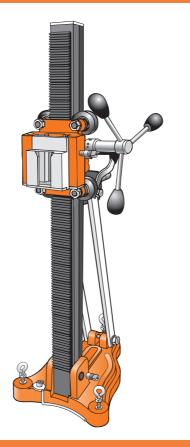
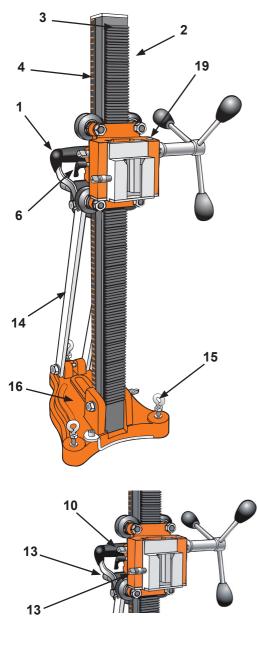
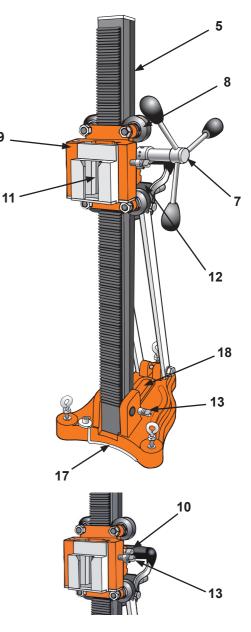


# Ramset TRIX 160



# Operator's manual and maintenance instructions







- Carrying handle
  Column
- 3. Upper stop
- 4. Depth adjustment scale 5. Angle adjustment scale
- 6. Carriage break handle
  7. Capstan wheel
- 8. Rollers
- 9. Carriage
- 10. Capstan wheel mount carriage
- 11. Quick release coupling
- 12. Sliding clamp

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- 13. Fixing bolts
- 14. Rear brace
- 15. Levelling screws
- 16. Vacuum base plate
- 17. Centre gauge
- 18. Fastening slot
- 19. Spirit level

#### **TECHNICAL SPECIFICATIONS**

Dimensions Weight Maximum drilling stroke Maximum drill bit diameter Recommended drilling diameter Usable inclination Transport inclination Carriage guide Carriage brake Capstan wheel with three arms Motor attachment Levelling 340 x 250 x 880 12 kg 850 mm 160 mm 130 mm 0° to 45° fully collapsed 4 rollers yes left and right mounting quick release coupling 4 adjustment screws

## CE Declaration of conformity

We hereby decare, under our sole responsibility, that this article conforms to the European standards for column-type drilling machines.



Paul van Beek General Manager

Ruben Bernaert Product Manager

#### Intended use

The TRIX 160 drilling rig is designed to be used with the SPIT SD 160 and SD 200E diamond drilling motors. Our equipment will fully and effectively meet all of your requirements if you read and observe the instructions in the operations and maintenance manual provided with the equipment.

SPIT refuses to accept any form of liability for injury or damage resulting from incorrect or improper use of the equipment.

ITW HEGER Industriepark Cardijnlaan 3 BE-8600 Diksmuide BELGIUM



In order to ensure safe use of the equipment, all screws and nuts, clamping handles, and other items used for clamping and locking must be securely tightened or fitted after each adjustment.







The capstan wheel can be fitted on the right (a) or left (b) side of the carriage, according to the circumstances.

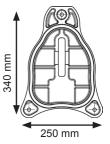
Check to ensure that the capstan wheel is securely attached.



#### SETTING-UP: FASTENING THE BASE PLATE

#### Fastening using an anchor plug in concrete

- Mark the centre point for fastening the base plate at a distance of 275 mm from the centre point of the bore, or use the centre gauge.
- 2) Drill a hole of Ø 15 mm for the Spit Grip M12 anchor plug. Insert and expand the plug.





- 3) Fit the quick-fastening screw, then place the base plate over the screw and align the stand assembly using the fastening slot.
- 4) Fit the washer and the quick fastening nut and tighten the nut using a 32 mm spanner.
- 5) Before and after tightening the nut, carefully level the stand using the three levelling screws and firmly tighten the 3 levelling screws.



#### CHECK TO ENSURE THAT THE RIG IS PROPERLY SECURED!!

For fastening to a material other than concrete, please contact us regarding the selection of a suitable anchor plug.



For this type of fastening, the material to be drilled must be smooth and flat, non-porous and free from cracks and reinforcements.

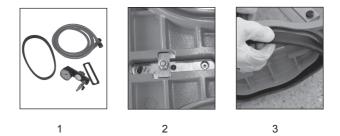
The maxiumum diameter to be drilled is 101 mm.

This type of fastening cannot be used if these conditions are not met.

For vacuum fastening, you must use a Spit vacuum pump and a Spit vacuum kit with manometer and seal (1).

Consult the manual of the vacuum pump regarding the use and maintenance.

- 2) Put the plate in the foreseen place on the back of the vacuum plate and fix the hexagonal nut.
- 3) Put the seal in the foreseen place.



- Place the rig on the floor. Connect the vacuum hose to the manometer and start the vacuum pump.
- 5) Adjust the 3 levelling screw.



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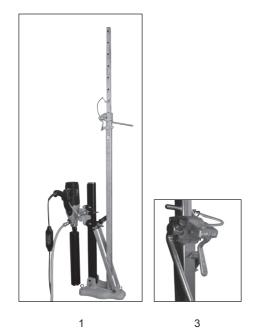
ONLY START DRILLING WHEN THE VACUUM IS MINIMUM 0.8 BAR!

NEVER USE VACUUM FIXING AGAINST WALLS OR CEILINGS! ONLY USE IT ON THE FLOOR!



#### Fastening using a telescopic brace clamp

- 1) Fit the telescopic brace clamp in vertical position between the ceiling and footplate. Make sure that the brace is as close to the column as possible.
- 2) Secure the telescopic brace clamp by using the lever handle to apply sufficient force to firmly secure the rig. After fitting the brace clamp, carefully level the rig by tightening the 3 levelling screws.
- 3) Fit the safety pin at the lowest possible position.



IT IS OBLIGED TO USE A WATER COLLECTOR WHEN DRILLING UPSIDE DOWN!

#### SETTING UP: ATTACHING THE DRILL MOTOR



- 1) Move the carriage to the upper stop and secure it in place using the knob.
- 2) Slide the carriage block into the carriage and lock it in place by using the capstan wheel to tighten the locking screw.
- 3) Place the dovetail connection of the motor in the quick release coupling and fix the motor with the capstan wheel.





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- 4) Select the correct machine speed.
- 5) While holding the capstan wheel in position, loosen the brake handle. Bring the crown of the drill bit in contact with the surface of the material to be drilled, then back it off by a few millimetres.
- 6) Open the water tap and adjust the water flow.
- 7) Switch the motor on. Consult the operation and maintenance manual for the SD 160 or SD 200E with regard to selecting the speed and other precautions. Start drilling. Drill slowly and cautiously for several millimetres after penetrating the surface, and then maintain a constant force on the capstan wheel for the remainder of the bore.

### ALWAYS SECURE THE CARRIAGE USING THE BRAKE HANDLE BEFORE RELEASING THE CAPSTAN WHEEL!!









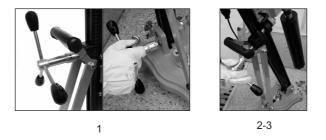
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#### SETTING UP: DRILLING AT AN ANGLE OF 0° TO 45°

1) Loosen the fixing bolts of the locking clamp with the capstan wheel.

2) Incline the column at the desired angle. Securely retighten the fixing bolt.



The depth (or length) of the bore is restricted when drilling at an angle. It will be necessary to use a bit extension.

#### MAINTENANCE

Always keep the rig clean, especially the column, the gear rack and the four rollers. Never oil or grease these three components.

For the best results, the rollers to move the carriage must travel perfectly along the column.

Adjust the rollers as follows:

- Using two flat 19 mm spanners, loosen each of the nuts on the side of the carriage marked "E".
- Retighten each of the nuts while ensuring that the hexagonal shafts are held in the previously determined positions.

Check the carriage for proper guidance and travel.

Oil the leveling screws of the base plate.



Dispose of your appliance, accessories and packaging in an environment-friendly manner.

NOTES





#### LOCATIONS

#### **RAMSET AUSTRALIA**

Victoria Mooroolbark 296-298 Maroondah Highway VIC 3138 Call 1300 780 063

Richmond 96 Church Street VIC 3121 Call 1300 780 063

New South Wales Silverwater 71 Carnarvon Street NSW 2128 Call 1300 780 063

Mascot 563 Gardeners Road NSW 2020 Call 1300 780 063

Newcastle Cardiff 77 Munibung Road Cardiff 2285 Call 1300 780 063

Australian Capital Territory Fyshwick 5/19 Tennant Street ACT 2609 Call 1300 780 063

Queensland West End 281 Montague Road Qld 4101 Call 1300 780 063

**Townsville** 153 Ingham Rd QLD 4810 Call 1300 780 063

South Australia Hilton 115 Sir Donald Bradman Drive SA 5033 Call 1300 780 063

Western Australia Welshpool 1/12 Colin Jamieson Drive Welshpool WA 6106 Call 1300 780 063



#### RAMSET NEW ZEALAND

Whangarei 2A Herekino St P.O. Box 133 Whangarei Phone 09 438 2010

North Shore 5J Miro Place, Albany P.O. Box 40-031 Auckland 0747 Phone 09 444 2354

Auckland 35 Station Rd, Penrose P.O. Box 12-327, Auckland 1330 Phone 09 579 3072

Henderson 123 Central Park Drive P.O. Box 83-135, Auckland 1330 Phone 09 838 9865

East Tamaki Unit 1, 333 East Tamaki Road P.O. Box 97823 Sth Auckland Mail Centre Phone 09 272 4701

Hamilton 15 Somerset St P.O. Box 1157 Phone 07 847 9047

Tauranga Unit 1, 15 Portside Drive Mt Maunganui Phone 07 572 0520

Rotorua Waterford Park Estate 50 Old Taupo Rd P.O. Box 855 Phone 07 348 0190

New Plymouth 25B Hurlstone Drive P.O. Box 4148 Phone 06 759 8984

Palmerston North 601 Tremaine Avenue P.O. Box 436 Phone 06 357 6745 Napier 124 Taradale Road P.O. Box 3374, Onekawa Phone 06 843 0067

Lower Hutt 46 Victoria St Phone 04 569 7247

Wellington 147 Taranaki St P.O. Box 3296 Phone 04 384 4138

**Nelson** 2 Parere St P.O. Box 1080 Phone 03 548 2664

**Christchurch** 7 O'Shannesey Place Phone 03 341 8710

Dunedin 5 Melbourne St P.O. Box 2227 Phone 03 455 1134

Queenstown 200 Glenda Drive, Frankton Queenstown P.O. Box 2469, Wakatipu Phone 03 442 8073

Invercargill 121 Clyde St P.O. Box 673 Phone 03 218 9241

ITW Construction Systems Australia Pty. Ltd. 296-298 Maroondah Highway Victoria 3138 Australia