



## Common Drive Kits

### Features:

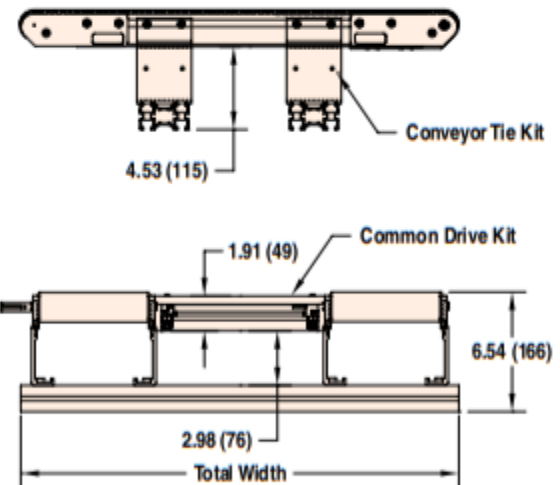
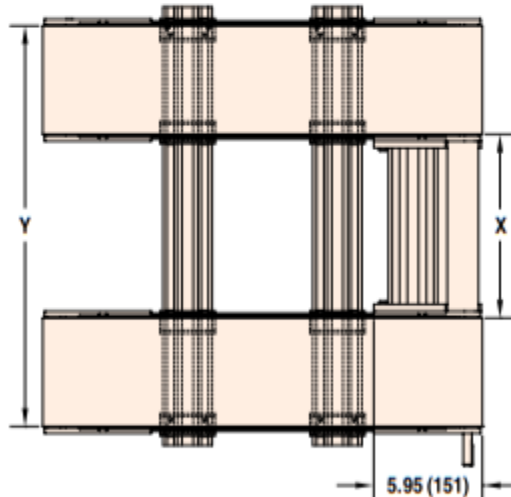
- Exact speed match conveyors
- Cleats stay in time
- Parts can be wider than conveyor
- Conveyors can be different widths & lengths
- Minimum width (x) = 2.65" (67 mm) belt to belt
- Maximum width (y) = 48" (1,219 mm) belt to belt
- Maximum number of conveyors = 3
- Maximum total torque = 100 in-lbs
- Keyless coupling allows belt synchronization between conveyors
- Includes shafts, couplings and guards
- Conveyor tie kits ordered separately



**Common Drive (Fixed Width)**

### Benefits:

- Keeps parts from skewing
- Save money by using less drives



#### 2200 PRECISION MOVE: COMMON DRIVE KIT

202433 - GGGGG

Gap Between Belt Edges (X):  
00265 (2.65") to 04800 (48.00")

**Note:** One kit must be ordered for each pair of conveyors

#### Kit Includes:

- Shafts, couplings and guards
- Rigid tie plate for alignment

#### 2200 PRECISION MOVE: COMMON DRIVE TABLE MOUNT TIE KIT

39MCT - WW - Y

Number of Conveyors: 1 to 6  
Total Width: 02 to 48

#### Kit Includes:

- Conveyor mounting brackets
- Support extrusion



## Precision Move Servo Gearmotor

### Features:

- Standard bottom and flush mount bottom drive configurations
- Indexes per minute rating = 100 per minute
- Conveyor/Drive Package Index accuracy =  $\pm 0.040$

### Motor:

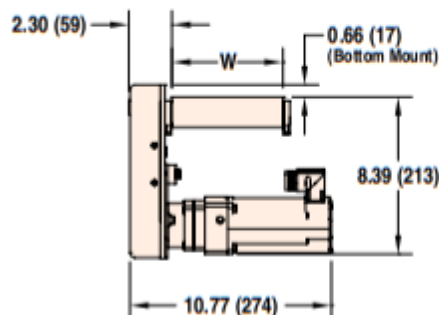
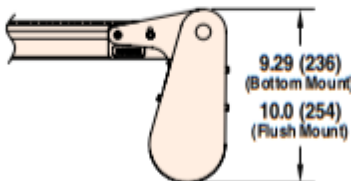
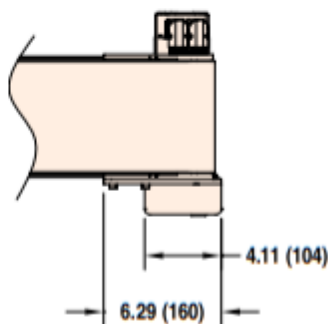
- Kollmorgen AKM Series Motor
- Brushless DC Servomotor with encoder
- 80 mm Frame
- 1.02 kW
- Up to 640 VDC input
- Up to 2.62 amps
- Quick disconnect power and communication fittings
- UL, CE, RoHS Compliant

### Gearbox:

- Inline Planetary Reducer
- 4:1 Ratio
- 93% efficient
- 13 arc-minute backlash
- 20,000 hr rated
- RoHS compliant



Part Number	Controller Voltage	Max Belt Speed (Ft/min)		Min Belt Speed (Ft/min)	Torque (in-lb)	RPM
		Bottom Mount	Flush Mount			
22M004PR2B1KW	115V input	166	253	10	79	325
	230V input	276	420	10	79	625



## Precision Move Servo Bottom and Flush Mount Package

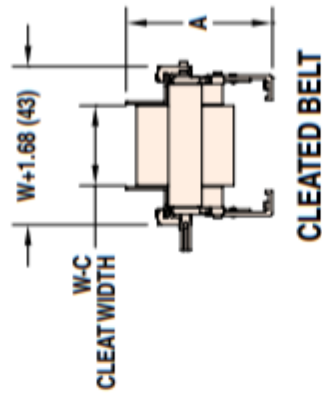
### Features:

- Capable of standard bottom mount position and flush mount for wide product handling
- Includes rack and pinion timing belt tension system providing reversing capability
- Includes high strength timing belt drive pulleys

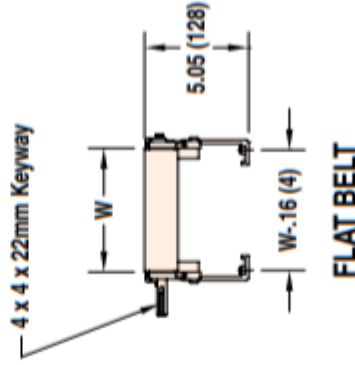
Description	Motor / Gearhead	Part Number	Gearmotor Pulley	Conveyor Pulley
Bottom Mount	Servo Gearmotor	202436-A*	36 tooth	32 tooth
Flush Mount	Servo Gearmotor	202437-A*	36 tooth	21 tooth
Bottom Mount	Nema 34 Gearhead	202436-A*	36 tooth	32 tooth
Flush Mount	Nema 34 Gearhead	202437-A*	36 tooth	21 tooth

\*A = Mount position (A, B, C, D)

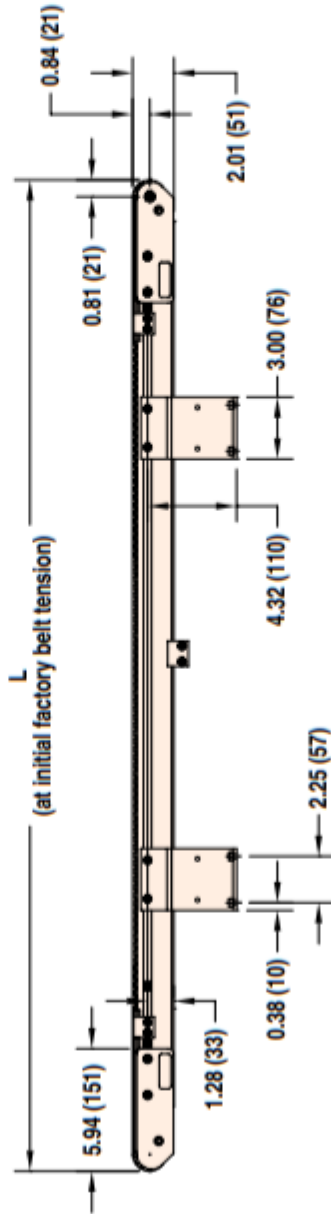
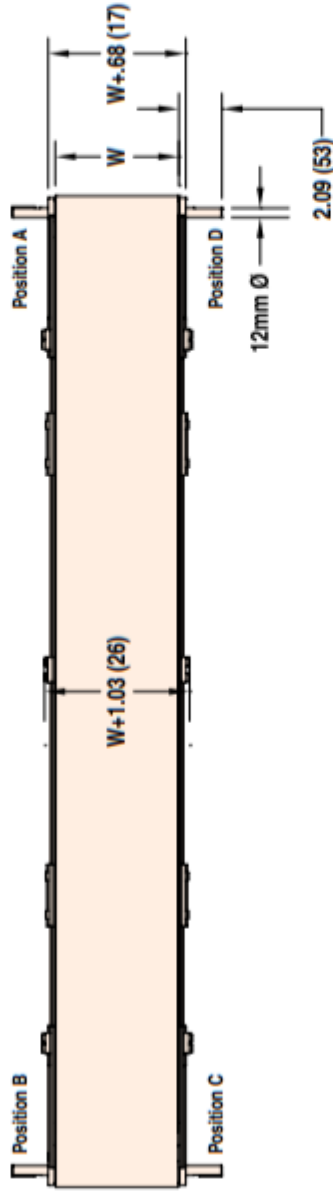




A = 6.10 (155) for 1" HIGH SIDES  
 7.10 (180) for 2" HIGH SIDES  
 C = 1.12 (29) for conveyors up to 8" widths  
 2.12 (54) for conveyors in 12" - 24" widths



W = Conveyor Belt Width Dim = in (mm)

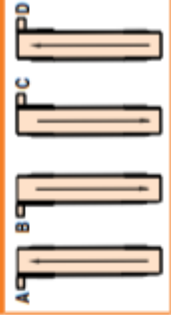


**STANDARD SIZES**

Conveyor Width Reference	02	03	04	06	08	12	18	24
Conveyor Belt Width (W)	1.75" (45mm)	2.75" (70mm)	3.75" (95mm)	6.0" (152mm)	8.0" (203mm)	12.0" (305mm)	18.0" (457mm)	24.0" (607mm)
Conveyor Length Reference	0150	0001 increments up to ...						
Conveyor Length (L)	1.5' (457mm)	0.1" (2.54mm) increments up to ...						
Conveyor Length (L)	3000	30' (9,144mm)						

**NOTE:** Actual conveyor length may need to be adjusted to match belt pitch.

**DRIVE SHAFT POSITION**



All positions available with no loss in carrying capacity.

# 2200 & 2300 SERIES: FLAT BELT MID DRIVE



## Specifications:

- Loads up to 200 lbs\* (91 kg)
- Belt speeds up to 370 ft/min (113 m/min)
- Belt widths: 1.75" (44 mm) to 24" (610 mm)
- Conveyor lengths: 18" (457 mm) to 30' (9,144 mm)
- 2" (51 mm) pitch diameter drive pulley turns approximately 6.3" (160 mm) of belt per revolution
- T10 profile cogged belt with 16 tooth drive pulley
- Conveyor mechanical accuracy  $\pm 0.02^\circ$
- Drive shaft options
  - 12 mm diameter integral drive shaft
  - 16 tooth 0.5" diameter hollow spline drive
- CE models available

\* Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.



## Features & Benefits:

- High load capacity positive drive no slip belting
- Cogged belt and side guides provide worry free belt tracking
- T-slots make mounting accessories simple with no drilling or special tools
- Mid mount can be positioned along conveyor frame
- Mid mount frees up both ends of conveyor for operator and machine interface
- Ability to drive multiple conveyors with Gang drive option
- Thru shaft available for gang drives (adjustable spacing)
- Gang drive conveyors run at exact same speed keeping wide parts in alignment
- Rack and pinion belt tensioning for fast, accurate single-point belt tensioning
- Available with standard bottom and side drive packages
- Strong, box-like construction resists damaging frame twist
- Aluminum die cast head plates eliminate painted surfaces

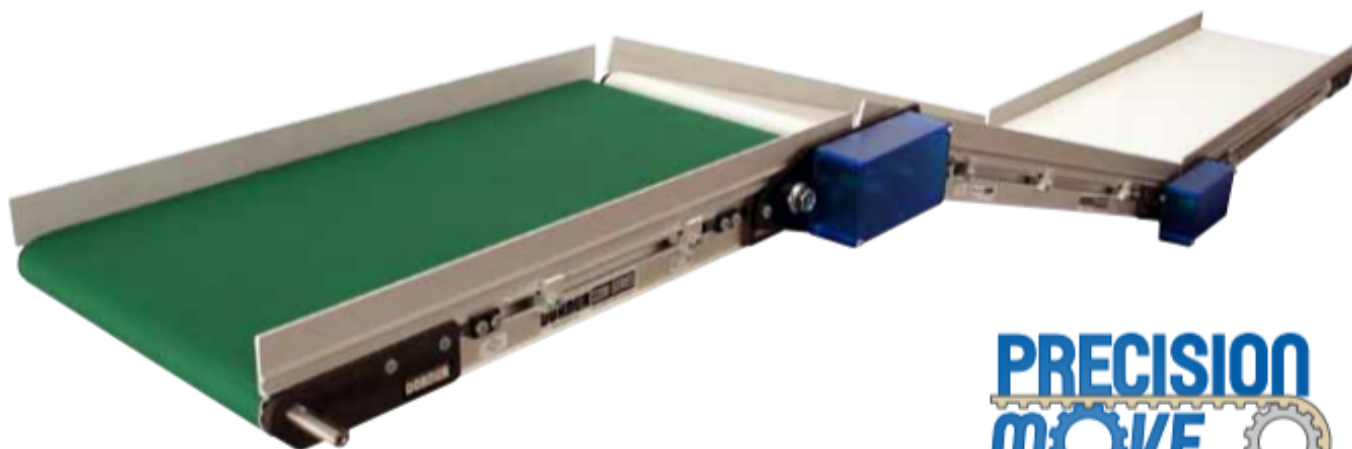
### Gang Drive with Adjustable Spacing



(see page 32)

Order gearmotor mounting packages and gearmotors separately, see pages 40-61.  
For support stands and accessories, see pages 62-73.

For ordering information, see page 78



## Slave Drive Configurations

### Features:

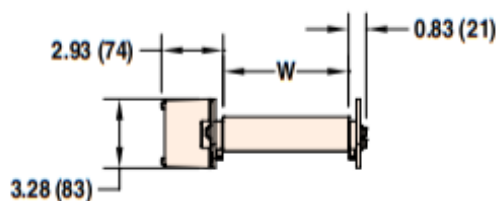
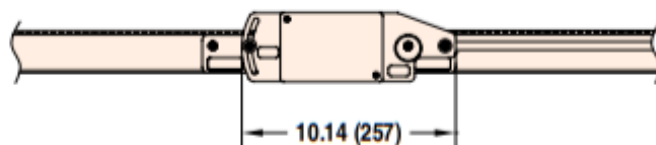
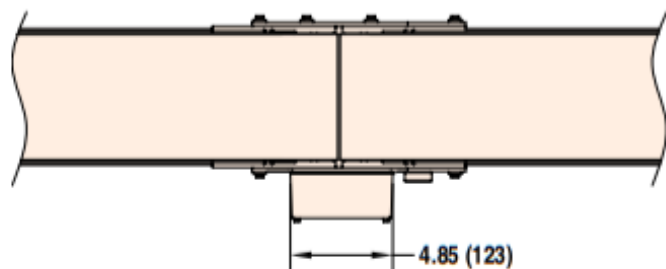
- Link multiple conveyors with 1 drive
- Adjustable angle from 0° to 25°
- Variety of timing belt ratios available
- 1:1, 1.27:1, 1.75:1, 2:1 can be used to speed or slow down the conveyor
- Pull or close gaps between product
- Change belt types on each conveyor
- Includes tie plates, pulley kit, tension adjustment and guard
- Maximum number of conveyors = 3

### Benefits:

- Save money by using less drives
- Flexibility to create your solution
- Utilize low, high friction belts, and/or multiple speeds in a single configuration



Slave Drive Kit



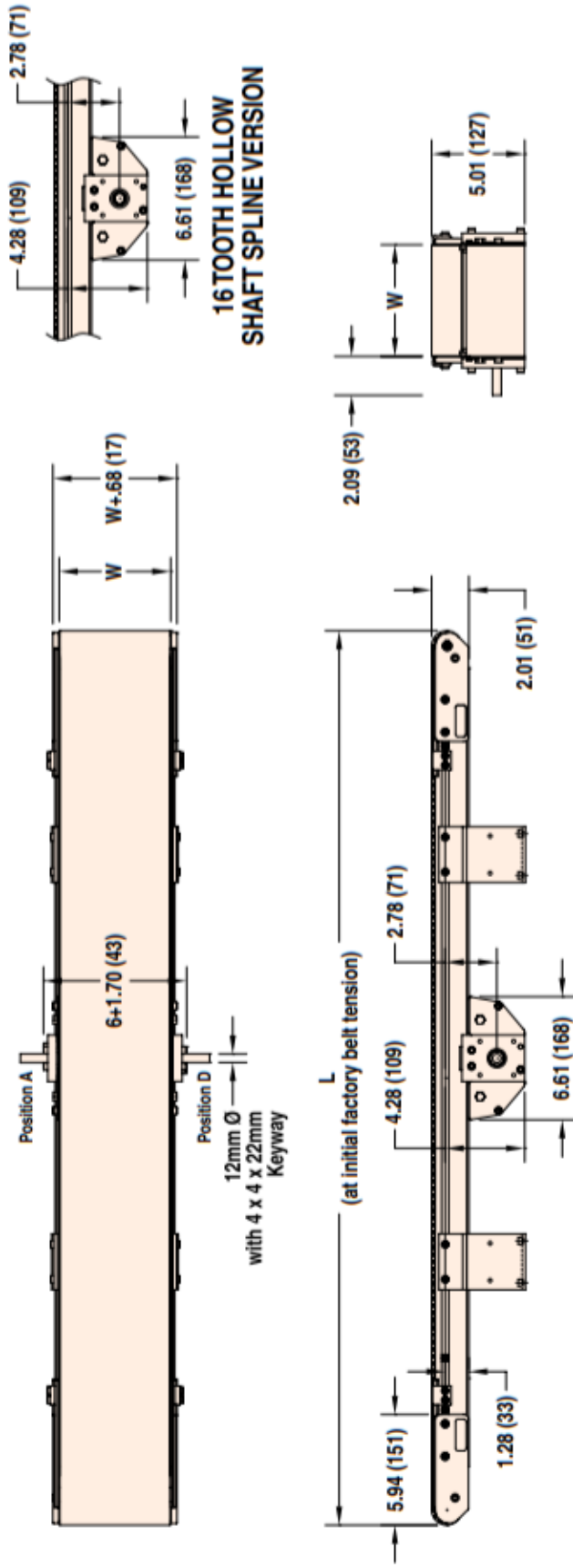
Part Number	Drive Teeth	Driven Teeth	Infeed Conveyor Speed Condition
202363-1632	16	32	2X Speed Up
202363-1628	16	28	1.75X Speed Up
202363-2228	22	28	1.27X Speed Up
202363-2222	22	22	Same Speed
202363-2822	28	22	0.78X Slow Down
202363-2816	28	16	0.57X Slow Down
202363-3216	32	16	2X Slow Down

**Note:** Not for cleated belt applications

### Kit Includes:

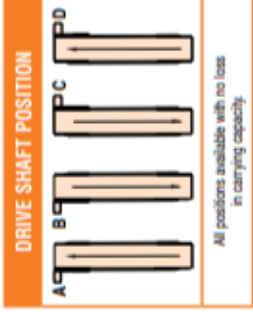
- Tie plates for both sides of conveyor
- Timing belt / pulleys and guard

**2200 PRECISION MOVE: FLAT BELT MID DRIVE**



**W** = Conveyor Belt Width **Dim** = in (mm)

STANDARD SIZES									
Conveyor Width Reference	02	03	04	06	08	12	18	24	
Conveyor Belt Width (W)	1.75" (45mm)	2.75" (70mm)	3.75" (95mm)	6.0" (152mm)	8.0" (203mm)	12.0" (305mm)	18.0" (457mm)	24.0" (607mm)	
Conveyor Length Reference	0150	0001 increments up to ...							
Conveyor Length (L)	1.5' (457mm)	0.1" (2.54mm) increments up to ...							



**NOTE:** Actual conveyor length may need to be adjusted to match belt pitch.

# 2200 PRECISION MOVE: FLAT & CLEATED BELT END DRIVE



## Specifications:

- Loads up to 200 lbs\* (91 kg)
- Belt speeds up to 370 ft/min (113 m/min)
- Belt widths: 1.75" (44 mm) to 24" (610 mm)
- Conveyor lengths: 18" (457 mm) to 30' (9,144 mm)
- 1.5" (38 mm) pitch diameter drive pulley turns approximately 4.7" (121 mm) of belt per revolution
- T10 profile cogged belt with 12 tooth drive pulley
- Conveyor mechanical accuracy  $\pm 0.02$ "
- Conveyor package w/servo motor index accuracy  $\pm 0.04$ "
- 12 mm diameter integral drive shaft
- **CE** models available

\*Conveyor load capacity depends on conveyor size, incline, motor position, accumulated loads and other factors.



## Features & Benefits:

- High load capacity positive drive no slip belting
- Cogged belt and side guides provide worry free belt tracking
- No capacity drop when pushing belt
- Use optional cleats to create pockets for controlled part flow
- Rack and pinion belt tensioning for fast, accurate single-point belt tensioning
- T-slots make mounting accessories simple with no drilling or special tools
- Ability to drive multiple conveyors with Common and Slave Options
- Common drive conveyors run at exact same speed keeping wide parts in alignment
- Optional dual or idler end output shafts
- Slave driven conveyors can run at same speed or different speeds for gapping and pacing
- Compatible with standard drive packages
- Available with servo motor and mounts for increased accuracy of index
- Strong, box-like construction resists damaging frame twist
- Aluminum die cast head plates eliminate painted surfaces

## Common, Slave, and Servo Positioning Applications



(see pages 30-33)

Order gearmotor mounting packages and gearmotors separately, see pages 40-61.  
For support stands and accessories, see pages 62-73.

For ordering information, see pages 77 and 78



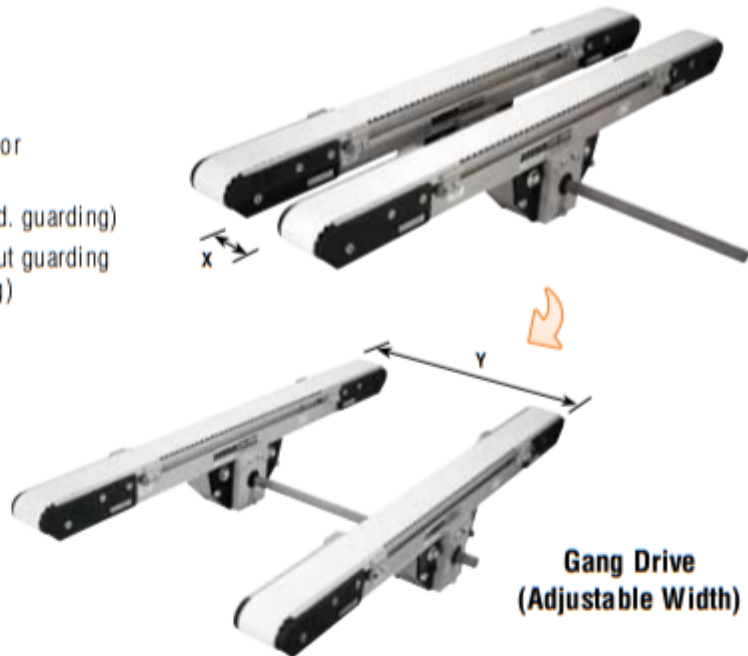
## Mid Drive Gang Driven Conveyors

### Features:

- Adjustable for various product widths
- Drive moveable between tails
- Frees up ends of conveyor
- Conveyor center distances can be moved while conveyor is running
- Minimum width (x) = 4" (101 mm) belt to belt (with std. guarding)
- Minimum width (x) = 1.75" (45 mm) belt to belt without guarding (end user responsible for point of installation guarding)
- Maximum width (y) = 48" (1,219 mm) belt to belt
- Maximum total torque = 80 in-lbs
- Compatible with side mount gearmotor package
- Requires 1/2" diameter 16 tooth spline drive shaft

### Benefits:

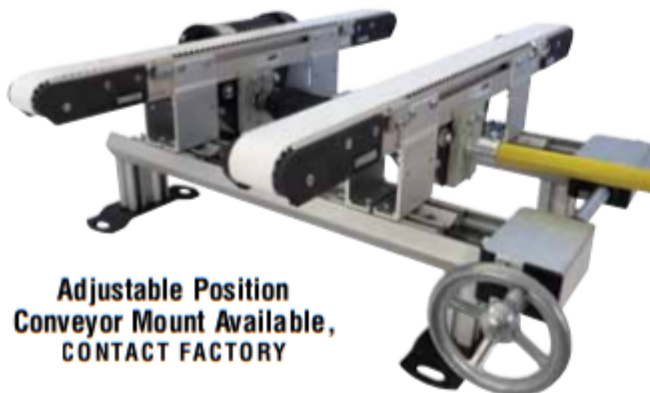
- Flexibility to adjust to various product sizes
- Save money by using less drives
- Frees up ends of conveyors



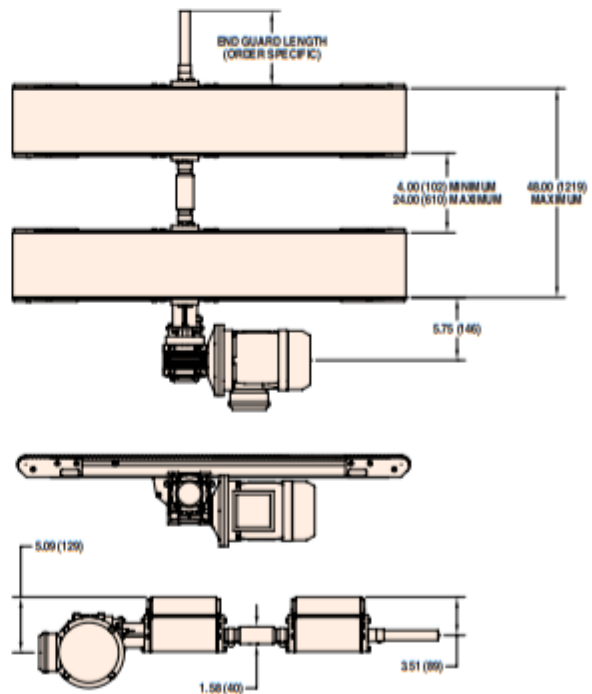
## Gang Drive Side Mount Package

### Features:

- Compatible with all standard load and heavy load 90° gearmotors
- Conveyor position is adjustable along length of spline drive shaft
- Includes shafts, couplings, and expandable shaft guarding
- Mount package is attached to the first conveyor
- Maximum number of conveyors = 3
- Maximum total torque = 80 in-lbs



**Adjustable Position  
Conveyor Mount Available,  
CONTACT FACTORY**



**Refer to page 49 for belt speed options.**  
Due to the wide variety of drive set ups and applications, point of installation guarding is the responsibility of the end user.