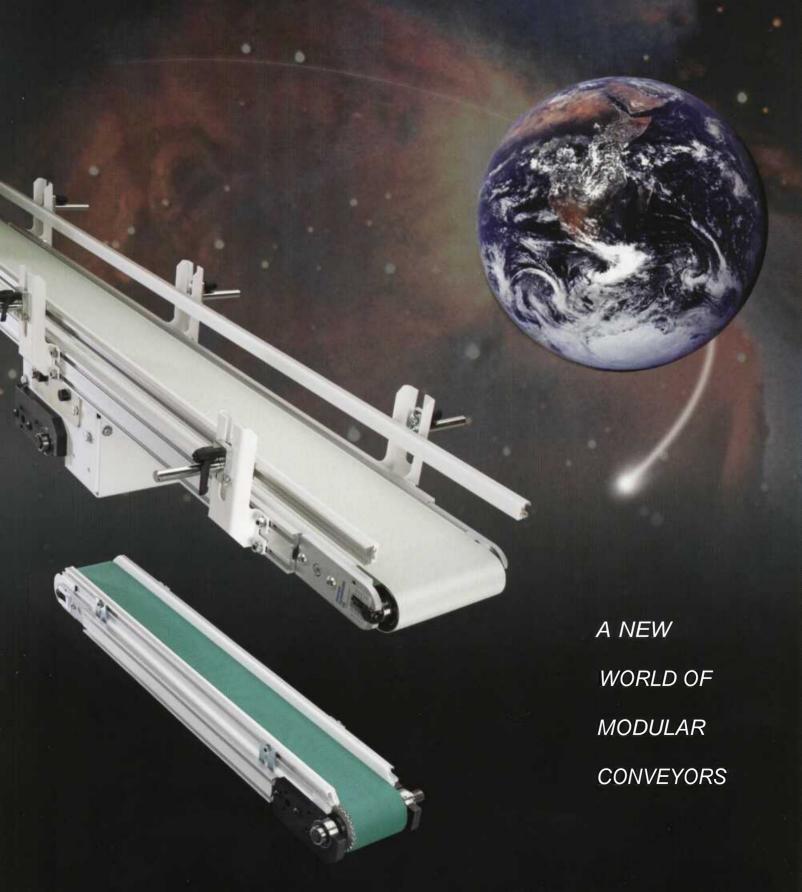
Conveyor Technologies Ltd.



Conveyor Technologies Ltd., supported by forty years of design engineering and manufacturing experience, is dedicated to providing the ultimate in modular low profile conveyors.

Extensive research has resulted in a conveyor of unmatched performance, versatility and cost effectiveness. Each application is afforded an appropriate selection of fourteen types. All of these types are derived from a single modular design with extensive interchangeability of components and offered in U.S. and metric versions.

This dedication to serving your needs will continue to assure the ultimate product.

Conveyor Selections

| End Drive Conveyors | page 4 |
|-------------------------------------|--------------|
| | |
| Center Drive Conveyors | pages 5, 20 |
| | |
| Cleated Conveyors | pages 6, 7 |
| | |
| Flex-Side Cleated Conveyors | pages 7, 19 |
| | |
| Magnetic Conveyors | page 8 |
| Constitution Fig. Co. | |
| Self-Tracking Conveyors | page 9 |
| | |
| Synchronous Self-Tracking Conveyors | pages 10, 11 |
| | |
| Vacuum & High Speed Conveyors | page 20 |
| The professional appropriate | |

Cost Effective Features

Conveyor Technologies Ltd. has set a new standard with the modular integration of (14) different conveyor types. The result is a product unparalleled in selection, performance, and value.

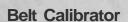
- 1 The majority of the basic conveyor components are interchangeable among all (14) conveyor types.
- 2 Drives, mounts, side rails, and accessories are interchangeable on all conveyor types.
- 3 Width sizes correspond to that of table top chain, providing greater integration flexibility.
- 4 Major reduction in the number of components provides greater reliability and reduced maintenance.
- 5 High bearing capacity provides greatly extended life, and permits increased belt tension to minimize reduction in conveyor load rating for incline, reversing and accumulating applications.
- 6 All bearings are sealed and lubricated for life, avoiding contamination and routine lubrication.
- 7 Self-aligning bearings avoid detrimental loads caused by misalignment and pulley deflection.
- 8 Bearings are readily available world wide.
- 9 All (14) types are offered in U.S. and metric versions.
- 10 Endless belts are quickly replaced without need to remove drive or dismantle conveyor from stands.
- 11 Single piece steel frame can provide 250% greater rigidity than a comparable aluminum extrusion.
- 12 Elimination of internal drive spline provides high drive stiffness, allows greater overhung loading, and eliminates pulley and shaft wear.
- 13 Larger pulley offers a broader belt selection, and increased rigidity for wider conveyors.
- 14 Manifold mounted drives eliminate drive timing belts and pulleys reducing maintenance and improving safety.
- 15 All drive units are lubricated and sealed for life, permitting drives to function in any position.



Drive Pulley

The rugged crowned pulley is supported on (2) self-aligning bearings which are sealed and lubricated for life. The solid steel bearing housing is also the manifold drive mounting surface, and serves as a precision support for the conveyor.





Belt life and maintenance savings are enhanced by precision gauges on each side which permits rapid calibrated tensioning and tracking. This system also allows checking belt length without removing the belt.



Side Rails

A broad selection of popular industrial rail guides are integrated into the side rail mounting systems.

A selection of "static dissipative" and "high temperature" rails are also available.

End Drive Conveyors

Type A represents the foundation of Conveyor Technologies' line, and provides outstanding performance.

Type A

Basic Standard Conveyor (Series S)



Basic Automation Conveyor (Series T)

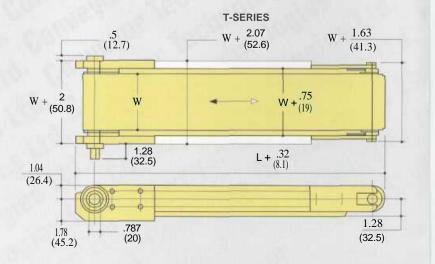
| Order Width | Belt Wid | lth (W) (mm) |
|----------------|----------|-----------------|
| 02 | 2.5" | (63) |
| 03 | 3.25" | (83) |
| 04 | 4.5" | (114) |
| 06 | 6.0" | (152) |
| 07 | 7.5" | (190) |
| 12 | 12.0" | (305) |
| 18 | 18.0" | (457) |
| 24 | 24.0" | (610) |

| Nominal Conveyor length (L) | | |
|--------------------------------|--------|--|
| Feet | (mm) | |
| 2' | (610) | |
| 3' | (914) | |
| 4' | (1219) | |
| 5' | (1524) | |
| 6' | (1829) | |
| 10' | (3048) | |

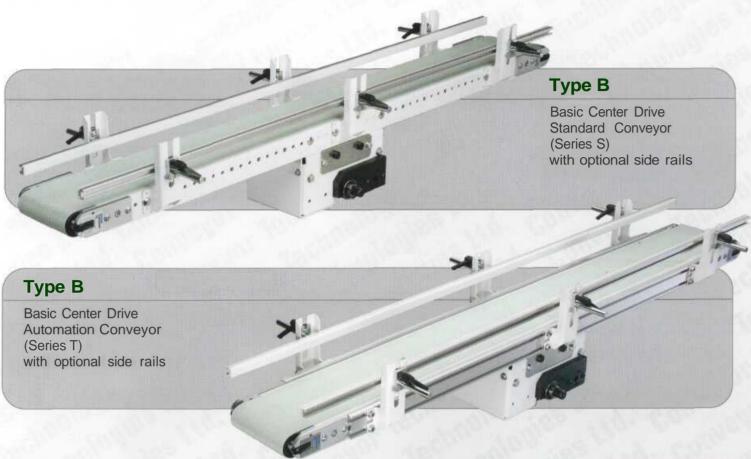
Optional lengths available - contact factory

See page 12 for ordering

See page 14 for technical data & drive ordering

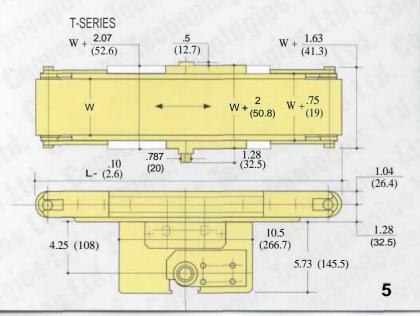


Center Drive Conveyors



Center Drive Conveyors

- Utilizes same drives as on end drive conveyors
- Single piece frame (10' and under)
- Drive can be repositioned
- Quick belt change
- Reversible



| Orđer Width | Belt Width (W) Inches (mm) | |
|----------------|-------------------------------|-------|
| 02 | 2.5" | (63) |
| 03 | 3.25" | (83) |
| 04 | 4.5" | (114) |
| 06 | 6.0" | (152) |
| 07 | 7.5" | (190) |
| 12 | 12.0" | (305) |
| 18 | 18.0" | (457) |
| 24 | 24.0" | (610) |

Optional lengths available - contact factory

See page 12 for ordering See page 14 for technical data & drive ordering

| Nominal | |
|-------------|-----------|
| Conveyor le | ength (L) |
| Feet | (mm) |
| 2' | (610) |
| 3' | (914) |
| 4' | (1219) |
| 5' | (1524) |
| 6' | (1829) |
| 10' | (3048) |
| 12.5' | (3810) |
| 15.5' | (4724) |
| 19.5' | (5944) |
| 24' | (7315) |
| 29' | (8839) |

Cleated Conveyors

- Inner sidewall UHMW lined
 - No pinch point at cleat entry
 - Greater net cleat width

Type C

Cleated Automation Conveyor (Series T) with optional mount B

Cleated Conveyors

- Incline material flow
- Spacing products on conveyor
- Counting and timing
- Part segregation

| Order Width | Belt Width (W) Inches (mm) | |
|----------------|----------------------------|-------|
| 02** | 2.5" | (63) |
| 03** | 3.25" | (83) |
| 04 | 4.5" | (114) |
| 06 | 6.0" | (152) |
| 07 | 7.5" | (190) |
| 12 | 12.0" | (305) |
| 18 | 18.0" | (457) |
| 24 | 24.0" | (610) |

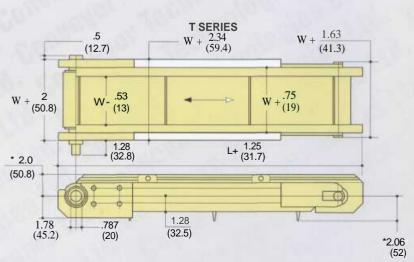
| length (L) |
|------------|
| (mm) |
| (610) |
| (914) |
| (1219) |
| (1524) |
| (1829) |
| (3048) |
| |

Optional lengths available - contact factory

Refer to page 7 for cleat selection

See page 12 for ordering

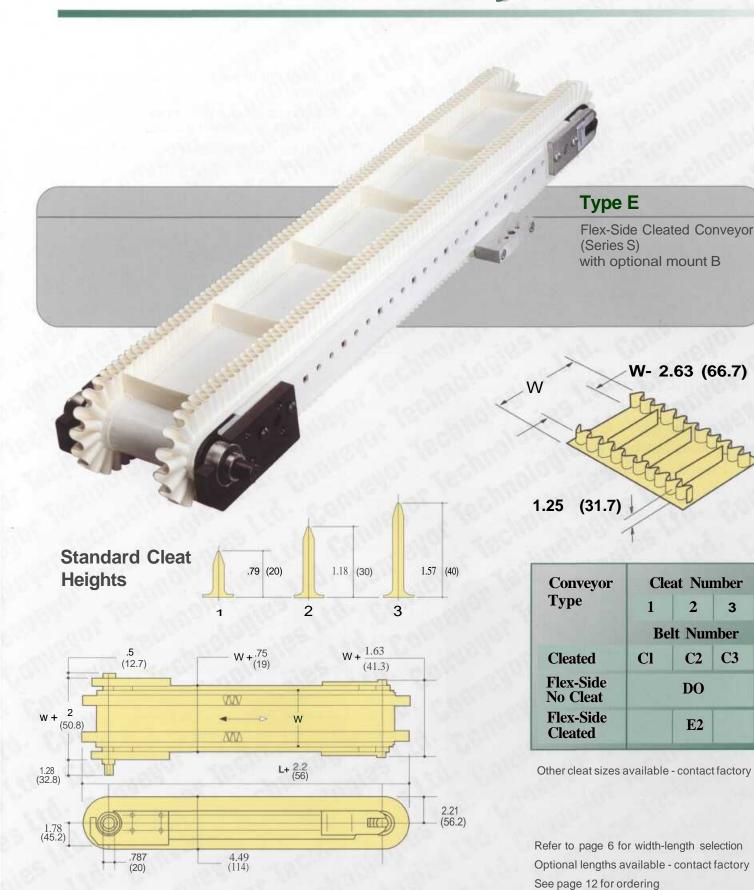
See page 14 for technical data & drive ordering



^{*} Dimensions are for 1" high cleats. Larger cleats will increase these dimensions

^{**}Not available in flex-side

Flex-Side Cleated Conveyors



See page 14 for technical data & drive ordering

Magnetic Conveyors

- Magnetic field extends to within 2" of pulley centers
- Uninterrupted magnetic field will convey both large and small parts
- High intensity magnetic field tends to draw parts towards center of belt



Magnetic Automation Conveyor (Series T) with optional side rails and mount A

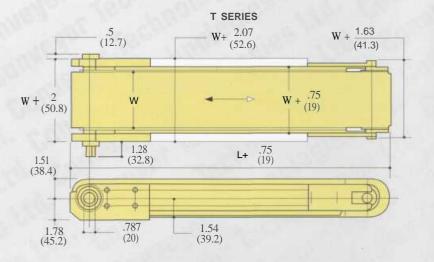
Magnetic Conveyors

- Incline material flow
- Increased acceleration
- Overhead pick-up and transfer
- Orientation and spacing
- Controlled drop
- Ferrous part separation

Available in center drive version (Type G)

| Order Width | Belt Wid | dth(W) (mm) |
|----------------|----------|----------------|
| 02 | 2.5" | (63) |
| 03 | 3.25" | (83) |
| 04 | 4.5" | (114) |
| 06 | 6.0" | (152) |
| 07 | 7.5" | (190) |
| 12 | 12.0" | (305) |
| | | |

| Nominal Conveyor length (L) | | |
|--------------------------------|--------|--|
| Feet | (mm) | |
| 2' | (610) | |
| 3' | (914) | |
| 4' | (1219) | |
| 5' | (1524) | |
| 6' | (1829) | |
| 10' | (3048) | |



Optional lengths and widths available - contact factory

See page 12 for ordering

See page 14 for technical data & drive ordering

Load capacity will vary with projected load area - contact factory

Self-Tracking Conveyors

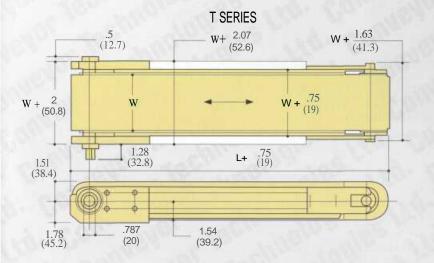
Self-Tracking Conveyors

- Self-Tracking feature allows product entry or exit from side
- Suitable for off-center loading
- Recommended for reversing applications



Type J

Self-Tracking
Automation Conveyor
(Series T)
with optional side rails
and mount A



| Order Width | Belt Wid Inches | lth (W) (mm) |
|----------------|--------------------|-----------------|
| 02 | 2.5" | (63) |
| 03 | 3.25" | (83) |
| 04 | 4.5" | (114) |
| 06 | 6.0" | (152) |
| 07 | 7.5" | (190) |
| 12 | 12.0" | (305) |
| 18 | 18.0" | (457) |
| 24 | 24.0" | (610) |

| Nominal Conveyorlength(L) | | |
|------------------------------|--|--|
| (mm) | | |
| (610) | | |
| (914) | | |
| (1219) | | |
| (1524) | | |
| (1829) | | |
| (3048) | | |
| | | |

Optional lengths available - contact factory

See page 12 for ordering See page 14 for technical data & drive ordering

Synchronous Self-Tracking Conveyors

Type M

Synchronous Self-Tracking Automation Conveyor (SeriesT) with optional side rails and mount B

Synchronous Conveyors

- Selftracking
- Positive non-slip belt drive
- Excellent for precision indexing
- Ideal forHi-Cyclicstart/stop and reversing applications
- High-tensile steel tension members in belt permits extremely high load capacity

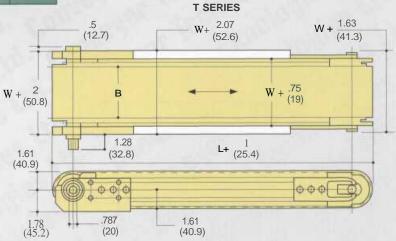
| Nominal | | |
|----------|------------|--|
| Conveyor | length (L) | |
| Feet | (mm) | |
| 2' | (610) | |
| 3' | (914) | |
| 4' | (1219) | |
| 5' | (1524) | |
| 6' | (1829) | |
| 10' | (3048) | |

| Order Width | Belt Wid | dth (B) (mm) | W |
|----------------|----------|-----------------|-----|
| 02 | 1.97" | (50) | 2.5 |
| 04 | 3.94" | (100) | 4.5 |
| 06 | 5.91" | (150) | 6.0 |

Optional lengths available - contact factory

See page 12 for ordering

See page 14 for technical data & drive ordering



Application Examples

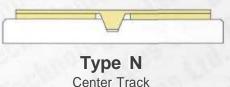
- Dividing Line
- Feeder Line
- Indexing Line
- Indexing Line with Product Pallet Carrier

Application

Synchronous Conveyors have been very successful in solving difficult conveying applications. Meshing of pulley and belt teeth guarantee accurate drive forces. Steel cord tension members allow the transmission of high loads without post elongation.



Type M is guided by the heavy edge section of the belt against the machined side wall of the UHMW bed plate. This type is suitable for general applications involving off-center loading, accumulation, diverting, precision indexing, intake or discharge at speeds up to 1000'/min.



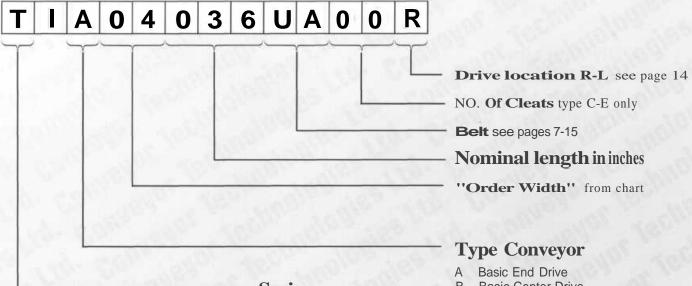
Type N is guided by a precision fitted vee guide thermally welded to the bottom of the belt. This type is recommended when closer tracking is desirable, heavier side or off-center loading exist, or speeds from 1000'-2000'/min are required.

Synchronous toothed timing belts are constructed of extremely wear resistant polyurethane with high tensile steel tension members. The precision tooth engagement permits a highly accurate motion control for precision indexing, high acceleration and deceleration, positioning, synchronous conveying and linear production lines.

Synchronous belts frequently have precision polyurethane profiles thermally welded to the top of the belt surface. These profiles act as product carriers, product separators, pushers and actuators. They can also be arranged for attaching pallet trucks. We can provide a selection of over 2000 stock profiles or mechanical modifications to these to suit your specific needs.

All synchronous conveyor applications should be referred to the factory for quotation.

Conveyor Ordering Information



Description of Example Given

Automation - Basic End Drive conveyor 4.5" wide, 3' long with general purpose urethane belt, and drive located on the right side.

See page 14 for ordering drive.

Series

- S Standard
- T Automation
- U Standard Metric
- V Automation Metric
- B Basic Center Drive
- C Cleated End Drive
- D Flex-Side End Drive
- E Flex-Side Cleated End Drive
- F Magnetic End Drive
- G Magnetic Center Drive
- H Vacuum End Drive
- I Vacuum Center Drive
- J Self-Tracking End Drive
- K Hi-Speed End Drive
- L Hi-Speed Center Drive
- M Synchronous Side Track
- N Synchronous Center Track

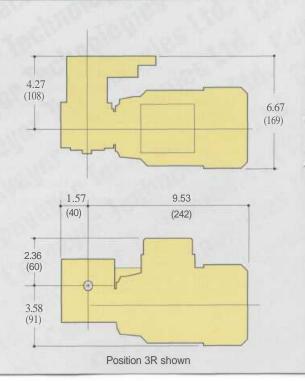
Heavy Duty Drives



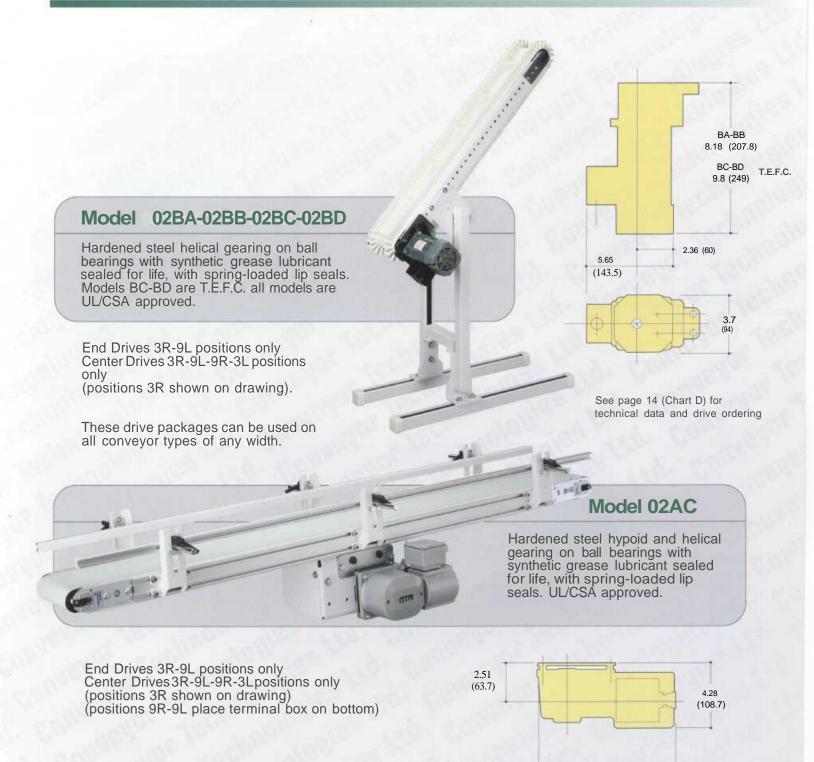
Model OIAG

Hardened and precision ground worm supported on (2) anti-friction bearings within the reducer housing mating with alloy bronze helicoid worm gear. Equipped with synthetic lubricant and sealed for life with springloaded lip seals on both input and output shafts. Motor is T.E.F.C and rated for inverter service. CE/VDE approved UL pending

Drive package can be used on all conveyor types of any width See page 14 (Chart B) for technical data & drive ordering



Standard Drives



See page 14 (Chart C) for technical data & drive ordering

Due to the wide variety of drive set-ups and applications, point of installation guarding is

the responsibility of the end user.

1.85

(47)

4.5 (114)

1.85 (47) 6.93

(176)

Drive Ordering Information

To select a drive, refer to chart "A" and obtain the Ft/Rev. for the selected conveyor type. Divide the desired speed in feet per minute by the Ft/Rev. to obtain the required RPM. Divide the maximum conveyor load by 4 to determine the required torque, refer to charts B-C-D and select the desired drive based on RPM and torque.

Actual load capacity is based on available torque. Potential load per inch of width, and load per inch lb torque are based on horizontal travel with load evenly distributed. Inclined travel, accumulation, or reverse travel away from drive may require increased belt tension and torque, consult factory.

V.S. DC controller Chart B (OICG drives) provides a broad speed range at full torque. NEMA enclosure 115V-1PH-60HZ Part No. 100005

V.S. controller Chart D (02Bdrives) provides a speed range down to 50% of full speed at full torque. 115V-1PH-60HZ Part No. 100003

Chart A

| Type Conveyor | Belt Travel Ft/Rev. | Potential Load/Inch of width | Load Per In. Lb. Torque |
|-------------------------------|------------------------|------------------------------------|-------------------------------|
| A Basic End Drive | .5' | 30 | 4 |
| B Basic Center Drive | .5'75** | 30 | 4 |
| C Cleated End Drive | .5' | 30 | 4 |
| D Flex-Side End Drive | .5' | 30 | 4 |
| E Flex-Side Cleated End Drive | .5' | 30 | 4 |
| F Magnetic End Drive | .75' | C.F. | C.F. |
| G Magnetic Center Drive | .5'75** | C.F. | C.F. |
| H Vacuum End Drive | .75' | C.F. | C.F. |
| I Vacuum Center Drive | .5'75** | C.F. | C.F. |
| J Self-Tracking End Drive | .75' | 45 | 4 |
| K Hi-Speed End Drive | .75' | 45 | 4 |
| L Hi-Speed Center Drive | .75' | 45 | 4 |
| M Synchronous Side Track | .82' | C.F. | 4 |
| N Synchronous Center Track | .82' | C.F. | 4 |
| * Optional | | | |

Chart B

| Fixed Speed Model | Variable Speed Model | Torque | RPM |
|-------------------------|----------------------------|--------|-----|
| 0IAG | 0ICG | 043 | 350 |
| 0IAG | 0ICG | 065 | 232 |
| 0IAG | 0ICG | 083 | 175 |
| 0IAG | 0ICG | 118 | 116 |
| 0IAG | 0ICG | 135 | 87 |
| 0IAG | 0ICG | 158 | 70 |
| 0IAG | 0ICG | 150 | 58 |

Chart C**

| Model | Torque | RPM |
|-------|--------|-----|
| 02AC | 016 | 165 |
| 02AC | 025 | 110 |
| 02AC | 032 | 82 |
| 02AC | 048 | 55 |
| 02AC | 097 | 28 |
| 02AC | 184 | 14 |
| 02AC | 369 | 7 |
| | | |

Light areas are standard

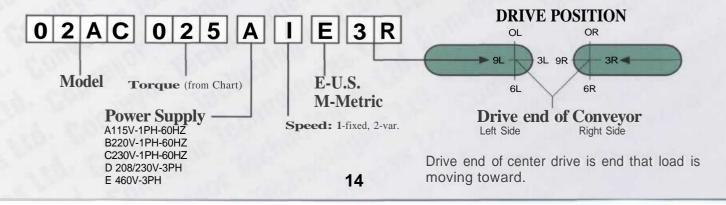
** Other ratings available

Chart D**

| Model | Torque | RPM |
|-------|--------|-----|
| 02BD | 015 | 331 |
| 02BD | 024 | 221 |
| 02BD | 031 | 165 |
| 02BD | 047 | 110 |
| 02BD | 093 | 55 |
| 02BC | 125 | 28 |
| 02BB | 150 | 14 |
| 02BA | 187 | 7 |

** Other ratings available - consult factory

V.S controller (part No. 100003) will permit up to 30:1 speed range, however; torque will reduce when speed is reduced below 50% of full speed. This control is only suitable for drives on Chart D. For V.S. control of drives on Chart C contact factory.



Belt Materials

Standard Belting - Type NA

This belting has superior edge fray resistance, improved tracking, low noise level, cut resistance, and excellent chemical resistance. The total belt thickness .1" (2.5mm) coupled with the homogeneous construction provides a cushioning effect for delicate parts. Belting is permanently anti-static.

This belting is suitable for accumulation, diverting, merging, transfer, intake or discharge where a tough low friction surface is suitable. Industries utilizing this belting are material handling, packaging, metal processing, automotive, furniture, paper, electronics, and ceramics.

Standard Belting - Type VA

Offers good abrasion resistance, and low noise level, excellent chemical resistance. The medium grip top surface allows minor incline/decline applications. Total belt thickness is .080" (2mm). Belting is anti-static.

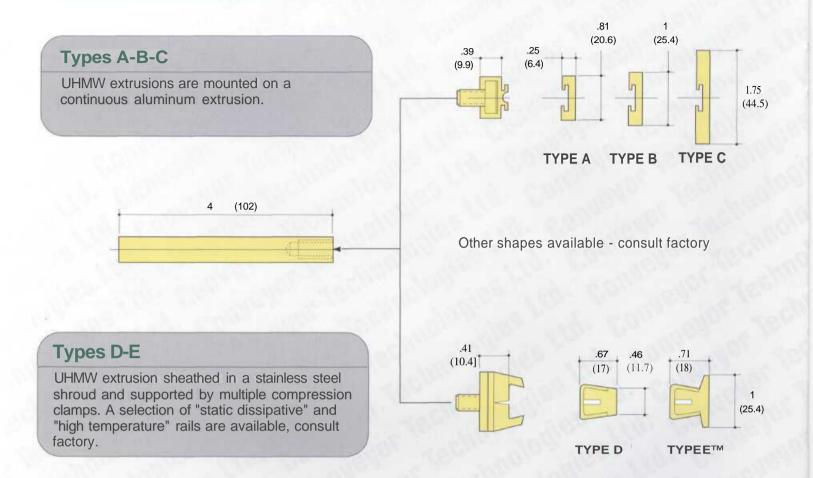
This belting is suitable for general conveying applications where a medium grip surface is desirable. Belting is not recommended for accumulation or applications requiring a low friction surface. Industries utilizing this belting are material handling, packaging, metal and plastic, furniture, paper, inspection, and assembly. Belting is suggested for most magnetic and vacuum applications.

| Alternate Belt Selection Chart | | | |
|--------------------------------|---|--|--|
| Туре | Description | | |
| UA | General Purpose Urethane 75-85 Durometer cover hardness. General purpose belt - not recommended for accumulation applications. Anti-Static. FDA-USDA-EU approved. | | |
| UB | Accumulate/Divert 85-92 Durometer urethane surface hardness. Anti-Static FDA-USDA-EU approved. | | |
| UC | Special Purpose Urethane 85-92 Durometer cover hardness Used for most cleated belting. FDA-USDA-EU approved. | | |
| VB | High Friction PVC contoured surface high friction cover recommended for incline applications. Anti-static | | |
| UD | Anti Static 85-92 Durometer low friction surface. Carbon/Urethane impregnated for anti-static/conductive requirements. | | |
| ВА | Heat Resistance Temperature range -350° F. FDA-USDA approved. | | |

Most belting has a thermally welded finger splice. Temperature ranges below or above room temperature should be noted when requesting a quotation. Identification of any chemicals or oils should also be given.

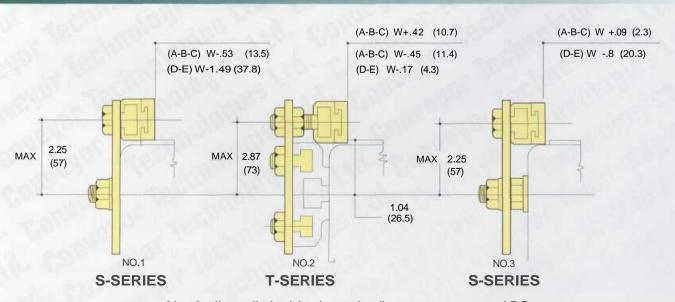
Other belting is available for special applications - consult factory.

Guide Rails



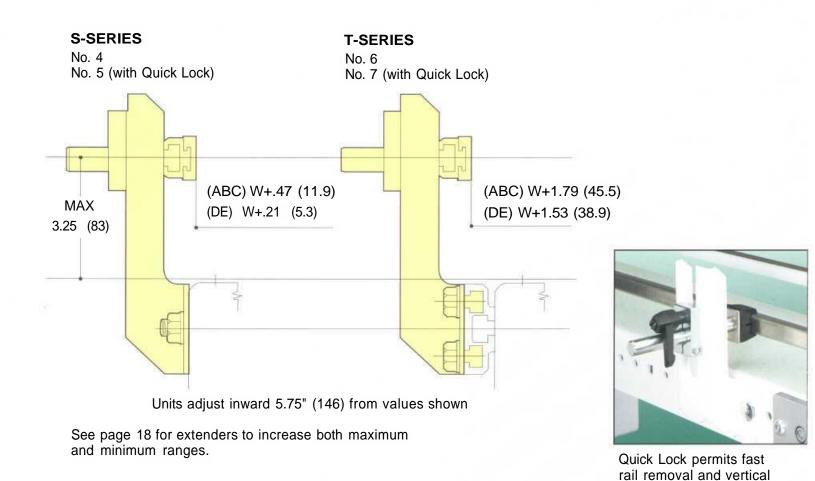
Fixed Rail Mount

™ Registered Trade Mark Valu-Engineering Inc.

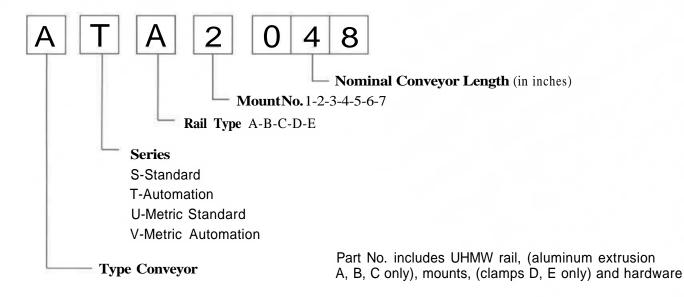


No. 2 allows limited horizontal adjustment on types ABC

2 Axis Adjustable Rail Mount



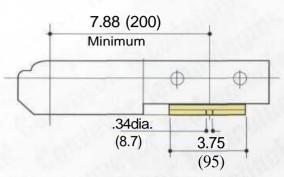
Ordering Information



adjustment.

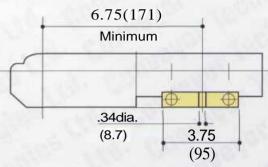
Accessories - Ordering Information

Mount A



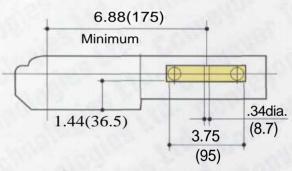
Adjustable in 3" (76) increments
 Part No. 100012 *

Mount B**



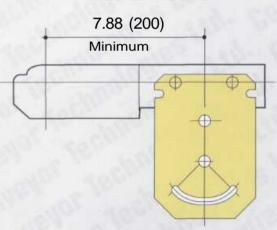
- Infinitely adjustable
- Leveling featurePart No. 100013

Mount C (Not used on T-series)



- Adjustable in 1" (25.4) increments
- Leveling feature
 Part No. 100014 **
- * Add conveyor series (page 12) to part number.
 ** Mount B cannot be used on all conveyors consult factory
 Center distance between mounting holes width 'W' + 2.88 (73)

Stand Mount D



- Infinitely adjustable on T Series
- Adjustable in 3" (76) increments on S Series
 Part No. 100015 *

2 Axis Adjustable Rail Extender

Used to extend maximum range of rail mount numbers 4-5 by 2" and reduce minimum range of 4-5-6-7 by 2" (See page 17). Not available in metric. Part No. 100016

Tee Slot Fastener Packets (Qty. 10)

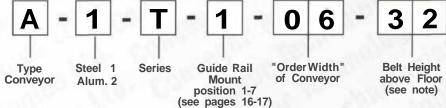
5/6-18 guide rail packet Part No. 100017

1/4-20 dual slot T-series packet Part No. 100018

Support Stands - Ordering Information

Stand Part No.





32" belt height above floor is standard, minimum height is 20", however, heights between these values or above 32" can be specified.

Adjustment range is ± 2 " (51) (height can be reduced further with stand top above belt surface). Refer to page 18 for conveyor to stand mount D.

Stands are equipped with safety locks to prevent inadvertent vertical drop and to allow presetting of desired position.

Steel stand has U.S. fasteners- aluminum has metric.

Horizontal Stand Brace

Steel Part No. 100008

(Conveyor length in inches)

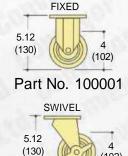
Aluminum Part No. 100009

(Conveyor length in inches)

Brace ties (2) stands together, brace should be used when stands are not bolted to floor or when casters are installed.

Casters

Note: Horizontal brace should be used with caster



Part No. 100002

(102)

Stand-Base Mount







Stand base mount provides a compact economical means of achieving a broad range of adjustment for inclined applications. This arrangement is not recommended for conveyors over 6' (1829) unless tail end is supported. (Stand not included).

Steel part No. 100010 Aluminum part No. 100011

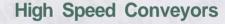
Vacuum & High Speed Conveyors



Conveyor Technologies vacuum conveyors feature a unique vacuum module which confines the vacuum within the module. No vacuum is created inside the conveyor which might cause contamination. Should the need arise to change the vacuum pattern, only the module and belt need to be changed. Consult factory.

Type H

Vacuum End Drive S Series Available in center drive version (Type I)



Type L

High Speed Center Drive T Series

High Speed Units up to 2000'/min are available. Contact Factory

20

Type K

High Speed End Drive T Series

Inquiry Form

| | NAMEADDRESS | PHONE | FAX_ | ======================================= |
|---|---|-------------------|------------------------|---|
| | TYPE OF BUSINESS COPY THIS FORM AND FILL IN THE FOL | | | |
| 1 | SELECT CONVEYOR TYPE AND SE | RIES | | SERIES |
| | BASIC END DRIVE BASIC CENTER DRIVE CLEATED END DRIVE FLEX-SIDE END DRIVE VACUUM COUNTY DRIVE DRIVE MAGNETIC END DRIVE DRIVE DRIVE DRIVE | ND DRIVE ENTER | SYNCHRONOUS SIDE TRACK | S-STANDARD T-AUTOMATION U-STANDARD METRIC V-AUTOMATION METRIC |
| 2 | CONVEYOR WIDTH DRIVE MOTOR REQUIREMENTS | LENGTH | QU, | ANTITY |
| 3 | BELT SPEED REQUIRED MAX. LOAD ON CONVEYOR INCLINE (GIVE ANGLE) ACCESSORIES | (lbs.) | VOLTAGEPH | |
| | SUPPORT STANDS HEIGHT TO TOP CONTROL GUIDE RAILS PLEASE SPECIFY ANY SPECIAL CIRCUMYOUR APPLICATION. | ISTANCES O | R REQUIREMENTS THAT M | CASTERS MAY BETTER DESCRIBE |

SHOULD YOU NEED FURTHER ASSISTANCE, DO NOT HESITATE TO CALL, WE WOULD BE PLEASED TO ASSIST

SEND FORM TO:

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