

# Scraper Conveyors

## EXTRA SECURITY WHERE IT'S NEEDED



**DON VALLEY  
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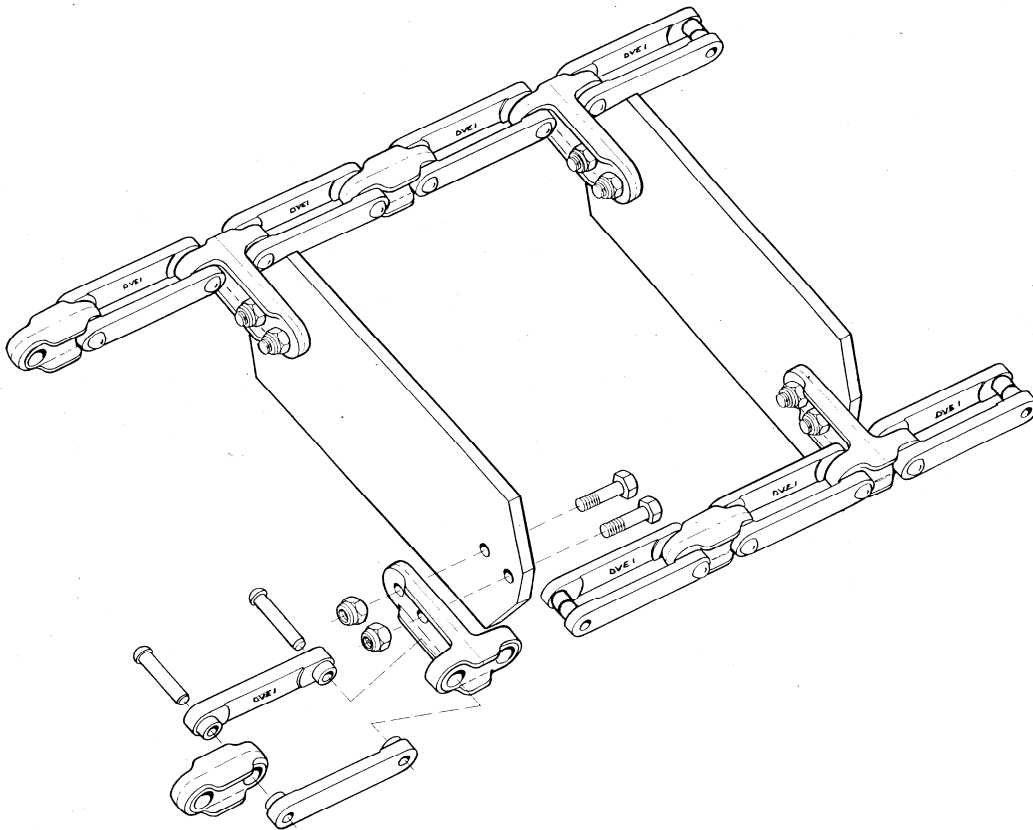
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### ADVANTAGES OF SCRAPER CONVEYORS

- No spillage or dust problems.
- Mixing and blending of material conveyed.
- Hot, sticky or abrasive material easily handled.
- Conveying angles up to 45°.
- Submerged operation is no problem.
- Facilitates bunker extraction and proportioning distribution.
- Low headroom requirements.



**ECIA**

Engineering Construction  
Industry Association

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CERT. NO 6204

The Don Valley Mk1 Chain is a positive improvement over traditional design, and has resulted from many years practical experience, designing and building scraper conveyors plus an extensive knowledge of the operational problems associated with the transportation of bulk materials where particularly arduous conditions exist.

Mk1 Chain offers the following advantages to the user :-

**Forged Cross Bar Connecting Links** form an integral part of the chain and provide a strong and reliable connection to the flights, eliminating the possibility of weld failure at this critical point.

**Easily Replaceable Cross Bars** are tailored to suit individual requirements. These are bolted direct to the forged connectors with High Tensile Bolts and Locknuts. The interfaces of the mating surfaces can also be chemically bonded together during assembly to provide enhanced security.

**Rationalisation of Spares.** Capital outlay and replacement costs are minimised since :-

- Chains and Connectors are symmetrical and not handed. Provided that the Cross Bar pitch is constant, a single strand of chain held in stock will serve as a spare for any number of conveyors regardless of flight bar length or design.
- In the event of localised damage, the individual component can easily be replaced.
- Assembled lengths of chain are connected on site by cold riveting, bolting or Huck connection.

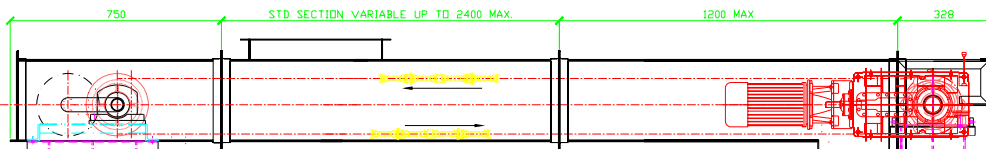
**Cross Bar Fixing Kits** with full instructions are available to enable the customer to undertake refurbishment or repair work.

**CHAIN SPECIFICATION**

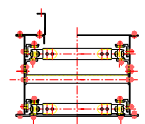
- All links and connectors are drop forged in 0.4% Carbon Steel to BS4114:1967.
- Working load equals 7.5 Tonne per strand with a Breaking Load equal to 30 Tonnes per Strand.
- Cross Bar Connectors may be provided at any pitch in multiples of 216 mm (8.5 inches).
- Mk1 Chain can be supplied complete with cross bars or as a matched single strand.
- Don Valley Engineering also manufacture complete **Scraper Conveyors** to Customers Requirements.



Typical photographs of an assembled chain before and after installation into a scraper conveyor

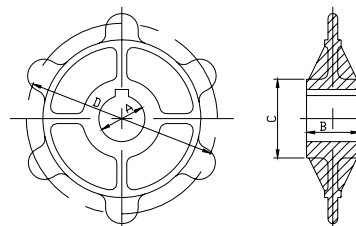


Typical scraper conveyor with drive, tail, loading and intermediate sections.



Typical half sections through scraper conveyor at loading and intermediate sections.

TYPE	A	B	C	D (P.C.Dia.)
6 TOOTH	100 (Max.)	125	165	418
9 TOOTH	100 (Max.)	125	254	676
All Dimensions in Millimetres				



Sprockets available with teeth cast integral. Single flanged return rollers. Drive / tension shafts. C.I. plummer blocks with brass / bronze bushes. Medium / heavy duty split roller bearings. Wear strips for chain tracks in special hard steel.

Prices on application.

