



DM8P

Diamond Core Drilling Motor

For Wet Drilling of Reinforced Concrete

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Internal & Confidential

AGP | DM8P Wet Drilling Motor

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Introduction

Target group & Applications

DM8P Introduction

This is a hand-held core drilling motor with 3-speed oil-bath gearbox which is primarily for wet drilling up to 250 mm in reinforced concrete. The motor is rated at 2500 W, making it the most powerful hand-held coring motor on the market. One very special characteristic is its constant speed electronics, which make the rpm under load very stable, allowing very smooth, fast, and effective drilling with the added benefit of longer core bit life. Safety for the user and protection of the tool are provided by a robust but accurate clutch in combination with a complete electronic motor protection package including soft-start, thermal protection, and overload protection. Although the larger diameters must of course be drilled using a drill stand, the hand-held capability is very convenient for smaller sizes, and its three gear ratios cover a wide range of drilling diameters. Altogether, this makes the DM8P a great combination of impressive capacity and excellent versatility.



Target Groups and Applications

The DM8P will be the go-to choice for operators who need to wet drill any sizes from about 26 mm up to 250 mm in reinforced concrete. For sizes above that, they will need to go with the larger rig-mounted motors. It will be a great choice for drilling companies, contractors, and anyone who needs the highest capacity hand-held coring motor available.



Sales Arguments



Heavy-Duty Gearbox

Oil bath, 3-speed gearbox with mechanical clutch for heavy-duty use.



Constant Speed High-Output Motor

The 2500 W motor makes this the most powerful hand-held motor on the market.

The constant speed electronics make drilling faster, smoother and more efficient, while extending the life of the core bits.



Highly Visible LED Load Indicator

LED load indicator is large, bright, and in the most visible position, to give the operator reliable guidance on load conditions.



Anti-Seize ring

Standard equipment anti-seize ring prevents the bit from becoming stuck on the spindle.



Spirit Level

Spirit level allows operator to create precisely aligned holes



Smart Electronic Control system

The Smart Electronic Control system also includes soft-start, thermal protection, and overload protection.

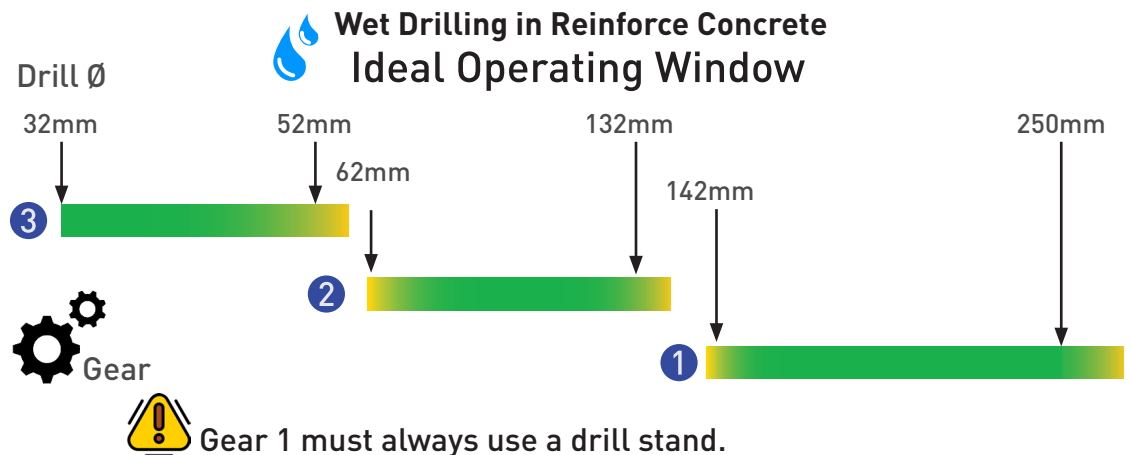
Technical Specifications

Technical Specification

Model	DM8P
Power Input	220 V: 2500 W 110 V: 2200 W
Voltage	110-120 V~ 50-60 Hz or 220-240 V~ 50-60 Hz
No Load Speeds	480 / 1050 / 1500 min ⁻¹
Rated Load Speeds	320 / 700 / 1450 min ⁻¹
Capacity-Wet (Hand-Held)	82 mm (3-1/4")
Capacity-Wet (Rig-Mounted)	250 mm (10")
Gear Oil Type	80W-90
Gear Oil Capacity	300 ml
Arbor Thread	1-1/4"UNC & 1/2" BSP
Neck Diameter	60 mm
Dimensions	463 mm x 127 mm x 310 mm
Net Weight	7.3 kg (16.0 lb)



- 1 Spindle 1-1/4"UNC & 1/2"BSP
- 6 Lock-On Switch
- 2 Anti-Seize Ring
- 7 Main Handle
- 3 Water Feed Valve
- 8 Lock Button
- 4 Side Handle Assy.
- 9 Spirit Level
- 5 Gear Selector
- 10 Indicator Light



Offer Content

Standard Accessories

- ① DM8P Wet Drilling Motor
- ② Soft-Grip Side Handle
- ③ M32 Wrench
- ④ Blow Molded Case



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Optional Accessories

- ⑤ Roto Molded Case



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Comparison Table

Brand							
Model	DM8P	EBL 33F	PLD 182	BDB 818	DK26 S	T1 200 EL	DD 160
Power	220-240 V: 2500 W	230 V: 2300 W	230 V: 2300 W	230 V: 1800 W	230 V: 2600 W	230 V: 2200 W	230 V: 2200 W
RPM (rated load)	Gear 1: 320 Gear 2: 700 Gear 3: 1450	Gear 1: 450 Gear 2: 1200 Gear 3: 2580	Gear 1: 0-520 Gear 2: 0-1250 Gear 3: 0-2700	Gear 1: 423 Gear 2: 910 Gear 3: 1710	Gear 1: 460 Gear 2: 910 Gear 3: 1420	Gear 1: 385 Gear 2: 920 Gear 3: 1280	Gear 1: 420 Gear 2: 700 Gear 3: 1570
Capacity-Wet (Reinforced Concrete)	250 mm	220 mm	182 mm	180 mm	170 mm	200 mm	202 mm
Spindle	1-1/4" male & 1/2" female	1-1/4" & 1/2"	1-1/4" & 1/2"	1-1/4" & 1/2"	1-1/4" & 1/2"	1-1/4" & 1/2"	BI+
Constant Speed	Yes 	No	No	No	No	No	Yes
LED Indicator	Yes 	No	Yes	Yes	No	No	Yes
Spirit Level	Yes 	Yes	Yes	Yes	No	No	No
Anti-Seize Ring	Yes 	No	No	No	Yes	No	N/A
Locking Gear Lever	Yes 	No	No	No	No	No	No
Soft-Grip Handle	Yes 	No	No	No	N/A	N/A	N/A
In-line Side Handle	Yes 	No	No	No (& Non Adjustable)	N/A	N/A	N/A
Gearbox Lubrication	Oil Bath	Oil Bath	Oil Bath	Oil Bath	Oil Bath	Oil Bath	
Motor Housing Material	Aluminum	Aluminum	Aluminum	Plastic	Aluminum	Aluminum	Plastic
Weight	7.3 kg	7.2 kg	7.5 kg	7.7 kg	11.6 kg	7.3 kg	10.3 kg
Remarks	Constant Speed Electronics	Offset side handle, no Load Indicator. Given its power and rpm, the claimed capacity of 220 mm may be overly optimistic.	Awkward main handle, offset side handle	Non-adjustable side handle. Low power rating, plastic housing.	Heavy. No load indicator. No levels. Rig-mounted only, so less versatile.	No load indicator. No levels. Rig-mounted only.	Heavy because of built-in carriage. Plastic housing. No levels. Rig-mounted only.
Conclusion	The AGP DM8P offers the best combination of capability, features, and versatility on the market.						

Tool Dimensions

