

ESSMUELLER

MODEL "FB" EN MASSE DRAG-FLITE CONVEYORS

Sizes to Accommodate
Capacities Thru 32,000 BPH



NOTE: Cover must be on during operation. Cover removed in photo to show construction details.

SPROCKET IDLER RETURN SYSTEM

An Essmueller first! Permits faster operating speeds, smoother delivery of product. Reduces friction to a minimum, prolongs parts life.



1.800 KC SUPPLY (527.8775)
www.kcsupply.com

Phone 816.753.7676
email: kcsupply@kcsupply.com

Fax 816.753.0444

DRAG CONVEYOR

THE POWERFLOW[®] COMPONENTS

INLET — field fabricated
or custom manufactured
to fit application.

TROUGH — available in
types 1, 2 & 3 — standard
weather tight cover
supplied

STANDARD TAIL
SECTION — Take-up
style with detector.
Take-up only is
optional.

OPTIONAL BOX
TAIL SECTION — contoured
for self cleaning. Available
with limited movement
detector option.

STANDARD BOX
HEAD SECTION — used with
Take-up Tail or Detector
Tail. Available with optional
plugged discharge switch.

CHAIN — Style is determined
during model selection. All
have UHMW attachments to
eliminate steel to steel
contact. Reclaim cups
required when an end
discharge gate is used.

OPTIONAL HEAD
SECTION — used with
Contoured Tail section
only. *ASK FOR DETAILS.*
Available with plugged
discharge switch.

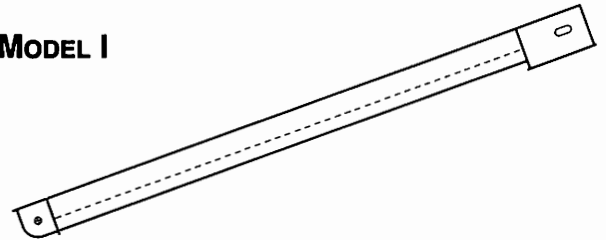
OPTIONAL INTER-
MEDIATE DISCHARGE —
for free flowing materials
only. Usually field installed.
Many types of operators
available. **DOES NOT REQUIRE
CARRY OVER BARS.**

Conveyor Models & Applications

The INCLINE styles available consist of four specific models to suit your particular requirements.

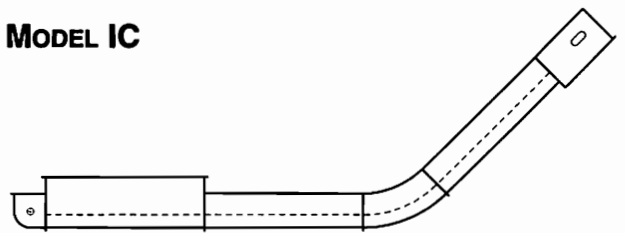
Model I conveyors are used when you can use a straight conveyor and your angle of incline is between 10 to 50 degrees. They are commonly used on the sloped pitch of a bin top or anywhere the angle is too great for a standard type of drag conveyor.

MODEL I



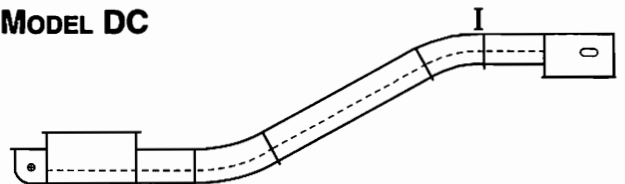
Model IC conveyors are used when you want to convey material horizontally for a certain distance and then curve the conveyor up at angles of 50 degrees or less. These are commonly used for truck or rail receiving where you want to eliminate having the boot of a bucket elevator in a pit. They are also used to gain extra hopper capacity by having a deeper hopper without having to also lower the inlet point of the equipment you are feeding into.

MODEL IC



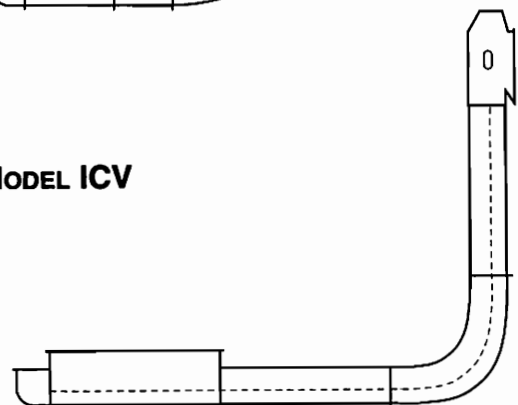
Model DC conveyors are used when you want to convey material horizontally for a certain distance, then curve the conveyor up at inclines up to 90 degrees and then reverse curve back to an incline of 50 degrees or less. These would be also be used in places that you would select the above 'IC' conveyor but have to clear an overhead or ground obstacle that you cannot clear with just one curved section.

MODEL DC

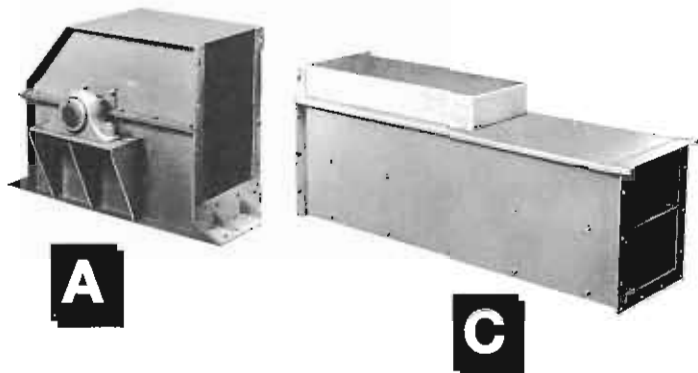


Model ICV conveyors are used when you want to convey material horizontally for a certain distance and then curve the conveyor up at inclines from 51 to 90 degrees. These would be used in places that you would select the above 'IC' conveyor but need the steeper incline ability.

MODEL ICV



Enduro - Flo Drag Conveyors



A

C

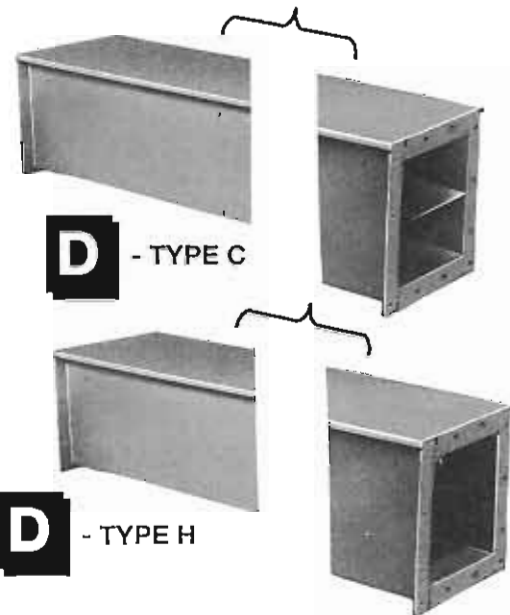
A Drive Terminal Features Include:

- Split Housing Construction for ease of maintenance. Shaft, sprocket, and bearings lift out.
- Pillow Block Bearing Construction – Bearings are away from the terminal housing.
- UHMW Drive Shaft Seal Plate eliminates dust.
- Fixed Position Head Shaft eliminates drive adjustment.
- Large Diameter Sprocket increases chain life.
- Optional Sloped Front Hood Plate for inspection or relief overflow door available.

B Tail Terminal Features Include:

- Split Housing Construction for ease of maintenance. Shaft, sprocket, and bearings lift out.
- Bearing Take-Up Stand keeps bearings away from terminal housing.
- UHMW Lined Take-Up Seal Plate slides easily.
- Large Diameter Sprocket increases chain life.

C **Bonnet Cover Trough Sections**
These sections are used at the first section out of both the head and tail sections. They are necessary on the Enduro-Flo™ Drag Conveyor because of the larger diameter sprockets. This gives the head and tail a higher profile than the trough or conveying sections. The bonnet provides space for the paddles and chain until they ride on the return system of the conveyor troughs. The bonnets are used on both Type C and Type H conveyors.



D - TYPE C

D - TYPE H

D **Conveyor Trough Sections**
These sections are a totally new exclusive Screw Conveyor Corporation box beam construction design. The trough sides have a double break at the bottom which greatly increases the longitudinal strength.

The trough bottom is broken downward on both sides and allows the bottom to seal to the trough sides. The bottom is fastened with only four bolts per side. This configuration adds an additional thickness of metal to the longitudinal structure allowing longer span lengths without support.

Enduro-Flo troughs are available in Type C and Type H configurations.

The Type C Trough is Compartmentalized.
A compartment is fitted into the top of the trough and creates two equal compartments. The top compartment acts as a chain and flight return and a controlled loading device. The bottom compartment carries the product to its destination. 10 gauge is used for 12" and 18" units —3/16" thick for 18X to 24X.

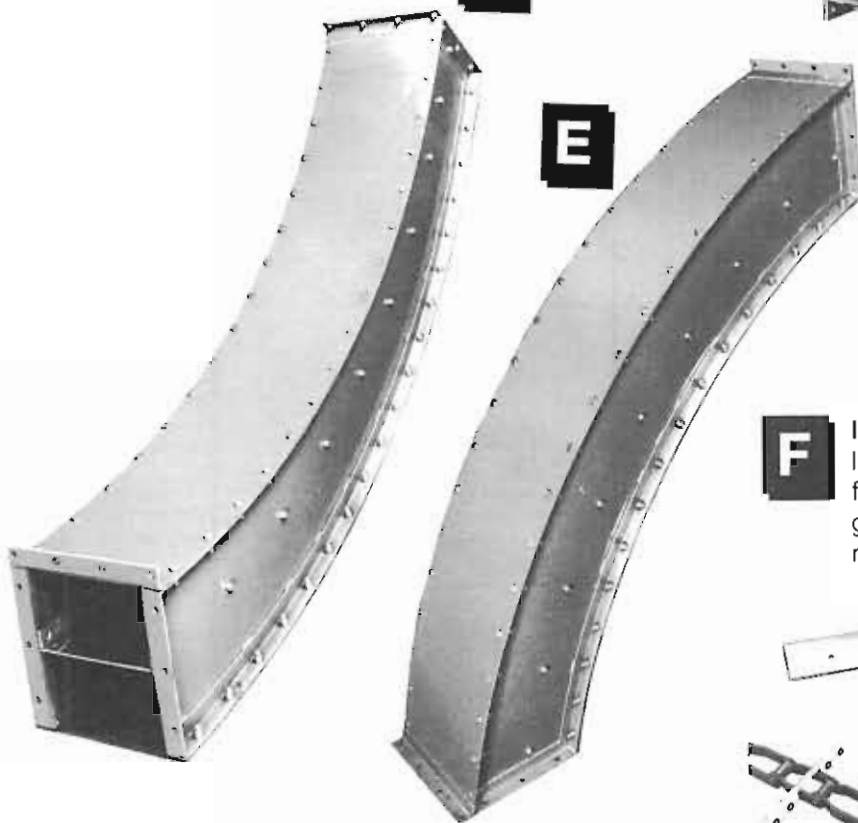
The Type H Trough is Horizontal. This trough carries product en masse horizontally or up to a 10° incline. This conveyor will move almost two times as much product as the Type C conveyor.



C



B



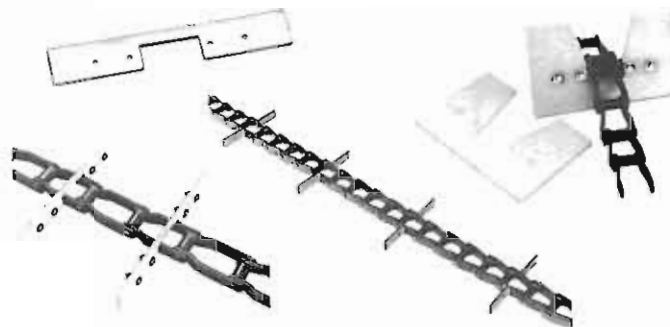
E



F






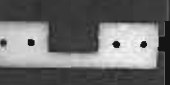
F **Intermediate Discharge Sections**
Intermediate discharge sections are available for multi-location discharge. A variety of gates are available including air operated, motorized, rack and pinion and hand slide.

E **Curved Sections**
Curved trough sections are available for angles of incline and incline to horizontal in 15°, 30°, 45°, 60°, and 75°. Radius angle construction of the curved section gives additional strength...top, bottom, and center. Reverse bend sections to return to horizontal flow are available as standard construction.



G **Chains and Flights**
Standard C and H style flights are UHMW. All chains and flights are available in a variety of materials and thicknesses to meet the toughest applications.

Drag Conveyor Flights / Paddles

DRAG CONVEYOR FLIGHTS						
	Size, Inches Length and Thickness	Screw Conveyor Superflo	Essmueller Peerless	Thomas Conveyor Fli-Con	Jeffrey Multi-flow	Ehrsam Dracon
6 x 1/4	X			X		X
6 x 3/8	X		X		X	X
9 x 1/4	X			X		X
9 x 3/8	X	X		X	X	X
9 x 1/2	X	X	X			X
10 x 3/8				X		X
10 x 1/2				X		X
12 x 3/8	X	X		X	X	X
12 x 1/2	X	X	X			X
14 X 3/8	X	X		X	X	X
14 X 1/2	X	X				X
16 X 3/8	X	X		X		X
16 X 1/2	X	X	X			X
18 X 3/8	X			X		X
18 X 1/2	X	X				X
20 X 1/2		X		X		X
20 X 5/8			X			X
24 X 1/2		X		X		X
24 X 5/8			X			X

SPECIFICATIONS

Material : Virgin Ultra High Molecular Weight (UHMW) polyethylene is white. Reprocessed UHMW is green. Static-reduced UHMW is black. UHMW has a thickness tolerance of +/- 10%.

Style: Flights are produced to the drag conveyor manufacturer's design. Cut edges are square unless noted.

Temperature: -60° F to +225° F or -51° C to + 107° C

Interchangeability: Can be mixed with existing metal, rubber, or plastic flights

Installation: Caution - Place a flat steel washer on the front side of the flight next to the plastic.

Ordering Instructions:

1. Number of flights required
2. Manufacturer or trade name of flights being replaced
3. Length and Thickness Required
4. Drilling - Number and location of holes
5. Fax drawing with dimensions