



SMD351 H & SMD351 L Variable Slide Magnetic Drill

Single speed 1100 W magnetic drilling machine

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Internal & Confidential

AGP TAIWAN

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AGP | SMD351 L/H Variable Slide Magnetic Drill



Introduction

Target group & Applications

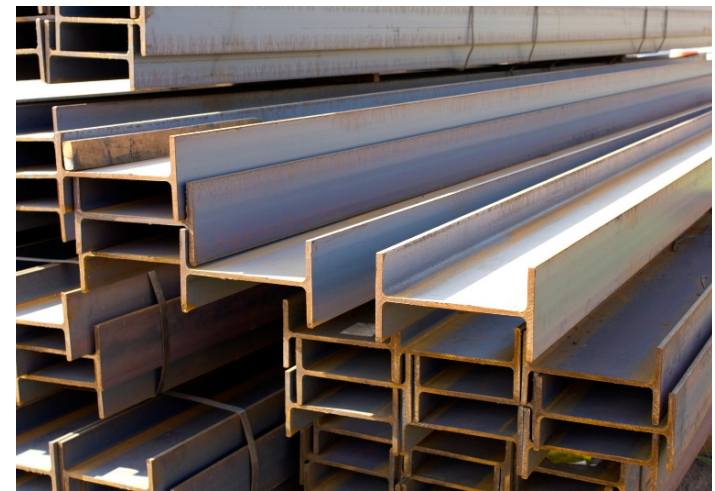
SMD351 L/H Introduction

The SMD351 series is an ideal all-around magnetic drill for drilling in steel with annular cutters up to 35mm (SMD351H) and 42mm (SMD351L). The difference between these two models is in their gear ratios. Generally, the gear ratio of the SMD351H is more optimized for using TCT cutters, while the gearing of the SMD351L is optimized for using HSS cutters. But of course, either machine can mount either type of cutter.

The SMD351 series feature a quick-release spindle, allowing easy cutter changes. Although their primary purpose is drilling with annular cutters, they are also well adapted to using other cutting tools. As annular cutters cannot make holes smaller than about 12mm, a 3-jaw chuck can be easily mounted with the optional quick-release chuck adaptor, allowing twist drills to be used. In addition, other types of cutting tools such as countersinks, counterbores, and reamers can be mounted. Since some cutting tools require a higher starting spindle height, the SMD351 series has a variable slide height feature. This makes the machine very versatile and useful for a wide range of metalworking applications and industries.

Target Groups and Applications

For operators in the metalworking, fabrication, steel frame construction, bridge building industry, or anyone who needs to drill in heavy steel, the SMD351 series is an indispensable tool. Magnetic drills are convenient and portable, making them the perfect complement to a stationary drill press. Their powerful electromagnet can adhere to ferrous steel in any position needed, allowing accurately aligned perpendicular holes to be created. They are especially useful when the steel to be drilled is part of a larger structure which cannot be drilled by stationary equipment. Here their ability to magnetically adhere to the workpiece really saves the day. Since the SMD351 drills are optimized for operating with the most commonly used cutter sizes, they are usually the first-choice tool for most jobs that require a mag drill.



Sales Arguments



Variable Slide Height

Allows 230 mm total travel for mounting a wide range of cutting tools.



Quick-Release Arbor

Tool free cutter changes save time and effort.



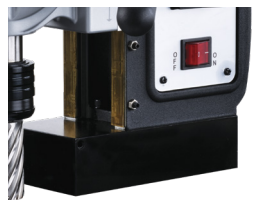
1.1 kW Motor

High-torque motor optimized for steel drilling applications with overload protection.



Integrated Cutting Fluid Feed

Cutting fluid automatically feeds when using annular cutters and can be fine adjusted as needed.



15 kN Electromagnet

Exceptionally powerful and reliable magnet for secure and stable drilling.



Optional Quick-Mounting Chuck

The Weldon shank quick-release chuck adaptor allows quick and easy changes between cutters and chuck modes. This allows a wide range of cutting tools to be used.

Technical Specification

Model	SMD351L	SMD351H
Power Input	1100 W	1100 W
Voltage, Frequency	220-240 V~ 50-60 Hz, or 110-120 V~ 50-60 Hz	
No Load (Rated Load) Speed	450 (270) min ⁻¹	730 (440) min ⁻¹
Max. Capacity	∅ x Depth of Cut of Cutters	42 x 50 mm (1-5/8" x 2")
	∅ Twist Drills	≤ 1/2" shank
	Stroke	140 mm (5-1/2")
Overload Protection	With	
Magnetic Adhesion	15,000 N	
Weight	12.6 kg (27.7 lb)	

- 1 Quick-Release Chuck Adaptor (optional)
- 2 1/2" Chuck (optional)
- 3 Coolant Tank
- 4 Coolant Feed Tap
- 5 Quick-Release Arbor
- 6 Annular Cutter (Not included)
- 7 Pilot Pin (Not included)
- 8 Magnet Base
- 9 Magnet Switch
- 10 Motor Switch
- 11 Crank Handle
- 12 Slide & Slide Height Lock



Offer Content

Standard Accessories

- 1 SMD351 L/H Variable Slide Magnetic Drill
- 2 Wrench M8
- 3 L-Hex Key M4
- 4 L-Hex Key M2.5
- 5 T- Wrench M6
- 6 Ratchet Strap
- 7 Chip Guard Kit

Optional Accessories

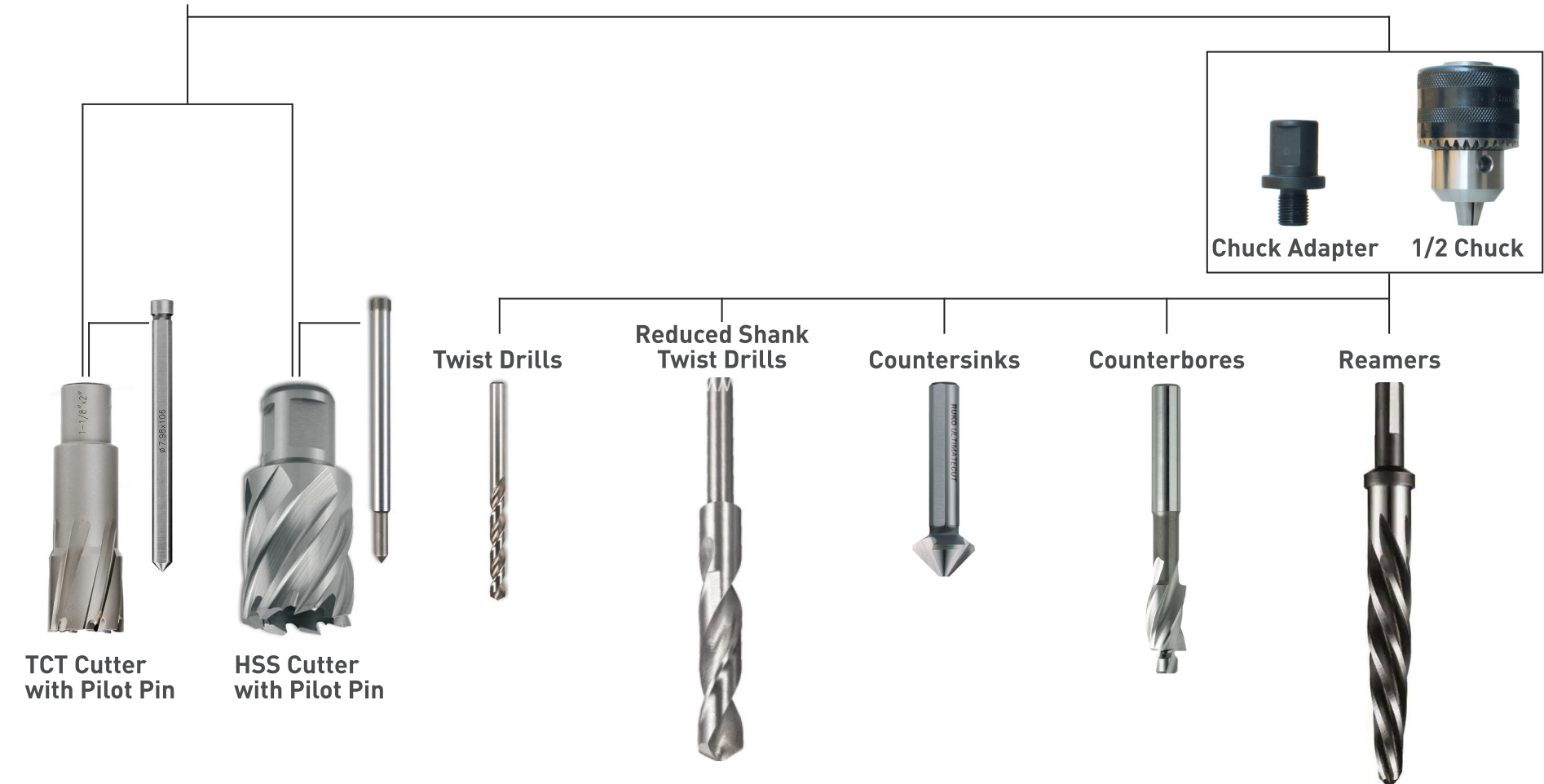
- 8 Quick-Release Chuck Adaptor
- 9 1/2" Chuck & Key



Cutting Tools Applications



Quick-Release Arbor



Comparison Table (SMD351H)

AGP[®]

BDS
MASCHINEN

jein

Rotabronch
The original name for hole cutting systems

EUROBOOR
FOR PROFESSIONALS BY PROFESSIONALS

ALFRA

NITTO
NITTO KOHKI CO.,LTD.

HMT
HOLEMAKER-TECHNOLOGY.COM
Cutting Tool Innovation - Speed Up Manufacturing

metabo
PROFESSIONAL POWER TOOL SOLUTIONS

Brand



Model	SMD351 H	MAB 100 K	KBE 35	Element 30	ECO.32	RB 35 / 50 X	WOJ-3200	V35	MAG 32
Power	1 100 W	1 050 W	850 W	850 W	1 000 W	1 100 W	950 W	850 W	1 000 W
Capacity Ø (Cutters)	35 mm	30 mm	35 mm	32 mm	32 mm	35 mm	32 mm	35 mm	32 mm
Depth of Cut (Cutters)	50 mm	55 mm	50 mm	35 mm	50 mm	50 mm	50 mm	50 mm	50 mm
Stroke	140 mm	70 mm	135 mm	65 mm	150 mm	129 mm	(not listed)	140 mm	147 mm
Twist Drills	13 mm (optional)	NO	13 mm (optional)	13 mm (Chuck std.)	13 mm (optional)	13 mm (optional)	13 mm (optional)	12 mm	13 mm (optional)
Tapping	NO	NO	NO	NO	NO	NO	NO	NO	NO
No Load (Rated Load) Speed	740 (440) /min	(460) /min	620 (460) /min	600 /min	775 (440) /min	(450) /min	870 (570) /min	750 (490) /min	700 (450) /min
Cutter Shank	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	One-Touch	19.05 Weldon	19.05 Weldon
Quick-Release Arbor	YES	YES	NO	NO	NO	YES	YES	NO (but has SDS adaptor)	NO
Adjustable Slide Height	YES	NO	NO	NO	NO	YES (86 mm)	YES	NO	NO
Magnet Indicator	NO	NO	NO	YES	NO	YES	NO	NO	NO
Magnetic Adhesion	15,000 N	not listed	12,000 N	10,000 N	15,000 N (1,500 kgf)	9,000 N	9,000 N	10,000 N (1,000 kgf)	12,250 N
Weight	12.6 kg	9.9 kg	11.8 kg	10.8 kg	11.0 kg	11.5 kg	13 kg	9.5 kg	11.9 kg

Conclusion

The **AGP** has unsurpassed motor power, magnet power, and has the extra versatility of the variable slide height, which allows a full 230 mm of total travel to fit a wide range of cutting tools. This, combined with the quick-release arbor and chuck adaptor make the **AGP** the best choice for an all-around mag drill, especially with TCT cutters.

Comparison Table (SMD351L)



Brand	AGP	Weim	Rotabroach	NITTO	Milwaukee	HMT
Model	SMD351 L	KBB 38	Commando 40	WO-3200	MDE 42	MAX 40V
Power	1100 W	1 050 W	1 100 W	950 W	1 200 W	1 150 W
Capacity Ø (Cutters)	42 mm	38 mm	40 mm	32 mm	42 mm	40 mm
Depth of Cut (Cutters)	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm
Stroke	140 mm (230 mm total travel)	65 mm	85 mm	(not listed)	120 mm	145 mm
Twist Drills	13 mm (optional)	N/A	13 mm (chuck std.)	13 mm (optional)	16 mm (optional)	16 mm
No Load (Rated Load) Speed	450 (270) /min	480 (330) /min	270-610 (175-400) /min	530 (345) /min	300-640 (170-330) /min	600 (380) /min
Variable Speed	NO	NO	YES	NO	YES	NO
Cutter Shank	19.05 Weldon	19.05 Weldon	19.05 Weldon	One-Touch	19.05 Weldon	19.05 Weldon
Quick-Release Arbor	YES	NO	NO	YES	NO	NO
Adjustable Slide Height	YES	NO	NO	YES	NO	NO
Magnetic Adhesion	15,000 N	9,000 N	8,000 N	9,000 N	10,000 N	15,000 N
Weight	12.6 kg	12.9 kg	14.6 kg	13 kg	11.5 kg	10.5 kg

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Tool Dimensions

