





BG125 HIGH FREQUENCY BRUSHLESS CONCRETE GRINDER & P4K POWER CONVERTER

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Internal & Confidential

AGP | BG125 Concrete 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

BG125 & P4K Introduction & Applications

The BG125 features a high frequency PMSM brushless motor which has dramatically higher efficiency than traditional universal motors. Being brushless, the motor is maintenance free and its lifespan is many times longer than a universal motor.

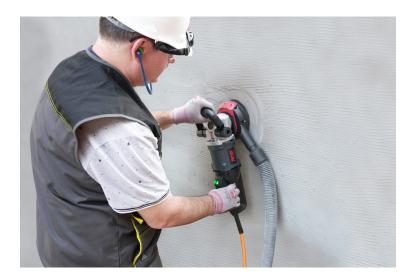
The BG125, with its P4K power converter, are made to endure intensive use in the harshest work conditions. Having IP55 ingress protection allows them to be cleaned after working with hazardous materials, and generally helps them survive in a dusty work environment.

The BG125 is purpose-built and designed for ideal concrete grinding performance while maintaining strict dust control. The variable constant speed function gives the tool excellent

versatility. The vertical design works especially well for grinding floors. By using different types of diamond cup wheels, a vast array of different tasks can be done; from surface grinding and leveling, to stripping coatings, to surface preparation for applying coatings.

Target Group & Applications

- Intensive Use Contractors
- Concrete Polishing Specialists
- Asbestos Removal Specialists
- Nuclear Power Plant Decommissioning Specialists





Sales Arguments



1 LED Indicator



Spring Suspension



4 Half-Moon Door



6 Special Waterproof Switch



3 Ergnomic Front Handle



5 Variable Constant Speed

1 LED Indicator

LED Indicator for optimizing grinding efficiency with overload and overheat warning.

2 Spring Suspension

Outstanding dust control is achieved with the dust skirt with brush and spring suspension

3 Ergnomic Front Handle

Adjustable ergonomic front handle allows clearance for edge grinding.

4 Half-Moon Door

Half-Moon Door for grinding up to the edge.

5 Variable Constant Speed

Variable speed settings on the converter for different applications and materials.

6 Special Waterproof Switch

Hall-Effect Switch is completely waterproof and dustproof.
Includes anti-restart function.

Sales Arguments







PMSM Motor

Brushless PMSM motor has much higher efficiency and many times longer life than universal motors. Suited to long duty cycles in harsh operating conditions.

IP55 Ingress Protection

The motor unit is totally enclosed, protecting it from water and dust ingress. The grinder can be thoroughly washed, withstanding low pressure water jets, making it ideal for working with hazardous materials such as asbestos.

P4K Power Converter

Air-cooled power converter operates on single phase supply in a full range from 100 V up to 240 V. The LCD Information Display shows voltage, error codes, and elapsed hours.

Technical Specification

| Model | BG125 |
|--------------------|---------------------------------------|
| Power Input | 2200 W |
| *No Load Speeds | 3550 - 5350 min ⁻¹ |
| Wheel Diameter | 125 mm (5") |
| Arbor | 22.23 mm (7/8") |
| Spindle | M14 or 5/8-11 (Specify when ordering) |
| Ingress Protection | IP55 |
| Dimensions (LxWxH) | 455 x 200 x 175 mm |
| Weight | 4.6 kg (10.1 lb) |

- 1 Power Supply Cable
- 2 Trigger Switch
- 3 Load Warning Lamp
- 4 High Frequency Motor
- 5 Knob
- 6 Spindle Lock Button

- **7** Front Handle
- 8 Lock Button
- 9 Dust Port
- 10 Dust Skirt
- 11 Tab
- 12 Half-Moon Door





Offer Content

Standard Accessories

- **1** BG125 Concrete Grinder
- 2 Blow Molded Case
- 3 Lock Nut Wrench
- **4** Face Spanner Wrench



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Recommended Item

5 DS25L Vacuum Cleaner



Comparison Table

Brand







High Frequency Concrete Grinder







| Model | BG125 | DGH 150 | DWE46253 |
|------------------------------|---------------------------------------|----------------------------------|--------------------------------|
| Motor Type | PMSM (permanent magnet synchronous) | SR Motor w/ Integrated Converter | BLDC w/ Integrated Converter |
| Power Input | 2200 W | 2100 W | 1600 W |
| Rated Load Speed (/min) | 3550,3850,4150,4450 4750,5050,5350 | 4400,5050,5700,6350, 7000 | 2000,4500,6000,7500, 9000 |
| Wheel Ø | 125 mm | 150 mm | 125 mm |
| Spindle Thread | M14 | M10 | 5/8"-11 UNC |
| Arbor | 22.23 mm | 19 mm | 22.23 mm (7/8") |
| Dimensions (LxWxH) | 455 x 200 x 175 mm | 500 x 250 x 230 mm | L: 330 mm |
| Weight | 4.6 kg | 5.6 kg | 3.1 kg |
| Power Converter | Separate (P4K) | Integrated | Integrated |
| Constant Speed | yes | yes | yes |
| LED Load Indicator | yes | yes | yes |
| Variable Speed | 6 Speeds 👍 | 5 Speeds | 5 Speeds |
| Ingress Protection | IP 55 | not listed | not listed |
| Insulation Class | Class II | Class II | Class II |
| Anti-Restart | yes | yes | yes |
| Dustproof Hall Effect Switch | yes 👍 | no | no |
| Overload Protection | yes | yes | yes |
| Thermal Protection | yes | yes | yes |
| Soft Start | yes | yes | yes |
| Edge Cut-Out | yes | yes | yes |
| Spring Suspension Skirt | yes | no (rigid w/ adjustable height) | no (without adjustable height) |
| Adjustable Handle | yes | yes | yes |
| Trolley Compatible | no | no | no |
| List Price, Germany w/o tax | N/A | 2,566.15 € | \$399.00 USD |

Comparison Table

Brand



Converter



N/A (Integrated Converter)

N/A (Integrated Converter)

| Model | P4K |
|-------------------------------|---|
| Power Input (max.) | 4500 W |
| Power Output (max.) | 4000 W |
| Supply Voltage | 100-240 V ~ 50-60 Hz |
| Weight | 3.1 kg |
| Ingress Protection | IP 55 |
| Insulation Class | Class I |
| RCD (built-in) | yes |
| Cooling | Air Cooled |
| Thermal & Overload Protection | yes |
| Under Voltage Protection | yes |
| Over Voltage Protection | yes |
| LED Indicator | yes |
| LCD Information Display | yes |
| Elapsed & Total Hours | yes |
| Elapsed Hours Reset | yes |
| Error Codes | yes |
| Voltage Display | yes |
| RPM Display | yes |
| Conclusion | The AGP machine, with its PMSM motor, has more power and superior efficiency over the SR motor of the Hilti or the 1600 W BLDC of the Dewalt. The AGP unit has more choice in RPM, having 7 settings, compared to only 5 settings on the Hilti or the Dewalt. The AGP spring suspension dust skirt, being self-adjusting, gives better dust containment than the rigid skirt of the Hilti. The features of the AGP converter are far more useful and give much more information than the Hilti or the Dewalt. Also, the Hilti and Dewalt can only use one voltage, while the AGP can cover the full range of voltage in one unit. For a different voltage with the Hilti or the Dewalt, you need to buy a different tool. Frankly, the Dewalt is just a much lighter duty tool than the others. The AGP system gives the user more functions. |

Tool Dimensions (mm)

