



STATION SHIELD BACKHOE/HAND SHIELD



STATION SHIELD during function testing

STATION SHIELD OUTLINE DATA	TYPICAL SPECIFICATION
Outside Diameter	From 8 m to over 12 m
Total Power (Standard Machine)	From 180 kW
Hydraulic System Working Pressure	350 bar (push rams 210)

- ADVANTAGES**
- Open face, with selectable face protection, allowing all round access
 - Ability to selectively excavate varying strata

Dosco Station Shields are designed and built to the contractors specifications utilising the flexibility and adaptability of Dosco's technical and manufacturing facilities.

The Station shield shown above is a 9 metre diameter segmental unit, facilitating erection and dismantling within the tunnel. A sacrificial skin is also incorporated to enable reuse of the main machine body. 31 hydraulic rams around the periphery are used to advance the shield. The tunnel lining segments used were 1 metre wide weighing 330 kg each, with 20 making a complete 9 metre outside diameter SGI bolted ring.



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FOR ALL ROUND QUALITY AND RELIABILITY**



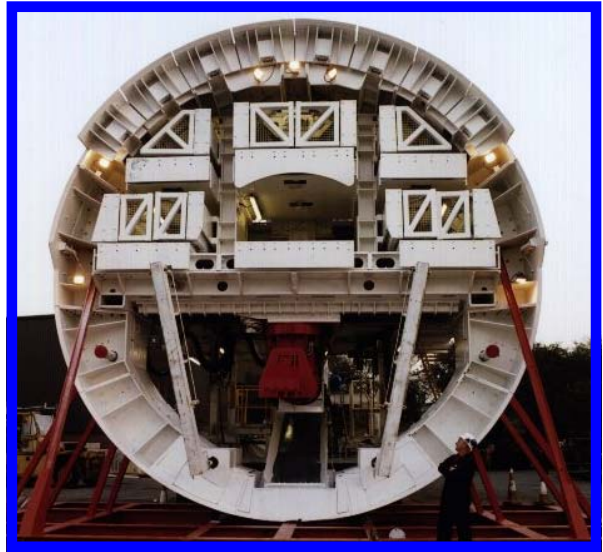


STATION SHIELD triple work decks permit shorter launch tunnels

OPTIONS include:

- **Profile Control Guidance Systems** - electronic control of profile cut eliminating overbreak and reducing driver fatigue.
- **Dust Extractor** – on board equipment to remove dust from heading
- **Ring/Segment Erector**
- **Grouting Equipment**
- **Closed Water Cooling System**

The method of excavation is by hand in the top half and the backhoe is used to load out and excavate the bottom half. Material is transported from the work face by a 1 m wide belt conveyor in the tunnel invert. This conveyor commences in the toe of the tunnel shield, passes through the machine and then discharges into a bunker or skips.



STATION SHIELD front view showing removable face timber supports



STATION SHIELD initial installation



STATION SHIELD rear view in lined tunnel

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



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