

BERNARDO®

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03 | 2024

TURNING LATHES



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V-constant
Master 380
Master 400
Master 400 Top
Master 410 Pro
Master 410 Pro Vario
Compact 400
Compact 400 V

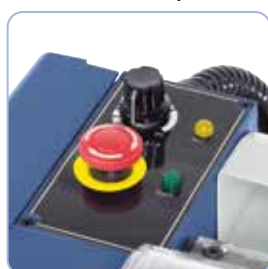
Bench lathe

Hobby 140

The precise bench lathe Hobby 140 is ideal for machining of smaller workpieces. The compact construction provides vibration-free environments for precision mechanic, watchmaker, goldsmith and at the model making.

- Electronic, stepless adjustable drive by direct current motor
- Wide speed range from 0 - 3800 rpm
- Optional accessories increase application area
- Compact, small construction, optimal price-performance ratio
- Ideal for working with steel, non-ferrous metals and plastics
- High-quality ball bearings guarantees high concentricity
- Inductive hardened and polished machine bed
- Guides adjustable by gibs
- Small and compact construction eliminates most vibrations

Best price



Stepless speed adjustment of the main spindle by potentiometer.



Optional available: feed for z-axis



Drill chuck and live center optional available.



Steady rest with bronze guidings (Art. no. 03-1535)



Only one speed range, no adjustment necessary



Horizontal slider (Art. no. 03-1534)



Vario-drive

Standard accessories:

- 3-jaw chuck 50 mm
- Chuck guard
- Tool holder
- Live center cylindrical
- Splash guard
- Tools

Optional accessories

	Art. no.	excl. VAT
Feed longitudinal (for z-axis)	03-1533	
Horizontal slider	03-1534	
Steady rest	03-1535	
Live center	03-1536	
Drill chuck	03-1537	
Carbide tipped tool set 8 mm, 11 pcs.	44-1011	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand	56-1000	

Technical data	Hobby 140
Distance between centers	140 mm
Center height	55 mm
Swing over bed	110 mm
Swing over cross slide	60 mm
Spindle bore	10 mm
Speed range, stepless	0 - 3800 rpm
Travel of tailstock sleeve	25 mm
Taper of tailstock sleeve	cylindrical Ø 10 mm
Motor power output S ₁ 100%	0,15 kW / 230 V
Motor power input S ₆ 40%	0,20 kW / 230 V
Machine dimension (W x D x H)	420 x 300 x 230 mm
Weight approx.	14 kg
Art. no.	03-0999

Bench lathe

Hobby 250

The Hobby 250 is a small and compact table lathe featuring high precision and the possibility of facing, straight turning and thread cutting, making this model ideal for craftsmen and amateurs.

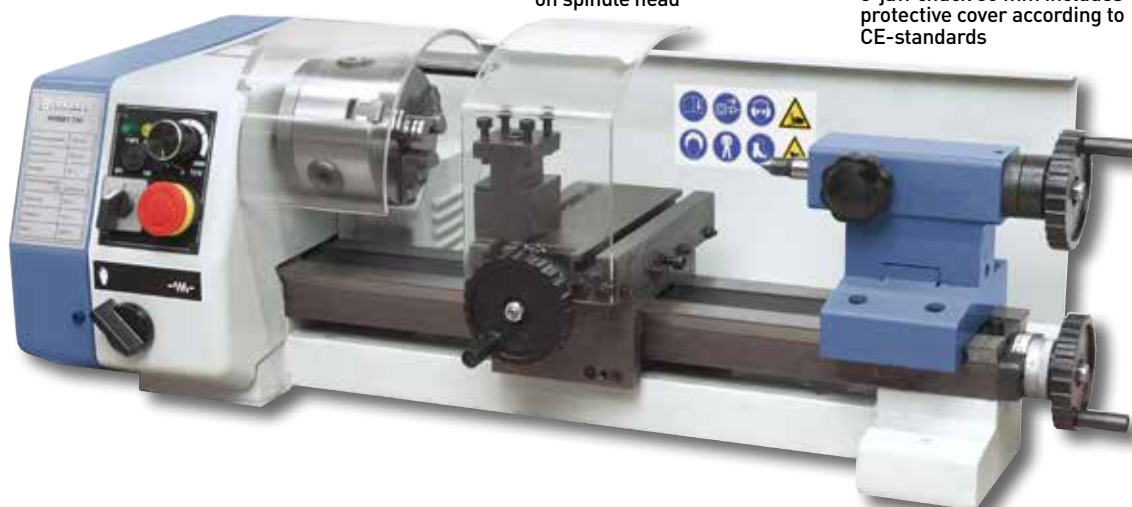
- Stepless speed adjustment of main spindle
- User-friendly arrangement of control elements
- Quick and easy speed change
- Inductive hardened and polished machine bed
- Switch for manual or automatic longitudinal feed
- Guides adjustable by gibs
- Attractive price-to-performance ratio
- Spindle bedded with 2 adjustable taper roller bearings
- Small and compact construction eliminates most vibrations
- High quality ball bearings ensure high spindle concentricity ($\leq 0,015$ mm)



User-friendly operation, control elements centrally positioned on spindle head



3-jaw chuck 80 mm includes protective cover according to CE-standards



Standard accessories:

- 3-jaw chuck 80 mm
- Chuck guard
- 2-way tool post holder
- Live centre MT 1
- Splash guard
- Tools



Vertical milling support with mounted ball head cutting set (optional)



Optionally available: Vertical milling support with surface of 64 x 130 mm.



Optional change gears for thread cutting (0,5 - 1,25 mm)

Best Price

Technical data

Hobby 250

Distance between centers	250 mm
Center height	75 mm
Swing over bed	150 mm
Spindle bore	10 mm
Taper at spindle bore	MT 2
Speed range, stepless	100 - 2000 rpm
Metric thread*	(5) 0,5 - 1,25 mm
Inch thread*	(5) 16 - 24 threads/1"
Travel of tailstock sleeve	25 mm
Taper of tailstock sleeve	MT 1
Motor power output S ₁ 100%	0,15 kW / 230 V
Motor power input S ₆ 40%	0,20 kW / 230 V
Machine dimension (W x D x H)	650 x 350 x 220 mm
Weight approx.	23 kg
Art. no.	03-1000

* Option

Optional accessories:

4-jaw independent chuck 80 mm	Art. no.	21-2501	excl. VAT
Steady rest		03-1500	
Follow rest		03-1505	
Vertical slider		03-1510	
Horizontal slider		03-1515	
Cutting kits thread (metric)		03-1520	
Cutting kits thread (inch)		03-1521	
Collet set 3 - 6 mm (4 pcs.)		03-1525	
Ball head cutting set		03-1530	
Economy live center Typ PC - MT 1		22-1000	
Quick change set model Bernardo size 10, incl. 4 tips		23-1055B	
Costs of assembly for quick change set**		23-1092	
Turning and facing holder size 10		23-1058B	
Carbide tipped tool set 8 mm, 11 pcs.		44-1011	
Stand		56-1000	

Mini lathe

Proficenter 250

The Proficenter 250 mini lathe comes complete with a milling attachment. Its compact construction ensures a smooth run and guarantees precise results, making this model particularly attractive for ambitious model-makers.

- Electronic, stepless adjustable drive
- High-quality ball bearings guarantees high concentricity
- User-friendly arranged control elements
- Straightforward speed change
- Inductive hardened, polished machine bed
- Leadscrew features automatic feed
- Milling attachment includes precise fine adjustment
- Spindle with clamp device ensures accurate results



Machine controls, such as speed settings, feed adjustment, switches etc. are clearly arranged on headstock.

Milling attachment for drilling, milling and countersink comes standard.



Vario-Drive



Technical data

Proficenter 250

Turning lathe

Distance between centers	250 mm
Center height	75 mm
Swing over bed	150 mm
Spindle bore	10 mm
Speed range, stepless	100 - 2000 rpm
Metric thread*	(5) 0,5 - 1,25 mm
Inch thread*	(5) 16 - 24 threads/1"
Travel of tailstock sleeve	25 mm
Taper of tailstock sleeve	MT 1
Motor power output S ₁ 100%	0,15 kW / 230 V
Motor power input S ₆ 40%	0,20 kW / 230 V

Milling attachment

Drilling capacity in steel	10 mm
Face mill capacity max.	20 mm
Distance spindle to column	105 mm
Spindle speed, stepless	100 - 1000 / 100 - 2000 rpm
Spindle taper	MT 2
Spindle stroke	30 mm
Mill head height adjustable	130 mm
Motor power output S ₁ 100%	0,15 kW / 230 V
Motor power input S ₆ 40%	0,25 kW / 230 V
Machine dimension (W x D x H)	650 x 350 x 520 mm
Weight approx.	39 kg
Art. no.	03-1005

* Option

Standard accessories:

- 3-jaw chuck 80 mm
- Chuck cover
- 2-way tool post holder
- Live center MT 1
- Drill chuck 1 - 10 mm / B 12
- Tools



Tailstock with depth scale and optional available live center MT 1

Optional accessories:

4-jaw independent chuck 80 mm	Art. no.	excl. VAT
Steady rest	21-2501	
Follow rest	03-1500	
Horizontal slider	03-1505	
Cutting kits thread (metric)	03-1515	
Cutting kits thread (inch)	03-1520	
Collet set 3 - 6 mm (4 pcs.)	03-1521	
Economy live center Typ PC - MT 1	03-1525	
Keyless drill chuck 1 - 10 mm / B 12	22-1000	
Mill chuck set ER 16, MT 2, 3 - 10 mm, 7 pcs.	24-1080	
Mill chuck set ER 25, MT 2, 4 - 16 mm, 8 pcs.	26-1001	
2 flute HSS end mill set, 3 - 10 mm, 6 pcs.	26-1002	
Stand	42-1000	
	56-1000	

Bench lathe

Hobby 300 Vario

The Hobby 300 Vario table lathe comes complete with a stepless speed adjustment and digital display for convenient readout. The attractive price-to-performance ratio makes this model ideal for model makers and amateurs.

- High-quality ball bearings guarantees high spindle concentricity (≤ 0.015 mm)
- Various applications: thread cutting, longitudinal, face and internal turning etc.
- Stepless speed adjustment of main spindle
- User-friendly arrangement of control elements
- Leadscrew features automatic longitudinal feed
- Guides adjustable by gibs
- Compact, small construction, optimal price-performance ratio
- Machine bed inductive hardened and polished
- Adjustable tailstock allows taper turning



Now with quick change tool holder

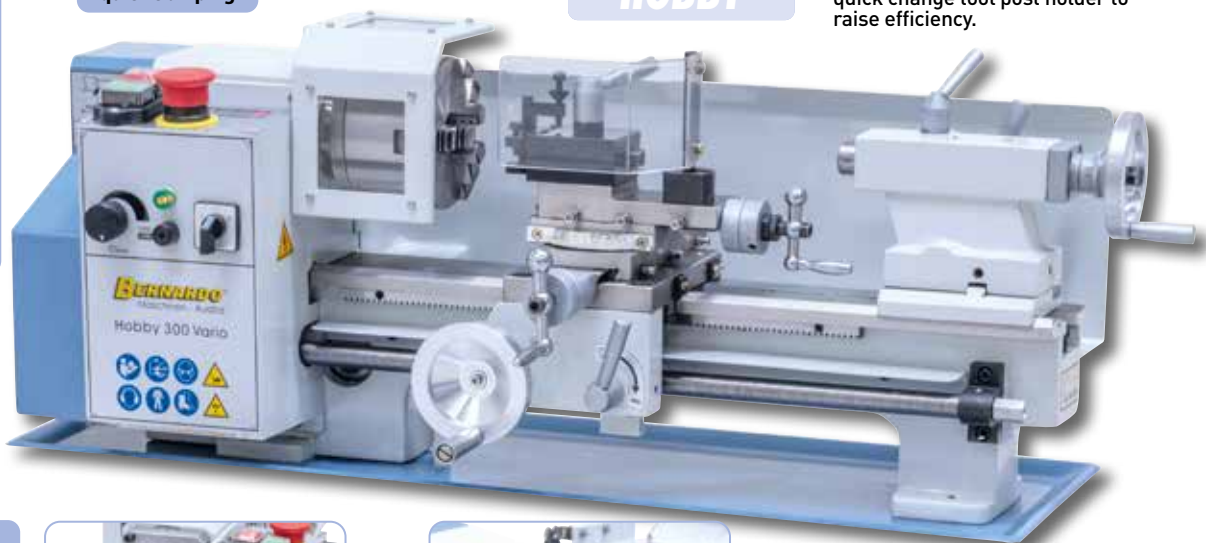


The machine is equipped with a quick change tool post holder to raise efficiency.



The steplessly adjustable spindle is serially equipped with left and right turning.

Tailstock with quick clamping



NEW

Standard accessories:

- 3-jaw chuck 100 mm
- Chuck guard
- Quick change tool holder with 4 inserts
- Change gears
- Splash guard
- Digital speed display
- Hand wheels in metal execution
- Dead centre
- Tools



Change gears for thread cutting included as standard equipment.



Independent chuck 100 mm for clamping of irregular shaped workpieces (optional).



Using the rests allows easy processing of long workpieces.

Technical data	Hobby 300 Vario
Distance between centers	300 mm
Center height	90 mm
Swing over bed	180 mm
Swing over cross slide	110 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1100 / 120 - 2500 rpm
Longitudinal feed	0,1 / 0,2 mm/rev.
Metric thread	(9) 0,5 - 2,5 mm
Travel of tailstock sleeve	60 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,40 kW
Motor power input S ₆ 40%	0,55 kW
Machine dimension (W x D x H)*	820 x 310 x 300 mm
Weight approx.	37 kg
Art. no.	03-1024

* without stand

Optional accessories:	Art. no.	excl. VAT
4-jaw independent chuck 100 mm	03-15573	
Steady rest	03-15570	
Follow rest	03-15571	
Vertical slider	03-15574	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with 7 interchangeable tips SMA - MT 2	22-1040	
Ball nose live center MT 2 / 60 mm	22-1050	
Turning and facing holder	23-10460	
Boring bar holder	23-10461	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand D1	56-1050	
Stand D1 Deluxe	56-10500	

Bench lathe

Hobby 350 Vario

The Hobby 350 Vario bench lathe - compared to the Hobby 300 Vario - features a 50 mm greater distance between centres and a slightly more powerful motor. To reduce non-productive time the machine is also available with a 2-axis digital readout.

- High-quality ball bearings guarantees high spindle concentricity (≤ 0.015 mm)
- Various applications: thread cutting, longitudinal, face and internal turning etc.
- Ideal for working with steel, non-ferrous metals and plastics
- Stepless speed adjustment of main spindle
- User-friendly arrangement of control elements
- Leadscrew features automatic longitudinal feed
- Guides adjustable by gibs
- Compact, small construction, optimal price-performance ratio
- Machine bed inductive hardened and polished
- Adjustable tailstock allows taper turning



Electronic, stepless speed setting - easy readout via digital display.

2-axis digital readout Bernardo DT 40 comes standard to guarantee high work comfort and more accuracy. (Art. no. 03-10241)

NEW



Standard accessories:

- 2-axis digital readout DT 40 (Art. no. 03-10241)
- 3-jaw chuck 100 mm
- Chuck guard
- Quick change tool holder with 4 inserts
- Change gears
- Splash guard
- Digital speed display
- Hand wheels in metal execution
- Dead centre
- Tools



Add on a vertical milling support for additional applications.

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Technical data

Hobby 350 Vario

Distance between centers	350 mm
Center height	90 mm
Swing over bed	180 mm
Swing over cross slide	110 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1100 / 120 - 2500 rpm
Longitudinal feed	0,1 / 0,2 mm/rev
Metric thread	(9) 0,5 - 2,5 mm
Travel of tailstock sleeve	60 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,50 kW
Motor power input S ₆ 40%	0,70 kW
Machine dimension (W x D x H)*	880 x 330 x 300 mm
Weight approx.	38 kg
Art. no.	03-10240
	03-10241**

* without stand

** incl. digital readout

Optional accessories:

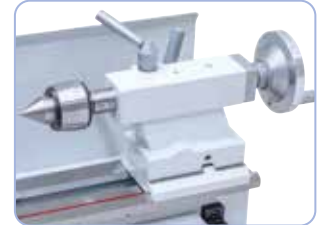
	Art. no.	excl. VAT
4-jaw independent chuck 100 mm	03-15573	
Steady rest	03-15570	
Follow rest	03-15571	
Vertical slider	03-15574	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with		
7 interchangeable tips SMA - MT 2	22-1040	
Ball nose live center MT 2 / 60 mm	22-1050	
Turning and facing holder	23-10460	
Boring bar holder	23-10461	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand D1	56-1050	
Stand D1 Deluxe	56-10500	

Bench lathe

Hobby 300 Top

The Hobby 300 Top table lathe features a brushless DC- motor, allowing smooth operation and a consistent spindle drive. The attractive price-benefit ratio makes this model ideal for model-makers and amateurs.

- DC-Motor allows ideal torque at low speed range
- High-quality bearings ensure high spindle concentricity (better than 0,015 mm)
- Ideal for working on steel, non-ferrous materials and plastics
- Serially equipped with leadscrew for thread cutting and automatic longitudinal feed
- Spindle bedded with 2 adjustable tapered roller bearings
- Powerful DC-Motor with drive of 450 W
- Change gears in metal execution for metric thread cutting comes standard
- Application range includes: thread cutting, longitudinal, face and internal turning etc.



Tailstock (MT 2) can be adjusted for taper turning.



A 100 mm independent chuck is optionally available for clamping of irregular shaped workpieces.

Brushless DC-motor

Equipped with metal hand wheels and metal change gears



NEW

Standard accessories:

- 3-jaw chuck 100 mm
- Chuck guard
- Quick change tool holder with 4 inserts
- Change gears out of steel
- Splash guard
- Digital speed display
- Hand wheels in metal execution
- Dead centre
- Tools



Complete with change gears in metal execution for thread cutting.



Add on a vertical milling support for additional applications.



Using the rests allows easy processing of long workpieces.

Technical data	Hobby 300 Top
Distance between centers	300 mm
Center height	90 mm
Swing over bed	180 mm
Swing over cross slide	110 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1100 / 120 - 2500 rpm
Longitudinal feed	0,1 / 0,2 mm/rev.
Metric thread	(9) 0,5 - 2,5 mm
Travel of tailstock sleeve	60 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,45 kW
Motor power input S ₆ 40%	0,60 kW
Machine dimension (W x D x H)*	820 x 310 x 300 mm
Weight approx.	37 kg
Art. no.	03-10242

* without stand

Optional accessories:	Art. no.	excl. VAT
4-jaw independent chuck 100 mm	03-15573	
Steady rest	03-15570	
Follow rest	03-15571	
Vertical slider	03-15574	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with 7 interchangeable tips SMA - MT 2	22-1040	
Ball nose live center MT 2 / 60 mm	22-1050	
Turning and facing holder	23-10460	
Boring bar holder	23-10461	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand D1	56-1050	
Stand D1 Deluxe	56-10500	

Bench lathe

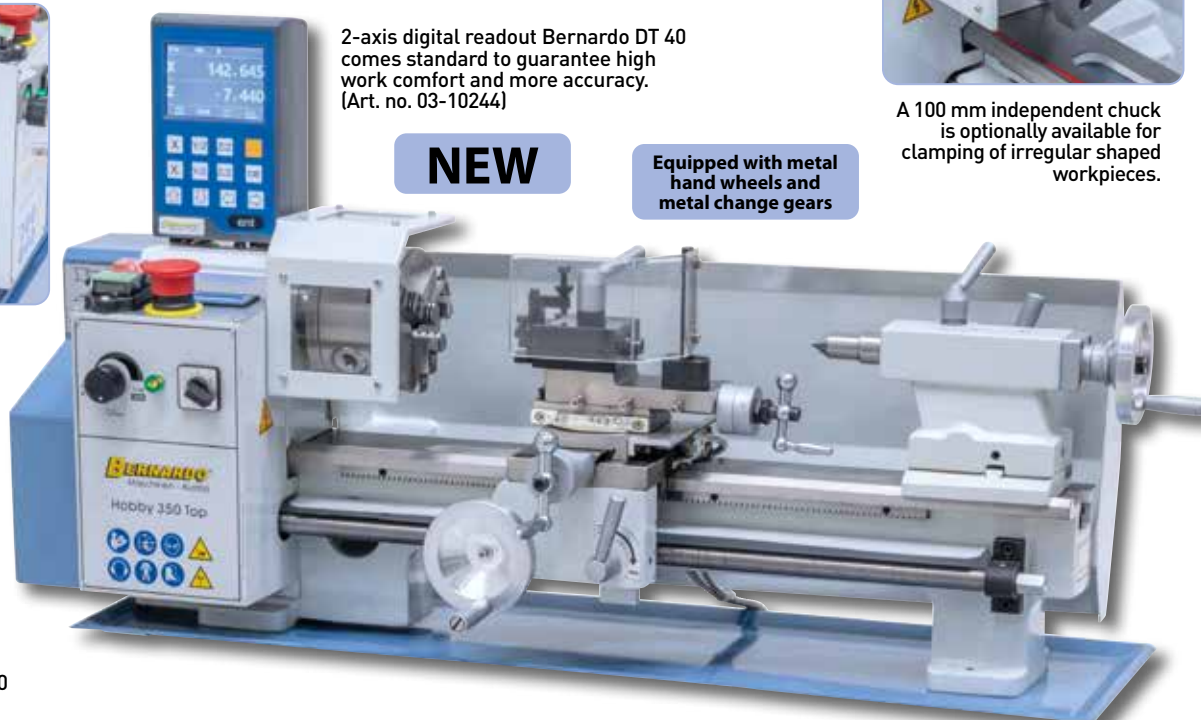
Hobby 350 Top

The Hobby 350 Top table lathe features a brushless DC- motor, allowing smooth operation and a consistent spindle drive. To reduce non-productive time the machine is also available with a 2-axis digital readout.

- DC-Motor allows ideal torque at low speed range
- High-quality bearings ensure high spindle concentricity (better than 0,015 mm)
- Ideal for working on steel, non-ferrous materials and plastics
- Serially equipped with leadscrew for thread cutting and automatic longitudinal feed
- Spindle bedded with 2 adjustable tapered roller bearings
- Powerful DC-Motor with drive of 450 W
- Change gears in metal execution for metric thread cutting comes standard
- Application range includes: thread cutting, longitudinal, face and internal turning etc.



Complete with change gears in metal execution for thread cutting.



2-axis digital readout Bernardo DT 40 comes standard to guarantee high work comfort and more accuracy. (Art. no. 03-10244)

NEW

Equipped with metal hand wheels and metal change gears



A 100 mm independent chuck is optionally available for clamping of irregular shaped workpieces.

Standard accessories:

- 2-axis digital readout DT 40 (Art. no. 03-10244)
- 3-jaw chuck 100 mm
- Chuck guard
- Quick change tool holder with 4 inserts
- Change gears out of steel
- Splash guard
- Digital speed display
- Hand wheels in metal execution
- Dead centre
- Tools



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Brushless DC-motor

Add on a vertical milling support for additional applications.

Technical data

Hobby 350 Top

Distance between centers	300 mm
Center height	90 mm
Swing over bed	180 mm
Swing over cross slide	110 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1100 / 120 - 2500 rpm
Longitudinal feed	0,1 / 0,2 mm/rev.
Metric thread	(9) 0,5 - 2,5 mm
Travel of tailstock sleeve	60 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,45 kW
Motor power input S ₆ 40%	0,60 kW
Machine dimension (W x D x H)*	880 x 320 x 310 mm
Weight approx.	38 kg
Art. no.	03-10243
	03-10244**

* without stand

** incl. digital readout

Optional accessories:

	Art. no.	excl. VAT
4-jaw independent chuck 100 mm	03-15573	
Steady rest	03-15570	
Follow rest	03-15571	
Vertical slider	03-15574	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with		
7 interchangeable tips SMA - MT 2	22-1040	
Ball nose live center MT 2 / 60 mm	22-1050	
Turning and facing holder	23-10460	
Boring bar holder	23-10461	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand D1	56-1050	
Stand D1 Deluxe	56-10500	

Bench lathes

Hobby 350 VD

The Hobby 350 VD bench lathe - compared to the Hobby 300 VD - features a 50 mm greater distance between centres, a convenient digital speed display and a slightly more powerful motor. The attractive price-benefit ratio makes this model ideal for model-makers and amateurs.

- Spindle concentricity guaranteed $\leq 0,015$ mm
- Digital readout for cross slide and top support come standard
- Optimal speed readout on digital display
- Ideal for working with steel, non-ferrous metals and plastics
- Various applications: thread cutting, longitudinal, face and internal turning etc.
- Powerful DC-Motor with 350 W drive power
- Change gears for metric thread cutting come standard
- Guides are adjustable via gibs
- Tailstock can be adjusted for taper turning

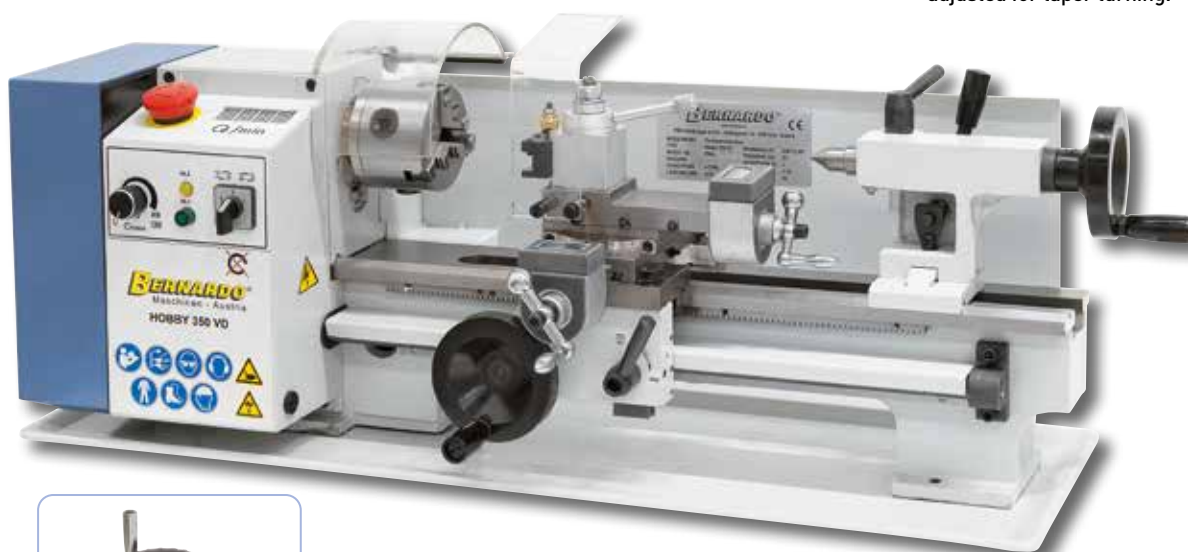


Tailstock (MT 2) can be adjusted for taper turning.

Now with quick change tool holder



Electronic, stepless speed setting - easy readout via digital display.



Standard accessories:

- 3-jaw chuck 80 mm
- Chuck guard
- Quick change tool holder size 5-4 with 4 inserts
- Change gears
- Splash guard
- Digital speed display
- Digital display for cross slide and top support
- Dead centre
- Tools



Add on a vertical milling support for additional applications.



Serially equipped with digital display to ensure precise feed and readout when turning.



Using the rests allows easy processing of long workpieces.

Technical data

Hobby 350 VD

Distance between centers	350 mm
Center height	90 mm
Swing over bed	180 mm
Swing over cross slide	110 mm
Spindle bore	21 mm
Taper at spindle bore	MT 3
Speed range, stepless	100 - 1200 / 100 - 3000 rpm
Longitudinal feed	0,1 / 0,2 mm/rev.
Metric thread	(10) 0,4 - 2,0 mm
Travel of tailstock sleeve	60 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,35 kW / 230 V
Motor power input S ₆ 40%	0,50 kW / 230 V
Machine dimension (W x D x H)*	770 x 300 x 310 mm
Weight approx.	44 kg
Art. no.	03-1026B

* without stand

Optional accessories:

	Art. no.	excl. VAT
4-jaw independent chuck 100 mm with flange	03-1540	
Face plate diam. 160 mm	03-1541	
Steady rest	03-1545	
Follow rest	03-1550	
Mill chuck set 4 - 16 mm, 8 pcs.	03-1551	
Mill attachment	03-1552	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with		
7 interchangeable tips SMA - MT 2	22-1040	
Ball nose live center MT 2 / 60 mm	22-1050	
Hand wheels in metal execution	03-1548	
Change gears, 9 pcs., in metal execution	03-1549	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand D1	56-1050	

Bench lathe

Hobby 350 VDM

The Hobby 350 VDM bench lathe - compared to the Hobby 350 VD - features metal handwheels for apron and tailstock as well as a 9 pcs./set change gears in metal execution for thread cutting. This model is very popular among ambitious model-makers.

- Change gears in metal execution for metric thread cutting comes standard
- Spindle concentricity guaranteed $\leq 0,015$ mm
- Digital readout for cross slide and top support come standard
- Optimal speed readout on digital display
- Ideal for working with steel, non-ferrous metals and plastics
- Various applications: thread cutting, longitudinal, face and internal turning etc.
- Powerful DC-Motor with 350 W drive power
- Guides are adjustable via gibs
- Tailstock can be adjusted for taper turning



Tailstock (MT 2) can be adjusted for taper turning.

Equipped with metal hand wheels and metal change gears

Now with quick change tool holder



Complete with change gears in metal execution for thread cutting.



Standard accessories:

- 3-jaw chuck 80 mm
- Chuck guard
- Quick change tool holder size 5-4 with 4 inserts
- Change gears out of steel
- Splash guard
- Digital speed display
- Digital display for cross slide and top support
- Dead centre
- Tools



Add on a vertical milling support for additional applications.



The machine is equipped with a quick change tool post holder to raise efficiency.



Using the rests allows easy processing of long workpieces.

Technical data

Hobby 350 VDM

Distance between centers	350 mm
Center height	90 mm
Swing over bed	180 mm
Swing over cross slide	110 mm
Spindle bore	21 mm
Taper at spindle bore	MT 3
Speed range, stepless	100 - 1200 / 100 - 3000 rpm
Longitudinal feed	0,1 / 0,2 mm/rev.
Metric thread	(10) 0,4 - 2,0 mm
Travel of tailstock sleeve	60 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,35 kW / 230 V
Motor power input S ₆ 40%	0,50 kW / 230 V
Machine dimension (W x D x H)*	770 x 300 x 310 mm
Weight approx.	44 kg
Art. no.	03-1029

* without stand

Optional accessories:

	Art. no.	excl. VAT
4-jaw independent chuck 100 mm with flange	03-1540	
Face plate diam. 160 mm	03-1541	
Steady rest	03-1545	
Follow rest	03-1550	
Mill chuck set 4 - 16 mm, 8 pcs.	03-1551	
Mill attachment	03-1552	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with		
7 interchangeable tips SMA - MT 2	22-1040	
Ball nose live center MT 2 / 60 mm	22-1050	
40 pos. tool post & holder set System Multifix size A, incl. 4 tips	23-1000	
Costs of assembly for quick change set**	23-1092	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand D1	56-1050	

Bench lathe

Hobby 400 Super

The Hobby 400 Super table lathe features a brushless DC- motor, allowing smooth operation and a consistent spindle drive. The attractive price-benefit ratio makes this model ideal for model-makers and amateurs.

- High-quality bearings ensure high spindle concentricity (better than 0,015 mm)
- Serially equipped with leadscrew for thread cutting and automatic longitudinal feed
- Ideal for working on steel, non-ferrous materials and plastics
- Change gears in metal execution for metric thread cutting comes standard
- Application range includes: thread cutting, longitudinal, face and internal turning etc.
- DC-Motor allows ideal torque at low speed range
- Spindle bedded with 2 adjustable tapered roller bearings
- Powerful DC-Motor with drive of 500 W
- Only 1 speed range, no adjustment necessary

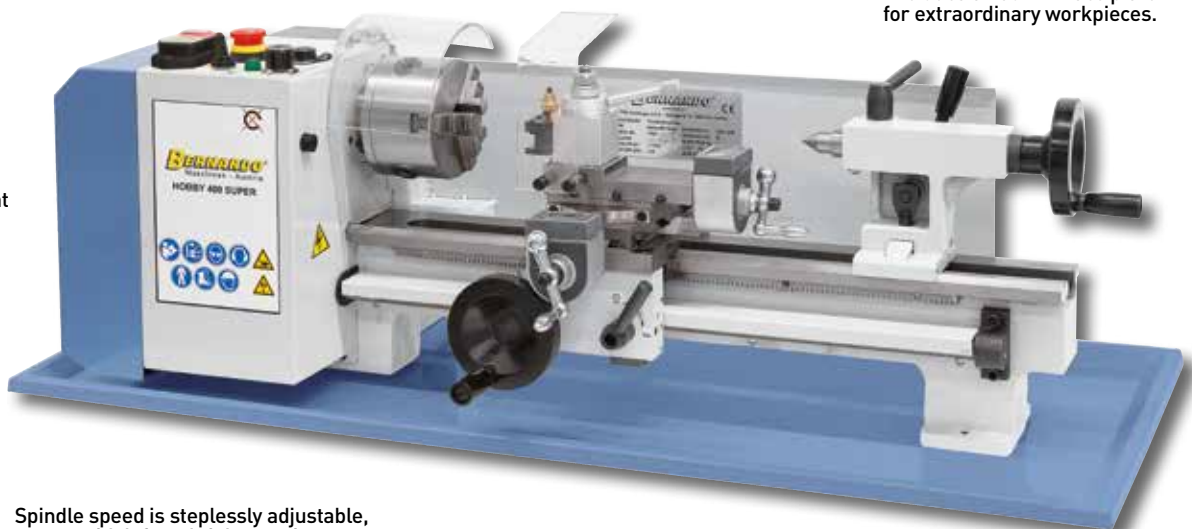


Now with quick change tool holder

Optional equipment also includes a 160 mm face plate for extraordinary workpieces.



For accurate speed adjustment the machine can be equipped with digital speed readout.



Spindle speed is steplessly adjustable, comes with left and right rotation.



Standard accessories:

- 3-jaw chuck 100 mm
- Chuck guard
- Quick change tool holder size 5-4 with 4 inserts
- Change gears
- Splash guard
- Dead centre
- Digital display for cross slide and top support
- Tools

Brushless DC-motor



3-jaw chuck 100 mm with hard inside and hard outside solid jaws as standard equipment.



Complete with change gears in metal execution for thread cutting.

Technical data

Hobby 400 Super

Distance between centers	400 mm
Center height	90 mm
Swing over bed	180 mm
Swing over cross slide	110 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	100 - 2500 rpm
Longitudinal feed	0,1 / 0,2 mm/rev.
Metric thread	(10) 0,4 - 2,0 mm
Travel of tailstock sleeve	55 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,50 kW / 230 V
Motor power input S ₆ 40%	0,70 kW / 230 V
Machine dimension (W x D x H)*	850 x 280 x 300 mm
Weight approx.	50 kg
Art. no.	03-1028B

* without stand

Optional accessories:

	Art. no.	excl. VAT
4-jaw independent chuck 100 mm with flange	03-1540	
Face plate diam. 160 mm	03-1541	
Steady rest	03-1545	
Follow rest	03-1550	
Digital speed indication	03-1555	
Mill chuck set 4 - 16 mm, 8 pcs.	03-1551	
Mill attachment	03-1552	
Handwheels in metal execution	03-1548	
Medium duty live center with		
7 interchangeable tips SMA - MT 2	22-1040	
Indexable carbide turning tool set, 8 mm, 5 pcs.	44-2012	
Carbide turning tool set 8 mm, 6 pcs. incl. boring bar	44-2050	
Multipurpose indexable turning tool set, 8 mm, 7 pcs.	44-3075	
Stand	56-1065	

Bench lathe

Profi 300 V

This is our top model in the turning area with 300 mm distance between the centres. The stepless speed adjustment makes this machine very popular for precision mechanics as well as model-makers.

- High-quality ball bearings ensure high spindle concentricity (≤ 0.009 mm)
- Stepless speed adjustment
- Control elements are clearly arranged and accessible
- Machine bed inductive hardened and polished
- 3 freely adjustable longitudinal feeds
- Adjustable tailstock for taper turning
- Guideways adjustable via gibs
- Serially equipped with change gears for thread cutting

Precise and smoothly-running apron with top support, long life span due to adjustable gibs.



Steady rest with bronze guides to stabilize long workpieces



Independent chuck 100 mm ideal for clamping of asymmetric workpieces (optional)



All control elements as well as all tables are clearly arranged on the spindle head.



A live center type SMA with 7 interchangeable tips for universal applications is optionally available.



Standard accessories:

- 2-axis position display DT 30 (Art. no. 03-1035B)
- 3-jaw chuck DK11-100 mm
- 4-way tool post holder
- 2 dead center
- Change gears
- Chuck guard
- Splash guard
- Chip tray
- Digital speed indication
- Tools

Technical data

Profi 300 V

Distance between centers	300 mm
Center height	90 mm
Swing over bed	180 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1250 / 100 - 2500 rpm
Longitudinal feed	(3) 0,083 - 0,159 mm/rev.
Metric thread	(14) 0,3 - 3 mm
Inch thread	(10) 10 - 44 threads/1"
Travel of tailstock sleeve	60 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,50 kW / 230 V
Motor power input S ₆ 40%	0,70 kW / 230 V
Machine dimension (W x D x H)*	740 x 390 x 370 mm
Weight approx.	60 kg
Art. no.	03-1035
	03-1035B**

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-100 mm DIN 6350	21-0801	
4-jaw independent chuck K72-100 mm DIN 6350	21-5001	
Face plate 170 mm	03-1565	
Flange diam. 100 mm	03-1560	
Steady rest	03-1570	
Follow rest	03-1575	
Economy live center Typ PC - MT 2	22-1001	
Ball nose live center MT 2 - 60 mm	22-1050	
40 pos. tool post & holder set System Multifix size A, incl. 4 tips	23-1000	
Quick change set model Bernardo size 10, incl. 4 tips	23-1055B	
Costs of assembly for quick change set**	23-1092	
Multipurpose indexable turning tool set, 10 mm, 7 pcs.	44-3076	
Indexable carbide turning tool set, 10 mm, 5 pcs.	44-2013	
Stand D1	56-1050	
Stand D1 Deluxe	56-10500	

* without stand

** incl. position display

Bench lathe

Profi 400 V

The Profi 400 V table lathe comes complete with a stepless speed adjustment and digital display for convenient readout. The attractive price-to-performance ratio makes this model ideal for model makers and amateurs.

- Highly suitable for processing steel, non-ferrous materials or plastics
- Wide range of applications, such as face turning, straight turning, thread cutting etc.
- Change gears for metric thread cutting come standard
- High-quality ball bearing ensure concentricity of spindle nose (better than 0.009 mm)
- User-friendly arrangement of controls
- Complete with leadscrew for thread cutting and the automatic longitudinal feed
- Compact construction, ideal price-to-performance ratio
- Electronic, stepless speed setting allow ideal adjustment to each workpiece



Main spindle bearing in P5 quality

To reduce downtime significantly, the machine can be equipped with a quick change set model BERNARDO size 10.



Vario-drive

Electronic, stepless speed setting - easy readout via digital display.

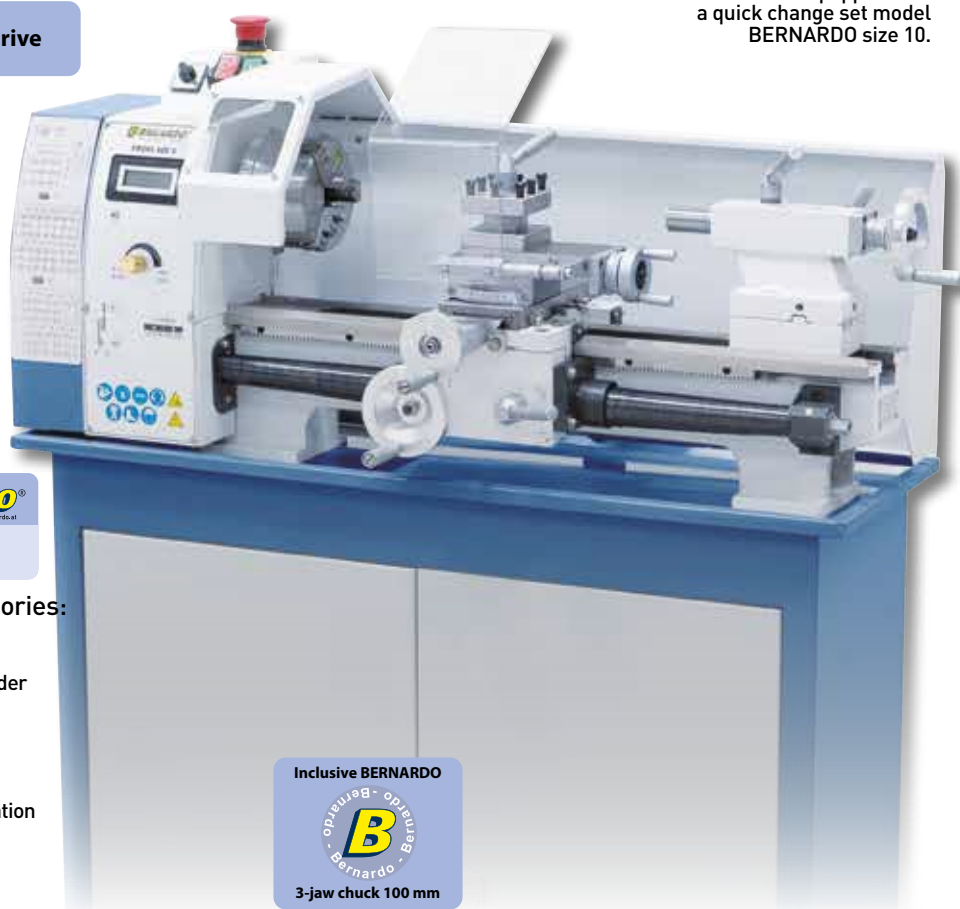


Face plate (170 mm) to clamp irregular shaped workpieces available at request.



Standard accessories:

- 3-jaw chuck DK 11-100 mm
- 4-way tool post holder
- Dead center
- Change gears
- Chuck guard
- Splash guard
- Chip tray
- Digital speed indication
- Tools



Inclusive BERNARDO



Technical data	Profi 400 V
Distance between centers	400 mm
Center height	100 mm
Swing over bed	200 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1250 / 100 - 2500 rpm
Longitudinal feed	(3) 0,089 - 0,198 mm/rev.
Metric thread	(14) 0,3 - 3 mm
Inch thread	(10) 10 - 44 threads/1"
Travel of tailstock sleeve	50 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,60 kW / 230 V
Motor power input S ₆ 40%	0,80 kW / 230 V
Machine dimension (W x D x H)*	930 x 400 x 380 mm
Weight approx.	65 kg
Art. no.	03-1036

Optional accessories:

4-jaw chuck DK12-100 mm DIN 6350	Art. no.	21-0801	excl. VAT
4-jaw independent chuck K72-100 mm DIN 6350		21-5001	
Face plate 170 mm		03-1577	
Flange diam. 100 mm		03-1576	
Steady rest		03-1578	
Follow rest		03-1579	
Economy live center Typ PC - MT 2		22-1001	
Medium duty live center with			
7 interchangeable tips SMA - MT 2		22-1040	
Quick change set model Bernardo size 10, incl. 4 tips		23-1055B	
Costs of assembly for quick change set**		23-1092	
Multipurpose indexable turning tool set, 10 mm, 7 pcs.		44-3076	
Indexable carbide turning tool set, 10 mm, 5 pcs.		44-2013	
Carbide turning tool set 10 mm, 6 pcs. incl. boring bar		44-2051	
Stand		56-1068	
Stand Deluxe		56-10680	

* without stand

Bench lathe

Profi 400 V

The Profi 400 V table lathe comes complete with a stepless speed adjustment and digital display for convenient readout. The attractive price-to-performance ratio makes this model ideal for model makers and amateurs.

- Highly suitable for processing steel, non-ferrous materials or plastics
- Wide range of applications, such as face turning, straight turning, thread cutting etc.
- Change gears for metric thread cutting come standard
- High-quality ball bearing ensure concentricity of spindle nose (better than 0.009 mm)
- User-friendly arrangement of controls
- Complete with leadscrew for thread cutting and the automatic longitudinal feed
- Compact construction, ideal price-to-performance ratio
- Electronic, stepless speed setting allow ideal adjustment to each workpiece



Main spindle bearing in P5 quality

To reduce downtime significantly, the machine can be equipped with a quick change set model BERNARDO size 10.



Complete with change gears for thread cutting.

Vario-drive

Inclusive BERNARDO

3-jaw chuck 100 mm

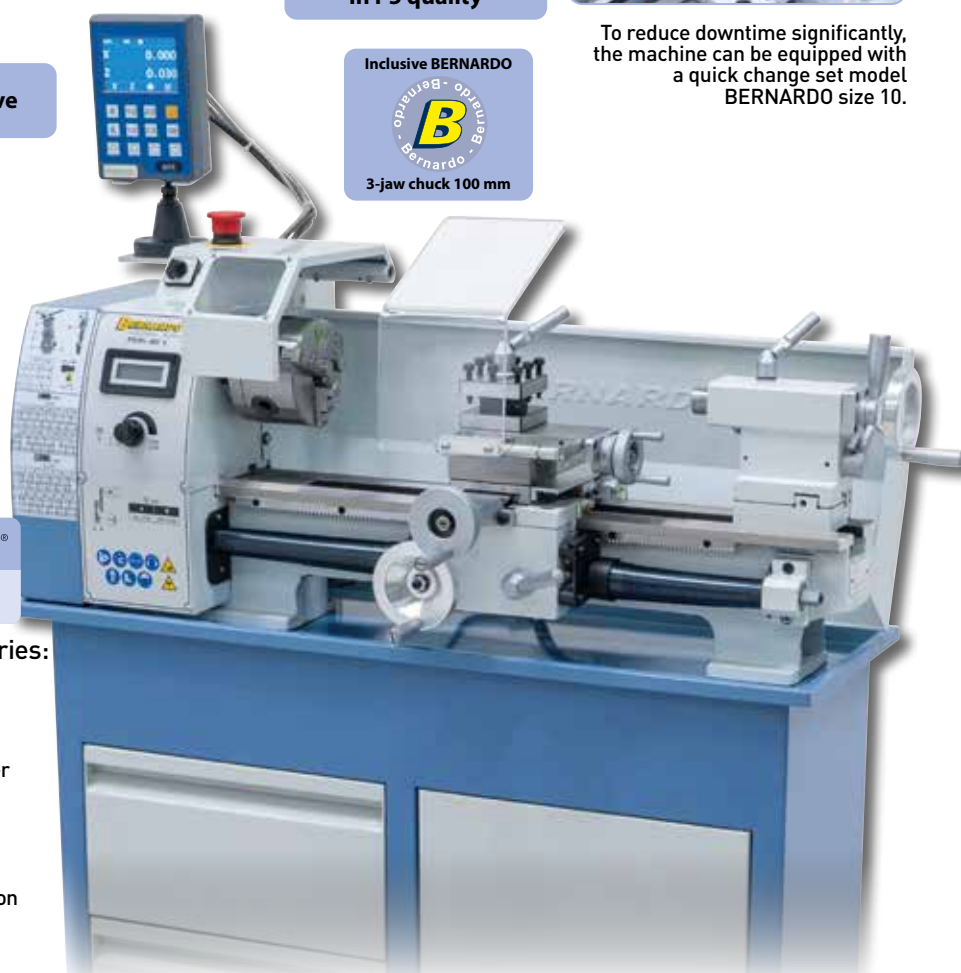


Face plate (170 mm) to clamp irregular shaped workpieces available at request.

BERNARDO
HOBBY

Standard accessories:

- 2-axis digital readout DT 40
- 3-jaw chuck DK 11-100 mm
- 4-way tool post holder
- Dead center
- Change gears
- Chuck guard
- Splash guard
- Chip tray
- Digital speed indication
- Tools



Technical data	Profi 400 V
Distance between centers	400 mm
Center height	100 mm
Swing over bed	200 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1250 / 100 - 2500 rpm
Longitudinal feed	(3) 0,089 - 0,198 mm/rev.
Metric thread	(14) 0,3 - 3 mm
Inch thread	(10) 10 - 44 threads/1"
Travel of tailstock sleeve	50 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,60 kW / 230 V
Motor power input S ₆ 40%	0,80 kW / 230 V
Machine dimension (W x D x H)*	930 x 400 x 380 mm
Weight approx.	65 kg
Art. no.	03-10360

Optional accessories:	Art. no.	excl. VAT
4-jaw chuck DK12-100 mm DIN 6350	21-0801	
4-jaw independent chuck K72-100 mm DIN 6350	21-5001	
Face plate 170 mm	03-1577	
Flange diam. 100 mm	03-1576	
Steady rest	03-1578	
Follow rest	03-1579	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with		
7 interchangeable tips SMA - MT 2	22-1040	
Quick change set model Bernardo size 10, incl. 4 tips	23-1055B	
Costs of assembly for quick change set**	23-1092	
Multipurpose indexable turning tool set, 10 mm, 7 pcs.	44-3076	
Indexable carbide turning tool set, 10 mm, 5 pcs.	44-2013	
Carbide turning tool set 10 mm, 6 pcs. incl. boring bar	44-2051	
Stand	56-1068	
Stand Deluxe	56-10680	

* without stand

Bench lathe

Profi 400 G

In contrast to the Profi 400 V the Profi 400 G bench lathe features a reduction gearing, allowing speed setting without having to change pulleys. The digital display allows for convenient and quick readout of set speed.

- Comes complete with 2 gear settings and electronic stepless speed adjustment
- Strongly reinforced machine bed featuring induction-hardened, polished guide
- Ideal for processing of steel, non-ferrous metals and plastics
- Universal in use: longitudinal turning, facing, profiling, thread cutting etc.
- Change gears for cutting of metric threads are part of the standard accessories
- Main spindle features adjustable tapered roller bearings in P5 quality
- User-friendly arrangement of control elements on gear head
- Tailstock features single-lever clamping, adjustable for taper turning
- V-ledges allow for adjustment of bed way guides



Tailstock featuring single lever clamping can be adjusted for taper turning. Live center available on request.



BERNARDO
HOBBY

Vario-drive

Convenient pre-selection of gears via reduction gearing, potentiometer allows for speed adjustment.



Standard accessories:

- 2-axis digital readout DT 40 (Art. no. 03-1038)
- 3-jaw chuck DK 11-100 mm
- 4-way tool post holder
- Dead centers
- Change gears
- Chuck guard
- Splash guard
- Chip tray
- Digital speed indication
- Tools

Hardened main spindle, precision taper roll bearings allow for high concentricity of spindle nose (≤ 0.009 mm).



Inclusive BERNARDO
3-jaw chuck 100 mm

Inclusive reduction gear,
no belt change necessary

Technical data	Profi 400 G
Distance between centers	400 mm
Center height	105 mm
Swing over bed	210 mm
Spindle bore	21 mm
Taper at spindle bore	MT 3
Speed range, stepless	50 - 1250 / 100 - 2500 rpm
Longitudinal feed	(3) 0,089 - 0,198 mm/rev.
Metric thread	(15) 0,3 - 3 mm
Inch thread	(12) 10 - 44 threads/1"
Travel of tailstock sleeve	55 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,60 kW / 230 V
Motor power input S ₆ 40%	0,80 kW / 230 V
Machine dimension (W x D x H)*	930 x 400 x 380 mm
Weight approx.	60 kg
Art. no.	03-1037
	03-1038**

Optional accessories	Art. no.	excl. VAT
4-jaw chuck DK12-100 mm according DIN 6350	21-0801	
4-jaw independent chuck K72-100 mm according DIN 6350	21-5001	
Face plate 170 mm	03-1577	
Flange 100 mm	03-1576	
Steady rest	03-1578	
Follow rest	03-1579	
Economy live center Typ PC - MT 2	22-1001	
Medium duty live center with		
7 interchangeable tips SMA - MT 2	22-1040	
4 station revolving tailstock turret MT 2 incl. inserts	22-1069	
Quick change set model Bernardo size 10, incl. 4 tips	23-1055B	
Costs of assembly for quick change set**	23-1092	
Carbide turning tool set 10 mm, 6 pcs. incl. boring bar	44-2051	
Indexable carbide turning tool set, 10 mm, 5 pcs.	44-2013	
Multipurpose indexable turning tool set, 10 mm, 7 pcs.	44-3076	
Stand	56-1068	
Stand Deluxe	56-10680	

* without stand
** incl. digital readout

Precision lathes

Profi 450 S Profi 450 S Vario

- Electronic, stepless speed setting allow ideal adjustment to each workpiece (Profi 450 S Vario)
- Complete with leadscrew for thread cutting and the automatic longitudinal feed
- Solid machine bed with inductively hardened and polished guides
- High-quality tapered roller bearings ensure high concentricity of spindle nose ($\leq 0.009\text{mm}$)
- Tailstock can be adjusted for taper turning
- User-friendly arrangement of control elements
- Guides adjustable via gibs
- Powerful motor for high torque, speed range 100 - 2200 rpm (Profi 450 S Vario)
- Highly suitable for processing steel, non-ferrous materials or plastics
- Wide range of applications: precision mechanics, training and education, etc.



3-jaw chuck 125 mm with hard inside and hard outside solid jaws as standard equipment.



All control elements as well as all tables are clearly arranged on the spindle head.



Ball nose live center 60 mm, ideal for clamping of pipes and hollow parts. (optional)



Change gears for thread cutting included as standard equipment.



Technical data

	Profi 450 S	Profi 450 S Vario
Distance between centers	450 mm	450 mm
Center height	115 mm	115 mm
Swing over bed	230 mm	230 mm
Bed width	135 mm	135 mm
Spindle bore	20 mm	20 mm
Taper at spindle bore	MK 3	MK 3
Speed range	(6) 125 - 2000 rpm	Stepless, 100 - 1100 rpm 200 - 2200 rpm
Longitudinal feed	(2) 0,1 - 0,2 mm/rev.	(2) 0,1 / 0,2 mm/rev.
Metric thread	(14) 0,4 - 3,5 mm	(14) 0,4 - 3,5 mm
Inch thread	(12) 8 - 44 threads/1"	(12) 8 - 44 threads/1"
Travel of tailstock sleeve	60 mm	60 mm
Taper of tailstock sleeve	MT 2	MT 2
Motor power output S ₁ 100%	0,90 kW / 230 V	0,90 kW (230 V)
Motor power input S ₆ 40%	1,35 kW / 230 V	1,35 kW (230 V)
Machine dimension (W x D x H)*	1000 x 580 x 500 mm	1000 x 580 x 500 mm
Weight approx.	112 kg	112 kg
Art. no.	03-1045	03-1046 03-1048**

Standard accessories:

- 2-axis digital readout DT 40 (Art. no. 03-1048)
- 3-jaw chuck 125 mm
- Flange 125 mm
- Cross slide with top support
- Digital speed display (Profi 450 S Vario)
- Dead centers
- Change gears
- 4-way tool post holder
- Chuck guard
- Splash guard
- Leadscrew cover
- Tools

* without stand

** incl. digital readout

The compact precision lathe Profi 450 S / Profi 450 S Vario impresses with its modern design and the powerful drive motor for high torque. Due to the convincing price-performance ratio, this model is ideal for model builders and hobby do-it-yourselfers.

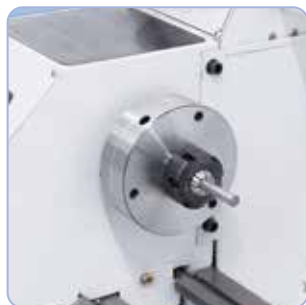
Profi 450 S Profi 450 S Vario



Electronic, stepless speed adjustment – easy readout on digital display.



Machine can be equipped with revolving tailstock turret for economic operating



Vario-drive

Profi 450 S Vario

The collet chuck ER 25 guarantees high concentricity when clamping workpieces, clamping range 1 - 16 mm.



Precise and smoothly-running apron with top support, long life span due to adjustable gibs.

Best price

High spindle concentricity ≤ 0.009 mm

Digital speed indication

Profi 450 S Vario

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-125 mm according DIN 6350	21-0802	
Soft solid jaws DSJ-DK12-125	21-0865	
Independent chuck K72-125 mm according DIN 6350	21-5002	
Flange 125 mm	03-1582	
Face plate diam. 170 mm	03-1583	
Follow rest	03-1580	
Steady rest	03-1581	
Economy live center Typ PC - MT 2	22-1001	

Optional accessories:

	Art. no.	excl. VAT
4 station revolving tailstock turret MT 2 incl. inserts	22-1069	
Quick change set model Bernardo size 10, incl. 4 tips	23-1055B	
Costs of assembly for quick change set**	23-1092	
Collet chuck ER 25 - D72	22-1082	
Collet set, 2 - 16 mm, 15 pcs.	26-1022	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
Stand Deluxe	56-1084	

Lathe with gear box

Hobby 500

- Control gear allows easy and quick speed change
- Machine bed inductive hardened and polished
- Guideways adjustable via gibs
- Optimal price-performance-ratio
- Very handy machine with leadscrew for thread cutting
- Spindle bedded with 2 adjustable precision ball bearings
- Tailstock can be adjusted for taper turning
- Protective switch with undervoltage release
- Solid and small construction

The control gear mounted on the head stock allows easy and quick speed change



3-jaw chuck 100 mm with hard inside and hard outside solid jaws as standard equipment.



Smooth-running, precise apron with top support – adjustable gibs allow long life span.



No belt change necessary

Technical data

Hobby 500

Distance between centers	500 mm
Center height	110 mm
Swing over bed	220 mm
Spindle bore	20 mm
Taper at spindle bore	MT 3
Speed range	140 - 1710 rpm, 6 steps
Longitudinal feed	(4) 0,05 - 0,2 mm/rev.
Metric thread	(11) 0,4 - 3 mm
Inch thread	(11) 8 - 28 threads/1"
Travel of tailstock sleeve	45 mm
Taper of tailstock sleeve	MT 2
Motor power output S ₁ 100%	0,55 kW / 230 V or 400 V
Motor power input S ₆ 40%	0,80 kW / 230 V or 400 V
Machine dimension (W x D x H)*	1150 x 480 x 420 mm
Weight approx.	130 kg
Art. no.	03-1070 (230 V) 03-1075 (400 V) 03-1071 (230 V)** 03-1076 (400 V)**

* without stand

** incl. position display

Standard accessories:

- 2-axis digital readout DT 40 Art. no. 03-1071 / 03-1076)
- 3-jaw chuck 100 mm
- Change gears
- Dead center
- 4-way tool post holder
- Cross slide with top support
- Chuck guard

BERNARDO
www.bernardo.at
HOBBY

Hobby 500

The Hobby 500 turning lathe is equipped with a 6-step control gear to allow for quick speed change. The compact construction guarantees smooth running and precise work. To reduce non-productive time the machine is also available with a 2-axis digital readout.



Independent chuck 100 mm ideal for clamping of asymmetric workpieces (optional)



Steady rest with bronze guiding supports long workpieces.



Serially equipped with change gears for thread cutting.

2-axis digital readout Bernardo DT 40 comes standard to guarantee high work comfort and more accuracy. (Art. no. 03-1071 / 03-1076)

NEW

Now with 2-axis digital readout available



A live center type SMA incl. 7 interchangeable tips is available for universal applications.



Optional accessories:

	Art. no.	excl. VAT
4-jaw independent chuck 100 mm	03-1660	
Steady rest	03-1665	
Follow rest	03-1670	
Medium duty live center with 7 interchangeable tips SMA - MT 2	22-1040	
Quick change set model Bernardo size 10, incl. 4 tips	23-1055B	
Costs of assembly for quick change set**	23-1092	

Optional accessories:

	Art. no.	excl. VAT
Coolant pump with plastic tank 10 l - (self installed) ¹		
Universal coolant fluid MN 1103, 5 l canister	54-1206	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Carbide tipped tool set 12 mm, 38 pcs.	44-1016	
Stand D3	56-1055	
Stand D3 Deluxe	56-1056	
Stand D4 Deluxe	56-10570	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

Precision lathes

Profi 550 WQ Profi 550 WQV

- Comes complete with leadscrew for thread cutting and automatic longitudinal feed
- Solid machine bed with inductively hardened and polished guides
- High-quality tapered roller bearings ensure high concentricity of spindle nose ($\leq 0.009\text{mm}$)
- Model Profi 550 WQV is serially equipped with electronic stepless speed setting
- Temperature monitoring incl. warning light protect motor against overload
- Tailstock can be adjusted for taper turning
- User-friendly arrangement of control elements
- Guides adjustable via gibs
- Spindle features 2 adjustable tapered roller bearings (P5-quality)
- Longitudinal and cross feed come standard
- Protective switch with undervoltage release

Longitudinal
and cross feed



A live center type SMA incl. 7 interchangeable tips is available for universal applications.



For clamping of irregular shaped workpieces, the machine can be equipped with a 240 mm face plate.



The collet chuck ER 25 guarantees high concentricity when clamping workpieces, clamping range 1 - 16 mm.



Technical data

	Profi 550 WQ	Profi 550 WQV
Distance between centers	550 mm	550 mm
Center height	125 mm	125 mm
Swing over bed	250 mm	250 mm
Bed width	135 mm	135 mm
Spindle bore	26 mm	26 mm
Taper at spindle bore	MT 4	MT 4
Speed range	(6) 125 - 2000 rpm	Stepless, 50 - 1000 rpm 100 - 2000 rpm
Longitudinal feed	(6) 0,06 - 0,32 mm/rev.	(6) 0,06 - 0,32 mm/rev.
Cross feed	(4) 0,03 - 0,075 mm/rev.	(4) 0,03 - 0,075 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	70 mm	70 mm
Taper of tailstock sleeve	MT 2	MT 2
Motor power output S ₁ 100%	0,75 kW / 230 V or 400 V	0,75 kW / 230 V
Motor power input S ₆ 40%	1,0 kW / 230 V or 400 V	1,0 kW / 230 V
Machine dimension (W x D x H)*	1210 x 610 x 450 mm	1210 x 610 x 450 mm
Weight approx.	120 kg	120 kg
Art. no.	03-1130 (230 V) 03-1135 (400 V)	03-1140 (230 V) 03-1141B**

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1141B)
- 3-jaw chuck DK11-125 mm
- Flange 125 mm
- Cross slide with top support
- Digital speed display (WQV)
- Dead centers
- Thread dial
- Change gears
- 4-way tool post holder
- Chuck guard
- Splash guard
- Leadscrew cover
- Tools

* without stand

** with 2 axis digital readout

The Profi 550 WQ and Profi 550 WQV are top-quality leadscrew lathes constructed according to DIN-standards. Special features of these models include the large longi-tudinal feed with 6 settings and the cross feed. Furthermore, the Profi 500 WQV comes complete with an electronically adjustable speed setting.

Profi 550 WQ Profi 550 WQV



Electronic, stepless speed adjustment – easy readout on digital display.



Milling attachment FA 16 optional available. (Except Profi 550 WQV with digital readout.)



The follow rest eliminates bending of thin shafts.



Ergonomically arranged control elements for easy adjustment of longitudinal and cross feed.



Inclusive: BERNARDO 3-jaw chuck 125 mm



Soft solid jaws, soft top jaws, hard top jaws available

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-125 mm according DIN 6350	21-0802	
Soft solid jaws DSJ-DK11-125	21-0852	
Independent chuck K72-125 mm according DIN 6350	21-5002	
Face plate diam. 240 mm	03-1755	
Flange 125 mm	03-1750	
Follow rest	03-1765	
Steady rest	03-1760	
Economy live center Typ PC - MT 2	22-1001	
Live center with 7 interchangeable tips SMA - MT 2	22-1040	
5C fixture for Profi(center) 550 series	22-1091	
Collet set 5C / 3 - 26 mm, 24-pcs.	22-1097	

Optional accessories:

	Art. no.	excl. VAT
Milling attachment FA 16 / 230 V (self installment)	03-1738	
4 station revolving tailstock turret MT 2 incl. inserts	22-1069	
Collet chuck ER 25 - D72	22-1082	
Collet set, 2 - 16 mm, 15 pcs.	26-1022	
Coolant pump with plastic tank 10 l - (self installed) ¹		
Universal coolant fluid MN 1103, 5 l canister	54-1206	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
Stand D3 Deluxe	56-1056	
Stand D4 Deluxe	56-10570	

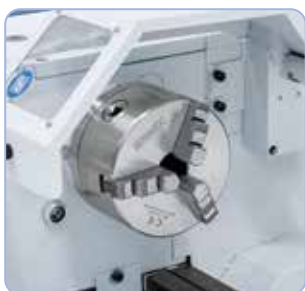
¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

- Control gear allows easy and quick speed change
- High-quality tapered rollerbearings ensure high concentricity of spindle nose ($\leq 0,009$ mm)
- Powerful motor for high torque, speed range 70 – 2000 rpm
- Wide range of applications: precision mechanics, training and education, etc.
- Logically arranged feed setting allows easy, smooth adjustment
- Solid machine bed with inductive hardened and polished guideways
- Ideal for processing steel, non-ferrous metals and plastics
- Comes complete with leadscrew for thread cutting and automatic longitudinal and cross feed
- Apron features handwheels with fine scale

**Best
price**



The control gear mounted on the head stock allows easy and quick speed change



3-jaw chuck 125 mm with hard inside and hard outside solid jaws as standard equipment.



4-jaw chuck 125 mm allows centric clamping of square sections (optional).



The collet chuck ER 25 guarantees high concentricity when clamping workpieces, clamping range 1 - 16 mm.



Independent chuck (optional accessory) allows clamping of irregular shaped workpieces.



Steady rest with bronze guides to stabilize long workpieces



Smoothly-running apron with top support and 4-way tool post holder, handwheels with adjustable metric scale



A live center type SMA with 7 interchangeable tips for universal applications is optionally available.

Technical data

Profi 650 G

Distance between centers	650 mm
Center height	140 mm
Swing over bed	280 mm
Bed width	160 mm
Spindle bore	26 mm
Taper at spindle bore	MT 4
Speed range	(12) 70 - 2000 rpm
Longitudinal feed	(15) 0,036 - 0,364 mm/rev.
Cross feed	(15) 0,019 - 0,188 mm/rev.
Metric thread	(27) 0,25 - 5 mm
Inch thread	(20) 6 - 96 threads/1"
Travel of tailstock sleeve	105 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	0,75 kW / 230 V or 400 V
Motor power input S ₆ 40%	1,0 kW / 230 V or 400 V
Machine dimension (W x D x H)*	1400 x 720 x 520 mm
Weight approx.	202 kg
Art. no.	03-1156 (230 V) 03-1157 (400 V) 03-1158 (230 V**) 03-1159 (400 V**)

* without stand

** with 2 axis digital readout



Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1158 / 03-1159)
- 3-jaw chuck 125 mm
- Flange 125 mm
- Cross slide with top support
- Dead centers
- Thread dial
- Change gears

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HOBBY

The machine can be equipped with a quick change tool post holder to raise efficiency

**High spindle
concentricity ≤ 0.009 mm**

- 4-way tool post holder
- LED machine light
- Chuck guard
- Splash guard
- Leadscrew cover
- Tools

Profi 650 G

The turning lathe Profi 650 G is serially equipped with a leadscrew for thread cutting and the automatic longitudinal and cross feed. The 12-step control gear allow a quick adjustment of the speed – not belt change necessary. The compact construction and the high own weight guarantees smooth running and precise work.



Machine can be equipped with revolving tailstock turret for economic operating



The tailstock with one-hand clamping can be moved for taper turning and is optionally available with a ball nose live center



Serially equipped with change gears for thread cutting.



No belt change necessary

Excellent illumination by LED machine light

NEW

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-125 mm according DIN 6350	21-0802	
Soft solid jaws DSJ-DK12-125	21-0865	
Independent chuck K72-125 mm according DIN 6350	21-5002	
Flange 125 mm	03-1752	
Face plate diam. 240 mm	03-1754	
Steady rest	03-17440	
Follow rest Lünette	03-17450	
Economy live center Typ PC - MT 3	22-1002	
Ball nose live center MT 3 / 100 mm	22-1055	
5C fixture with flange	22-1091	

Optional accessories:

	Art. no.	excl. VAT
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
ER 25 collet fixture - D 72	22-1082	
ER 25 round hole collets set, 1 - 16 mm, 15 pcs.	26-1022	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	
Costs of assembly for quick change sets**	23-1092	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Multipurpose turning tool set, 12 mm, 9 pcs., set C	44-3084	
6 station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
Stand Deluxe	56-10780	

Precision lathes

Profi 550 LZ Profi 750 LZ

- Practical, solid machine with leadscrew and feed rod
- Logically arranged feed setting allows easy, smooth adjustment
- Wide range of applications: precision mechanics, training and education, etc.
- Ideal for processing steel, non-ferrous materials and plastics
- Apron features handwheels with fine scale
- Headstock serves as temporary tool storage
- Adjustable headstock, tailstock and guides
- Powerful motor, even at longer operation
- Electronic, stepless speed setting allows ideal adjustment to each workpiece

With safety clutch and micrometer longitudinal fence



Collet chuck 5C (3 - 26 mm) optionally available



Longitudinal and cross feed

To reduce downtime, the machine can be equipped with a quick-change tool holder Bernardo size 20.



Independent chuck 125 mm for clamping of asymmetric workpieces is optionally available.



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HOBBY

Standard accessories:

- 3-jaw chuck DK11-125 mm
- Flange 125 mm
- Dead centers
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Digital speed display
- Thread dial
- Chuck guard
- Splash guard
- Leadscrew cover
- Tools

Leadscrew and feed rod come standard

Technical data	Profi 550 LZ	Profi 750 LZ
Distance between centers	550 mm	750 mm
Center height	130 mm	130 mm
Swing over bed	250 mm	250 mm
Bed width	135 mm	135 mm
Spindle bore	26 mm	26 mm
Taper at spindle bore	MT 4	MT 4
Speed range, stepless	50 - 1000 / 100 - 2000 rpm	50 - 1000 / 100 - 2000 rpm
Longitudinal feed	(6) 0,08 - 0,48 mm/rev.	(6) 0,08 - 0,48 mm/rev.
Cross feed	(6) 0,026 - 0,156 mm/rev.	(6) 0,026 - 0,156 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	75 mm	75 mm
Taper of tailstock sleeve	MT 2	MT 2
T-slot size	10 mm	10 mm
Motor power output S ₁ 100%	0,75 kW / 230 V	0,75 kW / 230 V
Motor power input S ₆ 40%	1,0 kW / 230 V	1,0 kW / 230 V
Machine dimension (W x D x H)*	1150 x 600 x 460 mm	1350 x 600 x 460 mm
Weight approx.	130 kg	145 kg
Art. no.	03-1144	03-1145

* without stand

The Profi 550 LZ and Profi 750 LZ lathes are serially equipped with a leadscrew and feed rod for thread cutting / auto-feed. New features at these models are the safety clutch and the micrometer longitudinal fence. Further, these machines can be additionally extendable with a milling attachment FA 16.

Profi 550 LZ Profi 750 LZ



6 different feeds are available for the longitudinal and cross travel of apron / top slide.



Hardened spindle, high-quality taper bearings ensure high concentricity of spindle nose (≤ 0.009 mm)

Best price

High spindle concentricity ≤ 0.009 mm

Main spindle bearing in P5-quality

Motor temperature indication comes standard



Inclusive: BERNARDO 3-jaw chuck 125 mm



Soft solid jaws, soft top jaws, hard top jaws available

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-125 mm according DIN 6350	21-0802	
Soft solid jaws DSJ-DK11-125	21-0852	
Soft solid jaws DSJ-DK12-125	21-0865	
Independent chuck K72-125 mm according DIN 6350	21-5002	
Face plate diam. 240 mm	03-1755	
Flange 125 mm	03-1750	
Follow rest	03-1765	
Steady rest	03-1760	
Economy live center Typ PC - MT 2	22-1001	
Milling attachment FA 16 / 230 V (self installment)	03-1738	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	
Costs of assembly for quick change sets**	23-1092	
4 station revolving tailstock turret MT 2 incl. inserts	22-1069	
5C fixture for Profi(center) 550 series	22-1091	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Multipurpose turning tool set, 12 mm, 9 pcs., set C	44-3084	
Stand D3 Deluxe for Profi 550 LZ	56-1056	
Stand f. Profi 750 LZ	56-1060	



Milling attachment FA 16 upgradeable. Technical data see Proficenter 550 WQV.



3-jaw chuck 125 mm includes hard inside and hard outside solid jaws.

Vario-precision lathes

Profi 700 BQV

- Electronically adjustable, stepless speed setting comes standard
- Comes complete with feed rod for automatic longitudinal and cross feed
- Temperature monitoring incl. warning light protect motor against overload
- Standard 38 mm spindle bore
- High-quality tapered roller bearings ensure high concentricity of spindle nose ($\leq 0.009\text{mm}$)
- Solid machine bed with inductive hardened and polished guideways
- Comes complete with leadscrew for thread cutting
- Top support can be adjusted in x-axis
- User-friendly arrangement of control elements
- Powerful motor, even at longer operation
- Tailstock adjustable for taper turning
- Guideways adjustable via gibbs



Accurate speed adjustment

Spindle bore 38 mm

Main spindle bearing in P5-quality

Machine can be equipped with revolving tailstock turret for economic operating



Electronic, stepless speed adjustment - easily read on digital display.



4-jaw chuck 160 mm allows centric clamping of square sections (optional).



Technical data

Profi 700 BQV

Distance between centers	700 mm
Center height	140 mm
Swing over bed	280 mm
Spindle bore	38 mm
Taper at spindle bore	MT 5
Speed range, stepless	50 - 850 / 110 - 1800 rpm
Longitudinal feed	(14) 0,07 - 0,65 mm/rev.
Cross feed	(11) 0,03 - 0,12 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	85 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,1 kW / 230 V
Motor power input S ₆ 40%	1,5 kW / 230 V
Machine dimension (W x D x H)*	1380 x 640 x 500 mm
Weight approx.	235 kg
Art. no.	03-1172 03-1173B**

* without stand

** with 2 axis digital readout

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HOBBY

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1173B)
- 3-jaw chuck DK11-160 mm
- Flange 160 mm
- Dead center
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence

- Cross slide with top support
- Digital speed indication
- Thread dial
- Chuck guard
- Splash guard
- Spindle cover
- Tools

The vario turning lathe Profi 700 BQV is manufactured according to highest quality standards and precision. The ergonomically located digital display offers easy reading of the electronic speed adjustment. Special feature of this model include the large longitudinal feed with 14 settings and the cross feed. To reduce non-productive time the machine is also available with a 2-axis digital readout.

Profi 700 BQV

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DAS ORIGINAL

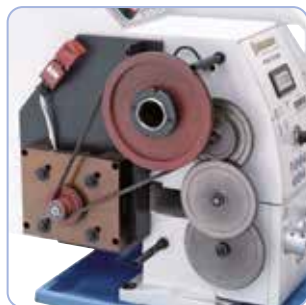
Milling attachment FA 25 optionally available. Technical data see Proficenter 700 BQV.



Inclusive: BERNARDO 3-jaw chuck 160 mm

Soft solid jaws, soft top jaws, hard top jaws available

The standard 38 mm spindle bore allows processing of large shaft diameters.



Serially equipped with change gears for thread cutting.



Ergonomically located control levers for adjustment of longitudinal and cross feed.



Digital speed indication

With safety clutch and micrometer longitudinal fence

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm according DIN 6350	21-0803	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck K72-160 mm according DIN 6350	21-5003	
Face plate diam. 240 mm	03-1789	
Flange 160 mm for independent chuck K 72 - 160 mm	03-1797	
Flange 160 mm for chuck DK 11 / DK 12 - 160 mm	03-1799	
Milling attachment FA 25 / 230 V (self installment)	03-1739	
Follow rest	03-1805	
Steady rest	03-1800	
Economy live center Typ PC - MT 3	22-1002	

Optional accessories:

	Art. no.	excl. VAT
Coolant pump with plastic tank 10 l - 230 V (self installment)	51-1003	
Universal coolant fluid MN 1103, 5 l canister	54-1206	
40 pos. tool post & holder set System Multifix, size A	23-1000	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Carbide turning tool set 12 mm, 4 pcs. incl. boring bar	44-2031	
3 station revolving tailstock turret MT 2	22-1068	
Stand D6	56-1061	
Stand D6 Deluxe	56-1062	
Stand D10 Deluxe	56-1074	

Vario lathes with frequency inverter

Profi 550 TOP Profi 700 TOP

- Three-phase motor with frequency inverter for higher performance and high torque
- Complete with 38 mm spindle bore to allow processing of large shaft diameters (Profi 700 Top)
- Stepless speed adjustment as part of standard accessories, set speed can be read on digital display
- Feed settings are logically arranged, easy to control with top accuracy
- Suitable for processing of steel, non-ferrous metals and plastics
- Prism bed with large support surface, inductively hardened and polished
- Precise spindle bearing with two adjustable precision taper roller bearings
- High concentricity of spindle nose – better than 0.009 mm
- Tailstock spindle and handwheel come with adjustable scale (0.02 mm)



Optionally available: 5C round hole collet set, clamping area 3-26 mm



Optionally available milling attachment increases range of applications significantly

Inclusive: BERNARDO 3-jaw chuck



Soft solid jaws, soft top jaws, hard top jaws available

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EXKLUSIV



Main spindle bearing in P5-quality

With longitudinal and cross feed!

Machine can be equipped with revolving tailstock turret for economic operating



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SEMIPROFESSIONAL

Technical data	Profi 550 Top	Profi 700 Top
Distance between centers	550 mm	700 mm
Center height	125 mm	150 mm
Swing over bed	250 mm	300 mm
Bed width	135 mm	180 mm
Spindle bore	26 mm	38 mm
Taper at spindle bore	MT 4	MT 5
Speed range, stepless	70 - 380 / 380 - 2000 rpm	70 - 380 / 380 - 2000 rpm
Longitudinal feed	(6) 0,06 - 0,32 mm/rev.	(14) 0,07 - 0,65 mm/rev.
Cross feed	(4) 0,03 - 0,075 mm/rev.	(11) 0,03 - 0,12 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	70 mm	85 mm
Taper of tailstock sleeve	MT 2	MT 3
Motor power output S ₁ 100%	0,75 kW / 230 V	0,85 kW / 230 V
Motor power input S ₆ 40%	1,0 kW / 230 V	1,1 kW / 230 V
Machine dimension (W x D x H)*	1210 x 610 x 450 mm	1380 x 640 x 500 mm
Weight approx.	137 kg	235 kg
Art. no.	03-1142	03-1174 03-1175B**

* without stand

** with 2 axis digital readout

Standard accessories:

- Dead centers
- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1175B)
- 3-jaw chuck DK11-125 mm (550 Top)
- 3-jaw chuck DK11-160 mm (700 Top)
- Flange 125 mm (550 Top)
- Flange 160 mm (700 Top)
- Change gears
- 4-way tool post holder
- Safety clutch (700 Top)
- Micrometer longitudinal fence (700 Top)
- Cross slide with top support
- Frequency inverter
- Digital speed indication
- Thread dial
- Chuck guard
- Splash guard
- Leadscrew cover

Digital speed indication

The Profi 550 Top and Profi 700 Top are the latest additions to our range of lathes. Both come complete with high-quality Delta frequency inverters, resulting in significant advantages such as high torque in low speed range and the nearly constant speed at heavy workloads.

Profi 550 TOP Profi 700 TOP



Independent chuck 160 mm (optional) ideal for clamping of asymmetrical workpieces



Comes complete with 38 mm spindle bore (700 Top) to allow processing of workpieces with a large shaft diameter



700 Top features a safety clutch and micrometer longitudinal fence



With Delta frequency inverter for optimal running performance

Swing over bed 300 mm

Optional accessories for Profi 550 Top:

	Art. no.	excl. VAT
4-jaw chuck DK12-125 mm according DIN 6350	21-0802	
Soft solid jaws DSJ-DK11-125	21-0852	
Independent chuck K72-125 mm according DIN 6350	21-5002	
Face plate diam. 240 mm	03-1755	
Flange 125 mm	03-1750	
Follow rest	03-1765	
Steady rest	03-1760	
Economy live center Typ PC - MT 2	22-1001	
Live center with 7 interchangeable tips SMA - MT 2	22-1040	
Milling attachment FA 16 / 230 V (self installment)	03-1738	
3 station revolving tailstock turret MT 2, incl. inserts	22-1068	
5C fixture for Profi(center) 550 series	22-1091	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Coolant pump with plastic tank 10 l - 230 V (self installment)	51-1003	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	
Costs of assembly for quick change set**	23-1092	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Stand D4 Deluxe	56-10570	

Optional accessories for Profi 700 Top:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm according DIN 6350	21-0803	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck K72-160 mm according DIN 6350	21-5003	
Face plate diam. 240 mm	03-1789	
Flange 160 mm for independent chuck K72 - 160 mm	03-1797	
Flange 160 mm for chuck DK 11 / DK 12 - 160 mm	03-1799	
Milling attachment FA 25 / 230 V (self installment)	03-1739	
Follow rest	03-1807	
Steady rest	03-1806	
Economy live center Typ PC - MT 3	22-1002	
Coolant pump with plastic tank 10 l - 230 V (self installment)	51-1003	
40 pos. tool post & holder set System Multifix, size A	23-1000	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
4 station revolving tailstock turret MT 2, incl. inserts	22-1069	
Stand D6 Deluxe	56-1062	
Stand D8 Deluxe	56-1064	

Vario lathes with frequency inverter

Profi 550 PRO

- Precision 3-jaw steel chuck for speed up to 3000 rpm comes standard
- Serially with Delta frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Main spindle bearing with adjustable taper roller bearing in P5-quality
- Tailstock spindle and handwheel come with adjustable scale (0.02 mm)
- Optionally available milling attachment increases range of applications
- High concentricity of the hardened spindle nose $\leq 0,009$ mm
- Solid machine bed with inductive hardened and polished guideways
- Top support can be adjusted in x-axis
- Stepless speed adjustment as part of standard accessories, set speed can be read on digital display

**Max. speed
3000 rpm**

The machine can be equipped with a quick change tool post holder to raise efficiency



Smoothly-running apron with top support and 4-way tool post holder, handwheels with adjustable metric scale



The collet chuck ER 25 guarantees high concentricity when clamping workpieces, clamping range 1 - 16 mm.

Inclusive: BERNARDO 3-jaw chuck

Soft solid jaws, soft top jaws, hard top jaws available



Technical data	Profi 550 PRO	Profi 700 PRO
Distance between centers	550 mm	700 mm
Center height	125 mm	150 mm
Swing over bed	250 mm	300 mm
Bed width	135 mm	180 mm
Spindle bore	26 mm	38 mm
Taper at spindle bore	MT 4	MT 5
Speed range, stepless	30 - 450 / 150 - 3000 rpm	30 - 450 / 150 - 3000 rpm
Longitudinal feed	(6) 0,06 - 0,32 mm/rev.	(14) 0,07 - 0,65 mm/rev.
Cross feed	(4) 0,03 - 0,075 mm/rev.	(11) 0,03 - 0,12 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	70 mm	85 mm
Taper of tailstock sleeve	MT 2	MT 3
Motor power output S ₁ 100%	1,5 kW / 230 V or 400 V	1,5 kW / 230 V or 400 V
Motor power input S ₆ 40%	2,2 kW / 230 V or 400 V	2,2 kW / 230 V or 400 V
Machine dimension (W x D x H)*	1210 x 610 x 450 mm	1380 x 640 x 500 mm
Weight approx.	137 kg	235 kg
Art. no.	03-1179 03-1178 (400 V) 03-1177 (400 V**)	03-1180 (230 V) 03-1181B (230 V**) 03-1183B (400 V**)

Standard accessories:

- 3-jaw steel chuck P03-125 mm (550 PRO)
- 3-jaw steel chuck P03-160 mm (700 PRO)
- Flange 125 mm (550 PRO)
- Flange 160 mm (700 PRO)
- Dead centers
- Change gears
- 4-way tool post holder (550 PRO)
- Quick change tool post size 20-2 with 2 straight inserts (700 PRO)
- Safety clutch (700 PRO)
- Micrometer longitudinal fence (700 PRO)
- Cross slide with top support
- Frequency inverter
- Digital speed indication
- Thread dial
- Chuck guard
- Splash guard
- Leadscrew cover

* without stand
** with 2 axis digital readout

The PRO-series turning lathes feature a high speed range up to 3000 rpm as well as a large range of standard accessories (for instance DC-motor with frequency inverter, main spindle bearing in P5-quality, micrometric longitudinal fence for repetitive work and safety clutch (Profi 700 PRO) etc.) making these models ideal for users with high expectations.

Profi 700 PRO



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DAS ORIGINAL

Swing over bed
300 mm



3-jaw steel chuck with hard inside and hard outside solid jaws as standard equipment.



V-belts for easy change of the speed step



Model 700 PRO features a safety clutch and micrometer longitudinal fence



INCLUSIVE

Quick change set
model BERNARDO size 20-2
with 2 inserts

Optional accessories for Profi 550 PRO:

	Art. no.	excl. VAT
4-jaw steel chuck P04-125 mm according DIN 6350	21-2009F	
Soft solid jaws SJ-PS3-125	21-3202	
Independent chuck K72-125 mm according DIN 6350	21-5002	
Face plate 240 mm	03-1755	
Flange 125 mm	03-1750	
Steady rest	03-1765	
Follow rest	03-1760	
Economy live center Typ PC - MT 2	22-1001	
Live center with 7 interchangeable tips SMA - MT 2	22-1040	
Milling attachment FA 16 / 230 V (self installment)	03-1738	
3 station revolving tailstock turret MT 2, incl. inserts	22-1068	
5C fixture for Profi(center) 550 series	22-1091	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Coolant pump with plastic tank 10 l - 230 V (self installment)	51-1003	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	
Costs of assembly for quick change set**	23-1092	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Stand D3 Deluxe	56-1056	

Optional accessories for Profi 700 PRO:

	Art. no.	excl. VAT
4-jaw steel chuck P04-160 mm according DIN 6350	21-2010F	
Soft solid jaws SJ-PS3-160	21-3203	
Soft solid jaws SJ-PS4-160	21-3221	
Independent chuck K72-160 mm according DIN 6350	21-5003	
Face plate 240 mm	03-1789	
Flange 160 mm for independent chuck K72 - 160 mm	03-1797	
Flange 160 mm for chuck DK 11 / DK 12 - 160	03-1799	
Milling attachment FA 25 / 230 V (self installment)	03-1739	
Follow rest	03-1807	
Steady rest	03-1806	
Economy live center Typ PC - MT 3	22-1002	
Collet chuck ER 25 - D-100	22-1084	
Collet set ER 25, 2 - 16 mm, 15-pcs.	26-1022	
Turning and facing holder size 20	23-1059B	
Boring bar holder size 20	23-1062B	
Multipurpose turning tool set, 12 mm, 9-pcs.	44-3084	
Stand D6 Deluxe	56-1062	
Stand D8 Deluxe	56-1064	

Vario lathe with frequency inverter

Profi 750 Vario

- Three -phase motor with frequency inverter for higher performance and high torque
- Complete with 38 mm spindle bore to allow processing of large shaft diameters
- Stepless speed adjustment as part of standard accessories, set speed can be read on digital display
- Wide range of applications: precision mechanics, training and education, etc.
- Feed settings are logically arranged, easy to control with top accuracy
- Suitable for processing of steel, non-ferrous metals and plastics
- Prism bed with large support surface, inductively hardened and polished
- Precise spindle bearing with two adjustable precision taper roller bearings
- High concentricity of spindle nose – better than 0.009 mm
- Practical, solid machine with leadscrew and feed rod

Inclusive: BERNARDO
3-jaw chuck



Soft solid jaws, soft
top jaws, hard top jaws
available



Electronic, stepless speed adjustment – easily read on digital display.



Micrometer longitudinal fence and safety clutch are part of standard equipment.



Technical data

Profi 750 Vario

Distance between centers	750 mm
Center height	140 mm
Swing over bed	280 mm
Spindle bore	38 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range, stepless	75 – 500 / 300 – 2000 rpm
Longitudinal feed	(15) 0,07 – 1,0 mm/rev.
Cross feed	(15) 0,017 – 0,25 mm/rev.
Metric thread	(18) 0,2 – 3,5 mm
Inch thread	(21) 8 – 56 threads/1"
Travel of tailstock sleeve	90 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW / 230 V or 400 V
Motor power input S ₆ 40%	2,2 kW / 230 V or 400 V
Machine dimension (W x D x H)*	1400 x 730 x 520 mm
Weight approx.	220 kg
Art. no.	03-11790 (230 V) 03-11791 (230 V**) 03-11792 (400 V) 03-11793 (400 V**)

* without stand

** with 2 axis digital readout

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-11791 / 03-11793)
- 3-jaw chuck DK11-160 mm / D4
- Dead centers
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Frequency inverter
- Digital speed indication
- LED machine light
- Chuck guard
- Splash guard
- Leadscrew cover
- Tools

Digital
speed indication

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SEMIPROFESSIONAL

The Vario-lathe Profi 750 Vario feature a large range of standard accessories (for instance DC-motor with frequency inverter, main spindle bearing in P5-quality, micrometric longitudinal fence, safety clutch, LED machine light,...) making this model ideal for users with high expectations. For reducing the non-productive time, the model is also available with a 2-axis digital readout.

Profi 750 Vario



To reduce downtime, the machine can be equipped with a quick-change tool holder Bernardo size 20.



Steady rest with bronze guiding supports long workpieces.



The machine can be equipped with a revolving tailstock turret to increase productivity.

NEW

Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts. (optional)

The machine is serially equipped with a Bernardo digital readout (Art. no. 03-11791 / 03-11793).

With Delta frequency inverter for optimal running performance



Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck 160 mm / D4, according DIN 55029	21-5058B	
Follow rest	03-16740	
Steady rest	03-1674	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	

Optional accessories:

	Art. no.	excl. VAT
Coolant pump with plastic tank 10 l - (self installed) ¹		
5C fixture with direct mount, D1-4	22-1095	
5C round hole collet set, 3 - 26 mm, 24-pcs.	22-1097	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
3 station revolving tailstock turret MT 2	22-1068	
Stand D13 Deluxe	56-1054	
Stand D14 Deluxe	56-10540	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

Precision lathe

Hobby 800 G

**Best
price**

- Control gear allows easy and quick speed change
- High-quality tapered rollerbearings ensure high concentricity of spindle nose ($\leq 0,009$ mm)
- Powerful motor for high torque, speed range 70 – 1800 rpm
- Wide range of applications: precision mechanics, training and education, etc.
- Logically arranged feed setting allows easy, smooth adjustment
- Solid machine bed with inductive hardened and polished guideways
- Ideal for processing steel, non-ferrous metals and plastics
- Comes complete with leadscrew for thread cutting and automatic longitudinal and cross feed
- Apron features handwheels with fine scale



The control gear mounted on the head stock allows easy and quick speed change



3-jaw chuck 160 mm with hard inside and hard outside solid jaws as standard equipment.



Independent chuck (optional accessory) allows clamping of irregular shaped workpieces.



For clamping of irregular shaped workpieces, the machine can be equipped with a 250 mm face plate.



Steady rest with bronze guides to stabilize long workpieces



Smoothly-running apron with top support and 4-way tool post holder, handwheels with adjustable metric scale



A live center type SMA with 7 interchangeable tips for universal applications is optionally available.



Machine can be equipped with revolving tailstock turret for economic operating

Technical data

Hobby 800 G

Distance between centers	750 mm
Center height	165 mm
Swing over bed	330 mm
Bed width	160 mm
Spindle bore	38 mm
Taper at spindle bore	MT 5
Speed range	(12) 70 - 1800 rpm
Longitudinal feed	(45) 0,0087 - 1,396 mm/rev.
Cross feed	(48) 0,0018 - 0,296 mm/rev.
Metric thread	(17) 0,5 - 4 mm
Inch thread	(26) 8 - 40 threads/1"
Travel of tailstock sleeve	75 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,1 kW / 230 V or 400 V
Motor power input S ₆ 40%	1,5 kW / 230 V or 400 V
Machine dimension (W x D x H)*	1370 x 680 x 1320 mm
Weight approx.	268 kg
Art. no.	03-1162 (230 V) 03-11620 (400 V) 03-11623 (230 V**) 03-11624 (400 V**)

* without stand

** with 3 axis digital readout



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HOBBY

The machine can be equipped with a quick change tool post holder to raise efficiency

**High spindle
concentricity ≤ 0.009 mm**

Standard accessories:

- 3-axis digital readout DT 40 with LCD-display (Art. no. 03-11623 / 03-11624)
- 3-jaw chuck 160 mm
- Cross slide with top support
- Dead center
- Change gears
- 4-way tool post holder

- LED machine light
- Chuck guard
- Splash guard
- Leadscrew cover
- Chip tray
- Stand
- Tools

The turning lathe Hobby 800 G is serially equipped with a leadscrew for thread cutting and the automatic longitudinal and cross feed. The 12-step control gear allow a quick adjustment of the speed – not belt change necessary. The compact construction and the high own weight guarantees smooth running and precise work.

Hobby 800 G



3-axis digital readout Bernardo DT 40 comes standard to guarantee high work comfort and more accuracy. (Art. no. 03-11623 / 03-11624)



The tailstock with one-hand clamping can be moved for taper turning and is optionally available with a ball nose live center



Serially equipped with change gears for thread cutting.

No belt change necessary

Excellent illumination by LED machine light



NEW

Inclusive stand

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck 160 mm	03-16745	
Independent chuck 160 mm	03-16746	
Flange 160 mm	03-16744	
Face plate diam. 250 mm	03-16743	
Steady rest	03-16741	
Follow rest Lünette	03-16742	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 / 100 mm	22-1055	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	

Optional accessories:

	Art. no.	excl. VAT
Turning and facing holder size 20	23-1059B	
Costs of assembly for quick change sets**	23-1092	
Keyless drill chuck with direct mount MT 3, 1 - 16 mm	24-1072	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Carbide turning tool set 12 mm, 6 pcs. incl. boring bar	44-2052	
Multipurpose turning tool set, 12 mm, 9 pcs., set C	44-3084	
6 station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
Coolant pump with plastic tank 10 l - (self installed) ¹		
Universal coolant fluid MN 1103, 5 l canister	54-1206	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

Vario lathe with frequency inverter

Profi 880 G Vario

- Complete with 38 mm spindle bore to allow processing of large shaft diameters
- Strongly reinforced machine bed featuring induction-hardened, polished guide
- Suitable for processing of steel, non-ferrous metals and plastics
- Universal in use: longitudinal turning, facing, profiling, thread cutting etc.
- Change gears for cutting of metric threads are part of the standard accessories
- Main spindle features adjustable tapered roller bearings in P5 quality
- User-friendly arrangement of control elements on gear head
- Tailstock features single-lever clamping, adjustable for taper turning
- V-ledges allow for adjustment of bed way guides
- Serially with Delta frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads

Inclusive: BERNARDO
3-jaw chuck



Soft solid jaws, soft
top jaws, hard top jaws
available



Convenient pre-selection of gears via reduction gearing, potentiometer allows for speed adjustment.



4-jaw chuck 160 mm allows centric clamping of square sections (optional).



Technical data

Profi 880 G Vario

Distance between centers	880 mm
Center height	160 mm
Swing over bed	320 mm
Spindle bore	38 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range, stepless	75 - 435 / 400 - 2250 rpm
Longitudinal feed	(15) 0,07 - 1,0 mm/rev.
Cross feed	(15) 0,017 - 0,25 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW / 230 V or 400 V
Motor power input S ₆ 40%	2,2 kW / 230 V or 400 V
Machine dimension (W x D x H)*	1660 x 650 x 570 mm
Weight approx.	255 kg
Art. no.	03-1184 (230 V) 03-1187 (230 V**) 03-1188 (400 V) 03-1189 (400 V**)

* without stand

** with 2 axis digital readout

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1187 / 03-1189)
- 3-jaw chuck DK11-160 mm / D4
- Dead centers
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Frequency inverter
- Digital speed indication
- Thread dial
- LED machine light
- Chuck guard
- Splash guard
- Leadscrew cover
- Tools

Digital
speed indication

BERNARDO
SEMIPROFESSIONAL

The Vario-lathe Profi 880 G Vario lathe features a reduction gear as standard, which eliminates the need to change speed step using V-belt. Another feature of this machine is the standard frequency inverter, resulting in high torque in the lower speed range and the nearly constant speed at heavy workloads.

Profi 880 G Vario



The standard 38 mm spindle bore allows processing of large shaft diameters.

Accurate speed adjustment

With Delta frequency inverter for optimal running performance



Optionally available: 5C round hole collet set, clamping area 3-26 mm

The machine is serially equipped with a Bernardo digital readout (Art. no. 03-1187 / 03-1189).



Hardened spindle, high-quality taper bearings ensure high concentricity of spindle nose (≤ 0.009 mm)



Ergonomically located control levers for adjustment of longitudinal and cross feed.



Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck 160 mm / D4, according DIN 55029	21-5058B	
Follow rest	03-1672	
Steady rest	03-1671	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	

Optional accessories:

	Art. no.	excl. VAT
Coolant pump with plastic tank 10 l - (self installed) ¹		
5C fixture with direct mount, D1-4	22-1095	
5C round hole collet set, 3 - 26 mm, 24-pcs.	22-1097	
Quick change tool post and holder set System Multifix, size E	23-1001	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
3 station revolving tailstock turret MT 2	22-1068	
Stand D12 Deluxe	56-1053	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

Vario lathe with frequency inverter

Profi 900 Vario

- Three -phase motor with frequency inverter for higher performance and high torque
- Complete with 38 mm spindle bore to allow processing of large shaft diameters
- Stepless speed adjustment as part of standard accessories, set speed can be read on digital display
- Wide range of applications: precision mechanics, training and education, etc.
- Feed settings are logically arranged, easy to control with top accuracy
- Suitable for processing of steel, non-ferrous metals and plastics
- Prism bed with large support surface, inductively hardened and polished
- Precise spindle bearing with two adjustable precision taper roller bearings
- High concentricity of spindle nose – better than 0.009 mm
- Practical, solid machine with leadscrew and feed rod

Inclusive: BERNARDO
3-jaw chuck



Soft solid jaws, soft
top jaws, hard top jaws
available



Electronic, stepless speed adjustment – easily read on digital display.



Micrometer longitudinal fence and safety clutch are part of standard equipment.



Technical data

Profi 900 Vario

Distance between centers	900 mm
Center height	160 mm
Swing over bed	320 mm
Spindle bore	38 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range, stepless	75 – 500 / 300 – 2000 rpm
Longitudinal feed	(15) 0,07 – 1,0 mm/rev.
Cross feed	(15) 0,017 – 0,25 mm/rev.
Metric thread	(18) 0,2 – 3,5 mm
Inch thread	(21) 8 – 56 threads/1"
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW / 230 V or 400 V
Motor power input S ₆ 40%	2,2 kW / 230 V or 400 V
Machine dimension (W x D x H)*	1650 x 650 x 600 mm
Weight approx.	240 kg
Art. no.	03-1191 (230 V) 03-1192 (230 V**) 03-1193 (400 V) 03-1194 (400 V**)

* without stand

** with 2 axis digital readout

Standard accessories:

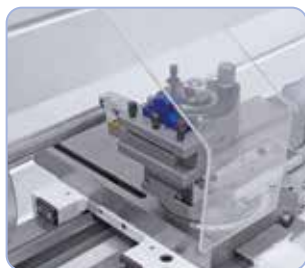
- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1192 / 03-1194)
- 3-jaw chuck DK11-160 mm / D4
- Dead centers
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Frequency inverter
- Digital speed indication
- Thread dial
- LED machine light
- Chuck guard
- Splash guard
- Leadscrew cover
- Tools

Digital
speed indication

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The Vario-lathe Profi 900 Vario feature a large range of standard accessories (for instance DC-motor with frequency inverter, main spindle bearing in P5-quality, micrometric longitudinal fence, safety clutch, LED machine light,...) making this model ideal for users with high expectations. For reducing the non-productive time, the model is also available with a 2-axis digital readout.

Profi 900 Vario



The quick-release tool holder system Multifix clearly reduces downtime and guarantees high accuracy at repetitious work. (optional)



Steady rest with bronze guiding supports long workpieces.



The machine can be equipped with a revolving tailstock turret to increase productivity.

Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts. (optional)

With Delta frequency inverter for optimal running performance

The machine is serially equipped with a Bernardo digital readout (Art. no. 03-1192 / 03-1194).



Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck 160 mm / D4, according DIN 55029	21-5058B	
Follow rest	03-1672	
Steady rest	03-1671	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	

Optional accessories:

	Art. no.	excl. VAT
Coolant pump with plastic tank 10 l - (self installed) ¹		
5C fixture with direct mount, D1-4	22-1095	
5C round hole collet set, 3 - 26 mm, 24-pcs.	22-1097	
Quick change tool post and holder set System Multifix, size E	23-1001	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
4 station revolving tailstock turret MT 2 incl. inserts	22-1069	
Stand D12 Deluxe	56-1053	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

Machining centre

Proficenter 550 WQV

- Hardened spindle, standard 26 mm bore
- Electronic, stepless speed setting allows ideal adjustment to workpiece
- Serially equipped with longitudinal and cross feed
- Inductively hardened and polished machine bed provides large surface
- Constructed according to Bernardo-Standards
- Precise spindle bedding with 2 adjustable precision taper roller bearings
- User-friendly arrangement of control elements on gear head
- Protective switch according to IP54 standards with undervoltage release
- Swivelling mill head extends application area (-90° to +90°)
- Mill head with digital display for spindle stroke and speed



Electronic stepless speed adjustment – easy readout on digital display.



Independent chuck (optional accessory) allows clamping of irregular shaped workpieces.

Main spindle bearing in P5-quality

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HOBBY

Technical data

Proficenter 550 WQV

Turning lathe

Distance between centers	550 mm
Center height	125 mm
Swing over bed	250 mm
Spindle bore	26 mm
Taper at spindle bore	MT 4
Speed range, stepless	50 - 2000 / 100 - 2000 rpm
Longitudinal feed	(6) 0,07 - 0,40 mm/rev.
Cross feed	(4) 0,03 - 0,075 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	70 mm
Taper of tailstock sleeve	MT 2
T-slot size for cross slide	10 mm
Motor power output S ₁ 100%	0,75 kW / 230 V
Motor power input S ₆ 40%	1,0 kW / 230 V

Milling attachment

Drilling capacity in steel	16 mm
Face mill capacity max.	50 mm
End mill capacity max.	16 mm
Distance spindle to column	150 mm
Spindle speed, stepless	50 - 2250 rpm
Spindle taper	MT 2
Mill head tiltable	-90° to +90°
Height adjustment of mill head	195 mm
Motor power output S ₁ 100%	0,50 kW / 230 V
Motor power input S ₆ 40%	0,75 kW / 230 V

Machine dimension (W x D x H)*	1210 x 610 x 860 mm
Weight approx.	165 kg
Art. no.	03-1240
	03-1242**

* without stand

** with 2 axis digital readout

Best Price

Milling head tiltable from -90° to +90°.



Optional accessories:

4-jaw chuck DK12-125 mm according DIN 6350	Art. no.	excl. VAT
Soft solid jaws DSJ-DK11-125	21-0802	
Soft solid jaws DSJ-DK12-125	21-0852	
Independent chuck K72-125 mm according DIN 6350	21-0865	
Face plate diam. 240 mm	21-5002	
Flange 125 mm	03-1755	
Follow rest	03-1750	
Steady rest	03-1765	
Economy live center Typ PC - MT 2	03-1760	
Live center with 7 interchangeable tips SMA - MT 2	22-1001	
Coolant pump with plastic tank 10 l - 230 V (self installment)	22-1040	
Quick change set model Bernardo size 20, incl. 4 tips	51-1003	
Costs of assembly for quick change set**	23-1056B	
4 station revolving tailstock turret MT 2 incl. inserts	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	22-1069	
Stand D3 Deluxe	44-3084	
Stand D4 Deluxe	56-1056	
	56-10570	

The Proficenter 550 WQV meets all requirements of precision mechanics, training workshops and education. The machining centre allows drilling, milling and turning on minimum space, comes with a digital display of drill depth and speed for high comfort and features a large spindle bore.

Proficenter 550 WQV



Mill head comes with digital display for drill depth and speed – drilling and milling possible at all angles.

Digital speed indication



Steady rest with bronze guiding supports long workpieces.

Stepless speed adjustment



Ergonomically arranged gear lever allows adjustment of longitudinal and cross feed.

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1242)
- 3-jaw chuck DK11-125 mm
- Flange 125 mm
- Drill chuck 1 – 13 mm / B 16
- Drill chuck arbor MT 2 / B 16
- Thread dial
- Dead centers
- Change gears
- 4-way tool post holder
- Cross slide with top support
- Digital spindle stroke display
- Digital speed display
- Drawbar M 10
- Chuck guard
- Leadscrew cover
- Tools

Inclusive: BERNARDO 3-jaw chuck 125 mm



Soft solid jaws, soft top jaws, hard top jaws available

Optional accessories:

- Tilttable rotary table RT 4 S
- 2 flute HSS end mill set, 4 - 16 mm, 7 pcs.
- Mill chuck set ER 25, MT 2, 4 - 16 mm, 8 pcs.
- Precision machine vise PS 50
- 12 pcs. HSS TiN-coated end mills, 3 - 12 mm

Art. no.	excl. VAT
27-1034	
42-1005	
26-1002	
28-2025	
42-1019	



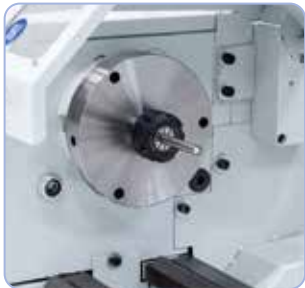
Motor temperature indication comes standard

Machining centre with digital readout

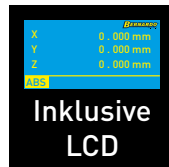
Proficenter 650 G

- Control gear allows easy and quick speed change
- High-quality tapered rollerbearings ensure high concentricity of spindle nose ($\leq 0,009$ mm)
- Powerful motor for high torque, speed range 70 – 2000 rpm
- Wide range of applications: precision mechanics, training and education, etc.
- Logically arranged feed setting allows easy, smooth adjustment
- Solid machine bed with inductive hardened and polished guideways
- Ideal for processing steel, non-ferrous metals and plastics
- Comes complete with leadscrew for thread cutting and automatic longitudinal and cross feed
- Mill head tilts to both sides allowing angular boring, milling of bevels etc.
- Right and left milling spindle rotation comes standard
- Handwheel allows fine spindle feed when milling

**Main spindle bearing
in P5-quality**



The collet chuck ER 25 guarantees high concentricity when clamping workpieces, clamping range 1 - 16 mm.



**No belt change
necessary**



The tiltable mill head offers a variety of applications.

Technical data

Proficenter 650 G

Turning lathe

Distance between centers	650 mm
Center height	140 mm
Swing over bed	280 mm
Bed width	160 mm
Spindle bore	26 mm
Taper at spindle bore	MT 4
Speed range	(12) 70 - 2000 rpm
Longitudinal feed	(15) 0,036 - 0,364 mm/rev.
Cross feed	(15) 0,019 - 0,188 mm/rev.
Metric thread	(27) 0,25 - 5 mm
Inch thread	(20) 6 - 96 threads/1"

Travel of tailstock sleeve	105 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	0,75 kW / 230 V or 400 V
Motor power input S ₆ 40%	1,0 kW / 230 V or 400 V

Milling attachment

Drilling capacity in steel	16 mm
Face mill capacity max.	50 mm
End mill capacity max.	16 mm
Distance spindle to column	150 mm
Spindle speed, stepless	50 - 2250 rpm
Spindle taper	MT 2
Mill head tiltable	-90° to +90°
Height adjustment of mill head	195 mm
Motor power output S ₁ 100%	0,50 kW / 230 V
Motor power input S ₆ 40%	0,75 kW / 230 V

Machine dimension (W x D x H)*	1400 x 720 x 970 mm
Weight approx.	256 kg
Art. no.	03-1227 (230 V) 03-1228 (400 V)

* without stand

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-125 mm according DIN 6350	21-0802	
Soft solid jaws DSJ-DK12-125	21-0865	
Independent chuck K72-125 mm according DIN 6350	21-5002	
Flange 125 mm	03-1752	
Face plate diam. 240 mm	03-1754	
Steady rest	03-17440	
Follow rest Lünette	03-17450	
Economy live center Typ PC - MT 3	22-1002	
Ball nose live center MT 3 / 100 mm	22-1055	
5C fixture with flange	22-1091	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Quick change set model Bernardo size 20, incl. 4 tips	23-1056B	
Costs of assembly for quick change sets**	23-1092	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Multipurpose turning tool set, 12 mm, 9 pcs., set C	44-3084	
6 station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
Stand Deluxe	56-10780	

The machining centre Proficenter 650 G is serially equipped with a leadscrew for thread cutting and the automatic longitudinal and cross feed. The 12-step control gear allow a quick adjustment of the speed – not belt change necessary. The machine is serially equipped with a Bernardo digital readout.

Proficenter 650 G



Independent chuck (optional accessory) allows clamping of irregular shaped workpieces.



Smoothly-running apron with top support and 4-way tool post holder, handwheels with adjustable metric scale.



Steady rest with bronze guiding supports long workpieces.

Excellent illumination by LED machine light



Machine can be equipped with revolving tailstock turret for economic operating



Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck 125 mm
- Flange 125 mm
- Drill chuck 1 - 13 mm / B 16
- Drill chuck arbor MT 2 / B 16
- Dead centers
- Thread dial
- LED machine light
- Change gears
- 4-way tool post holder
- Cross slide with top support
- Digital spindle stroke display
- Digital speed display
- Drawbar M 10
- Chuck guard
- Leadscrew cover
- Splash guard
- Tools

Optional accessories:

- Tilttable rotary table RT 4 S
- 2 flute HSS end mill set, 4 - 16 mm, 7 pcs.
- Mill chuck set ER 25, MT 2, 4 - 16 mm, 8 pcs.
- Precision machine vise PS 50
- 12 pcs. HSS TiN-coated end mills, 3 - 12 mm

Art. no.	excl. VAT
27-1034	
42-1005	
26-1002	
28-2025	
42-1019	

NEW

Machining centre

Proficenter 700 BQV

- Electronic, stepless speed setting allows optimal adjustment to workpiece
- Comes complete with feed rod for automatic longitudinal and cross feed
- Inductive hardened, polished machine bed features a large surface
- Standard 38 mm spindle bore allows machining of shafts with a large diameter
- Manufactured according to strict Bernardo quality regulations
- Tilttable mill head extends application area enormously
- Milling unit features digital display for spindle stroke and speed
- Top slide adjustable along the x-axis
- Right and left milling spindle rotation comes standard
- Handwheel allows fine spindle feed when milling



**Main spindle bearing
in P5-quality**

Inclusive: BERNARDO
3-jaw chuck 160 mm



Soft solid jaws, soft
top jaws, hard top jaws
available

Optional available:
40 pos. tool post and holder set
system Multifix and collet
chuck ER 25

**With safety clutch and
micro-meter longitudinal fence**



**Digital
speed indication**

Technical data	Proficenter 700 BQV
Turning lathe	
Distance between centers	700 mm
Center height	150 mm
Swing over bed	280 mm
Spindle bore	38 mm
Taper at spindle bore	MT 5
Speed range, stepless	50 - 1000 / 100 - 1800 rpm
Longitudinal feed	(14) 0,07 - 0,65 mm/rev.
Cross feed	(11) 0,03 - 0,12 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	85 mm
Taper of tailstock sleeve	MT 3
T-slot size for cross slide	12 mm
Motor power output S ₁ 100%	1,1 kW / 230 V
Motor power input S ₆ 40%	1,5 kW / 230 V
Milling attachment	
Drilling capacity max.	20 mm
Face mill capacity max.	63 mm
End mill capacity max.	20 mm
Distance spindle to column	170 mm
Spindle speed, stepless	50 - 2250 rpm
Spindle taper	MT 2
Mill head tilttable	-90° to +90°
Mill head height adjustable	260 mm
Motor power output S ₁ 100%	0,60 kW / 230 V
Motor power input S ₆ 40%	0,90 kW / 230 V
Machine dimension (W x D x H)*	1380 x 640 x 1020 mm
Weight approx.	298 kg
Art. no.	03-1249
	03-1250B**

* without stand

** with 2 axis digital readout

Optional accessories:

4-jaw chuck DK12-160 mm according DIN 6350	Art. no.	excl. VAT
Soft solid jaws DSJ-DK11-160	21-0803	
Soft solid jaws DSJ-DK12-160	21-0853	
Independent chuck K72-160 mm according DIN 6350	21-0866	
Face plate diam. 240 mm	21-5003	
Flange 160 mm for independent chuck K 72 - 160 mm	03-1789	
Flange 160 mm for chuck DK 11 / DK 12 - 160 mm	03-1797	
Economy live center Typ PC - MT 3	03-1799	
Follow rest	22-1002	
Steady rest	03-1805	
40 pos. tool post & holder set System Multifix size A, incl. 4 tps	03-1800	
Costs of assembly for quick change set**	23-1000	
Multipurpose turning tool set, 12 mm, 9 pcs.	23-1092	
4 station revolving tailstock turret MT 2 incl. inserts	44-3084	
Morse taper drill sleeve MT 3 / 2	22-1069	
Stand D6 Deluxe	24-1022	
Stand D8 Deluxe	56-1062	
	56-1064	

Our top model Proficenter 700 BQV meets the highest requirements of precision mechanics, workshops etc. Drilling, milling and turning is achievable on smallest space. The machines combine many features, such as a big spindle bore and a digital display for drilling depth and speed. To reduce the non-productive time, this model is also available with a 2-axis digital readout.

Proficenter 700 BQV



Independent chuck 160 mm for clamping of irregular shaped workpieces. (optional)



The machine can be equipped with a revolving tailstock turret to increase productivity.



Apron features handwheels with scales and an automatic cross feed.

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1250B)
- 3-jaw chuck DK11-160 mm
- Flange 160 mm
- Drill chuck 1 - 13 mm / B 16
- Drill chuck arbor MT 2 / B 16
- Dead center
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Digital spindle stroke indication
- Digital speed indication
- Thread dial
- Drawbar M 10
- Chuck guard
- Leadscrew cover
- Splash guard
- Tools

Motor temperature indication come standard



The tiltable mill head offers a variety of applications.

Stepless speed adjustment

Optional accessories:

- Aut. reversible tapping chuck set SUPER M 5 - M 12
- Keyless drill chuck 1 - 16 mm / B 16
- 20 pcs. HSS TiN-coated end mills, 3 - 20 mm
- Mill chuck set ER 40, MT 2, 3 - 25 mm, 16 pcs.
- Precision machine vise PS 50
- Edge finder with indicator lamp MT 2

Art. no.	excl. VAT
24-1096	
24-1082	
42-1020	
26-1005	
28-2025	
32-1062	

Machining centre

Proficenter 700 TOP

- Suitable for processing of steel, non-ferrous metals and plastics
- Electronically adjustable, stepless speed setting comes standard
- High concentricity of hardened spindle nose – better than 0.009 mm
- Main spindle bearing with adjustable taper roller bearings in P5-quality
- Comes complete with feed rod for automatic longitudinal and cross feed
- Solid machine bed with inductive hardened and polished guideways
- Mill head with digital display for spindle stroke and speed
- Mill head tilts to both sides allowing angular boring, milling of bevels etc.
- Spindle adjustment via handle, fine feed via handwheel
- Three-phase motor with frequency inverter for higher performance and high torque



The machine can be equipped with a quick change tool post holder to raise efficiency.

Inclusive BERNARDO
3-jaw chuck



Soft solid jaws, soft
top jaws, hard top jaws
available

BERNARDO
www.bernardo.at
SEMIPROFESSIONAL

Main spindle bearing
in P5-quality



Digital speed indication

Technical data

Proficenter 700 TOP

Turning lathe

Distance between centers	700 mm
Center height	150 mm
Swing over bed	300 mm
Spindle bore	38 mm
Taper at spindle bore	MT 5
Speed range, stepless	70 - 380 / 380 - 2000 rpm
Longitudinal feed	(14) 0,07 - 0,65 mm/rev.
Cross feed	(11) 0,03 - 0,12 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	85 mm
Taper of tailstock sleeve	MT 3
T-slot size at cross slide	12 mm
Motor power output S ₁ 100%	0,85 kW / 230 V
Motor power input S ₆ 40%	1,1 kW / 230 V

Milling attachment

Drilling capacity max.	20 mm
Face mill capacity max.	63 mm
End mill capacity max.	20 mm
Distance spindle to column	170 mm
Spindle speed, stepless	50 - 2250 rpm
Spindle taper	MT 2
Mill head tiltable	-90° to +90°
Height adjustment of mill head	260 mm
Motor power output S ₁ 100%	0,60 kW / 230 V
Motor power input S ₆ 40%	0,90 kW / 230 V

Machine dimension (W x D x H)*	1380 x 640 x 1020 mm
Weight approx.	298 kg
Art. no.	03-1251
	03-1252B**

* without stand

** with 2 axis digital readout

Optional accessories:

4-jaw chuck DK12-160 mm according DIN 6350	21-0803
Soft solid jaws DSJ-DK11-160	21-0853
Soft solid jaws DSJ-DK12-160	21-0866
Independent chuck K72-160 mm according DIN 6350	21-5003
Face plate diam. 240 mm	03-1789
Flange 160 mm for independent chuck K 72 - 160 mm	03-1797
Flange 160 mm for chuck DK 11 / DK 12 - 160 mm	03-1799
Economy live center Typ PC - MT 3	22-1002
Ball nose live center MT 3 - 80 mm	22-1051
Follow rest	03-1807
Steady rest	03-1806
5C fixture for Profi(center) 700 series	22-1092
Collet set 5C, 3 - 26 mm, 24-pcs.	22-1097
40 pos. tool post & holder set System Multifix size A, incl. 4 tips	23-1000
Costs of assembly for quick change set**	23-1092
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084
Stand D6 Deluxe	56-1062
Stand D8 Deluxe	56-1064

Art. no. - excl. VAT

The new model Proficenter 700 Top comes complete with a frequency inverter which brings advantages, such as high torque in low speed range and nearly constant speed during processing. The extensive range of accessories (DC-motor with frequency inverter, main spindle bearing in P5-quality, micrometric longitudinal fence for repetitive work, safety clutch etc.) makes this model ideal for users with high demands.

Proficenter 700 TOP



Optionally available: 5C round hole collet set, clamping area 3-26 mm



Comes complete with 38 mm spindle bore to allow processing of workpieces with a large shaft diameter



The tailstock with one-hand clamping can be moved for taper turning and is optionally available with a ball nose live center

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1252B)
- 3-jaw chuck DK11-160 mm
- Flange 160 mm
- Drill chuck 1 - 13 mm / B 16
- Drill chuck arbor MT 2 / B 16
- Dead centers
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Frequency inverter
- Drawbar M 10
- Digital spindle stroke indication
- Digital speed indication
- Thread dial
- Chuck guard
- Leadscrew cover
- Splash guard
- Tools



The tiltable mill head offers a variety of applications.

**With Delta-frequency inverter
for ideal running characteristics**

Optional accessories:

- Aut. reversible tapping chuck set SUPER M 5 - M 12
- Keyless drill chuck 1 - 16 mm / B 16
- 20 pcs. HSS TiN-coated end mills, 3 - 20 mm
- Mill chuck set ER 40, MT 2, 3 - 25 mm, 16 pcs.
- Precision machine vise PS 50
- Edge finder with indicator lamp MT 2

Art. no.	excl. VAT
24-1096	
24-1082	
42-1020	
26-1005	
28-2025	
32-1062	

Machining centre

Proficenter 880 G Vario

- Complete with 38 mm spindle bore to allow processing of large shaft diameters
- Strongly reinforced machine bed featuring induction-hardened, polished guide
- Universal in use: longitudinal turning, facing, profiling, thread cutting etc.
- Change gears for cutting of metric threads are part of the standard accessories
- Serially with Delta frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Main spindle features adjustable tapered roller bearings in P5 quality
- Mill head with digital display for spindle stroke and speed
- Mill head tilts to both sides allowing angular boring, milling of bevels etc.
- Suitable for processing of steel, non-ferrous metals and plastics
- User-friendly arrangement of control elements on gear head
- Tailstock features single-lever clamping, adjustable for taper turning



Convenient pre-selection of gears via reduction gearing, potentiometer allows for speed adjustment.



Inclusive: BERNARDO
3-jaw chuck



Soft solid jaws, soft
top jaws, hard top jaws
available

BERNARDO[®]
SEMIPROFESSIONAL

Technical data

Proficenter 880 G Vario

Turning lathe

Distance between centers	880 mm
Center height	160 mm
Swing over bed	320 mm
Spindle bore	38 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range, stepless	75 - 435 / 400 - 2250 rpm
Longitudinal feed	(15) 0,07 - 1,0 mm/rev.
Cross feed	(15) 0,017 - 0,25 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 threads/1"
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 3
T-slot size at cross slide	12 mm
Motor power output S ₁ 100%	1,5 kW / 230 V or 400 V
Motor power input S ₆ 40%	2,2 kW / 230 V or 400 V

Milling attachment

Drilling capacity max.	20 mm
Face mill capacity max.	63 mm
End mill capacity max.	20 mm
Distance spindle to column	170 mm
Spindle speed, stepless	50 - 2250 rpm
Spindle taper	MT 2
Mill head tiltable	-90° to +90°
Height adjustment of mill head	260 mm
Motor power output S ₁ 100%	0,60 kW / 230 V
Motor power input S ₆ 40%	0,90 kW / 230 V

Machine dimension (W x D x H)*	1660 x 650 x 1090 mm
Weight approx.	318 kg
Art. no.	03-1233 (230 V**) 03-1231 (400 V) 03-1232 (400 V**)

* without stand

** with 2 axis digital readout

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck 160 mm / D4, according DIN 55029	21-5058B	
Follow rest	03-1672	
Steady rest	03-1671	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	
Coolant pump with plastic tank 10 l - (self installed) ¹		
5C fixture with direct mount, D1-4	22-1095	
5C round hole collet set, 3 - 26 mm, 24-pcs.	22-1097	
Quick change tool post and holder set System Multifix, size E	23-1001	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
3 station revolving tailstock turret MT 2	22-1068	
Stand D12 Deluxe	56-1053	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

The Proficenter 880 G Vario features a reduction gear as standard, which eliminates the need to change speed step using V-belt. Another feature of this machine is the standard frequency inverter, resulting in high torque in the lower speed range and the nearly constant speed at heavy workloads. The machining centre allows drilling, milling and turning on minimum space, comes with a digital display of drill depth and speed for high comfort and features a large spindle bore.

Proficenter 880 G Vario



Mill head comes with digital display for drill depth and speed – drilling and milling possible at all angles.



Optionally available:
5C round hole collet set,
clamping area 3-26 mm



The standard 38 mm spindle bore allows processing of large shaft diameters.



Hardened spindle, high-quality taper bearings ensure high concentricity of spindle nose (≤ 0.009 mm)



**Accurate
speed adjustment**

Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1233 / 03-1232)
- 3-jaw chuck DK11-160 mm / D4
- Drill chuck 1 - 13 mm / B 16
- Drill chuck arbor MT 2 / B 16
- Dead centers
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Frequency inverter
- Drawbar M 10
- Digital spindle stroke indication
- Digital speed indication
- Thread dial
- LED machine light
- Chuck guard
- Leadscrew cover
- Splash guard
- Tools

Optional accessories:

- Aut. reversible tapping chuck set SUPER M 5 - M 12
- Keyless drill chuck 1 - 16 mm / B 16
- 20 pcs. HSS TiN-coated end mills, 3 - 20 mm
- Mill chuck set ER 40, MT 2, 3 - 25 mm, 16 pcs.
- Precision machine vise PS 50
- Edge finder with indicator lamp MT 2

Art. no.	excl. VAT
24-1096	
24-1082	
42-1020	
26-1005	
28-2025	
32-1062	

Machining centre

Proficenter 900 Vario

- Three -phase motor with frequency inverter for higher performance and high torque
- Complete with 38 mm spindle bore to allow processing of large shaft diameters
- Wide range of applications: precision mechanics, training and education, etc.
- Stepless speed adjustment as part of standard accessories, set speed can be read on digital display
- Feed settings are logically arranged, easy to control with top accuracy
- Suitable for processing of steel, non-ferrous metals and plastics
- Prism bed with large support surface, inductively hardened and polished
- Precise spindle bearing with two adjustable precision taper roller bearings
- Mill head with digital display for spindle stroke and speed
- Mill head tilts to both sides allowing angular boring, milling of bevels etc

Inclusive: BERNARDO
3-jaw chuck



Soft solid jaws, soft top jaws, hard top jaws available



Electronic, stepless speed adjustment – easily read on digital display.



Technical data

Proficenter 900 Vario

Turning lathe

Distance between centers	900 mm
Center height	160 mm
Swing over bed	320 mm
Spindle bore	38 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range, stepless	75 - 500 / 300 - 2000 rpm
Longitudinal feed	(15) 0,07 - 1,0 mm/rev.
Cross feed	(15) 0,017 - 0,25 mm/rev.
Metric thread	(18) 0,2 - 3,5 mm
Inch thread	(21) 8 - 56 Gg/1"
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 3
T-slot size at cross slide	12 mm
Motor power output S ₁ 100%	1,5 kW / 230 V or 400 V
Motor power input S ₆ 40%	2,2 kW / 230 V or 400 V

Milling attachment

Drilling capacity max.	20 mm
Face mill capacity max.	63 mm
End mill capacity max.	20 mm
Distance spindle to column	170 mm
Spindle speed, stepless	50 - 2250 rpm
Spindle taper	MT 2
Mill head tiltable	-90° to +90°
Height adjustment of mill head	260 mm
Motor power output S ₁ 100%	0,60 kW / 230 V
Motor power input S ₆ 40%	0,90 kW / 230 V

Machine dimension (W x D x H)*	1650 x 650 x 1120 mm
Weight approx.	303 kg
Art. no.	03-1237 (230 V**) 03-1235 (400 V) 03-1236 (400 V**)

* without stand

** with 2 axis digital readout

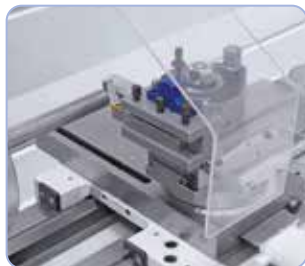
Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck 160 mm / D4, according DIN 55029	21-5058B	
Follow rest	03-1672	
Steady rest	03-1671	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	
Coolant pump with plastic tank 10 l - (self installed) ¹		
5C fixture with direct mount, D1-4	22-1095	
5C round hole collet set, 3 - 26 mm, 24-pcs.	22-1097	
Quick change tool post and holder set System Multifix, size E	23-1001	
Costs of assembly for quick change set**	23-1092	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
3 station revolving tailstock turret MT 2	22-1068	
Stand D12 Deluxe	56-1053	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

The machining centre Proficenter 900 Vario feature a large range of standard accessories (for instance milling attachment, DC-motor with frequency inverter, main spindle bearing in P5-quality, micrometric longitudinal fence, safety clutch, LED machine light,...) making this model ideal for users with high expectations. For reducing the non-productive time, the model is also available with a 2-axis digital readout.

Proficenter 900 Vario



The quick-release tool holder system Multifix clearly reduces downtime and guarantees high accuracy at repetitious work. (optional)



Steady rest with bronze guiding supports long workpieces.



The machine can be equipped with a revolving tailstock turret to increase productivity.

With Delta frequency inverter for optimal running performance

Digital speed indication

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Standard accessories:

- 2-axis digital readout ES-12 V with LCD-display (Art. no. 03-1237 / 03-1236)
- 3-jaw chuck DK11-160 mm / D4
- Drill chuck 1 - 13 mm / B 16
- Drill chuck arbor MT 2 / B 16
- Dead centers
- Change gears
- 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Cross slide with top support
- Frequency inverter
- Drawbar M 10
- Digital spindle stroke indication
- Digital speed indication
- Thread dial
- LED machine light
- Chuck guard
- Leadscrew cover
- Splash guard
- Tools

Optional accessories:

- Aut. reversible tapping chuck set SUPER M 5 - M 12
- Keyless drill chuck 1 - 16 mm / B 16
- 20 pcs. HSS TiN-coated end mills, 3 - 20 mm
- Mill chuck set ER 40, MT 2, 3 - 25 mm, 16 pcs.
- Precision machine vise PS 50
- Edge finder with indicator lamp MT 2

Art. no.	excl. VAT
24-1096	
24-1082	
42-1020	
26-1005	
28-2025	
32-1062	

Precision lathes

Standard 150 Basic / 150 Plus

- Practical machine with lead screw and feed rod for thread cutting and automatic feed
- Removable bridge for processing of workpieces large in diameter
- Rigid prism-shaped bed features additional reinforcements to keep vibrations to a minimum
- Clearly arranged speed and feed control settings, smooth operation and accurate control
- Strongly reinforced prism-shaped machine bed features induction hardened and polished guiding
- Tailstock can be adjusted ± 10 mm to allow taper turning
- Tailstock features single lever clamping, handwheel features adjustable fine scale (0.04mm)
- Tailstock, spindle stock and all guides are re-adjustable
- Top slide with scale (0.02mm) swivels $\pm 45^\circ$

Including BERNARDO
3-jaw chuck 160 mm



Soft solid jaws, soft
top jaws, hard top jaws
available



Convenient controls, all switches and control elements are clearly arranged on gear head.



Independent chuck 200 mm (Standard), ideal for clamping of asymmetrical workpieces.



Smooth running, precise apron with top support and 4-way tool post holder, handwheels feature adjustable metric fine scale.

**Best
price**



Feed unit is smooth running and accurate to control, saturated in oil.



Optionally available: 6 station revolving tailstock turret



Change gears for thread cutting come standard.

Technical data	Standard 150 Basic	Standard 150 Plus
Distance between centers	1000 mm	1000 mm
Center height	165 mm	165 mm
Swing over bed	330 mm	330 mm
Swing over gap*	430 mm	430 mm
Swing over cross slide	180 mm	180 mm
Bed width	180 mm	180 mm
Spindle bore	40 mm	40 mm
Spindle nose fixture	DIN 55029, D1-4	DIN 55029, D1-4
Speed range	(9) 75 - 1400 rpm	(9) 75 - 1400 rpm
Longitudinal feed	(40) 0,053 - 1,29 mm/rev.	(40) 0,053 - 1,29 mm/rev.
Cross feed	(40) 0,013 - 0,31 mm/rev.	(40) 0,013 - 0,31 mm/rev.
Metric thread	(32) 0,4 - 7 mm	(32) 0,4 - 7 mm
Inch thread	(36) 4 - 60 threads/1"	(36) 4 - 60 threads/1"
Travel of tailstock sleeve	110 mm	110 mm
Taper of tailstock sleeve	MT 3	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)	2,2 kW (400 V)
Machine dimension (W x D x H)	1600 x 700 x 1280 mm	1600 x 700 x 1280 mm
Weight approx.	455 kg	470 kg
Art. no.	03-1255	03-1256

Standard accessories:

- 3-jaw chuck DK11-160 mm / D4
- Independent chuck 200 mm / D4, according DIN 55029
- Steady rest - Passage up to 60 mm
- Follow rest - Passage up to 60 mm
- Face plate 250 mm
- 4-way tool post holder
- Protective device at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Chip tray (Basic)
- Extractable chip tray (Plus)
- Splash guard
- 2 dead centers
- Thread dial
- Morse taper drill sleeve
- LED machine light
- Change gears
- Coolant device (Plus)
- Motor with magnetic brake according to CE
- Foot pedal with brake function according to CE (Plus)
- Stand
- Tools

* Removable bed length: 220 mm

The Standard 150 Basic and Standard 150 Plus are compact precision lathes. The attractive price to performance ratio along with the wide range of accessories makes these models ideal for ambitious amateurs. Furthermore, the 150 Plus model is equipped with a foot brake and coolant device.

Standard 150 Basic / 150 Plus

Wide range of standard equipment

Main spindle bearing in P5 quality

Add on the optional quick change tool post holder to maximize efficiency.



BERNARDO
HOBBY

Optional accessories

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
4-jaw chuck DK12-200 mm / D4, according DIN 55029	21-0833F	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 160 mm according DIN 55029, D1-4	21-4053	
Flange FL 200 mm according DIN 55029, D1-4	21-4055	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	

Optional accessories

	Art. no.	excl. VAT
Quick change tool post and holder set System Multifix, size E	23-1001	
Costs of assembly for quick change set**	23-1092	
Coolant pump with plastic tank 10 l - (self installed) ¹		
5C fixture with direct mount, D1-4	22-1095	
5C round hole collet set, 3 - 26 mm, 24-pcs.	22-1097	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Carbide turning tool set 12 mm, 6 pcs. incl. boring bar	44-2052	
Multipurpose indexable turning tool set, 12 mm, 7 pcs.	44-3077	
Multipurpose turning tool set, 12 mm, 9-pcs.	44-3084	
6 station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	

¹ Alternatively in 230 V (Art. no. 51-1003) or 400 V (Art. no. 51-1004)

Precision lathe with vario drive

- This model comes with frequency converter for variable speed setting
- Stepless speed adjustment, set speed can be read on digital display
- 40 mm spindle bore to machine large shaft diameters comes standard
- Removable bridge allows machining of workpieces with a big diameter
- Extractable chip tray minimizes space requirements
- Removable tailstock for taper turning, handwheel features adjustable fine scale (0.04mm)
- Strongly reinforced prism-shaped machine bed features induction hardened and polished guiding
- Clearly arranged speed and feed control settings, smooth operation and accurate control
- Tailstock, spindle stock and all guides are re-adjustable
- Top slide with scale (0.02mm) swivels $\pm 45^\circ$



Optionally available:
5C fixture, clamping
area 3 - 26 mm



Convenient controls, all switches and control elements are clearly arranged on gear head. Feed unit is smooth running and accurate to control, saturated in oil.

Inclusive BERNARDO
3-jaw chuck 160 mm



Soft solid jaws, soft
top jaws, hard top jaws
available



Advantage of Bernardo chuck
DK11-160 mm: solid, master, top and
reversible jaws are optionally available.



Micrometer longitudinal fence and safety
clutch are part of standard equipment.



Complete with steady and follow
rest to allow for solid support of
long workpieces.



Hardened spindle, high-quality taper
bearings ensure high concentricity of
spindle nose (≤ 0.009 mm)

**Best
price**

Vario-drive

**Spindle bore
40 mm**

Technical data

Standard 150 V-Plus

Distance between centers	1000 mm
Center height	165 mm
Swing over bed	330 mm
Swing over gap*	430 mm
Swing over cross slide	180 mm
Bed width	180 mm
Spindle bore	40 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range, stepless	70 - 400 / 350 - 2000 rpm
Longitudinal feed	(40) 0,053 - 1,29 mm/rev.
Cross feed	(40) 0,013 - 0,31 mm/rev.
Metric thread	(32) 0,4 - 7 mm
Inch thread	(36) 4 - 60 threads/1"
Travel of tailstock sleeve	110 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1600 x 700 x 1280 mm
Weight approx.	478 kg
Art. no.	03-1257

* Removable bed length: 220 mm

Standard accessories:

- 3-jaw chuck DK11-160 mm / D4
- Independent chuck 200 mm / D4, according DIN 55029
- Steady rest - Passage up to 60 mm
- Follow rest - Passage up to 60 mm
- Face plate 250 mm
- 4-way tool post holder
- Protective device at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Extractable chip tray
- Splash guard
- 2 dead centers
- Thread dial
- Morse taper drill sleeve
- LED machine light
- Digital speed indication
- Change gears
- Coolant device
- Frequency inverter
- Foot pedal with brake function according to CE
- Stand
- Tools



Smooth running, precise apron with
top support and 4-way tool post
holder, handwheels feature
adjustable metric fine scale.

The turning lathe Standard 150 V-Plus exceeds all expectations due to the stable construction and easy handling. This model includes a wide range of standard equipment which features an optimal performance with low investment and makes it popular for craftsmen. Additionally this model is equipped with a variable speed adjustment for ideal setting of the cutting speed.

Standard 150 V-Plus



Main spindle bearing in P5 quality

Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts. (optional)



Optional accessories

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
4-jaw chuck DK12-200 mm / D4, according DIN 55029	21-0833F	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 160 mm according DIN 55029, D1-4	21-4053	
Flange FL 200 mm according DIN 55029, D1-4	21-4055	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	

Optional accessories

	Art. no.	excl. VAT
Quick change tool post and holder set System Multifix, size E	23-1001	
Costs of assembly for quick change set**	23-1092	
5C fixture with direct mount, D1-4	22-1095	
5C round hole collet set, 3 - 26 mm, 24-pcs.	22-1097	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Carbide turning tool set 12 mm, 6 pcs. incl. boring bar	44-2052	
Multipurpose turning tool set, 12 mm, 9-pcs.	44-3084	
6 station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
10 pcs. set metric size center drills	41-1071	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Precision lathes

Standard 165 Plus

- Wide range of applications include: training workshops, tool construction, repair shops etc.
- Prism-shaped grey cast-iron machine bed, induction hardened and precisely polished
- Speed and feed change features clear arrangement, accurate control and smooth operation
- Practical lathe with leadscrew and feed rod for thread cutting and automatic feed
- Single lever clamping on tailstock, adjustable for taper turning
- Removable bridge allows processing of workpieces with large diameter
- Spindle bearing features 2 adjustable precision bearings
- Hardened and polished gear wheels and shafts
- Extractable chip tray reduces space requirements
- Electro-mechanic foot brake clearly reduces downtime



The collet fixture ER 25 guarantees high concentricity when clamping workpieces, clamping area 1-16 mm.



Straightforward feed and speed setting on gear head. Hardened and polished gear wheels saturated in oil ensure smooth operation.

High spindle concentricity $\leq 0,009$ mm

Optimal price-performance ratio



Advantage of Bernardo chuck DK11-160 mm: solid, master, top and reversible jaws are optionally available.



Micrometer longitudinal fence and safety clutch are part of standard equipment.

Inclusive BERNARDO 3-jaw chuck 160 mm



Powerful motor with magnetic brake in accordance with CE-standards.



Steady rest with bronze guide to stabilize long workpieces.

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Technical data

Standard 165 Plus

Distance between centers	1000 mm
Center height	175 mm
Swing over bed	350 mm
Swing over gap*	450 mm
Swing over cross slide	190 mm
Bed width	180 mm
Spindle bore	40 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range	(8) 70 - 2000 rpm
Longitudinal feed	(40) 0,053 - 1,29 mm/rev.
Cross feed	(40) 0,013 - 0,31 mm/rev.
Metric thread	(32) 0,4 - 7 mm
Inch thread	(36) 4 - 60 threads/1"
Travel of tailstock sleeve	110 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1730 x 700 x 1340 mm
Weight approx.	495 kg
Art. no.	03-1258

* Removable bed length: 220 mm

Standard accessories:

- 3-jaw chuck DK11-160 mm / D4
- Independent chuck 200 mm / D4, according DIN 55029
- Steady rest - Passage up to 60 mm
- Follow rest - Passage up to 60 mm
- Face plate 250 mm
- 4-way tool post holder
- Protective device at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Coolant device
- Extractable chip tray
- Motor with magnet brake according CE
- Foot pedal with brake function according CE
- Splash guard
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Stand

Main spindle bearing in P5 quality



Removable bridge for processing of workpieces up to 450 mm in diameter.

The Standard 165 Plus turning lathe is an enhanced version of the reliable 150- models. The feed drive was given an overhaul in terms of user-friendliness and the gear head design received a state of the art look. This model is best suitable for ambitious amateurs who enjoy a broad range of standard accessories, making this machine optimal with regards to price and benefit.

Standard 165 Plus

Excellent illumination by LED machine light

Optionally available:
6-station revolving tailstock turret



Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
4-jaw chuck DK12-200 mm / D4, according DIN 55029	21-0833F	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 160 mm according DIN 55029, D1-4	21-4053	
Flange FL 200 mm according DIN 55029, D1-4	21-4055	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 / 100 mm	22-1055	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Multipurpose turning tool set, 12 mm, 9 pcs.	44-3084	

Optional accessories:

	Art. no.	excl. VAT
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
5C fixture with direct mount D1-4	22-1095	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
ER 25 collet fixture - D 100	22-1084	
ER 25 round hole collets set, 1 - 16 mm, 15 pcs.	26-1022	
6 station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
12 pcs. set metric size center drills	41-1070	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Precision lathes

Standard 165 D Standard 165 Top

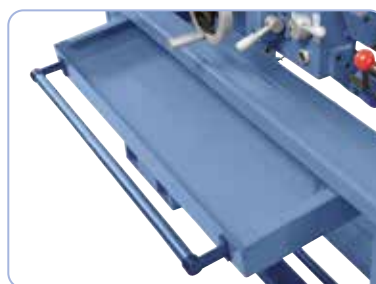
- Entire range of equipment: 3-axis digital readout, LED machine lamp, machine stand and many more
- Practical machine with leadscrew and feed rod for thread cutting and automatic feed
- Removable bridge allows processing of workpieces of large diameter
- Solid prism-shaped machine bed features additional reinforcements to keep vibrations to a minimum
- Clearly arranged speed and feed control settings, smooth operation and accurate control
- Strongly reinforced prism-shaped machine bed features induction hardened and polished guiding
- Hardened and polished main spindle, saturated in oil
- Removable tailstock for taper turning, handwheel features adjustable fine scale (0.04mm)
- Extractable chip tray minimizes space requirements



Smooth running, accurate apron features top support and 4-way tool post holder, handwheels come with adjustable metric fine scaling.



Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts. (optional)



Complete with extractable chip tray.

Inklusive BERNARDO
3-jaw chuck 160 mm



Soft solid jaws, soft
top jaws, hard top jaws
available

Drive motor with magnetic
brake according to CE



Optionally available: 5C fixture, clamping area 3 - 26 mm



4-jaw independent chuck
200 mm with reversible
jaws comes standard.



Complete with quick change tool
post holder system Multifix
(Standard 165 Top)



Standard accessories include
change gears for thread
cutting.

Main spindle bearing
in P5 quality

Technical data	Standard 165 D	Standard 165 Top
Distance between centers	1000 mm	1000 mm
Center height	175 mm	175 mm
Swing over bed	350 mm	350 mm
Swing over gap*	450 mm	450 mm
Swing over cross slide	190 mm	190 mm
Bed width	180 mm	180 mm
Spindle bore	40 mm	40 mm
Spindle nose fixture	DIN 55029, D1-4	DIN 55029, D1-4
Speed range	(8) 70 - 2000 rpm	(8) 70 - 2000 rpm
Longitudinal feed	(40) 0,053 - 1,29 mm/rev.	(40) 0,053 - 1,29 mm/rev.
Cross feed	(40) 0,013 - 0,31 mm/rev.	(40) 0,013 - 0,31 mm/rev.
Metric thread	(32) 0,4 - 7 mm	(32) 0,4 - 7 mm
Inch thread	(36) 4 - 60 threads/1"	(36) 4 - 60 threads/1"
Travel of tailstock sleeve	110 mm	110 mm
Taper of tailstock sleeve	MT 3	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)	2,2 kW (400 V)
Machine dimension (W x D x H)	1730 x 700 x 1340 mm	1730 x 700 x 1340 mm
Weight approx.	514 kg	515 kg
Art. no.	03-1259B	03-1260

* Removable bed length: 220 mm

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-160 mm / D4
- Independent chuck 200 mm / D4, according DIN 55029
- Steady rest - Passage up to 60 mm
- Follow rest - Passage up to 60 mm
- Face plate 250 mm
- 4-way tool post holder (Standard 165 D)
- Quick change tool post holder System Multifix with 4 inserters (165 Top)
- Protective device at tool holder
- Safety clutch
- Micrometer longitudinal fence
- Coolant device
- Extractable chip tray
- Motor with magnetic brake according CE
- Foot pedal with brake function according CE
- Splash guard
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Stand
- Tools

The Standard 165 D and Standard 165 Top precision lathes feature a solid construction and practicality. Making these models truly versatile is the standard equipment which comprises all major accessories such as 3-axis digital readout, rests, LED-machine lamp and safety precautions in accordance with CE-standards. In addition, the Standard 165 Top comes complete with a quick-change tool post holder.

Standard 165 D Standard 165 Top

Inclusive quick change tool post holder with 4 inserts

3-axis digital readout Bernardo comes standard to guarantee high work comfort and more accuracy.

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High spindle concentricity $\leq 0,009$ mm

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
4-jaw chuck DK12-200 mm / D4, according DIN 55029	21-0833F	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 160 mm according DIN 55029, D1-4	21-4053	
Flange FL 200 mm according DIN 55029, D1-4	21-4055	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Multipurpose turning tool set, 12 mm, 9-pcs.	44-3084	

Optional accessories

	Art. no.	excl. VAT
40 pos. tool post & holder set system Multifix, size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
5C fixture with direct mount 5C, D1-4	22-1095	
5C round hole collets set, 3 - 26 mm, 24-tlg.	22-1097	
ER 25 collet fixture - D 100	22-1084	
ER 25 round hole collets set, 1 - 16 mm, 15-pcs.	26-1022	
6 Station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
12 pcs. metric size center drills	41-1070	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Precision lathe with vario drive

- Serially with Delta-frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Stepless speed adjustment, set speed can be read on digital display
- Perfect machine for technical schools, repair shops and training workshops
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- One-hand clamping for tailstock, adjustable for taper turning
- Hardened and polished gear wheels and shafts
- Ideal for processing of steel, non-ferrous materials and plastics
- Removable bridge allows processing of workpieces of large diameter
- Solid prism-shaped machine bed features additional reinforcements to keep vibrations to a minimum
- Clearly arranged speed and feed control settings, smooth operation and accurate control



The collet fixture ER 25 guarantees high concentricity when clamping workpieces, clamping area 1-16 mm.



Convenient controls, all switches and control elements are clearly arranged on gear head.



Advantage of Bernardo chuck DK11-160 mm: solid, master, top and reversible jaws are optionally available.



Electronic, stepless speed adjustment, digital display allows easy readout.



Inclusive: BERNARDO 3-jaw chuck 160 mm



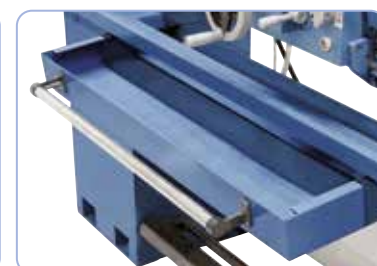
Soft solid jaws, soft top jaws, hard top jaws available



The machine is equipped with a quick change tool post holder to raise efficiency. (Standard 165 V-Top).



Steady rest with bronze guide to stabilize long workpieces.



Complete with extractable chip tray.

Technical data	Standard 165 V-D	Standard 165 V-Top
Distance between centers	1000 mm	1000 mm
Center height	175 mm	175 mm
Swing over bed	350 mm	350 mm
Swing over gap*	450 mm	450 mm
Swing over cross slide	190 mm	190 mm
Bed width	180 mm	180 mm
Spindle bore	40 mm	40 mm
Spindle nose fixture	DIN 55029, D1-4	DIN 55029, D1-4
Speed range, stepless	70 - 400 / 350 - 2000 rpm	70 - 400 / 350 - 2000 rpm
Longitudinal feed	(40) 0,053 - 1,29 mm/rev.	(40) 0,053 - 1,29 mm/rev.
Cross feed	(40) 0,013 - 0,31 mm/rev.	(40) 0,013 - 0,31 mm/rev.
Metric thread	(32) 0,4 - 7 mm	(32) 0,4 - 7 mm
Inch thread	(36) 4 - 60 threads/1"	(36) 4 - 60 threads/1"
Travel of tailstock sleeve	110 mm	110 mm
Taper of tailstock sleeve	MT 3	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)	2,2 kW (400 V)
Machine dimension (W x D x H)	1730 x 700 x 1340 mm	1730 x 700 x 1340 mm
Weight approx.	529 kg	530 kg
Art. no.	03-1261	03-1262

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-160 mm / D4
- Independent chuck 200 mm / D4, according DIN 55029
- Steady rest - Passage up to 60 mm
- Follow rest - Passage up to 60 mm
- Face plate 250 mm
- 4-way tool post holder (Standard 165 V-D)
- Quick change tool post holder System Multifix with 4 inserters (165 V-Top)
- Protective device at tool holder
- Safety clutch
- Micrometer longitudinal fence
- Coolant device
- Extractable chip tray
- Frequency inverter
- Foot pedal with brake function according CE
- Splash guard
- Thread dial
- LED machine light
- Digitale speed indication
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Stand
- Tools

* Removable bed length: 220 mm

The models Standard 165 V-D and 165 V-Top are state of the art machines. The high user-friendliness make these models popular for training purposes and schools. Additionally, these models are equipped with a variable speed adjustment for ideal setting of the cutting speed.

Standard 165 V-D Standard 165 V-Top



Serially with 3-axis digital readout Bernardo ES-12 V with LCD-display.

The tailstock with one-hand clamping can be moved for taper turning and is optionally available with a ball nose live center.

Vario drive



High spindle
concentricity $\leq 0,009$ mm

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
4-jaw chuck DK12-200 mm / D4, according DIN 55029	21-0833F	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft solid jaws DSJ-DK12-160	21-0866	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 160 mm according DIN 55029, D1-4	21-4053	
Flange FL 200 mm according DIN 55029, D1-4	21-4055	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	
Indexable carbide turning tool set, 12 mm, 5 pcs.	44-2014	
Multipurpose turning tool set, 12 mm, 9-pcs.	44-3084	

Optional accessories

	Art. no.	excl. VAT
40 pos. tool post & holder set system Multifix, size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
5C fixture with direct mount 5C, D1-4	22-1095	
5C round hole collets set, 3 - 26 mm, 24-tlg.	22-1097	
ER 25 collet fixture - D 100	22-1084	
ER 25 round hole collets set, 1 - 16 mm, 15-pcs.	26-1022	
6 Station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
12 pcs. metric size center drills	41-1070	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Master 330 Pro

- Solid prism-shaped machine bed features additional reinforcements to keep vibrations to a minimum
- 38 mm spindle bore to machine large shaft diameters comes standard
- Ideal for processing of steel, non-ferrous materials and plastics
- Chip tray extracts to front, keeping space requirements to a minimum
- Clear arranged speed and feed control settings, smooth operation and accurate control
- Electro-magnetic foot brake reduces downtime
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Grey cast-iron machine bed, inductive hardened and polished
- High spindle concentricity ($\leq 0,009$ mm)
- Hardened and polished spindle runs in oil bath
- Tailstock, spindle stock and all guides are adjustable
- Tailstock can be adjusted ± 5 mm for taper turning



The machine can be equipped with a quick change tool post holder to raise efficiency.



Ergonomically arranged control elements on gear head - hardened and polished gears allow for smooth run.



Optionally available: Collet chuck 5C, clamping range 3 - 26 mm



4-jaw chuck 160 mm allows centric clamping of square sections (optional)



Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts (optional).



Integrated LED machine lamp in protective cover for optimal lighting when working.



Serially equipped with change gears for thread cutting.

Spindle brake
according to CE



Technical data

Master 330 Pro

Distance between centers	830 mm
Center height	165 mm
Swing over bed	330 mm
Swing over cross slide	210 mm
Bed width	185 mm
Spindle bore	38 mm
Spindle nose fixture	DIN 55029, D1-4
Speed range	(16) 60 - 2000 rpm
Longitudinal feed	(32) 0,052 - 1,392 mm/rev.
Cross feed	(32) 0,014 - 0,380 mm/rev.
Metric thread	(26) 0,4 - 7,0 mm
Inch thread	(34) 4 - 56 threads/1"
Diameter of tailstock sleeve	32 mm
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1825 x 750 x 1600 mm
Weight approx.	545 kg
Art. no.	03-1277XL 03-1278XL*

* with 3 axis digital readout

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display (03-1278XL)
- 3-jaw chuck DK11-160 mm / D4
- Steady rest - Passage up to 50 mm
- Follow rest - Passage up to max. 30 mm
- Coolant device
- Extractable chip tray
- Face plate 250 mm
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Motor with magnetic brake according to CE
- Stand
- Tools

Master 330 Pro

The Master 330 Pro universal lathe is a fantastic model for small to medium-size turning works. Even its basic configuration includes important accessories, such as 3-jaw chuck, steady and follow rest, change gears etc. increasing the application area of this model significantly. For reducing the non-productive time, the model is also available with a 3-axis digital readout.

Optionally available:
6-station revolving
tailstock turret



Safety clutch included

Optional accessories:	Art. no.	excl. VAT
4-jaw chuck DK12-160 mm / D4, according DIN 55029	21-0832	
Soft solid jaws DSJ-DK11-160	21-0853	
Soft top jaws DSTJ-DK11-160	21-0877	
Soft solid jaws DSJ-DK12-160	21-0866	
Independent chuck 160 mm / D4, according DIN 55029	21-5058B	
Flange FL 160 mm according DIN 55029, D1-4	21-4053	
Economy live center Typ PC - MT 3	22-1002	
Live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 - 100 mm	22-1055	
Indexable carbide turning tool set, 16 mm, 5 pcs.	44-2015	
Carbide turning tool set, 16 mm, 6 pcs. incl. boring bar	44-2053	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	

Optional accessories:	Art. no.	excl. VAT
40 pos. tool post & holder set system Multifix, size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
5C fixture with direct mount 5C, D1-4	22-1095	
5C round hole collets set, 3 - 26 mm, 24-tlg.	22-1097	
ER 25 collet fixture - D 100	22-1084	
ER 25 round hole collets set, 1 - 16 mm, 15-pcs.	26-1022	
6 Station revolving tailstock turret MT 3	22-1071	
Inserts for tailstock turret MT 3	22-1076	
10 pcs. metric size center drills	41-1071	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Master 180

- 51 mm spindle bore to machine large shaft diameters comes standard
- Perfect machine for technical schools, repair shops and training workshops
- Ideal for processing of steel, non-ferrous materials and plastics
- Removable bridge allows machining of workpieces with a big diameter
- Chip tray extracts to front, keeping space requirements to a minimum
- Clear arranged speed and feed control settings, smooth operation and accurate control
- Electro-magnetic foot brake reduces downtime
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Grey cast-iron machine bed, inductive hardened and polished
- One-hand clamping for tailstock, adjustable for taper turning
- High spindle concentricity ($\leq 0,009$ mm)
- Hardened and polished spindle runs in oil bath
- Tailstock, spindle stock and all guides are adjustable

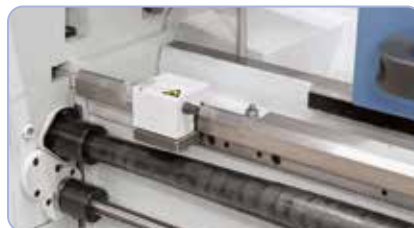


Advantage of Bernardo chuck DK11-200 mm / D5: soft solid jaws, hard master jaws, hard reversible top jaws and soft top jaws are optionally available.



Straightforward feed and speed setting on gear head. Hardened and polished gear wheels saturated in oil ensure smooth operation.

**Spindle bore
51 mm**



Micrometer longitudinal fence and safety clutch are part of standard equipment.

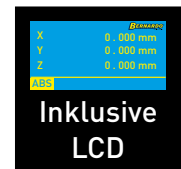


Powerful motor with magnetic brake in accordance with CE-standards.

**Wide range of
standard equipment**



Ball nose live center 125 mm, ideal for clamping of pipes and hollow parts (optional).



**Inklusive
LCD**



Complete with steady and follow rest to allow for solid support of long workpieces.



Standard accessories include change gears for thread cutting.

Technical data

Master 180

Distance between centers	1000 mm
Center height	180 mm
Swing over bed	360 mm
Swing over gap*	480 mm
Swing over cross slide	220 mm
Bed width	185 mm
Spindle bore	51 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	(8) 70 - 2000 rpm
Longitudinal feed	(32) 0,052 - 1,392 mm/rev.
Cross feed	(32) 0,014 - 0,380 mm/rev.
Metric thread	(26) 0,4 - 7,0 mm
Inch thread	(34) 4 - 56 threads/1"
Diameter of tailstock sleeve	42 mm
Travel of tailstock sleeve	110 mm
Taper of tailstock sleeve	MT 4
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1920 x 750 x 1600 mm
Weight approx.	540 kg
Art. no.	03-1264XL

* Removable bed length: 225 mm

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-200 mm / D5
- Independent chuck K72-200 mm / D5
- Steady rest - Passage up to 70 mm
- Follow rest - Passage up to max. 50 mm
- Coolant device
- Initial filling with Shell Tellus 46
- Extractable chip tray
- Face plate 320 mm
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Motor with magnetic brake according to CE
- Stand
- Tools

The Master 180 precision lathe feature a solid construction and practicality. Making this model truly versatile for technical schools, repair shops and training workshops is the standard equipment which comprises all major accessories such as 3-axis digital readout, rests, LED-machine lamp and safety precautions in accordance with CE-standards.

Master 180

**Best
Price**

The machine is serially equipped with a Bernardo digital readout

Safety clutch included

Inclusive: BERNARDO 3-jaw chuck 200 mm



Soft solid jaws, soft top jaws, hard top jaws available



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Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Hard master jaws DMJ-DK11-200	21-0900	
Hard reversible jaws DTJ-DK11-200	21-0922	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 4	22-1003	
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	
Ball nose live center MT 4 / 130 mm	22-1060	
6 station revolving tailstock turret MT 4	22-1072	

Optional accessories:

	Art. no.	excl. VAT
Inserts for tailstock turret MT 4	22-1077	
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
Taper turning attachment	03-1809	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Master 360 Pro

- Solid prism-shaped machine bed features additional reinforcements to keep vibrations to a minimum
- 52 mm spindle bore to machine large shaft diameters comes standard
- Ideal for processing of steel, non-ferrous materials and plastics
- Chip tray extracts to front, keeping space requirements to a minimum
- Clear arranged speed and feed control settings, smooth operation and accurate control
- Electro-magnetic foot brake reduces downtime
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Grey cast-iron machine bed, inductive hardened and polished
- High spindle concentricity ($\leq 0,009$ mm)
- Hardened and polished spindle runs in oil bath
- Tailstock, spindle stock and all guides are adjustable
- Tailstock can be adjusted ± 5 mm for taper turning



The machine can be equipped with a quick change tool post holder to raise efficiency.



Ergonomically arranged control elements on gear head - hardened and polished gears allow for smooth run.



Optionally available: Collet chuck 5C, clamping range 3 - 26 mm



4-jaw chuck 200 mm allows centric clamping of square sections (optional)



Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts (optional).



Integrated LED machine lamp in protective cover for optimal lighting when working.



Serially equipped with change gears for thread cutting.

Wide range of standard equipment

Spindle brake according to CE



Inclusive: BERNARDO 3-jaw chuck 200 mm

Soft solid jaws, soft top jaws, hard top jaws available

Technical data	Master 360 Pro
Distance between centers	1000 mm
Center height	180 mm
Swing over bed	360 mm
Swing over cross slide	220 mm
Bed width	185 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	(8) 70 - 2000 rpm
Longitudinal feed	(32) 0,052 - 1,392 mm/rev.
Cross feed	(32) 0,014 - 0,380 mm/rev.
Metric thread	(26) 0,4 - 7,0 mm
Inch thread	(34) 4 - 56 threads/1"
Diameter of tailstock sleeve	42 mm
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 4
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1825 x 750 x 1600 mm
Weight approx.	575 kg
Art. no.	03-1272XL

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-200 mm / D5
- Independent chuck K72-200 mm / D5
- Steady rest - Passage up to 70 mm
- Follow rest - Passage up to max. 60 mm
- Coolant device
- Initial filling with Shell Tellus 46
- Extractable chip tray
- Face plate 280 mm
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Motor with magnetic brake according to CE
- Stand with drawers
- Tools

Inklusive LCD

Best Price

The Master 360 Pro is a solidly constructed universal lathe, offering a wide range of applications. Features of this model include the large turning diameter of 360 mm and the 52 mm spindle bore. Its construction (design, performance, feeds etc) covers all needs for training purposes, as well as for tool shops and repair shops.

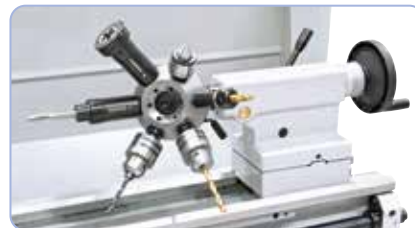
Master 360 Pro

Turning lathes

Spindle bore
52 mm

Optionally available:
6-station revolving
tailstock turret

Serially with 3-axis digital
readout Bernardo ES-12 V
with LCD-display.



Safety clutch
included

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Hard master jaws DMJ-DK11-200	21-0900	
Hard reversible jaws DTJ-DK11-200	21-0922	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 3	22-1002	
Medium duty live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 / 100 mm	22-1055	
6 station revolving tailstock turret MT 3	22-1071	

Optional accessories:

	Art. no.	excl. VAT
Inserts for tailstock turret MT 3	22-1076	
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
Taper turning attachment	03-1809	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with stepless speed

- Serially with Delta-frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Stepless speed adjustment, set speed can be read on digital display
- Solid prism-shaped machine bed features additional reinforcements to keep vibrations to a minimum
- 52 mm spindle bore to machine large shaft diameters comes standard
- Ideal for processing of steel, non-ferrous materials and plastics
- Clear arranged speed and feed control settings, smooth operation and accurate control
- Electro-magnetic foot brake reduces downtime
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Grey cast-iron machine bed, inductive hardened and polished
- High spindle concentricity ($\leq 0,009$ mm)
- Hardened and polished spindle runs in oil bath
- Tailstock can be adjusted ± 5 mm for taper turning



The machine can be equipped with a quick change tool post holder to raise efficiency.



Ergonomically arranged control elements on gear head - hardened and polished gears allow for smooth run.



Optionally available: Collet chuck 5C, clamping range 3 - 26 mm



4-jaw chuck 200 mm allows centric clamping of square sections (optional)



Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts (optional).



Integrated LED machine lamp in protective cover for optimal lighting when working.



Serially equipped with change gears for thread cutting.

Variable cutting speed

Steel chuck diam. 200 mm comes standard



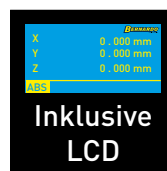
Technical data

Master 360 Pro Vario

Distance between centers	1000 mm
Center height	180 mm
Swing over bed	360 mm
Swing over cross slide	230 mm
Bed width	185 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	30 - 450 / 450 - 3000 rpm
Longitudinal feed	(32) 0,052 - 1,392 mm/rev.
Cross feed	(32) 0,14 - 0,380 mm/rev.
Metric thread	(26) 0,4 - 7,0 mm
Inch thread	(34) 4 - 56 threads/1"
Diameter of tailstock sleeve	42 mm
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1825 x 750 x 1600 mm
Weight approx.	600 kg
Art. no.	03-1276XL

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck P03-200 mm / D5
- Independent chuck 200 mm / D5, according DIN 55029
- Steady rest - Passage up to 70 mm
- Follow rest - Passage up to max. 60 mm
- Coolant device
- Initial filling with Shell Tellus 46
- Extractable chip tray
- Face plate 280 mm
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dial
- Frequency inverter
- Digital readout of speeds
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Stand
- Tools



Best Price

The Master 360 Pro Vario is a solidly constructed universal lathe, offering a wide range of applications. Features of this model include the large turning diameter of 360 mm and the 52 mm spindle bore. Its construction (design, performance, feeds etc) covers all needs for training purposes, as well as for tool shops and repair shops. Additionally this model is equipped with a variable speed adjustment for ideal setting of the cutting speed.

Master 360 Pro Vario

**Spindle bore
52 mm**

Serially with 3-axis digital readout Bernardo ES-12 V with LCD-display.

Optionally available:
6-station revolving tailstock turret



**Safety clutch
included**

Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck PO4-200 mm / D5, according DIN 55029	21-2037F	
Soft solid jaws SJ-PS3-200	21-3204	
Soft top jaws STJ-PS3-200	21-3242	
Hard master jaws MJ-PS3-200	21-3282	
Hard reversible jaws TJ-PS3-200	21-3322	
Soft solid jaws SJ-PS4-200	21-3222	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 3	22-1002	
Medium duty live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 / 100 mm	22-1055	
6 station revolving tailstock turret MT 3	22-1071	

Optional accessories:

	Art. no.	excl. VAT
Inserts for tailstock turret MT 3	22-1076	
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
Taper turning attachment	03-1809	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with constant cutting speed

- Constant cutting speed when face turning, spindle speed automatically adjusts to diameter of work piece
- High surface quality due to the constant cutting speed when facing turning
- Perfect machine for technical schools, repair shops and training workshops
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- One-hand clamping for tailstock, adjustable for taper turning
- Hardened and polished gear wheels and shafts
- Ideal for processing of steel, non-ferrous materials and plastics
- Removable bridge allows processing of workpieces of large diameter
- Solid prism-shaped machine bed features additional reinforcements to keep vibrations to a minimum
- Clearly arranged speed and feed control settings, smooth operation and accurate control



Optionally available:
5C fixture, clamping
area 3 - 26 mm



The solid head stock and the dynamically balanced main spindle ensure accuracy and smoothness even at high speed.

**Spindle bore
51 mm**



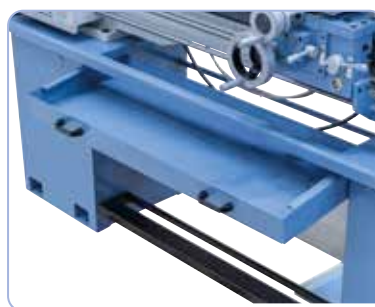
4-jaw chuck 200 mm allows centric clamping of square sections (optional)



Reading the digital display and all settings (speed, feed rate, thread pitch,...) using the touchscreen.



Steady rest with bronze guide to stabilize long workpieces.



Complete with extractable chip tray.

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**Best
Price**

NEW

Technical data Standard 360 V-constant

Distance between centers	1000 mm
Center height	180 mm
Swing over bed	360 mm
Swing over gap*	500 mm
Swing over cross slide	220 mm
Bed width	185 mm
Spindle bore	51 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range, stepless	85 - 390 / 390 - 1800 rpm
Longitudinal feed	(30) 0,02 - 0,75 mm/rev.
Cross feed	(30) 0,02 - 0,75 mm/rev.
Metric thread	(65) 0,08 - 24 mm
Inch thread	(75) 1 - 112 threads/1"
Travel of tailstock sleeve	90 mm
Taper of tailstock sleeve	MT 3
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1920 x 690 x 1760 mm
Weight approx.	620 kg
Art. no.	03-1279XL

* Removable bed length: 210 mm

Standard accessories:

- Control with 2-axis digital display via touchscreen
- 3-jaw chuck 200 mm
- Steady rest - Passage up to 55 mm
- Follow rest - Passage up to 55 mm
- Face plate 260 mm
- 4-way tool post holder
- Protective device at tool holder
- Safety clutch
- Coolant device
- Extractable chip tray
- Frequency inverter
- Servo motor for z- and x-axis
- Foot pedal with brake function according CE
- Splash guard
- Thread dial
- LED machine light
- Digitale speed indication
- Morse taper drill sleeve
- 2 dead centers
- Stand
- Tools

**Wide range of
standard equipment**

**High spindle
concentricity ≤ 0.009 mm**

The Standard 360 V-constant universal lathe feature a solid construction and practicality. Making this model truly versatile for technical schools, repair shops and training workshops is the standard equipment which comprises all major accessories such as 2-axis digital readout, rests, LED-machine lamp and safety precautions in accordance with CE-standards. Furthermore, this model features the additional feature of "constant cutting speed", allowing excellent results when processing work pieces with inconsistent diameters.

Standard 360 V-constant



Constant cutting speed

The tailstock with one-hand clamping can be moved for taper turning and is optionally available with a ball nose live center.



Optional accessories:	Art. no.	excl. VAT
3-jaw chuck DK11-200 mm / D5, according DIN 55029	21-0784	
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Soft solid jaws DSJ-DK12-200	21-0867	
Independent chuck 200 mm / D5, according DIN 55029	21-5060B	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 4	22-1003	
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	
Ball nose live center MT 4 / 130 mm	22-1060	
Indexable carbide turning tool set, 16 mm, 5 pcs.	44-2015	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	

Optional accessories:	Art. no.	excl. VAT
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Collet chuck ER 32 - D 95	22-1086	
Collet set ER 32, 3 - 20 mm, 18-pcs.	26-1023	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	
12 pcs. metric size center drills	41-1070	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Master 380

- 51 mm spindle bore to machine large shaft diameters comes standard
- Perfect machine for technical schools, repair shops and training workshops
- Ideal for processing of steel, non-ferrous materials and plastics
- Removeable bridge allows machining of workpieces with a big diameter
- Chip tray extracts to front, keeping space requirements to a minimum
- Clear arranged speed and feed control settings, smooth operation and accurate control
- Electro-magnetic foot brake reduces downtime
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Grey cast-iron machine bed, inductive hardened and polished
- One-hand clamping for tailstock, adjustable for taper turning
- High spindle concentricity ($\leq 0,009$ mm)
- Hardened and polished spindle runs in oil bath
- Tailstock, spindle stock and all guides are adjustable

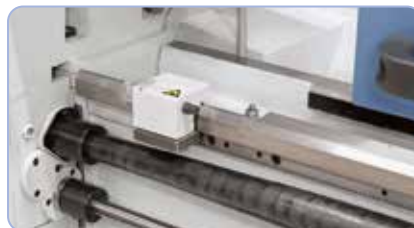


4-jaw chuck 200 mm allows centric clamping of square sections (optional)



Straightforward feed and speed setting on gear head. Hardened and polished gear wheels saturated in oil ensure smooth operation.

**Spindle bore
51 mm**



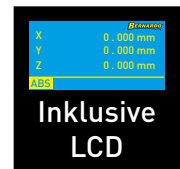
Micrometer longitudinal fence and safety clutch are part of standard equipment.



Powerful motor with magnetic brake in accordance with CE-standards.



Ball nose live center 125 mm, ideal for clamping of pipes and hollow parts (optional).



**Inklusive
LCD**



Complete with steady and follow rest to allow for solid support of long workpieces.



Standard accessories include change gears for thread cutting.

Technical data	Master 380
Distance between centers	1000 mm
Center height	190 mm
Swing over bed	380 mm
Swing over gap*	490 mm
Swing over cross slide	220 mm
Bed width	185 mm
Spindle bore	51 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	(8) 70 - 2000 rpm
Longitudinal feed	(32) 0,052 - 1,392 mm/rev.
Cross feed	(32) 0,014 - 0,380 mm/rev.
Metric thread	(26) 0,4 - 7,0 mm
Inch thread	(34) 4 - 56 threads/1"
Diameter of tailstock sleeve	42 mm
Travel of tailstock sleeve	120 mm
Taper of tailstock sleeve	MT 4
Motor power output S ₁ 100%	1,5 kW (400 V)
Motor power input S ₆ 40%	2,2 kW (400 V)
Machine dimension (W x D x H)	1920 x 800 x 1660 mm
Weight approx.	575 kg
Art. no.	03-1286BXL

* Removeable bed length: 225 mm

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-200 mm / D5
- Independent chuck K72-200 mm / D5
- Steady rest - Passage up to 70 mm
- Follow rest - Passage up to max. 50 mm
- Coolant device
- Initial filling with Shell Tellus 46
- Extractable chip tray
- Face plate 320 mm
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dialGewindeuhr
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Motor with magnetic brake according to CE
- Stand with drawers
- Tools

**Wide range of
standard equipment**

**Safety clutch
included**

The Master 380 precision lathe feature a solid construction and practicality. Making this model truly versatile for technical schools, repair shops and training workshops is the standard equipment which comprises all major accessories such as 3-axis digital readout, rests, LED-machine lamp and safety precautions in accordance with CE-standards.

Master 380

The machine is serially equipped with a Bernardo ES-12 V digital readout.

**Best
Price**

Inclusive: BERNARDO
3-jaw chuck 200 mm



Soft solid jaws, soft
top jaws, hard top jaws
available



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Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Hard master jaws DMJ-DK11-200	21-0900	
Hard reversible jaws DTJ-DK11-200	21-0922	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 4	22-1003	
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	
Ball nose live center MT 4 / 130 mm	22-1060	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	

Optional accessories:

	Art. no.	excl. VAT
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	
Carbide turning tool set, 16 mm, 6 pcs. incl. boring bar	44-2053	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
12 pcs. metric size center drills	41-1070	
Taper turning attachment	03-1809	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Master 400

- Ideal for processing of steel, non-ferrous materials and plastics
- Electro-magnetic foot brake reduces downtime
- Hardened and polished gears also in feed drive
- Practical, solid machine featuring a leadscrew and feed rod
- Grey cast-iron machine bed, inductively hardened and precisely polished
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Machine base in heavy cast iron construction
- Tailstock can be adjusted ± 5 mm for taper turning
- Ideal for technical colleges, repair shops and training purposes
- Easy, smooth and precisely adjustable speed and feed settings
- Chip tray extract to front, keeping space requirements to a minimum
- Removable bridge for processing of workpieces with a large diameter
- Optimal price-benefit ratio, modern design
- Serially equipped with safety clutch



Advantage of Bernardo chuck DK11-200 mm / D5: soft solid jaws, hard master jaws, hard reversible top jaws and soft top jaws are optionally available.



Ergonomically arranged control elements on gear head - hardened and polished gears allow for smooth run.



Optionally available:
6-station revolving tailstock turret



The quick-release tool holder system Multifix clearly reduces downtime and guarantees high accuracy at repetitious work.



Optionally available:
Collet chuck 5C, clamping range 3 - 26 mm



Complete with steady and follow rest to allow for solid support of long workpieces.



The serial face plate (320 mm) allows clamping of irregular shaped workpieces.

Technical data	Master 400
Distance between centers	1000 mm
Center height	200 mm
Swing over bed	400 mm
Swing over gap	560 mm
Swing over cross slide	240 mm
Bed width	210 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	(12) 45 - 2000 rpm
Longitudinal feed	(27) 0,06 - 2,78 mm/rev.
Cross feed	(22) 0,01 - 0,72 mm/rev.
Metric thread	(36) 0,8 - 14 mm
Inch thread	(30) 2 - 28 threads/1"
Diameter of tailstock sleeve	45 mm
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 4
Motor power	2,0 / 2,4 kW
Machine dimension (W x D x H)	1860 x 800 x 1600 mm
Weight approx.	810 kg
Art. no.	03-1289BXL



Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-200 mm / D5
- Independent chuck 200 mm / D5, according DIN 55029
- Steady rest -
• Passage up to max. 90 mm
- Follow rest -
• Passage up to max. 70 mm
- Coolant device
- Initial filling with Shell Tellus 46
- Extractable chip tray
- Face plate 320 mm
- 4-way tool post holder
- Protective device at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Motor with magnetic brake according to CE

**3-jaw chuck
(Ø 200mm) included**

**Wide range of
standard equipment**

**High spindle
concentricity ≤ 0.009 mm**

Master 400

The Master 400 is a solidly constructed universal lathe, offering a wide range of applications. Features of this model include the large turning diameter of 400 mm and the 52 mm spindle bore. Its construction (design, performance, feeds etc) covers all needs for training purposes, as well as for tool shops and repair shops.

The machine is equipped with a digital readout to reduce non-productive time.

Including 3-axis digital readout with LCD-display

Spindle bore 52 mm



Spindle taper
DIN 55029

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Hard master jaws DMJ-DK11-200	21-0900	
Hard reversible jaws DTJ-DK11-200	21-0922	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 4	22-1003	
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	
Ball nose live center MT 4 / 130 mm	22-1060	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	

Optional accessories:

	Art. no.	excl. VAT
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	
Carbide turning tool set, 16 mm, 6 pcs. incl. boring bar	44-2053	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
10 pcs. metric size center drills	41-1071	
Taper turning attachment	03-1809	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Master 400 Top

- Solid prism-shaped machine bed features additional reinforcements to keep vibrations to a minimum
- 52 mm spindle bore to machine large shaft diameters comes standard
- Ideal for processing of steel, non-ferrous materials and plastics
- Chip tray extracts to front, keeping space requirements to a minimum
- Clear arranged speed and feed control settings, smooth operation and accurate control
- Electro-magnetic foot brake reduces downtime
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Grey cast-iron machine bed, inductive hardened and polished
- High spindle concentricity ($\leq 0,009$ mm)
- Hardened and polished spindle runs in oil bath
- The machine bed is made of one piece, it is buckling resistant and vibration-free which enables precise turning
- Tailstock can be adjusted ± 5 mm for taper turning



The machine can be equipped with a quick change tool post holder to raise efficiency.



Ergonomically arranged control elements on gear head - hardened and polished gears allow for smooth run.



Optionally available: Collet chuck 5C, clamping range 3 - 26 mm



4-jaw chuck 200 mm allows centric clamping of square sections (optional)



Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts (optional).



Integrated LED machine lamp in protective cover for optimal lighting when working.



Serially equipped with change gears for thread cutting.

Wide range of
standard equipment

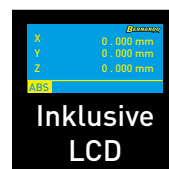
Spindle brake
according to CE



Technical data	Master 400 Top
Distance between centers	1000 mm
Center height	200 mm
Swing over bed	400 mm
Swing over cross slide	260 mm
Bed width	185 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	(8) 70 - 2000 rpm
Longitudinal feed	(24) 0,0464 - 3,249 mm/rev.
Cross feed	(24) 0,01 - 0,7033 mm/rev.
Metric thread	(43) 0,1 - 7,0 mm
Inch thread	(56) 4 - 112 threads/1"
Diameter of tailstock sleeve	42 mm
Travel of tailstock sleeve	100 mm
Taper of tailstock sleeve	MT 3
Motor power	1,5 kW (400 V)
Machine dimension (W x D x H)	1820 x 700 x 1600 mm
Weight approx.	640 kg
Art. no.	03-1284XL

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-200 mm / D5
- Steady rest - Passage up to 70 mm
- Follow rest - Passage up to max. 60 mm
- Coolant device
- Initial filling with Shell Tellus 46
- Extractable chip tray
- Face plate 280 mm
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Motor with magnetic brake according to CE
- Splash guard
- Stand
- Tools



Best
Price

Master 400 Top

The Master 400 Top universal lathe is a fantastic model for small to medium-size turning works. Even its basic configuration includes important accessories, such as 3-jaw chuck, steady and follow rest, change gears etc. increasing the application area of this model significantly. For reducing the non-productive time, this model is equipped with a 3-axis digital readout.

**Spindle bore
52 mm**

Optionally available:
6-station revolving
tailstock turret

Serially with 3-axis digital
readout Bernardo ES-12 V
with LCD-display.



**Safety clutch
included**

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Hard master jaws DMJ-DK11-200	21-0900	
Hard reversible jaws DTJ-DK11-200	21-0922	
Soft solid jaws DSJ-DK12-200	21-0867	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 3	22-1002	
Medium duty live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 / 100 mm	22-1055	
6 station revolving tailstock turret MT 3	22-1071	

Optional accessories:

	Art. no.	excl. VAT
Inserts for tailstock turret MT 3	22-1076	
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
Taper turning attachment	03-1809	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

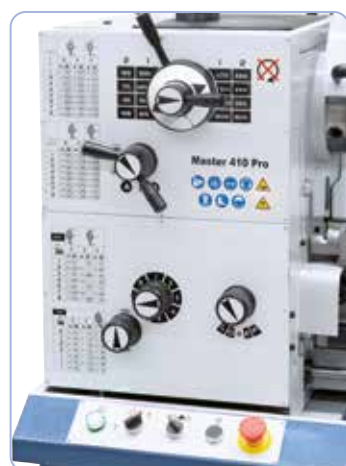
Universal lathe with digital readout

Master 410 Pro

- 52 mm spindle bore to machine large shaft diameters comes standard
- Perfect machine for technical schools, repair shops and training workshops
- Ideal for processing of steel, non-ferrous materials and plastics
- Removeable bridge allows machining of workpieces with a big diameter
- Chip tray extracts to front, keeping space requirements to a minimum
- Clear arranged speed and feed control settings, smooth operation and accurate control
- Electro-magnetic foot brake reduces downtime
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Grey cast-iron machine bed, inductive hardened and polished
- One-hand clamping for tailstock, adjustable for taper turning
- High spindle concentricity ($\leq 0,009$ mm)
- Hardened and polished spindle runs in oil bath
- Tailstock, spindle stock and all guides are adjustable



The machine can be equipped with a quick change tool post holder to raise efficiency.



Straightforward feed and speed setting on gear head. Hardened and polished gear wheels saturated in oil ensure smooth operation.



Optionally available: Collet chuck 5C, clamping range 3 - 26 mm



4-jaw chuck 200 mm allows centric clamping of square sections (optional)

Inclusive: BERNARDO 3-jaw chuck 200 mm

Soft solid jaws, soft top jaws, hard top jaws available



Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts (optional).



Integrated LED machine lamp in protective cover for optimal lighting when working.



Complete with steady and follow rest to allow for solid support of long workpieces.



Spindle brake according to CE

Best Price

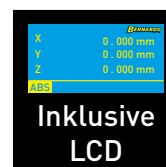
Technical data	Master 410 Pro
Distance between centers	1000 mm
Center height	205 mm
Swing over bed	410 mm
Swing over gap*	530 mm
Swing over cross slide	260 mm
Bed width	205 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	(16) 45 - 1800 rpm
Longitudinal feed	(48) 0,043 - 0,653 mm/rev.
Cross feed	(48) 0,014 - 0,206 mm/rev.
Metric thread	(36) 0,4 - 7,0 mm
Inch thread	(28) 4 - 56 threads/1"
Diameter of tailstock sleeve	45 mm
Travel of tailstock sleeve	125 mm
Taper of tailstock sleeve	MT 3
Motor power	1,5 / 2,4 kW
Machine dimension (W x D x H)	1820 x 920 x 1500 mm
Weight approx.	760 kg
Art. no.	03-1292XL

* Removeable bed length: 235 mm

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck DK11-200 mm / D5
- Steady rest - Passage up to 70 mm
- Follow rest - Passage up to max. 60 mm
- Coolant device
- Initial filling with Shell Tellus 46
- Extractable chip tray
- Face plate 280 mm
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Safety clutch
- Micrometer longitudinal fence
- Thread dial
- LED machine light
- Morse taper drill sleeve
- Change gears
- 2 dead centers
- Foot pedal with brake function according to CE
- Motor with magnetic brake according to CE
- Splash guard
- Stand
- Tools

Wide range of standard equipment



Inklusive LCD

The Master 410 Pro precision lathe feature a solid construction and practicality. Making this model truly versatile for technical schools, repair shops and training workshops is the standard equipment which comprises all major accessories such as 3-axis digital readout, rests, LED-machine lamp and safety precautions in accordance with CE-standards.

Master 410 Pro

Turning lathes

**Spindle bore
52 mm**

**Safety clutch
included**

Optionally available:
6-station revolving
tailstock turret

Serially with 3-axis digital
readout Bernardo ES-12 V
with LCD-display.



Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Hard master jaws DMJ-DK11-200	21-0900	
Hard reversible jaws DTJ-DK11-200	21-0922	
Soft solid jaws DSJ-DK12-200	21-0867	
Independent chuck 200 mm / D5, according DIN 55029	21-5060B	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 3	22-1002	
Medium duty live center with 7 interchangeable tips SMA - MT 3	22-1041	
Ball nose live center MT 3 / 100 mm	22-1055	
6 station revolving tailstock turret MT 3	22-1071	

Optional accessories:

	Art. no.	excl. VAT
Inserts for tailstock turret MT 3	22-1076	
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Carbide turning tool set, 16 mm, 6 pcs. incl. boring bar	44-2053	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
4 pcs. boring bar set, shaft 10, 12, 16, 20 mm	46-1009	
Taper turning attachment	03-1808	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with stepless speed

- Serially with Delta-frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Stepless speed adjustment, set speed can be read on digital display
- Perfect machine for technical schools, repair shops and training workshops
- Removeable bridge allows machining of workpieces with a big diameter
- Chip tray extracts to front, keeping space requirements to a minimum
- Grey cast-iron machine bed, inductive hardened and polished
- High spindle concentricity ($\leq 0,009$ mm)
- Rigid prism-shaped bed features additional reinforcements to keep vibrations to a minimum
- Modern bearing of main spindle with angular ball bearing in precision construction
- 52 mm spindle bore to machine large shaft diameters comes standard



Smooth feed and speed adjustment on gear head – hardened and polished gears in oil bath guarantees low-noise operation. Electronic, stepless speed adjustment, digital display allows easy readout.



Optionally available: Collet chuck 5C, clamping range 3 - 26 mm



4-jaw chuck 200 mm allows centric clamping of square sections (optional)



Ball nose live center 100 mm, ideal for clamping of pipes and hollow parts (optional).



Independent chuck 200 mm for clamping of irregular shaped workpieces. (optional)



The machine can be equipped with a quick change tool post holder to raise efficiency.

Inclusive: BERNARDO 3-jaw chuck 200 mm

Soft solid jaws, soft top jaws, hard top jaws available



Standard accessories include change gears for thread cutting.



Steel chuck diam. 200 mm comes standard

Best Price

Technical data	Master 410 Pro Vario
Distance between centers	1000 mm
Center height	205 mm
Swing over bed	410 mm
Swing over gap*	530 mm
Swing over cross slide	260 mm
Bed width	205 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range, 2 steps	30 - 550 / 550 - 3000 rpm
Longitudinal feed	(48) 0,043 - 0,653 mm/rev.
Cross feed	(48) 0,014 - 0,206 mm/rev.
Metric thread	(36) 0,4 - 7,0 mm
Inch thread	(28) 4 - 56 threads/1"
Diameter of tailstock sleeve	45 mm
Travel of tailstock sleeve	125 mm
Taper of tailstock sleeve	MT 3
Motor power	4,0 kW (5,5 HP)
Machine dimension (W x D x H)	1820 x 920 x 1500 mm
Weight approx.	754 kg
Art. no.	03-1293XL

* Removeable bed length: 235 mm

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck P03-200 mm / D5
- Face plate 280 mm
- Steady rest - Passage up to 70 mm
- Follow rest - Passage up to max. 60 mm
- Coolant device
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Micrometer longitudinal fence
- Safety clutch
- Thread dial
- Initial filling with Shell Tellus 46
- Frequency inverter
- Digital readout of speeds
- Extractable chip tray
- LED machine light
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Foot pedal with brake function according to CE
- Splash guard
- Stand
- Tools

Inklusive LCD

The Master 410 Pro Vario is a solidly constructed universal lathe, offering a wide range of applications. Features of this model include the large turning diameter of 410 mm and the 52 mm spindle bore. Its construction (design, performance, feeds etc) covers all needs for training purposes, as well as for tool shops and repair shops. Additionally this model is equipped with a variable speed adjustment for ideal setting of the cutting speed.

Master 410 Pro Vario

**Spindle bore
52 mm**

**Variable
cutting speed**

Optionally available:
6-station revolving
tailstock turret

Serially with 3-axis digital
readout Bernardo ES-12 V
with LCD-display.



Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck PO4-200 mm / D5, according DIN 55029	21-2037F	
Soft solid jaws SJ-PS3-200	21-3204	
Soft top jaws STJ-PS3-200	21-3242	
Hard master jaws MJ-PS3-200	21-3282	
Hard reversible jaws TJ-PS3-200	21-3322	
Soft solid jaws SJ-PS4-200	21-3222	
Independent chuck 200 mm / D5, according DIN 55029	21-5060B	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
High performance live center NCK-A MT3	22-1025	
Medium duty live center with 7 interchangeable tips SMA - MT3	22-1041	
Ball nose live center MT 3 / 100 mm	22-1055	
6 station revolving tailstock turret MT 3	22-1071	

Optional accessories:

	Art. no.	excl. VAT
Inserts for tailstock turret MT 3	22-1076	
5C fixture, D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
40 pos. tool post & holder set System Multifix size E, incl. 4 tips	23-1001	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size E, 25 x 100 mm	23-1006E2	
Carbide turning tool set, 16 mm, 6 pcs. incl. boring bar	44-2053	
Multipurpose indexable turning tool set, 16 mm, 7 pcs.	44-3078	
4 pcs. boring bar set, shaft 10, 12, 16, 20 mm	46-1009	
Taper turning attachment	03-1808	
Machine mount MS 80	53-2000	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Precision lathe with digital readout

Compact 400

- Rigid prism-shaped bed features additional reinforcements to keep vibrations to a minimum
- Various possible applications in general machine construction, production, single part manufacturing etc.
- Easy, smooth and precisely adjustable speed and feed settings
- Modern bearing of main spindle with angular ball bearing in precision construction
- Hardened and ground gears and shafts, even in feed gear unit
- Central and easy coupling of feeds and threads with leadscrew and feed rod
- The machine bed is made of one piece, it is buckling resistant and vibration-free which enables precise turning
- Chip tray extracts to front, keeping space requirements to a minimum
- 52 mm spindle bore to machine large shaft diameters comes standard

Inclusive: BERNARDO
3-jaw chuck 200 mm



Soft solid jaws, soft
top jaws, hard top jaws
available



The solid head stock and the dynamically balanced main spindle ensure accuracy and smoothness even at higher speed.



Advantage of Bernardo chuck PS3-200 mm / D5: soft solid jaws, hard master jaws, hard reversible top jaws and soft top jaws are optionally available.



Independent chuck 250 mm for clamping of irregular shaped workpieces. (optional)



The 40 position tool post and holder set system Multifix raises efficiency and ensures a high repeat accuracy.



Complete with steady and follow rest to allow for solid support of long workpieces.



20 freely adjustable feeds are available for the longitudinal and cross travel of the apron and the top support.



Standard accessories include change gears for thread cutting.

INCLUSIVE

40 pos. tool post and holder set system Multifix size B with 4 inserts

Technical data Compact 400

Distance between centers	850 mm
Center height	200 mm
Swing over bed	400 mm
Swing over cross slide	245 mm
Bed width	260 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range	(16) 45 - 1800 rpm
Longitudinal feed	(20) 0,025 - 2 mm/rev.
Cross feed	(20) 0,012 - 1 mm/rev.
Metric thread	(26) 0,2 - 14 mm
Inch thread	(42) 1 - 80 threads/1"
Diameter of tailstock sleeve	50 mm
Travel of tailstock sleeve	120 mm
Taper of tailstock sleeve	MT 3
Motor power	3,0 / 4,5 kW
Machine dimension (W x D x H)	1900 x 1000 x 1610 mm
Weight approx.	1255 kg
Art. no.	03-1290XL

Standard accessories:

- 3-axis digital readout ES-12 V with LCD display
- 3-jaw chuck PS3-200 mm / D5
- Face plate 320 mm
- Steady rest - Passage up to max. 130 mm
- Follow rest - Passage up to max. 100 mm
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool holder
- Micrometer longitudinal fence
- Safety clutch
- Motor with magnetic brake according to CE
- Initial filling with Shell Tellus 46
- Extractable chip tray
- LED machine light
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Splash guard
- Tools

**Best
Price**

The Compact 400 precision lathe is a state of the art machine. Making this model truly versatile is the standard equipment which comprises all major accessories such as 3-axis digital readout, rests, LED-machine lamp and safety precautions in accordance with CE-standards. The high user-friendliness makes this model popular for training purposes and schools.

Compact 400

High spindle concentricity ≤ 0.009 mm

Spindle bore 52 mm

Spindle brake according to CE

BERNARDO
www.bernardo.it
PROFESSIONAL

X 0.001 mm
Y 0.001 mm
Z 0.001 mm
ABS

Inklusive LCD

Serially with 3-axis digital ES-12 V with LCD-display.



Optional accessories:

	Art. no.	excl. VAT
3-jaw chuck PS3-250 / D5, according DIN 55029	21-1055F1	
4-jaw chuck DK12-200 mm / D5, according DIN 55029	21-0834	
Soft solid jaws DSJ-DK12-200	21-0867	
Soft solid jaws SJ-PS3-200	21-3204	
Soft top jaws STJ-PS3-200	21-3242	
Hard master jaws MJ-PS3-200	21-3282	
Hard reversible jaws TJ-PS3-200	21-3322	
Soft solid jaws SJ-PS3-250	21-3205	
Independent chuck K72-250 mm / D5, DIN 55029	21-5062	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
Economy live center Typ PC - MT 3	22-1002	
High performance live center NCK-A MT3	22-1025	
Medium duty live center with 7 interchangeable tips SMA - MT 3	22-1041	

Optional accessories:

	Art. no.	excl. VAT
Ball nose live center MT 3 - 100 mm	22-1055	
5C fixture with direct mount D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Turning and facing holder size B, 25 x 120 mm	23-1007B1	
Turning and facing holder size B, 32 x 140 mm	23-1007B4	
Boring bar holder size B, diam. 32 x 130 mm	23-1012	
Indexable carbide turning tool set, 20 mm, 5 pcs.	44-2016	
Carbide turning tool set, 20 mm, 6 pcs. incl. boring bar	44-2054	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
4 pcs. boring bar set, shaft 10, 12, 16, 20 mm	46-1009	
12 pcs. metric size center drills	41-1070	
Machine mount NE 120	53-2011	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with stepless speed

- Serially with Delta-frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Stepless speed adjustment, set speed can be read on digital display
- Rigid prism-shaped bed features additional reinforcements to keep vibrations to a minimum
- Various possible applications in general machine construction, production, single part manufacturing etc.
- Modern bearing of main spindle with angular ball bearing in precision construction
- The machine bed is made of one piece, it is buckling resistant and vibration-free which enables precise turning
- Chip tray extracts to front, keeping space requirements to a minimum
- 52 mm spindle bore to machine large shaft diameters comes standard

Inclusive: BERNARDO 3-jaw chuck 200 mm



Smooth feed and speed adjustment on gear head – hardened and polished gears in oil bath guarantees low-noise operation. Electronic, stepless speed adjustment, digital display allows easy readout.



Advantage of Bernardo chuck P03-200 mm / D5: soft solid jaws, hard master jaws, hard reversible top jaws and soft top jaws are optionally available.



Independent chuck 250 mm for clamping of irregular shaped workpieces. (optional)



Optionally available: Collet chuck 5C, clamping range 3 - 26 mm



The 40 position tool post and holder set system Multifix raises efficiency and ensures a high repeat accuracy.



Complete with steady and follow rest to allow for solid support of long workpieces.



Standard accessories include change gears for thread cutting.

INCLUSIVE

40 pos. tool post and holder set system Multifix size B with 4 inserts

Steel chuck diam. 200 mm comes standard

Technical data Compact 400 V

Distance between centers	850 mm
Center height	200 mm
Swing over bed	400 mm
Swing over cross slide	245 mm
Bed width	260 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-5
Speed range, stepless	50 - 450 / 450 - 2500 rpm
Longitudinal feed	(20) 0,025 - 2 mm/rev.
Cross feed	(20) 0,012 - 1 mm/rev.
Metric thread	(26) 0,2 - 14 mm
Inch thread	(42) 1 - 80 threads/1"
Diameter of tailstock sleeve	50 mm
Travel of tailstock sleeve	120 mm
Taper of tailstock sleeve	MT 3
Motor power	5,5 kW (7,5 HP)
Machine dimension (W x D x H)	1900 x 1000 x 1610 mm
Weight approx.	1240 kg
Art. no.	03-1291XL

Standard accessories:

- 3-axis digital readout ES-12 V with LCD display
- 3-jaw chuck P03-200 mm / D5
- Face plate 320 mm
- Steady rest - Passage up to max. 130 mm
- Follow rest - Passage up to max. 100 mm
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool holder
- Micrometer longitudinal fence
- Safety clutch
- Motor with magnetic brake according to CE
- Initial filling with Shell Tellus 46
- Frequency inverter
- Digital readout of speeds
- Extractable chip tray
- LED machine light
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Splash guard
- Tools

Best Price

The Compact 400 Vario is universal lathe designed for easy and economical production of single parts or small series. The outstanding user-friendliness makes this model particularly attractive for machinery and plant engineering, manufacturing and production of single parts. Additionally this model is equipped with a variable speed adjustment for ideal setting of the cutting speed.

Compact 400 V

Variable cutting speed

Spindle bore 52 mm

Spindle brake according to CE

BERNARDO
www.bernardo.it
PROFESSIONAL

X 0.001 mm
Y 0.001 mm
Z 0.001 mm
ABS
Inklusive LCD

Serially with 3-axis digital ES-12 V with LCD-display.



Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck P04-200 mm / D5, according DIN 55029	21-2037F	
Soft solid jaws SJ-PS3-200	21-3204	
Soft top jaws STJ-PS3-200	21-3242	
Hard master jaws MJ-PS3-200	21-3282	
Hard reversible jaws TJ-PS3-200	21-3322	
Soft solid jaws SJ-PS4-200	21-3222	
Hard master jaws MJ-PS4-200	21-3302	
Hard reversible jaws TJ-PS4-200	21-3342	
Soft top jaws STJ-PS4-200	21-3262	
Independent chuck K72-250 mm / D5, DIN 55029	21-5062	
Flange FL 200 mm according DIN 55029, D1-5	21-4056	
High performance live center NCK-A MT3	22-1025	
Medium duty live center with 7 interchangeable tips SMA - MT 3	22-1041	

Optional accessories:

	Art. no.	excl. VAT
Ball nose live center MT 3 - 100 mm	22-1055	
5C fixture with direct mount D1-5	22-1093	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Turning and facing holder size B, 25 x 120 mm	23-1007B1	
Turning and facing holder size B, 32 x 140 mm	23-1007B4	
Boring bar holder size B, diam. 32 x 130 mm	23-1012	
Indexable carbide turning tool set, 20 mm, 5 pcs.	44-2016	
Carbide turning tool set, 20 mm, 6 pcs. incl. boring bar	44-2054	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
4 pcs. boring bar set, shaft 10, 12, 16, 20 mm	46-1009	
12 pcs. metric size center drills	41-1070	
Machine mount NE 120	53-2011	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Smart 410

- Inductive hardened, polished grey cast-iron machine bed
- Electro-mechanical foot brake reduces downtime significantly
- State-of-the-art main spindle bearing with high-quality angular ball bearings
- Modern bearing of main spindle with angular ball bearing in precision construction
- Easy, smooth and precisely adjustable speed and feed settings
- Hardened, polished gears and shafts, also in feed gear unit
- Centrally located, logical switches for feeds and threads with leadscrew and feed rod
- Adjustable tailstock for taper turning, handwheel feature adjustable scale (0,02 mm)
- The removeable bridge allows machining of workpieces with a big diameter



The solid head stock and the dynamically balanced main spindle ensure accuracy and smoothness even at higher speed.



Steady rest to support long and thin workpieces.



Independent chuck 250 mm for clamping of irregular shaped workpieces. (optional)



Serially equipped with change gears for thread cutting.



Feed gear unit can be controlled easily and accurately. Polished gears ensure smooth running.



Optionally available: ball nose live center diameter 130 mm for clamping of pipes.



4 adjustable fence and micrometer longitudinal fence, ideal for serial works.

Technical data	Smart 410 x 1000	Smart 410 x 1500
Distance between centers	1000 mm	1500 mm
Center height	205 mm	205 mm
Swing over bed	410 mm	410 mm
Swing over gap	580 mm	580 mm
Swing over cross slide	255 mm	255 mm
Bed width	250 mm	250 mm
Spindle bore	52 mm	52 mm
Spindle nose fixture	DIN 55029, D1 - 6	DIN 55029, D1 - 6
Speed range	(16) 45 - 1800 rpm	(16) 45 - 1800 rpm
Longitudinal feed	(17) 0,05 - 1,7 mm/rev.	(17) 0,05 - 1,7 mm/rev.
Cross feed	(17) 0,025 - 0,85 mm/rev.	(17) 0,025 - 0,85 mm/rev.
Metric thread	(42) 0,2 - 14 mm	(42) 0,2 - 14 mm
Inch thread	(45) 2 - 72 threads/1"	(45) 2 - 72 threads/1"
Diameter of tailstock sleeve	50 mm	50 mm
Travel of tailstock sleeve	120 mm	120 mm
Taper of tailstock sleeve	MT 4	MT 4
Motor power	3,0 / 4,5 kW	3,0 / 4,5 kW
Machine dimension (W x D x H)	2030 x 1000 x 1450 mm	2530 x 1000 x 1450 mm
Weight approx.	1550 kg	1810 kg
Art. no.	03-1297XL	03-1299XL

**High spindle
concentricity ≤ 0.009 mm**

Standard accessories:

- 3-axis digital readout ES-12 V with LCD display
- 3-jaw chuck DK11-200 mm / D6
- Face plate 350 mm
- Steady rest - Passage up to max. 135 mm
- Follow rest - Passage up to max. 65 mm
- Coolant device
- 4-way tool post holder
- Protective device at 4-way tool post holder
- Micrometer longitudinal fence
- Safety clutch
- Turret stop with fine adjustment
- Thread dial
- Motor with magnetic brake according to CE
- Foot pedal with brake function according to CE
- Initial filling with Shell Tellus 46
- LED machine light
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Splash guard
- Tools

Smart 410

The Smart 410 universal lathe is a fantastic model for small to medium-size turning works. Even its basic configuration includes important accessories, such as 3-jaw chuck, steady and follow rest, change gears etc. increasing the application area of this model significantly. For reducing the non-productive time, this model is equipped with a 3-axis digital readout.



The machine can be equipped with a quick change tool post holder to raise efficiency.



Including BERNARDO 3-jaw chuck 200 mm



Soft solid jaws, soft top jaws, hard top jaws available

Stable in value

Safety clutch included



Optional accessories:

	Art. no.	excl. VAT
3-jaw chuck PS3-250 / D6, according DIN 55029	21-1056F	
4-jaw chuck DK12-200 mm / D6, according DIN 55029	21-0835	
Soft solid jaws DSJ-DK11-200	21-0854	
Soft top jaws DSTJ-DK11-200	21-0878	
Hard master jaws DMJ-DK11-200	21-0900	
Hard reversible jaws DTJ-DK11-200	21-0922	
Soft solid jaws DSJ-DK12-200	21-0867	
Soft solid jaws SJ-PS3-250	21-3205	
Independent chuck 250 mm / D6, according DIN 55029	21-5063B	
Flange FL 200 mm according DIN 55029, D1-6	21-4057	
Economy live center Typ PC - MT 4	22-1003	

Optional accessories:

	Art. no.	excl. VAT
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	
Taper turning attachment	03-1810	
40 pos. tool post & holder set System Multifix size B, incl. 4 tips	23-1002	
Costs of assembly for quick change set**	23-1092	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	
5C fixture with direct mount D1-6	22-1096	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Smart 410 Vario

- Serially with Delta-frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Stepless speed adjustment, set speed can be read on digital display
- Grey cast iron machine bed, inductively hardened and precisely polished
- Centrally positioned, practical feed and thread cutting controls (with leadscrew and feed rod)
- State-of-the-art main spindle bearing with high-quality angular ball bearings
- Complete with frequency inverter and 3-axis digital readout
- Hardened, polished gear wheels and shafts, even in feed unit
- Clearly arranged, user-friendly, accurate speed and feed change
- Tailstock can be repositioned for taper turning, handwheel feature adjustable scale (0.02 mm)
- Removable bridge allows machining of oversize workpieces



Variable
cutting speed



The solid headstock and the dynamically balanced main spindle allow high accuracy and smooth operation at high speed range.



Advantage of Bernardo steel chuck: high concentricity and long life span.



Micrometer longitudinal fence and turret fence comes standard.



Change gears for thread cutting come standard.



User-friendly, accurate feed unit, polished gear wheels guarantees smooth running.



Taper turning attachment optional available, turning length 300 mm, setting angle +/- 10°.



Steady rest supports long and thin workpieces.



The quick change tool post holder allows a significant reduction of downtime and guarantees high repeat accuracy

Technical data	Smart 410 x 1000 V	Smart 410 x 1500 V
Distance between centers	1000 mm	1500 mm
Center height	205 mm	205 mm
Swing over bed	410 mm	410 mm
Swing over gap	580 mm	580 mm
Swing over cross slide	255 mm	255 mm
Bed width	250 mm	250 mm
Spindle bore	52 mm	52 mm
Spindle nose fixture	DIN 55029, D1 - 6	DIN 55029, D1 - 6
Speed range, stepless	30 - 550 / 550 - 3000 rpm	30 - 550 / 550 - 3000 rpm
Longitudinal feed	(17) 0,05 - 1,7 mm/rev.	(17) 0,05 - 1,7 mm/rev.
Cross feed	(17) 0,025 - 0,85 mm/rev.	(17) 0,025 - 0,85 mm/rev.
Metric thread	(42) 0,2 - 14 mm	(42) 0,2 - 14 mm
Inch thread	(45) 2 - 72 threads/1"	(45) 2 - 72 threads/1"
Diameter of tailstock sleeve	50 mm	50 mm
Travel of tailstock sleeve	120 mm	120 mm
Taper of tailstock sleeve	MT 4	MT 4
Motor power	5,5 kW (7,5 HP)	5,5 kW (7,5 HP)
Machine dimension (W x D x H)	2030 x 1000 x 1450 mm	2530 x 1000 x 1450 mm
Weight approx.	1220 kg	1400 kg
Art. no.	03-1301XL	03-1302XL

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw steel chuck P03-200 mm / D6
- Face plate 350 mm
- Steady rest - Passage up to max. 135 mm
- Follow rest - Passage up to max. 65 mm
- Foot pedal with brake function according to CE
- 4-way tool post holder
- Protective device at 4-way tool post holder
- Micrometer longitudinal fence
- Turret fence with fine adjustment
- Frequency inverter
- Initial filling with Shell Tellus 46
- Coolant device
- Safety clutch
- Thread dial
- LED machine light
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Splash guard
- Tools

Including BERNARDO
3-jaw chuck 200 mm



The Smart 410 Vario universal lathe is suitable for easy to medium difficult turning works. Its wide range of standard equipment, such as the 3-jaw chuck, follow and steady rest, change gears and 3-axis digital readout, makes this model extremely versatile. Furthermore, this model comes equipped with a stepless speed adjustment up to 3000 rpm, allowing the speed to be optimally adjusted to the workpiece and the feed rate.

Smart 410 Vario

Safety clutch included

Steel chuck diam. 200 mm comes standard

High spindle concentricity ≤ 0.009 mm



Optional accessories:

	Art. no.	excl. VAT
3-jaw steel chuck PO3 250 mm / D6, according DIN 55029	21-1044F	
4-jaw steel chuck PO4 200 mm / D6, according DIN 55029	21-2038F	
Soft solid jaws SJ-PS3-200	21-3204	
Soft top jaws STJ-PS3-200	21-3242	
Hard master jaws MJ-PS3-200	21-3282	
Hard reversible jaws TJ-PS3-200	21-3322	
Soft solid jaws SJ-PS4-200	21-3222	
Soft solid jaws SJ-PS3-250	21-3205	
Independent chuck 250 mm / D6, according DIN 55029	21-5063B	
Economy live center Typ PC - MT 4	22-1003	
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	

Optional accessories:

	Art. no.	excl. VAT
High performance live center NCK-A MT 4	22-1026	
Taper turning attachment	03-1810	
40 pos. tool post & holder set System Multifix size B, incl. 4 tips	23-1002	
Costs of assembly for quick change set**	23-1092	
Turning and facing holder size B, 25 x 120 mm	23-1007B1	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	
Carbide turning tool set, 20 mm, 6 pcs. incl. boring bar	44-2054	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with constant cutting speed

- Constant cutting speed when face turning, spindle speed automatically adjusts to diameter of work piece
- High surface quality due to the constant cutting speed when facing turning
- Grey cast iron machine bed, inductively hardened and precisely polished
- Centrally positioned, practical feed and thread cutting controls (with leadscrew and feed rod)
- State-of-the-art main spindle bearing with high-quality angular ball bearings
- Complete with frequency inverter and 3-axis digital readout including speed indication
- Hardened, polished gear wheels and shafts, even in feed unit
- Clearly arranged, user-friendly, accurate speed and feed change
- Tailstock can be repositioned for taper turning, handwheel, adjustable scale (0.02 mm)
- Removable bridge allows machining of oversize workpieces

Including BERNARDO
3-jaw chuck 200 mm



Soft solid jaws, soft top jaws, hard top jaws available



Smooth feed and speed adjustment on gear head – hardened and polished gears in oil bath guarantees low noise operation. Electronic, stepless speed adjustment, digital display allows easy readout.



Advantage of Bernardo chuck P03-200 mm / D6: soft solid jaws, hard master jaws, hard reversible top jaws and soft top jaws are optionally available.



Independent chuck 250 mm for clamping of irregular shaped workpieces. [optional]



Steady rest supports long and thin workpieces.



Micrometer longitudinal fence and turret fence comes standard.



The quick change tool post holder allows a significant reduction of downtime and guarantees high repeat accuracy



17 freely adjustable feeds are available for the longitudinal and cross travel of the apron and the top support.

INCLUSIVE

40 pos. tool post and holder set system Multifix size B with 4 inserts

Technical data	410 x 1000 V-constant	410 x 1500 V-constant
Distance between centers	1000 mm	1500 mm
Center height	210 mm	210 mm
Swing over bed	420 mm	420 mm
Swing over gap	580 mm	580 mm
Swing over cross slide	250 mm	250 mm
Bed width	250 mm	250 mm
Spindle bore	52 mm	52 mm
Spindle nose fixture	DIN 55029, D1 - 6	DIN 55029, D1 - 6
Speed range, stepless	30 - 550 / 550 - 3000 rpm	30 - 550 / 550 - 3000 rpm
Longitudinal feed	(17) 0,05 - 1,7 mm/rev.	(17) 0,05 - 1,7 mm/rev.
Cross feed	(17) 0,025 - 0,85 mm/rev.	(17) 0,025 - 0,85 mm/rev.
Metric thread	(42) 0,2 - 14 mm	(42) 0,2 - 14 mm
Inch thread	(45) 2 - 72 threads/1"	(45) 2 - 72 threads/1"
Diameter of tailstock sleeve	50 mm	50 mm
Travel of tailstock sleeve	125 mm	125 mm
Taper of tailstock sleeve	MT 4	MT 4
Motor power	5,5 kW (7,5 HP)	5,5 kW (7,5 HP)
Machine dimension (W x D x H)	1950 x 1000 x 1580 mm	2450 x 1000 x 1580 mm
Weight approx.	1220 kg	1400 kg
Art. no.	03-1303XL	03-1304XL

Standard accessories:

- 3-axis digital readout ES-12 S with LCD-display and speed indication
- 3-jaw steel chuck P03-200 mm / D6
- Face plate 350 mm
- Steady rest - Passage up to max. 130 mm
- Follow rest - Passage up to max. 70 mm
- Foot pedal with brake function according to CE
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool holder
- Micrometer longitudinal fence
- Turret fence with fine adjustment
- Frequency inverter
- Initial filling with Shell Tellus 46
- Coolant device
- Safety clutch
- Thread dial
- LED machine light
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Splash guard
- Tools

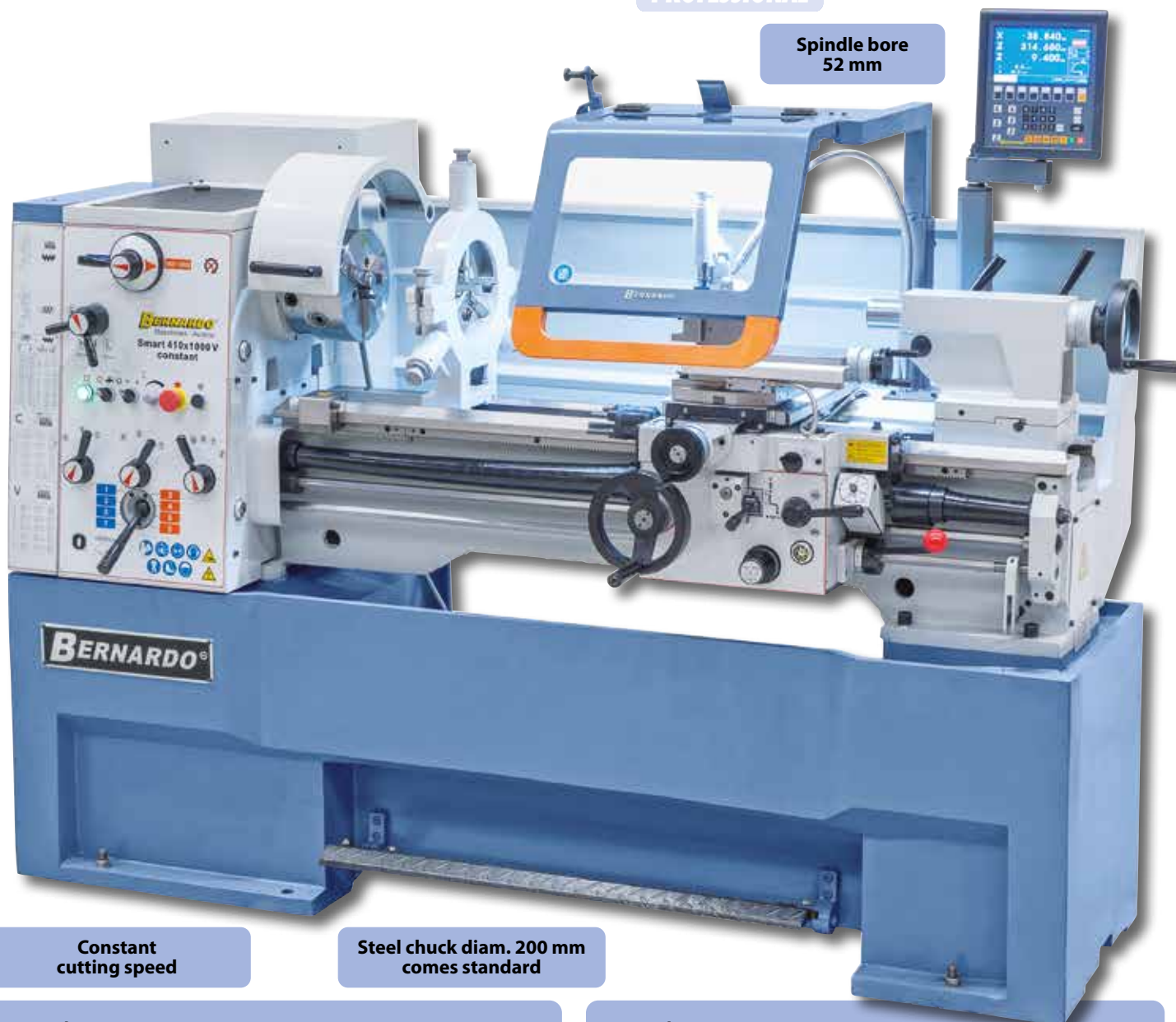
The Smart 410 V-constant universal lathe feature a solid construction and practicality. Making this model truly versatile for technical schools, repair shops and training workshops is the standard equipment which comprises all major accessories such as 3-axis digital readout, rests, LED-machine lamp and safety precautions in accordance with CE-standards. Furthermore, this model features the additional feature of "constant cutting speed", allowing excellent results when processing work pieces with inconsistent diameters.

Smart 410 V-constant

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PROFESSIONAL

NEW

**Spindle bore
52 mm**



**Constant
cutting speed**

**Steel chuck diam. 200 mm
comes standard**

Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck P04 200 mm / D6, according DIN 55029	21-2038F	
Soft solid jaws SJ-PS3-200	21-3204	
Soft top jaws STJ-PS3-200	21-3242	
Hard master jaws MJ-PS3-200	21-3282	
Hard reversible jaws TJ-PS3-200	21-3322	
Independent chuck 250 mm / D6, according DIN 55029	21-5063B	
Flange FL 200 mm according DIN 55029, D1-6	21-4057	
High performance live center NCK-A MT 4	22-1026	
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	
Ball nose live center MT 4 - 130 mm	22-1060	
5C fixture with direct mount D1-6	22-1096	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	

Optional accessories:

	Art. no.	excl. VAT
Turning and facing holder size B, 25 x 120 mm	23-1007B1	
Turning and facing holder size B, 32 x 140 mm	23-1007B4	
Boring bar holder size B, diam. 32 x 130 mm	23-1012	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	
Indexable carbide turning tool set, 20 mm, 5 pcs.	44-2016	
Carbide turning tool set, 20 mm, 6 pcs. incl. boring bar	44-2054	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
4 pcs. boring bar set, shaft 10, 12, 16, 20 mm	46-1009	
12 pcs. metric size center drills	41-1070	
Machine mount NE 120	53-2011	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with constant cutting speed

- Constant cutting speed when face turning, spindle speed automatically adjusts to diameter of work piece
- High surface quality due to the constant cutting speed when facing turning
- Rigid prism-shaped bed features additional reinforcements to keep vibrations to a minimum
- Various possible applications in general machine construction, production, single part manufacturing etc.
- Modern bearing of main spindle with angular ball bearing in precision construction
- The machine bed is made of one piece, it is buckling resistant and vibration-free which enables precise turning
- Chip tray extracts to front, keeping space requirements to a minimum
- 52 mm spindle bore to machine large shaft diameters comes standard



Convenient controls, all switches and control elements are clearly arranged on gear head. Feed unit is smooth running and accurate to control, saturated in oil.



Advantage of Bernardo steel chuck: high concentricity and long life span.



4-jaw independent chuck 200 mm with reversible jaws optional available.



To raise efficiency the machine is equipped with a quick change tool post holder



The follow rest eliminates bending of thin arbors.



Smooth running, accurate apron features top support and quick change tool post holder, handwheels come with adjustable metric fine scaling.



Optionally available: ball nose live center diameter 130 mm for clamping of pipes.

INCLUSIVE

40 pos. tool post and holder set system Multifix size B with 4 inserts

Technical data Compact 410 V-constant

Distance between centers	1000 mm
Center height	210 mm
Swing over bed	420 mm
Swing over cross slide	250 mm
Bed width	250 mm
Spindle bore	52 mm
Spindle nose fixture	DIN 55029, D1-6
Speed range, stepless	30 - 550 / 550 - 3000 rpm
Longitudinal feed	(20) 0,026 - 0,9 mm/rev.
Cross feed	(20) 0,013 - 0,45 mm/rev.
Metric thread	(42) 0,2 - 14 mm
Inch thread	(45) 2 - 72 threads/1"
Diameter of tailstock sleeve	50 mm
Travel of tailstock sleeve	125 mm
Taper of tailstock sleeve	MT 4
Motor power	5,5 kW (7,5 HP)
Machine dimension (W x D x H)	1950 x 1000 x 1820 mm
Weight approx.	1270 kg
Art. no.	03-1305XL

Standard accessories:

- 3-axis digital readout ES-12 S with LCD-display and speed indication
- 3-jaw steel chuck PO3-200 mm / D6
- Face plate 350 mm
- Steady rest - Passage up to max. 130 mm
- Follow rest - Passage up to max. 70 mm
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool holder
- Micrometer longitudinal fence
- Turret fence with fine adjustment
- Safety clutch
- Foot pedal with brake function according to CE
- Initial filling with Shell Tellus 46
- Frequency inverter
- LED machine light
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Splash guard
- Tools

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PROFESSIONAL

The Compact 410 V-constant is universal lathe designed for easy and economical production of single parts or small series. The outstanding user-friendliness makes this model particularly attractive for machinery and plant engineering, manufacturing and production of single parts. Furthermore, this model features the additional feature of "constant cutting speed", allowing excellent results when processing work pieces with inconsistent diameters.

Compact 410 V-constant

Constant cutting speed

High spindle concentricity ≤ 0.009 mm

Steel chuck diam. 200 mm comes standard

Spindle bore 52 mm



NEW

Wide range of standard equipment

Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck P04 200 mm / D6, according DIN 55029	21-2038F	
Soft solid jaws SJ-PS3-200	21-3204	
Soft top jaws STJ-PS3-200	21-3242	
Hard master jaws MJ-PS3-200	21-3282	
Hard reversible jaws TJ-PS3-200	21-3322	
Independent chuck 250 mm / D6, according DIN 55029	21-5063B	
Flange FL 200 mm according DIN 55029, D1-6	21-4057	
High performance live center NCK-A MT 4	22-1026	
Medium duty live center with 7 interchangeable tips SMA - MT 4	22-1042	
Ball nose live center MT 4 - 130 mm	22-1060	
5C fixture with direct mount D1-6	22-1096	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	

Optional accessories:

	Art. no.	excl. VAT
Turning and facing holder size B, 25 x 120 mm	23-1007B1	
Turning and facing holder size B, 32 x 140 mm	23-1007B4	
Boring bar holder size B, diam. 32 x 130 mm	23-1012	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	
Indexable carbide turning tool set, 20 mm, 5 pcs.	44-2016	
Carbide turning tool set, 20 mm, 6 pcs. incl. boring bar	44-2054	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
4 pcs. boring bar set, shaft 10, 12, 16, 20 mm	46-1009	
12 pcs. metric size center drills	41-1070	
Machine mount NE 120	53-2011	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal turning lathe with digital readout

Solid 460 Pro

- Modern bearing of main spindle with angular ball bearing in precision construction
- Hardened and ground gears and shafts, even in feed gear unit
- Central and easy coupling of feeds and threads with leadscrew and feed rod
- The large gears are hardened and precision-ground
- Easy, smooth and precisely adjustable speed and feed settings
- Complete with longitudinal and cross rapid feed to reduce downtime
- The machine bed is made of one piece, it is buckling resistant and vibration-free which enables precise turning



Advantage of Bernardo chuck PS3-250 mm / D8: soft solid jaws, hard master jaws, hard reversible top jaws and soft top jaws are optionally available.



42 freely adjustable feeds are available for the longitudinal and cross travel of the apron and the top support.



Complete with steady and follow rest to allow for solid support of long workpieces.



Hardened main spindle with precision taper bearing for high concentricity, teething Opti-belt-V-belt for optimal power transmission.



The solid tailstock with spindle taper MT 4 can be adjusted for taper turning.



The 40 position tool post and holder set system Multifix raises efficiency and ensures a high repeat accuracy.



Taper turning attachment optional available, turning length 455 mm, setting angle +/- 8°.

**Spindle bore
80 mm**

**Including rapid feed
longitudinal and cross**

**High spindle
concentricity ≤ 0.009 mm**

Technical data

Solid 460 Pro

Distance between centers		1000 mm	1500 mm	2000 mm
Center height		230 mm	230 mm	230 mm
Swing over bed		460 mm	460 mm	460 mm
Swing over gap		690 mm	690 mm	690 mm
Swing over cross slide		270 mm	270 mm	270 mm
Bed width		300 mm	300 mm	300 mm
Spindle bore		80 mm	80 mm	80 mm
Spindle nose fixture		DIN 55029, D1-8		
Speed range		(12) 25 - 1700 rpm		
Longitudinal feed		(42) 0,055 - 3,065 mm/rev.		
Cross feed		(42) 0,025 - 1,386 mm/rev.		
Metric thread		(41) 0,1 - 14 mm		
Inch thread		(60) 2 - 112 threads/1"		
Diameter of tailstock sleeve		60 mm	60 mm	60 mm
Travel of tailstock sleeve		130 mm	130 mm	130 mm
Taper of tailstock sleeve		MT 4	MT 4	MT 4
Motor power		5,5 kW (7,5 HP)	5,5 kW (7,5 HP)	5,5 kW (7,5 HP)
Machine dimension	Length	2300 mm	2750 mm	3250 mm
	Width x Height	1080 x 1600 mm	1080 x 1600 mm	1080 x 1600 mm
Weight approx.		1675 kg	1845 kg	1995 kg
Art. no.		03-1309XL	03-1309XL0	03-1309XL1

Standard accessories:

- 3-axis digital readout ES-12 V with LCD display
- 3-jaw chuck PS3-250 mm / D8
- Face plate 450 mm
- Coolant device
- Initial filling with the Shell Tellus 46
- Steady rest - Passage up to max. 150 mm
- Follow rest - Passage up to max. 110 mm
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool holder
- Motor with magnetic brake according to CE
- Foot pedal with brake function according to CE
- Safety clutch
- Rapid feed longitudinal and cross
- Change gears
- 2 dead centers
- Morse taper drill sleeve
- Thread dial
- LED machine light
- Splash guard
- Tools

The Solid 460 Pro is universal lathe designed for easy and economical production of single parts or small series. A wide range of equipment is included, making these machines highly versatile.

Solid 460 Pro

Including BERNARDO
3-jaw chuck 250 mm



Soft solid jaws, soft
top jaws, hard top jaws
available



The machine is equipped
with a digital readout to reduce
non-productive time.



INCLUSIVE

40 pos. tool post and holder
set system Multifix size B
with 4 inserts

NEW

Optional accessories:

	Art. no.	excl. VAT
4-jaw chuck DK12-250 mm / D8, according DIN 55029	21-0837	
4-jaw chuck PS4-250, according DIN 6350	21-2003F	
Soft solid jaws SJ-PS3-250	21-3205	
Hard master jaws MJ-PS3-250	21-3283	
Hard reversible jaws TJ-PS3-250	21-3323	
Soft top jaws STJ-PS3-250	21-3243	
Soft solid jaws DSJ-DK12-250	21-0868	
Soft solid jaws SJ-PS4-250	21-3223	
Independent chuck 320 mm / D8, according DIN 55029	21-5066B	
Flange FLD 250 mm according DIN 55029, D1-8	21-4109	
Economy live center Typ PC - MT 4	22-1003	

Optional accessories:

	Art. no.	excl. VAT
Live center with 7 interchangeable tips SMA - MT 4	22-1042	
Taper turning attachment	03-1811	
Turning and facing holder size B, 25 x 120 mm	23-1007B1	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	
5C fixture with direct mound D1 - 8	22-1094	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Keyless drill chuck 1 - 16 mm / B 16	24-1082	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Universal lathe with digital readout

Solid 460 Pro Vario

- State-of-the-art main spindle bearing with high-quality angular ball bearings
- Serially with Delta-frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Stepless speed adjustment, set speed can be read on digital display
- Hardened, polished gear wheels and shafts, even in feed unit
- Complete with longitudinal and cross rapid feed to reduce downtime
- Centrally positioned, practical feed and thread cutting controls (with leadscrew and feed rod)
- Large gear wheels, hardened and polished
- Straightforward speed and feed adjustments allow for easy and accurate settings
- Machine bed, cast in one piece, eliminates torsion and vibrations, resulting in best possible accuracy



Electronic, stepless speed adjustment, digital display allows easy readout.



Complete with steady and follow rest to allow for solid support of long workpieces.



Choice of 42 feed settings for longitudinal and cross travel of apron and top support.



Hardened main spindle with precision taper bearing for high concentricity, teethed Opti-belt-V-belt for optimal power transmission.



The solid tailstock MT 4 can be repositioned for taper turning.



To raise efficiency the machine is equipped with a quick change tool post holder



Independent chuck 320 mm for clamping of irregular shaped workpieces. (optional)

**Variable
cutting speed**

BERNARDO®
www.bernardo.at
PROFESSIONAL

Standard accessories:

- 3-axis digital readout with ES-12 V display
- 3-jaw chuck PS3-250 mm / D8
- Steady rest - Passage up to max. 150 mm
- Follow rest - Passage up to max. 110 mm
- Initial filling with Shell Tellus 46
- Face plate 350 mm
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool post holder
- Foot pedal with brake function according to CE
- Coolant device
- Frequency inverter
- Safety clutch
- Rapid feed longitudinal and cross
- Change gears
- Morse taper drill sleeve
- 2 dead centers
- Thread dial
- LED machine light
- Splash guard
- Tools

Including BERNARDO
3-jaw chuck 250 mm



Soft solid jaws, soft
top jaws, hard top jaws
available

Technical data

Solid 460 Vario

Distance between centers		1000 mm	1500 mm	2000 mm
Center height		230 mm	230 mm	230 mm
Swing over bed		460 mm	460 mm	460 mm
Swing over gap		690 mm	690 mm	690 mm
Swing over cross slide		270 mm	274 mm	274 mm
Bed width		300 mm	300 mm	300 mm
Spindle bore		80 mm	80 mm	80 mm
Spindle nose fixture		DIN 55029, D1-8		
Speed range, 2 steps		25 - 250 / 250 - 1700 rpm		
Longitudinal feed		(42) 0,055 - 3,065 mm/rev.		
Cross feed		(42) 0,025 - 1,386 mm/rev.		
Metric thread		(41) 0,1 - 14 mm		
Inch thread		(60) 2 - 112 threads/1"		
Diameter of tailstock sleeve		60 mm	60 mm	60 mm
Travel of tailstock sleeve		130 mm	130 mm	130 mm
Taper of tailstock sleeve		MT 4	MT 4	MT 4
Motor power		5,5 kW (7,5 HP)	5,5 kW (7,5 HP)	5,5 kW (7,5 HP)
Machine dimension	Length	2300 mm	2750 mm	3250 mm
	Width x Height	1080 x 1600 mm	1080 x 1370 mm	1080 x 1370 mm
Weight approx.		1730 kg	1880 kg	2030 kg
Art. no.		03-1309XL2	03-1309XL3	03-1309XL4

The Solid 460 Pro Vario is a universal lathe, designed for the economic production of single parts and small series at highest possible accuracy. Its high user-friendliness makes this model ideal for engineering and construction plants, production and single part manufacturing.

Solid 460 Pro Vario

Turning lathes

INCLUSIVE

40 pos. tool post and holder set system Multifix size B with 4 inserts

Including rapid feed longitudinal and cross

Spindle bore 80 mm



High spindle concentricity ≤ 0.009 mm

Wide range of standard equipment

NEW

Optional accessories

	Art. no.	excl. VAT
4-jaw chuck DK12-250 mm / D8, according DIN 55029	21-0837	
4-jaw chuck PS4-250 mm, according DIN 6350	21-2003F	
Soft solid jaws SJ-PS3-250	21-3205	
Soft top jaws STJ-PS3-250	21-3243	
Hard master jaws MJ-PS3-250	21-3283	
Hard reversible jaws TJ-PS3-250	21-3323	
Soft solid jaws SJ-PS4-250	21-3223	
Soft solid jaws DSJ-DK12-250	21-0868	
Independent chuck 320 mm / D8, according DIN 55029	21-5066B	
Flange FLD 250 mm according DIN 55029, D1-6	21-4109	
Flange FL 250 mm according DIN 55029, D1-8	21-4059	
Economy live center Typ PC - MT 4	22-1003	

Optional accessories

	Art. no.	excl. VAT
Live center with 7 interchangeable tips SMA - MT 4	22-1042	
Taper turning attachment	03-1811	
Turning and facing holder for size B, 25 x 120 mm	23-1007B1	
Turning and facing holder for size B, 32 x 140 mm	23-1007B4	
6 station revolving tailstock turret MT 4	22-1072	
Inserts for tailstock turret MT 4	22-1077	
5C fixture with direct mount D1 - 8	22-1094	
5C round hole collets set, 3 - 26 mm, 24 pcs.	22-1097	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Carbide turning tool set 20 mm, 6 pcs. incl. boring bar	44-2054	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Heavy duty industrial lathe with digital readout

Goliath 500

- Various possible applications in general machine construction, production, single part manufacturing etc.
- Machine bed, cast in one piece, eliminates torsion and vibrations, resulting in best possible accuracy
- State-of-the-art main spindle bearing with high-quality angular ball bearings
- Centrally positioned, practical feed controls and thread cutting controls (with leadscrew and feed rod)
- Complete with longitudinal and cross rapid feed to reduce downtime
- Large gear wheels, hardened and polished
- Removable bridge allows machining of oversize workpieces
- Tailstock can be repositioned for taper turning, handwheel feature adjustable scale (0.02 mm)
- Electro-mechanical foot brake keeps downtime to a minimum
- High performance even at face turning

Including BERNARDO 3-jaw chuck 250 mm



Soft solid jaws, soft top jaws, hard top jaws available



Independent chuck 400 mm for clamping of irregular shaped workpieces. (optional)



The machine is equipped with a quick change tool post holder to raise efficiency.



Complete with rapid feed to reduce downtime enormously.



Steady rest with bronze guiding supports long workpieces



Technical data

Goliath 500

Distance between centers	1000 mm	1500 mm	2000 mm	3000 mm
Center height	250 mm	250 mm	250 mm	250 mm
Swing over bed	500 mm	500 mm	500 mm	500 mm
Swing over gap*	720 mm	720 mm	720 mm	720 mm
Swing over cross slide	310 mm	310 mm	310 mm	310 mm
Bed with	400 mm	400 mm	400 mm	400 mm
Spindle bore	80 mm	80 mm	80 mm	80 mm
Spindle nose fixture	DIN 55029, D1-8			
Speed range	(24) 9 - 1600 rpm			
Longitudinal feed	(80) 0,063 - 6,43 mm/rev.			
Cross feed	(80) 0,027 - 2,73 mm/rev.			
Metric thread	(46) 1 - 224 mm			
Inch thread	(44) 1/8 - 28 threads/1"			
Diameter of tailstock sleeve	75 mm	75 mm	75 mm	75 mm
Travel of tailstock sleeve	150 mm	150 mm	150 mm	150 mm
Taper of tailstock sleeve	MT 5	MT 5	MT 5	MT 5
Motor power	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)
Machine dimension	Length	2520 mm	3020 mm	3520 mm
	Width x Height	1240 x 1550 mm	1240 x 1550 mm	1240 x 1550 mm
Weight approx.	3195 kg	3285 kg	3375 kg	3555 kg
Art. no.	03-1329XL	03-1329XL0	03-1329XL1	03-1329XL2

* Removeable bed length: 200 mm

The Goliath 500 production lathe is characterized by high accuracy and performance and is particularly suitable for medium to heavy turning works. Even its basic configuration includes important accessories, such as 3-jaw chuck, steady and follow rest, change gears etc. increasing the application area of this model significantly. For reducing the non-productive time, this model is equipped with a 3-axis digital readout.

Goliath 500

INCLUSIVE

40 pos. tool post and holder set system Multifix size C with 4 inserts

Including rapid feed longitudinal and cross

NEW



High spindle concentricity ≤ 0.009 mm

Optional accessories:

	Art. no.	excl. VAT
3-jaw chuck PS3-315 / D8, according DIN 55029	21-1058F	
4-jaw steel chuck PO4-315 mm / D8, according DIN 55029	21-2042F	
Soft solid jaws SJ-PS3-315	21-3206	
Soft top jaws STJ-PS3-315	21-3244	
Independent chuck 400 mm / D8, according DIN 55029	21-5070B	
Live center with 7 interchangeable tips SMA - MT 5	22-1043	
High performance live center NCK-A MT5	22-1027	
Ball nose live center MT 5 / 150 mm	22-1065	
Turning and facing holder size C, 40 x 150 mm	23-1008C3	
Boring bar holder size C, 40 x 160 mm	23-1013	
Carbide turning tool set 20 mm, 6 pcs. incl. boring bar	44-2054	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Standard accessories:

- Safety clutch
- Rapid feed longitudinal and cross
- LED machine light
- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck PS3-250 mm / D8
- Face plate 400 mm
- Steady rest - Passage up to max. 200 mm
- Follow rest - Passage up to max. 110 mm
- 1 dead center / 1 live center
- Motor with magnetic brake according to CE
- Foot pedal with brake function acc. to CE
- Initial filling with Shell Tellus 46
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool post holder
- Morse taper drill sleeve
- Splash guard
- Tools

Heavy duty industrial lathe with digital readout

Titan 560 Pro

- Wide range of applications in general machine construction, production, single part manufacturing etc.
- Removable bridge allows processing of workpieces with big diameter
- Logical, clearly designed and easy-to-use speed and feed settings
- Including 4 adjustable cams for automatic shut-down of the apron
- Complete with rapid traverse longitudinal and cross to reduce downtime
- Torsion resistant machine bed – one piece cast – eliminates vibrations, guarantees best possible accuracy when turning
- State-of-the-art spindle bedding with high-quality, angular ball bearings
- Adjustable tailstock with fine scale for taper turning
- Central lubrication of apron



Control elements are user-friendly and clearly arranged on the gear head.



Complete with rapid feed to reduce downtime enormously.



Feed gear unit can be controlled easily and accurately – polished gears ensure smooth running.



The machine is equipped with a quick change tool post holder to raise efficiency.

Inclusive: BERNARDO
3-jaw chuck 315 mm



BERNARDO
INDUSTRY

Spindle taper
DIN 55029

Spindle taper
DIN 55029



Including rapid feed
longitudinal and cross

INCLUSIVE

40 pos. tool post and holder
set system Multifix size C
with 4 inserts

High spindle
concentricity ≤ 0.009 mm

Technical data

Titan 560 Pro

Distance between centers		1500 mm	2000 mm	3000 mm
Center height		280 mm	280 mm	280 mm
Swing over bed		560 mm	560 mm	560 mm
Swing over gap		785 mm	785 mm	785 mm
Swing over cross slide		350 mm	350 mm	350 mm
Bed width		350 mm	350 mm	350 mm
Spindle bore		105 mm	105 mm	105 mm
Spindle nose fixture		DIN 55029, D1 - 8		
Speed range		(12) 25 - 1500 rpm		
Longitudinal feed		(42) 0,055 - 3,061 mm/rev.		
Cross feed		(42) 0,025 - 1,384 mm/rev.		
Metric thread		(41) 0,1 - 14 mm		
Inch thread		(60) 2 - 112 threads/1"		
Diameter of tailstock sleeve		75 mm	75 mm	75 mm
Travel of tailstock sleeve		185 mm	185 mm	185 mm
Taper of tailstock sleeve		MT 5	MT 5	MT 5
Motor power		7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)
Machine dimension	Length	2840 mm	3340 mm	4340 mm
	Width x Height	1150 x 1610 mm	1150 x 1610 mm	1150 x 1610 mm
Weight approx.		2370 kg	2720 kg	3000 kg
Art. no.		03-1341BXL	03-1344BXL	03-1345BXL

The Titan 560 Pro turning lathes are specifically designed for quick and economical single part production. The large number of standard equipment makes these models incredibly versatile.

Titan 560 Pro



Optional accessories:

	Art. no.	excl. VAT
3-jaw chuck DK11-250 mm / D8, according DIN 55029	21-0787	
4-jaw steel chuck PO4-315 mm / D8, according DIN 55029	21-2042F	
Soft solid jaws DSJ-DK11-250	21-0855	
Soft solid jaws SJ-PS3-315	21-3206	
Soft solid jaws SJ-PS4-315	21-3224	
Independent chuck 400 mm / D8, according DIN 55029	21-5070B	
Live center with 7 interchangeable tips SMA - MT 5	22-1043	
High performance live center NCK-A MT5	22-1027	
Ball nose live center MT 5 - 150 mm	22-1065	
Taper turning attachment	03-1812	
Turning and facing holder size C, 40 x 150 mm	23-1008C3	
Boring bar holder size C, diam. 40 x 160 mm	23-1013	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Standard accessories:

- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw steel chuck PS3-315 mm / D8
- Face plate 450 mm
- Steady rest - Passage up to max. 180 mm
- Follow rest - Passage up to max. 120 mm
- 2 dead centers
- Initial filling with Shell Tellus 46
- Motor with magnetic brake according to CE
- Foot pedal with brake function according to CE
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool post holder
- Safety clutch
- Rapid feed longitudinal and cross
- LED machine light
- Change gears
- Morse taper drill sleeve
- Splash guard
- Tools

Heavy duty industrial lathe with digital readout

Titan 560 Pro Vario

- Serially with Delta-frequency inverter for high torque in low speed range and nearly constant speed at heavy workloads
- Stepless speed adjustment, set speed can be read on digital display
- Various areas of application, such as general engineering, production, single part manufacturing etc.
- Removable bridge allows operating of oversize workpieces
- Complete with rapid traverse longitudinal and cross to reduce downtime
- State-of-the-art main spindle bearing features high quality angular ball bearings
- Machine bed, cast in one piece, is rigid and eliminates vibrations, allowing accurate turning
- Tailstock can be repositioned for taper turning
- Central lubrication of apron

BERNARDO
INDUSTRY



User-friendly operation, clear arrangement of switches and controls on gear head.



Complete with rapid feed to reduce downtime enormously.



Convenient feed settings for high accuracy, polished gear wheels allow for smooth operation.



Advantage of Bernardo chuck PS3-315 mm / D8: high concentricity and long life span.

Including BERNARDO 3-jaw chuck 315 mm



Soft solid jaws, soft top jaws, hard top jaws available

Variable cutting speed

INCLUSIVE

40 pos. tool post and holder set system Multifix size C with 4 inserts

Spindle bore 105 mm



Standard accessories:

- 3-axis digital readout ES-12 V with LCD display
- 3-jaw chuck PS3-315 mm / D8
- Steady rest - Passage up to max. 180 mm
- Follow rest - Passage up to max. 120 mm
- Foot pedal with brake function according to CE
- Protective device at tool post holder
- LED machine light
- Initial filling with Shell Tellus 46
- Face plate 450 mm
- 2 dead centers
- Frequency inverter
- Digital readout of speeds
- Safety clutch
- Rapid feed longitudinal and cross
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Change gears
- Morse taper drill sleeve
- Splash guard
- Tools

Technical data

Titan 560 Pro Vario

Distance between centers	1500 mm	2000 mm	3000 mm
Center height	280 mm	280 mm	280 mm
Swing over bed	560 mm	560 mm	560 mm
Swing over gap	785 mm	785 mm	785 mm
Swing over cross slide	350 mm	350 mm	350 mm
Bed width	350 mm	350 mm	350 mm
Spindle bore	105 mm	105 mm	105 mm
Spindle nose fixture	DIN 55029, D1 - 8		
Speed range, 2 steps	25 - 220 / 220 - 1500 rpm		
Longitudinal feed	(42) 0,055 - 3,061 mm/rev.		
Cross feed	(42) 0,025 - 1,384 mm/rev.		
Metric thread	(41) 0,1 - 14 mm		
Inch thread	(60) 2 - 112 threads/1"		
Diameter of tailstock sleeve	75 mm	75 mm	75 mm
Travel of tailstock sleeve	185 mm	185 mm	185 mm
Taper of tailstock sleeve	MT 5	MT 5	MT 5
Motor power	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)
Machine dimension	Length	2840 mm	3340 mm
	Depth x Height	1150 x 1610 mm	1150 x 1610 mm
Weight approx.	2420 kg	2720 kg	3000 kg
Art. no.	03-1348BXL	03-1349BXL	03-1347BXL

The Titan 560 Pro Vario is a state-of-the-art, revolutionary manufacturing lathe. The wide range of standard equipment, such as the 3-jaw chuck, steady and follow rest, change gears and the 3-axis digital readout, 40 pos. tool post and holder set, make this model extremely versatile. Furthermore, this model comes equipped with a stepless speed adjustment up to 1500 rpm, allowing the speed to be optimally adjusted to the workpiece and the feed rate.

Titan 560 Pro Vario

Including rapid feed longitudinal and cross



The digital display results in a significant productivity increase of up to 50 %.



High spindle concentricity ≤ 0.009 mm

Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck PO4-315 mm / D8, according DIN 55029	21-2042F	
Soft solid jaws SJ-PS3-315	21-3206	
Soft top jaws STJ-PS3-315	21-3244	
Hard master jaws MJ-PS3-315	21-3284	
Hard reversible jaws TJ-PS3-315	21-3324	
Soft solid jaws SJ-PS4-315	21-3224	
Independent chuck 400 mm / D8, according DIN 55029	21-5070B	
Flange FL 315 mm according DIN 55029, D1-8	21-4061	
Live center with 7 interchangeable tips SMA - MT 5	22-1043	

Optional accessories:

	Art. no.	excl. VAT
High performance live center NCK-A MT5	22-1027	
Taper turning attachment	03-1812	
Turning and facing holder for size C, 40x150 mm	23-1008C3	
Boring bar holder size C, diam. 40 x 160 mm	23-1013	
Carbide turning tool set 20 mm, 6 pcs. incl. boring bar	44-2054	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
10 pcs. metric size center drills	41-1071	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Heavy duty industrial lathe with digital readout

Titan 660

- Various possible applications in general machine construction, production, single part manufacturing etc.
- Centrally positioned, practical feed controls and thread cutting controls (with leadscrew and feed rod)
- Grey cast-iron machine bed, inductive hardened and polished
- State-of-the-art main spindle bearing with high-quality angular ball bearings
- Hardened, polished gears and shafts, even in feed unit
- Complete with longitudinal and cross rapid feed to reduce downtime
- Large spindle bore (105 mm) allows processing of workpieces with a large diameter
- Mechanic coupling allows soft start
- Electro-mechanical foot brake keeps downtime to a minimum
- High performance even at face turning
- Machine bed guideways are reinforced for higher rigidity and fewer vibrations

Spindle bore
105 mm

BERNARDO
INDUSTRY



Serially equipped with steady rest for clamping of long workpieces.



Optionally available: live center MT 5



Complete with rapid feed to reduce downtime enormously.



Independent chuck 400 mm for clamping of irregular shaped workpieces. (optional)

Quality tested



Technical data	Titan 660 x 1500	Titan 660 x 2000	Titan 660 x 3000
Distance between centers	1500 mm	2000 mm	3000 mm
Center height	330 mm	330 mm	330 mm
Swing over bed	660 mm	660 mm	660 mm
Swing over gap	900 mm	900 mm	900 mm
Swing over cross slide	460 mm	460 mm	460 mm
Bed width	400 mm	400 mm	400 mm
Spindle bore	105 mm	105 mm	105 mm
Spindle nose fixture	DIN 55029, D1-8	DIN 55029, D1-8	DIN 55029, D1-8
Speed range	(16) 25 - 1600 rpm	(16) 25 - 1600 rpm	(16) 25 - 1600 rpm
Longitudinal feed	(25) 0,044 - 1,48 mm/rev.	(25) 0,044 - 1,48 mm/rev.	(25) 0,044 - 1,48 mm/rev.
Cross feed	(25) 0,022 - 0,740 mm/rev.	(25) 0,022 - 0,740 mm/rev.	(25) 0,022 - 0,740 mm/rev.
Metric thread	(54) 0,45 - 120 mm	(54) 0,45 - 120 mm	(54) 0,45 - 120 mm
Inch thread	(54) 7/16 - 80 threads/1"	(54) 7/16 - 80 threads/1"	(54) 7/16 - 80 threads/1"
Diameter of tailstock sleeve	90 mm	90 mm	90 mm
Travel of tailstock sleeve	235 mm	235 mm	235 mm
Taper of tailstock sleeve	MT 5	MT 5	MT 5
Motor power	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)
Machine dimension (W x D x H)	3130 x 1200 x 1520 mm	3630 x 1200 x 1520 mm	4630 x 1200 x 1520 mm
Weight approx.	2700 kg	2900 kg	3300 kg
Art. no.	03-1350XL	03-1351XL	03-1352XL

Including BERNARDO
3-jaw chuck 315 mm



Soft solid jaws, soft
top jaws, hard top jaws
available

The turning lathe Titan 660 meets the standards of modern technology. The high user-friendliness (rapid feed, 40 pos. tool post and holder set, mechanic coupling, digital readout and high power range) makes it very popular for machine construction, plant construction, production and single-unit production

Titan 660

INCLUSIVE

40 pos. tool post and holder set system Multifix size C with 4 inserts



Including cable guiding by energy chain



Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck P04-315 mm / D8, according DIN 55029	21-2042F	
3-jaw steel chuck P03-400 mm / D8, according DIN 55029	21-1049F	
Soft solid jaws SJ-PS3-315	21-3206	
Soft solid jaws SJ-PS3-400	21-3207	
Soft solid jaws SJ-PS4-315	21-3224	
Independent chuck 400 mm / D8, according DIN 55029	21-5070B	
Flange FL 315 mm according DIN 55029, D1-8	21-4061	
Flange FL 400 mm according DIN 55029, D1-8	21-4063	
High performance live center NCK-A MT 5	22-1027	
Medium duty live center with 7 interchangeable tips SMA - MT 5	22-1043	
Ball nose live center MT 5 / 150 mm	22-1065	
Steady rest 190 - 380 mm	03-13600	
Taper turning attachment	03-1813	
Turning and facing holder size C, 40 x 150 mm	23-1008C3	
Boring bar holder size C, 40 x 160 mm	23-1013	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Standard accessories:

- Safety clutch
- Rapid feed longitudinal and cross
- LED machine light
- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck PS3-315 mm / D8
- Face plate 450 mm
- Steady rest - Passage up to max. 180 mm
- Follow rest - Passage up to max. 120 mm
- 2 dead centers
- Motor with magnetic brake according to CE
- Foot pedal with brake function acc. to CE
- Initial filling with Shell Tellus 46
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool post holder
- Change gears
- Morse taper drill sleeve
- Splash guard
- Cable guiding by energy chain
- Tools

Mechanic coupling

High spindle concentricity ≤ 0.009 mm

Heavy duty industrial lathe with digital readout

Goliath 660

- Various possible applications in general machine construction, production, single part manufacturing etc.
- Machine bed, cast in one piece, eliminates torsion and vibrations, resulting in best possible accuracy
- State-of-the-art main spindle bearing with high-quality angular ball bearings
- Centrally positioned, practical feed controls and thread cutting controls (with leadscrew and feed rod)
- Complete with longitudinal and cross rapid feed to reduce downtime
- Large gear wheels, hardened and polished
- Removable bridge allows machining of oversize workpieces
- Tailstock can be repositioned for taper turning, handwheel feature adjustable scale (0.02 mm)
- Electro-mechanical foot brake keeps downtime to a minimum
- High performance even at face turning

Including BERNARDO
3-jaw chuck 315 mm



Soft solid jaws, soft
top jaws, hard top jaws
available



Independent chuck 400 mm for clamping of irregular shaped workpieces. (optional)



The machine is equipped with a quick change tool post holder to raise efficiency.

NEW

**Spindle bore
105 mm**



Complete with rapid feed to reduce downtime enormously.



Steady rest with bronze guiding supports long workpieces

**Including rapid feed
longitudinal and cross**



Technical data

Goliath 660

Distance between centers	1000 mm	1500 mm	2000 mm	3000 mm
Center height	330 mm	330 mm	330 mm	330 mm
Swing over bed	660 mm	660 mm	660 mm	660 mm
Swing over gap*	870 mm	870 mm	870 mm	870 mm
Swing over cross slide	420 mm	420 mm	420 mm	420 mm
Bed with	400 mm	400 mm	400 mm	400 mm
Spindle bore	105 mm	105 mm	105 mm	105 mm
Spindle nose fixture	DIN 55029, D1-8			
Speed range	(16) 36 - 1600 rpm			
Longitudinal feed	(65) 0,063 - 2,52 mm/rev.			
Cross feed	(65) 0,027 - 1,07 mm/rev.			
Metric thread	(22) 1 - 14 mm			
Inch thread	(26) 2 - 28 threads/1"			
Diameter of tailstock sleeve	75 mm	75 mm	75 mm	75 mm
Travel of tailstock sleeve	150 mm	150 mm	150 mm	150 mm
Taper of tailstock sleeve	MT 5	MT 5	MT 5	MT 5
Motor power	9,0 kW (12,0 HP)	9,0 kW (12,0 HP)	9,0 kW (12,0 HP)	9,0 kW (12,0 HP)
Machine dimension	Length	2500 mm	3000 mm	3500 mm
	Width x Height	1280 x 1650 mm	1280 x 1650 mm	1280 x 1650 mm
Weight approx.	3510 kg	3630 kg	3750 kg	3990 kg
Art. no.	03-1355XL0	03-1355XL1	03-1355XL2	03-1355XL3

* Removeable bed length: 240 mm

The Goliath 660 is a state-of-the-art, revolutionary manufacturing lathe. The wide range of standard equipment, such as the 3-jaw chuck, steady and follow rest, change gears and the 3-axis digital readout, 40 pos. tool post and holder set, make this model extremely versatile.

Goliath 660

INCLUSIVE

40 pos. tool post and holder set system Multifix size C with 4 inserts



High spindle concentricity ≤ 0.009 mm

Optional accessories:

	Art. no.	excl. VAT
3-jaw steel chuck PO3-400 mm / D8, according DIN 55029	21-1049F	
4-jaw steel chuck PO4-315 mm / D8, according DIN 55029	21-2042F	
Soft solid jaws SJ-PS3-315	21-3206	
Soft solid jaws SJ-PS3-400	21-3207	
Soft solid jaws SJ-PS4-315	21-3224	
Independent chuck 400 mm / D8, according DIN 55029	21-5070B	
Medium duty live center with 7 interchangeable tips SMA - MT 5	22-1043	
High performance live center NCK-A MT 5	22-1027	
Ball nose live center MT 5 / 150 mm	22-1065	
Turning and facing holder size C, 40 x 150 mm	23-1008C3	
Boring bar holder size C, 40 x 160 mm	23-1013	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Standard accessories:

- Safety clutch
- Rapid feed longitudinal and cross
- LED machine light
- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck PS3-315 mm / D8
- Face plate 630 mm
- Steady rest - Passage up to max. 250 mm
- Follow rest - Passage up to max. 110 mm
- 1 dead center / 1 live center
- Motor with magnetic brake according to CE
- Foot pedal with brake function acc. to CE
- Initial filling with Shell Tellus 46
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool post holder
- Morse taper drill sleeve
- Splash guard
- Tools

Heavy duty industrial lathe with digital readout

Titan 800

- Machine bed features strong reinforcements to minimize oscillations and to stabilize bed guiding
- Big range of applications in general machine construction, production, single unit production etc.
- Grey cast-iron prism bed, inductively hardened and precisely polished
- State-of-the-art main spindle bedding with high-quality angular roller bearing
- Complete with rapid traverse longitudinal and cross to reduce downtime
- Removeable bridge allows processing of workpieces with a large diameter
- Centrally located, practical switching of feeds and tapping with leadscrew and feed rod
- Electro-mechanical foot brake clearly reduces downtime
- Hardened, polished gear wheels and shafts, even in feed drive
- Top performance even when face turning
- Large spindle bore (105 mm) for workpieces with a large diameter
- Mechanic coupling allows for soft start



The quick change tool post holder allows a significant reduction of downtime and guarantees high repeat accuracy



Advantage of Bernardo chuck PS3-315 mm / D8: soft solid jaws, hard master jaws, hard reversible top jaws and soft top jaws are optional available.



Logical and accurate control of feed drive, polished gear wheels allow for a smooth run

Including BERNARDO 3-jaw chuck 315 mm

Soft solid jaws, soft top jaws, hard top jaws available



**Spindle bore
105 mm**

Technical data	Titan 800 x 2000	Titan 800 x 3000
Distance between centers	2000 mm	3000 mm
Center height	400 mm	400 mm
Swing over bed	800 mm	800 mm
Swing over gap	1000 mm	1000 mm
Swing over cross slide	540 mm	540 mm
Bed width	400 mm	400 mm
Spindle bore	105 mm	105 mm
Spindle nose fixture	DIN 55029, D1-8	DIN 55029, D1-8
Spindle speed	(16) 25 - 1600 rpm	(16) 25 - 1600 rpm
Longitudinal feed	(25) 0,044 - 1,48 mm/rev.	(25) 0,044 - 1,48 mm/rev.
Cross feed	(25) 0,022 - 0,74 mm/rev.	(25) 0,022 - 0,74 mm/rev.
Metric thread	(54) 0,45 - 120 mm	(54) 0,45 - 120 mm
Inch thread	(54) 7/16 - 80 threads/1"	(54) 7/16 - 80 threads/1"
Diameter of tailstock sleeve	90 mm	90 mm
Travel of tailstock sleeve	235 mm	235 mm
Taper of tailstock sleeve	MT 5	MT 5
Motor power	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)
Machine dimension (W x D x H)	3800 x 1320 x 1580 mm	4800 x 1320 x 1580 mm
Weight approx.	3455 kg	3820 kg
Art. no.	03-1356XL	03-1357XL



Complete with rapid feed for longitudinal and cross travel of apron

The Titan 800 production lathe features top performance and high accuracy. This is an excellent model for medium to difficult turning works and extremely suitable for economic production of single units and serial operations in machine construction, plant engineering, production etc.

Titan 800

Spindle taper
DIN 55029



INCLUSIVE

40 pos. tool post and holder set system Multifix size D with 4 inserts

Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck PO4-315 mm / D8, according DIN 55029	21-2042F	
3-jaw steel chuck PO3-400 mm / D8, according DIN 55029	21-1049F	
Soft solid jaws SJ-PS3-315	21-3206	
Soft solid jaws SJ-PS3-400	21-3207	
Soft solid jaws SJ-PS4-315	21-3224	
Independent chuck 400 mm / D8, according DIN 55029	21-5070B	
Flange FL 315 mm according DIN 55029, D1-8	21-4061	
Flange FL 400 mm according DIN 55029, D1-8	21-4063	
High performance live center NCK-A MT 5	22-1027	
Medium duty live center with 7 interchangeable tips SMA - MT 5	22-1043	
Ball nose live center MT 5 / 150 mm	22-1065	
Steady rest 190 - 380 mm	03-13601	
Taper turning attachment	03-1813	
Turning and facing holder size D, 50 x 180 mm	23-1009D2	
Boring bar holder size D, 50 x 180 mm	23-1014	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	
Universal coolant fluid MN 1103, 5 l canister	54-1206	

Standard accessories:

- Cable guiding by energy chain
- 3-axis digital readout ES-12 V with LCD-display
- 3-jaw chuck PS3-315 mm / D8
- Face plate 500 mm
- Steady rest - Passage up to max. 180 mm
- Follow rest - Passage up to max. 100 mm
- 2 dead centers
- Motor with magnetic brake according to CE
- Foot pedal with brake function according to CE
- Initial filling with Shell Tellus 46
- Rapid feed longitudinal and cross
- Safety clutch
- Coolant device
- 40 pos. tool post and holder set with 4 inserts
- Protective device at tool post holder
- LED machine light
- Change gears
- Morse taper drill sleeve
- Splash guard
- Tools

Including rapid feed longitudinal and cross

High spindle concentricity ≤ 0.009 mm

Heavy duty industrial lathe with digital readout

Titan 660 Vario

- Machine bed features strong reinforcements to minimize oscillations and to stabilize bed guiding
- Fully equipped with 3-axis digital readout, quick change tool post holder, 3-jaw chuck etc.
- Stepless speed adjustment at gear head, ideal adjustment of the cutting speed to the workpiece and the feed speed
- State-of-the-art main spindle bedding with high-quality angular roller bearing
- Complete with rapid traverse longitudinal and cross to reduce downtime
- Large spindle bore (105 mm) for workpieces with a large diameter
- Tailstock with fine scale, removeable for taper turning
- Elektromechanical foot brake clearly reduces downtime
- Mechanic coupling allows for soft start



Independent chuck 400 mm for clamping of irregular shaped workpieces. (optional)



Steady rest with bronze guiding supports long workpieces up to diam. 180 mm.



Complete with rapid feed to reduce downtime enormously.



The quick change tool post holder allows a significant reduction of downtime and guarantees high repeat accuracy

Variable cutting speed



Technical data		Titan 660 Vario			Titan 800 Vario	
Distance between centers		1500 mm	2000 mm	3000 mm	2000 mm	3000 mm
Center height		330 mm	330 mm	330 mm	400 mm	400 mm
Swing over bed		660 mm	660 mm	660 mm	800 mm	800 mm
Swing over gap		900 mm	900 mm	900 mm	1000 mm	1000 mm
Swing over cross slide		460 mm	460 mm	460 mm	540 mm	540 mm
Bed with		400 mm	400 mm	400 mm	400 mm	400 mm
Spindle bore		105 mm	105 mm	105 mm	105 mm	105 mm
Spindle nose fixture		DIN 55029, D1-8			DIN 55029, D1-8	
Speed range		16 - 70 / 50 - 215 / 100 - 475 / 350 - 1500 rpm			16 - 70/50 - 215/100 - 475/350 - 1500 rpm	
Longitudinal feed		(25) 0,044 - 1,48 mm/rev.			(25) 0,044 - 1,48 mm/rev.	
Cross feed		(25) 0,022 - 0,740 mm/rev.			(25) 0,022 - 0,74 mm/rev.	
Metric thread		(54) 0,45 - 120 mm			(54) 0,45 - 120 mm	
Inch thread		(54) 7/16 - 80 threads/1"			(54) 7/16 - 80 threads/1"	
Diameter of tailstock sleeve		90 mm	90 mm	90 mm	90 mm	90 mm
Travel of tailstock sleeve		235 mm	235 mm	235 mm	235 mm	235 mm
Taper of tailstock sleeve		MT 5	MT 5	MT 5	MT 5	MT 5
Motor power		7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)	7,5 kW (10,0 HP)
Machine dimension	Length	3130 mm	3630 mm	4630 mm	3800 mm	4800 mm
	Width x Height	1200 x 1520 mm	1200 x 1520 mm	1200 x 1520 mm	1320 x 1580 mm	1320 x 1580 mm
Weight approx.		2700 kg	2900 kg	3300 kg	3455 kg	3820 kg
Art. no.		03-1353XL	03-1354XL	03-1355XL	03-1358XL	03-1359XL
Price excl. VAT						

The Titan 660 Vario and Titan 800 Vario production lathe features top performance and high accuracy. These are excellent models for medium to difficult turning works and extremely suitable for economic production of single units and serial operations in machine construction, plant engineering, production etc. The serially Delta frequency inverter features many advantages such as the high torque at low speed and the almost constant speed during processing.

Titan 800 Vario

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INDUSTRY

Including rapid feed longitudinal and cross

Including cable guide by energy chain



Optional accessories:

	Art. no.	excl. VAT
4-jaw steel chuck P04-315 mm / D8, according DIN 55029	21-2042F	
3-jaw steel chuck P03-400 mm / D8, according DIN 55029	21-1049F	
Soft solid jaws SJ-PS3-315	21-3206	
Soft solid jaws SJ-PS3-400	21-3207	
Independent chuck 400 mm / D8, according DIN 55029	21-5070B	
Flange FL 315 mm according DIN 55029, D1-8	21-4061	
Flange FL 400 mm according DIN 55029, D1-8	21-4063	
Economy live center Typ PC, MT 5	22-1004	
High performance live center NCK-A MT 5	22-1027	
Medium duty live center with 7 interchangeable tips SMA - MT 5	22-1043	
Steady rest 190 - 380 mm (Titan 660 Vario)	03-13600	
Steady rest 190 - 380 mm (Titan 800 Vario)	03-13601	
Taper turning attachment	03-1813	
Multipurpose indexable turning tool set, 20 mm, 7 pcs.	44-3079	
Machine mount NE 160	53-2012	

Standard accessories:

- Frequency inverter
- Face plate 500 mm
- Rapid feed longitudinal and cross
- 3-jaw chuck PS3-315 mm / D8
- 3-axis digital readout ES-12 V with LCD display
- Steady rest - Passage up to max. 180 mm
- Follow rest - Passage up to max. 100 mm
- 2 dead centers
- Foot pedal with brake function according to CE
- Initial filling with Shell Tellus 46
- 40 pos. tool post and holder set with 4 inserts
- Protective device for tool post holder
- Safety clutch
- Coolant device
- LED machine light
- Change gears
- Morse taper drill sleeve
- Splash guard
- Cable guide by energy chain
- Tools

INCLUSIVE

40 pos. tool post and holder set system Multifix with 4 inserts

Heavy lathe with digital readout

- The machine bed is buckling resistant and vibration-free which enables precise turning
- The transmission of the rotary motion (forwards / backwards) takes place via a drive shaft with hydraulic clutch
- The large dimensioned guideways are inductively hardened and grounded
- The cast-iron headstock with large wall thickness and compact construction guarantees rigidity and stability
- Hardened, polished gear wheels and shafts, even in feed unit
- For machining a wide variety of workpieces, the machine has a speed range of 3,15 - 400 rpm with 36 speeds
- Mechanic coupling allows soft start of the main spindle



Ergonomically arranged control elements on gear head - hardened and polished gears allow for smooth run.



Optional available: 3-jaw chuck Ø 630 mm with mounting plate

Standard accessories:

- 3-axis digital readout ES-12 V with LCD display
- Independent chuck 1000 mm
- Steady rest - Passage diam. 50 - 470 mm (APOLLO 1000)
- Steady rest - Passage diam. 50 - 590 mm (APOLLO 1250)
- Follow rest - Passage diam. 50 - 220 mm
- Motorized tailstock (from distance between center 3000 mm)
- Dead centers
- Cental lubrication
- Initial filling with Shell Tellus 46
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Coolant device
- LED machine light
- Morse taper drill sleeve
- Anchor bolts

Optional accessories:

	Art. no.	excl. VAT
Steady rest 50 - 590 mm f. Apollo 1000	03-1389	
Steady rest 260 - 900 mm f. Apollo 1250	03-1377	
3-jaw chuck Ø 630 mm with collet A2 - 15	03-1378	Prices on request
4-jaw chuck Ø 630 mm with collet A2 - 15	03-1379	
Taper turning attachment	03-1394	



Technical data	APOLLO 1000				APOLLO 1250			
	1500 mm	3000 mm	4000 mm	5000 mm	1500 mm	3000 mm	5000 mm	8000 mm
Turning diameter								
over bed	1000 mm				1250 mm			
over support	650 mm				900 mm			
Travel								
x-axis	510 mm				630 mm			
z-axis	1300 mm	2800 mm	3800 mm	4800 mm	1300 mm	2800 mm	4800 mm	7800 mm
z1-axis	300 mm				300 mm			
Workpiece weight max.	6000 kg				6000 kg			
Bed with	755 mm				755 mm			
Tilting range top slide	± 180°				± 180°			
Spindle speeds (forward / backward)	(24) 3,15 - 315 / (12) 5 - 400 rpm				(24) 3,15 - 315 / (12) 5 - 400 rpm			
Spindle bore	130 mm				130 mm			
Spindle nose fixture	ISO A2-15				ISO A2-15			
Feed								
x-axis z-axis z1-axis	0,064 - 12 mm/rev. 0,032 - 6 mm/rev. 0,016 - 3 mm/rev.				0,064 - 12 mm/rev. 0,032 - 6 mm/rev. 0,016 - 3 mm/rev.			

APOLLO 1000 APOLLO 1250



Complete with rapid feed to reduce downtime enormously.



Motorized adjustable tailstock (from distance between center 3000 mm).



Optional: Steady rest
• 50 - 590 mm (APOLLO 1000)
• 260 - 900 mm (APOLLO 1250)



The hardened main spindle with 130 mm spindle bore is bedded on tapered roller bearings and radial roller bearing.

Spindle bore
130 mm



Technical data	APOLLO 1000				APOLLO 1250			
	1500 mm	3000 mm	4000 mm	5000 mm	1500 mm	3000 mm	5000 mm	8000 mm
Distance between centers	1500 mm	3000 mm	4000 mm	5000 mm	1500 mm	3000 mm	5000 mm	8000 mm
Rapid feed								
x-axis z-axis	1870 mm/min 3740 mm/min				1870 mm/min 3740 mm/min			
Thread cutting								
metric diametric	(45) 1 - 120 mm (42) 30 - 1/4 DP				(45) 1 - 120 mm (42) 30 - 1/4 DP			
Module whitworth	(46) 0,5 - 60 mm (48) 0,5 - 60 GPZ				(46) 0,5 - 60 mm (48) 0,5 - 60 GPZ			
Tailstock sleeve taper / Ø	metric 80 / 160 mm				metric 80 / 160 mm			
Tailstock sleeve stroke	300 mm				300 mm			
Tailstock cross adjustment	± 2,5 mm				± 2,5 mm			
Motor power	22 kW				22 kW			
Length x Width	4,6 x 1,81 m	6,1 x 1,81 m	7,1 x 1,81 m	8,1 x 1,81 m	4,6 x 1,88 m	6,1 x 1,88 m	8,1 x 1,88 m	11,1 x 1,88 m
Height	1,79 m	1,79 m	1,79 m	1,79 m	1,92 m	1,92 m	1,92 m	1,92 m
Weight approx.	9450 kg	10.850 kg	11800 kg	12.650 kg	10.050 kg	11.550 kg	13.350 kg	16.800 kg
Art. no.	03-1371XL	03-1372XL	03-1373XL0	03-1373XL	03-1375XL	03-1376XL	03-1380XL	03-1381XL
Price excl. VAT	on request	on request	on request	on request	on request	on request	on request	on request

Heavy lathe with digital readout

- Machine bed features strong reinforcements to minimize oscillations and to stabilize bed guiding
- The transmission of the rotary motion (forwards / backwards) takes place via a drive shaft with hydraulic clutch
- Large gear wheels, hardened and polished
- The closed gearbox allows a large number of feeds and pitches
- Large speed range with 33 speeds for machining a wide variety of workpieces
- Mechanic coupling allows soft start of the main spindle
- The large dimensioned guideways are inductively hardened and grounded



Motorized adjustable tailstock (from distance between center 3000 mm).



The digital display results in a significant productivity increase of up to 50 %.



Ergonomically arranged control elements on gear head - hardened and polished gears allow for smooth run.

Standard accessories:

- 3-axis digital readout ES-12 V with LCD display
- Independent chuck 1400 mm (APOLLO 1600)
- Independent chuck 1600 mm (APOLLO 2000)
- Steady rest - Passage diam. 220 - 630 mm (APOLLO 1600)
- Steady rest - Passage diam. 400 - 750 mm (APOLLO 2000)
- Follow rest - Passage diam. 50 - 220 mm
- Motorized tailstock (from distance between center 3000 mm)
- Dead centers
- Central lubrication
- Initial filling with Shell Tellus 46
- 4-way tool post holder
- Protective cover at 4-way tool post holder
- Coolant device
- LED machine light
- Morse taper drill sleeve
- Anchor bolts

Optional accessories:

- Steady rest 500 - 1100 mm
- Taper turning attachment

Art. no.	excl. VAT
03-1390	on request
03-1394	on request



Picture show APOLLO 1250 x 3000 with optional steady rest

Technical data	APOLLO 1600			APOLLO 2000			
	3000 mm	5000 mm	8000 mm	2000 mm	3000 mm	5000 mm	8000 mm
Distance between centers	3000 mm	5000 mm	8000 mm	2000 mm	3000 mm	5000 mm	8000 mm
Turning diameter							
over bed	1600 mm			2000 mm			
over support	1280 mm			1600 mm			
Travel							
x-axis	820 mm			1020 mm			
z-axis	2800 mm	4800 mm	7800 mm	1800 mm	2800 mm	4800 mm	7800 mm
z1-axis	200 mm			200 mm			
Workpiece weight max.	6000 kg			10.000 kg			
Bed with	970 mm			1100 mm			
Tilting range top slide	± 180°			± 180°			
Spindle speeds (forward / backward)	(21) 2,5 - 250 / (12) 3,15 - 250 rpm			(21) 2,5 - 250 / (12) 3,15 - 250 rpm			
Spindle bore	130 mm			130 mm			
Spindle nose fixture	ISO A2-15			ISO A2-15			
Feed							
x-axis z-axis z1-axis	0,064 - 12 mm/rev. 0,032 - 6 mm/rev. 0,016 - 3 mm/rev.			0,064 - 12 mm/rev. 0,032 - 6 mm/rev. 0,016 - 3 mm/rev.			

APOLLO 1600 APOLLO 2000



Complete with rapid feed to reduce downtime enormously.

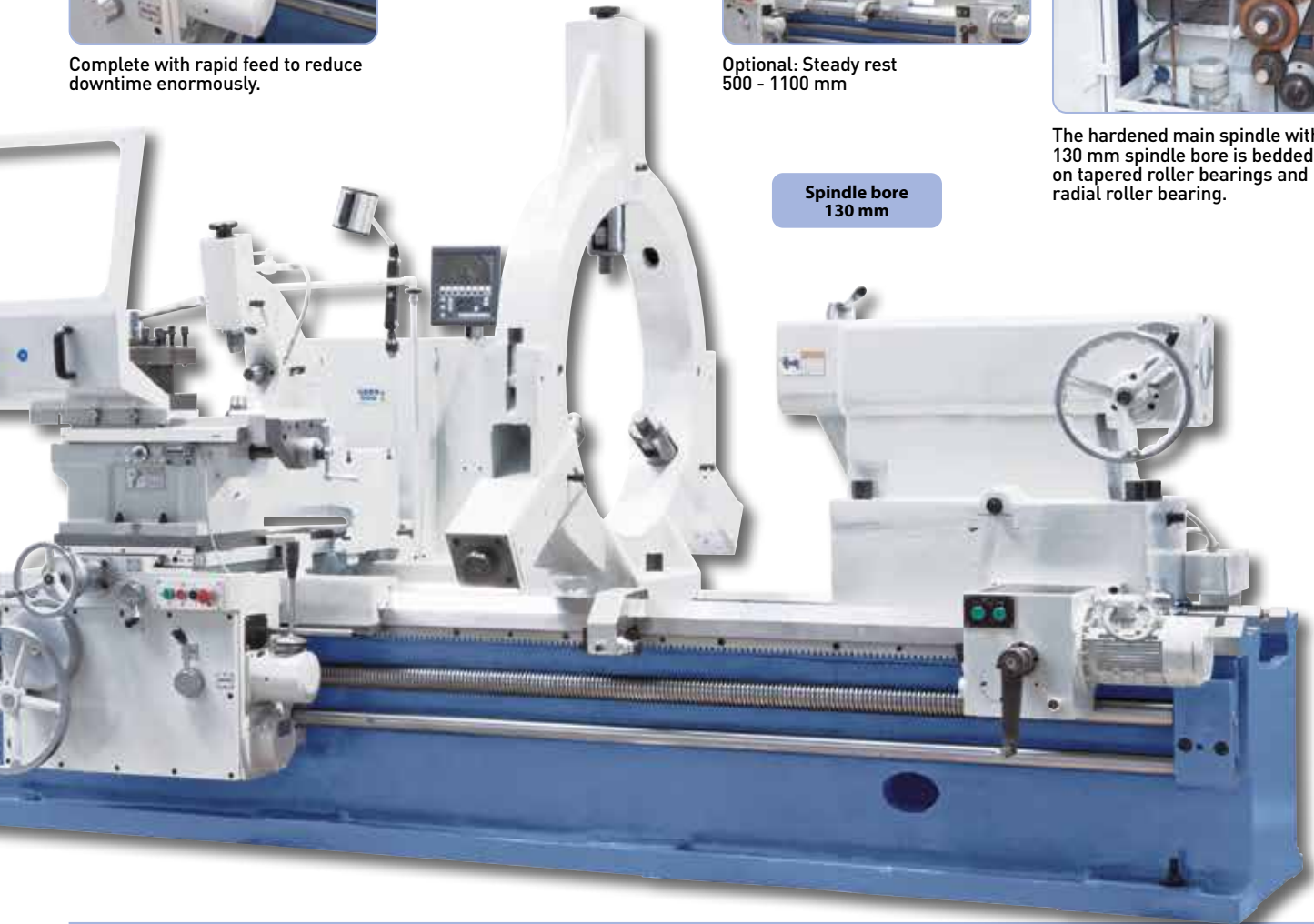


Optional: Steady rest
500 - 1100 mm



The hardened main spindle with 130 mm spindle bore is bedded on tapered roller bearings and radial roller bearing.

Spindle bore
130 mm



Technical data	APOLLO 1600			APOLLO 2000			
	3000 mm	5000 mm	8000 mm	2000 mm	3000 mm	5000 mm	8000 mm
Distance between centers	3000 mm	5000 mm	8000 mm	2000 mm	3000 mm	5000 mm	8000 mm
Rapid feed							
x-axis z-axis	1870 mm/min 3740 mm/min			1870 mm/min 3740 mm/min			
Thread cutting							
metric diametric	(45) 1 - 120 mm (42) 30 - 1/4 DP			(45) 1 - 120 mm (42) 30 - 1/4 DP			
Module whitworth	(46) 0,5 - 60 mm (48) 0,5 - 60 TPI			(46) 0,5 - 60 mm (48) 0,5 - 60 TPI			
Tailstock sleeve taper / Ø	metric 80 / 160 mm			MT 6 / 200 mm			
Tailstock sleeve stroke	300 mm			300 mm			
Tailstock cross adjustment	± 2,5 mm			± 2,5 mm			
Motor power	22 kW			30 kW			
Length x Width	6,04 x 2,06 m	8,04 x 2,06 m	11,04 x 2,06 m	5,2 x 2,2 m	6,1 x 2,2 m	8,1 x 2,2 m	12,92 x 2,38 m
Height	2,23 m	2,23 m	2,23 m	2,4 m	2,4 m	2,4 m	2,51 m
Weight approx.	12.900 kg	16.200 kg	21.020 kg	13.000 kg	18.500 kg	23.200 kg	30.080 kg
Art. no.	03-1382XL	03-1383XL	03-1384XL	03-1385XL	03-1386XL	03-1387XL	03-1388XL
Price excl. VAT	on request	on request	on request	on request	on request	on request	on request

- Electronic handwheel for manual travel of x- and y-axis come standard
- Both axis feature AC-servo motors and ball screw
- Wide cross slide allows mounting of various tool post holders
- High rapid feed allows significant reduction of downtime
- Brushless AC-motor drive and feed drive
- Main spindle features pre-tightened high-quality angular bearings, guarantees best possible accuracy
- User-friendly, easy-to-understand Siemens control 808D Advanced
- Solid headstock features precisely bedded main spindle (spindle bore 56 mm)



3-jaw chuck 160 mm comes standard.

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Standard accessories:

- 3-jaw chuck 160 mm
- Automatic 6 station turret
- Tool holder (3 pcs.)
- Siemens 808D Advanced
- Coolant device
- LED machine light
- Live center MT 4
- Automatic lubrication of longitudinal and cross slide
- Electronic handwheel
- Machine casing
- Tools

Technical data	CK 320 x 500	CK 320 x 750	CK 320 x 1000
Distance between centers	500 mm	750 mm	1000 mm
Center height	160 mm	160 mm	160 mm
Swing over bed	320 mm	320 mm	320 mm
Swing over cross slide	150 mm	150 mm	150 mm
Bed width	215 mm	215 mm	215 mm
Spindle bore	56 mm	56 mm	56 mm
Spindle nose fixture	A2-5	A2-5	A2-5
Speed range, stepless	150 - 2500 rpm	150 - 2500 rpm	150 - 2500 rpm
Travel x-axis / z-axis	160 mm / 500 mm	160 mm / 750 mm	160 mm / 1000 mm
Rapid feed x- / z-axis	4 / 7 m/min	4 / 7 m/min	4 / 7 m/min
Number of tool stations	6 pcs.	6 pcs.	6 pcs.
Dimension tool shank	16 x 16 mm	16 x 16 mm	16 x 16 mm
Positioning accuracy	± 0,01 mm	± 0,01 mm	± 0,01 mm
Diameter of tailstock sleeve	45 mm	45 mm	45 mm
Travel of tailstock sleeve	100 mm	100 mm	100 mm
Taper of tailstock sleeve	MT 4	MT 4	MT 4
Motor power	3,7 kW	3,7 kW	3,7 kW
Machine dimension (W x D x H)	1660 x 1150 x 1840 mm	1910 x 1150 x 1840 mm	2160 x 1150 x 1840 mm
Weight approx.	870 kg	1030 kg	1190 kg
Art. no.	03-1402XL	03-1402XL0	03-1402XL1

CK 320 - Serie



Siemens 808D Advanced control features numerous programmed functions (standard).



Serially with automatic 6-station turret.

The solid tailstock with spindle taper MT 4 can be adjusted for taper turning.



Spindle bore
56 mm

Variable
cutting speed



Optional accessories:

Hydr. 3-jaw chuck 160 mm and hydr. adjustable tailstock sleeve	Art. no.	excl. VAT
Steady and follow rest	03-1402XL2	on request
Tool holder (3 pcs.)	03-1402XL3	

Siemens
808D Advanced

- Electronic handwheel for manual travel of x- and y-axis come standard
- Both axis feature AC-servo motors and ball screw
- Wide cross slide allows mounting of various tool post holders
- Stable tailstock with hydraulically adjustable tailstock spindle
- High rapid feed allows significant reduction of downtime
- Brushless AC-motor drive and feed drive
- Main spindle features pre-tightened high-quality angular bearings, guarantees best possible accuracy
- User-friendly, easy-to-understand Siemens control 808D Advanced
- Solid headstock features precisely bedded main spindle (spindle bore 60 mm)

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**Best
Price**



Hydraulic 3-jaw chuck diam.
200 mm



Standard accessories:

- Hydraulic 3-jaw chuck diam. 200 mm with hydraulic unit
- Automatic 6 station turret
- Tool holder (3 pcs.)
- Hydraulic adjustment of the tailstock sleeve
- Siemens 808D Advanced
- Coolant device
- LED machine light
- Live center MT 4
- Automatic lubrication of longitudinal and cross slide
- Electronic handwheel
- Machine casing
- Tools

Technical data	CK 360 x 500	CK 360 x 750
Distance between centers	500 mm	750 mm
Center height	180 mm	180 mm
Swing over bed	360 mm	360 mm
Swing over cross slide	150 mm	150 mm
Bed width	260 mm	260 mm
Spindle bore	60 mm	60 mm
Spindle nose fixture	A2-6	A2-6
Speed range, stepless	150 - 2500 rpm	150 - 2500 rpm
Travel x-axis / z-axis	180 mm / 500 mm	180 mm / 750 mm
Rapid feed x- / z-axis	4 / 7 m/min	4 / 7 m/min
Number of tool stations	6 pcs.	6 pcs.
Dimension tool shank	16 x 16 mm	16 x 16 mm
Positioning accuracy	± 0,01 mm	± 0,01 mm
Diameter of tailstock sleeve	50 mm	50 mm
Travel of tailstock sleeve	100 mm	100 mm
Taper of tailstock sleeve	MK 4	MK 4
Motor power	3,7 kW	3,7 kW
Machine dimension (W x D x H)	2200 x 1150 x 1835 mm	2450 x 1150 x 1835 mm
Weight approx.	1390 kg	1550 kg
Art. no.	03-1403XL	03-1403XLO



Serially with foot pedal for clamping the chuck or moving the tailstock sleeve

CK 360 - Serie



Including electronic handwheel



Robust turret with 6 stations.

Hydraulic adjustment of the tailstock sleeve



Spindle bore
60 mm

Siemens
808D Advanced

Variable
cutting speed



Optional accessories:

Steady and follow rest
Tool holder (3 pcs.)

Art. no. excl. VAT
03-1403XL1
03-1402XL3

Hydraulic
tailstock

- Electronic handwheel for manual travel of x- and y-axis come standard
- Both axis feature AC-servo motors and ball screw
- Wide cross slide allows mounting of various tool post holders
- Stable tailstock with hydraulically adjustable tailstock spindle
- High rapid feed allows significant reduction of downtime
- Brushless AC-motor drive and feed drive
- Main spindle features pre-tightened high-quality angular bearings, guarantees best possible accuracy
- User-friendly, easy-to-understand Siemens control 808D Advanced
- Solid headstock features precisely bedded main spindle (spindle bore 60 mm)

BERNARDO
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PROFESSIONAL

**Best
Price**



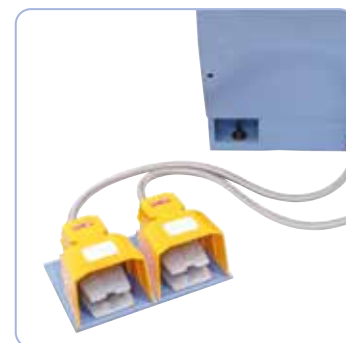
Hydraulic 3-jaw chuck diam.
200 mm



Standard accessories:

- Hydraulic 3-jaw chuck diam. 200 mm with hydraulic unit
- Automatic 8 station turret
- Tool holder (3 pcs.)
- Hydraulic adjustment of the tailstock sleeve
- Siemens 808D Advanced
- Coolant device
- LED machine light
- Live center MT 4
- Automatic lubrication of longitudinal and cross slide
- Electronic handwheel
- Machine casing
- Tools

Technical data	CK 400 x 750	CK 400 x 1000
Distance between centers	750 mm	1000 mm
Center height	200 mm	200 mm
Swing over bed	400 mm	400 mm
Swing over cross slide	240 mm	240 mm
Bed width	330 mm	330 mm
Spindle bore	66 mm	66 mm
Spindle nose fixture	A2-6	A2-6
Speed range, stepless	30 - 2500 rpm	30 - 2500 rpm
Travel x-axis / z-axis	210 mm / 750 mm	210 mm / 1000 mm
Rapid feed x- / z-axis	6 / 8 m/min	6 / 8 m/min
Number of tool stations	8 pcs.	8 pcs.
Dimension tool shank	20 x 20 mm	20 x 20 mm
Positioning accuracy	± 0,01 mm	± 0,01 mm
Diameter of tailstock sleeve	55 mm	55 mm
Travel of tailstock sleeve	140 mm	140 mm
Taper of tailstock sleeve	MT 4	MT 4
Motor power	5,5 kW	5,5 kW
Machine dimension (W x D x H)	2850 x 1510 x 1950 mm	3100 x 1510 x 1950 mm
Weight approx.	1780 kg	1960 kg
Art. no.	03-1404XL	03-1404XLO

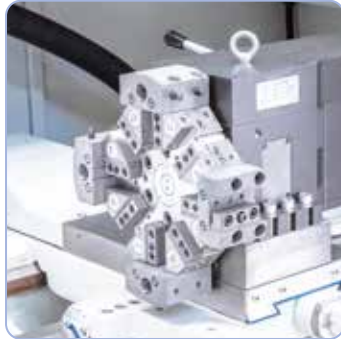


Serially with foot pedal for clamping the chuck or moving the tailstock sleeve

CK 400 - Serie



Including electronic handwheel



Robust turret with 8 stations.

Hydraulic adjustment of the tailstock sleeve



NEW

Siemens
808D Advanced

Spindle bore
66 mm

Variable
cutting speed



Optional accessories:
Steady and follow rest

Art. no. excl. VAT
03-1404XL1

Hydraulic
tailstock

<p>3-Backenfutter Bernardo aus Guss 3-jaw chuck Bernardo - cast iron</p>	<p>3-Backenfutter Bernardo aus Guss 3-jaw chuck Bernardo - cast iron</p>	<p>3-Backenfutter Bernardo aus Guss 3-jaw chuck Bernardo - cast iron</p>	<p>4-Backenfutter Bernardo aus Guss 4-jaw chuck Bernardo - cast iron</p>
			
<p>Typ DK11, nach DIN 6350 Durchmesser 80 - 630 mm Type DK11, according to DIN 6350 Diameter 80 - 630 mm</p>	<p>Typ DK11-C, nach DIN 55027 Durchmesser 125/3 - 400/11 Type DK11-C, according to DIN 55027 Diameter 125/3 - 400/11</p>	<p>Typ DK11-D, nach DIN 55029 Durchmesser 125/3 - 400/11 Type DK11-D, according to DIN 55029 Diameter 125/3 - 400/11</p>	<p>Typ DK12, nach DIN 6350 Durchmesser 80 - 630 mm Type DK12, according to DIN 6350 Diameter 80 - 630 mm</p>
<p>4-Backenfutter Bernardo aus Guss 4-jaw chuck Bernardo - cast iron</p>	<p>4-Backenfutter Bernardo aus Guss 4-jaw chuck Bernardo - cast iron</p>	<p>Diverse Backen BERNARDO-Drehfutter Various jaws for BERNARDO chucks</p>	<p>Diverse Backen BERNARDO-Drehfutter Various jaws for BERNARDO chucks</p>
			
<p>Typ DK12-C, nach DIN 55027 Durchmesser 125/3 - 400/11 Type DK12-C, according to DIN 55027 Diameter 125/3 - 400/11</p>	<p>Typ DK12-D, nach DIN 55029 Durchmesser 125/3 - 400/11 Type DK12-D, according to DIN 55029 Diameter 125/3 - 400/11</p>	<p>Diverse Bohr-, Dreh- und Grundbacken für BERNARDO-Drehfutter Various solid jaws and hard base jaws for BERNARDO chucks</p>	<p>Diverse Monoblock-, Umkehr und Aufsatzbacken für BERNARDO-Drehfutter Various soft solid jaws, soft top jaws and hard top jaws for BERNARDO chucks</p>
<p>3-Backenfutter Bernardo aus Guss 3-jaw chuck Bernardo - cast iron</p>	<p>3-Backenfutter Bernardo aus Stahl 3-jaw chuck Bernardo - steel</p>	<p>3-Backenfutter Bernardo aus Stahl 3-jaw chuck Bernardo - steel</p>	<p>3-Backenfutter Bernardo aus Stahl 3-jaw chuck Bernardo - steel</p>
			
<p>Typ PS3, nach DIN 6350 Durchmesser 80 - 630 mm Type PS3, according to DIN 6350 Diameter 80 - 630 mm</p>	<p>Typ PO3, nach DIN 6350 Durchmesser 80 - 630 mm Type PO3, according to DIN 6350 Diameter 80 - 630 mm</p>	<p>Typ PO3-C, nach DIN 55027 Durchmesser 125/3 - 400/11 Type PO3-C, according to DIN 55027 Diameter 125/3 - 400/11</p>	<p>Typ PO3-D, nach DIN 55029 Durchmesser 125/3 - 500/11 Type PO3-D, according to DIN 55029 Diameter 125/3 - 500/11</p>
<p>3-Backenfutter Bernardo aus Guss 3-jaw chuck Bernardo - cast iron</p>	<p>4-Backenfutter Bernardo aus Guss 4-jaw chuck Bernardo - cast iron</p>	<p>4-Backenfutter Bernardo aus Stahl 4-jaw chuck Bernardo - steel</p>	<p>4-Backenfutter Bernardo aus Stahl 4-jaw chuck Bernardo - steel</p>
			
<p>Typ PS3-D, nach DIN 55029 Durchmesser 125/4 - 500/11 Type PS3-D, according to DIN 55029 Diameter 125/4 - 500/11</p>	<p>Typ PS4, nach DIN 6350 Durchmesser 100 - 630 mm Type PS4, according to DIN 6350 Diameter 100 - 630 mm</p>	<p>Typ PO4, nach DIN 6350 Durchmesser 125 - 630 mm Type PO4, according to DIN 6350 Diameter 125 - 630 mm</p>	<p>Typ PO4-C, nach DIN 55027 Durchmesser 160/4 - 400/11 Type PO4-C, according to DIN 55027 Diameter 160/4 - 400/11</p>

4-Backenfutter Bernardo aus Stahl	Kurzkegelflansch FL aus Guss	Kurzkegelflansch FLD aus Guss	Kurzkegelflansch BISON aus Guss
4-jaw chuck Bernardo - steel	Cast iron adapter FL	Cast iron adapter FLD	Adapter plates for BISON chucks
			
Typ P04-D, nach DIN 55029 Durchmesser 160/4 - 400/11 Type P04-D, according to DIN 55029 Diameter 160/4 - 400/11	DIN 55029, futterseitig plan Durchmesser 125/3 - 630/15 DIN 55029, semi machined Diameter 125/3 - 630/15	DIN 55029, futterseitig vorgedreht u. gebohrt Durchmesser 125/3 - 630/15 DIN 55029, fully machined Diameter 125/3 - 630/15	Typ 8230, DIN 55027 Durchmesser 160/4 - 630/15 Type 8230, DIN 55027 Diameter 160/4 - 630/15
Keilstangenfutter BISON (RHU)	Keilstangenfutter BISON (RHU)	Backen für Keilstangenfutter	Planscheibe BERNARDO K72
Key bar lathe chuck BISON (RHU)	Key bar lathe chuck BISON (RHU)	Jaws for key bar lathe chuck	Independent chuck BERNARDO K72
			
Typ 3434, nach DIN 55027 Durchmesser 125/3 - 315/11 Type 3434, according to DIN 55027 Diameter 125/3 - 315/11	Typ 3444, nach DIN 55029 Durchmesser 125/3 - 315/11 mm Type 3444, according to DIN 55029 Diameter 125/3 - 315/11 mm	Div. Umkehr-, Grund-, Weiche und harte Aufsatzbacken Various reversible jaws, base-jaws, soft and hardened top-jaws	Typ K72, nach DIN 6350 Durchmesser 80 - 1250 mm Type K72, according to DIN 6350 Diameter 80 - 1250 mm
Planscheibe BERNARDO K72	Planscheibe BERNARDO K72	Mitlaufende Körnerspitze Typ PC	Hochleistungskörnerspitze NCK-A
Independent chuck BERNARDO K72	Independent chuck BERNARDO K72	Economy live center Type PC	High performance live center NCK-A
			
Typ K72-C, nach DIN 55027 Durchmesser 160/3 - 1600/15 Type K72-C, according to DIN 55027 Diameter 160/3 - 1600/15	Typ K72-D, nach DIN 55029 Durchmesser 160/3 - 1600/15 Type K72-D, according to DIN 55029 Diameter 160/3 - 1600/15	MK 1 / MK 2 / MK 3 / MK 4 / MK 5 MT 1 / MT 2 / MT 3 / MT 4 / MT 5	MK 3 / MK 4 / MK 5 / MK 6 MT 3 / MT 4 / MT 5 / MT 6
Hochleistungskörnerspitze NCK-B	Mitlaufende Körnerspitze SMA	Mitlaufender Zentrierkegel	Revolverkopf mit 6 Stationen
High performance live center NCK-B	Medium duty live center SMA	Ball nose live center	6 station revolving tailstock turret
			
Mit verlängerter Spitze MK 3 / MK 4 / MK 5 With long nose MT 3 / MT 4 / MT 5	Mit 7 auswechselbaren Einsätzen MK 2 / MK 3 / MK 4 / MK 5 With 7 interchangeable tips MT 2 / MT 3 / MT 4 / MT 5	MK 2 - 60 mm / MK 3 - 80 mm MK 3 - 100 mm / MK 4 - 130 mm MK 4 - 150 mm / MK 5 - 150 mm	MK 2 / MK 3 / MK 4 ohne Einsätze MT 2 / MT 3 / MT 4 without inserts


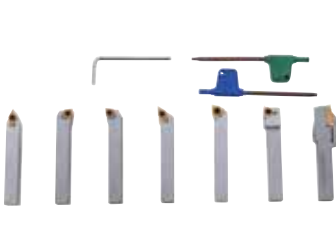
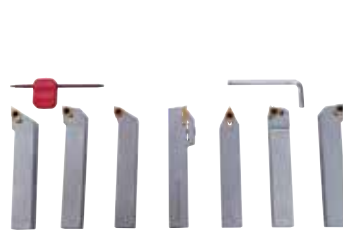












Revolverkopf mit 3 Stationen 3 station revolving tailstock turret	Revolverkopf mit 4 Stationen 4 station revolving tailstock turret	Schnellspannbohrfutter Keyless drill chuck	Schnellspannbohrfutter Keyless drill chuck
			
MK 2 inklusive Einsätze MT 2 including inserts	MK 2 inklusive Einsätze MT 2 including inserts	Mit Direktaufnahme MK 2 1 - 13 mm / 1 - 16 mm with direct mount MT 2 1 - 13 mm / 1 - 16 mm	Mit Direktaufnahme MK 3, 1 - 16 mm / MK 4, 1 - 16 mm / MK 5, 1 - 16 mm with direct mount MT 3, 1 - 16 mm / MT 4, 1 - 16 mm, MT 5, 1 - 16 mm
Schnellspannbohrfutter Keyless drill chuck	Dreibeckendrehfutter 3-jaw chuck	Spannzangenfutter ER 25 ER 25 collet fixture	Spannzangenset ER 25 ER 25 round hole collets set
			
Mit Direktaufnahme MK 5, 1 - 25 mm with direct mount MT 5, 1 - 15 mm	Durchmesser: 80 mm Mit 5C Spannzangenaufnahme Diameter: 80 mm with 5C collet taper	Für Spannzangen von 1 - 16 mm For collets from 1 - 16 mm	1 - 16 mm, 15-tlg. Für Spannzangenfutter ER 25 1 - 16 mm, 15 pcs. For ER 25 collet fixture
Spannzangenfutter ER - D ER - D collet fixture	Spannzangenfutter ER - D ER - D collet fixture	Spannzangenset ER ER round hole collets set	Spannzangenfutter 5C 5C collet fixture
			
ER 16 - D 22 Spannbereich / Clamping range: 1 - 10 mm ER 32 - D 72 / ER 32 - D 95 Spannbereich / Clamping range: 3 - 20 mm	ER 25 - D 72 / ER 25 - D 52 / ER 25 - D 100 Spannbereich / Clamping range: 2 - 16 mm	ER 16, 1 - 10 mm, 10 pcs. ER 25, 2 - 16 mm, 15 pcs. ER 32, 3 - 20 mm, 18 pcs. ER 40, 4 - 26 mm, 23 pcs.	Für Spannzangen von 3 - 26 mm For collets from 3 - 26 mm
Spannzangenfutter 5C, DIN 55029 5C collet fixture, DIN 55029	Spannzangenset 5C 5C round hole collets set	Schnellwechselstahlhalterset Quick change set	Schnellwechselstahlhalterset Quick change set
			
Mit Aufnahme D1-4 / D1-6 Für Spannzangen von 3 - 26 mm With mounting D1-4 / D1-6 For collets from 3 - 26 mm	3 - 26 mm, 24 tlg. für Spannzangenfutter 5C 3 - 26 mm, 24 pcs. for 5C collet fixture	Modell BERNARDO Größe 5-4 für Spitzenhöhen bis 90 mm Model BERNARDO size 5-4 for center height up to 90 mm	Modell BERNARDO Größe 10 für Spitzenhöhen bis 120 mm Model BERNARDO size 10 for center height up to 120 mm

Schnellwechselstahlhalterset	Schnellwechselstahlhalterset	Schnellwechselstahlhalterset	Schnellwechselstahlhalterset
Quick change set	Quick change set	40 pos. tool post & holder set	40 pos. tool post & holder set
			
<p>Modell BERNARDO Größe 20 für Spitzenhöhen bis 150 mm Model BERNARDO size 20 for center height up to 150 mm</p>	<p>Modell BERNARDO Größe 30 für Spitzenhöhen bis 203 mm Model BERNARDO size 30 for center height up to 203 mm</p>	<p>System Multifix, Typ Aa, inkl. 4 Einsätze Für Drehdurchmesser 120 - 220 mm System Multifix, type Aa, incl. 4 inserts For working diameter 120 - 220 mm</p>	<p>System Multifix, Typ A, inkl. 4 Einsätze Für Drehdurchmesser 150 - 300 mm System Multifix, type A, incl. 4 inserts For working diameter 150 - 300 mm</p>
Schnellwechselstahlhalterset	Schnellwechselstahlhalterset	Schnellwechselstahlhalterset	Schnellwechselstahlhalterset
40 pos. tool post & holder set	40 pos. tool post & holder set	40 pos. tool post & holder set	40 pos. tool post & holder set
			
<p>System Multifix, Typ E, inkl. 4 Einsätze Für Drehdurchmesser 200 - 400 mm System Multifix, type E, incl. 4 inserts For working diameter 200 - 400 mm</p>	<p>System Multifix, Typ B, inkl. 4 Einsätze Für Drehdurchmesser 300 - 500 mm System Multifix, type B, incl. 4 inserts For working diameter 300 - 500 mm</p>	<p>System Multifix, Typ C, inkl. 4 Einsätze Für Drehdurchmesser 400 - 700 mm System Multifix, type C, incl. 4 inserts For working diameter 400 - 700 mm</p>	<p>System Multifix, Typ D, inkl. 4 Einsätze Für Drehdurchmesser 600 - 1000 mm System Multifix, type D, incl. 4 inserts For working diameter 600 - 1000 mm</p>
Taschenmessschieber mit Rundskala	Digital-Taschenmessschieber	Werkstattmessschieber	Digital-Werkstattmessschieber
Dial caliper	Digital caliper	Mono block vernier caliper	Big size digital caliper
			
<p>Messbereich 150 x 0,02 mm, 300 x 0,02 mm Range: 150 x 0,02 mm, 300 x 0,02 mm</p>	<p>Messbereich: 150 x 0,01 mm, 300 x 0,01 mm Range: 150 x 0,01 mm, 300 x 0,01 mm</p>	<p>Messbereich: 500 bzw. 1000 x 0,02 mm, mit Messerspitzen 150 mm Range: 500 or 1000 x 0,02 mm, with upper jaws 150 mm</p>	<p>Messbereich: 500 x 0,01 mm, mit Messerspitzen 200 mm Range: 500 x 0,01 mm, with upper jaws 200 mm</p>
Tiefenmessschieber	Höhenmess- und Anreißgerät	Digital-Höhenmess- und Anreißgerät	Kombinations-Winkelmesser
Depth vernier gauge	Double beam dial height gauge	Double column digital height gauge	Combination square set protractor
			
<p>Messbereich: 200 x 0,02 mm, mit abgesetzter Schiene Range: 200 x 0,02 mm, with hook</p>	<p>Mit Messuhr, Messbereich: 300 x 0,01 mm / 500 x 0,01 mm With dial gauge, Range: 300 x 0,01 mm / 500 x 0,01 mm</p>	<p>Messbereich: 300 x 0,01 mm / 500 x 0,01 mm Range: 300 x 0,01 mm / 500 x 0,01 mm</p>	<p>Länge: 300 x 0,5 mm Length: 300 x 0,5 mm</p>

<p>Universal-Winkelmesser</p>	<p>Messzeugsatz 3-tlg.</p>	<p>Messzeugsatz 4-tlg.</p>	<p>Messzeugsatz 5-tlg.</p>
<p>Univeral bevel protractor</p>	<p>Professional measuring tool set</p>	<p>General purpose measuring tool set</p>	<p>Precision measuring tool set</p>
			
<p>Schienenlänge: 300 mm Messbereich: 0 - 360°, mit Lupe Length: 300 mm Range: 0 - 360°, with magnifier</p>	<p>Schiebelehre, Mikrometer und Innenmessschraube in Holzkassette Vernier caliper, micrometer and inside micrometer in wooden box</p>	<p>Schiebelehre, Mikrometer, Massstab u. Haarwinkel in Kunststoffkassette Vernier caliper, micrometer, edge square and steel ruler in plastic box</p>	<p>Messwerkzeuge aus Edelstahl, rostfrei mattverchromt, in Holzkassette Different stainless steel measuring tools, packed in wooden box</p>
<p>Bügelmessschrauben 6-tlg.</p>	<p>Bügelmessschrauben 6-tlg.</p>	<p>Digital-Bügelmessschrauben 4-tlg.</p>	<p>Tiefenmessschraube</p>
<p>Outside micrometer set</p>	<p>Outside micrometer set</p>	<p>Electronic digital micrometer set</p>	<p>Depth micrometer</p>
			
<p>Messbereich: 0 - 150 x 0,01 mm Range: 0 - 150 x 0,01 mm</p>	<p>Messbereich: 150 - 300 x 0,01 mm Range: 150 - 300 x 0,01 mm</p>	<p>Messbereich: 0 - 100 x 0,001 mm Range: 0 - 100 x 0,001 mm</p>	<p>Messbereich: 0 - 100 x 0,01 mm Range: 0 - 100 x 0,01 mm</p>
<p>Digitale Tiefenmessschraube</p>	<p>Innenmessschrauben 4-tlg.</p>	<p>Digitale Innenmessschrauben 4-tlg.</p>	<p>Präzisions-Messuhr</p>
<p>Electronic digital depth micrometer</p>	<p>Inside micrometer set</p>	<p>4 pcs. digital inside micrometer set</p>	<p>Dial indicator general style</p>
			
<p>Messbereich: 0 - 100 x 0,001 mm Range: 0 - 100 x 0,001 mm</p>	<p>Messbereich: 5 - 100 x 0,01 mm Range: 5 - 100 x 0,01 mm</p>	<p>Messbereich: 5 - 100 x 0,001 mm Range: 5 - 100 x 0,001 mm</p>	<p>Messbereich: 10 x 0,01 mm Range: 10 x 0,01 mm</p>
<p>Präzisions-Messuhr, staubgeschützt</p>	<p>Messuhr mit großer Messspanne</p>	<p>Digitale Messuhr</p>	<p>Präzisionsfühlhebelmessgerät</p>
<p>Dial indicator, dust resistant</p>	<p>Large size dial indicator</p>	<p>Digital indicator</p>	<p>Dial test indicator</p>
			
<p>Messbereich: 10 x 0,01 mm Staubgeschützt Range: 10 x 0,01 mm With dust resistant function</p>	<p>Messbereich: 100 x 0,01 mm Range: 100 x 0,01 mm</p>	<p>Messbereich: 10 x 0,01 mm Range: 10 x 0,01 mm</p>	<p>Messbereich: 0 - 0,8 x 0,01 mm Range: 0 - 0,8 x 0,01 mm</p>

Digitales Fühlhebelmessgerät Digital dial test indicator	Digitales Dickenmessgerät Digital thickness gauge	Fühlerlehren 20-tlg. 20 pcs. feeler gauge	Universal-Magnetmessstativ Mechanical universal magnetic base
			
Messbereich: 0 - 0,5 x 0,01 mm	Messbereich: 0 - 25 x 0,01 mm	Messbereich: 0,05 - 1,0 mm	Haftkraft: 50 kg
Range: 0 - 0,5 x 0,01 mm	Range: 0 - 25 x 0,01 mm	Blattlänge: 100 mm	Adhesive force: 50 kg
		Range: 0,05 - 1,0 mm	
		Length: 100 mm	
Universal-Magnetmessstativ Hydraulic universal magnetic base	Parallel-Endmaßsatz 47-tlg. Metric gage block set 47 pcs.	Parallel-Endmaßsatz 87-tlg. Metric gage block set 87 pcs.	Mess- und Prüfstiftsatz 41-tlg. Precision steel plug gauge set
			
Mit hydraulischer Klemmung	Genauigkeit nach DIN 861/1	Genauigkeit nach DIN 861/1	DIN 2269, von 1,0 - 5,0 mm
Haftkraft: 50 kg	Inhalt von 1,005 - 100 mm	Inhalt von 1,001 - 100 mm	Stufung: 0,1 mm
With hydraulic clamping	Accuracy according DIN 861/1	Accuracy according DIN 861/1	DIN 2269, from 1,0 - 5,0 mm
Adhesive force: 50 kg	Sizes from 1,005 - 100 mm	Sizes from 1,001 - 100 mm	Graduation: 0,1 mm
Mess- und Prüfstiftsatz 91-tlg. Precision steel plug gauge set	Präzisions-Wasserwaage Master precision level	Präzisions-Rahmenwasserwaage Precision frame bubble	Kantentaster mit Leuchtanzeige Edge finder with indication lamp
			
DIN 2269, von 1,0 - 10,0 mm	Länge: 200 mm	Abmessung: 200 x 200 mm	Mit Aufnahme MK 2
Stufung: 0,1 mm	Genauigkeit: 0,02 mm	Genauigkeit: 0,02 mm	Länge: 160 mm
DIN 2269, from 1,0 - 10,0 mm	Length: 200 mm	Measurement: 200 x 200 mm	With MT 2 taper
Graduation: 0,1 mm	Accuracy: 0,02 mm	Accuracy: 0,02 mm	Length: 160 mm
Kantentaster mit Leuchtanzeige Edge finder with indicator lamps	Härteprüfgerät RW 150 Rockwell hardness tester RW 150	Digitaler Winkelmesser Digital angle finder	Digitale Drehzahlanzeige Digital spindle speed readout
			
SOE 20 L: \varnothing 20 mm / L: 160 mm	Messbereich: HRC 20 - 70	Kostengünstiger Winkelmesser	Passend für KF 20 / Hobby 300 Super /
SOE 20 L: \varnothing 20 mm / L: 160 mm	Rockwell range: HRC 20 - 70	Messbereich: 0° - 90°	Hobby 400 Super
		Cheap angle finder	Suitable for KF 20 / Hobby 300 Super /
		Range: 0° - 90°	Hobby 400 Super







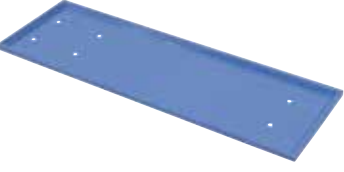


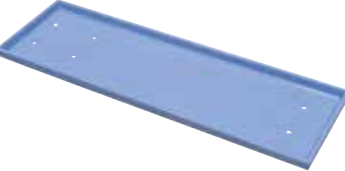
<p>3-Achs-Digitalanzeige DT 40</p> <p>Digital display DT 40</p>  <p>Mit LCD-Anzeige, universell einsetzbar</p> <p>With LCD display, universally usable</p>	<p>3-Achsen Anzeigegerät i200</p> <p>Three axis digital readout system</p>  <p>Mit LCD-Anzeige, universell einsetzbar</p> <p>With LCD display, universally usable</p>	<p>3-Achsen Anzeigegerät ES-12 H</p> <p>Three axis digital readout system</p>  <p>Mit LCD-Anzeige, universell einsetzbar</p> <p>With LCD display, universally usable</p>	<p>3-Achsen Anzeigegerät ES-12 V</p> <p>Three axis digital readout system</p>  <p>Mit LCD-Anzeige, universell einsetzbar</p> <p>With LCD display, universally usable</p>
<p>Längenmesssystem BB-10</p> <p>Linear measuring system BB-10</p>  <p>Messlängen von 100 - 500 mm</p> <p>Measuring lengths from 100 - 500 mm</p>	<p>Längenmesssystem BB-20</p> <p>Linear measuring system BB-20</p>  <p>Messlängen von 100 - 500 mm</p> <p>Measuring lengths from 100 - 500 mm</p>	<p>Längenmesssystem BB-30</p> <p>Linear measuring system BB-30</p>  <p>Messlängen von 550 - 1000 mm</p> <p>Measuring lengths from 550 - 1100 mm</p>	<p>Längenmesssystem BB-40</p> <p>Linear measuring system BB-40</p>  <p>Messlängen von 1100 - 3000 mm</p> <p>Measuring lengths from 1100 - 3000 mm</p>
<p>Zentrierbohrer 10-tlg.</p> <p>HSS center drill, 10 pcs.</p>  <p>je 1 Stk. 0,75 / 1,0 / 1,5 / 1,6 / 2,0 / 2,5 / 3,0 / 3,15 / 4,0 / 5,0 mm</p> <p>each 1 pc. 0,75 / 1,0 / 1,5 / 1,6 / 2,0 / 2,5 / 3,0 / 3,15 / 4,0 / 5,0 mm</p>	<p>Zentrierbohrer 12-tlg.</p> <p>12 pcs. set metric size center drills</p>  <p>je 1 Stk. 1 x 3,15 / 1,6 x 4 / 5 x 12,5 mm</p> <p>je 2 Stk. 2 x 5 / 2,5 x 6 / 3,4 x 10 mm</p> <p>je 3 Stk. 3,15 x 8 mm</p>	<p>Drehmeißelsatz 8 mm, 11-tlg.</p> <p>Carbide tipped tool set 8 mm</p>  <p>Mit Hartmetall-Platten</p> <p>Schaft: 8 mm,</p> <p>With carbide tips</p> <p>Shaft: 8 mm</p>	<p>Drehmeißelsatz 12 mm, 8-tlg.</p> <p>Carbide tipped tool set 12 mm</p>  <p>Mit Hartmetall-Platten</p> <p>Schaft: 12 mm,</p> <p>With carbide tips</p> <p>Shaft: 12 mm</p>
<p>Drehmeißelsatz 38-tlg.</p> <p>Carbide tipped tool set 38 pcs.</p>  <p>Mit Hartmetall-Platten</p> <p>Schaft: 10 / 12 mm</p> <p>With carbide tips</p> <p>Shaft: 10 / 12 mm</p>	<p>Drehmeißelsatz mit HM-Wendeplatten</p> <p>Indexable carbide turning tool set</p>  <p>5-tlg., in Alukassette</p> <p>Schaft: 8 / 10 / 12 / 16 / 20 mm</p> <p>5 pcs. / set in alu case</p> <p>Shaft: 8 / 10 / 12 / 16 / 20 mm</p>	<p>HSS Drehmeißelsatz</p> <p>HSS turning tool set</p>  <p>8-tlg., in Holzkassette</p> <p>Schaft: 10 / 12 / 16 mm</p> <p>8 pcs. / set, in wooden case</p> <p>Shaft: 10 / 12 / 16 mm</p>	<p>Drehmeißelsatz mit HM-Wendeplatten</p> <p>Multipurpose turning tool set</p>  <p>4-tlg., inkl. Bohrstange, TiN-beschichtet</p> <p>Schaft: 10 / 12 / 16 mm</p> <p>4 pcs., with boring bar, TiN-coated</p> <p>Shaft: 10 / 12 / 16 mm</p>

<p>Drehmeißelsatz mit HM-Wendeplatten</p> <p>Multipurpose turning tool set</p>  <p>6-tlg., inkl. Bohrstange, TiN-beschichtet Schaft: 8 / 10 / 12 / 16 / 20 mm 6 pcs., with boring bar, TiN-coated Shaft: 8 / 10 / 12 / 16 / 20 mm</p>	<p>Drehmeißelsatz mit HM-Wendeplatten</p> <p>Multipurpose turning tool set</p>  <p>7-tlg., TiN-beschichtet Schaft: 8 / 10 / 12 mm 7 pcs., TiN-coated Shaft: 8 / 10 / 12 mm</p>	<p>Drehmeißelsatz mit HM-Wendeplatten</p> <p>Multipurpose turning tool set</p>  <p>7-tlg., TiN-beschichtet Schaft: 16 / 20 7 pcs., TiN-coated Shaft: 16 / 20 mm</p>	<p>Drehmeißelsatz mit HM-Wendeplatten</p> <p>Multipurpose turning tool set</p>  <p>9-tlg., in Holzkassette Schaft: 10 / 12 mm 9 pcs., in wooden case Shaft: 10 / 12 mm</p>
<p>Drehmeißelsatz zum Gewindeschneiden</p> <p>Multipurpose turning tool set</p>  <p>für Innen- und Außengewinde Schaft: 16 / 20 / 25 mm for internal and external thread Shaft: 16 / 20 / 25 mm</p>	<p>Drehmeißelsatz zum Einstechen</p> <p>Multipurpose turning tool set</p>  <p>zum Einstechen (innen / außen) Schaft: 16 / 20 / 25 mm for internal & external parting and grooving Shaft: 16 / 20 / 25 mm</p>	<p>Bohrstangen-Set, 3-tlg.</p> <p>Boring bar set, 3 pcs.</p>  <p>3-tlg. Set Schaft: 8 / 10 / 12 mm 3 pcs. set Shaft: 8 / 10 / 12 mm</p>	<p>Bohrstangen-Set 4-tlg.</p> <p>4 pcs. boring bar set</p>  <p>4-tlg. Set Schaft: 10 / 12 / 16 / 20 mm 4 pcs. set Shaft: 10 / 12 / 16 / 20 mm</p>
<p>Rändelwerkzeug, starr</p> <p>Knurling holder</p>  <p>Schaftgröße: 12,7 x 12,7 x 112 mm Zum Einspannen in Drehmaschinen Shaft size: 12,7 x 12,7 x 112 mm For use on lathes</p>	<p>Rändelzange 20 bzw. 56</p> <p>Adjusting knurling holder</p>  <p>Öffnungsweite: 5 - 20 mm bzw. 1,6 - 56 mm Working capacity: 5 - 20 mm or 1,6 - 56 mm</p>	<p>Rändelzange 25</p> <p>Adjusting knurling holder</p>  <p>Mit Schwenk- und einstellbarem Tragarm Öffnungsweite: 3 - 25 mm With tilting and adjustable arm Working capacity: 3 - 25 mm</p>	<p>Rändelwerkzeug, drehbar</p> <p>Knurling holder, rotatable</p>  <p>Schaftgröße: 8 x 19 x 125 mm 3 Rändelpaare Shaft size: 8 x 19 x 125 mm 3 pairs of knurls</p>
<p>Universal-Kühlmitteleinrichtung</p> <p>Universal coolant pump</p>  <p>Mit Plastikbehälter (10 l) und flexiblem Schlauch, 230 V / 400 V With plastic tank (10 l) and flexible tube 230 V / 400 V</p>	<p>Universal-Kühlmitteleinrichtung</p> <p>Universal coolant pump</p>  <p>Kompl. mit Behälter (12 l) und flexiblem Schlauch, 230 V / 400 V Compl. with tank (12 l) and flexible tube 230 V / 400 V</p>	<p>Kühlmittelschlauch-Set 1/4"</p> <p>Coolant hose set</p>  <p>28-tlg., Anschluss 1/4" 28-pcs., connection 1/4"</p>	<p>Kühlmittelschlauch-Set 1/2"</p> <p>Coolant hose set</p>  <p>25-tlg., Anschluss 1/2" 25-pcs., connection 1/2"</p>

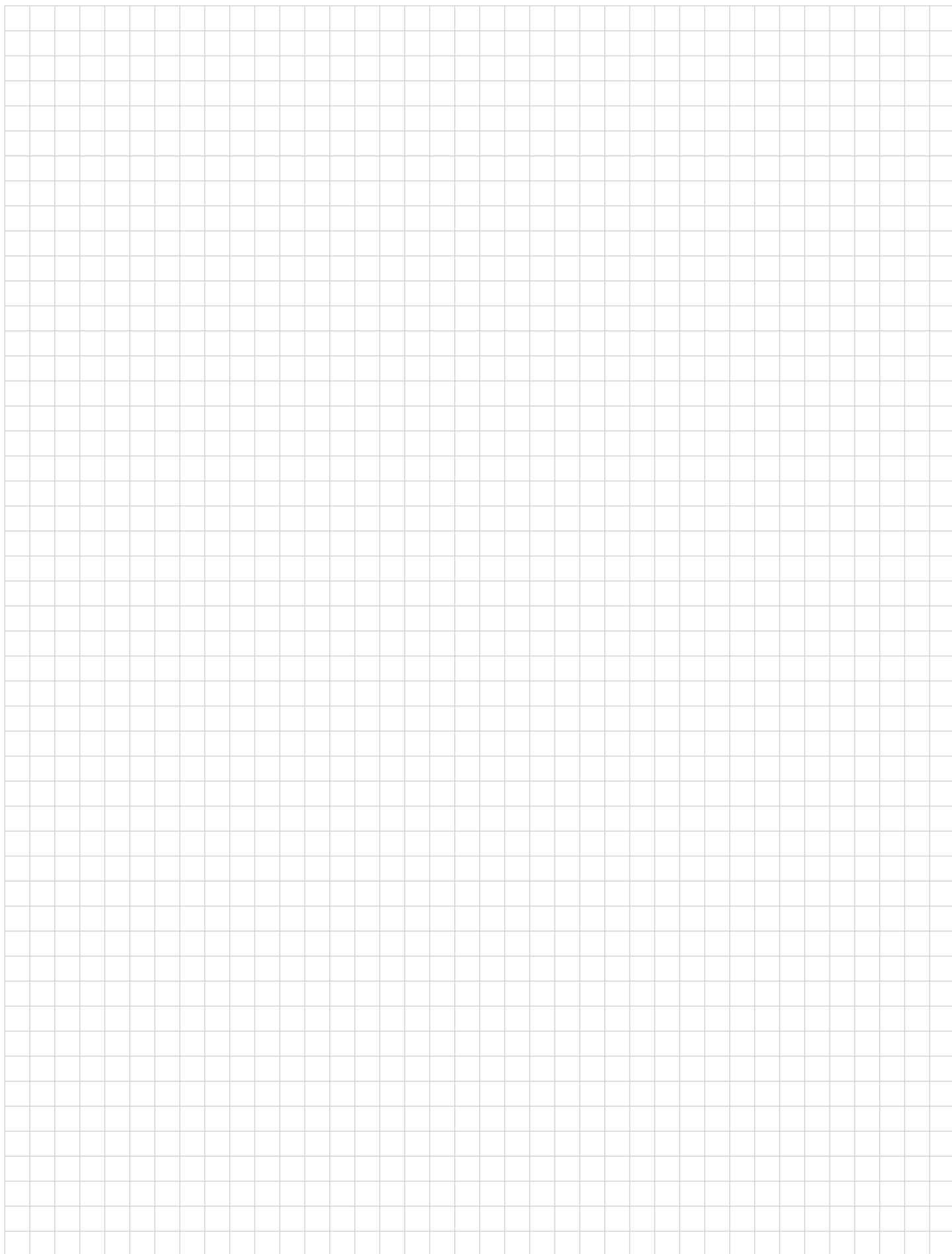
Kühlmittelschlauch CH2	Universal-Kühlmittelkonzentrat	Maschinenschuh MS 80	Maschinenschuhe NE 80 / 120 / 160
Coolant hose CH2	Universal coolant fluid	Machine mount MS 80	Machine mounts NE 80 / 120 / 160
			
mit Magnetfuß	MN 1103, im 5 Liter Kanister	Belastbarkeit: 500 kg	Belastbarkeit: 500 / 800 / 1000 kg
with magnetic base	MN 1103, 5 l canister	Durchmesser 80 mm	Durchmesser: 80 / 120 / 160 mm
		Capacity: 500 kg	Capacity: 500 / 800 / 1000 kg
		Diameter 80 mm	Diameter: 80 / 120 / 160 mm
Maschinenleuchte LED 1	Maschinenleuchte LED 2	Maschinenleuchte LED 3	Maschinenleuchte LED 3-130
LED lamp 1	LED lamp 2	LED lamp 3	LED lamp 3-130
			
Spannung: 230 V	Spannung: 24 V	Spannung: 24 V, Durchmesser wahlweise	Spannung: 230 V
Mit flexiblem Arm und Magnet	Mit flexiblen Arm	90 oder 130 mm	Mit Trafo
Voltage: 230 V	Voltage: 24 V	Voltage: 24 V, diameter optionally	Voltage: 230 V
With flexible arm and magnet	With flexible arm	90 or 130 mm	With transformer
LED-Arbeitsleuchte 4	LED-Arbeitsleuchte 4	Vergrößerungsleuchte	Magnetisches Spanabhebegerät
LED lamp 4	LED lamp 4	Magnifier lamp	Magnetic chip collector
			
Spannung: 24 V	Spannung: 230 V	Spannung: 230 V / 22 W	Für leichtes Entfernen von Spänen
Voltage: 24 V	Mit Trafo	Voltage: 230 V / 22 W	For easy removal of chips
	Voltage: 230 V		
	With transformer		

Schutzeinrichtung PTO 01	Schutzeinrichtung PTO 02	Schutzeinrichtung PTO 03	Schutzeinrichtung PTO 04
Safety guard PTO 01	Safety guard PTO 02	Safety guard PTO 03	Safety guard PTO 04
			
Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request
Schutzeinrichtung PTO 021	Schutzeinrichtung PTO 22	Verschieb. Schutzeinrichtung PTO 20	Schutzeinrichtung PTO 12
Safety guard PTO 021	Safety guard PTO 22	Sliding safety guard PTO 20	Safety guard PTO 12
			
Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request
Schutzeinrichtung PTO 10	Rückwand PTO 31	Leit- und Zugspindelschutz PAT 01	Sicherheitshebel PLT 02
Safety guard PTO 10	Rear safety guard PTO 31	Roll-up safety guard PAT 01	Safety lever PLT 02
			
Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Geeignet für Drehmaschinen Verschiedene Größen auf Anfrage Useable for turning lathes Different sizes on request	Universeller Sicherheits-Schalthebel für die Drehrichtung der Hauptspindel Double-movement universal device, for the insertion of chuck rotation

<p>Untergestell f. Hobby / Proficenter 250</p>	<p>Untergestell D1</p>	<p>Untergestell D1 Deluxe</p>	<p>Untergestell f. Profi 400 V / 400 G</p>
<p>Stand f. Hobby / Proficenter 250</p>	<p>Stand D1</p>	<p>Stand D1 Deluxe</p>	<p>Stand f. Profi 400 V / Profi 400 G</p>
			
<p>Für Drehmaschinen Hobby 250 / Proficenter 250 For turning lathes Hobby 250 / Proficenter 250</p>	<p>Für Drehmaschinen For turning lathes Hobby 300 VD / 300 Super / 350 VD / 350 VDM / Profi 300 V</p>	<p>Für Drehmaschine Profi 300 V For turning lathe Profi 300 V</p>	<p>Für Drehmaschinen Profi 400 V / Profi 400 G For turning lathes Profi 400 V / Profi 400 G</p>
<p>Untergestell Deluxe f. Profi 400 V / G</p>	<p>Untergestell f. Profi 450 S / S Vario</p>	<p>Untergestell D3</p>	<p>Untergestell D3 Deluxe</p>
<p>Stand Deluxe f. Profi 400 V / G</p>	<p>Stand f. Profi 450 S / S Vario</p>	<p>Stand D3</p>	<p>Stand D3 Deluxe</p>
			
<p>Für Drehmaschinen Profi 400 V / Profi 400 G For turning lathes Profi 400 V / Profi 400 G</p>	<p>Für Drehmaschinen Profi 450 S / Profi 450 S Vario For turning lathes Profi 450 S / Profi 450 S Vario</p>	<p>Für Drehmaschinen / For turning lathes Hobby 500 / Profi 550 WQ / Profi 550 WQV Profi 550 LZ / Profi 550 Top / Profi 550 Pro Proficenter 550 WQV</p>	<p>Für Drehmaschinen / For turning lathes Hobby 500 / Profi 550 WQ / Profi 550 WQV Profi 550 LZ / Profi 550 Top / Profi 550 Pro Proficenter 550 WQV</p>
<p>Untergestell D4 Deluxe</p>	<p>Untergestell Deluxe</p>	<p>Untergestell D6</p>	<p>Untergestell D6 Deluxe</p>
<p>Stand D4 Deluxe</p>	<p>Stand Deluxe</p>	<p>Stand D6</p>	<p>Stand D6 Deluxe</p>
			
<p>Für Drehmaschinen / For turning lathes Hobby 500 / Profi 550 WQ / Profi 550 WQV Profi 550 LZ / Profi 550 Top / Profi 550 Pro Proficenter 550 WQV</p>	<p>Für Drehmaschinen Profi 650 G / Proficenter 650 G For turning lathes Profi 650 G / Proficenter 650 G</p>	<p>Für Drehmaschinen / For turning lathes Profi 700 BQV / Profi 700 Top / Profi 700 Pro Proficenter 700 BQV / Proficenter 700 Top</p>	<p>Für Drehmaschinen / For turning lathes Profi 700 BQV / Profi 700 Top / Profi 700 Pro Proficenter 700 BQV / Proficenter 700 Top</p>
<p>Untergestell D8 Deluxe</p>	<p>Untergestell D10 Deluxe</p>	<p>Untergestell f. Profi 750 LZ</p>	<p>Untergestell D13 Deluxe</p>
<p>Stand D8 Deluxe</p>	<p>Stand D10 Deluxe</p>	<p>Stand f. Profi 750 LZ</p>	<p>Stand D13 Deluxe</p>
			
<p>Für Drehmaschinen / For turning lathes Profi 700 BQV / Profi 700 Top / Profi 700 Pro Proficenter 700 BQV / Proficenter 700 Top</p>	<p>Für Drehmaschinen / For turning lathes Profi 700 BQV / Profi 700 Top / Profi 700 Pro Proficenter 700 BQV / Proficenter 700 Top</p>	<p>Für Drehmaschine Profi 750 LZ For turning lathe Profi 750 LZ</p>	<p>Für Drehmaschine Profi 750 Vario For turning lathe Profi 750 Vario</p>

Untergestell D14 Deluxe	Untergestell D12 Deluxe	Spänewanne für D1 / D1 Deluxe	Spänewanne für Profi 400 V / 400 G
Stand D14 Deluxe	Stand D12 Deluxe	Chip tray for D1 / D1 Deluxe	Chip tray for Profi 400 V / 400 G
			
Für Drehmaschine Profi 750 Vario For turning lathe Profi 750 Vario	Für Drehmaschinen For turning lathes Profi 880 G Vario / Proficenter 880 G Vario Profi 900 Vario / Proficenter 900 Vario	Für Untergestell D1 / D1 Deluxe For stand D1 / D1 Deluxe	Für Untergestell Profi 400 V / 400 G / Untergestell Deluxe Profi 400 V / 400 G Für stand Profi 400 V / 400 G / Stand Deluxe für Profi 400 V / 400 G
Spänewanne für Profi 450 S / S Vario	Spänewanne für D3 / D3 Deluxe	Spänewanne für D6 / D6 Deluxe	Spänewanne für Profi(center) 650 G
Chip tray for Profi 400 S / S Vario	Chip tray for D3 / D3 Deluxe	Chip tray for D6 / D6 Deluxe	Chip tray for Profi(center) 650 G
			
Für Untergestell Profi 450 S / 450 S Vario Für stand Profi 450 S 7 450 S Vario	Für Untergestell D3 / D3 Deluxe For stand D3 / D3 Deluxe	Für Untergestell D6 / D6 Deluxe For stand D6 / D6 Deluxe	Für Untergestell Profi 650 G / Proficenter 650 G For stand Profi 650 G / Proficenter 650 G
Spänewanne für Profi 750 LZ	Spänewanne für D13 Deluxe		
Chip tray for Profi 750 LZ	Chip tray for D13 Deluxe		
			
Für Untergestell Profi 750 LZ For stand Profi 750 LZ	Für Untergestell D13 Deluxe For stand D13 Deluxe		

notes



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PWA Handelsges.m.b.H.
4020 Linz | Nebingerstraße 7a | Austria
phone: +43.732.66 40 15 | fax: +43.732.66 40 15-9
e-mail: bernardo@pwa.at | www.bernardo.at