



DOSCO MINI BOOM



Dosco Mini Hydraulic Boom

The Dosco Mini Boom is designed to fit into small diameter shields to replace hand excavation in soft to medium strength grounds up to 30 Mpa.

HYDRAULIC BOOM OUTLINE DATA	TECHNICAL SPECIFICATION	
Cutting Head Drive	Hydraulic	
Cutting Head Power	41 kW	
Speed	90 rpm	
Pick Force	22 kN	
Cutting Rates	10 MPa	30 MPa
Instantaneous cutting rate	20 m³/hr	8 m³/hr
Cutting and loading rate	10 m³/hr	4 m³/hr

The Mini Boom is ideally suited to excavate stiff clays, weak mudstones, shalestones and mixed faces with cobbles providing the face has sufficient stand up time and no large inflows of water.



**YOUR PARTNER
FOR ALL ROUND QUALITY AND RELIABILITY**



The Dosco Mini Boom comprises of the following units:-

- 1) Axial Cutting Head
- 2) Cutting Head Shaft
- 3) Telescopic Boom Arm
- 4) Profile Guidance System.

Axial cutting head

This is designed to cut the required profile of the tunnel, it is fitted with replaceable pencil type point attack picks held in position by heavy duty pick boxes welded to the cutting head fabrication.

Cutting Head Shaft

This is a fabrication which houses the cutting head drive shaft.

Telescopic Boom Arm

The telescopic arm is hydraulically actuated by a cylinder located inside the boom arm thus enabling the cutting head to reach forward of the shield body.

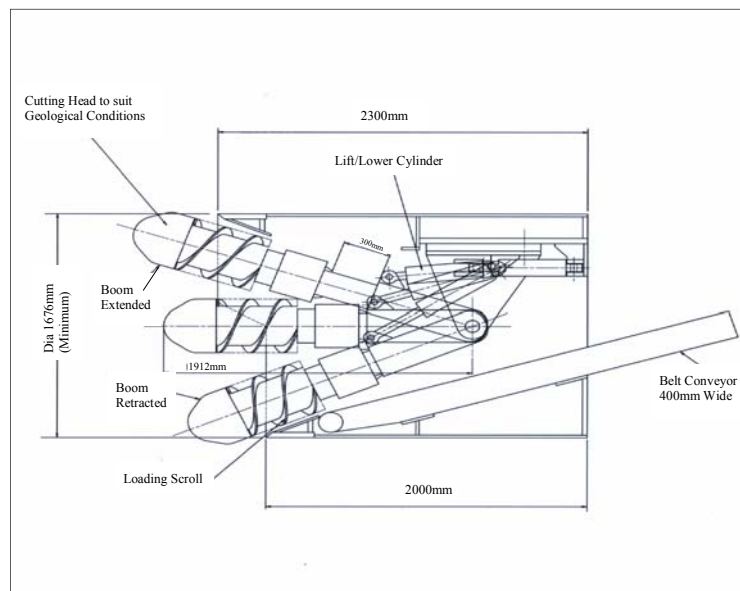
Hydraulic cylinders rotate the boom about the rear pivot and slew ring bearing, thus allowing the cutting head to fully cover the whole tunnel profile.



Dosco Mini Boom in Cut

Profile Guidance System

The Dosco Mini Boom control system consists of a collection of electronic modules, position transducers and electro-hydraulic valves designed to give fully automated profile cutting or guided manual cutting control.



Document Issue 1 Revision 1 17-08-99

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



DOSCO OVERSEAS ENGINEERING LTD

Ollerton Road, Tuxford, Newark Nottinghamshire, NG22 0PQ England

Telephone: + 44 (0) 1777 870621 Facsimile: + 44 (0) 1777 871580

E-mail: info@dosco.co.uk Website: www.dosco.co.uk



A member of the Amco Corporation Plc group of companies.

