WARDCRAFT 2⅛” HINGED STEEL BELT

AVAILABLE MOTOR MOUNTS; SEE PG. 14

BASIC CONVEYOR CONFIGURATIONS

Type 1

Type 2

Type 3

Type 4

(other types available not shown)

- HEAVY GAUGE INTERLOCKING SIDE WINGS
- LARGE DIAMETER APRON SHAFTS
- PRECISION-FORMED HEAVY-GAUGE APRON PLATES
- LARGE DIAMETER HARDENED ROLLERS, SIDE TAPERED
- OVERLOAD TORQUE LIMITER
- TOTALLY ENCLOSED GUARDING TO COMPLY WITH OSHA

Model SH T-3 Steel Hinge Conveyor with perforated belt and "A" motor mount.

FEATURES

WARDCRAFT'S improved heavy-duty hinged steel belt conveyors are built to perform with fewer interruptions over a longer service life. Their unique features permit continuous operation under demanding conditions, and minimize down time when repairs are ultimately required.

The conveyors were developed to meet the need of many industries for equipment to handle material which fabric, canvas, cotton or rubber belts could not successfully convey. WARDCRAFT hinged steel belt conveyors are widely used, for example, by manufacturers to remove all types of chips, (cast iron, steel, aluminum, copper, brass, bronze...) from machinery.

Durably constructed, these units have the characteristics required to withstand heat, shock or abrasive environments, and to run in coolant/water/oil agents. They are used to convey stampings, forgings (hot or cold), jagged scrap metal, or utilized as quench conveyors, or as disposal systems.

An exclusive feature of the WARDCRAFT hinged steel belt conveyors is the continuous overlapping side wings made of special heavy gauge steel, through which the apron (axle) shafts pass with close tolerances; this construction forms an integral apron which gives added strength to the belt assembly. The side wings are designed to be completely detachable; there are no spot welds that have to be ground in order to disassemble the wings.

2½-Inch Pitch Steel Hinge Belt shown without side bars. Chain pull 1600#.

Close up of belt shows details of the exclusive interlocking side wing design. There are no weldments that will rip out and cause jams. Combination of functional design and durable construction assures trouble-free, long life operation. Optional side bars used, however when more chain pull is necessary.

2½-Inch Pitch Steel Hinge Belt shown with side bars. Increasing chain pull to 3200#.

STANDARD SPECIFICATIONS

| Belt       | 1600# chain pull, 2½-inch pitch metal belt - plain, pimpled, perforated. |
| Belt Widths | Std. width — 5", 8", 12", 18", 24", 30", 36". Belt may be furnished from 3" minimum to 60" maximum in 1" multiples. |
| Cleats     | 9½-inch high ⅜-inch flat stock (perforated cleats also available) |
| Frame      | 10 gauge formed steel |
| Bearing    | Drive and 4 bolt - seal for life |
| Belt Speed | 25fpm (other speeds available) |
| Motor & Reducer | 115/220V, 60 Hz single phase, or 230/460V, 60 Hz 3 phase: NEMA 56C face TEFC motor reversible. (optional 550V, 56C flanged reducers. |
| Sprockets  | 6 tooth 5° PD cast iron |
| Motor Mount| A, B, & H (See Page 14) Nule: A & B motor mounts have 7" clearance from belt to bottom of bridge, |
| Guards     | Metal guards totally enclosed painted safety yellow. |
| Paint      | Vista Green |
2½" HINGED STEEL BELT

TYPICAL CONVEYOR

MIN. DISCHARGE (457.20 mm)
3 (16.20 mm)
\(5\frac{3}{4}\) (171.05 mm)

STD. TAKE UP

BELT DIMENSIONS

(385.75 mm)
11\(\frac{1}{4}\) MIN. STD. RADIUS
28" MAX. STD. RADIUS

(711.20 mm)
1\(\frac{3}{8}\)" STD. HI-WINGS

C/L OF HINGE & TOP OF BELT APRON

PITCH 2½ (63.50 mm)

(127.00 mm)
6 TOOTH 5° PITCH DIA.

OUTBOARD ROLLERS SHOWN W/O SIDE BARS

OUTSIDE CHAIN LINKS ONLY ON OPTIONAL SIDE BARS

APRON AVAILABLE WITH
PLAIN, PERFORATED OR PIMPLED SURFACE

B.W. + 1\(\frac{3}{8}\) (34.92 mm)

B.W. + 3\(\frac{1}{4}\) (146.00 mm) (O.A. TAIL WIDTH)

CONVEYOR CROSS-SECTION WITH
2½-INCH PITCH BELT

OPTIMAL EQUIPMENT

Motor Mount JIC Drive
Variable Speed SCR, Vdrive, or Air Motor
Electrical 1 or 3 phase, on-off
Controls switch, forward-off-reverse switch and thermal overload protection
Casters 6" dia. both rigid & swivel with locks in steel & poly
Cleat Centers In 2½-in increments (5, 7\(\frac{5}{8}\), 10, 12\(\frac{5}{8}\), etc.) (Other centers available consult factory. Higher or lower cleats also available)
Supports 3" channel iron
(Adjustable) ± 3" or ± 6"
Bearings Re-lube type
Cord & Plug 1 or 3 phase — STO
Belt Apron 10' long
Pimple-perforated Belt Available with 3200# chain pull sidebars. Divided belt 2 lanes or more.
Frame 7/8" inch formed steel or structural. (Consult factory)

PIMPLED
For handling parts in oily condition or with oily film.

PERFORATED
For applications involving coolant, generally chip handling.

PLAIN
For general parts handling applications.

PIMPLED & PERFORATED (Optional)
For applications involving oil parts and chips where drainability is also desirable.

DIVIDED BELT

Metal Belt standard high wings with 3 lanes used for parts handling requiring segregation of various materials.

SPECIFICATIONS - 2½" PITCH BELT

Apron 12 gauge (.1046)
Interlocking Side Wings 10 gauge (.1345)
Rollers 1½-inch dia. x ¾-inch (hardened)
Shafts 7/16-inch diameter
Sidebars 3/4-inch x 1-inch
Optional Belt with 3200# belt spec.
Pimpled 1296 per sq. ft. 9 per sq. inch
Plain
Perforations Hole size 5/32" dia. 108 per sq. foot
Pimpled & Perforated (optional)
Allowable Chain Pull 1600# without side links
standard duty
3200# with side links
heavy duty.

To insure longevity on their wear surface the rollers are made from solid steel with the I.D. and rolling surfaces heat-treated to 64 Rockwell .008" deep. Larger in diameter than those on comparable competitive equipment the rollers are side-tapered, also for additional life.
LOW PROFILE
WARDCRAFT 2½" HINGED STEEL BELT

CONVEYOR CROSS-SECTION WITH 2½" PITCH BELT LOW PROFILE
A - A
B.W. + 5% (146.00 mm) = O.A. TAIL WIDTH

BELT DIMENSIONS
OUTBOARD ROLLERS SHOWN W/O SIDEBARS
APRON AVAILABLE WITH PLAIN, PERFORATED OR PIMPLED SURFACE

Belt Width
B.W. = 1½" (34.92 mm)
BELT WIDTH

MIN. DISCHARGE
STD. TAKE UP
(248.00 mm)
(20"

TYPICAL CONVEYOR
FEEDER SECTION
MIN. DISCHARGE
OUTLET CHAIN LINKS ONLY ON OPTIONAL SIDEARS
1½" MIN. STD. RADIUS (265.75 mm)
2½" MAX. STD. RADIUS (371.20 mm)

INCLINE SECTION
1½" STD. LO-WINGS
OUTSIDE CHAIN LINK ONLY ON OPTIONAL SIDEARS

C/L OF HINGE & TOP OF BELT APRON
1" HIGH ALLOY STEEL (25.40 mm)
OUTSIDE CHAIN LINK ONLY ON OPTIONAL SIDEARS

Model SHLP T-2 Low Profile
Steel Hinge Conveyor shown with "A" motor mount and exposed side wings

STANDARD SPECIFICATIONS
Belt 2½-inch pitch metal belt low sidewall. Available in plain, pimpled, & perforated.
Belt Widths Std. Width — 6" - 8" - 12" - 18" - 24" - 30" - 36"
Cleats 1½" high, ¼-inch flat stock (perforated cleats also available.)
Frame 10 gauge formed steel
Frame Height Main Body — 4½-inch excluding drive & tail section as shown. Also available with detachable tail section.
Bearings Drive End 4 bolt - seal for life.
Belt Speed 25 fpm (other speeds available).
Motor & Reducer 115/220V, 60 Hz, single phase, or 230/460V, 60 Hz, 3 phase; NEMA 56C face TEFC motor reversible. (550V optional) 56C flanged reducers.
Sprockets 6 tooth 5" PD cast iron
Motor Mount A, B. (See pg. 14). Note: A & B motor mounts have 7" clearance from belt to bottom of bridge.

Guards Metal guards totally enclosed painted safety yellow.
Paint Vista Green
WARDCRAFT'S new LOW PROFILE unit's utilized in Cold Heading & Screw Machines when low clearance is a problem. Available with cleats, height 1½" maximum and exposed side wing belt construction.

OPTIONAL EQUIPMENT
Motor Mount JIC Drive
Variable Speed SCR, Varidrive, or Air Motor
Electrical Controls 1 or 3 phase, on-off switch, forward-off, reverse switch and thermal overload protection
Casters 6" dia. both rigid & swivel with locks in steel & poly
Cleat Centers in 2½-inch increments (5, 7½, 10, 12½, etc.) (Other centers available - consult factory) Lower cleats also available
Supports 3" channel iron (adjustable) ±3" or ±6"
Bearings Re-lube type
Cord & Plug 1 or 3 phase — STO — 10" long.
Belt Apron Pimple-perforated
Belt Available with 3200# chain pull side bars. Divided belt 2 lanes or more.
Frame 5½" formed steel or structural (consult factory)