

# Sandvik DE710

## heavy duty core drill



### TECHNICAL SPECIFICATION

The DE710 is a powerful and space efficient mid size coring drill with a heavy duty base frame design. It is the most versatile drill in its class and it is available in a range of configurations to suit global operational and environmental demands. Due to the efficient layout of DE710 it can be configured to suit different transport applications and can be packed for shipment in a standard 40 ft shipping container. The 8,9 m (29.2 ft) long drill mast has a capacity to angle drill between vertical to 45° and lowers to a supported position for transportation. The DE710 can be found all around the world in different kinds of applications such as in mineral exploration drilling, directional drilling and geotechnical drilling.

DE710 TS 003ENG/2011

### Main specification - DE710

Rotation head	Hollow spindle chuck drive, P size standard	
Pull back	91,2 kN	20 000 lbf
Pull down	53,2 kN	12 000 lbf
Depth capacity*	1126 m (N)	3693 ft (N)
Rod pull capacity	6 m	20 ft
Engine power at 2200 rpm	134 kW or 130 kW	180 hp or 174 hp

\* Calculation is based on feedback from field operatives and can be reasonably expected with vertical, water filled holes, by a well-trained drilling crew using high quality drilling tools. Sandvik cannot guarantee that these results will be achieved in all drilling conditions.



## TECHNICAL SPECIFICATION

Power pack	
<b>Diesel engine make</b>	John Deere JD6068TF250
<b>HP rating</b>	134 kW (180 hp) 130 kW (174 hp)
<b>RPM</b>	2200 rpm
<b>Emissions rating</b>	Non emissions rated

Traverse system	
<b>Type</b>	Hydraulic cylinder direct coupled to rotation head
<b>Pullback</b>	91,2 kN (20 500 lbf)
<b>Pull down</b>	53,2 kN (12 000 lbf)
<b>Head traverse stroke</b>	3,45 m (11'3")
<b>Traverse speed</b>	30 m/min up and down (100 ft/m)

Rotation head	
<b>Type</b>	Hollow spindle chuck drive, P size standard
<b>Rotation torque</b>	1454 Nm (1069 ft/lbf) low gear/ 475 Nm (349 ft/lbf) at 1500 rpm high gear
<b>Rotation speed</b>	100 - 1500 rpm 2 gears
<b>Hydraulic motor</b>	Variable displacement

Main winch	
<b>Pull capacity (single line)</b>	76,6 kN (17 200 lbf)
<b>Winch speed</b>	55 m/min (180 ft/min)
<b>Rope size</b>	14 mm (9/16")

### Depth capacity

Standard rods	
<b>P</b>	509 m (1670 ft)
<b>H</b>	754 m (2473 ft)
<b>N</b>	1126 m (3693 ft)
<b>B</b>	1440 m (4723 ft)
<b>A</b>	1841 m (6038 ft)

These calculations are based on feedback from field operatives and can be reasonably expected with vertical, water filled holes, by a well-trained drilling crew using high quality drilling tools. Sandvik cannot guarantee that these results will be achieved in all drilling conditions.

Wireline winch	
<b>Pull capacity</b>	7,8 kN (1750 ft/lbf)
<b>Rope capacity</b>	1000 m x 5 or 6 mm (3280 ft x 3/16" or 1/4")
<b>Maximum speed</b>	270 m/min (887 ft/min)

Water pump	
<b>Water flow</b>	140 l/min (37 USgpm)
<b>Maximum pressure</b>	7000 kPa (1000 psi)

Rod clamps/slips	
<b>Size range</b>	44,5 mm to 177,8 mm jaws (1 3/4" to 7")

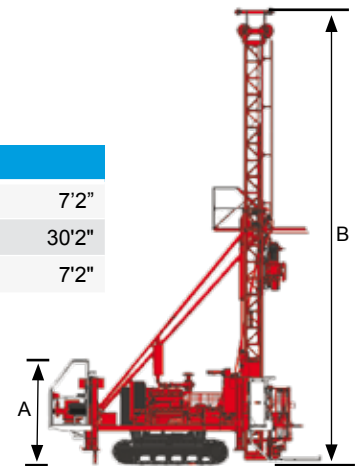
Mounting configurations	
Truck, crawler or skid mount configurations	

Options	
DA512 Safety spin	
Mast platform	
High altitude boost system	

Weight	
<b>Basic rig*</b>	7200 kg (15 875 lb)
<b>Truck</b>	6000 kg (13 228 lb)
<b>Crawler tracks</b>	1700 kg (3748 lb)

\*Approximate weight for bare drill on hydraulic jack-up tray

Dimensions		
<b>A</b>	2,25 m	7'2"
<b>B</b>	9,1 m	30'2"
<b>Width</b>	2,2 m	7'2"



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Sandvik Mining and Construction represents one third of the overall Sandvik Group and serves a broad range of customers in construction, mineral exploration, mining and bulk materials handling. Our construction expertise covers quarrying, tunneling, demolition and recycling, and other civil engineering applications. Our mining products and services support customers on the surface and under ground, in all mineral, coal and metal mining applications from exploration to ore transportation.

