Grammar ELECTRICAL

COMMERCIAL AND INDUSTRIAL 24 HOURS INSTALLATION AND MAINTENANCE

Safe Operating Procedures – Ramset Dyna Drill

Last Updated: 21st November 2017

Do not use unless you have read the Operating Manual, been shown how to safely operate this power tool and all Safe Operating Procedures and Precautions are being followed.

REQUIRED PPE		
- Safety Glasses or Face Shield	- Ear Muffs or Hearing Protection	- P2 Dust Mask
- Safety Footwear	- Protective Clothing (Close Fitting)	- Contain long/loose hair
- Remove any rings/jewellery	- Hand Protection Gloves	

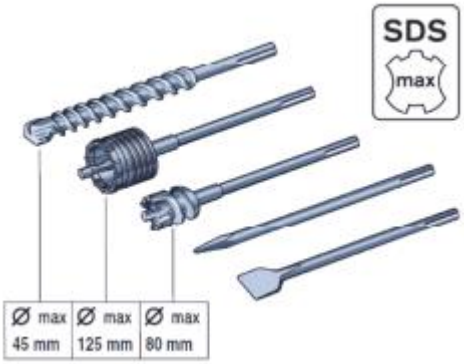
Before using

- **Declutter the workspace**. Ensure you have a safe clear area in which to work free of trip hazards, obstacles, or other people.
- **Ensure sufficient lighting of work area**. A head torch works well to ensure there is sufficient lighting of the area where you are working to avoid eye strain and accidents due to poor light
- **Power cord, extension lead, socket.** Ensure all electrical leads/cords/sockets are safe for use. The lead should have a current electrical safety test tag. If not, do not use the tool without carrying out a test and inspection as per AS/NZS3012 and AS/NZS3760and applying a test tag. Keep lead clear of the area where drilling.
- **Ventilation**. Drilling into concrete and Core Cutting will produce Silica dust which is hazardous to yourself and those around you. Ensure you are following work guidelines in Grammar Electrical Silica Dust Policy when using this power tool.
- **Auxiliary/Side Handle**. Ensure this is always used and attached correctly as per the operating instructions. Note this handle is designed to keep a certain play after fixing in order to compensate tool rotation vibrations. Therefore, do not over-tighten the auxiliary handle.
- **Support of work piece.** Ensure the item you are drilling in to is securely supported
- **Drilling area.** Ensure the area you are drilling does not contain any form of Asbestos Containing Material (ACM) and does not carry any form of electrical cabling, water, or gas pipes in it. Ensure any material or debris from the area, especially if it could be ignted by hot chips or friction.
- **Surface of work.** This tool is solely determined for chiselling and hammer drilling of mainly mineral materials (eg reinforced concrete, masonry, tiles, pavements) **without** water.
- **Operating Manual**. The operating manual is stored in the box with the Ramset Dyna Drill and can also be found with this safe use policy in your H&S Manual. Ensure you have read this manual prior to using the tool.
- **Chuck.** Ensure the chuck is tightly secured to the spindle. Tighten the bit securely in the chuck, using the provided oil placed on to the drill bit prior to securing it in to the chuck.
- **Power.** Do not plug the drill into the socket until you have selected the drill bit, secured it correctly to the drill and have performed ALL before use checks
- **Environment.** Do not use this power tool in wet areas or environments

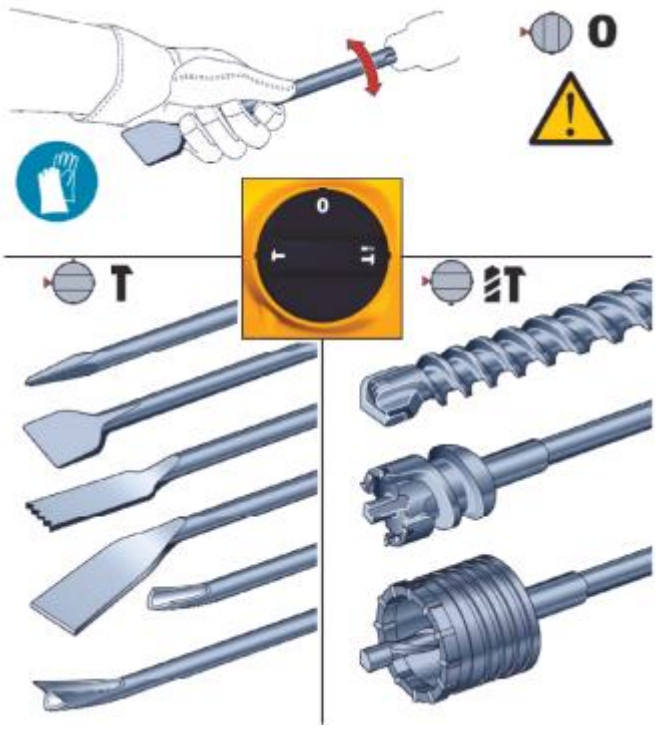
Selecting a drill bit

Ensure you are only using drill bit's of the correct size and type for this DynaDrill. Refer Operating Manual.

- This DynaDrill 566 is designed for the following drill bits with maximum diameter as shown below



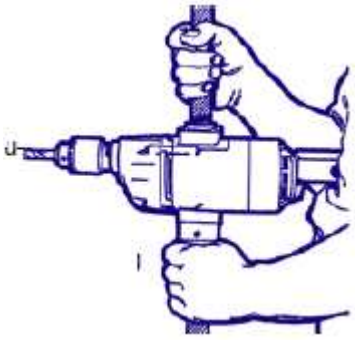
- Ensure you set the DynaDrill to the correct selector switch based on the type of drill bit being used

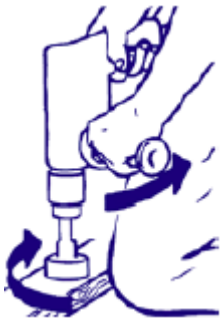


- Drills are used to create a hole with a rotating drill bit in wood, metal and plastics. Drills are rated by the maximum bit capacity of their chuck.
- Hammer Drills and Rotary Hammers use impacting action in combination with roation of the specially designed "percussion bit" to drill holes in masonry materials. In the rotary mode they can also be used to drive fasteners into concrete, masonry, pavement, and similar materials. Often, these tools have different operating modes; hammering with rotary motion, rotation only, and hammering only
- Hammers have a back and forth hammering action, without rotation. They are most often used for light-to-medium demolition or shaping of concrete, masonry, asphalt and similar materials.

Safety when using

- **Familiarise yourself with the DynaDrill before turning on and pre-use checks have been done**. Make sure you are aware of exactly where power on/off switch is and that all pre-use safety checks/processes have been followed.
- **Comfortable stable position.** Ensure you are in a comfortable stable position. Avoid bending if possible. Ensure you are working off a sound and safe working platform with fall prevention when working above ground.
- **PPE.** Ensure all PPE is worn (refer page 1 of this Safe Operating Guide)
- **Hold the tool firmly at all times.** One hand firmly on the housing and the other on the side handle.
- **When drilling**.
    - Firmly grasp the trigger handle and auxiliary handle to maintain control.
    - Always hold or brace the tool securely. Brace against stationary things for maximum control.
    - In a binding situation, the tool will react in the opposite direction of the turning bit. When drilling in to the workpiece (clockwise), the tool will try to spin counter clockwise. Note this DynaDrill 566 has a rotation control system that is designed to stop the tool immediately upon the drill bit jamming to minimise risk of harm to the operator from “kick back”.
    - Don’t force the tool – apply enough pressure to keep the bit cutting or chipping smoothly. If the motor slows down, relive the pressure. Too much pressure can damage the bit and cuase you to lose control of the tool.
    - If the drill bit binds in the workpiece, release the trigger immediately. Unplug the tool, and then free the bit from the workpiece. Do not use a lock-on button when drilling in warped, pitched, knotty, or imbedded materials (eg reinforcing bars in concrete) where binding may be more common. Do not try to free a jammed bit by starting and stopping the tool
    - As you get close to breaking through the workpiece, reduce pressure and allow the bit to pass through the hole easily.





- **Do not touch the drill bit immediately after operation; it may be extremely hot and could burn your skin.**

Operating Manual

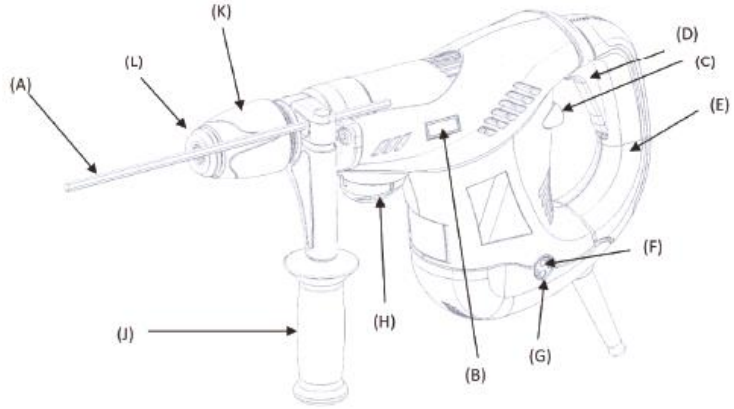
Grammar Electrical currently has 1x Ramset DynaDrill 566 as a workshop based power tool. The Operating Manual for the use of this tool can be found in the drills case as well as in your Health & Safety Manual.

Ramset™

6kg Combi Hammer Operator's Manual

DynaDrill™ 566 R3 MAX™

TO REDUCE THE RISK OF INJURY, USER MUST READ OPERATOR'S MANUAL.



A	Depth adjustment
B	Water level horizontal
C	Water level vertical
D	Electronic switch
E	Handle
F	Power indicator
G	Service indicator
H	Function selector switch
J	Adjustable handle
K	Tool lock
L	Dust protection cap

Features:

- Soft Start
- Speed Control
- Manual Speed Control
- One Hand Locking
- Dynamic Safety Clutch
- Ramset Vibration Control
- Ramset Rotation Control

RVC : Ramset Vibration Control

This system is designed to reduce vibration and thus to reduce health risks.
Attention: The auxiliary handle (J) keeps a certain play after fixing in order to compensate tool rotation vibrations. Consequently, do not over-tighten the auxiliary handle.

RRC : Ramset Rotation Control

This system enhances the comfort during hammer drilling. Suddenly occurring tool rotations, e. g. jamming of the drill bit, will stop the motor immediately and the power supply to the motor is interrupted. To turn on the motor again, the electronic switch (D) has to be pulled again. **Attention:** Despite this function, the tool must also be held on the additional handle.

DynaDrill™566 Combi Hammer

This machine can be operated safely only when the operating and safety instructions have been completely read and strictly observed to. It is recommended to receive practical instruction before using the machine for the first time. **The general safety instructions (separately enclosed) must be observed!**

Area of use:
This tool is solely determined for chiseling and hammer drilling of mainly mineral materials (e.g. reinforced concrete, masonry, tiles, pavements) **without** water. Materials releasing noxious dust or steam during the work may **not** be treated. Improper use may cause injury or damage the tool.

Safety intructions

Noise and Vibration

L_{WA} =	104		dB(A)
L_{pA} =	93		dB(A)
K =	3		dB(A)

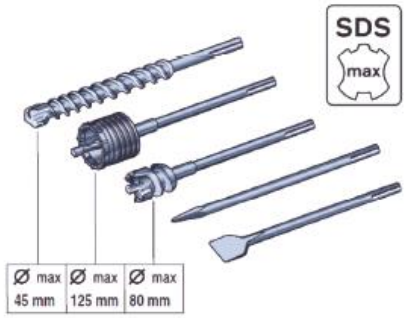
		----	RVC	----	RVC	
DD566	a_h =	15,4	8,2	13,8	9,1	m/s²
	K =	1,5		1,5	1,6	m/s²

Ramset™ DD566

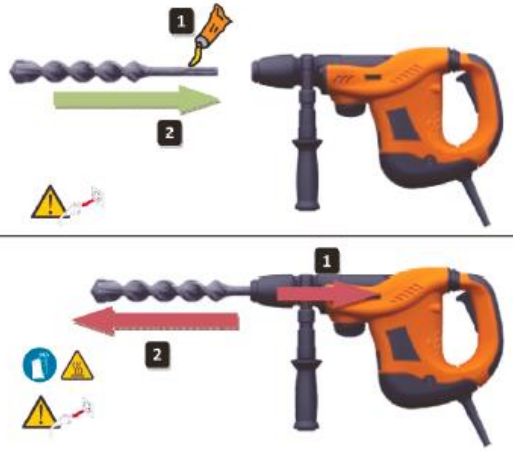
Technical data

	U_n =	220 – 240 V
	F_n =	50 / 60Hz
	P_n =	1100W
		0 - 450 min^{-1}
		6,5 J 0 – 3000 min^{-1}
		6,3 kg
		4 m

Suitable tooling



Tool holder



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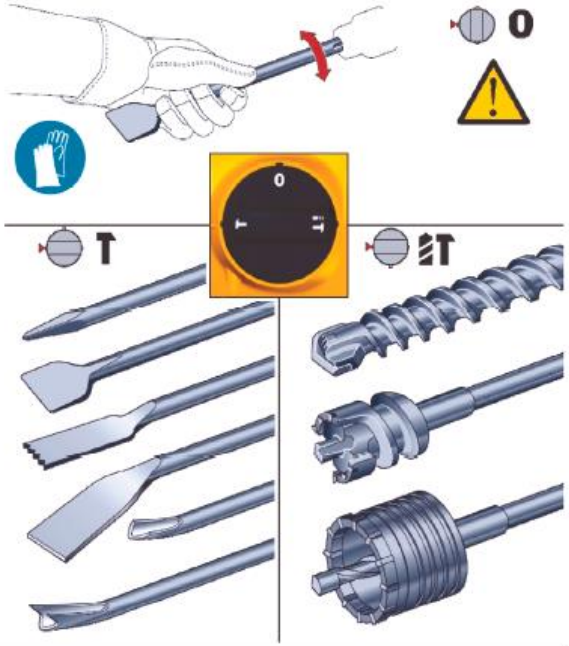
Phone 0508 443 247 | service@grammarelectrical.co.nz | www.grammarelectrical.co.nz

Function selector switch

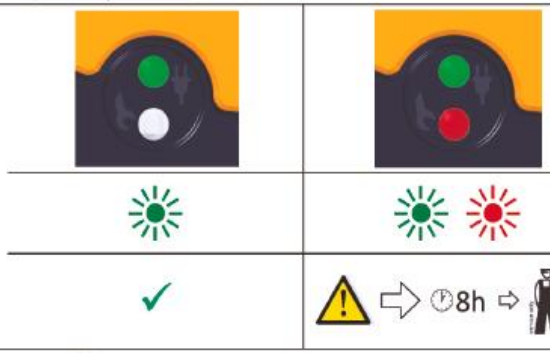


Start-up

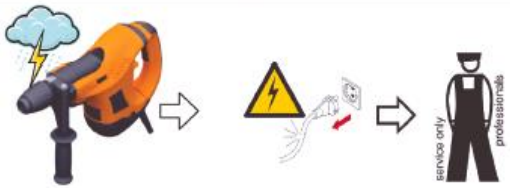
Auxiliary handle

Depth gauge

LED indicator



Maintenance



Keep venting slots clean!

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DynaDrill™ 566

6kg Combi Hammer

Ramset™

DynaDrill™ Corded Power Tools

Description

The Ramset™ DynaDrill™ 566 is a powerful and versatile Combi-Hammer designed to get through the toughest jobs with ease. The DD566 incorporates many new and innovative technologies such as vibration and rotation control which make the tool more comfortable and safer for the operator. This is the ideal tool for those that require high productivity and lifetime from a large Combi-Hammer.

Specification

Voltage	240V
Power Input	1,100w
Rated Speed	0-520rpm
Impact Rate	0-3,000bpm
Impact Force (Max)	6.5J
Maximum Drill Diameters	
Concrete	45 mm
Masonary (using Core Bit)	125 mm
Optimum Drilling Size in Concrete	18-38mm
Chiselling Positions	16
Weight	6.8Kg
Tool Holder	R3™ Max
Cable Length	4m

DynaDrill™ 566

Part No.	Description	Order Qty
DD566	6kg Electro Pneumatic Combi Hammer	1

Kit Includes: Shock proof case, lubricating oil and instruction manual 1x Carbide drill, 1x point chisel

Features & Benefits

- Powerful and robust 1,100W Combi Hammer provides extended tool lifetime under the toughest working conditions.
- Vibration damping systems built into the tool holder, rear and auxiliary handles deliver exceptionally low vibration values for a tool in this class.
- New Rotation Control system stops the tool immediately upon the drill bit jamming providing the highest level of safety for the operator.
- New one hand chuck system
- High removal rates, exceptional power to weight ratio
- An ergonomically designed and well balanced tool.
- Horizontal and vertical drilling level gauge for accurate drilling.
- Power LED indicator and service LED indicator

Trades & Applications

	Builder	Plumber	Electrician
Drilling into concrete	✔	✔	✔
Removing Tiles (light chiselling)	✔	✔	
Core Cutting	✔	✔	✔

Noise / Vibration Information

Sound pressure level:	93dB (A)
Sound power level:	104dB (A)

Wear ear and eye protection.
Vibration: The typical weighted acceleration does not exceed 8.2m/s² for drilling and 9.1m/s² for chiselling.

Related Products

Carbide Drill Bits, Chisels & Cores