

AGP®



DD160

Diamond Core Drilling Motor

For Dry Drilling of Reinforced Concrete

Jan. 2025

Internal & Confidential

AGP | DD160 Dry Drilling Motor

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 Groups & Applications

DD160 Introduction: The HVAC Specialist.

- **Dry Drilling of Reinforced Concrete up to 162 mm**

While dry drilling of brick is very common, dry drilling of RC is a relatively new technology made possible by special core bits now available. This machine is purpose-built to take full advantage of these new bits. It can also be used in soft materials such as brick up to 250 mm.

- **Soft Percussion**

The special heavy-duty percussion mechanism is optimized for dry drilling of reinforced concrete.

- **2200 W Motor**

The high-efficiency motor features thermal and overload protection, as well as a useful LED load warning system.

- **2-Speed Gearbox**

The robust oil-bath gearbox with mechanical clutch ensures long service life and a wide range of drilling diameters.

- **D-Handle**

The D-handle makes the tool easier to use when mounted on a drill stand in confined spaces and in corners.

Target Groups and Applications

- **Hollow-Core Slabs**

This tool is the ultimate solution for drilling prestressed hollow-core slabs, where wet drilling would cause problems, and where traditional dry drilling motors, which are made for drilling brick, are not effective. This tool's 3rd gear is perfect for drilling the very common size of 82 mm in hollow-core floor slabs for air conditioning.

- **HVAC**

The DD160 is specifically designed for the installation of heating, ventilation equipment and air conditioning, performing cut-outs to meet the requirements of new building standards imposed for the protection of the climate. It is also ideally suited for industrial electricians preparing recesses for electrical outlets, conduits, and light switches.

- **Avoiding the Problems of Wet Drilling**

This tool is an excellent choice for drilling in any situations where water cannot be used, such as in occupied buildings or in constructions where there is a combination of wood and stone. Dry drilling allows faster setup and less cleanup, saving valuable time.

- **Overhead Drilling**

Overhead drilling with this machine is much lighter, less messy, more convenient, and just as precise when compared to wet drilling.

- **Target Groups**

This tool is a must-have for HVAC installers and industrial electricians. It is a useful addition to the equipment of general construction companies, or anyone who needs a heavy-duty dry drill motor for both reinforced concrete and brick.



Technical Specification

Technical Specification

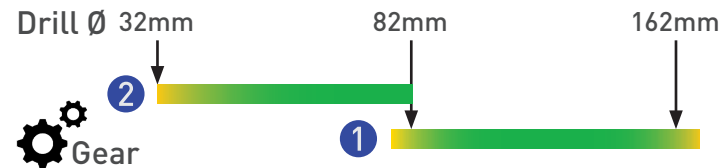
Model	DD160
Power Input	230 - 240 V: 2200 W
	220 V : 2000 W
Voltage, Frequency	110 - 120 V: 1700 W
	110-120 V~ 50-60 Hz or 230-240 V~ 50-60 Hz
No Load Speeds	1250 / 2600 min ⁻¹
Rated Load Speeds	750 / 1500 min ⁻¹
Percussion Frequency	15,000 / 30,000 b/min
Capacity-Dry (Reinforced Concrete)	162 mm (6-1/2")
Capacity-Dry (Brick)	250 mm (10")
Arbor Thread	1 1/4" UNC & 1/2" BSP
Neck Diameter	60 mm
Dimensions (LxWxH)	550 x 130 x 160 mm
Weight	6.0 kg (13.2 lb)



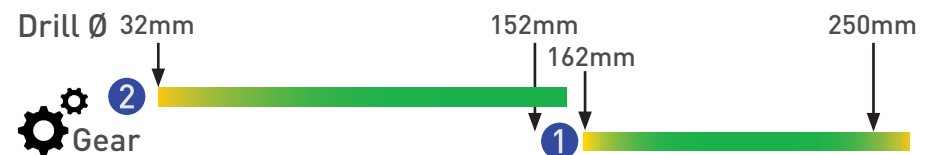
 Gear 1 must always use a drill stand.

- ① Spindle 1-1/4"UNC & 1/2"BSP
- ② Tubular Spirit Level
- ③ LED Load Indicator
- ④ Hall Effect Switch
- ⑤ Lock Button
- ⑥ Main Handle
- ⑦ Percussion Selector
- ⑧ Gear Selector
- ⑨ Side Handle Assy.
- ⑩ Anti-Seize Ring

 **Dry Drilling in Reinforced Concrete**
Ideal Operating Window



 **Dry Drilling in Brick**
Ideal Operating Window



Offer Content

Standard Accessories

- ① DD160 Dry Drilling Motor
- ② Soft Grip Side Handle
- ③ M32 Wrench
- ④ Blow Molded Case



Optional Accessories

- ⑤ L 300 mm Centering Pilot



Dry Core Bits

EAN-13 code	AGP code	Name
5404021715014	305-93114-300-032	Dry drill reinforced concrete dia 32mm (4LSP)
5404021715021	305-93114-300-042	Dry drill reinforced concrete dia 42mm (4LSP)
5404021715038	305-93114-300-052	Dry drill reinforced concrete dia 52mm (5LSP)
5404021715045	305-93114-300-062	Dry drill reinforced concrete dia 62mm (6LSP)
5404021715175	305-93114-300-068	Dry drill reinforced concrete dia 68mm (6LSP)
5404021715052	305-93114-300-072	Dry drill reinforced concrete dia 72mm (7LSP)
5404021715069	305-93114-300-076	Dry drill reinforced concrete dia 76mm (7LSP)
5404021715076	305-93114-300-082	Dry drill reinforced concrete dia 82mm (8LSP)
5404021715083	305-93114-300-092	Dry drill reinforced concrete dia 92mm (8LSP)
5404021715090	305-93114-300-102	Dry drill reinforced concrete dia 102mm (8LSP)
5404021715106	305-93114-300-112	Dry drill reinforced concrete dia 112mm (9LSP)
5404021715113	305-93114-300-122	Dry drill reinforced concrete dia 122mm (9LSP)
5404021715120	305-93114-300-127	Dry drill reinforced concrete dia 127mm (9LSP)
5404021715137	305-93114-300-132	Dry drill reinforced concrete dia 132mm (10LSP)
5404021715144	305-93114-300-142	Dry drill reinforced concrete dia 142mm (13LSP)
5404021715151	305-93114-300-152	Dry drill reinforced concrete dia 152mm (14LSP)
5404021715168	305-93114-300-162	Dry drill reinforced concrete dia 162mm (15LSP)

Comparison Table

Brand								
Special Dry Drilling of Reinforced Concrete with Percussion								
Model No.	DD160	DKS 15P	DKS 15L (aluminum version)	BDB 829	BDB 825	DP 2200 MA-16	ESD 162	FBS16
Power	230-240 V: 2200 W 	 230 V: 2000 W	230 V: 2000 W	230 V: 2150 W	230 V: 1800 W	230 V: 2200 W	230 V: 2200 W	230 V: 2200 W
RPM (rated load)	Gear 1: 750 /min Gear 2: 1500 /min	Gear 1: 700 /min Gear 2: 1700 /min	Gear 1: 540 /min Gear 2: 1200 /min	Gear 1: 725 /min Gear 2: 1500 /min	748 /min	880 /min	0-1100 /min	1100 /min
Percussion Frequency (rated load)	Gear 1: 15 000 bpm Gear 2: 30 000 bpm	Gear 1: 14 000 bpm Gear 2: 34 000 bpm	Gear 1: 10 800 bpm Gear 2: 24 000 bpm	Gear 1: 14 500 bpm Gear 2: 30 000 bpm	18 000 bpm	21 000 bpm	22 000 bpm	22 000 bpm
Insulation Class	Class 2	Class 1	Class 1	Class 2	Class 2	Class 2	Class 1	Class 1
Capacity-Dry, Reinforced Concrete	162 mm	150 mm	180 mm	200 mm	160 mm	152 mm	162 mm (202 mm max.)	162 mm
Capacity-Dry, Brick	250 mm 	180 mm	200 mm	250 mm	200 mm	202 mm	202 mm	202 mm
Spindle	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP	1-1/4" UNC	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP
Led indicator	Yes (in most visible position) 	 No	No	Yes (on left side of handle)	Yes (on left side of handle)	No	Yes (on left side of handle)	Yes (on left side of handle)
Anti-Seize Ring	Yes 	No	No	No	No	Optional	Optional	No
Integrated Dust Collection	Yes 	No (external)	No (external)	No (external)	No (external)	Yes	No (external)	No (external)
Switch Type	Hall-Effect Dustproof/Waterproof 	 Standard Type	Standard Type	Standard Type	Standard Type	Standard Type	Standard Type, Variable	Standard Type
Locking Gear Lever	Yes	No	No	No	No	No	No	No

Comparison Table

Brand



Special Dry Drilling of Reinforced Concrete with Percussion



Model No.	DD160	DKS 15P	DKS 15L (aluminum version)	BDB 829	BDB 825	DP 2200 MA-16	ESD 162	FBS16
Levels	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Soft-Grip Rubber Handle	Yes	Yes	Yes	No (hard plastic)	No (hard plastic)	No	No (hard plastic)	No (hard plastic)
In-line Side Handle	Yes	Yes	Yes	No (fixed)	No (fixed)	No (offset)	No (offset)	No (offset)
Centering Aid	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Weight	6.0 kg (with anti-seize ring)	5.8 kg	6.4 kg	6.6 kg	5.2 kg	7.1 kg	6.6 kg	6.7 kg
Gearcase / Motor Housing Material	Aluminum / Plastic	Aluminum / Plastic	Aluminum / Aluminum	Aluminum / Plastic	Aluminum / Plastic	Aluminum / Aluminum	Aluminum / Plastic	Aluminum / Plastic
Gearbox Lubrication	Oil Bath	Oil Bath	Oil Bath	Grease	Grease	Grease	Grease	Grease
Street Price (Germany, w/o tax) Internet sourced info (as of 2022.07)		€ 975,00	€ 1056,00	€ 949,54	€ 725,21	€ 990,00	€ 771,76	€ 961,00
Remarks		No LED load indicator.	No LED load indicator.	Fixed handle.	Fixed handle.	Single gear limits size versatility (only good for larger Øs)	Single gear limits size versatility (performance suffers with both larger & smaller Øs)	Single gear limits size versatility (performance suffers with both larger & smaller Øs)
Conclusion	The AGP offers the best combination of features and performance to work in the widest range of sizes and includes useful touches, such as the very clearly visible LED load indicator, standard anti-seize ring, soft-grip handle and dustproof/waterproof switch. This gives the maximum value to the end user.							

Comparison Table

Brand

Special Dry Drilling of Reinforced Concrete with Percussion



Model No.	DD160	BDB 829	BDB 825
Power	230 - 240 V: 2200 W 👍	230 V: 2150 W	230 V: 1800 W
RPM (rated load)	Gear 1: 750 /min Gear 2: 1500 /min	Gear 1: 725 /min Gear 2: 1500 /min	748 /min (only one gear)
Percussion Frequency (rated load)	Gear 1: 15 000 bpm Gear 2: 30 000 bpm	Gear 1: 14 500 bpm Gear 2: 30 000 bpm	18 000 bpm
Insulation Class	Class 2	Class 2	Class 2
Capacity-Dry, Reinforced Concrete	162 mm	200 mm	160 mm
Capacity-Dry, Brick	250 mm 👍	250 mm	200 mm
Spindle	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP
Led Indicator	Yes (in most visible position)	Yes (on left side of handle)	Yes (on left side of handle)
Anti-Seize Ring	Yes 👍	No	No
Integrated Dust Collection	Yes 👍	No (external)	No (external)
Switch Type	Hall-Effect Dustproof/Waterproof	Standard Type	Standard Type
Locking Gear Lever	Yes 👍	No	No
Levels	Yes	Yes	Yes
Soft-Grip Rubber Handle	Yes 👍	No (hard plastic)	No (hard plastic)
In-line Side Handle	Yes 👍	No (fixed) (not adjustable)	No (fixed) (not adjustable)
Centering Aid	Optional	Optional	Optional
Weight	6.0 kg (with anti-seize ring) 👍	6.6 kg	5.2 kg
Gearcase / Motor Housing Material	Aluminum / Plastic	Aluminum / Plastic	Aluminum / Plastic
Gearbox Lubrication	Oil Bath 👍	Grease	Grease
Street Price (Germany, w/o tax) Internet sourced info (as of 2022.07)		€ 949,54	€ 725,21
Remarks		Fixed handle.	Fixed handle.

Conclusion The **AGP** offers the best combination of features and performance to work in the widest range of sizes and includes useful touches, such as the very clearly visible LED load indicator, standard anti-seize ring, soft-grip handle and dustproof/waterproof switch. This gives the maximum value to the end user.

Comparison Table

Brand



Special Dry Drilling of Reinforced Concrete with Percussion

Model No.	DD160	DKS 15P	DKS 15L (aluminum version)
Power	230 - 240 V: 2200 W 👍	230 V: 2000 W	230 V: 2000 W
RPM (rated load)	Gear 1: 750 /min Gear 2: 1500 /min	Gear 1: 700 /min Gear 2: 1700 /min	Gear 1: 540 /min Gear 2: 1200 /min
Percussion Frequency (rated load)	Gear 1: 15 000 bpm Gear 2: 30 000 bpm	Gear 1: 14 000 bpm Gear 2: 34 000 bpm	Gear 1: 10 800 bpm Gear 2: 24 000 bpm
Insulation Class	Class 2	Class 1	Class 1
Capacity-Dry, Reinforced Concrete	162 mm	150 mm	180 mm
Capacity-Dry, Brick	250 mm 👍	180 mm	200 mm
Spindle	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP	1-1/4" UNC & 1/2" BSP
Led Indicator	Yes (in most visible position) 👍	No	No
Anti-Seize Ring	Yes 👍	No	No
Integrated Dust Collection	Yes 👍	No (external)	No (external)
Switch Type	Hall-Effect Dustproof/Waterproof 👍	Standard Type	Standard Type
Locking Gear Lever	Yes 👍	No	No
Levels	Yes	Yes	Yes
Soft-Grip Rubber Handle	Yes	Yes	Yes
In-line Side Handle	Yes	Yes	Yes
Centering Aid	Optional	Optional	Optional
Weight	6.0 kg (with anti-seize ring)	5.8 kg	6.4 kg
Gearcase / Motor Housing Material	Aluminum / Plastic	Aluminum / Plastic	Aluminum / Aluminum
Gearbox Lubrication	Oil Bath	Oil Bath	Oil Bath
Street Price (Germany, w/o tax) Internet sourced info (as of 2022.07)		€ 975,00	€ 1056,00
Remarks		No LED load indicator.	No LED load indicator.

Conclusion The **AGP** offers the best combination of features and performance to work in the widest range of sizes and includes useful touches, such as the very clearly visible LED load indicator, standard anti-seize ring, soft-grip handle and dustproof/waterproof switch. This gives the maximum value to the end user.

Comparison Table

Brand

AGP[®]

CARDI



Special Dry Drilling of Reinforced Concrete with Percussion

Model No.	DD160	DP 2200 MA-16
Power	230 - 240 V: 2200 W	230 V: 2200 W
RPM (rated load)	Gear 1: 750 /min Gear 2: 1500 /min	880 /min (Only One Gear)
Percussion Frequency (rated load)	Gear 1: 15 000 bpm Gear 2: 30 000 bpm	21 000 bpm
Insulation Class	Class 2	Class 2
Capacity-Dry, Reinforced Concrete	162 mm	152 mm
Capacity-Dry, Brick	250 mm	202 mm
Spindle	1-1/4" UNC & 1/2" BSP	1-1/4" UNC
Led Indicator	Yes (in most visible position)	No
Anti-Seize Ring	Yes	Optional
Integrated Dust Collection	Yes	Yes
Switch Type	Hall-Effect Dustproof/Waterproof	Standard Type
Locking Gear Lever	Yes	No
Levels	Yes	No
Soft-Grip Rubber Handle	Yes	No
In-line Side Handle	Yes	No (offset)
Centering Aid	Optional	Optional
Weight	6.0 kg (with anti-seize ring)	7.1 kg
Gearcase / Motor Housing Material	Aluminum / Plastic	Aluminum / Aluminum
Gearbox Lubrication	Oil Bath	Grease
Street Price (Germany, w/o tax) Internet sourced info (as of 2022.07)		€ 990,00

Remarks

Single gear limits size versatility (only good for larger Øs)

Conclusion

The **AGP** offers the best combination of features and performance to work in the widest range of sizes and includes useful touches, such as the very clearly visible LED load indicator, standard anti-seize ring, soft-grip handle and dustproof/waterproof switch. This gives the maximum value to the end user.

AGP | DD160 Dry Drilling Motor

Comparison Table

Brand



Special Dry Drilling of Reinforced Concrete with Percussion

Model No.	DD160	ESD 162	FBS16
Power	230 - 240 V: 2200 W	230 V: 2200 W	230 V: 2200 W
RPM (rated load)	Gear 1: 750 /min Gear 2: 1500 /min 👍	0-1100 /min (Only One Gear)	1100 /min (Only One Gear)
Percussion Frequency (rated load)	Gear 1: 15 000 bpm Gear 2: 30 000 bpm	22 000 bpm	22 000 bpm
Insulation Class	Class 2	Class 1	Class 1
Capacity-Dry, Reinforced Concrete	162 mm	162 mm (202 mm max.)	162 mm
Capacity-Dry, Brick	250 mm 👍	202 mm	202 mm
Spindle	1-1/4" UNC & 1/2" BSP	1-1/4" UNC	1-1/4" UNC & 1/2" BSP
Led Indicator	Yes (in most visible position) 👍	Yes (on left side of handle)	Yes (on left side of handle)
Anti-Seize Ring	Yes 👍	Optional	No
Integrated Dust Collection	Yes	No (external)	No (external)
Switch Type	Hall-Effect Dustproof/Waterproof 👍	Standard Type, Variable	Standard Type
Locking Gear Lever	Yes 👍	No	No
Levels	Yes	Yes	Yes
Soft-Grip Rubber Handle	Yes 👍	No (hard plastic)	No (hard plastic)
In-line Side Handle	Yes 👍	No (offset)	No (offset)
Centering Aid	Optional	Optional	Optional
Weight	6.0 kg (with anti-seize ring)	6.6 kg	6.7 kg
Gearcase / Motor Housing Material	Aluminum / Plastic	Aluminum / Plastic	Aluminum / Plastic
Gearbox Lubrication	Oil Bath	Grease	Grease
Street Price (Germany, w/o tax) Internet sourced info (as of 2022.07)		€ 771,76	€ 961,00
Remarks		Single gear limits size versatility (performance suffers with both larger & smaller Øs)	Single gear limits size versatility (performance suffers with both larger & smaller Øs)
Conclusion	The AGP offers the best combination of features and performance to work in the widest range of sizes and includes useful touches, such as the very clearly visible LED load indicator, standard anti-seize ring, soft-grip handle and dustproof/waterproof switch. This gives the maximum value to the end user.		

Tool Dimensions

