



DOSCO OVERSEAS ENGINEERING LIMITED

SHAFT SINKING MACHINE



SHAFT SINKING MACHINE at work in DUBAI

| SHAFT SINKING MACHINE OUTLINE DATA | TYPICAL SPECIFICATION |
|---|------------------------------------|
| Shaft Size | From 3.5 m to 6.0 m i/dia |
| Depth of shaft | Up To 20 metres |
| Machine Weight | 41 tonnes (5.9 m i/d shaft) |
| Hydraulic System Power Pack - Portable | Electric |

ADVANTAGES

- Suitable for Excavating ground up to 60 MPa
- Can work submerged under water
- Economical and Robust
- Quick and Efficient
- Rapid assembly and Dismantling
- Easily transported



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The Dosco 5.9 m Shaft Sinking Machine can excavate shafts in water bearing strata with ground strengths up to 60 MPa. The equipment can work fully submersed in sea water to a depth of 20 m (i.e. 2 bars water pressure).

The machine has been designed for rapid assembly/dismantling to keep moving times to a minimum.

It comprises of two main structures:-

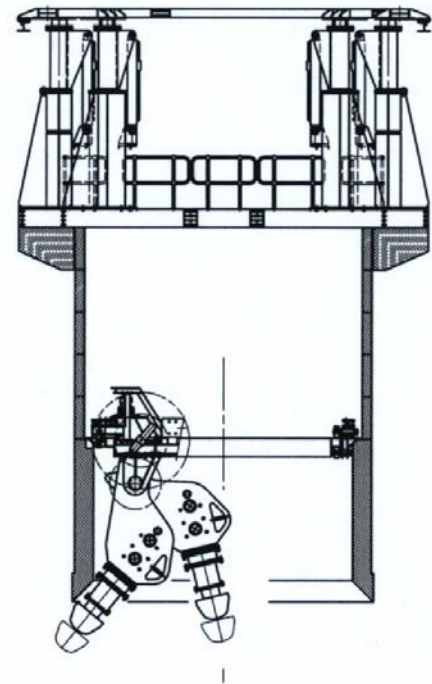
1) Upper support / thrust frame.

This is made up of six main pieces when fully dismantled, it is normally broken down into two halves which can be transported on a low loader flat back lorry.

2) Rotary cutting unit.

This comprises a circular frame which hydraulically clamps to the leading section of the cason, this supports an inner rotary ring which carries the cutting boom. The inner ring is hydraulically rotated through 360 degrees by two high torque slow speed motors.

The ground is excavated by a Dosco hydraulic axial boom rated at 110 kW, the boom movements being automatically computer controlled.



Technical Specification

Shaft size

5.9 m i/dia lining

Hydraulic Power Packs

One number pump supplying the following functions:-

Traverse Rams

40 l/min @ 210 bars

Cutting Head Drive

140 l/min @ 280 bars

One number pump supplying the following functions:-

Cutting Head Drive

140 l/min @ 280 bars

Rotate Motors & Shove Rams

40 l/min @ 280 bars

Document Issue 1 Revision 2 05/08/03

PLEASE NOTE – Data is intended as a guide only as machines may vary according to specification requirements.



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