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Belt Conveyors & Merges: **BM4081 (HD)**

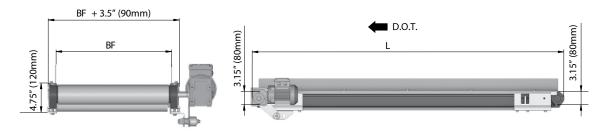
> Interroll Belt Conveyor BM 4081 (HD)



BM4081 (HD)

Technical Data

Max. load capacity	35 lb/ft (50 kg/m)	
Conveyor speed	20 to 200 ft/min (0.10 to 1.0 m/s)	
Inclined/declined	Not suitable	
Ambient temperature	+25 to +105 °F (-5 to + 40 °C)	
Drive		
Available voltage	230 V / 60 Hz / 1 phase	
	480 V / 60 Hz / 3 phase	
Motor type	Max. 1.0HP/.75kW drum motor or shaft-mounted gear motor	
Diameter of drive roller	3.15" (80mm)	
Diameter of idler roller	3.15" (80mm)	
Bearings	Flange bearing, above 150 ft/min	
	Self-aligning ball bearing, up to 150 ft/min	
Materials		
Conveyor belt	Two-ply polyester fabric with PVC cover	
Slider bed	Galvanized steel	
Drive/idler roller	Aluminum extrusion with steel axles	
Support legs	Fabricated steel or extruded aluminum, height adjustable	
Side frame		
Side frame	Aluminum extrusion, height 4.75" (120mm)	
Jide Italile	, definition extresion, neight 13.6 (120mm)	





Arrow indicates direction of travel shown with optional gear motor.

Dimensions

Width (BF)	12", 16", 20", 24", 30"
Conveyor length (L)	30" to 400" (762mm to 10,000mm)

Belt Conveyors & Merges: BM4081 (CD)

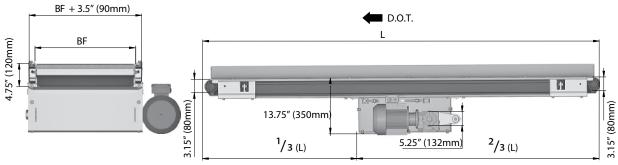
> Interroll Belt Conveyor BM 4081 (CD)



BM4081 (CD)

Technical Data

Max. load capacity	35 lb/ft (50 kg/m)	
Conveyor speed	20 to 400 ft/min (0.10 to 2.0 m/s)	
Inclined/declined	Not suitable	
Ambient temperature	+25 to +105 °F (-5 to + 40 °C)	
Drive		
Available voltage	230 V / 60 Hz / 1 phase	
	480 V / 60 Hz / 3 phase	
Motor type	Max. 5.0HP/3kW drum motor or shaft-mounted gear motor	
Diameter of drive roller	5.25" (132mm)	
Diameter of idler roller	3.15" (80mm)	
Bearings	Flange bearing, above 150 ft/min	
	Self-aligning ball bearing, up to 150 ft/min	
Materials		
Conveyor belt	Two-ply polyester fabric with PVC cover	
Slider bed	Galvanized steel	
Drive/idler roller	Aluminum extrusion with steel axles	
Support legs	Fabricated steel or extruded aluminum, height adjustable	
Side frame		
Side frame	Aluminum extrusion, height 4.75" (120mm)	
Side guards (optional)	Fabricated steel or aluminum extrusion	





Arrow indicates direction of travel shown with optional gear motor.

Dimensions

Width (BF)	12", 16", 20", 24", 30"
Conveyor length (L)	60" to 1200" (1500mm to 30,000mm)

Belt Conveyors & Merges: BM4081 (CD) Incline/Decline

> Interroll Belt Conveyor BM 4081 (CD) Incline/Decline

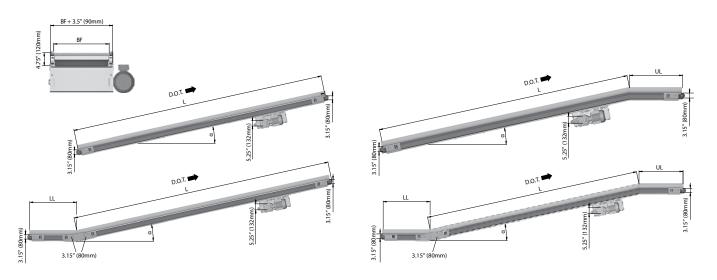


BM4081 (CD) INCLINE/DECLINE

Technical Data

Max. load capacity	35 lb/ft (50 kg/m)	
Conveyor speed	20 to 400 ft/min (0.10 to 2.0 m/s)	
Inclined/declined	Suitable	
Ambient temperature	+25 to +105 °F (-5 to + 40 °C)	
Drive		
Available voltage	230 V / 60 Hz / 1 phase	
	480 V / 60 Hz / 3 phase	
Motor type	Max. 5.0HP/3kW drum motor or shaft-mounted gear motor	
Diameter of drive roller	5.25" (132mm)	
Diameter of idler roller	3.15" (80mm)	
Bearings	Flange bearing, for speeds over 150 ft/min	
	Self-aligning ball bearing, for speeds up to 150 ft/min	
Materials		
Conveyor belt	Two-ply polyester fabric with logitudinally grooved cover	
Slider bed	Galvanized steel	
Drive/idler roller	Aluminum extrusion with steel axles	
Support legs	Fabricated steel or extruded aluminum, height adjustable	
Side frame		
Side frame	Aluminum extrusion, height 4.75" (120mm)	
Side guards (optional)	Fabricated steel or aluminum extrusion	

Dimensions





Arrow indicates direction of travel shown with optional gear motor.

Belt Conveyors & Merges:

Belt Merge

Multi Conveyor Merging Operations

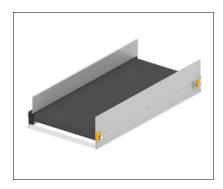
When You Need To Merge Two or More Conveyor Lines.

The Most Reliable - Belt Merge Conveyors from Interroll!



Interroll Belt Merge Conveyors facilitate the merging of two or more conveyor lines into a single product transport line and provide a solution to belt tracking problems found whenever a short wide belt conveyor is utilized.

Manufactured by the world's most reliable producer of specialty conveyor equipment, Belt Merge Conveyors eliminate side load tracking problems encountered on regular belt conveyors. These units are specially designed for manufacturing, warehouse/distribution center and airline baggage applications. An optional series of fixed position bed idler rollers allows for the safe, smooth transition of extra-heavy product loads.



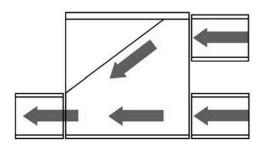
BELT MERGE

Technical Specifications

Max. Load Capacity	50 lbs/ft	
Max. Conveyor Load	500 LBS	
Conveyor Speed At CL	0 - 568 fpm	
	5° - 176° F	
Ambient temperature	3 - 1/0 F	
D: D.		
Drive Data	4007 / 50117 / 2011	
Rated Voltage	400V / 50HZ / 3PH	
	460V / 60HZ / 3PH	
Power	.5HP - 7.5HP	
Motor Type	Gear Motor	
Drive Mount	Shaft Mounted	
End Roll Diameter	6 in	
Materials		
Belt Material	PHR 3-135 MF FR BB x BB	
Construction	10 gauge / 3mm	
Shaft Size	1 15/16"	
Drive Chain	Tsubaki #50 0r #60	
Finish	RAL DTM	
Bearings	Peer MHS	
Dimensions		
Frame Height	10-5/8 in / 270mm	
Lenght	60" - 360"	
LW Clearance (BSG)	10-5/8 in / 270mm	
Min TOB Height	10-5/8 in / 270mm	
Side Guards	0" - 12"	
Options		
Underguarding	Expanded Metal	
	Solid Metal Pinned	
	Solid Steel	
	Plastic Mesh	
Drive Mount Styles		
Drive Mount Styles Support	2" Square tubing	
	2" Square tubing 3" Square tubing	
	3" Square tubing	

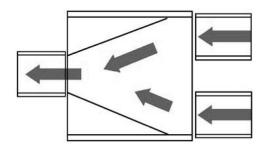
Single Chain Merge Application

(Lateral force on belt in one direction only)



Double Chain Merge Application

(Lateral force on belt in two directions)



Diverters

Fixed diverters are custom-designed for your installation.



Positive Drive Belt System

The conveyor belt is positively driven by a shaft mounted sprocket engaging a precision sidebow chain which is attached directly to the outside edge of the belt. This positive drive system is unaffected by changes in loading, tension, temperature, humidity, and foreign material on the belt. The positive drive belt system ensures continuous, reliable operation even in harsh and difficult environments with minmal maintenance.



Note: the above models are examples only. Each conveyor is custom designed for your application.

Belt Conveyors & Merges:

Angle Merges

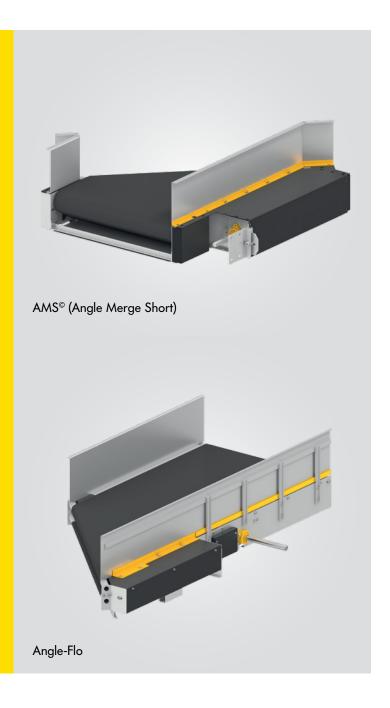
Merging Diverging Operations

For merging or diverging operations, Interroll has what you are looking for.

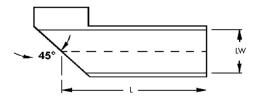
Interroll Angle Merge Conveyors facilitate the merging or diverging of two conveyor lines in a smooth and efficient manner.

Key Features include:

- Low friction angle bar
- 30 (Angle-Flo only) or 45 degree angles
- Spring take-up tension system (Angle-Flo only)
- Quiet operation
- Smooth positive angular transfer of products
- Simple belt tracking system
- Low maintenance
- Heavy duty steel construction
- Transfers small products
- Laced belt for quick change



ANGLE MERGES



Merge Model Dimensions

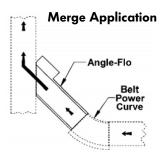
Model	AXL	AX	AXH	AMS®
General Technical Data				
Max Load Capacity	40 lbs/ft	40 lbs/ft	40 lbs/ft	40 lbs/ft
Max Conveyor Load	10 1207 11	10 100/11	10 100 11	
Conveyor Speed At CL	75 - 140 fpm	75 - 350 fpm	75 - 350 fpm	75 - 350 fpm
Merge Angle	45 or 30 Degrees	45 or 30 Degrees	45 or 30 Degrees	45 Degree
Direction	Merge / Diverge	Merge / Diverge	Merge / Diverge	Merge / Diverge
Ambient Temperature	5° - 176° F	5° - 176° F	5° - 176° F	5° - 176° F
Drive Data				
Rated Voltage	400V / 50HZ / 3PH	400V / 50HZ / 3PH	400V / 50HZ / 3PH	400V / 50HZ / 3PH
u ronage	460V / 60HZ / 3PH	460V / 60HZ / 3PH	460V / 60HZ / 3PH	460V / 60HZ / 3PH
	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH
Power	.5HP - 2HP	.5HP - 5HP	.5HP - 5HP	3HP
Motor Type	Gear Motor	Gear Motor	Gear Motor	Gear Motor
Drive Mount	Shaft Mounted	Shaft Mounted	Shaft Mounted	Shaft Mounted
End Roll Diameter	2 in	2.5 in	3.5 in	6 in
Materials	,	,		
Belt Material	Flexam EF 10/2 0+07 Black M2 FR	Flexam EF 10/2 0+07 Black M2 FR	Flexam EF 10/2 0+07 Black M2 FR	Flexam EF 10/2 0+07 Black M2 F
	Others upon Request	Others upon Request	Others upon Request	Others upon Request
Construction	10 gauge / 3mm	10 gauge / 3mm	10 gauge / 3mm	10 gauge / 3mm
Shaft Size	1" - 1-3/16" 25mm - 30mm	1 7/16" 35mm	1-7/16" - 1-11/16" 35mm - 45mm	1-7/16" 35mm
Finish	RAL DTM	RAL DTM	RAL DTM	RAL DTM
Bearings	Peer MHS	Peer MHS	Peer MHS	Peer MHS
Dimensions				
Frame Height	7 in / 177mm	8.5 in / 216mm	12 in / 216mm	12 in / 216mm
Length (CL) Merge/Diverge	31" / 44"	41" / 57"	54" / 70"	36"
LW Clearance (BSG)	13"	29"	39"	39"
Min TOB Height	7 in / 177mm	8.5 in / 216mm	12 in / 216mm	12 in / 216mm
Side Guards	0" - 12"	0" - 21"	0" - 21"	12" or 21"
Options				
Belt Construction	Vulcanized Belt	Vulcanized Belt	Vulcanized Belt	N/A
Underguarding	Expanded Metal	Expanded Metal	Expanded Metal	
	Solid Metal Pinned	Solid Metal Pinned	Solid Metal Pinned	Solid Metal included
	Plastic Mesh	Plastic Mesh	Plastic Mesh	
Supports	2" Square tubing	2" Square tubing	2" Square tubing	2" Square tubing

Belt Drive System (Angle Flo only):

The conveyor belt is driven by its bottom side contacting a heavy duty lagged drive roll. Contamination of the belt surface does not effect the conveyor operation. A spring-loaded take-up maintains even belt tension even through changes in loading and temperature.



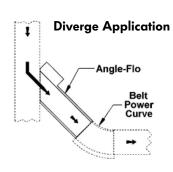
Note: the above dimensions are for Merge units only and represent the shortest length for the conveying width. Diverge units are typically longer. Call the factory for minimum lengths for diverge units. The above models are examples that show the narrowest and widest conveying widths for each frame height.



Drip Hands

Floor Blocks

Ceiling Hanger



Floor Blocks

Ceiling Hanger

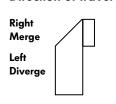
Floor Blocks

Ceiling Hanger

Direction of travel

Floor Blocks

Ceiling Hanger





Belt Conveyors & Merges:

Queue-Flo

Positive Drive Queuing Conveyor

The Queue-Flo belt conveyor from Interroll

is a perfect solution whenever a positive-drive queuing conveyor or short, wide belt conveyor is required.



The positive-drive system ensures belt tracking without special adjustments and rugged dependability under heavy duty induction or metering applications.

The Queue-Flo is ideal for indexing, as the chain drive assures no belt drift. It is also ideal as a "gap" conveyor where a short length and wide belt width are required.

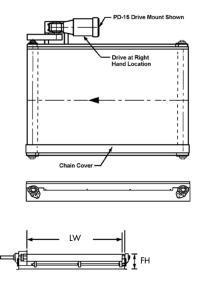
> Positive Drive Belt System

The conveyor belt is positively driven by a shaft mounted sprocket engaging a precision sidebow chain which is attached directly to the outside edge of the belt. This positive drive system is unaffected by changes in loading, tension, temperature, humidity, and foreign material on the belt. The positive drive belt system ensures continuous, reliable operation even in harsh and difficult environments with minmal maintenance.

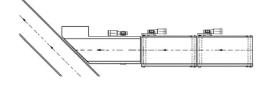
QUEUE-FLO

Technical Specifications

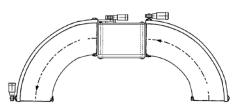
Sprocket Size	17	
General Technical Data		
Max Load Capacity	40 lbs/ft	
Max Conveyor Load	500 LBS	
Conveyor Speed At CL	0 - 300 fpm / 1.78 m/s	
Ambient Temperature	5° - 176° F	
Drive Data		
Rated Voltage	400V / 50HZ / 3PH	
	460V / 60HZ / 3PH	
	110V / 220V /60HZ / 1PH	
Power	.5HP - 2HP	
Motor Type	Gear Motor	
Drive Mount	Shaft Mounted	
End Roll Diameter	3-3/8 in	
Materials		
Belt Material	Flexam EF 10/2 0+A22 Black	
	AS FR (Accumulation)	
	PVOP (Queuing)	
	Others upon Request	
Construction	12 gauge / 2mm	
Shaft Size	1-7/16" 35mm	
Drive Chain	Tsubaki #50 Sidebow	
Finish	RAL DTM	
Bearings	Peer MHS	
Dimensions		
Frame Height	7 in / 177mm	
Length	18" - 240"	
LW Clearance (BSG)	7" to 60"	
Min TOB Height	7 in / 177mm	
Side Guards	0" - 21"	
Options		
Underguarding	Expanded Metal	
	Solid Steel	
	Plastic Mesh	
Drive Mount Styles		
Drive Mount Styles Supports	2" Square tubing	
	2" Square tubing H/S Supports	



Queuing an induction angle Merge Conveyor



Short straight Conveyor between two Belt Curves





Note: Contact factory for applications requiring higher loads or speeds.

Belt Curves:

Interroll Portec Belt Curve

> Interroll Portec Belt Curve

The Interroll Portec Belt Curve has been specifically designed to provide trouble-free performance for many years in a variety of applications.

Proven Interroll Portec Technology

- Smooth product transfers
- Low noise operation
- Complies with latest safety and sanitary standards
- Wide conveying widths available
- Custom designed for your specific application
- · Low belt tension for long component life
- Rugged steel construction no shortcuts or inferior materials
- Positive drive belt system means no end roll slip
- Simplified maintenance enhancements



The design accommodates many variations in width, arc, and weight conveyance. The laced belt can be changed within a very short time and does not require the removal of the drive package. Our Belt Curve can operate in much higher and lower ambient temperatures than a friction-driven conveyor and reaches speeds of more than 3 meters per second (600+ feet / minute).

The combination of heavy duty equipment, durability and simple maintenance matched with quiet, high speed operation make Interroll the company of choice for material handling professionals the world over.

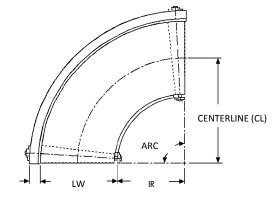


INTERROLL PORTEC BELT CURVE



Positive Drive Belt System

The conveyor belt is positively driven by a shaft mounted sprocket engaging a precision sidebow chain which is attached directly to the outside edge of the belt. This positive drive system is unaffected by changes in loading, tension, temperature, humidity, and foreign material on the belt. The positive drive belt system ensures continuous, reliable operation even in harsh and difficult environments with minmal maintenance.



Technical Specifications

Sprocket size	17	27	40
-			
General Technical Data			
Max Load Capacity	30 lbs./ft.	50 lbs./ft. w/o Bedrolls	50 lbs./ft. w/o Bedrolls
		75 lbs./ft. w/o Single bedrolls	75 lbs./ft. w/o Single bedrolls
		150 lbs./ft. w/o Double bedrolls	150 lbs./ft. w/o Double bedrolls
Max Conveyor Load	250 lbs. OCR <=47" OCR	500 lbs. OCR <=87"	500 lbs. OCR <=168"
Conveyor speed at CL	0 - 250 FPM	0 - 375 FPM	0 - 560 fpm
Ambient temperature	5° - 176° F	5° - 176° F	5° - 176° F
Drive Data			
Rated voltage	400V / 50HZ / 3PH	400V / 50HZ / 3PH	400V / 50HZ / 3PH
	460V / 60HZ / 3PH	460V / 60HZ / 3PH	460V / 60HZ / 3PH
	110V / 220V / 60HZ / 1PH	110V / 220V / 60HZ / 1PH	110V / 220V / 60HZ / 1PH
Power	.5HP - 2HP	.5HP - 5HP	5HP - 7.5HP
Motor Type	Gear Motor	Gear Motor	Gear Motor
Drive Mount	Shaft Mounted	Shaft Mounted	Shaft Mounted
End roll diameter at OR	3 in	5 in	7.5 in
Materials			
Belt Material	Flexam EF 10/2 0+A22 Black AS FR	Flexam EF 10/2 0+A22 Black AS FR	Flexam EF 10/2 0+A22 Black AS FR
	Others upon request	Others upon request	Others upon request
Construction	12 Gauge Steel / 2.5 mm	12 Gauge Steel / 2.5 mm	12 Gauge Steel / 2.5 mm
Shaft Size	1" - 1-3/16" 25mm - 30mm	1-3/16" - 1-7/16" 30mm - 35mm	1-7/16"" - 1 15/16" 35mm - 45mr
Drive Chain	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow
Finish	RAL DTM	RAL DTM	RAL DTM
Bearing	Peer MHS	Peer MHS	Peer MHS
Dimensions			
Frame Height	7 in / 177 mm	8.5 in / 216 mm	12 in / 305 mm
Angle	15 - 180 Degrees	15 - 180 Degrees	15 - 180 Degrees
Inner Radius (IR)	12" - 87"	17" - 87"	17" - 168"
LW Clearance (BSG)	Dependent on IR	Dependent on IR	Dependent on IR
Min TOB Height	7 in / 177mm	8.5 in / 216 mm	12 in / 305 mm
Side Guards	0" - 12"	0" - 12"	0" - 12"
Options			
Vulcanized Unit			
Drip Hands Optional			
Drive Mount Style	-		
Nickel Plate Components			
Underguarding	Expanded Metal	Expanded Metal	Expanded Metal
ondergodiumg	Solid Metal Pinned	Solid Metal Pinned	Solid Metal Pinned
	Solid Steel	Solid Steel	Solid Steel
	Plastic Mesh	Plastic Mesh	Plastic Mesh
Supports	2" Square tubing	2" Square tubing	2" Square tubing
	3" Square tubing	3" Square tubing	3" Square tubing
	H/S Supports	H/S Supports	H/S Supports
	Floor Blocks	Floor Blocks	Floor Blocks
	Ceiling Hanger	Ceiling Hanger	Ceiling Hanger

Belt Curve

Airport Applications



Interroll Portec Belt Curve Airport Applications

Sprocket size	27	40
General Technical Data		
Max Load Capacity	50 lbs/ft	50 lbs/ft
Max Conveyor Load	500 lbs OCR <=87"	500 lbs OCR <=87"
Conveyor speed at CL	0 - 375 fpm	0 - 560 FPM
Ambient temperature	5° - 176° F	5° - 176° F
Drive Data		
Rated voltage	400V / 50HZ / 3PH	400V / 50HZ / 3PH
	460V / 60HZ / 3PH	460V / 60HZ / 3PH
Power	1HP - 5HP	1HP - 7.5HP
Motor Type	Gear Motor	Gear Motor
Drive Mount	Shaft Mounted	Shaft Mounted
End Roll Diameter	5 in	7.5″
Materials		
Belt Material	Flexam EF 10/2 0+A22 Black AS FR	Flexam EF 10/2 0+A22 Black AS FR
	Others upon Request	Others upon Request
Construction	12 gauge / 2.5mm	12 gauge / 2.5mm
Shaft Size	1-7/16" - 1-11/16" 35mm - 45mm	1-7/16"" - 1-11/16" 35mm - 45mm
Drive Chain	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow
Finish	RAL DTM	RAL DTM
Bearing	Peer MHS	Peer MHS
Dimensions		
Frame Height	8.5 in / 216mm	12 in / 305mm
Angle	15 - 180 Degrees	15 - 180 Degrees
Inner Radius (IR)	48"	48"
LW Clearance (BSG)	39"	39"
Min TOB Height	8.5 in / 216mm	12 in / 305mm
Side Guards	12" or 21"	12" or 21"
Options		
Underguarding	Expanded Metal	Expanded Metal
	Solid Metal Pinned	Solid Metal Pinned
	Solid Steel	Solid Steel
	Plastic Mesh	Plastic Mesh
Mark and Tag	Vinyl Stencil	Vinyl Stencil
Supports	2" Square tubing	2" Square tubing
	3" Square tubing	3" Square tubing
	H/S Supports	H/S Supports
	Floor Blocks	Floor Blocks
	Ceiling Hanger	Ceiling Hanger
Drip Pan	Standard	Standard
•	Standard w/ Drain Plug	Standard w/ Drain Plug

Belt Curve

CEP Applications



Interroll Portec Belt Curve CEP Applications

Sprocket size	27	40		
General Technical Data				
Max Load Capacity	50 lbs/ft	50 lbs/ft		
	75 lbs/ft w/Single Bedrolls	75 lbs./ft. w/Single bedrolls		
	150 lbs./ft. w/Double bedrolls	150 lbs./ft. w/Double bedrolls		
Max Conveyor Load	500 lbs OCR <=87"	500 lbs OCR <=168"		
Conveyor speed at CL	0 - 375 fpm	0 - 560 FPM		
Ambient temperature	5° - 176° F	5° - 176° F		
Drive Data				
Rated voltage	400V / 50HZ / 3PH	400V / 50HZ / 3PH		
	460V / 60HZ / 3PH	460V / 60HZ / 3PH		
Power	.5HP - 5HP	.5HP - 7.5HP		
Motor Type	Motor / Reducer	Motor / Reducer		
Drive Mount	Shaft Mounted	Shaft Mounted		
End roll diameter	5 in	7.5″		
Materials				
Belt Material	PHR2-160 LI 3/64 X BB	PHR2-160 LI 3/64 X BB		
	E 12/2 U0/V6 GSTR-C-SE	E 12/2 U0/V6 GSTR-C-SE		
Construction	12 gauge / 2.5mm	12 gauge / 2.5mm		
Shaft Size	1-7/16" - 1-11/16" 35mm - 45mm	1-7/16"" - 1 15/16" 35mm - 45		
Drive Chain	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow		
Finish	RAL DTM	RAL DTM		
Bearing	Peer MHS	Peer MHS		
Dimensions				
Frame Height	8.5 in / 216mm	12 in / 305mm		
Angle	15 - 180 Degrees	15 - 180 Degrees		
Inner Radius (IR)	60", 72", or 96"	60", 72", or 96"		
LW Clearance (BSG)	43", 49"or 61.5"	43", 49"or 61.5"		
Min TOB Height	8.5 in / 216mm	12 in / 305mm		
Side Guards w/Belt Wiper	12" or 21"	12" or 21"		
Options				
Bulk Flow (UPS)	N/A			
Memo Lube				
Tsubaki Shock Relay (UPS)				
End Roll Guards (UPS)				
Underguarding	Expanded Metal or Solid Metal	Expanded Metal or Solid Metal		
Supports	2" Square tubing	2" Square tubing		
	3" Square tubing	3" Square tubing		
	H/S Supports	H/S Supports		
	Floor Blocks	Floor Blocks		
	Ceiling Hanger	Ceiling Hanger		

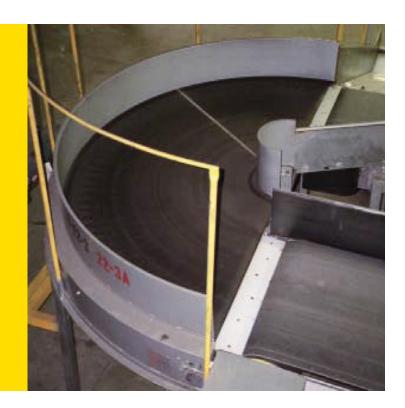
Belt Curves:

Z-Turn Interroll Portec Belt Curve

Small Inside Radius Curve

Proven Interroll Portec Technology

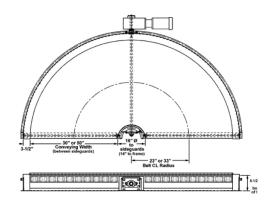
- Small inside radius for spacesaving conveyor layout
- Cylindrical end rolls for outstanding product transfers
- Bi-directional operation
- Positive drive belt system means no end roll slip
- Low belt tension for long component life
- Custom designed for your specific application
- Low noise operation
- Rugged steel construction no shortcuts or inferior materials
- Simplified maintenance enhancements



A compact, quiet and reliable 180 degree belt power curve.

Technical Specifications

Sprocket size	8ZT30	8ZT50
General Technical Data	10 11 16	10 H 15
Max Load Capacity	40 lbs/ft	40 lbs/ft
Max Conveyor Load	240 lbs	350 lbs
Conveyor speed at CL	0 - 170 fpm	0 - 170 FPM
Ambient temperature	5° - 176° F	5° - 176° F
Drive Data		
Rated voltage	400V / 50HZ / 3PH	400V / 50HZ / 3PH
	460V / 60HZ / 3PH	460V / 60HZ / 3PH
	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH
Power	.5HP - 2HP	.5HP - 5HP
Motor Type	Gear Motor	Gear Motor
Drive Mount	Shaft Mounted	Shaft Mounted
End Roll Diameter	3 in	3 in
Materials	El	FL FF 10/0 0
Belt Material	Flexam EF 10/2 0	Flexam EF 10/2 0
	+A22 Black AS FR	+A22 Black AS FR
Construction	12 gauge / 2.5mm	12 gauge / 2.5mm
Shaft Size	1-7/16" 35mm	
Drive Chain	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow
Finish	RAL DTM	RAL DTM
Bearing	Peer MHS	Peer MHS
Dimensions		
Frame Height	8.5 in / 216mm	8.5 in / 216mm
Angle	180 Degrees	180 Degrees
Inner Radius (IR)	8″	8"
LW Clearance (BSG)	30"	50"
Min TOB Height	8.5 in / 216mm	12 in / 305mm
Side Guards	0" - 12"	0" - 12"
Options		
Underguarding	Expanded Metal	Expanded Metal
	Solid Steel	Solid Steel
	Plastic Mesh	Plastic Mesh
Supports	2" Square tubing	2" Square tubing
	3" Square tubing	3" Square tubing
	H/S Supports	H/S Supports
	Floor Blocks	Floor Blocks
	Ceiling Hanger	Ceiling Hanger
Drive Mount Styles		
Drip Pan	Standard	Standard
	Standard w/ Drain Plug	Standard w/ Drain Plug





Positive Drive Belt System

The conveyor belt is positively driven by a shaft mounted sprocket engaging a precision sidebow chain which is attached directly to the outside edge of the belt. This positive drive system is unaffected by changes in loading, tension, temperature, humidity, and foreign material on the belt. The positive drive belt system ensures continuous, reliable operation even in harsh and difficult environments with minmal maintenance.

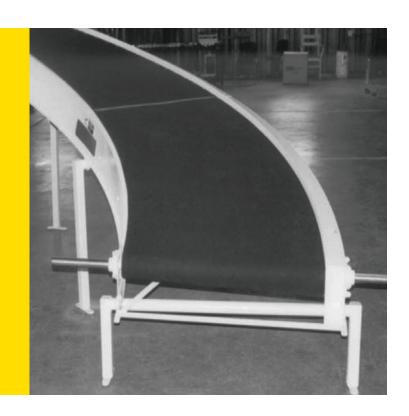
Belt Curves:

Spiral Curves

Elevation and Directional Unit Handling

Proven Interroll Technology

- High speed capacity
- Low noise operation
- Positive drive belt system means no end roll slip
- Rugged steel construction no shortcuts, such as wood components
- Low belt tension for long component life
- Wide conveying widths available
- Simplified maintenance enhancements
- Complies with latest safety standards
- Over 57 years experience Interroll invented the Spiral Curve belt conveyor



Getting up and around made easy...

Interroll Spiral Curve



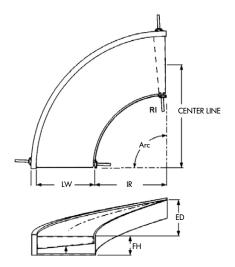
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SPIRAL CURVE

Technical Specifications

Sprocket size	17	27	40
General Technical Data			
Max Load Capacity	30 lbs/ft	50 lbs/ft	50 lbs/ft
		75 lbs/ft w/Single Bedrolls	75 lbs/ft w/Single Bedrolls
		150 lbs/ft w/ Double Bedrolls	150 lbs/ft w/ Double Bedrolls
Max Conveyor Load	250 lbs OCR <=47"	500 lbs OCR <=87"	500 lbs OCR <=87"
Conveyor speed at CL	0 - 250 fpm	0 - 350 fpm	0 - 350 fpm
Inclined / Declined	Angle Dependent on OCR	Angle Dependent on OCR	Angle Dependent on OCR
Ambient temperature	5° - 176° F	5° - 176° F	5° - 176° F
Drive Data			
Rated voltage	400V / 50HZ / 3PH	400V / 50HZ / 3PH	400V / 50HZ / 3PH
•	460V / 60HZ / 3PH	460V / 60HZ / 3PH	460V / 60HZ / 3PH
	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH
Power	.5HP - 2HP	.5HP - 5HP	.5HP - 7.5HP
Motor Type	Gear Motor	Gear Motor	Gear Motor
Drive Mount	Shaft Mounted	Shaft Mounted	Shaft Mounted
OR End Roll Diameter	3 in	5 in	7.5"
Materials			
Belt Material	PHR 2-160 GRII RTxBB Black	PHR 2-160 GRII RTxBB Black	PHR 2-160 GRII RTxBB Black
Dell Malerial	PHR2-160 LI 3/64 X BB	PHR2-160 LI 3/64 X BB	PHR2-160 LI 3/64 X BB
. :	Others upon Request	Others upon Request	Others upon Request
Construction	12 gauge / 2.5mm	12 gauge / 2.5mm	12 gauge / 2.5mm
Shaft Size	1" - 1-3/16" 25mm - 30mm	1" - 1-7/16" 25mm - 35mm	1-7/16"" 1 15/16" 35mm - 45mr
Drive Chain	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow
Finish	RAL DTM	RAL DTM	RAL DTM
Bearing	Peer MHS	Peer MHS	Peer MHS
Dimensions			
Frame Height	7 in / 177mm	8.5 in / 216mm	12 in / 305mm
Angle	15 - 180 Degrees	16 - 180 Degrees	17 - 180 Degrees
Inner Radius (IR)	12" - 87"	17" - 87"	17" - 168"
LW Clearance (BSG)	Dependent on IR	Dependent on IR	Dependent on IR
Min TOB Height	7 in / 177mm	8.5 in / 216mm	12 in / 305mm
Side Guards	0" - 21"	0" - 21"	0" - 21"
Options			
Underguarding	Expanded Metal	Expanded Metal	Expanded Metal
	Solid Metal Pinned	Solid Metal Pinned	Solid Metal Pinned
	Solid Steel	Solid Steel	Solid Steel
	Plastic Mesh	Plastic Mesh	Plastic Mesh
Drive Mount Styles			
Mark and Tag	Vinyl Stencil	Vinyl Stencil	Vinyl Stencil
Supports	2" Square tubing	2" Square tubing	2" Square tubing
••	3" Square Tubing	3" Square Tubing	3" Square Tubing
	H/S Supports	H/S Supports	H/S Supports
	Floor Blocks	Floor Blocks	Floor Blocks
	Ceiling Hanger	Ceiling Hanger	Ceiling Hanger
Drip Pan	Standard	Standard	Standard
Prip run	oraniaara	orariuuru	Jiuliuulu



Belt Curves:

Spiral Lift

Continuous Vertical Unit Handling

The answer to your vertical conveying needs

Spiral-Lift Applications

- Beverages
- Printing Plants/Newspapers
- Mail Order Companies
- Distribution Centers
- Factories
- Airport Baggage Handling
- Medical Devices
- Food Processing Facilities

Convey It Up or Down

- Saves floor space
- Requires no metering, accumulation or indexing
- Positive drive belt system means no end roll slip
- Wide selection of entry and exit combin\ations
- Custom designed for your particular operation
- Durable all steel construction
- Fully assembled or modular construction
- High conveying speeds available
- Steep angles of incline/decline available (over 21° @ centerline)
- Wide belt widths available
- Over 40 years experience building spiral belt conveyors
- No exposed pinch points over or under belt

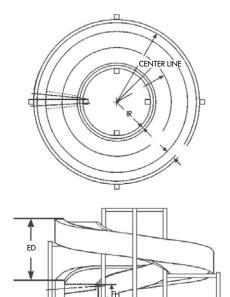


SPIRAL-LIFT

Technical Specifications

Sprocket size	17	27	40
General Technical Data			
Max Load Capacity	50 lbs/ft	50 lbs/ft	50 lbs/ft
per module		75 lbs/ft w/Single Bedrolls	75 lbs/ft w/Single Bedrolls
		150 lbs/ft w/ Double Bedrolls	150 lbs/ft w/ Double Bedrolls
Max Module Load	290 lbs OCR <=37"	500 lbs OCR <=87"	500 lbs OCR <=168"
Conveyor Speed At CL	0 - 140 fpm	0 - 300 fpm	0 - 350 fpm
Max Ed per 360o	Angle Dependent on OCR	Angle Dependent on OCR	Angle Dependent on OCR
Ambient temperature	-20°F to 225°F (-29°C to 107°C)	-20°F to 225°F (-29°C to 107°C)	-20°F to 225°F (-29°C to 107°C
Drive Data			
Rated voltage	400V / 50HZ / 3PH	400V / 50HZ / 3PH	400V / 50HZ / 3PH
•	460V / 60HZ / 3PH	460V / 60HZ / 3PH	460V / 60HZ / 3PH
	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH	110V / 220V /60HZ / 1PH
Power	.5HP - 2HP	.5HP - 5HP	.5HP - 7.5HP
Motor Type	Gear Motor	Gear Motor	Gear Motor
Drive Mount	Shaft Mounted OR	Shaft Mounted OR	Shaft Mounted OR
End Roll Diameter	3 in	5 in	7.5"
Materials Belt Material	PHR 2-160 GRII RTxBB Black	PHR 2-160 GRII RTxBB Black	PHR 2-160 GRII RTxBB Black
2011 7714107141	Others upon Request	Others upon Request	Others upon Request
Construction	12 gauge / 2.5mm	12 gauge / 2.5mm	12 gauge / 2.5mm
Shaft Size	1" - 1-3/16" 25mm - 30mm	1-3/16" - 1-7/16" 30mm - 40mm	1-7/16"" - 1 15/16"" 35mm - 45mn
Drive Chain	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow	Tsubaki #50 Sidebow
Finish	RAL DTM	RAL DTM	RAL DTM
Bearing	Peer MHS	Peer MHS	Peer MHS
bearing	Teel Willo	Teel Willo	Teel Willo
Dimensions	7. (177	0.5: (01)	10: /005
Frame Height	7 in / 177mm	8.5 in / 216mm	12 in / 305mm
Module Arc	Dependent on IR and LW	Dependent on IR and LW	Dependent on IR and LW
Inner Radius (IR)	20" - 87"	20" - 87"	20" - 90"
LW Clearance (BSG)	Dependent on IR	Dependent on IR	Dependent on IR
Min TOB Height	7 in / 177mm	8.5 in / 216mm	12 in / 305mm
Side Guards	0" - 12"	0" - 12"	0" - 12"
Options			
Underguarding	Expanded Metal	Expanded Metal	Expanded Metal
-	Solid Steel	Solid Steel	Solid Steel
	Plastic Mesh	Plastic Mesh	Plastic Mesh
Drive Mount Styles			
Drip Pan	Standard	Standard	Standard
-	Standard w/ Drain Plug	Standard w/ Drain Plug	Standard w/ Drain Plug

Spiral Belt Conveyor





Application Specials

Interroll can design and build the Spiral-Lift to meet your special application requirements.

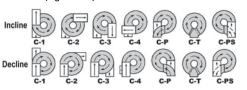


Positive Drive Belt System

The conveyor belt is positively driven by a shaft mounted sprocket engaging a precision sidebow chain which is attached directly to the outside edge of the belt. This positive drive system is unaffected by changes in loading, tension, temperature, humidity, and foreign material on the belt. The positive drive belt system ensures continuous, reliable operation even in harsh and difficult environments with minmal maintenance.

Entry/Exit Orientation

Clockwise (Right-hand)



Counter-Clockwise (Left-hand)



Chutes:

Fiberglass Chutemaster

Compact Lowering Operations

- Saves Floor Space
- Economical Cost
- Virtually
 Maintenance-free

The ChuteMaster Fiberglass Spiral Chute

from Interroll provides a safe, secure means of lowering your products.

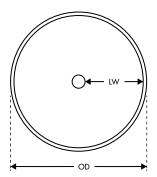
Specially designed fiberglass module profiles help control the descending speed of your products.

In high humidity situations, the characteristics of the gel-coated fiberglass assists products to flow freely, gently and safely.

Made of durable hand-laid fiberglass and have a special gel-coating to provide long wearing low-friction service



CHUTEMASTER



Technical Specifications

CM-18	CM-25	CM-35	CM-45	CM-51	CM-61	CM-27
40"	54.75"	74"	94"	106″	126″	59"
5.56"	5.56"	10.75″	10.75″	10.75"	10.75″	9″
15.25"	22.63"	29.63"	39.63"	45.63"	55.63"	18″
27 Degrees	27 Degrees	27 Degrees	27 Degrees	27 Degrees	27 Degrees	27 Degrees
5° - 176° F	5° - 176° F	5° - 176° F	5° - 176° F	5° - 176° F	5° - 176° F	5° - 176° F
18	25	35	45	51	61	27
	40" 5.56" 15.25" 27 Degrees 5° - 176° F	40" 54.75" 5.56" 5.56" 15.25" 22.63" 27 Degrees 27 Degrees 5° - 176° F 5° - 176° F	40" 54.75" 74" 5.56" 5.56" 10.75" 15.25" 22.63" 29.63" 27 Degrees 27 Degrees 27 Degrees 5° - 176° F 5° - 176° F 5° - 176° F	40" 54.75" 74" 94" 5.56" 5.56" 10.75" 10.75" 15.25" 22.63" 29.63" 39.63" 27 Degrees 27 Degrees 27 Degrees 5° - 176° F 5° - 176° F 5° - 176° F	40" 54.75" 74" 94" 106" 5.56" 5.56" 10.75" 10.75" 10.75" 15.25" 22.63" 29.63" 39.63" 45.63" 27 Degrees 27 Degrees 27 Degrees 27 Degrees 5° - 176° F 5° - 176° F 5° - 176° F 5° - 176° F	40" 54.75" 74" 94" 106" 126" 5.56" 5.56" 10.75" 10.75" 10.75" 10.75" 15.25" 22.63" 29.63" 39.63" 45.63" 55.63" 27 Degrees 27 Degrees 27 Degrees 27 Degrees 27 Degrees 5° - 176° F

Materials

Profile	Fiberglass						
Pole Construction	5" Round Pipe	5" Round Pipe	10" Round Pipe	10" Round Pipe	10" Round Pipe	10" Round Pipe	4" Square Tube
Profile Finish	Black Gel Coat						
Pole Finish	RAL DTM						

Dilliensions							
Min Height Exit to Floor	10"	10"	12"	12"	12"	12″	10" < (W/ No Exit Slide)
Elevation Per 3600	33"	45"	63"	70.5″	75″	75″	41"

Options

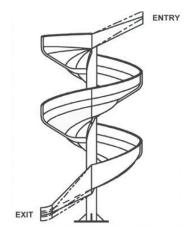
Sort Table / Outriggers / Multi Section Pole / Supports / Custom Tapered Steel Entry or Exit Slides / Standard Fiberglass Entry and Exit Slides / Multi Entry Points



Note: Elevation dimension does not include entry/exit components. CM51 and CM61 must ship disassambled.

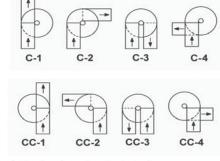
Entry/Exit Slides

A ChuteMaster spiral chute is normally composed of fiberglass 90° profiles with an exit scoop. Additionally, a custom entry slide, a custom exit slide, and/or a sort table can be provided.



Entry/Exit Configurations

Right Decline (clockwise)



Left Decline (counter-clockwise)

Chutes:

Spiral Fiberglass Chute with Skate Wheels

Gravity and Skatewheels Combined

- Durable
- Cost Effective
- Maintenance Free

Spiral Fiberglass Chute With Skate Wheels

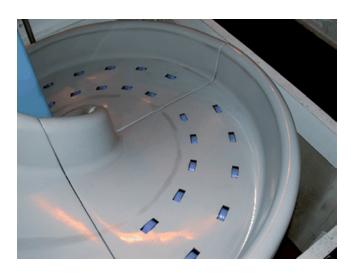
An efficient and effective design that utilizes gravity and skate wheels to move trays from one level to another.

Each module has a flat bottom with vertical sides to contain the trays/ totes and assist in maintaining tray/ tote orientation. Product descent is controlled through the unique spiral design.

It is constructed out of durable handlaid fiberglass and is an inexpensive alternative to conventional equipment.



CHUTEMASTER



General Description

The CM-27 with skate wheels is a spiral chute consists of reinforced 90° fiberglass modules assembled to a center pole support. Each module is attached to the square center pole with a steel arm. Trays/tote boxes are fed into the chute at the top and are gravity fed down to the bottom. It is possible to utilize a swoop module at the end for transitioning the tray/tote box to a horizontal take-away conveyor. An efficient and effective design that utilizes skatewheels to move trays from one level to another. Each module has a flat bottom with vertical sides to contain the trays/totes and assist in maintaining tray/tote orientation.

Chutes:

STS Spiral Totes Slide

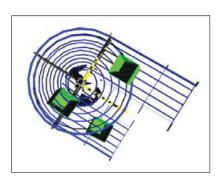
Economical Totes Descent

Rigid Plastic Totes

- Compact footprint
- Low-friction sliding surface
- Fully assembled or modular design
- Low Maintenance
- Custom entry and exit slides
- All steel construction

The STS Spiral Tote Slide

from Interroll is an economical way of lowering rigid plastic tote boxes. Each STS Spiral Slide is specifcally designed to accommodate the size and sliding characteristics of a particular plastic tote box.





STS SPIRAL TOTE SLIDE

A Spiral Slide Specifically Designed for Rigid Plastic Totes

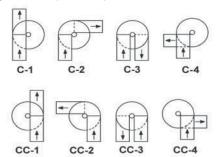
Technical Specifications

General Technical Data	
Max Load Capacity	50 lbs/tote
Max Unit Load	<=1 tote per 180 degrees
Angle of Decline	15 - 20 Degrees
Ambient temperature	5° - 176° F
Materials	
Slide Construction	11 gauge / 2mm
Pole Construction	4" Square Tube
Sliding Surface	7/16" UHMW-PE
Finish	RAL DTM
Dimensions	
Min Height (No Exit Slide)	24"
Min Inner Radius (IR)	12"
Max Outer Radius (OR)	51"
LW Clearance (BSG)	Dependent on Tote Width and Length
Side Guards	Dependent on Tote Height
Options	
Sort Table	
Stop	
Outriggers	
Multi Section Pole	
Entry & Exit Slides	

- Low-friction UHMW
- 24" (610 mm) exit swoop ensures a smooth transition to the adjoining takeaway conveyor
- Custom entry and exit straight slides to match the elevations of the adjoining conveyors
- Custom side rail for the best shape and height location for a particular tote box
- Fully assembled or modular design with 90 or 180 degree sections

Entry/Exit Configurations

Right Decline (clockwise)



Left Decline (counter-clockwise)

Efficient and Effective Design

The STS Spiral Slide is a perfect solution for applications with a continuous flow of standardized rigid plastic totes. The spiral design provides at least three times the floor savings over conventional decline conveyors. The size of the spiral slide allows it to be used in tight situations, such as elevator shafts and other small spaces. Please consult with your Interroll representative and provide specifications, including tote size, tote weights (lightest to heaviest) and tote type.



- STS is designed for hard plastic totes with lids. The only exception is if always conveying empty totes.
- The sliding speed within the chute will vary depending upon the weight and the coefficient of friction of the bottom of each tote.
- Interroll cannot engineer for a tote weight variance in excess of 10 (ten) pounds when the lightest weight loaded tote is 5 (five) pounds or less.

Supermarket Solutions:

Cassette

Interroll Cassette Conveyor

Product Features

- U or Z profiled frame
- All galvanized steel construction
- All stainless steel construction
- Galvanized & stainless steel construction
- Two-ply belt with PVC cover

Product Benefits

- High load capacity
- Modular drop-in design



General Technical Data

Length	20" to 96"
Belt width	12" to 26"
Min. ratio length/width	2
Voltage	115V/60Hz/1Ph
Optional voltage	230V/50-60Hz/1Ph
	230/60Hz/3Ph
	460/60Hz/3Ph
Drive motor diameter	113mm (4.5") or 80mm (3.15")
Idler pulley diameter	Standard 4.5" (113mm)
	Optional 1.9" or 3.15"
Belt speed options	27/35/45/58 FPM
Load capacity (max.)	Small 110 lb
	Medium 220 lb
	Large 330 lb

Note

For more information on this product, please contact Interroll Canada Ltd. 1201 Gorham Street - Newmarket, Ontario L3Y 7V1 - Canada

Supermarket Solutions:

Drum Motors

> Interroll Check Stand Drum Motors 80 & 113

Product Features

- Techno-polymer planetary gearbox
- Lightweight
- Single-rated voltage
- 3-phase or 1-phase AC induction motor
- Maintenance free
- Lifetime lubricated
- Reversible
- Low noise



General Technical Data

	Drum Motor 80	Drum Motor 113
Motor type	Asynchronous squirrel cage motor	Asynchronous squirrel cage motor
Insulation class (motors windings)	Class B	Class B
Voltage	115V +/- 5%, 1PH (IEC 34/38)	116V +/- 5%, 1PH (IEC 34/38)
	230V +/- 5%, 1PH (IEC 34/38)	230V +/- 5%, 1PH (IEC 34/38)
		230V +/- 5%, 3PH (IEC 34/38)
		460V +/- 5%, 3PH (IEC 34/38)
Frequency	50/60Hz	50/60Hz
Internal shaft sealing system	Double lipped oil seal	Double lipped oil seal
Internal end housing sealing system	Two (2) O-rings each side	Two (2) O-rings each side
Protection rate	IP 64	IP 64
Thermal protection	Resettable bi-metal switch	Resettable bi-metal switch
Rated power, 1 Ph	0.15 HP	0.1 HP to 0.2 HP
Rated power, 3 Ph	N/A	0.25 HP
Shell speed (ft/min), 1 Ph	27 or 35	27, 36, 46 or 58
Rated torque, 1 Ph	149 in-lb and 115 in-lb	124 in-lb and 380 in-lb
Rated torque, 3 Ph	N/A	243 in-lb and 416 in-lb
Face width	12.8 - 30″	11" - 38"

Note

For more information on this product, please contact Interroll Canada Ltd. 1201 Gorham Street - Newmarket, Ontario L3Y 7V1 - Canada





About Interroll

Established in 1959, Interroll has grown to become the world's leading supplier of key equipment for material handling. Whether you're handling boxes, pallets, parcels or soft goods, no other supplier has such a comprehensive range of solutions on offer.

This is why system integrators, OEMs and operators choose Interroll as a trusted partner for material handling installations, worldwide.

Interroll's global reach ensures quick delivery and superior after-sale service for customers, no matter where they are. By helping increase our customers' efficiency, we boost their competitiveness in today's high-stress marketplace.

Interroll Atlanta LLC 159 Corporate Dr N Hiram, GA 30141 +1 (855) 869 1828 atl.sales@interroll.com

Interroll Engineering West Inc. 1 Forge Rd Cañon City, CO 81212 +1 (719) 275 7471 cc.sales@interroll.com

interroll.us

Interroll reserves the right to modify the technical features of its products at any time. Technical information, volumes, data and features are only rough guidelines.





