

Power Trof II Conveyor

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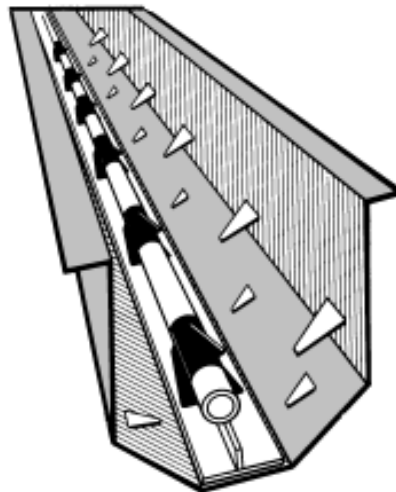
Mayfran Power Trof II

For Reliable, Low-Cost Swarf Removal Over Short Or Long Distances

Mayfran's versatile Power-Trof® II trough type conveyor handles both loose and bundled metal chips, fines, curls, turnings or strings, as well as coolant, over short or long distances. It can economically handle large or small quantities of swarf.

An efficient series of one-piece, cast iron plows, powered by a solid pusher bar, transports material through the trough by means of reciprocating action.

Power-Trof II is designed for smooth, trouble-free operation, easy installation and maintenance, plus maximum durability for longer service life.



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SPECIFICATIONS

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Trough

- **ABRASION-RESISTANT GUIDE TRACK.** Longer service life. Easily replaceable.
- **HEAVY DUTY WALL BARBS.** Prevent swarf from moving backwards during retract stroke.
- **OPTIONAL SIDEWALL COOLANT GUTTERS.** Available for extremely high flow rates.

Plow

- **ONE-PIECE, CAST IRON DESIGN.** Lasts longer than steel types.
- **SELF-ALIGNING PLOW.** Limited articulation about pusher bar axis provides stress-free relationship with guide track.
- **PREVENTS SWARF BUILDUP.** Plow wedge stays flat on trough bottom, continually wiping swarf from guide track.
- **MINIMIZES MAINTENANCE COSTS.** Plow slip-fits over O.D. of pusher bar, without welding.

Pusher Bar Assembly

- **STREAMLINED COUPLING.** Eliminates swarf pullback. Coupling disassembles easily, with simple hand tools.
- **SPACER SLEEVES.** Slip-fit over pusher bar O.D. to space the plows. These allow easy adjustment of plow spacing.
- **SOLID PUSHER BAR FLOATS ON GUIDE TRACK.** Aided by slotted plow, preventing side wall wear from off-center loading.

Drive System

- **HYDRAULIC POWER PACK.** Completely factory assembled and tested.
- **TROUGH-MOUNTED HYDRAULIC CYLINDER DRIVE MODULE.** Complete with cylinder, fixed bulkhead, limit switches. Prepped and prewired.
- **SOLID-STATE ELECTRICAL SYSTEM.** Features adjustable stroke frequency and anti-jamming circuitry.
- **BYPASS FOR MANUAL PUSHER BAR CONTROL.**
- **INDIVIDUAL HYDRAULIC POWER PACK.** Standard for each Mayfran Power-Trof II.
- **ONE HYDRAULIC POWER PACK FOR MULTIPLE CONVEYORS.** Optional.
- **PROGRAMMABLE CONTROLLER.** Also available.

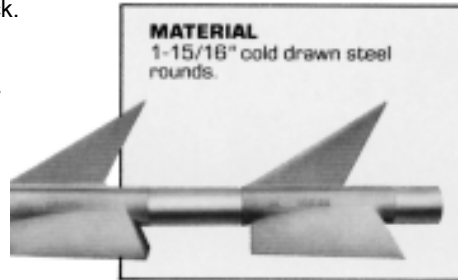
Installation

- **EASILY INSTALLED.** Requires far less sensitive alignment than captive, slotted tube designs.
- **LEVEL OR SLOPED PITCH.** Trough can be sloped to ensure positive coolant drainage.
- **PLACEMENT/MOUNTING VERSATILITY.** Can be installed below or above floor. Also can be cast in place, self supported or hanger suspended.
- **FACTORY ASSEMBLED.** Supplied in twenty-foot matchmarked lengths with bolted splice flanges.

MATERIAL Formed 7ga. mild steel plate.	WALL BARBS Two staggered rows on each side wall for turnings. Approximately 20" linear spacing between barbs. Wedged stops may be used for cast iron and fines applications.
SHIPPING LENGTHS 20' sections with flanged splices to aid field alignment. Temporary braces for shipping and installation stability are standard.	GUIDE TRACK 3/8" thick abrasion-resistant wear plate with 3/8" x 1-1/2" vertical guide bar.
CROSS SECTION Widths from 12" to 36," sloped 55° from flat bottom to vertical sides.	



MATERIAL Cast iron, with nickel alloy additive for increased wearability.
SOLID BOTTOM WEDGE Large track contact area reduces bearing stresses.
GUIDE SLOT Plow is slotted to engage guide track.



MATERIAL 1-15/16" cold drawn steel rounds.	SHIPPING LENGTHS 20' sections
	COUPLING 2- 5/8" O.D. sleeve, connected to pusher bar by four hardened, grooved steel pins.
	SPACER SLEEVES Round mechanical steel tubing 2-1/2" O.D. x 2" I.D. to allow 20" or 40" plow spacing*

HORSEPOWER 3 or 5 H.P. are standard.*	CYLINDER 3-1/4" bore*
STROKE 36" or 60" extension/retraction*	DRIVE AREA LENGTH 9' or 14' of first 20' section dependent upon stroke.*

*Exact specifications will depend on system size and capacity.

