



TP2000 Magnetic Tapping & Drilling Machine

A patented, versatile
1100 W magnetic tapping & drilling machine

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Internal & Confidential

AGP TAIWAN

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AGP | TP2000 Magnetic Tapping & Drilling Machine



Introduction

Target group & Applications

TP2000 Introduction

The TP2000 magnetic tapping and drilling machine is primarily a tapping machine, making it unique in the market, and there really isn't anything comparable to it. Competitors' tapping mag drills are simply using the tapping function as an additional feature, and it is not their primary purpose.

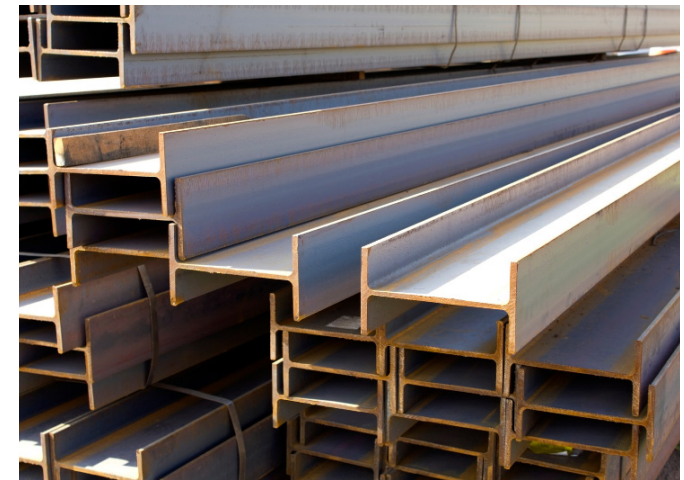
The most unique feature of this machine is its dual mode gearbox, with one mode for tapping and the other mode for standard drilling. The built-in auto-reverse tapping mechanism makes tapping extremely efficient. When its gearbox is in tapping mode, downward force on the crank handle causes high-torque clockwise rotation of the spindle, no force on the handle causes the spindle to stop, and upward force on the crank handle causes anticlockwise rotation (to remove the tap from the hole). When the gearbox is switched from tapping mode to drilling mode, the gear ratio is higher, and the rotation is of course fixed in the clockwise direction.

The special quick-release spindle design, with the provided set of adaptors allows effortless changes from twist drills, to taps, to cutters. A big advantage to this machine is that its spindle directly mounts Bilz number 2 type accessories, which are a common, industry-wide coupling system for tapping. This makes things very convenient, since many operators are already using this system, and a full range of sizes of Bilz number 2 tapping collets are readily available in the market, with some having special features like torque limiting clutches, etc. Of course, the operator can use the provided universal tapping chuck as provided with the machine.

Since its electromagnet can lock the tool in the same position throughout the process, and it can quickly switch between the drilling mode and tapping mode, it allows perfectly centered tapped holes to be quickly and repeatably created.

Target Groups and Applications

For operators in metalworking fields, particularly those who need a portable system for intensive precision tapping, the TP2000 is a game-changing tool. It is the perfect complement to stationary tapping machinery, and it even uses the same coupling system. Its performance quickly creating high-quality tapped holes is unmatched by any other portable machine.



Sales Arguments

Dual Mode Gearbox

Unique gearbox design allows tapping and standard drilling modes in one machine.

Drilling Mode

With the gearbox in drilling mode, spindle spins at higher rpm for twist drills and annular cutters, so it performs just like a standard mag drill.

Tapping Mode

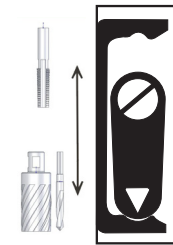
With the gearbox in tapping mode, push crank handle down for low speed clockwise rotation; push handle up for anticlockwise rotation, and with no pressure on the handle, the spindle stops.

Special Quick-Release Coupling System

A full set of adaptors are provided for taps, twist drills, and cutters with Bilz no.2 type coupling.

Universal Tapping Chuck

The universal tapping chuck is adjustable to grip a wide range of tap sizes.



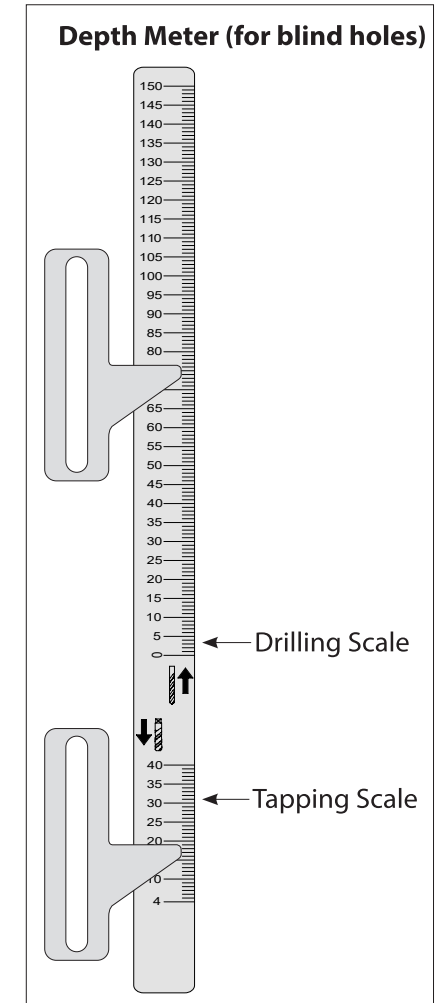
Depth Stop

Adjustable depth stop for tapping blind holes.



Depth Scales

Depth scales for both twist drilling and tapping modes for accurate blind holes.



Technical Specification

Model	TP2000
Power Input	1100 W
Voltage, Frequency	220-240 V~ 50-60 Hz, or 110-120 V~ 50-60 Hz
Tapping Mode: No Load (Rated Load) Speed	150 (90) min ⁻¹ (350 in reverse)
Drilling Mode: No Load (Rated Load) Speed	550 (330) min ⁻¹
Spindle Coupling	31 mm (Bilz no. 2)
Annular Cutter Arbor	Set Screw Type, 19.05 mm (3/4") Weldon Shank
Capacity, Taps: Ø	20 mm (13/16")
Capacity, Cutters: Ø x Depth of Cut	35 mm x 50 mm (1-3/8" x 2")
Capacity, Twist Drills (≤ 1/2" shank): Ø x Depth of Cut	13 mm x 135 mm (1/2" x 5-5/16")
Stroke	158 mm (6-1/4")
Magnetic Adhesion	15,000 N
Weight	14.5 kg (32 lb)

- 1 Quick-Release Coupling
- 2 Depth Lock
- 3 Magnet Switch
- 4 Motor Switch
- 5 Crank Handle
- 6 Coolant Tank
- 7 Coolant Feed Tap
- 8 Depth Scale
- 9 Magnet Base



Offer Content

Standard Accessories

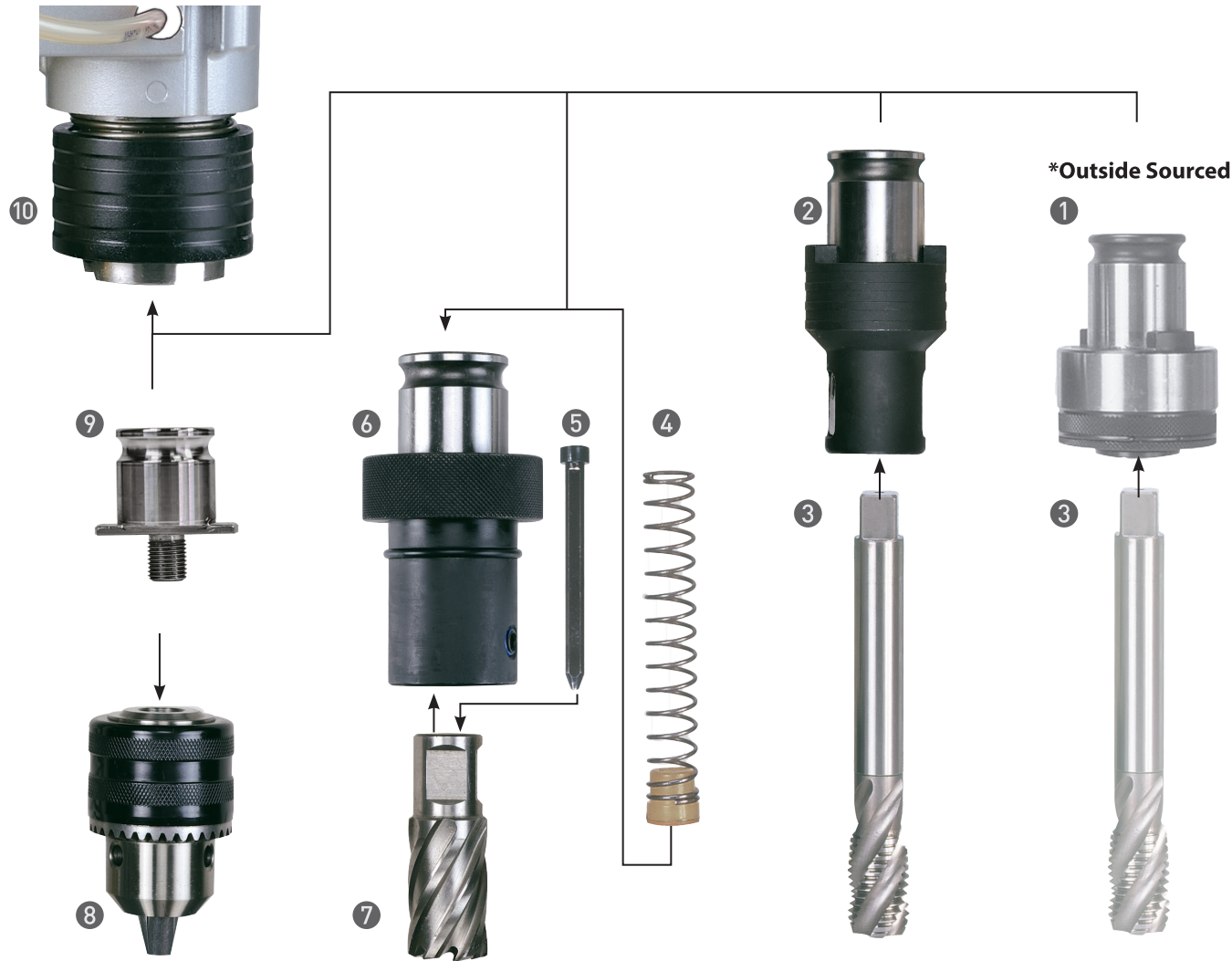
- 1 TP2000 Magnetic Tapping & Drilling Machine
- 2 Coolant Tank Kit
- 3 Wrench M8
- 4 L-Hex Key M4
- 5 L-Hex Key M2.5
- 6 Chip Guard Kit
- 7 Ratchet Strap
- 8 Drill Chuck Adaptor Arbor
- 9 1/2" Chuck and Key
- 10 Annular Cutter Arbor (19.05 mm Weldon)
- 11 Universal Tapping Chuck

Optional Accessories

- 12 Other sizes of no.2 Type Clamp Collets

















Cutting Tools Applications



- ① No.2 Clamp Collet
(Not Included)
- ② Universal Tapping Chuck
- ③ Tap (Not included)
- ④ Coolant Feed Spring And Seal
- ⑤ Pilot Pin (Not included)
- ⑥ Annular Cutter Arbor 3/4"
(19.05mm) Weldon Shank)
- ⑦ Annular Cutter (Not included)
- ⑧ 1/2" Twist Drill Chuck
- ⑨ Drill Chuck Adaptor Arbor
- ⑩ Quick-Release Collar

Comparison Table

Brand							
							
Model	TP2000	KBU 35 QW	KBU 35 MQW (MT2)	KBU 35-2 QW	MAB 485	PB 32 Combi	PB 35 FRV
Power	1 100 W	1 100 W	1 100 W	1 100 W	1 150 W	720 W	960 W
Tapping Capacity Ø	M20 w/ auto reverse	M14	M14	M14	M16	M12	M16
Cutters Capacity Ø	35 mm	35 mm	35 mm	35 mm	40 mm	32 mm	35 mm (HSS) 38 mm (TCT)
Depth of Cut (cutters)	50 mm	50 mm	50 mm	50 mm	50 mm	25 mm (50 mm optional)	50 mm
Twist Drills	13 mm	16 mm (optional)	16 mm (optional)	16 mm (optional)	18 mm (optional)	13 mm	13 mm
RPM-no load (rated load) I	150 (90) (tapping)	130-520 constant speed	130-520 constant speed	130-520 (constant speed)	50 - 250 (constant sp.)	50-550 (30-360)	230-550 (150-360)
RPM-no load (rated load) II	550 (330) (drilling)			400-1600 (constant speed)	100 - 450 (constant sp.)		
Variable Speed	NO	YES	YES	YES	YES	YES	YES
Reversible	YES automatic	YES	YES	YES	YES	YES	YES
Cutter Shank	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon
Quick-Release Arbor	YES Bilz no. 2	YES QuickIN	YES QuickIN	YES QuickIN	YES	NO	NO
Morse Taper Spindle	NO	NO	YES MT2	NO	YES MT2	NO	NO
Adjustable Slide Height	NO	YES	YES	YES	NO	NO	NO
Magnet Indicator	NO	YES	YES	YES	YES	NO	NO
Magnetic Adhesion	15 000 N	10 000 N	10 000 N	10 000 N	10 400 N	10 000 N	10 000 N
Weight	14.5 kg	10.6 kg	10.6 kg	11 kg	13 kg	12.5 kg	13.9 kg
Conclusion	<p>The AGP TP2000, as a dedicated tapping machine, is unique and there really isn't anything comparable to it. The competing tapping mag drills in this comparison are simply using the tapping function as an additional, secondary feature, and it is not their primary purpose. Since this is a tapping machine, its priorities are tapping first, twist drilling second, and annular cutting last. The full set of special adaptors, including the universal tapping chuck, are provided with the tool, so it's very convenient for the operator to immediately start tapping.</p>						

Tool Dimensions

