

038-016999

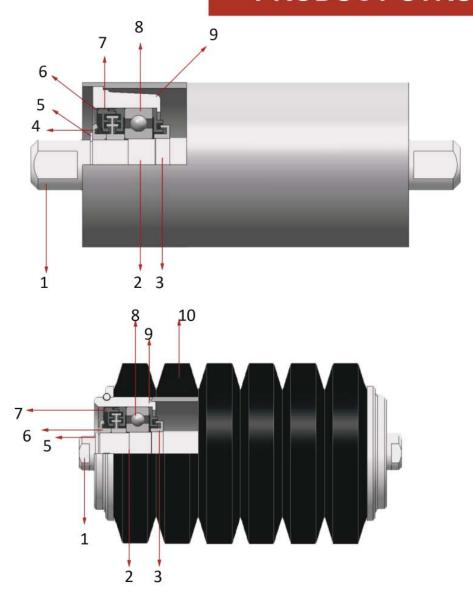
SALES9@MOTION.CO.TH / SALES10@MOTION.CO.TH MOTION POWER AND SERVICES CO., LTD

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PRODUCT STRUCTURE



MOTION POWER roller are designed and manufactured with the national standard, which have the performance of water-proof, dust-proof, minimum rotation resistance and high resistance to vandalism.

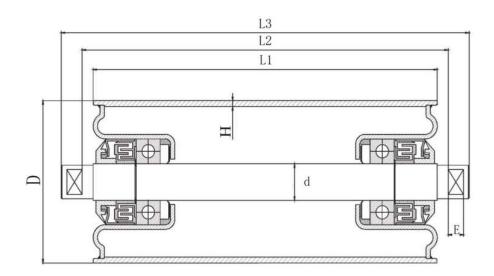
1	Cold drag axle	6	First layer of sealing
2	Steel wire	7	Second layer of sealing
3	Cir clip for axle	8	Bearing
4	Cover	9	Bearing housing
5	Cir clip for axle	10	Strong anti-tearing rubber ring

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STEEL IDLER ROLLER

MOTION POWER idler roller is the competitive standard for belt conveyors. The idler is used as a carrying idler and also as a return idler for non-sticky materials.

The steel sealed shell and weatherproof seal form a reliable splash protection. Multiple seals effectively prevent dust from entering the inside of the drum. The surface of the drum is shot blasted and covered with a red epoxy powder coating. If you want to deal with viscous materials, you can carry out special surface treatment.





DIMENSIONS(mm)					
L1 150-3000/Customize					
D 89,108,133,159,194/Customiz					
d	28,38,48,58/Customize				
Н	5-11/Customize				



STEEL IDLER ROLLER

MOTION POWER provides professional roller products, the following is our conventional steel roller model table.

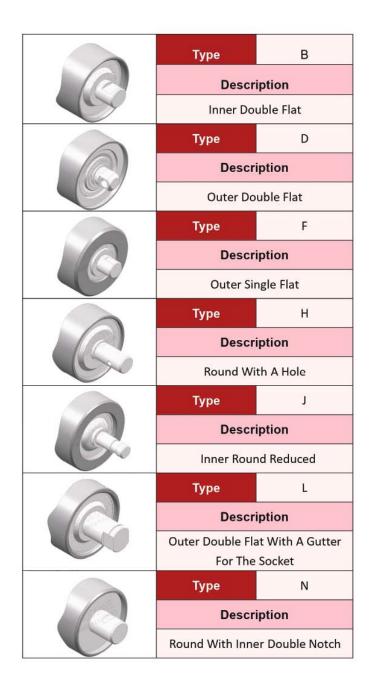
Steel Toller	steel roller model table.						
	Conveyor Idler Roller Size						
Standard D	iameter In	Length scope (mm)	Bearings Type (Min~Max)	ldler's Shell Wall Thickness			
6.35	$2\frac{1}{2}$	1500-1400	204	3.0-3.75mm			
76	3	150-3000	204,205	3.0-4.0mm			
89	$3\frac{1}{3}$	150-3000	204,205	3.0-4.0mm			
102	4	150-3000	204,205,305	3.5-4.0mm			
108	$4\frac{1}{4}$	150-3000	204,205,305,306	3.5-4.0mm			
114	$4\frac{1}{2}$	150-3000	205,206,305,306	3.5-4.5mm			
127	5	150-3000	204,205,305,306	3.5-4.5mm			
133	$5\frac{1}{4}$	150-3000	205,206,207,305,306	3.5-4.5mm			
140	$5\frac{1}{2}$	150-3000	205,206,207,305,306	3.5-4.5mm			
152	6	150-3000	205,206,207,305,306,307,308	4.0-4.5mm			
159	$6\frac{1}{2}$	150-3000	205,206,207,305,306,307,308	4.0-4.5mm			
165		150-3000	207,305,306,307,308	4.5-6.0mm			
177.8		150-3000	205,306,307,308,309	4.5-6.0mm			
190.7		150-3000	207,306,307,308,309	4.5-6.0mm			
194	$7\frac{5}{8}$	150-3000	207,307,308,309,310	4.5-6.0mm			
219	8 ⁵ / ₈	150-3000	308,309,310	4.5-6.0mm			

Besides we can manufacture the idlers and rollers according to the buyer's requirements

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SHAFT ENDS TYPES

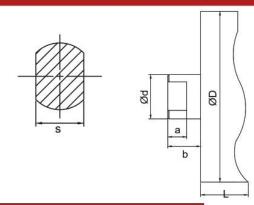
	Туре	А	
	Description		
	Outer D	ouble Flat	
	Туре	С	
	Desc	cription	
	ASSESSMENT REPRESENTATION OF THE PERSON OF T	le For Connection In rland	
	Туре	E	
(4)	Desc	cription	
	Outer Double Fla	t & Inner Single Flat	
	Туре	G	
	Description		
(5)	Inner Single Flat		
	Туре	1	
	Description		
6	Outer Double Fla	t&Inner Double Flat	
	Туре	к	
	Description		
	Outer Thread&Outer Double Flat		
	Туре	М	
	Description		
	Round With	A Slotted Hole	







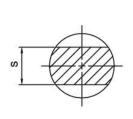


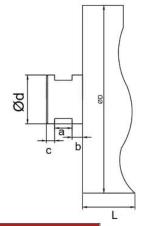


OUTER DOUBLE FLAT						
	Bearing Type					
Data	6306	6308 22308	6310	6312 22312		
Ød(max)	28	38	48	58		
ØD	89,108,133	108,133,159	133,159	159,194		

Dimensions s, a and b at the request of the customer

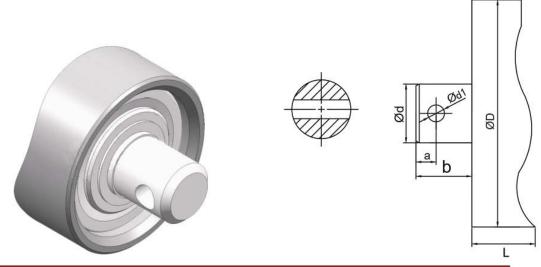




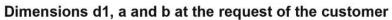


INNER DOUBLE FLAT						
		Bearin	g Type			
Data	6306	6308 22308	6310	6312 22312		
Ød(max)	28	38	48	58		
ØD	89,108,133	108,133,159	133,159	159,194		

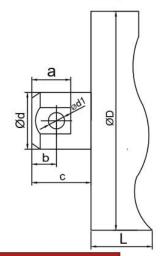
Dimensions s, a, b and c at the request of the customer



ROUND WITH A HOLE FOR CONNECTION IN GARLAND						
D 1		Bearing	д Туре			
Data	6306	6308	6310	6312		
Ød(max)	28	38	48	58		
ØD	89,108,133	108,133,159	133,159	159,194		





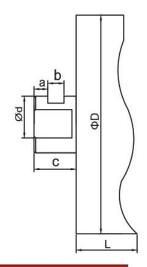


OUTER DOUBLE FLAT						
		Bearin	д Туре			
Data	6306	6308	6310	6312		
Ød(max)	28	38	48	58		
ØD	89,108,133	108,133,159	133,159	159,194		

Dimensions d1, s, a, b and c at the request of the customer



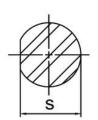


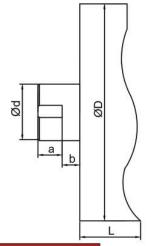


OUTER DOUBLE FLAT & INNER SINGLE FLAT						
		Bearing	д Туре			
Data	6306	6308	6310	6312		
Ød(max)	28	38	48	58		
ØD	89,108,133	108,133,159	133,159	159,194		

Dimensions a, b, c, e and s at the request of the customer

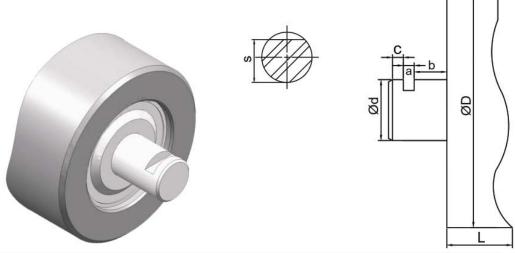






OUTER SINGLE FLAT						
B-1-		Bearin	д Туре			
Data	6306	6308	6310	6312		
Ød(max)	28	38	48	58		
ØD	89,108,133	108,133,159	133,159	159,194		

Dimensions a, b and s at the request of the customer

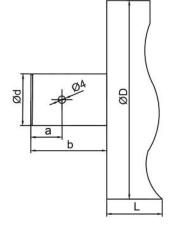


INNER SINGLE FLAT						
		Bearing	д Туре			
Data	6306	6308	6310	6312		
Ød(max)	28	38	48	58		
ØD	89,108,133	108,133,159	133,159	159,194		

Dimensions a, b, c and s at the request of the customer



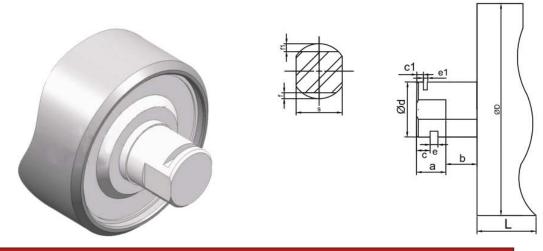




ROUND WITH A HOLE						
	Bearing Type					
Data	6306	6308				
Ød(max)	28	38				
ØD	89,108,133	108,133				

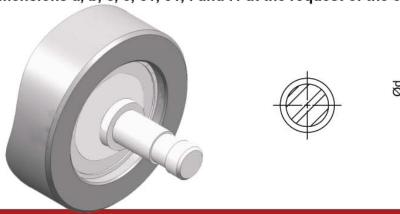
Dimensions Ød1, a, b and f at the request of the customer





OUTER DOUBLE FLAT&INNER DOUBLE FLAT								
	Bearing Type							
Data	6306	6308	6310	6312				
Ød(max)	28	38	48	58				
ØD	89,108,133	108,133,159	133,159	159,194				

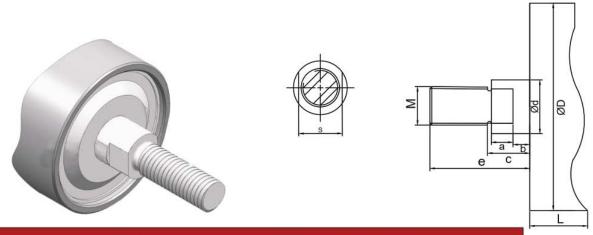
Dimensions a, b, c, e, c1, e1, f and f1 at the request of the customer



INNER ROUND REDUCED						
Data	Bearing Type					
	6306					
Ød	20					
Ød1	17.5					
ØD	89,108,133					

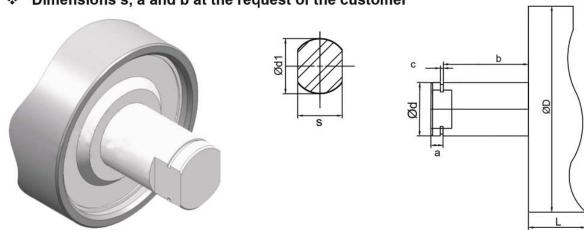
Dimensions a, b, and c at the request of the customer

ØD



OUTER THREAD&OUTER DOUBLE FLAT					
Data	Bearing Type				
	6306				
Ød(max)	28				
M	20				
s	24				
ØD	89				

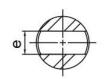
Dimensions s, a and b at the request of the customer

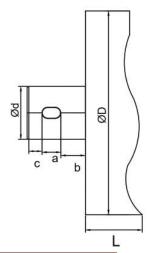


OUTER DOUBLE FLAT WITH A GUTTER FOR THE SOCKET							
2.1		Bearin	Bearing Type				
Data	6306	6306 6308 6310		6312			
Ød(max)	28	38	48	58			
ØD	89,108,133	108,133,159	133,159	159,194			

Dimensions s, a and b at the request of the customer



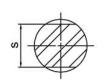


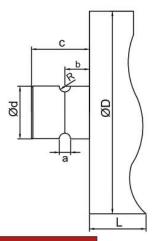


ROUND WITH A SLOTTED HOLE								
	Bearing Type							
Data	6306	6308	6310	6312				
Ød(max)	28	38	48	58				
ØD	89,108,133	108,133,159	133,159	159,194				

Dimensions s, a and b at the request of the customer







ROUND WITH INNER DOUBLE NOTCH								
D. (Bearing Type							
Data	6306	6308	6310	6312				
Ød(max)	28	38	48	58				
ØD	89,108,133	108,133,159	133,159	159,194				

Dimensions s, a and b at the request of the customer

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ROLLER PARTS

BEARING HOUSING

MOTION POWER Bearing housings are produced by the technology of stamping & pressing. Till now we have three types of bearing housings, which have their own specific respectively, thus, they could satisfy the requirements of different customers, and environmental requirements of different industries







BEARING HOUSING

MOTION POWER Bearing are applying with large clearance, Deep groove ball bearings, which can protect and guarantee the rollers with the ideal static and dynamic balance. Bearings either with double dust proof cover or with double Labyrinth ring will ensure rollers running smoothly to the maximum extend. Currently the bearing we used is HRB and SKF.

SEALING

MOTION POWER use the multiple layer seal, and rush into lithium lubricating grease in the seal. The bearing oil loading is about 2/3-3/4 of the bearing clearance, the clearance between the seal rings are fully loaded. This way guarantees the enclosed and the compact endless of the seals and achieved the effectiveness of dust proof and water proof and the bearing protection.







STEEL ROLLER SURFACE TREATMENT



MOTION POWER uses sandblasting to remove rust from steel pipes. After sandblasting to remove rust, the surface of the steel pipe will be painted more evenly.

There are two processes for MOTION POWER roller paint: spray paint and baking paint.

Spray Paint roller, the price is lower than the baking paint roller. The surface of the baking paint roller is smoother, and the surface of the spray paint roller is prone to defects



PRODUCT SELF-CHECK SYSTEM



Idler steel tube thickness measuring



Idler external circular radial run out



Idler axial displacement tester



Idler drop test method



Ultrasonic Fault Detector



Idler dust proof tester



Idler waterproof tester



Idler Rotating resistance tester



PACKAGE

MOTION POWER Idler roller will be put into the matched plastic bag, then packed in the wooden case, all of the wooden cases will be fumigated before loading to ensure the wooden case comply with the hygienic standard.



Packaging display

Wooden packing case



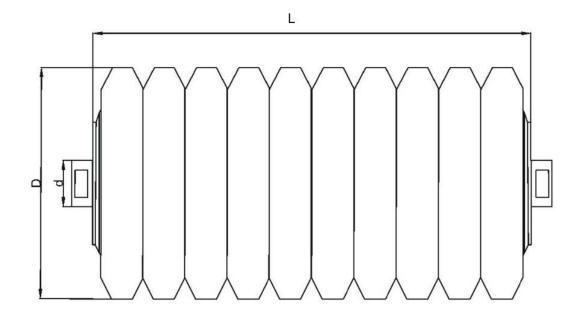
Iron box packing



IMPACT IDLER ROLLER

MOTION POWER impact idler roller to absorb impact shocks at belt conveyor loading points. The impact idler roller is also suitable for a snub pulley for the dirty side of the belt as well as for an impact idler for unit goods conveyors.

MOTION POWER impact idler roller is based on the sturdy MOTION POWER steel idler roller. By adding rubber support ring to achieve the cushioning effect



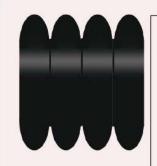


D(mm)	d(mm)	L(mm)	
89	20		
09	25		
108	20		
100	25		
	20		
133	25	250-2000	
	30	230-2000	
	20		
159	25		
	30		
219	30		
219	40		

In addition, we can customize according to the buyer's requirements.



IMPACT IDLER ROLLER SUPPORT



A-type Support Ring Features:

(1)Small contact area,(2)Good elasticity



B-type Support Ring **Features:**

- (1) Good abrasion resistance
- (2) Wide contact surface
- (3) Good wear resistance



C-type Support Ring Features:

(1)Wide contact surface(2)Good wear resistance(3)Not easy to move



D-type Support Ring **Features:**

(1)Good flexibility (2)Impact resistance



E-type Support Ring Features:

(1)Wide contact surface(2)Good elasticity



E-type with spacing rings Features:

- (1)Wide contact surface(2)Good wear resistance
- (3)Not easy to move

RETURN IDLER ROLLER

MOTION POWER Return idler roller are designed to support the return belt. The selection of the return idler type is influenced by the strength, stiffness and weight of the belt.

Return idler roller are installed on the unloaded branch to support the conveyor belt on the branch. In the common layout, the use of V-shaped or reverse V-shaped support in the lower unloaded section is beneficial to restrain the deviation of the conveyor belt.

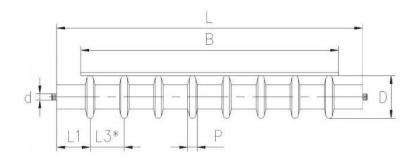
Besides the rubber disc types A and B (ISO, SMS and SFS standards) return idlers can be equipped with polyurethane discs. Tailor-made support ring assembly types are also available.



Return Steel idler roller

MOTION POWER idler roller are used for belts that are clean and non-sticky. It is also available with rubber lagging (5 mm or 10 mm) and can be used as a impact roller. They are also used on both sides of the Pressing guide bracket and as a counter Roller for the cleaner..



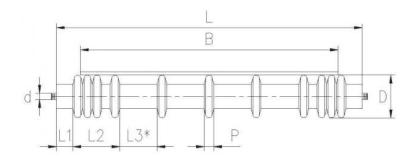


Return A type idler roller

Distance between support ring is equal. The idler is for light, stiff belts with short distances between idlers.

L	В	D	Р	L1	L3	Support ring(pcs)
		108	25		96	
500	400	133	30	58		5
		159	30			
		108	25			
600	500	133	30	60	96	6
		159	30			
		108	25			
750	650	133	30	47	106	7
		159	30			
		108	25			8
950	800	133	30	104	106	
		159	30			
		108	25			
1150	1000	133	30	95	116	9
		159	30			
		108	25			
1400	1200	133	30	120	126	10
		159	30			
1600	1400	133	30	120	136	11
1000	1400	159	30	120	130	"" 1 .3.47
1800	1600	133	30	120	136	12
1000	1000	159	30	120	130	12
2000	1800	133	30	120	136	14
2000	1000	159	30	120	130	1-4
2200	2000	133	30	120	136	15
2200	2000	159	30	120	130	15



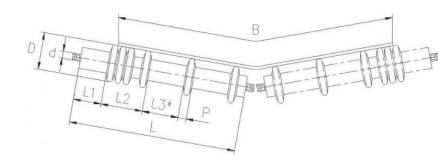


OPTIMUM

Return A(II) type idler roller

The support ring is more closely distributed at both ends of the roller. The support ring makes the outer area of the belt tightly packed. This support ring arrangement reduces the lateral drift of the conveyor belt and ensures the smooth running of the belt.

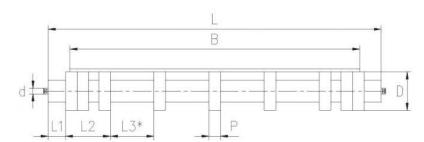
L	В	D	P	L1	L2	L3	Support ring(pcs)
		108	40				
500	500 400	133	40	50	100	80	5
		159	40				
		108	40				
600	500	133	40	50	105	125	5
		159	40				
		108	40				
750	650	133	40	50	110	110	6
		159	40				
		108	40				
950	800	133	40	60	155	145	8
930	000	159	40				
		219	50	60	190	115	8
		108	40		155		
1150	1000	133	40	60		150	9
1100	1130 1000	159	40				
		219	50	60	190	125	9
		108	40		195	145	
1400	1200	133	40	65			12
1 100	1200	159	40				
		219	50	70	195	135	10
		133	40	70	195	145	13
1600	1400	159	40				
		219	50	70	200	135	11
		133	40	60	200	145	14
1800	1600	159	40				8
		219	50	70	195	140	12
0000	2000 1800	133	40	60	200	150	15
2000		159	40				
0000		219	50	70	195	140	13
2200	0000	133	40	60	200	150	16
	2000	159	40		1	120.00.00	
		219	50	70	195	140	14



Return A(II) type idler roller

Used for wide and light belts.In the common layout, the use of V-shaped or reverse V-shaped support in the lower unloaded section is beneficial to restrain the deviation of the conveyor belt.

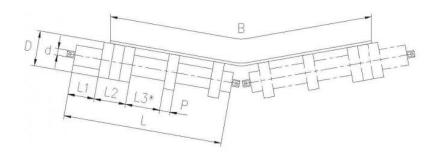
L	В	D	P	L1	L2	L3	Support ring(pcs)
		108	25	70	121	111	5
380	650	133	30	70	146	106	5
		159	30	70	140	100	5
		108	25	70	121	101	6
465	8000	133	30	70	146	146	5
		159	30	70	140	140	5
		108	25	100	171	121	8
600	1000	133	30	110	146	116	6
		159	30	110	140	110	0
		108	25	60	171	111	9
670	1200	133	30	60	176	166	7
070	070 1200	159	30	- 00			*
		219	40	50	196	146	6
		133	30	45	176	136	8
750	1400	159	30	40			8
		219	40	35	196	126	7
		133	30	100	176	156	8
900	1600	159	30	100	170	100	
		219	40	85	196	156	7
		133	30	100	186	136	9
1000	1000 1800	159	30	100	100	130	3
		219	40	85	236	166	8
		133	30	145	186	146	10
1150	2000	159	30	145	100	140	10
		219	40	135	236	146	9



Return B type idler roller

The support ring forms a tight, flat surface on the outer area of the belt. Designed for medium and heavy belts with long idler spacing.

L.	В	D	P	L1	L2	L3	Support ring(pcs)
		108	40				
500	400	133	40	50	100	80	5
		159	40				
		108	40				
600	500	133	40	50	105	125	5
		159	40				
		108	40				
750	650	133	40	50	110	110	6
		159	40				
		108	40				
050	900	133	40	60	155	145	8
950	800	159	40				
		219	50	60	190	115	8
· .		108	40		155		9
1150	1000	133	40	60		150	
1150	1150 1000	159	40				
		219	50	60	190	125	9
		108 40					
1400	1000	133	40	65	195	145	12
1400	1200	159	40				
		219	50	70	195	135	10
		133	40	70	105	145	13
1600	1400	159	40	70	195		
		219	50	70	200	135	11
		133	40	70	200	4.45	44
1800	1600	159	40	70		145	14
		219	50	70	195	140	12
		133	40	60	200	150	45
2000	1800	159	40	60	200	150	15
		219	50	70	195	140	13
		133	40	60	200	150	40
2200	2000	159	40	60	200	150	16
		219	50	70	195	140	14



Return B(II) type idler roller

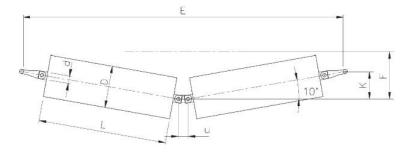
For heavy and wide belts.In the common layout, the use of V-shaped or reverse V-shaped support in the lower unloaded section is beneficial to restrain the deviation of the conveyor belt.

L	В	D	P	L1	L2	L3	Support ring(pcs)
		108	40	80	80	126	3
380	650	133	40				
		159	40				
		108	40	70	120	156	4
465	8000	133	40				
		159	40				
		108	40		120	136	5
600	600 1000	133	40	100			
		159	40				
		108	40		160	176	6
670	1200	133	40	50			
070	1200	159	40				
		219	50	50	200	146	6
		133	40	35	160	136	7
750	1400	1400 159 40	33	100	130	,	
		219	50	45	200	186	6
4.5		133	40	85	160	166	7
900	1600	159	40				, and the second
		219	50	85	200	146	7
		133	40	85	160	186	8
1000 1	1800	159	40				
		219	50	85	200	176	7
	1150 2000 133 40 159 40 219 50	133	40	135	160	156	9
1150		159	40		160		9
		135	200	196	7		

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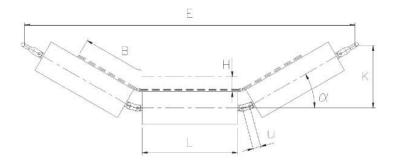
GARLAND IDLER ROLLER

MOTION POWER garland idler roller replace traditional idlers and brackets. The idlers are connected to each other with flexible links and fixed to the conveyor frame with suspension links which allow free movement in the direction of belt travel.



MOTION POWER garland idler roller spread the load over more idlers. Thus also the belt profile changes and the belt load becomes steadier. The total quantity of the steel in conveyor frames can often be considerably reduced and the frames simplified.

When conveying heavy items, with the help of garland idlers the pressures against the belt and idlers can be reduced. The life of the belt and idlers increases and thus a better economy is achieved.



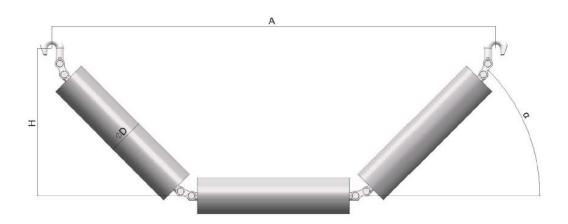




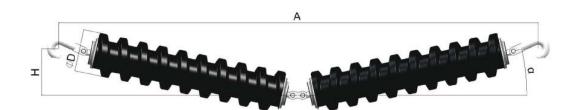
MOTION POWER provide four different hanging buckles. By lifting the idler set from the hook, the wreath idler set can be easily replaced.



THREE-PIECE CARRYING GARLAND				
Width Of Conveyor Belt	α	Α	Н	D
650-2000	35-45	930-2500	250-730	89-194



TWO-PIECE CARRYING GARLAND				
Width Of Conveyor Belt	α	Α	Н	D
650-2000	10-15	100-2500	90-330	160-219



IDLER ROLLER BRACKET

MOTION POWER bracket has a good steel structure, which provides a high load-bearing capacity.



The surface of the bracket is processed by hot-dip galvanizing. Hot-dip galvanizing provides good corrosion protection and does not require any special precautions during transportation and handling.



The wide-bottom brackets of the side supports are connected to the guide rails. Use screw couplings to connect through the guide rails. The roller is fixed to the bracket by screws or hanging buckles. When the side idler is tilted forward, the MOTION POWER bracket can stabilize the direction of the belt.



The main bracket is made of sheet metal and can bear the maximum weight. The narrow shape of the top edge of the mechanism effectively prevents the accumulation of cleaning materials.









Belt Width	500-2000mm		
Tube Diameter	Ø89 - Ø159 mm		
Tilt Assist	Yes/Yes		
Corrosion Protection	Hot-dip galvanized		

Further designs on request

Belt Width	400-800mm		
Tube Diameter	Ø63.5 - Ø133 mm		
Tilt Assist	Yes/Yes		
Corrosion Protection	Hot-dip galvanized		











Belt Width	400-800mm	
Tube Diameter	Ø63.5 - Ø159 mm	
Tilt Assist	No/Yes	
Corrosion Protection	Hot-dip galvanized	

Further designs on request







Belt Width	400-1600mm		
Tube Diameter	Ø63.5 - Ø133 mm		
Tilt Assist	No/Yes		
Corrosion Protection	Hot-dip galvanized		

Further designs on request

Belt Width	400-1600mm		
Tube Diameter	Ø63.5 - Ø159 mm		
Tilt Assist	No/Yes		
Corrosion Protection	Hot-dip galvanized		

Further designs on request





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