



SG6 Straight Grinder

May. 2024

Internal & Confidential

AGP | SG6 Straight Grinder

AGP TAIWAN

Lee Yeong Industrial Co., Ltd.

No.2, Kejia Rd., Douliu City, 64057, Taiwan

Tel : 886-5-5518689 Fax : 886-5-5518635

AGP EUROPE BV

Evenbroekveld 16D, 9420 Erpe-Mere, Belgium

Tel : +32 53 21 62 22 Fax : +32 53 83 88 20

Introduction

Target group & Applications

SG6 Introduction

The SG6 is a straight grinder, which is distinct from an angle grinder or a die grinder. The straight grinder is like a bench grinder that you can operate hand-held. When compared to an angle grinder, a straight grinder grinds with a linear action on the edge of the wheel. When compared to a die grinder, a straight grinder tends to be used on a larger surface area with a larger diameter abrasive wheel. Straight grinders are useful tools for grinding materials that are located in hard to reach areas or that are too large to be held up to a bench grinder. Straight grinders can have many different applications, but are used mainly in pipe work, welding and metal fabrication. With a tapered mandrel arbor, a straight grinder can also operate as a linear polisher.

The SG6 is unique in having constant speed electronics with variable speed controlled by a thumbwheel. This allows it to be adapted to the requirements of the operation. The constant speed results in a smoother finish.

Target Groups & Applications

The SG6 is primarily for metalworkers, welders, and mold makers.

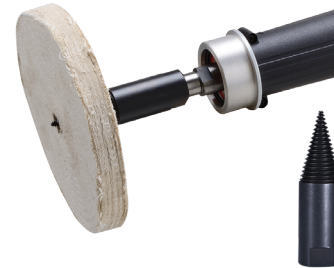


Sales Arguments



Variable Speed

The variable speed from 1600 to 4800 /min is controlled by thumbwheel and can be easily adjusted on the fly.



Polishing Capable with Taper Mandrel Arbor as Standard

Highly efficient linear polishing function.



Constant Speed Electronics

The electronic speed stabilization ensures an even finish at the selected speed setting.



Extra-Long Spindle

The long spindle allows for wider abrasive wheels.



Thermal Insulated Front Grip

The front grip is insulated from heat and gives better comfort and control.

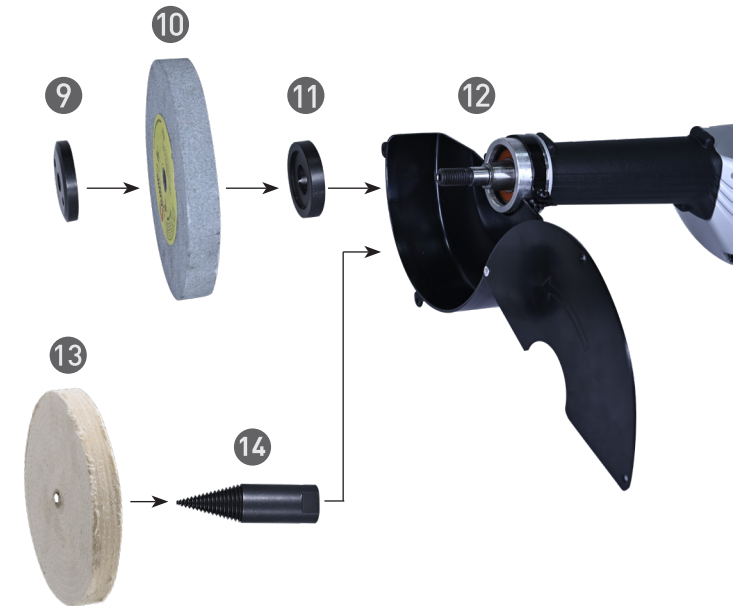


Powerful Motor

The 1500 W provides plenty of power and torque for all of its intended applications.

Technical Specifications

Model	SG6
Power Input	1500 W (220-240 V) 1300 W (110-120 V)
Voltage, Frequency	220-240 V~ 50-60 Hz or 110-120 V~ 50-60 Hz
No Load Speeds	1600 - 4800 min ⁻¹
Spindle	M14 (w/ 20 mm Tool Holder)
Max. Wheel Diameter	150 mm (6")
Max. Wheel Thickness	32 mm (1-1/4")
Soft Start & Overload Protection	With
Insulation Class	Class II (double insulated)
Dimensions (LxWxH)	566 x 80 x 96 mm
Weight	3.4 kg (6.6 lb)



- ① Main Handle
- ② Trigger Switch
- ③ Lock Button
- ④ Thumbwheel, Speed Control
- ⑤ Motor
- ⑥ Gearbox
- ⑦ Front Grip
- ⑧ Wheel Guard
- ⑨ Flange Nut
- ⑩ Grinding Wheel (optional)
- ⑪ Inner Flange
- ⑫ Spindle
- ⑬ Buffing Wheel (not included)
- ⑭ Taper Mandrel Arbor

Offer Content

Standard Accessories

- ① SG6 Straight Grinder
- ② Wheel Guard
- ③ Inner Flange
- ④ Flange Nut
- ⑤ M22 Open-End Wrench
- ⑥ M17 Open-End Wrench
- ⑦ Face Spanner Wrench
- ⑧ M5 L-Hex Key
- ⑨ M3 L-Hex Key
- ⑩ Taper Mandrel Arbor



Optional Accessories

- ⑪ 150 mm Grinding Wheel
- ⑫ M12 Spindle (not shown)
- ⑬ 5/8" Spindle (not shown)



Comparison Table

Brand

AGP

DEWALT

Milwaukee

Makita

BOSCH



Model	SG6	DW882	5243	GS6000	GG8 8 SH
Power Input	220-240 V: 1500 W	230 V: 1800 W	230 V: 1800 W	220-240 V: 750 W	230 V: 1200 W
No Load Speed	1600 - 4800 /min (constant speed)	5700 /min	7000 /min	5600 /min	7640 /min
Variable Speed Control	Thumbwheel 👍	N/A	N/A	N/A	N/A
Capacity	150 mm (6")	150 mm (6")	150 mm (6")	150 mm (6")	125 mm (5")
Spindle	M14	5/8-11 UNC	5/8-11 UNC	M14	M14
Wheel Bore	20 mm 👍	16 mm (5/8")	16 mm (5/8")	20 mm	20 mm
Wheel Thickness	32 mm (1-1/4") 👍	25 mm (1")	25 mm (1")	20 mm	32 mm (1-1/4")
Switch	Lock Off	Lock On	Lock On	Lock On	Lock On
Restart Protection	Yes 👍	No	No	No	Yes
Overload Protection	Yes 👍	No	No	No	No
Polishing Mandrel	Yes, standard 👍	No	optional	No	No
Thermal Insulated Front Handle	Yes	Yes	Yes	Yes	Yes
Weight	3.4 kg 👍	6.7 kg	7.5 kg	5.4 kg	4.4 kg
Street Price, Europe w/o tax		€ 534.55	€ 656.64	€ 313.11	€ 646.34

Conclusion

The **AGP** has many features which are not present on competitors' units. It is the only straight grinder featuring variable speed and constant speed electronics. It is the only grinder with overload protection. It is also lighter in weight and comes with a tapered polishing mandrel as standard equipment. It is clearly a superior tool.

Tool Dimensions

