



DM9

3-Speed

Diamond Core Drilling Motor

For Wet Drilling of Reinforced Concrete

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Internal & Confidential

AGP | DM9 Rig-Mounted Diamond Core 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 group & Applications

DM9 Introduction

The DM9 is a rig-mounted core drilling motor for wet drilling up to 250 mm in reinforced concrete. It runs on single phase 230 V at 16 A input. The universal motor is rated at an impressive 3500 W input. There are 3 mechanical gear ratios to cover its range of operation, allowing the speed to be matched to the bit diameter.

Safety for the user and protection of the tool are provided by a robust, yet accurate mechanical clutch in combination with a complete electronic motor protection package including soft-start, thermal protection, and overload protection. The electronics also include the slow start function, which automatically assists in starting the kerf. The operator is able to monitor the load level visually with the LED Load Indicator, and additionally, the AVR system also warns the operator of overload conditions by slowing the motor at the load limit, allowing uninterrupted operation. Durability is ensured by the all metal construction and the special waterproof reed-type switch, which is much more reliable than traditional switches and includes anti-restart functionality. Altogether, this makes the DM9 a great combination of efficient performance and excellent useability.

Target Groups and Applications

The DM9 will be the primary choice for operators who need to wet drill large diameters up to 250 mm in reinforced concrete. It will be a great choice for drilling companies, contractors, and anyone who needs a robust, high performance drilling motor.

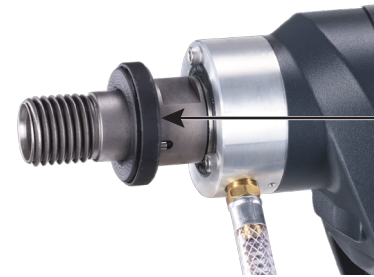


Sales Arguments



3500 W Universal Motor with Aluminum Housing

The high-efficiency motor features complete electronic protection, including overload and thermal protection, as well as soft start. It also features Slow Start: which automatically runs the motor slowly for a short time, which assists in starting the kerf.



Anti-Seize Ring

The motor comes standard with an anti-seize ring which helps prevent the bit becoming stuck on the spindle.



Robust Oil-Bath Gearbox

The 3-speed oil-bath gearbox allows optimized torque and drilling speeds for a wide range of diameters. The mechanical slip clutch protects the system.



Spirit Levels

Horizontal and vertical spirit levels are built into the motor for more convenient set-up.



Intuitive Load Warning Systems

The motor gives the operator load information in 2 ways:
The LED Load Indicator gives visual information.
And the AVR System automatically slows the motor at the load limit. Together these make it intuitive and easy to operate the motor at its optimal load range for maximum work efficiency.

Special Waterproof Switch

The switch's reed-type operative element is completely impervious to water, dust or slurry, thus eliminating a common failure point in coring motors.

The switch also features anti-restart function.

Technical Specifications

Model	DM9
Power Input	3500 W / 16 A (220 V), 2800 W / 25 A (110 V)
Voltage, Frequency	220-240 V~ 50-60 Hz or 110-120 V~ 50-60 Hz
No Load Speeds	550 / 1000 / 1600 min ⁻¹
Rated Load Speeds	345 / 630 / 1000 min ⁻¹
Drilling Capacity	Ø250 mm (10")
Gear Oil Type	80W-90
Gear Oil Capacity	625 ml
Spindle Thread	1-1/4" UNC male & 1/2" BSP female
Insulation Class	Class I with PRCD / GFCI (110-120V w/o PRCD / GFCI)
Soft Start & Overload	With
ProtectionDimensions (LxWxH)	550 x 155 x 210 mm
Weight	12.3 kg (27.1 lb)



- 1 Spindle
- 2 Anti-Seize Ring
- 3 Motor Unit
- 4 Tail Handle
- 5 Power Supply Cord
- 6 Gear Selector
- 7 Water Feed Valve
- 8 Horizontal Spirit Level
- 9 Motor Start / Stop Switch
- 10 LED Load Indicator
- 11 Vertical Spirit Level



Offer Content

Standard Accessories

- 1 DM9 Three-Speed Diamond Core Drilling Motor



Optional Accessories

- 2 40mm Extension Spacer Kit

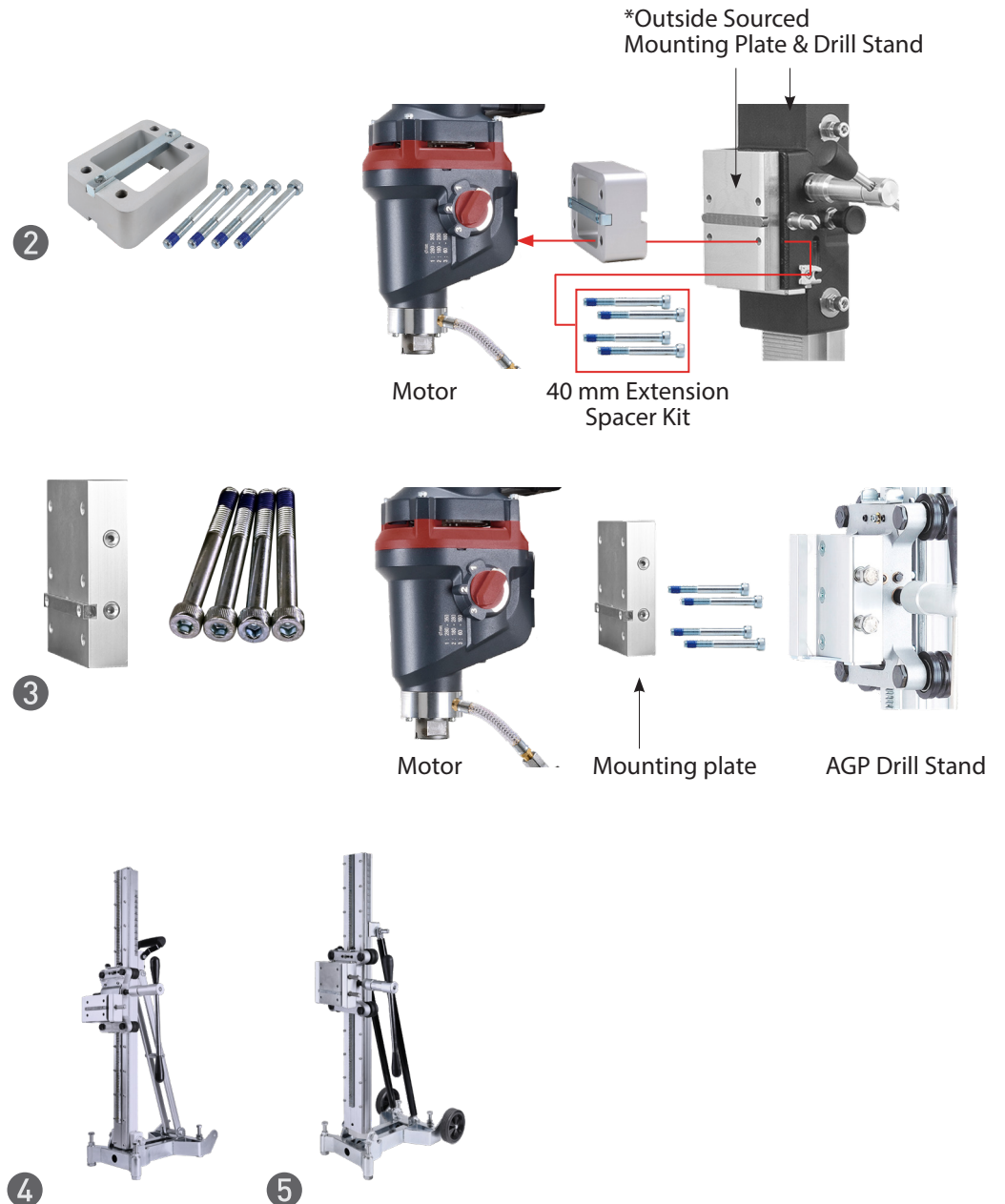
This spacer kit is not necessary with AGP drill stands, but may be necessary when mounting the motor to some models of other manufacturers' drill stands. The spacer fits between the motor and the stand's mounting plate to provide clearance and prevent the motor from interfering with the stand. Screws are included. (The spacer also adds an extra 80 mm to the maximum core bit diameter with a given stand.)

- 3 Mounting Plate (AGP drill stands only)




















Long type, for use with AGP drill stands. The plate is standard equipment with large AGP drill stands, so you only need to buy the mounting plate if you need to use multiple motors sharing the same drill stand.

- 4 S350 Drill Stand

- 5 S500 Drill Stand



Comparison Table

Brand							
250 mm Wet Drilling Motor							
Model	DM9	DK26	DM 280 (HIGH)	CARDI T2 220 EL	DME24UW	BDB 8325	EBM 250/2 RP
Power Input (230 V)	3 500 W	2 600 W	2 700 W	2 570 W	2 200 W	2 200 W	2 500 W
Rated Load Speeds	Gear 1: 345 Gear 2: 630 Gear 3: 1000	Gear 1: 320 Gear 2: 630 Gear 3: 980	Gear 1: 360 Gear 2: 800 Gear 3: 1380	Gear 1: 440 Gear 2: 756 Gear 3: 1045	Gear 1: 370 Gear 2: 590 Gear 3: 990	Gear 1: 310 Gear 2: 620 Gear 3: 1200	Gear 1: 360 Gear 2: 850
Capacity	40 - 250 mm	40 - 250 mm	30 - 250 mm	40 - 220 mm	40 - 250 mm	40 - 250 mm	52 - 250mm
Spindle	1-1/4"-7 & 1/2" BSP	1-1/4"-7 & 1/2" BSP	1-1/4"-7	1-1/4"-7 & 1/2" BSP	1-1/4"-7 & 1/2" BSP	1-1/4"-7 & 1/2" BSP	1-1/4"-7
Weight	12.3 kg	11.6 kg	13 kg	9.8 kg	7.6 kg	10.2 kg	10.5 kg
Waterproof Reed Switch	Yes 	No	No	No	No	No	No
Anti-Seize Ring	Yes 	Yes	No	Optional	No	No	No
Gearbox Lubrication	Oil Bath	Oil Bath	Oil Bath	Oil Bath	Oil Bath	Grease	Oil Bath
Mechanical Clutch	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spirit Levels	Yes 	No	No	No	Yes	Yes	No
Load Warning System	AVR System + LED Load Indicator 	Intellitronic	Elgard + LED Indicators	Cardi Electronic Clutch	LED Indicator only	LED Indicator only	LED Indicator only
Overload & Thermal Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Soft Start	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slow Start Hole Starting Function	Yes 	No	Yes	No	No	No	No
Motor Housing Material	Aluminum	Aluminum	Plastic	Aluminum	Aluminum	Plastic	Plastic
Conclusion	The AGP has the highest power rating in this group while also having the most complete range of features, such as the AVR surge-type load warning system combined with the visual LED load indicator, slow start hole starting function, and included spirit levels. The AGP offers the best combination of performance and value in one product.						

Tool Dimensions (mm)

