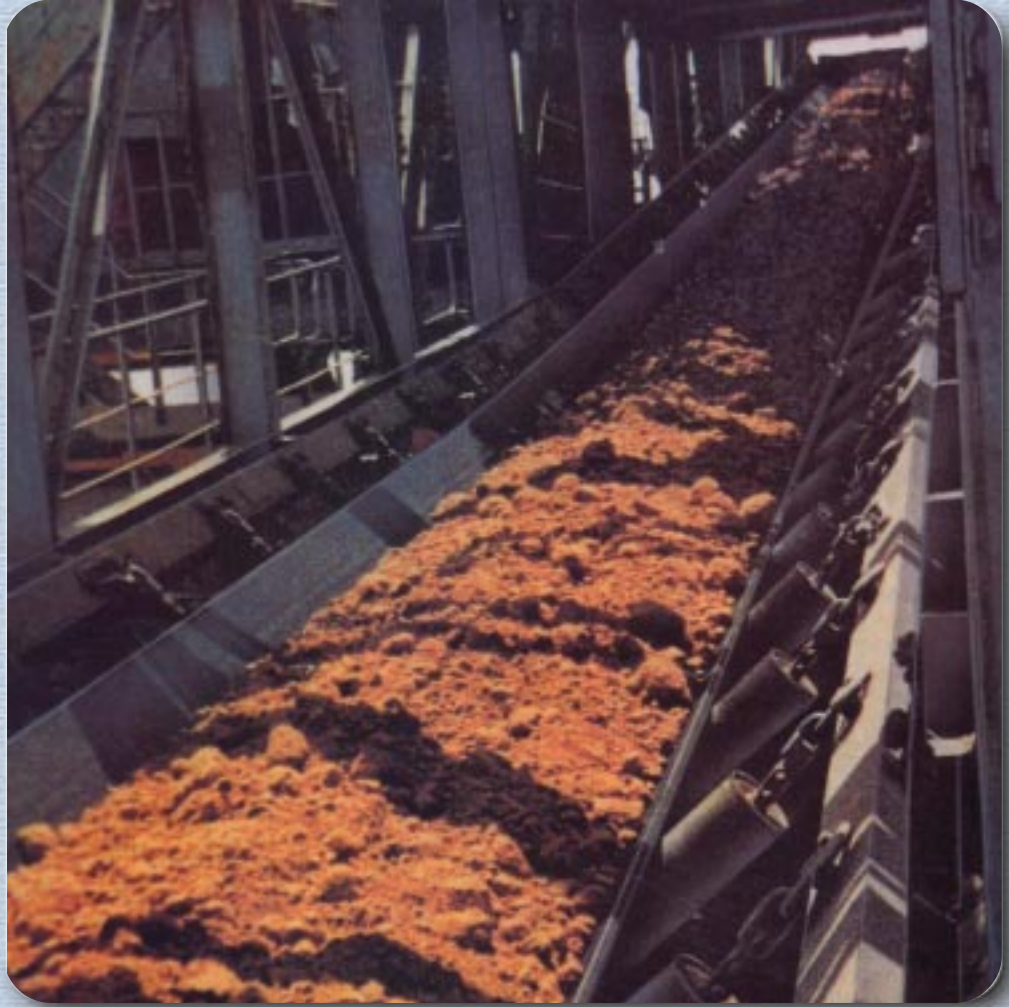


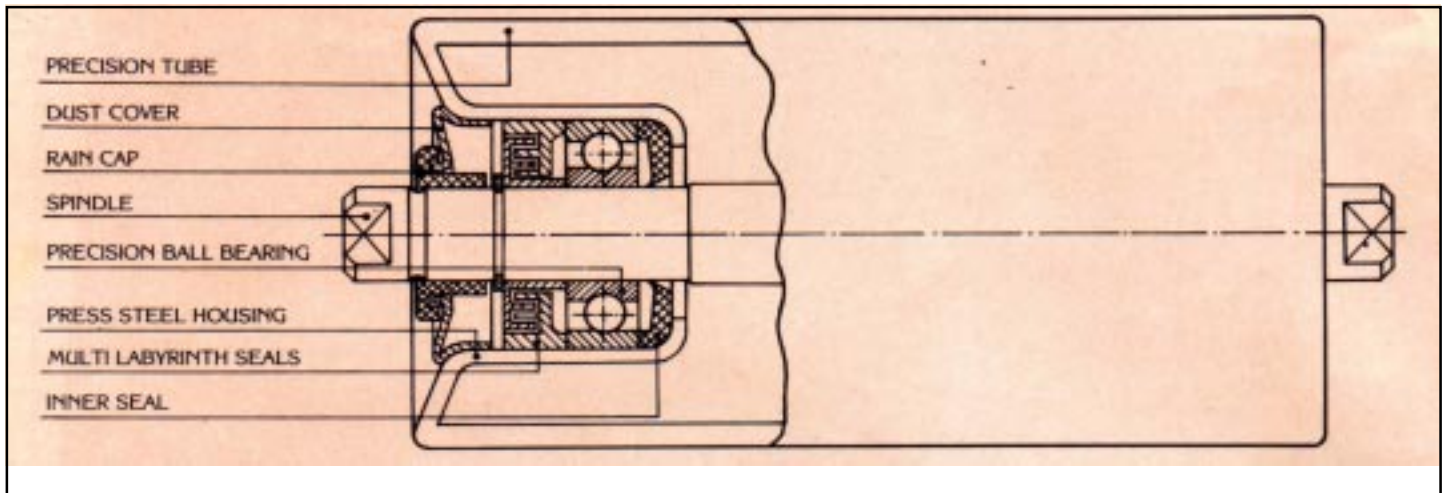
ELECON CONVEYOR IDLERS



ELECON



Always step ahead in technology



Range & Capacities :

Elecon has been manufacturing Conveyor Idlers for over 4 decades. Developments made and experience gained over the years have enabled us to offer most reliable and well-designed idlers for bulk material handling systems.

Our manufacturing programme covers idlers for capacities between 50 TPH and 20,000 TPH and wide range of different types of idlers to handle coal, iron ore, fertilizer, lignite, cement and other such bulk materials.

Construction Features :

Idler rollers are manufactured to suit individual conveyor designs with specific attention to reliability, economy and ease of maintenance. Rollers are manufactured by welding bearing housings with the tube simultaneously from both sides. This forms a rigid monobox design imparting greater strength to the rollers. Precision manufactured bearing housings, perfect non-rubbing type of sealing arrangement, lowest possible friction-factor and long maintenance free life are hallmarks of Elecon Idlers.

Shell :

The shell is made of ERW tubes as per IS 9295. Smooth surface of tubes ensures low friction between belt and roller. Close tolerances on concentricity, ovality and thickness of the shell enable the conveyors to run smooth without any vibrations which can damage the conveyor structures.

Bearing Housings:

Special extra-deep drawing quality CRCA strips are used which are extremely lightweight, thus reducing HP consumption and starting torque. Since the bearing housings have close

tolerances on eccentricity and surface finish at the bearing seating region equivalent to those specified for outer races of the bearings as per bearing manufacturers, the life of bearings and bearing assemblies is much longer.

Bearings :

Single row deep groove ball bearings with C-3 clearance are used as per International Standards. Ball bearings are preferred for conveyor idler applications due to varying load and temperature conditions as also to provide for wide deflections in the shaft.

Sealing Arrangements :

Non-rubbing type multi-stage labyrinth sealing arrangement ensures perfect sealing of bearings from ingress of dust, water, slurry and other contaminations. Negligible friction due to non-rubbing type of sealing arrangement permits rollers for co-efficient of friction as low as 0.0165.

Spindles :

Spindles are manufactured from cold drawn bright bars of adequate capacity with perfect tolerances on concentricity and surface finish at bearing seating region to impart concentricity to roller and to ensure perfect fit between bearings and shaft.

Grease :

Rollers are grease-packed and 'sealed-for-life'. Hi-lithium based grease is filled in measured quantity machines in bearings and sealing cavities. Due to this, rollers are not required to be re-lubricated for the entire designed rated life.

Economy :

Extremely light weight construction ensures less torque, imparting longer life to belt, motors, pulleys and driving arrangements; Extremely low friction factor ensures very low consumption of HP thereby conserving substantial amount of energy and resulting in greatest economy in operating costs. Grease-packed and 'sealed-for-life' construction permit absolutely maintenance-free running of rollers thereby saving huge amount of man-hours, Labour costs and consumables.

Guarantee :

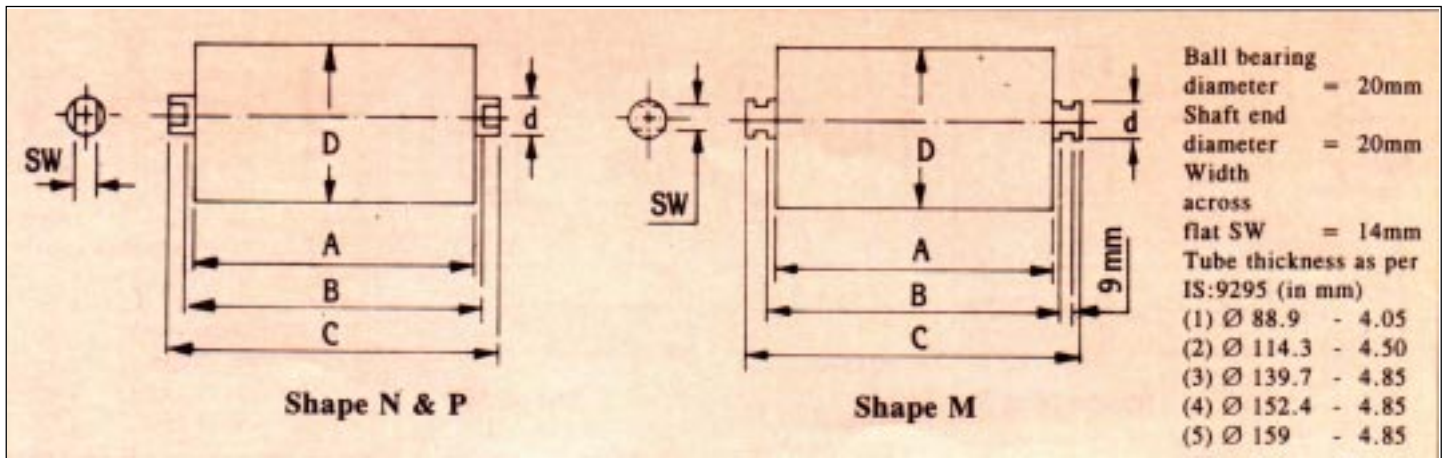
Rollers are guaranteed for 25,000 working hours, Selection of all components is based on an equally long life thereby enabling customer to achieve optimum life from each component of the roller.

Adjustability :

Rollers are manufactured to suit belt widths as per IS 4776 and are manufactured as per IS 8598 to suit existing conveyor frames. Elecon can manufacture specially designed idlers and can also supply adapters for the same.

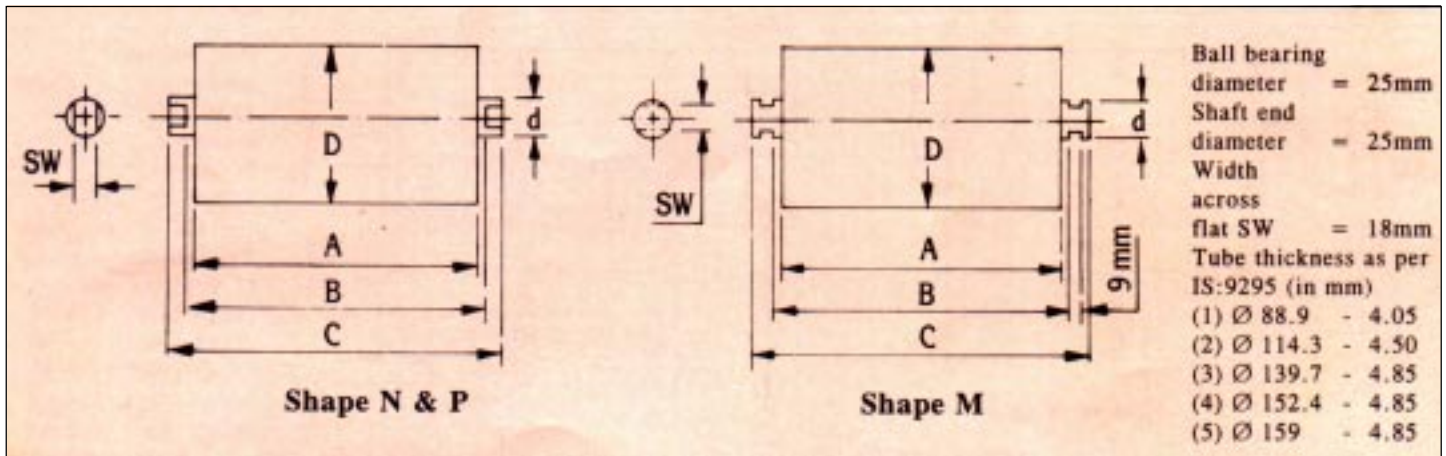
Quality Control :

All roller components are tested at every stage of manufacture. 100% assembled rollers are tested for free rotation and random sample tests are also carried out for ingress of dust, water, slurry and for measurements friction factor.



Belt width. (mm)	Roller dia. (mm)	Shape M					Shape N					Shape P				
		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller	
		A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total
400	88.9	500	508	536	5	7	250	258	278	3	4	160	168	186	2	3
	7				9	4				5	3				4	
	9				11	5				6	4				5	
	10				12	6				7	4				5	
*450	88.9	550	558	586	6	7	290	298	316	3	4	190	198	216	3	3
	8				10	4				5	3				4	
	11				12	5				6	4				5	
	11				13	6				7	5				6	
500	88.9	600	608	636	6	8	315	323	341	4	5	200	208	226	3	3
	8				10	5				6	4				4	
	11				13	6				8	5				5	
	12				14	7				8	5				6	
*600	88.9	700	708	736	7	9	350	358	376	4	5	235	243	261	3	4
	10				12	5				7	4				5	
	13				15	6				8	5				6	
	14				16	7				9	6				6	
650	88.9	750	758	786	7	10	380	388	406	4	6	250	258	276	3	4
	10				13	6				7	4				5	
	13				16	7				9	5				6	
	15				17	8				9	6				7	
*750	88.9	850	858	886	8	11	415	423	441	5	6	290	298	316	3	4
	11				14	6				8	5				6	
	15				18	8				9	6				7	
	16				19	9				10	7				8	
800	88.9	950	958	986	9	12	465	473	491	5	6	315	323	341	4	5
	13				16	7				8	5				6	
	17				20	9				10	6				7	
	18				21	10				11	7				8	
*900	159	1050	1058	1086	19	22	530	538	556	10	12	350	358	376	7	8
	10				13	6				7	4				5	
	14				17	8				9	5				7	
	18				22	10				12	7				8	
1000	88.9	1150	1158	1186	10	13	600	608	626	6	7	380	388	406	4	5
	14				17	8				9	5				7	
	18				22	10				12	7				8	
	20				24	11				13	8				10	
*1050	159	1200	1208	1236	21	24	625	633	651	11	13	400	408	426	8	9
	11				15	6				8	4				6	
	16				20	9				11	6				7	
	21				24	11				13	8				10	
1200	88.9	1400	1408	1436	13	17	700	708	726	7	9	465	473	491	5	6
	18				23	10				12	7				8	
	24				28	13				15	9				10	
	26				31	14				16	10				11	
1400	159	1600	1608	1636	27	32	800	808	826	15	17	530	538	556	10	12
	15				20	8				10	6				7	
	21				26	11				13	8				9	
	27				32	14				17	10				12	
1400	159	1600	1608	1636	30	35	800	808	826	16	18	530	538	556	11	13
	31				36	16				19	11				13	

* Belt width not covered in IS: 8598.
 For your replaced requirement with different mounting dimensions, please consult Eleon.
 Total weight of roller has been calculated considering ø 22 shaft.
 Weights indicated above are calculated.



Belt width. (mm)	Roller dia. (mm)	Shape M					Shape N					Shape P				
		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller	
BW	D	A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total
400	88.9	500	508	536	5	8	250	258	282	3	5	160	168	192	2	3
	114.3				7	10				4	6				3	4
	139.7				9	12				5	7				4	5
	152.4				10	13				6	7				4	5
*450	88.9	550	558	586	6	8	290	298	322	4	5	190	198	222	3	4
	114.3				8	11				5	6				4	5
	139.7				10	13				6	8				4	6
	152.4				11	14				7	8				5	6
500	88.9	600	608	636	6	9	315	323	347	4	5	200	208	232	3	4
	114.3				9	11				5	7				4	5
	139.7				11	14				7	8				5	6
	152.4				12	15				7	9				5	6
*600	88.9	700	708	736	7	10	350	358	382	4	6	235	243	267	3	4
	114.3				10	13				5	7				4	5
	139.7				13	16				7	9				5	6
	152.4				14	17				8	9				6	7
650	88.9	750	758	786	7	11	380	388	412	4	6	250	258	282	3	5
	114.3				10	14				6	8				4	6
	139.7				14	17				8	9				5	7
	152.4				15	18				8	10				6	7
*750	88.9	850	858	886	8	12	415	423	447	5	7	290	298	322	4	5
	114.3				12	15				6	8				5	6
	139.7				15	19				8	10				6	8
	152.4				16	20				9	11				7	8
800	88.9	950	958	986	9	13	465	473	497	5	7	315	323	347	4	5
	114.3				13	17				7	9				4	7
	139.7				17	21				9	11				5	8
	152.4				18	23				10	12				6	9
*900	88.9	1050	1058	1086	10	15	530	538	562	6	8	350	358	382	4	6
	114.3				14	19				8	10				5	7
	139.7				18	23				10	12				6	8
	152.4				20	25				11	13				7	9
1000	88.9	1150	1158	1186	11	10	600	608	632	6	9	380	388	412	4	6
	114.3				15	20				9	12				6	8
	139.7				20	25				11	14				8	9
	152.4				22	27				12	15				8	10
*1050	88.9	1200	1208	1236	11	17	625	633	657	6	9	400	408	432	4	6
	114.3				16	21				9	12				6	8
	139.7				21	26				12	14				8	10
	152.4				23	28				13	15				9	11
1200	114.3	1400	1408	1436	18	24	700	708	732	10	13	465	473	497	7	9
	139.7				24	30				13	16				9	11
	152.4				26	32				14	17				10	12
	159				27	34				15	18				10	12
1400	114.3	1600	1608	1636	21	28	800	808	832	11	15	530	538	562	8	10
	139.7				27	34				14	18				10	12
	152.4				30	37				16	19				11	13
	159				31	38				16	20				11	14
*1500	114.3	1700	1708	1736	22	29	850	858	882	12	15	565	573	597	8	11
	139.7				29	36				15	19				11	13
	152.4				32	39				17	20				12	14
	159				33	40				17	21				12	15
1600	114.3	1800	1808	1836	23	31	900	908	932	12	16	600	608	632	9	11
	139.7				30	38				16	20				11	14
	152.4				33	41				17	21				12	15
	159				35	43				18	22				13	15
1800	114.3	2000	2008	2036	26	34	1000	1008	1032	13	18	670	678	702	9	12
	139.7				34	42				18	22				12	15
	152.4				37	45				19	24				13	16
	159				38	47				20	24				14	17

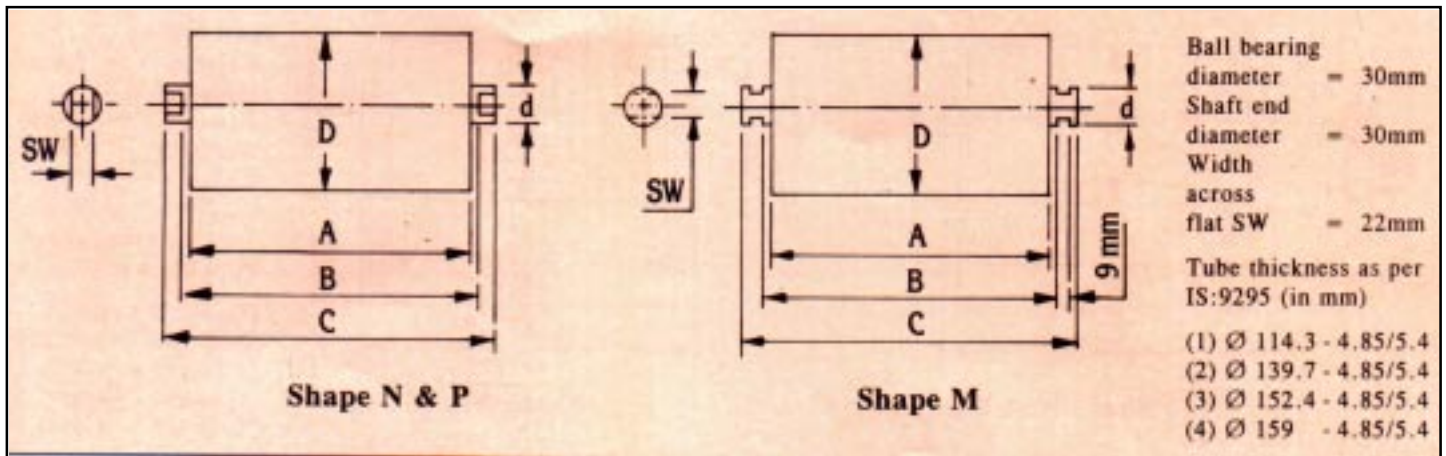
* Belt width not covered in IS : 8598.

For your replacement requirement with different mounting dimensions, please consult Elecon.

Total weight of roller has been calculated considering ø 26 shaft.

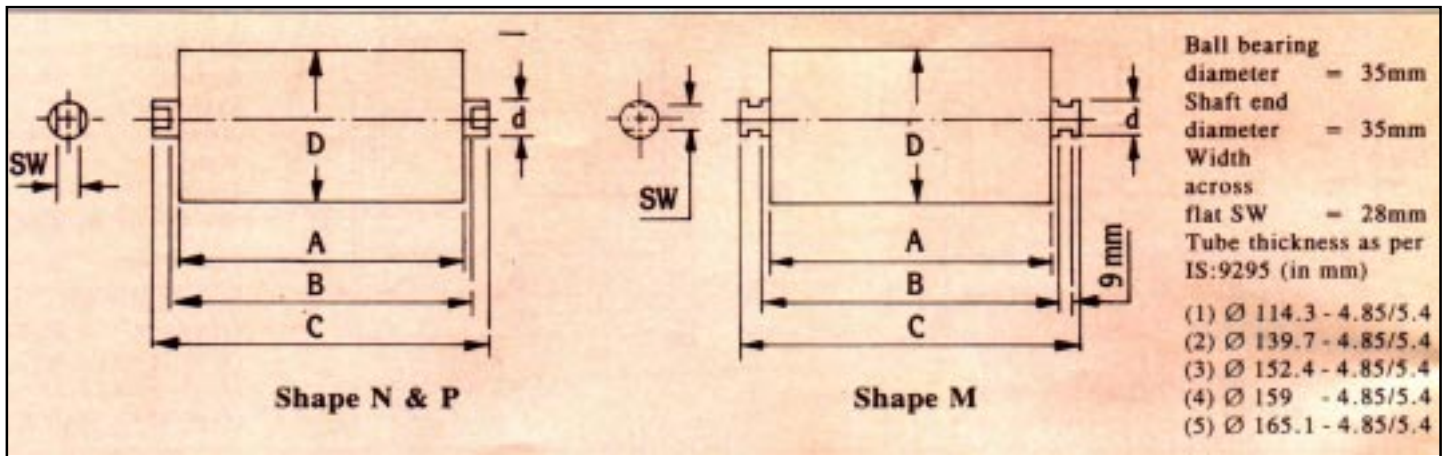
Weight given above is for roller type ENR/205. For ENR/305 add 0.15kg. for rotating weight & 0.30kg for total weight

Weight indicated above are calculated.



Belt width. (mm)	Roller dia. (mm)	Shape M					Shape N					Shape P				
		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller	
		A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total
1000	114.3				19	27				11	15				8	11
	139.7				23	31				13	18				9	12
	152.4	1150	1158	1186	25	33	600	608	632	15	19	380	388	412	10	13
	159				26	34				15	20				11	14
1200	114.3				23	32				13	18				9	13
	139.7				28	37				15	20				11	14
	152.4	1400	1408	1436	30	40	700	708	732	17	22	465	473	497	12	15
	159				32	41				17	22				12	16
1400	114.3				26	36				14	20				10	14
	139.7				31	42				17	23				12	16
	152.4	1600	1608	1636	34	45	800	808	832	19	24	530	538	562	13	17
	159				36	46				19	25				14	18
1500	114.3				27	38				15	21				11	15
	139.7				33	44				18	24				13	17
	152.4	1700	1708	1736	36	47	850	858	882	19	25	565	573	597	14	18
	159				38	49				20	26				15	19
1600	114.3				28	40				15	22				11	15
	139.7				35	47				19	25				13	18
	152.4	1800	1808	1836	38	50	900	908	932	20	27	600	608	632	15	19
	159				40	52				21	28				15	20
1800	114.3				31	45				17	24				12	17
	139.7				38	52				21	27				15	19
	152.4	2000	2008	2036	42	55	1000	1008	1032	22	29	670	678	702	16	21
	159				44	57				23	30				17	21
2000	114.3				34	49				18	26				13	19
	139.7				42	57				22	30				16	21
	152.4	2200	2208	2236	46	60	1100	1108	1132	24	32	750	758	782	18	23
	159				48	62				25	33				18	24
*2200	114.3				39	55				21	29				14	20
	139.7				47	64				25	33				17	23
	152.4	2500	2508	2536	52	68	1250	1258	1282	27	36	800	808	832	19	24
	159				54	70				29	37				19	25
*2400	114.3				43	61				23	32				15	22
	139.7				53	71				28	37				19	25
	152.4	2800	2808	2836	58	76	1400	1408	1432	30	40	900	908	932	20	27
	159				60	78				32	41				21	28

* Belt width not covered in IS : 8598.
 For your replacement requirement with different mounting dimensions, please consult Elecon.
 Total weight of roller has been calculated considering \varnothing 32 shaft & tube thickness 5.4.
 Weight given above is for roller type ENR/306. For ENR/206 deduct 0.52 kg for rotating part weight & 0.67kg for total weight.
 Weights indicated above are calculated.



Belt width. (mm)	Roller dia. (mm)	Shape M					Shape N					Shape P				
		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller	
		A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total
1000	114.3	1150	1158	1186	19	29	600	608	632	11	16	380	388	412	8	12
	139.7				23	33				13	19				9	13
	152.4				25	35				15	20				10	14
	159				26	36				15	20				11	14
	165.1				27	37				16	21				11	15
1200	114.3	1400	1408	1436	23	35	700	708	732	13	19	465	473	497	9	13
	139.7				28	40				15	21				11	15
	152.4				30	43				17	23				12	16
	159				32	43				17	23				12	17
	165.1				33	45				18	24				13	17
1400	114.3	1600	1608	1636	26	39	800	808	832	14	21	530	538	562	10	15
	139.7				31	45				17	24				12	17
	152.4				34	48				19	25				13	18
	159				36	49				19	26				14	19
	165.1				37	50				20	27				14	19
*1500	114.3	1700	1708	1736	27	41	850	858	882	15	22	565	573	597	11	16
	139.7				33	47				18	25				13	18
	152.4				36	50				19	26				14	19
	159				38	52				20	28				15	20
	165.1				39	53				21	28				15	20
1600	114.3	1800	1808	1836	28	43	900	908	932	15	23	600	608	632	11	16
	139.7				35	50				19	26				13	19
	152.4				38	53				20	29				15	20
	159				40	55				21	29				15	21
	165.1				41	56				22	30				16	21
1800	114.3	2000	2008	2036	31	48	1000	1008	1032	17	25	670	678	702	12	18
	139.7				38	55				21	29				15	21
	152.4				42	58				22	31				16	22
	159				44	60				23	32				17	23
	165.1				46	62				24	33				17	23
2000	114.3	2200	2208	2236	34	52	1100	1108	1132	18	28	750	758	782	13	20
	139.7				42	60				22	32				16	23
	152.4				46	64				24	34				18	24
	159				48	66				25	35				18	25
	165.1				50	68				26	36				19	25
*2200	114.3	2500	2508	2536	39	59	1250	1258	12823	21	31	800	808	832	14	21
	139.7				47	68				25	36				17	24
	152.4				52	72				27	38				19	25
	159				54	75				29	39				19	26
	165.1				56	77				30	43				20	27
*2400	114.3	2800	2808	2836	43	66	1400	1408	1432	23	34	900	908	932	15	23
	139.7				53	76				28	40				19	27
	152.4				58	81				30	42				20	29
	159				60	83				32	43				21	29
	165.1				63	86				33	44				22	30

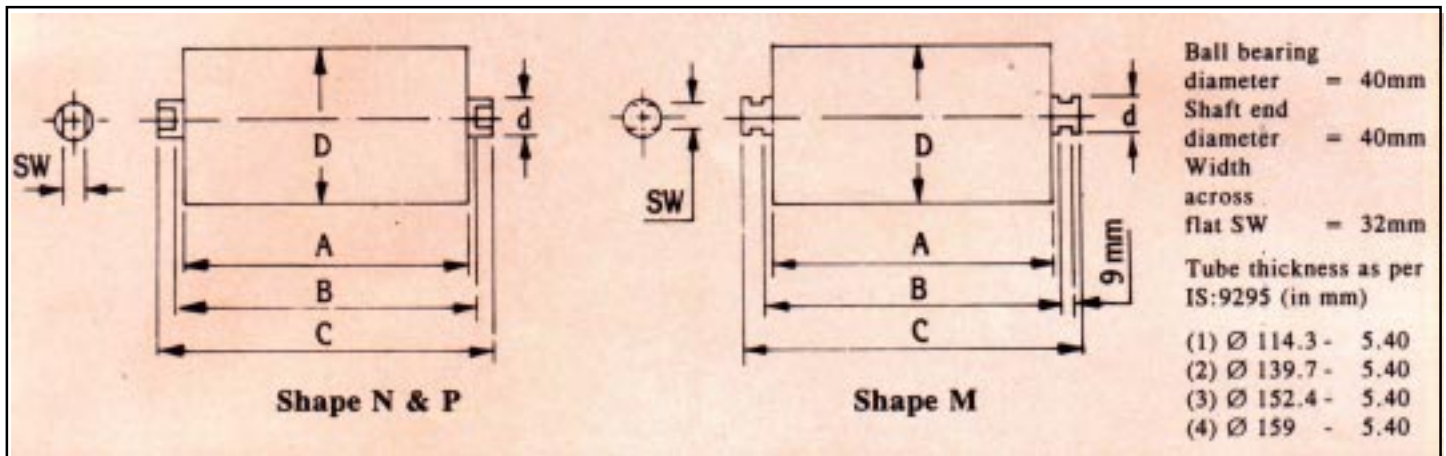
* Belt width not covered in IS : 8598.

For your replacement requirement with different mounting dimensions, please consult Elecon.

Total weight of roller has been calculate considering ø36 shaft & tube thickness 5.4.

Rollers of the tube O.D. 168.1, with brg. 6307, have, recently been developed.

Weights indicated above are calculated.

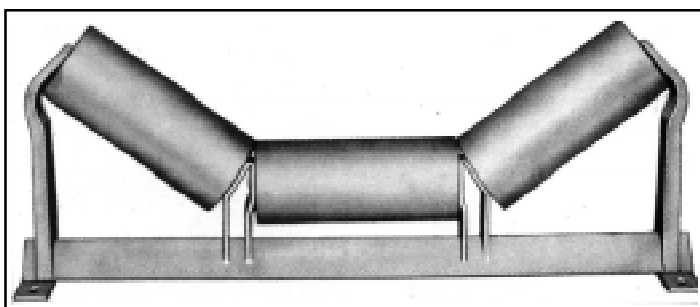
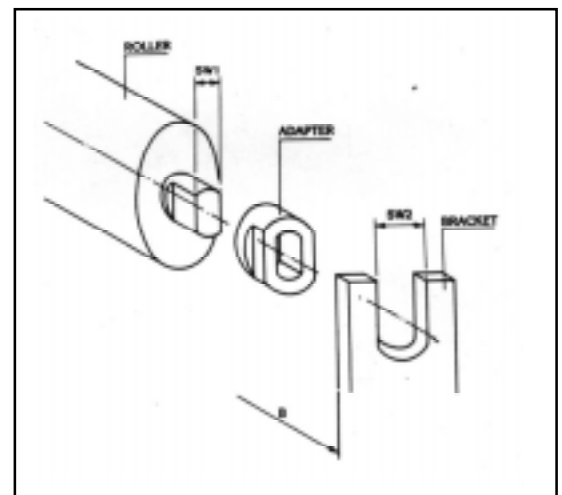
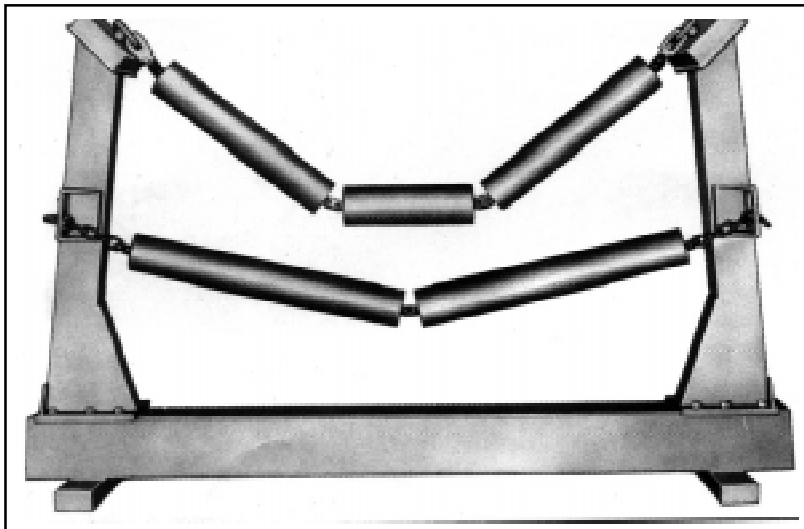


Belt width. (mm)	Roller dia. (mm)	Shape M					Shape N					Shape P				
		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller		Dimension in mm			Weight in kg per roller	
		A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total	A	B	C	Rotating parts	Total
1000	139.7	1150	1158	1186	25	38	600	608	632	15	22	380	388	412	11	16
	152.4				27	40				16	23				12	17
	159				28	41				17	24				12	17
1200	139.7	1400	1408	1436	29	45	700	708	732	17	25	465	473	497	12	18
	152.4				32	48				18	26				13	19
	159				33	49				19	27				14	20
1400	139.7	1600	1608	1636	33	51	800	808	832	18	28	530	538	562	14	20
	152.4				36	54				20	29				15	21
	159				37	55				23	30				15	22
*1500	139.7	1700	1708	1736	35	54	850	858	882	19	29	565	573	597	14	21
	152.4				37	57				21	31				15	22
	159				39	59				22	32				16	23
1600	139.37	1800	1808	1836	40	63	900	908	932	20	31	600	608	632	15	22
	152.4				39	60				22	32				16	23
	159				41	62				23	33				17	24
1800	139.7	2000	2008	2036	40	63	1000	1008	1032	22	34	670	678	702	16	24
	152.4				43	66				24	36				17	25
	159				45	68				25	37				18	26
2000	139.7	2200	2208	2236	43	68	1100	1108	1132	24	37	750	758	782	18	27
	152.4				47	72				26	39				19	28
	159				49	74				27	40				20	29
*2200	139.7	2500	2508	2536	49	77	1250	1258	1282	26	41	800	808	832	18	28
	152.4				53	81				29	43				20	29
	159				55	84				30	44				21	30
*2400	139.7	2800	2808	2836	54	86	1400	1408	1432	29	45	900	908	932	20	31
	152.4				59	90				32	48				22	32
	159				62	93				33	49				23	33
*2600	139.7	3000	3008	3036	58	91	1500	1508	1532	31	48	950	958	982	21	32
	152.4				63	97				34	51				23	34
	159				66	99				35	52				24	35

* Belt width not covered in IS : 8598.
 For your replacement requirement with different mounting dimensions, please consult Elecon.
 Total weight of roller has been calculated considering ø42 shaft.
 Weights indicated above are calculated.

Please furnish the following data for selection :

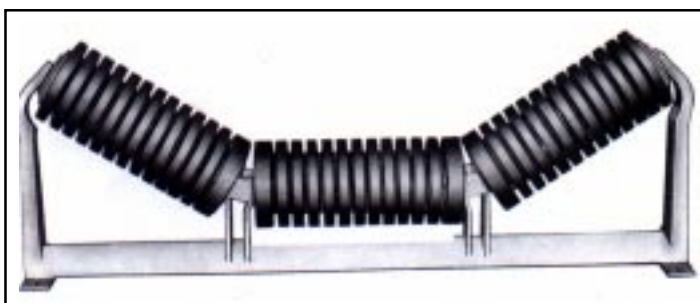
Conveyor	Belt	Roller	Spindle
Capacity	Width	Diameter	Diameter
Length	Speed	Length	Length
Lift	Pitch	Shell thickness	Bearing size



Adjustable design :

Due to persistent demand from our customers, we have introduced a special feature in our idler roller design, whereby it is possible for us to supply spare rollers to suit your existing idler frame with the use of an adapter. Adapter will be supplied by us duly fitted.

You get the benefit of our latest technology in idler roller design without changing your idler frames. That means you save time as well as cost.





Wagon loader at an Iron Ore dressing plant.



Shiftable conveyor with driveheads at a Lignite mine.



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