



PERFORMANCE FEEDERS

Auto-Kinetics Belt Conveyor Systems



Product Specifications and Information

BASIC CONVEYOR INFORMATION

Auto-Kinetics belt conveyors offer a cost-effective alternative to conventional welded steel conveyors. The T-slotted, extruded aluminum frame and bolt on components make for a system that is strong, modular, attractive and that can be easily reconfigured in the field.

STANDARD FEATURES

- 16 gauge stainless steel wear surface.
- Sealed ball bearings on all pulleys.
- Center drive module can be positioned anywhere along the conveyor.

To order, specify:

- Drive style and location (see pages 6-9)
- Nominal width
- Overall length
- Belt style (see page 5)
- Shaft output (left or right hand)
- Live load
- Belt speed (FPM)
- Floor stands (see page 10)
- Side rail style (see page 12)

CUSTOM MODIFICATIONS

If you don't see what you need in this catalog, ask us. We do many custom modifications to the Auto-Kinetics Belt Conveyor, including:

- Dual belt conveyors
- Indexing conveyors
- End stops and intermediate stops
- Pallet handling mechanisms
- Timing belt conveyors
- Backlit conveyors

CONVEYOR DIMENSIONS

LENGTH "L"

END DRIVE	Minimum	Maximum
Standard	380MM (15")	3M (10')
*Heavy-duty	510MM (20")	9M (30')
CENTER DRIVE	Minimum	Maximum
Standard	380MM (15")	3M (10')
*Heavy-duty	510MM (20")	9M (30')

*Heavy-duty idlers provide an additional 25MM (1.0") of belt tensioning adjustment, facilitating easier belt change on longer and wider conveyors.

WIDTH "W"

STANDARD FRAME	HEAVY-DUTY FRAME
40MM (1.57")	40MM (1.57")
80MM (3.15")	80MM (3.15")
120MM (4.72")	120MM (4.72")
160MM (6.30")	160MM (6.30")
200MM (7.87")	200MM (7.87")
240MM (9.45")	240MM (9.45")
280MM (11.02")	280MM (11.02")
320MM (12.60")	320MM (12.60")
	400MM (15.75")
	480MM (18.90")
	560MM (22.05")
	640MM (25.20")

Note: Belt Width = Frame Width "W" - 8mm (.31").

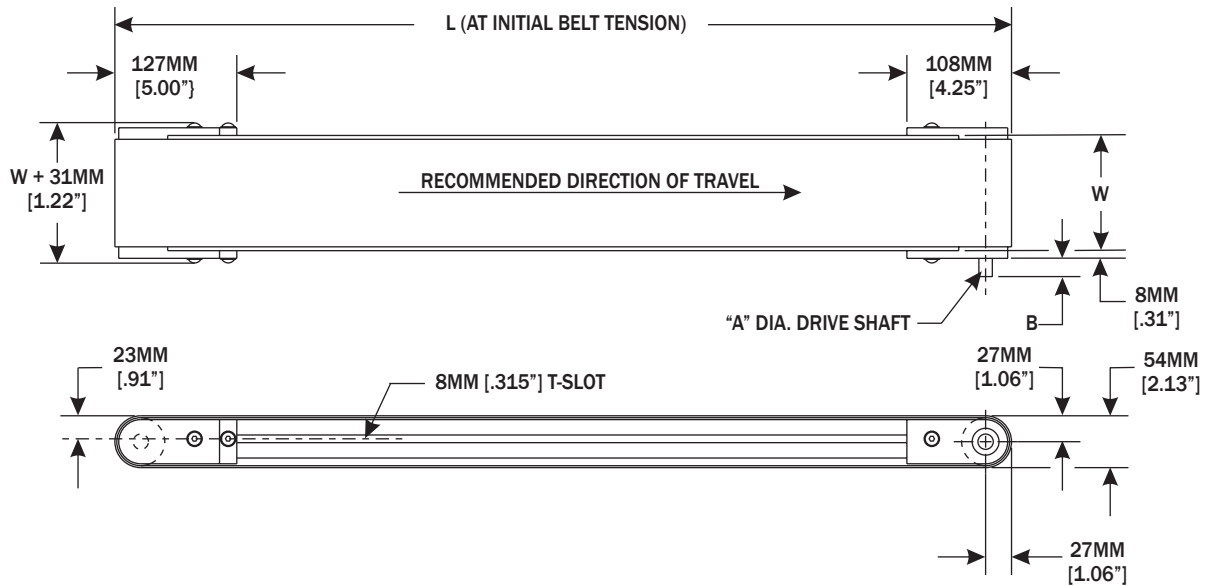
DRIVE SHAFT

Drive shafts are available in 1/2" and 5/8" diameters with standard keys. They are available with left-hand or right-hand output (right-hand output shown).

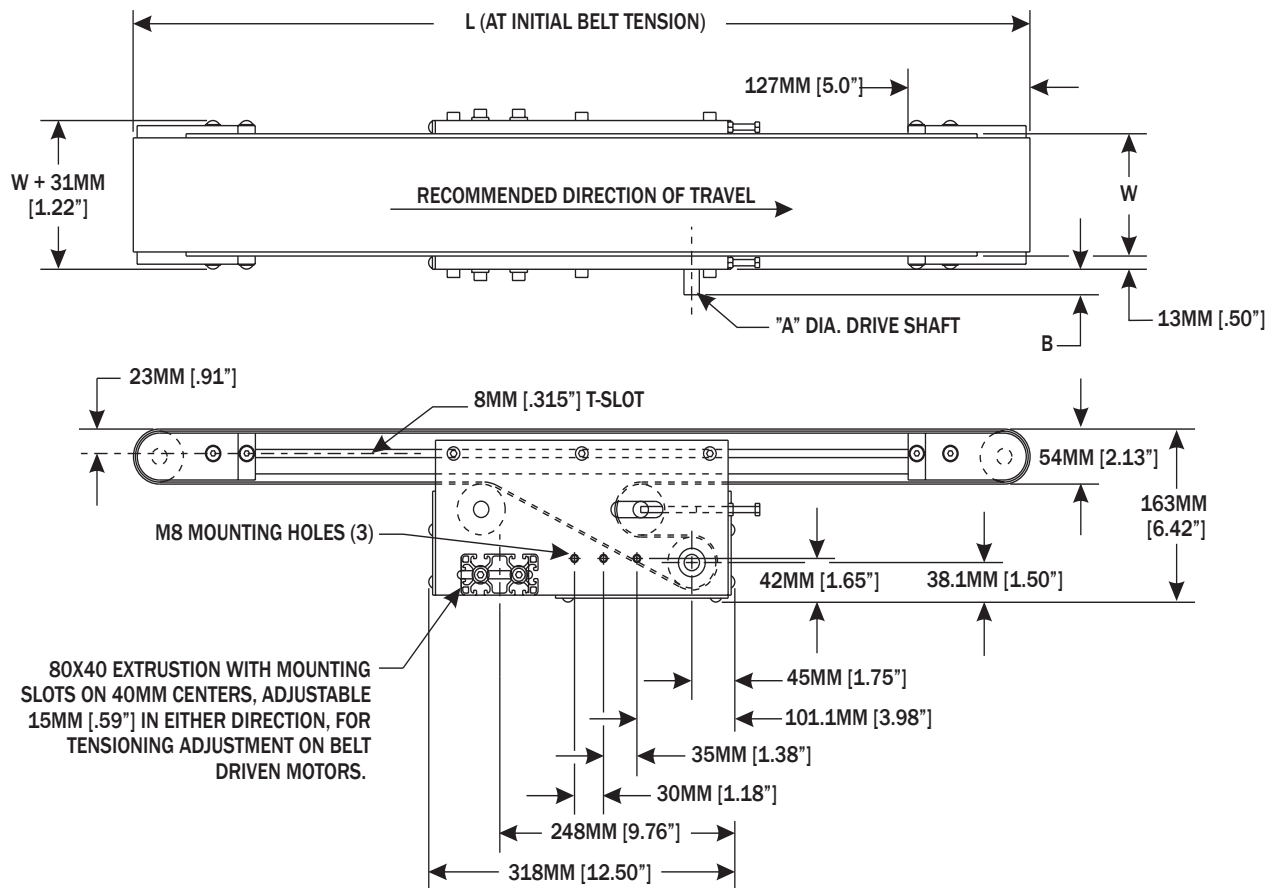
SHAFT SIZE	"A" Diameter	"B" Length
1/2"	12.7MM (.500")	21MM (.83")
5/8"	15.9MM (.625")	40MM (1.57")

STANDARD DUTY CONVEYORS

STANDARD DUTY END DRIVE

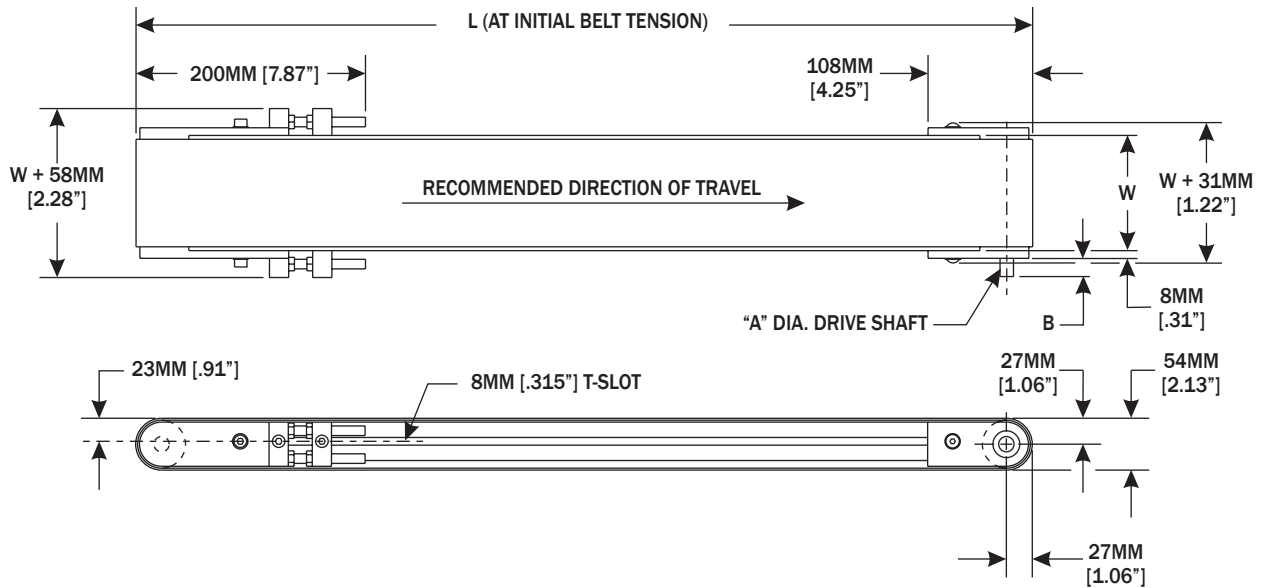


STANDARD DUTY CENTER DRIVE

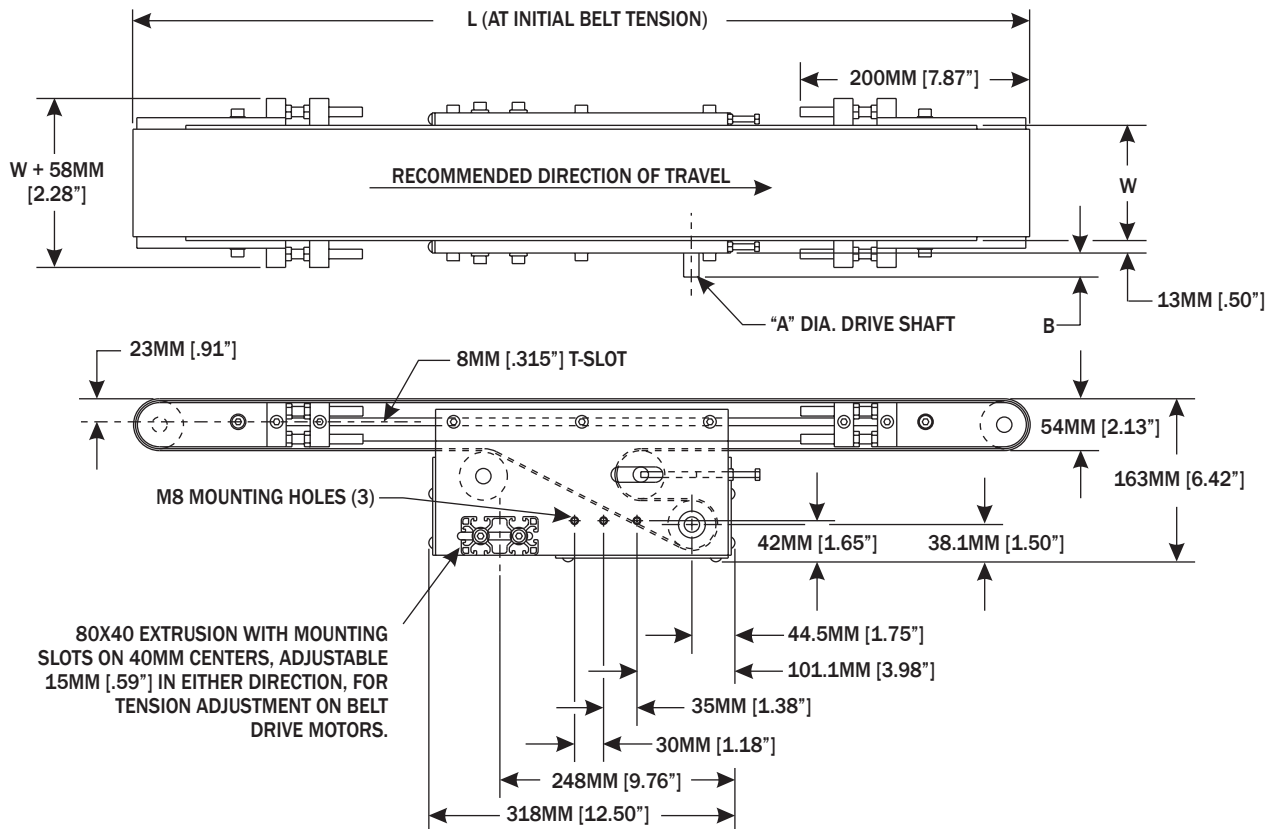


HEAVY-DUTY CONVEYORS

HEAVY-DUTY END DRIVE



HEAVY-DUTY CENTER DRIVE



BELT STYLES AND CLEATS

BELT STYLES

1. **HARD-TOP URETHANE:** The hard-top belt surface allows for product accumulation on the conveyor. Low C.O.F., F.D.A. Approved / Green, Anti-static, 1.4mm Thick, Max. Temp. 212° F.
2. **SOFT-TOP URETHANE:** A high-friction belt surface provides greater belt-to-product adhesion. This is the preferred belt for cleat attachment. High C.O.F., F.D.A. Approved / White, Anti-static, 1.4mm Thick, Max. Temp. 212° F.
3. **LATTICE-TOP FRICTION BELT:** A textured surface suitable for conveying parts up slight inclines. High C.O.F., Antistatic, 2.3mm Thick, Max. Temp. 140° F.
4. **ROUGH-TOP FRICTION BELT:** A rough surface for conveying parts up steeper inclines. High C.O.F., Anti-static, 5.5mm Thick, Max. Temp. 140° F.
5. **FDA BELT:** A general purpose belt suitable for use in food and pharmaceutical applications. High or Low C.O.F., F.D.A. Approved / White, Anti-static, 1.4mm Thick, Max. Temp 212° F.

Note: Many other belt styles are available for a wide range of special applications. Consult factory for details.

CLEATS

We offer a variety of cleats to suit many applications. Cleat styles are dependent on the belt style chosen. If your conveyor belt requires cleats, please contact us and we will determine the best cleat and belt combination for your application.

DRIVE SYSTEMS GENERAL INFORMATION

We offer a wide variety of drives to allow for many different configuration requirements. In addition to the standard drives listed on the following pages, we will supply special drives upon request.

Drives are mounted left-hand or right-hand (right-hand mounting is shown in all illustrations).

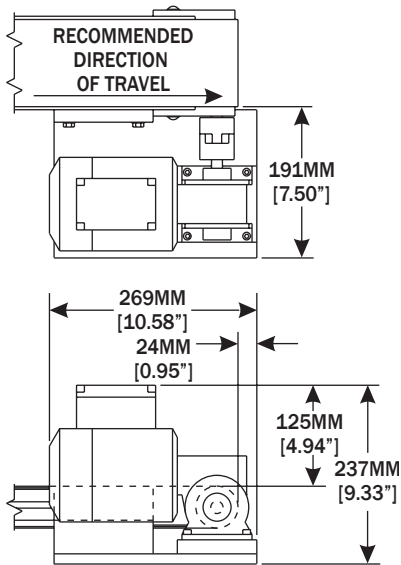
Due to the wide range of application variables (conveyor size, belt speed, accumulation, incline, etc.), please consult the factory before specifying a drive to insure it will work in your particular application.

DIRECT DRIVES

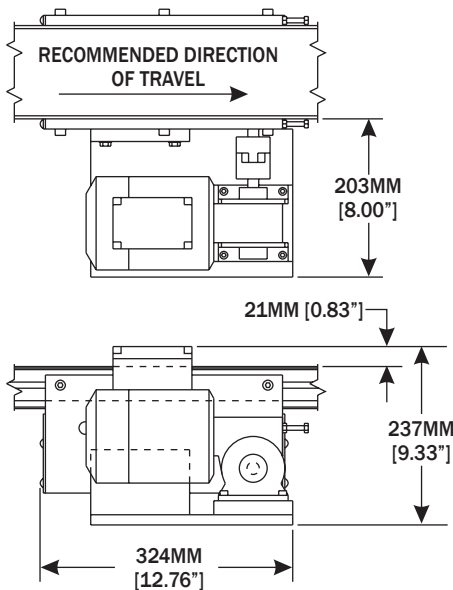
STANDARD DUTY

- Constant speed motors are 1/9HP, 1/6HP or 1/4HP. Variable speed motors are 1/8HP or 1/4HP.
- Belt speeds range from 3.6MPM (12FPM) to 53MPM (175FPM) for constant speed, 3MPM (11FPM) to 78MPM (258FPM) for variable speed.
- Load capacities average 32KG (70LB), depending upon belt speed.

STANDARD END DRIVE



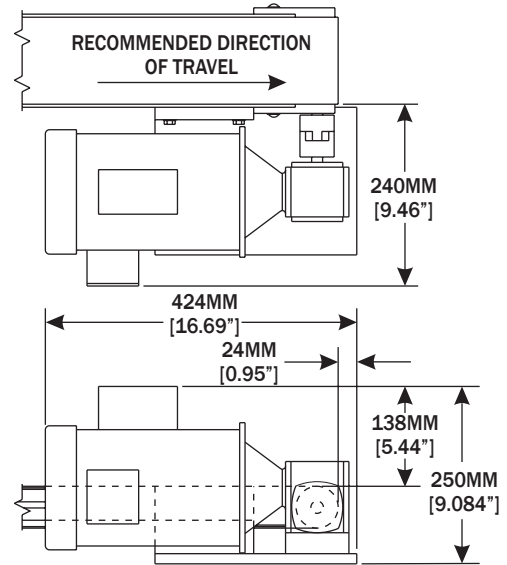
STANDARD CENTER DRIVE



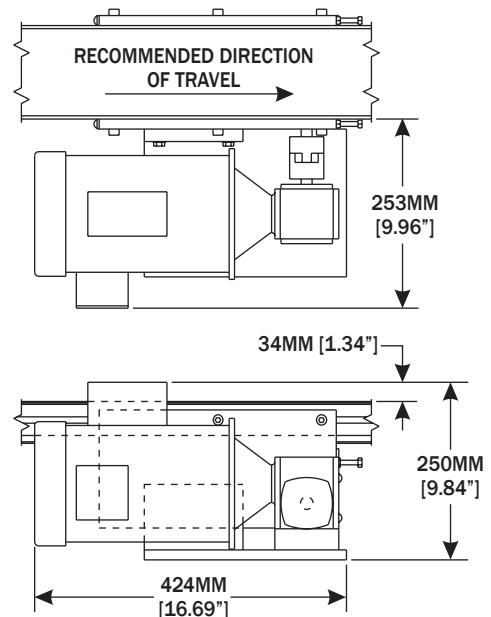
HEAVY DUTY

- Motors are 1/6HP, 1/4HP, 1/3HP or 1/2HP.
- Belt speeds range from 6MPM (18FPM) to 55MPM (180FPM).
- Load capacities average 90KG (200LB), depending upon belt request.

HEAVY-DUTY END DRIVE



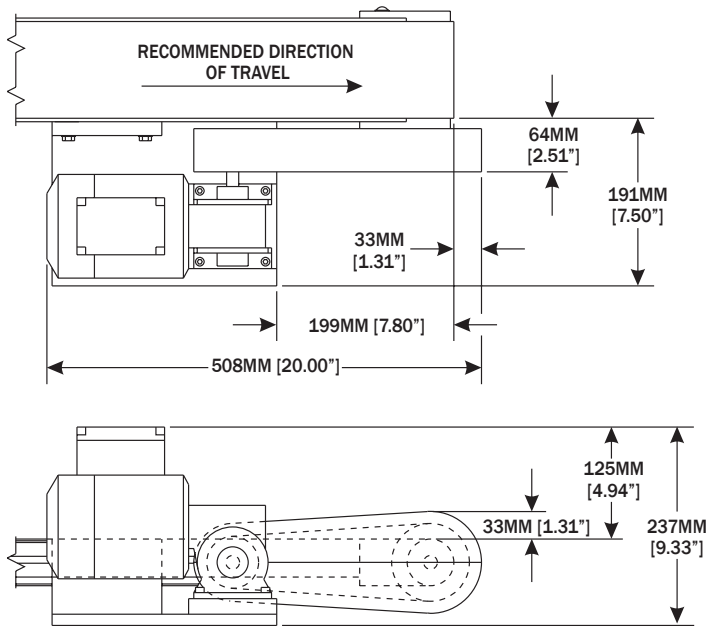
HEAVY-DUTY CENTER DRIVE



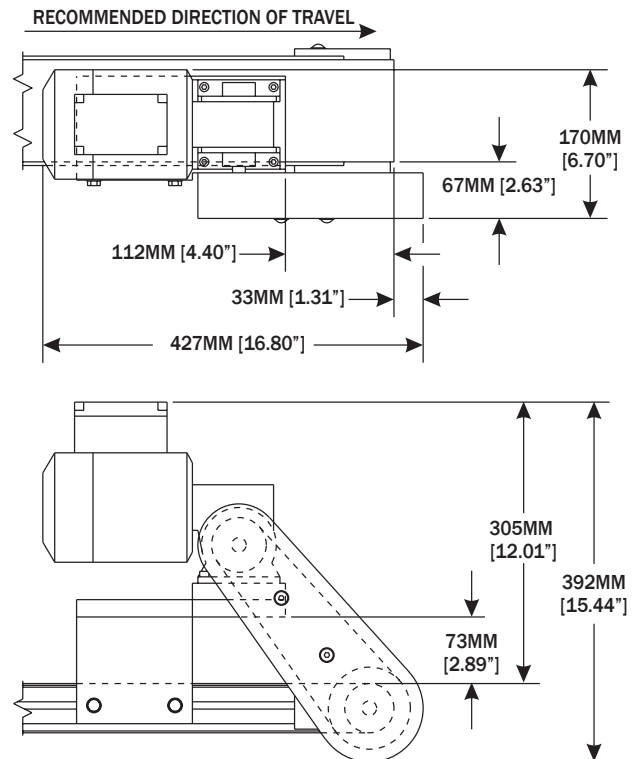
STANDARD DUTY BELT DRIVES

- Constant speed motors are 1/9HP, 1/6HP or 1/4HP. Variable speed motors are 1/8HP or 1/4HP.
- Belt speeds range from 1.5MPM (5FPM) to 53MPM (175FPM) for constant speed, 1.2MPM (4FPM) to 78MPM (258FPM) for variable speed.
- Load capacities average 45KG (100LB), depending upon belt speed.

BELT END DRIVE



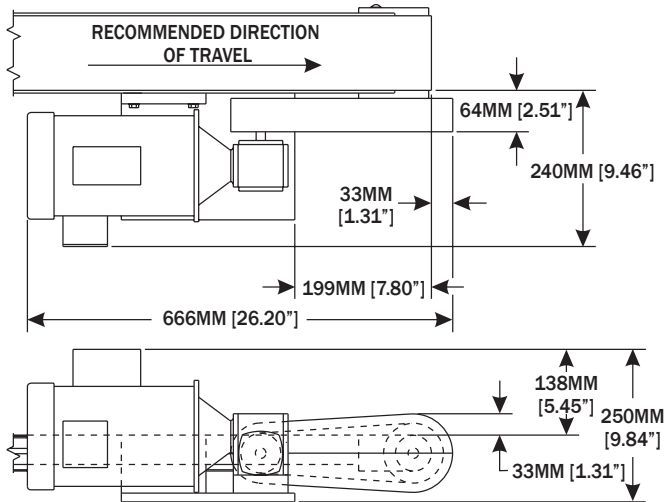
OVERHEAD END DRIVE



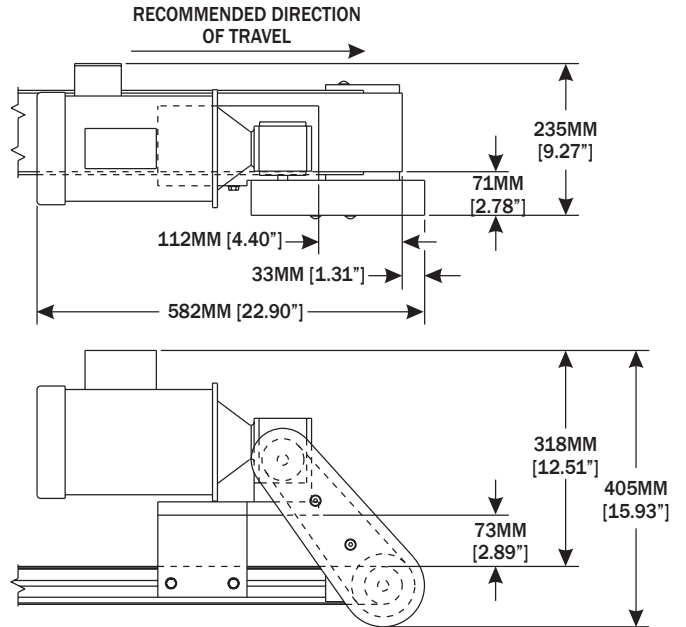
HEAVY-DUTY BELT DRIVES

- Motors are 1/6HP, 1/4HP, 1/3HP or 1/2HP
- Belt speeds range from 2.1MPH (7FPM) to 55MPM (180FPM).
- Load capacities average 90KG (200LB), depending upon belt speed.

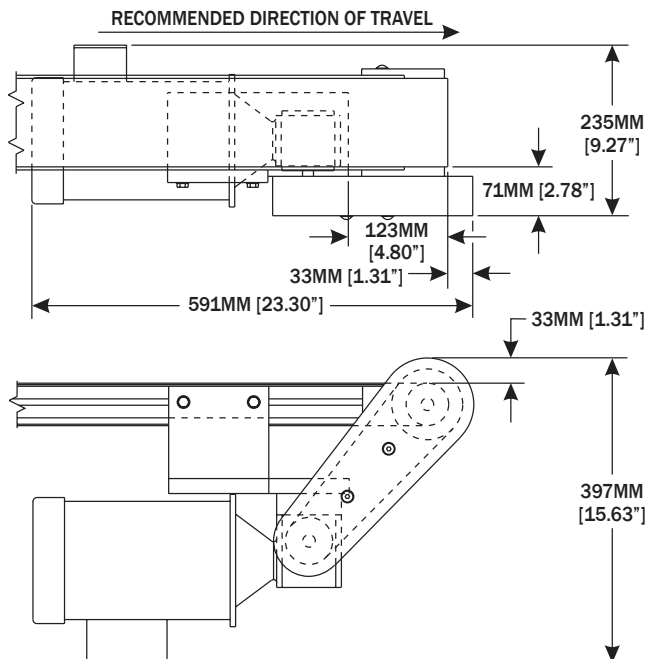
BELT END DRIVE



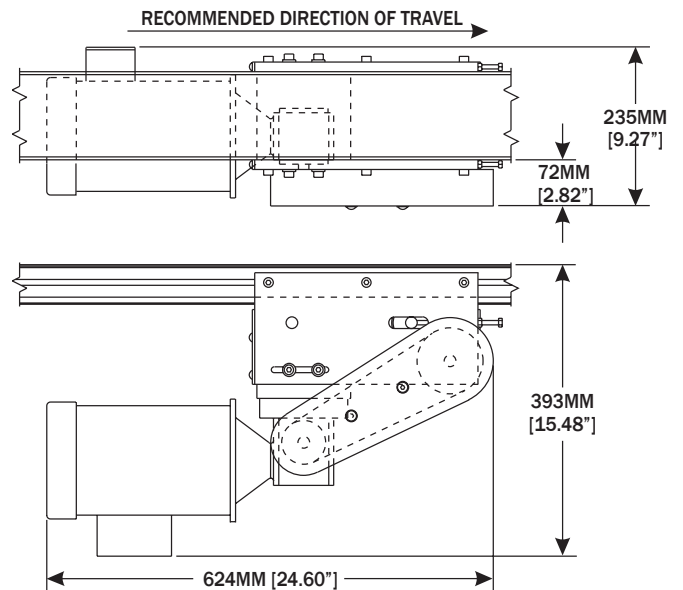
OVERHEAD END DRIVE



UNDERCARRIAGE END DRIVE



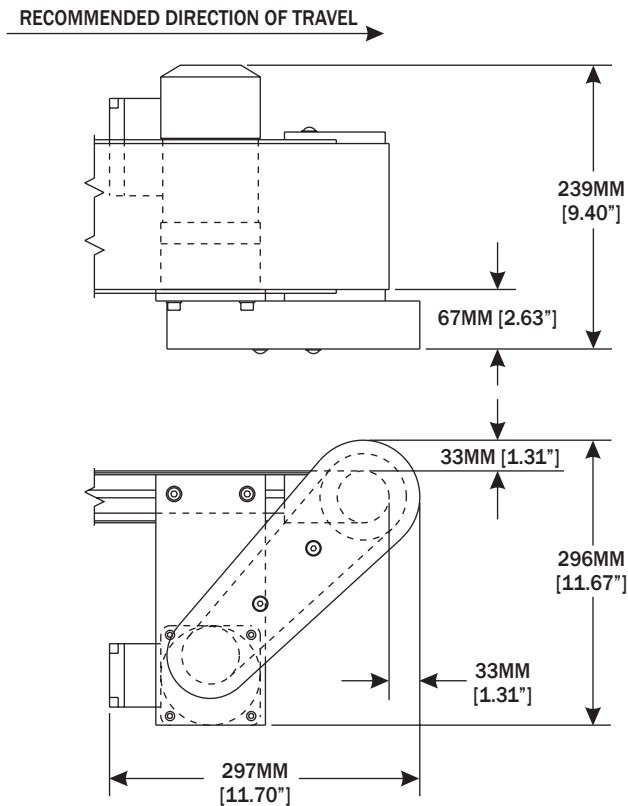
BELT CENTER DRIVE



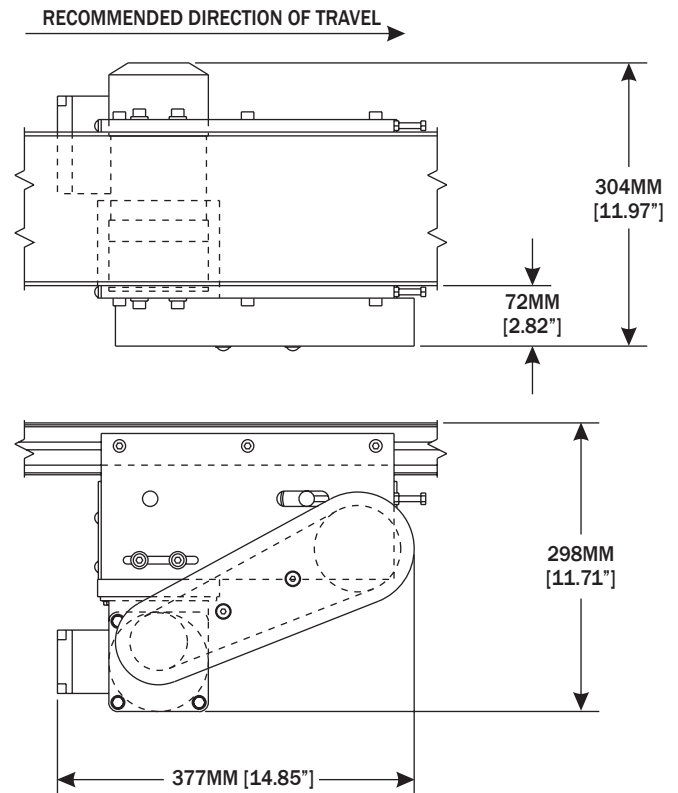
PARALLEL SHAFT BELT DRIVES

- Constant speed motors are 1/15HP or 1/9HP. Variable speed motors are 1/12HP or 1/8HP.
- Belt speeds range from 0.4MPM (1FPM) to 49MPM (160FPM) for constant speed, 0.2MPM (0.5FPM) to 104MPM (340FPM) for variable speed.
- Load capacities average 45KG (100LB), depending upon belt speed.

UNDERCARRIAGE END DRIVE



CENTER DRIVE



FLOOR STANDS

Floor stand width "W" is determined as follows: for conveyors up to 320MM wide, floor stand width is 500MM. For 400MM, 480MM, 560MM and 640MM wide conveyors, floor stand width is 180MM wider than the conveyor width.

Adjustable / incline stands are available with adjustable height only, or adjustable height and incline angle (incline configuration shown above). Incline is adjustable from 0 to 90 degrees.

Connecting bars are available between stands to add rigidity to conveyor systems.

Minimum belt heights:

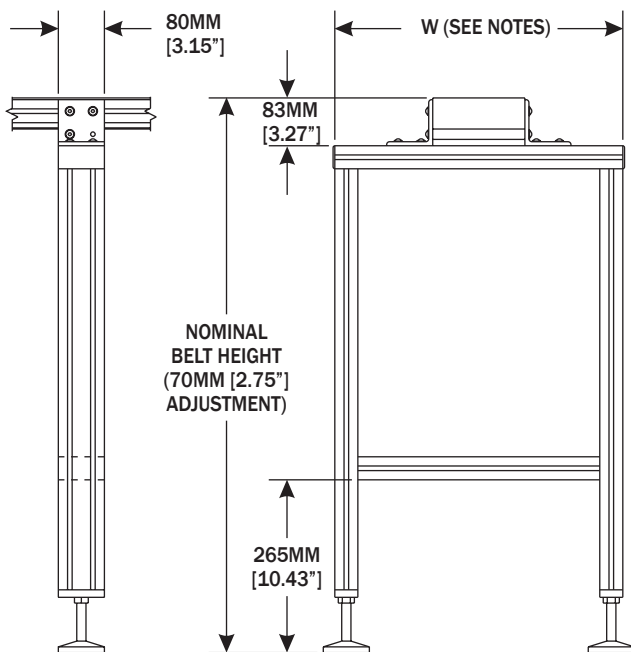
Standard stands = 230MM (9.06")
Adjustable stands = 605MM (23.8")

Other stand configurations are available upon request.

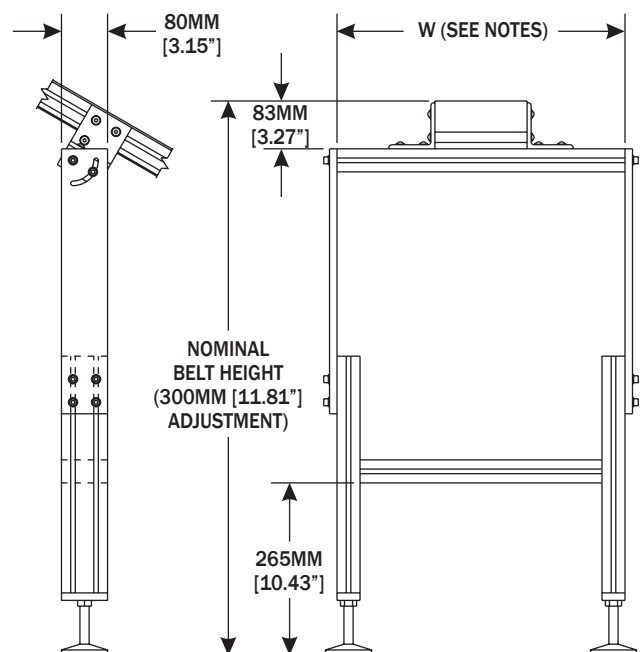
To order, specify:

- Stand type (Standard, Adjustable Height or Adjustable Incline)
- Nominal belt height
- Leveling screws, leveling feet, or casters

STANDARD FLOOR STAND

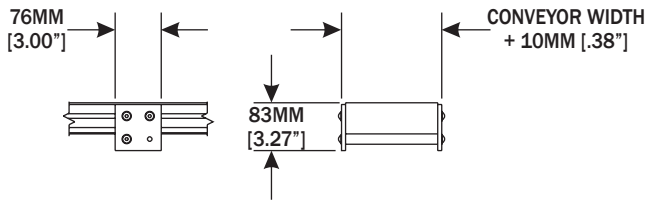


ADJUSTABLE/INCLINE FLOOR STAND

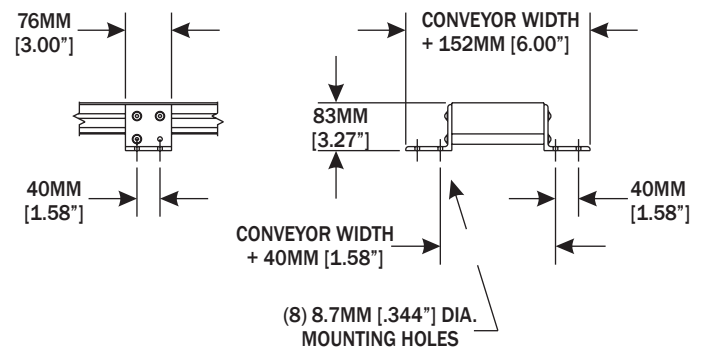


RETURN ROLLER ASSEMBLIES

FLAT RETURN ROLLER



ANGLE RETURN ROLLER

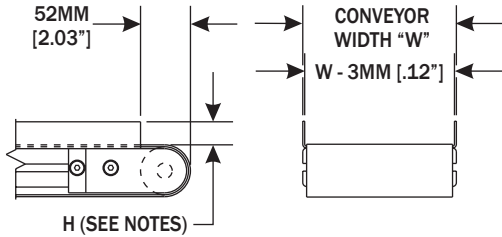


Unless otherwise specified, all non-cleated conveyors are supplied with angle return roller assemblies.

To order, specify return roller type (flat or angle).

SIDE RAIL ASSEMBLIES

FIXED SIDE RAIL



Fixed side rails are 16 ga. stainless steel and are available in any height "H" from 13MM (.50") and higher.

To order fixed rails, specify the desired rail height.

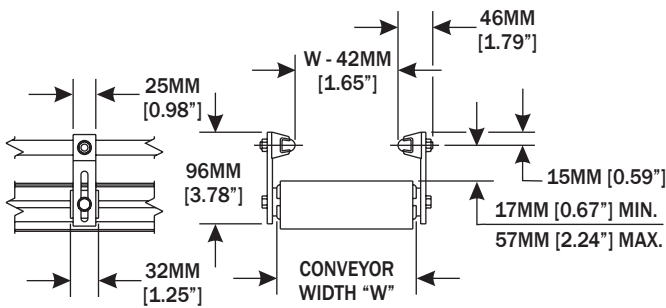
Adjustable side rails are stainless steel reinforced UHMW, and are available in a round face (shown on 2-way adjustable rail illustration) or a 25MM (1.00") wide flat face (shown on 4-way adjustable illustration).

To order adjustable side rails, specify:

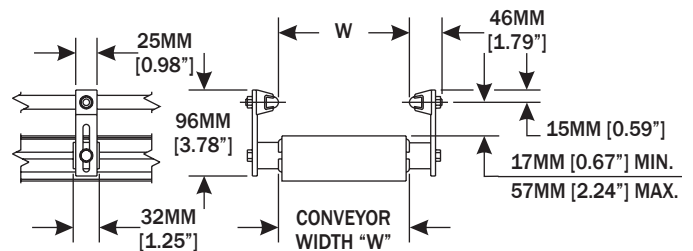
- 2-way or 4-way adjustable
- Round or flat face rail
- Narrow or wide rail width

Other side rail configurations are available upon request.

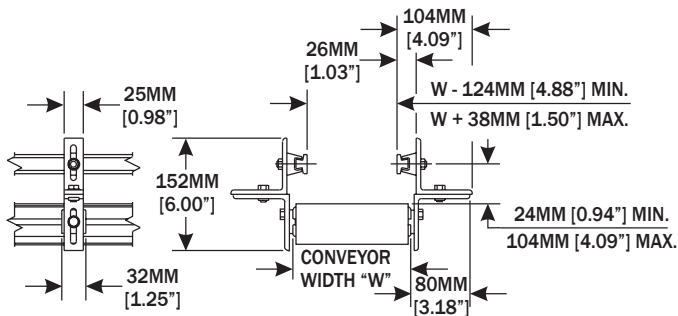
2-WAY ADJUSTABLE RAIL, NARROW



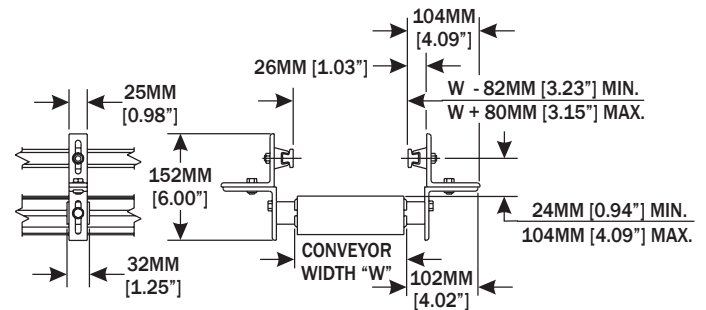
2-WAY ADJUSTABLE RAIL, WIDE



4-WAY ADJUSTABLE RAIL, NARROW



4-WAY ADJUSTABLE RAIL, WIDE

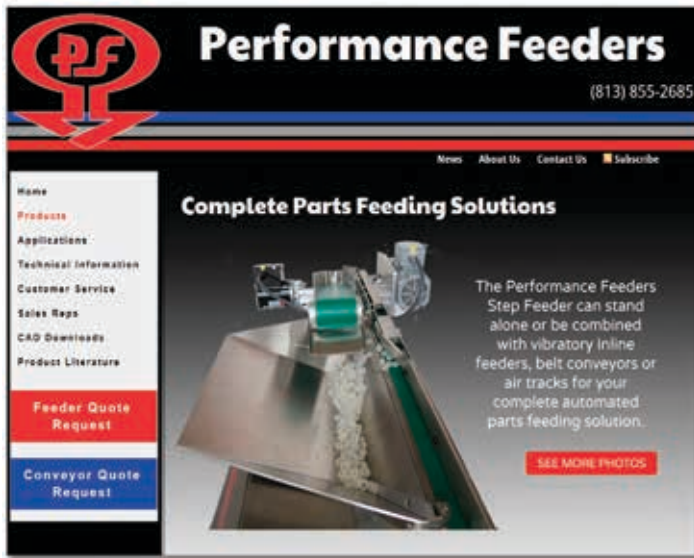




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