

# **BERNARDO**®

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## **TAPPING MACHINES**



TM 12 P / R 1000  
TM 16 P / R 1000  
TM 24 P / R 1000  
TM 12 P / R 1500  
TM 16 P / R 1500  
TM 24 P / R 1500

TM 10 BLO / R 1100  
TM 12 BLO / R 1100  
TM 16 BLO / R 1100  
TM 10 BLO / R 1500  
TM 12 BLO / R 1500  
TM 16 BLO / R 1500  
TM 24 BLO / R 1200  
TM 30 BLO / R 1200  
TM 36 BLO / R 1200  
TM 24 BLO / R 1700  
TM 30 BLO / R 1700  
TM 36 BLO / R 1700

# Pneumatic tapping machines

# TM-P Serie

- High productivity, significant time savings compared to manual tapping
- Higher accuracy compared to manual tapping, thread is guaranteed right angle (90 °)
- Including swivel arm with large radius for easy positioning of the tap drill on the workpiece
- Tilttable motor unit for tapping at any required angle between 0° and 90°
- Highly economical due to low investment and maintenance costs
- Includes quick change chuck for use of taps for through and blind holes
- For tapping in steel, stainless steel, aluminum and non-ferrous metals
- Quick-change chuck with integrated safety clutch prevents breakage of the tap drill
- Optionally available magnetic base for direct use on large and heavy workpieces



Tilttable motor unit for tapping in horizontal, vertical and diagonal direction.



Maintenance unit with pressure regulator



Space-saving storage of the quick change chucks directly on the machine body (TM 12 P / TM 16 P).

Motor unit 0° to 90° tiltable



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Technical data	TM 12 P / R 1000	TM 16 P / R 1000	TM 24 P / R 1100
Tap holes*	M3 - M12	M3 - M16	M5 - M24
Spindle taper	GT 12	GT 12	GT 24
Speed	400 rpm	400 rpm	400 rpm
Adjustable angle	0° - 90°	0° - 90°	0° - 90°
Max. working radius	R 1000 mm	R 1000 mm	R 1100 mm
Air pressure	6 - 8 bar	6 - 8 bar	6 - 8 bar
Quick change chuck	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12 / M14 / M16	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24
Weight approx.	20 kg	22 kg	30 kg
Art. no.	01-1411	01-1414	01-1415

\* Material strength 400 N/mm<sup>2</sup>

# Pneumatic tapping machines

# TM-P Serie



Optionally available magnetic base for direct use on large and heavy workpieces.



Including swivel unit for horizontal or inclined cutting.

Motor unit 0° to 90° tiltable



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**Best Price**

### Standard accessories:

- Quick release tool holder
- Quick change chuck according DIN
- Pressure reduction valve and moisture separators
- Pneumatic motor
- 90° angle adjustment
- Mounting flange

### Optional accessories:

	Art. No.	excl. VAT
Magnetic base (TM 12 P / TM 16 P)	01-1436	
Magnetic base (TM 24 P)	01-1437	
Stand 900 x 600 mm	01-1438	
Stand 900 x 600 mm with 2 drawers	01-14390	
Quick change drill chuck adapter GT12 - B16	01-14404	
Quick change drill chuck adapter GT24 - B16	01-14405	
Direct positioner 90°, GT12	01-1443	
Direct positioner 90°, GT24	01-1444	
High-performance cutting oil BDS 5000 / 1 ltr.	54-1208	
High-performance lubrication spray BDS 5200 / 400 ml	54-1210	
Quick change chuck see page 8		
HSSE-Cobalt screw tap see page 10		
External threading die holder HSS, GT12, M3 - M14 see page 10		

### Technical data

	TM 12 P / R 1500	TM 16 P / R 1500	TM 24 P / R 1500
Tap holes*	M3 - M12	M3 - M16	M5 - M24
Spindle taper	GT 12	GT 12	GT 24
Speed	400 rpm	400 rpm	400 rpm
Adjustable angle	0° - 90°	0° - 90°	0° - 90°
Max. working radius	R 1500 mm	R 1500 mm	R 1500 mm
Air pressure	6 - 8 bar	6 - 8 bar	6 - 8 bar
Quick change chuck	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12 / M14 / M16	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24
Weight approx.	21 kg	23 kg	31 kg
Art. no.	01-14110	01-14140	01-14150

\* Material strength 400 N/mm<sup>2</sup>

# Electric tapping machines

# TM-BLO Serie

- Standard with micro-spray system for constant cooling and minimal coolant usage
- Including blow-out device for removing the chips, thus optimal view of the drill hole
- Includes quick change chuck for use of taps for through and blind holes
- Tilttable motor unit for tapping at any required angle between 0° and 90°
- Higher accuracy compared to manual tapping, thread is guaranteed right angle (90 °)
- High productivity, significant time savings compared to manual tapping
- Quick-change chuck with integrated safety clutch prevents breakage of the tap drill
- Including swivel arm with large radius for easy positioning of the tap drill on the workpiece
- For tapping in steel, stainless steel, aluminum and non-ferrous metals



Micro-spray system and blow-out device comes standard



Comfortable work: adjustment of the thread size, pitch, speed and drill depth directly over the integrated touchscreen.



Motor unit 0° to 90° tiltable

**NEW**

Including  
blow-out device

**Best  
Price**

Serially with  
micro-spray system

#### Standard accessories:

- Operation via touchscreen
- Digital drill depth indication
- Micro-spray system
- Blow-out device
- Quick release tool holder
- Quick change chuck according DIN
- Electric motor
- 90° angle adjustment
- Mounting flange

Technical data	TM 10 BLO / R 1100	TM 12 BLO / R 1100	TM 16 BLO / R 1100
Tap holes*	M3 - M10	M3 - M12	M3 - M16
Spindle taper	GT 12	GT 12	GT 12
Speed max.	200 - 1000 rpm	150 - 600 rpm	120 - 325 rpm
Adjustable angle	0° - 90°	0° - 90°	0° - 90°
Max. working radius	R 1100 mm	R 1100 mm	R 1100 mm
Quick change chuck	DIN 371: M3 / M4 / M5-6 / M8 / M10	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12 / M14 / M16
Motor power	600 W	600 W	600 W
Voltage	230 V	230 V	230 V
Weight approx.	21 kg	22 kg	23 kg
Art. no.	01-14161	01-14171	01-14183

\* Material strength 400 N/mm<sup>2</sup>



# Electric tapping machines

# TM-BLO Serie



Optionally available magnetic base for direct use on large and heavy workpieces.



Including swivel unit for horizontal or inclined cutting.

**NEW**

Motor unit 0° to 90° tiltable



Serially with quick change chuck according DIN.

Serially with micro-spray system



**Optional accessories:**

	Art. No.	excl. VAT
Magnetic base	01-1436	
Stand 900 x 600 mm	01-1438	
Stand 900 x 600 mm with 2 drawers	01-14390	
Quick change drill chuck adapter GT12 - B16	01-14404	
Direct positioner 90°, GT12	01-1443	
High-performance cutting oil BDS 5000 / 1 ltr.	54-1208	
High-performance lubrication spray BDS 5200 / 400 ml	54-1210	
Quick change chuck see page 8		
HSSE-Cobalt screw tap see page 10		
External threading die holder HSS, GT12, M3 - M14 see page 10		



Including blow-out device

Technical data	TM 10 BLO / R 1500	TM 12 BLO / R 1500	TM 16 BLO / R 1500
Tap holes*	M3 - M10	M3 - M12	M3 - M16
Spindle taper	GT 12	GT 12	GT 12
Speed max.	200 - 1000 rpm	150 - 600 rpm	120 - 325 rpm
Adjustable angle	0° - 90°	0° - 90°	0° - 90°
Max. working radius	R 1500 mm	R 1500 mm	R 1500 mm
Quick change chuck	DIN 371: M3 / M4 / M5-6 / M8 / M10	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12	DIN 371: M3 / M4 / M5-6 / M8 / M10 DIN 376: M12 / M14 / M16
Motor power	600 W	600 W	600 W
Voltage	230 V	230 V	230 V
Weight approx.	28 kg	29 kg	30 kg
Art. no.	01-14162	01-14172	01-14184

\* Material strength 400 N/mm<sup>2</sup>

# Electric tapping machines

## TM-BLO Serie

- Standard with micro-spray system for constant cooling and minimal coolant usage
- Including blow-out device for removing the chips, thus optimal view of the drill hole
- Includes quick change chuck for use of taps for through and blind holes
- Tiltable motor unit for tapping at any required angle between 0° and 90°
- Higher accuracy compared to manual tapping, thread is guaranteed right angle (90 °)
- High productivity, significant time savings compared to manual tapping
- Quick-change chuck with integrated safety clutch prevents breakage of the tap drill
- Including swivel arm with large radius for easy positioning of the tap drill on the workpiece
- For tapping in steel, stainless steel, aluminum and non-ferrous metals



Micro-spray system and blow-out device comes standard



Comfortable work: adjustment of the thread size, pitch, speed and drill depth directly over the integrated touchscreen.



Including  
blow-out device

**NEW**

Serially with  
micro-spray system

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### Standard accessories:

- Operation via touchscreen
- Digital drill depth indication
- Micro-spray system
- Blow-out device
- Quick release tool holder
- Quick change chuck according DIN
- Electric motor
- 90° angle adjustment
- Mounting flange

Technical data	TM 24 BLO / R 1200	TM 30 BLO / R 1200	TM 36 BLO / R 1200
Tap holes*	M5 - M24	M5 - M30	M5 - M36
Spindle taper	GT 24	GT 24	GT 24
Speed max.	70 - 200 rpm	30 - 200 rpm	30 - 150 rpm
Adjustable angle	0° - 90°	0° - 90°	0° - 90°
Max. working radius	R 1200 mm	R 1200 mm	R 1200 mm
Quick change chuck	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24 / M27 / M30	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24 / M27 / M30 M33 / M36
Motor power	1200 W	1200 W	1200 W
Voltage	230 V	230 V	230 V
Weight approx.	34 kg	35 kg	35 kg
Art. no.	01-14191	01-14211	01-14222

\* Material strength 400 N/mm<sup>2</sup>

# Electric tapping machines

# TM-BLO Serie



Optionally available magnetic base for direct use on large and heavy workpieces.



Including swivel unit for horizontal or inclined cutting.



Serially with quick change chuck according DIN.



Including blow-out device

**NEW**

Serially with micro-spray system

### Optional accessories:

	Art. No.	excl. VAT
Magnetic base	01-1437	
Stand 900 x 600 mm	01-1438	
Stand 900 x 600 mm with 2 drawers	01-14390	
Adapter AD, GT24 - GT12	01-1440	
Quick change drill chuck adapter GT24 - B16	01-14405	
Direct positioner 90°, GT12	01-1443	
Direct positioner 90°, GT24	01-1444	
High-performance cutting oil BDS 5000 / 1 ltr.	54-1208	
High-performance lubrication spray BDS 5200 / 400 ml	54-1210	
Quick change chuck see page 12		
HSSE-Cobalt screw tap see page 14		
External threading die holder HSS, GT12, M3 - M14 see page 14		
External threading die holder HSS, GT24, M3 - M24 see page 14		

### Technical data

	TM 24 BLO / R 1700	TM 30 BLO / R 1700	TM 36 BLO / R 1700
Tap holes*	M5 - M24	M5 - M30	M5 - M36
Spindle taper	GT 24	GT 24	GT 24
Speed max.	70 - 200 rpm	30 - 200 rpm	30 - 150 rpm
Adjustable angle	0° - 90°	0° - 90°	0° - 90°
Max. working radius	R 1700 mm	R 1700 mm	R 1700 mm
Quick change chuck	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24 / M27 / M30	DIN 376: M5-6 / M8 / M10 / M12 / M14 M16 / M18 / M20 / M22-24 / M27 / M30 M33 / M36
Motor power	1200 W	1200 W	1200 W
Voltage	230 V	230 V	230 V
Weight approx.	50 kg	51 kg	51 kg
Art. no.	01-14192	01-14212	01-14223

\* Material strength 400 N/mm<sup>2</sup>

# Accessories tapping machines

## Quick change chuck



- According to DIN 371 or DIN 376
- Quick change chuck up to M24 including safety clutch
- For use of taps for through and blind holes
- Quick and easy changing of the taps without tools
- Tapping chuck with adjustable safety overload clutch as standard
- Maintenance-free execution

Art.no.	Description	TM 10	TM 12	TM 16	TM 24	TM 30	TM 36	excl. VAT
01-1446	Quick change chuck 19 mm GT 12, DIN 371, M3 (3,5 x 2,7)	•	•	•				
01-14460	Quick change chuck 19 mm GT 12, DIN 371, M4 (4,5 x 3,4)	•	•	•				
01-14461	Quick change chuck 19 mm GT 12, DIN 371, M5-6 (6 x 4,9)	•	•	•				
01-14462	Quick change chuck 31 mm GT 24, DIN 371, M5-6 (6,4 x 4,9)				•	•	•	
01-14463	Quick change chuck 19 mm GT 12, DIN 371, M8 (8 x 6,2)	•	•	•				
01-14464	Quick change chuck 31 mm GT 24, DIN 376, M8 (6 x 4,9)				•	•	•	
01-14465	Quick change chuck 19 mm GT 12, DIN 371, M10 (10 x 8)	•	•	•				
01-14466	Quick change chuck 31 mm GT 24, DIN 376, M10 (7 x 5,5)				•	•	•	
01-14467	Quick change chuck 19 mm GT 12, DIN 376, M12 (9 x 7)		•	•				
01-14468	Quick change chuck 31 mm GT 24, DIN 376, M12 (9 x 7)				•	•	•	
01-14469	Quick change chuck 19 mm GT 12, DIN 376, M14 (11 x 9)			•				
01-1447	Quick change chuck 31 mm GT 24, DIN 376, M14 (11 x 9)				•	•	•	
01-14470	Quick change chuck 19 mm GT 12, DIN 376, M16 (12 x 9)			•				
01-14471	Quick change chuck 31 mm GT 24, DIN 376, M16 (12 x 9)				•	•	•	
01-14472	Quick change chuck 31 mm GT 24, DIN 376, M18 (14 x 11)				•	•	•	
01-14473	Quick change chuck 31 mm GT 24, DIN 376, M20 (16 x 12)				•	•	•	
01-14474	Quick change chuck 31 mm GT 24, DIN 376, M22-24 (18 x 14,5)				•	•	•	
01-14475	Quick change chuck 31 mm GT 24, DIN 376, M27 (20 x 16)					•	•	
01-14476	Quick change chuck 31 mm GT 24, DIN 376, M30 (22 x 18)					•	•	
01-14477	Quick change chuck 31 mm GT 24, DIN 376, M33 (25 x 20)						•	
01-14478	Quick change chuck 31 mm GT 24, DIN 376, M36 (28 x 22)						•	



# Accessories tapping machines

## Quick change chuck set



- For use of taps for through and blind holes
- Quick and easy changing of the taps without tools
- Tapping chuck with adjustable safety overload clutch as standard
- Maintenance-free execution

Art.no.	Description	excl. VAT
01-1445	Quick change chuck set M3 - M10, GT 12	
01-14450	Quick change chuck set M3 - M12, GT 12	
01-14451	Quick change chuck set M3 - M16, GT 12	
01-14452	Quick change chuck set M6 - M24, GT 12	
01-14453	Quick change chuck set M5-6 - M30, GT 12	
01-14454	Quick change chuck set M6 - M36, GT 12	

## Adapter AD, GT24 - GT12



Art.no.	Description	excl. VAT
01-1440	Adapter AD, GT24 - GT12	

## Direct positioner 90°



With the direct positioner 90°, the thread cutting machine can always be set exactly at right angle to the workpiece.

Art.no.	Description	excl. VAT
01-1443	Direct positioner 90°, GT12	
01-1444	Direct positioner 90°, GT24	

## Quick change drill chuck adapter



The quick change drill chuck adapter allows the installation of a key or keyless drill chuck, which means that the tapping machine can also be used for drilling.

Art.no.	Description	excl. VAT
01-14404	Quick change drill chuck adapter GT12 - B16	
01-14405	Quick change drill chuck adapter GT24 - B16	

# Accessories tapping machines

## HSSE-Cobalt screw tap



Art.no.	Description	excl. VAT	Art.no.	Description	excl. VAT
44-1030	HSSE-Cobalt screw tap M3		44-10308	HSSE-Cobalt screw tap M18	
44-10300	HSSE-Cobalt screw tap M4		44-10309	HSSE-Cobalt screw tap M20	
44-10301	HSSE-Cobalt screw tap M5		44-1031	HSSE-Cobalt screw tap M22	
44-10302	HSSE-Cobalt screw tap M6		44-10310	HSSE-Cobalt screw tap M24	
44-10303	HSSE-Cobalt screw tap M8		44-10311	HSSE-Cobalt screw tap M27	
44-10304	HSSE-Cobalt screw tap M10		44-10312	HSSE-Cobalt screw tap M30	
44-10305	HSSE-Cobalt screw tap M12		44-10313	HSSE-Cobalt screw tap M33	
44-10306	HSSE-Cobalt screw tap M14		44-10314	HSSE-Cobalt screw tap M36	
44-10307	HSSE-Cobalt screw tap M16				

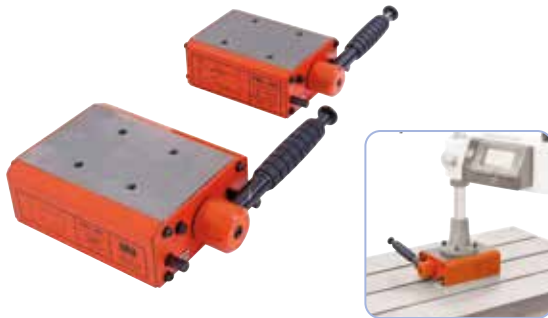
## External threading die holder HSS



Art.no.	Description	excl. VAT
01-1441	External threading die holder HSS, GT12 - M3, M4, M5, M6	
01-14410	External threading die holder HSS, GT12 - M8	
01-14411	External threading die holder HSS, GT12 - M10	
01-14412	External threading die holder HSS, GT12 - M12, M14	
01-14413	External threading die holder HSS, GT12 - M16	
01-1442	External threading die holder HSS, GT24 - M3, M4, M5, M6	
01-14420	External threading die holder HSS, GT24 - M8	
01-14421	External threading die holder HSS, GT24 - M10	
01-14422	External threading die holder HSS, GT24 - M12, M14	
01-14423	External threading die holder HSS, GT24 - M16, M18, M20	
01-14424	External threading die holder HSS, GT24 - M22, M24	

# Accessories tapping machines

## Magnetic base



Optionally available magnetic base for direct use on large and heavy workpieces.

Art.no.	Description	excl. VAT
01-1436	Magnetic base (TM 12 P / 16 P / TM 10 BLO / 12 BLO / 16 BLO)	
01-1437	Magnetic base (TM 24 P / TM 24 BLO / 30 BLO / TM 36 BLO)	

## Stand for TM-series



- Milled support surface 900 x 600 mm
- Including 3 T-slots (16 mm)
- Large storage space and 2 drawers for storing tools
- 4 steering rollers including brakes

Art.no.	Description	excl. VAT
01-14390	Stand 900 x 600 mm with 2 drawers	

## High-performance cutting oil BDS 5000



High-performance cutting oil for medium to heavy machining of metals and plastics.

The excellent coolant and lubrication effect increase the durability of the tools and improve the chip removal, this guarantee a veter cutting result on the machined material.

Art.no.	Description	excl. VAT
54-1208	High-performance cutting oil BDS 5000 / 1 ltr.	
54-1209	High-performance cutting oil BDS 5000 / 5 ltr.	

## High-performance lubrication spray BDS 5200



Application mainly at over head or horizontal work, but also useable for machining at drilling , milling, sawing, thread cutting etc.

Advantage of this lubrication spray is the exact dosing and therefore an optimal lubrication directly at the cutting tool.

Art.no.	Description	excl. VAT
54-1210	High-performance lubrication spray BDS 5200 / 1 x 400 ml can	
54-1211	High-performance lubrication spray BDS 5200 / 6 x 400 ml can	
54-1212	High-performance lubrication spray BDS 5200 / 12 x 400 ml can	

Your dealer

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