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FACT SHEET

Atlas Copco

DIAMEC® 262 EC

Core drilling rig for underground operations

LEVEL 1 - B-BBEE

www.geogroup.co.za





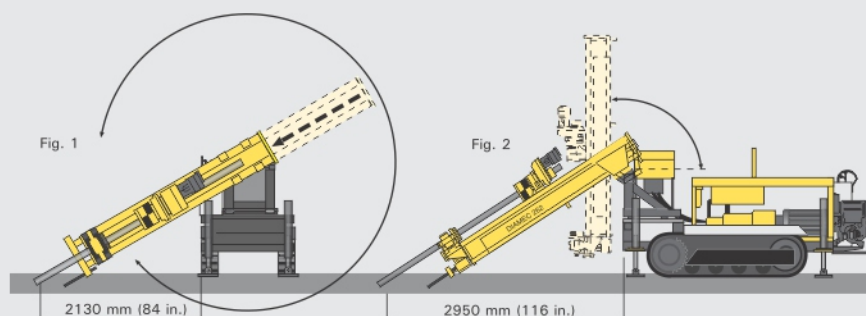
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About The Rig

The DIAMEC® 262 EC is a trailer mounted rig designed for underground subsurface geotechnical and exploration drilling investigations with a variety of core barrel sizes to suit your needs. It affords easy mobility in underground conditions and environments. It is fully compatible with operations running 520 Volt infrastructures. Making it ideal for your operation.

6 Benefits to Improve your Drilling Effectiveness

- **Safe and fast rod handling.** Automatic synchronisation between chuck and rod holder.
- **A choice of three rotation units to ensure optimal torque and speed.** Easy to convert from one to the other. Easy to adapt for different diameters and geological conditions.
- **Simple and reliable chuck.** Very few moving parts, widely adjustable gripping force, easy to service. 76 mm (N-size) core barrels pass through the chuck spindle, 131 mm core barrels through the rod holder.
- **Double feed cylinders.** For quick rod handling at all depths. Can be set for slow feed, high force (two active cylinders) or high speed, low force (one active cylinder).
- **Drill in any direction (See Fig. 1,2 and 3)** Standard equipment includes a manually operated turntable and worm gear. For easy positioning an optional hydraulic powered worm gear is available. Strongly recommended when the drill rig is fitted with Feed version 3300.
- **Simple, robust power unit with a double hydraulic pump.** Double pump permits independent regulation of feed and rotation. Equipped with a power take-off for driving a flush pump. Easy access for maintenance.



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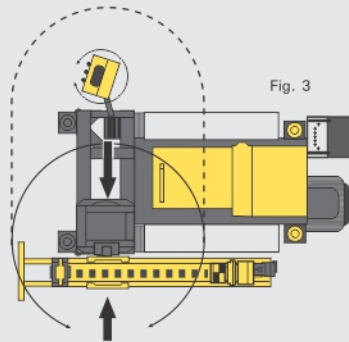


Fig. 3

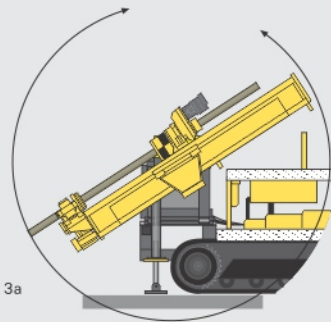


Fig. 3a

1 800mm Stroke Lengths

Our EC 262 unit offers 1 800mm stroke lengths. The feed movement is achieved by two hydraulic cylinders and chain system.

It is possible to select between high speed/low force or slow speed/high force by activating one or both feed cylinders.

Technical Specifications

DATA, FEED VERSION	1800
FEED LENGTH	2 920 mm 115 in.
FEED RETRACTION (A)	Å1 800 mm
FEED FORCE	65 kN 14 300 lbf
PULL FORCE	65 kN 14 300 lbf
ROD RUNNING SPEED	
LOW SPEED	0.5 m/s 1.65 ft/s
HIGH SPEED	1.0 m/s 3.3 ft/s



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A Choice of 3 Rotation Units

Consists of a hydraulic motor, a gear box, a hollow spindle and an Atlas Copco patented hydraulic chuck. Rotation is transmitted via the gear box to the chuck that, by hydraulic pressure, grips and rotates the drill rod.

The chuck and the rod holder are synchronized by an integral sequential logic system for safe and easy rod handling.

The rotation unit can easily be swung aside for off-hole clearance. Rotation speed and axial holding force of the chuck are adjustable from the control panel. Easy conversion between: Standard > High torque > Heavy duty rotation units.

Technical Specifications

ROTATION CHARACTERISTICS	STANDARD	HIGH TORQUE	HEAVY DUTY
SPEED RANGE LOWER GEAR	0-2 200 rev/min 0-1 700 rev/min	0-900 rev/min -	0-600 rev/min -
SPINDLE INNER Ø	78 mm	78 mm	78 mm
CHUCK AXIAL HOLDING FORCE	100 kN 22 000 lbf	100 kN 22 000 lbf	100 kN 22 000 lbf
MAXIMAL TORQUE	700 Nm 510 lbf.ft	1 350 Nm 990 lbf.ft	2 000 Nm 1 475 lbf.ft

A Reliable Easy-to-Operate Rod Holder

Rod holder of hydraulic mechanical type. Holding force is achieved by a spring set and is released by hydraulic pressure.

DATA

Maximum Rod Size	-	114mm (4,5 in.)
Bore without jaws	-	132 mm (5,2 inc)
Axial Holding Force	-	22kN (4 840 lbf)
With TC inserts	-	33 kN (7 260 lbf)

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Power Unit 45E with Double Hydraulic Pump

The power unit has two variable-flow hydraulic pumps, mounted in tandem. They are integrated in the hydraulic system in such way as to adjust their output to the power requirements of the drill unit in an efficient way. Connections for an optional hydraulic driven flush pump are standard. Supplied complete with 250 litre oil tank, oil cooler and filters. The power unit is powered by an asynchronous electric motor.

Technical Specifications

MOTOR RATING

55 kW (74 hp) at 1 450 rpm

MOTOR PUMP

FLOW

75 l/m

(19,8 gpm)

PRESSURE

260 bar

(3 770 psi)

SERVICE PUMP

FLOW

29 l/min

(7,4 US gpm)

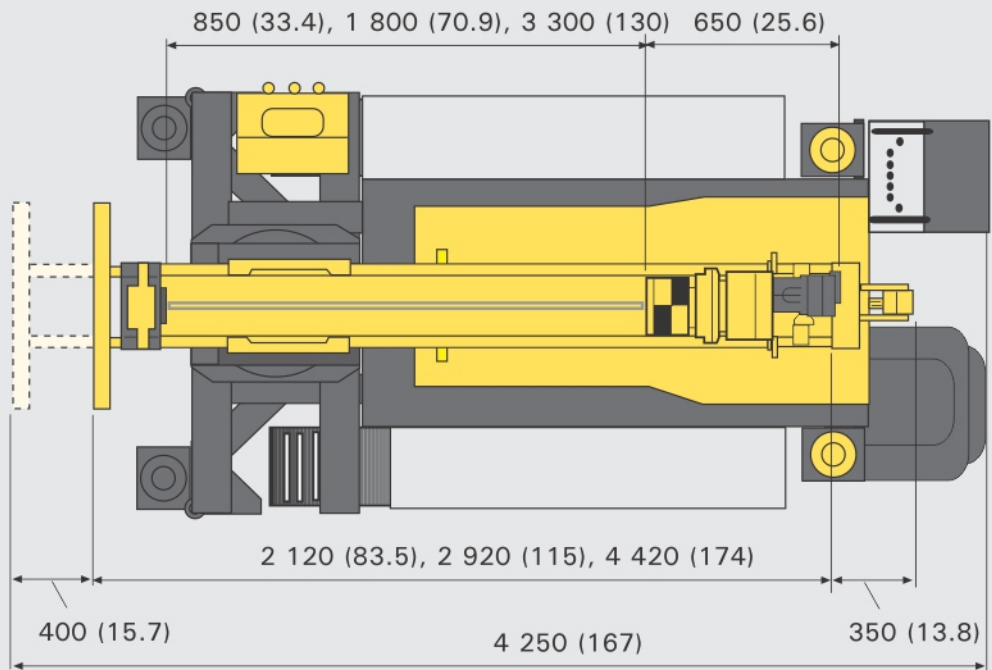
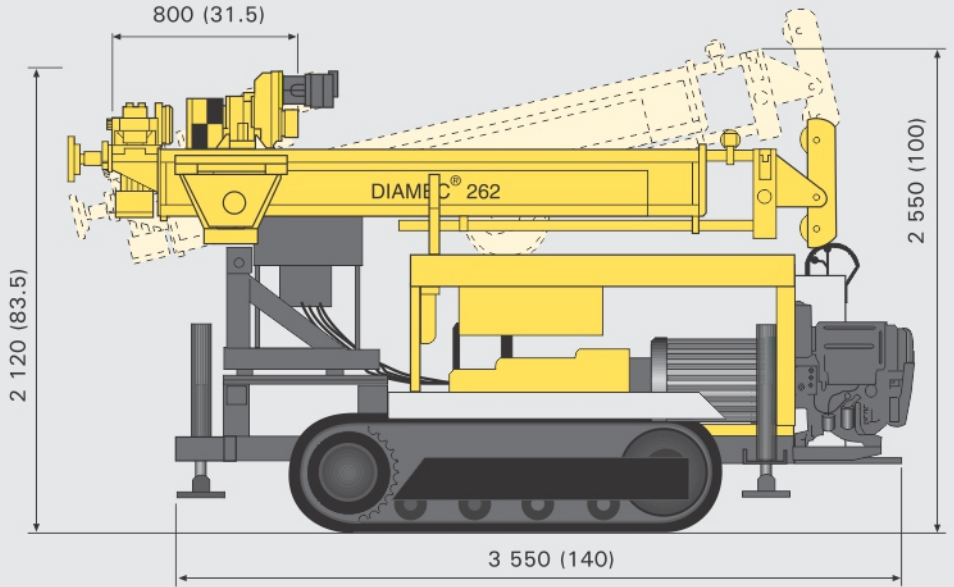
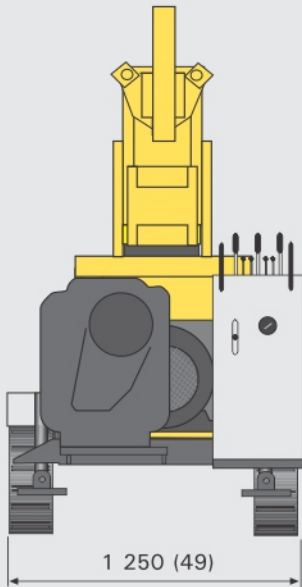
PRESSURE

210 bar

(3 045 psi)



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About Geomech Africa

Geomech Africa (Pty) Ltd is an industry leader in the geotechnical investigations in Southern Africa. Providing drilling and testing services to the minerals exploration market, as well as geotechnical and civil industries in and around Southern Africa and Africa.

Geomech Africa has long-term policies of developing operational/maintenance staff and upgrading equipment, to ensure that geotechnical investigations conducted for our clients are accurate, timely, cost effective and easily interpreted.

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The GeoGroup



GeoGroup comprises of a group of companies, each a leader in it's own field, providing a range of services to the geotechnical, civil, mining and energy industries.

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