



Magnets | Material Handling
Electronic Inspection | Service

Heavy Duty Hinged-Steel Belt Conveyors

Series: SBC



- 1 Rugged:**
 - Heavy duty 7 gauge frame construction
- 2 Durable:**
 - Heavy duty angle iron tracks for long term wear resistance
- 3 Safety:**
 - Safety bottom pans standard
- 4 Sturdy:**
 - 11 gauge belt construction for 2.5" and 4" pitch belts
- 5 Long Lasting:**
 - Heat-treated belt rollers for optimum wear life
- 6 Made in USA:**
 - American made drive packages

Application

MPI's Steel Hinge Belt Conveyors (SBC) are perfect for conveying a wide range of materials in demanding conditions. Steel Hinge Belt Conveyors offer a competitive, heavy-duty design to handle a wide range of both ferrous and non-ferrous materials. Ideally suited to industrial applications involving the transport of high temperature and/or oily parts, MPI's SBC conveyors are a great low-maintenance option for moving scrap, steel chips, fasteners, etc.

Standard designs are available in a variety of sizes and configurations to meet your application and include plain, perforated, pimpled or pimpled and perforated aprons. SBC conveyors are offered with many design options and can also be supplied with other ancillary components, such as feeders and hoppers, to provide a complete material handling system.

Key Features

- Pitch sizes from 2.5" to 6"
- Belt widths from 6" to 36"
- Belt options: plain, flat top, pimpled or perforated belts
- Various cleat sizing and spacing available
- Custom engineered designs using standard components
- Effectively conveys all types of metals in tough environments of heat, impact and abrasion
- Longer life and smoother performance with heavy-duty side frames
- Built in torque limiter
- Interlocking belt sidewings prevent jamming of material
- Flanged roller options: none, every other, or all

**Specifications subject to change*

| Specifications | | | |
|-------------------------|----------|---------|-------------|
| Pitch | 2.5" | 4" | 6" |
| Frame Depth (IN) | 8.5" | 15.25" | 23.25" |
| Frame Gauge | 12 | 10 | Channel |
| Driver Size | 6 Tooth | 6 Tooth | 6 Tooth |
| Duty | Standard | Heavy | Extra Heavy |

Note: All other measurements are variable on customer selections and customizations



Steel Hinge Belt Conveyor (SBC) Selectable Options

SBC Belt Type: MPI offers three types of steel belt conveyors. Each larger belt pitch is built with a heavier duty belt and frame material to handle more difficult scrap or higher scrap rate capacities. MPI will help you select the correct duty for your application.

- 2.5" Pitch belt
- 4" Pitch belt
- 6" Pitch belt

Shape Configuration:

- Horizontal straight
- Incline straight nose over
- Dogleg horizontal/continuous radius discharge
- Dogleg nose over
- Incline straight horizontal/continuous radius discharge

Infeed Length:

- Minimum infeed length is 12" to as long as required for customer application

Angle of Incline:

- 15°
- 30°
- 45°
- 60°
- 75°
- Custom

Discharge Length:

- The discharge lengths can be made as long as required for the application.

Infeed Height: Floor installation is standard. This will result in the infeed height being the body depth specified by the series selected. Legs can be added for raised infeed heights.

- **Body depth (standard)**
- As specified for the application (legs added)

Discharge Height:

- No standard – as specified for the application

Overall Length:

- Calculated based on configured dimensions and options specified above

Belt Width: Minimum widths are based on belt type selected. Standard widths are available in increments of 2" from the minimum to a maximum of 48".

Side Guides:

- **None (standard)**
- Custom, as required for application

Drive Package:

- **US Manufactured Baldor TEFC (standard)**
- Customer specified

Drive Package Location:

- **Offset drive (standard)**
- Underhead chain drive
- Overhead chain drive

Motor Location (looking in direction of product travel):

- **Right (standard)**
- Left

Power Input:

- **230/460/3 Phase / 60 Hz (standard)**
- 115 /230 1 Phase
- 575 / 3 Phase

Conveyor Speed: Conveyor speed varies by belt design

Paint:

- **MPI green (standard)**
- MPI light gray
- Customer specified

Support Legs:

- Adjustable position

Infeed Casters:

- **Not included (standard)**
- "V" wheel
- 5" rigid
- 5" rigid with brake
- 5" swivel
- 5" swivel locking with brake

Discharge Casters:

- **Not included (standard)**
- "V" wheel
- 5" rigid
- 5" rigid with brake
- 5" swivel
- 5" swivel locking with brake (recommended)

Controls:

- **Not included (standard)**
- Included as specified

Other Options Include:

- Abrasion resistant track liners
- Smoke covers for containing smoke generated from hot parts
- Body inspection doors
- Loading baffles and hoppers
- Discharge chutes

*Specifications subject to change