



INDUSTRY

CONSTRUCTION IDLER ROLLER
FOR INDUSTRIAL

FISATECH

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DRIVEN PVC ROLLERS

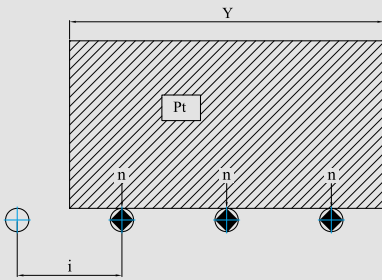
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figura 1



Description of a roller conveyor

It is composed of a frame that supports a series of rollers. The load can be moved by the force of gravity or by a motorized unit. The frames can be constructed in straight lines or be curved.

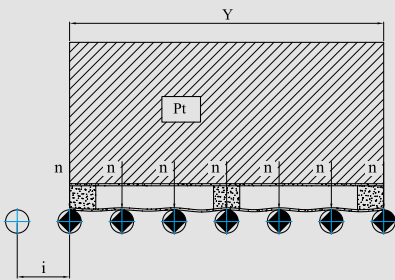
The load to convey must have a smooth surface, be solid and long and must rest on at least 3 rollers (fig. 1).

The distance between the roller centrelines must be reduced when the support surfaces so require (figures 2-3).

- y = length of the load
- i = distance between the roller centrelines
- n = number of rollers subjected to the load
- pt = weight of the load

example
i = y/n

figura 2



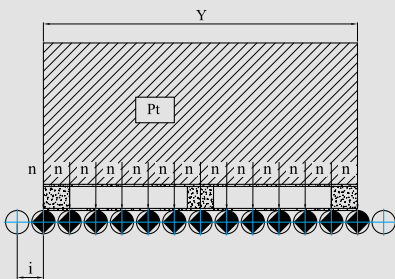
Distribution of the load on the rollers

- pt = weight of the load
- p = nominal load bearing on one roller (daN)
- pm = maximum load bearing on one roller (daN)
- n = number of the rollers subjected to the load
- W = coefficient of support of the conveyed load
- W = 1.5 when the number of rollers subjected to the load is n ≥ 3 and the support surface is not extremely rigid.
- W = 2 when the number of rollers subjected to the load is n > 3 and the support surface is extremely rigid.

The formula indicates the maximum load for determining the choice of roller.

$$pm = \frac{pt}{n} \times W$$

figura 3



Slope

The calculation of the percentage slope required for moving the load correctly is constrained by a coefficient of friction that is difficult to evaluate as it is necessary to take account of the friction between the load and the rollers, the friction of the bearings, the ratio between the weight of the rollers and the load, and countless incidental causes such as, for example, rubbing by the material of the conveyed load up against the containment guides.

If the loads are heavy, they cannot be conveyed for great distances unless decelerating rollers are employed.

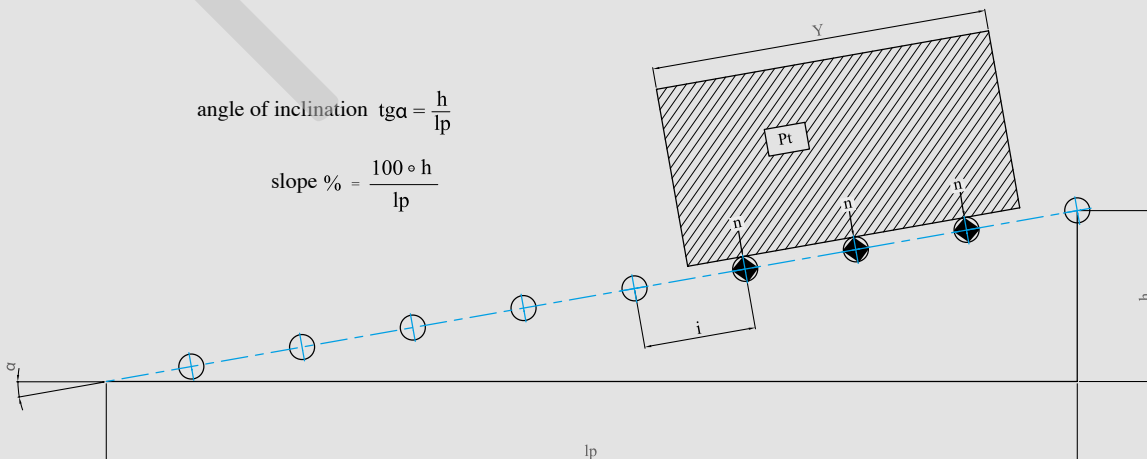
Because it is impossible to determine the slope required for conveying the load with certainty, we recommend carrying out a practical test and, **for indicative purposes only, we propose the following maximum values.**

- 2% for metal loads
- 4% for wooden loads
- 8% for cardboard loads

- α=angle of inclination
- lp=plan length of the conveyor
- h=height drop of the conveyor

$$\text{angle of inclination } \text{tg}\alpha = \frac{h}{lp}$$

$$\text{slope \%} = \frac{100 \cdot h}{lp}$$



ROLLER DESCRIPTION

ROLLER SKIRT

This is a tube obtained from a band steel, hot galvanized in accordance with UNI EN10219-1 Fe S 235 JR standards.

BEARING HEADS

These are made in metal sheet in accordance with UNI-EN 10139 Fe DC04LC standards, pressed and calibrated, with the insertion of prelubricated and protected balls.

SHAFTS

Drawn in steel made in accordance with UNI-EN 10233 Fe C40 standards.

CONSTRUCTION TOLERANCES

The degree of tolerance of the linear dimensions in the construction of the rollers corresponds to the mean wording in accordance with ISO 2768-1 standards.

PRODUCTION AND FACING OF TUBE ON REQUEST

*AISI 304 stainless steel
AISI 316 stainless steel
aluminium
PVC sheath facing
Rubber sheath facing*

WARRANTY

For the purposes of the warranty, use the product according to specifications provided in this catalog.

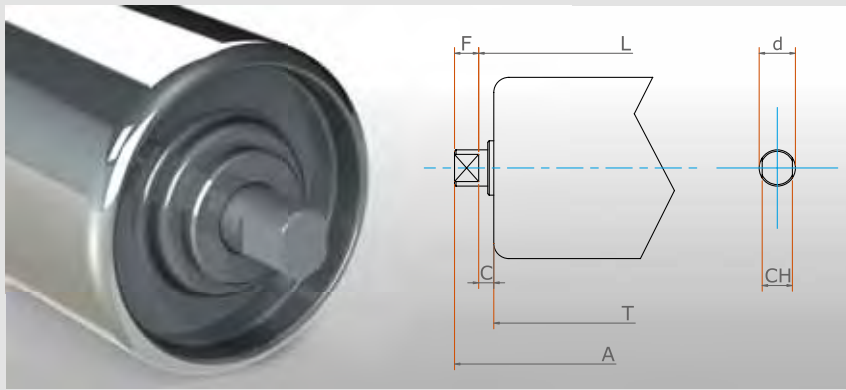
All the dimensions are subject to machining tolerances and even though the drawings and illustrations are faithful nevertheless they are not binding.

TYPE		L70 SERIES							
L	RPM	10	30	50	80	100	150	200	250
Roller lenght		C= Roller loads in daN							
100/300	C	30,00	20,00	15,00	12,00	10,00	8,00	6,00	4,00
400		29,40	19,60	14,70	11,76	9,80	7,84	5,88	3,92
500		28,80	19,20	14,40	11,52	9,60	7,68	5,76	3,84
600		28,20	18,80	14,10	11,28	9,40	7,52	5,64	3,76
700		27,30	18,20	13,65	10,92	9,10	7,28	5,46	3,64
800		26,70	17,80	13,35	10,68	8,90	7,12	5,34	3,56
900		26,40	17,60	13,20	10,56	8,80	7,04	5,28	3,52
1000		25,80	17,20	12,90	10,32	8,60	6,88	5,16	3,44
1200		24,00	16,00	12,00	9,60	8,00	6,40	4,80	3,20
TYPE		D Speed m/sec							
L2407	24	0,013	0,038	0,063	0,100	0,126	0,188	0,251	0,314
L3007	30	0,016	0,047	0,079	0,126	0,157	0,236	0,314	0,393
L3207	32	0,017	0,050	0,084	0,134	0,167	0,251	0,335	0,419
L4007	40	0,021	0,063	0,105	0,167	0,209	0,314	0,419	0,523
L4807	48	0,025	0,075	0,126	0,201	0,251	0,377	0,502	0,628
L5007	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654

TYPE		L80 SERIES							
L	RPM	10	30	50	80	100	150	200	250
Roller lenght		C= Roller loads in daN							
100/300	C	38,00	22,00	17,00	14,00	12,00	10,00	8,00	6,00
400		37,24	21,56	16,66	13,72	11,76	9,80	7,84	5,88
500		36,48	21,12	16,32	13,44	11,52	9,60	7,68	5,76
600		35,72	20,68	15,98	13,16	11,28	9,40	7,52	5,64
700		34,58	20,02	15,47	12,74	10,92	9,10	7,28	5,46
800		33,82	19,58	15,13	12,46	10,68	8,90	7,12	5,34
900		33,44	19,36	14,96	12,32	10,56	8,80	7,04	5,28
1000		32,68	18,92	14,62	12,04	10,32	8,60	6,88	5,16
1200		30,40	17,60	13,60	11,20	9,60	8,00	6,40	4,80
TYPE		D Speed m/sec							
L2408	24	0,013	0,038	0,063	0,100	0,126	0,188	0,251	0,314
L3008	30	0,016	0,047	0,079	0,126	0,157	0,236	0,314	0,393
L3208	32	0,017	0,050	0,084	0,134	0,167	0,251	0,335	0,419
L4008	40	0,021	0,063	0,105	0,167	0,209	0,314	0,419	0,523
L4808	48	0,025	0,075	0,126	0,201	0,251	0,377	0,502	0,628
L5008	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654

TYPE		L100 SERIES							
L	RPM	10	30	50	80	100	150	200	250
Roller lenght		C= Roller loads in daN							
100/300	C	80,00	50,00	35,00	28,00	23,00	20,00	13,00	10,00
400		78,40	49,00	34,30	27,44	22,54	19,60	12,74	9,80
500		76,80	48,00	33,60	26,86	22,08	19,20	12,48	9,60
600		75,20	47,00	32,90	26,32	21,62	18,80	12,22	9,40
700		73,60	46,00	32,20	25,70	21,16	18,40	11,96	9,20
800		72,00	45,00	31,50	25,20	20,70	18,00	11,70	9,00
900		70,40	44,00	30,80	24,64	20,24	17,60	11,44	8,80
1000		67,20	42,00	29,40	23,52	19,32	16,80	10,92	8,40
1200		64,00	40,00	28,00	22,40	18,40	16,00	10,40	8,00
TYPE		D Speed m/sec							
L3010	30	0,016	0,047	0,079	0,126	0,157	0,236	0,314	0,393
L3210	32	0,017	0,050	0,084	0,134	0,167	0,251	0,335	0,419
L4810	48	0,025	0,075	0,126	0,201	0,251	0,377	0,502	0,628
L5010	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654

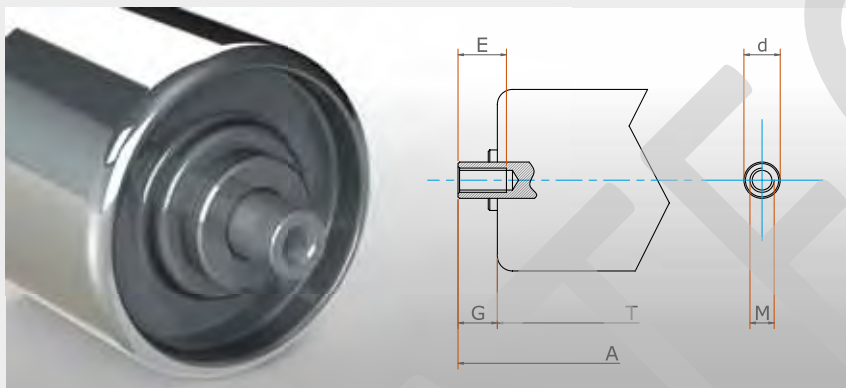
TYPE		L120 SERIES							
L	RPM	10	30	50	80	100	150	200	250
Roller lenght		C= Roller loads in daN							
100/300	C	120,00	70,00	50,00	40,00	35,00	30,00	24,00	20,00
400		117,60	68,60	49,00	39,20	34,30	29,40	23,52	19,60
500		115,20	67,20	48,00	38,40	33,60	28,80	23,04	19,20
600		112,80	65,80	47,00	37,60	32,90	28,20	22,56	18,80
700		110,40	64,40	46,00	36,80	32,20	27,60	22,08	18,40
800		108,00	63,00	45,00	36,00	31,50	27,00	21,60	18,00
900		105,60	61,60	44,00	35,20	30,80	26,40	21,12	17,60
1000		100,80	58,80	42,00	33,60	29,40	25,20	20,16	16,80
1200		96,00	56,00	40,00	32,00	28,00	24,00	19,20	16,00
TYPE		D Speed m/sec							
L3212	32	0,017	0,050	0,084	0,134	0,167	0,251	0,335	0,419
L4812	48	0,025	0,075	0,126	0,201	0,251	0,377	0,502	0,628
L5012	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654



TYPE "A" COUPLING FORM

A milling operation is carried out on the roller shaft in order to obtain the key for the insertion of the various supports.

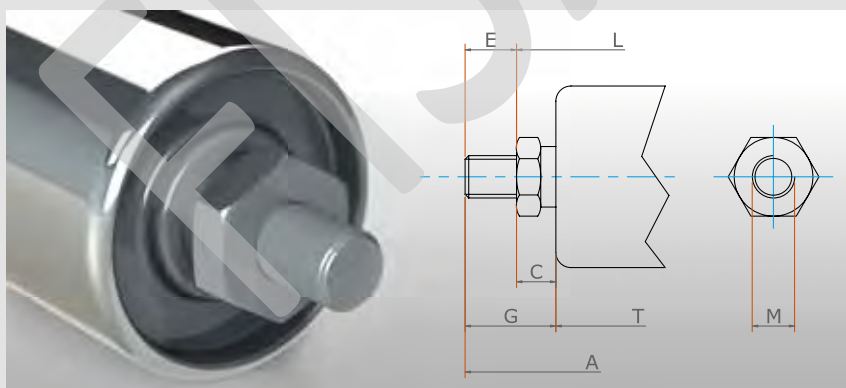
TYPE "A"	L100 SERIES	SERIES L120
C	5	5
F	9	9
d	10	12
CH	8	10



TYPE "B" COUPLING FORM

A drilling and internal threading operation is carried out on the roller shaft for fixing it to the structure.

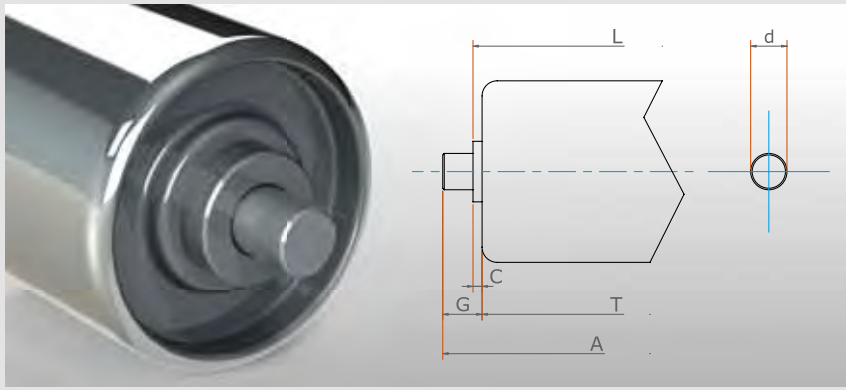
TYPE "B"	L80 SERIES	L100 SERIES	SERIES L120
G	13	13	13
E	12	15	15
d	8	10	12
M	5	6	8



TYPE "C" COUPLING FORM

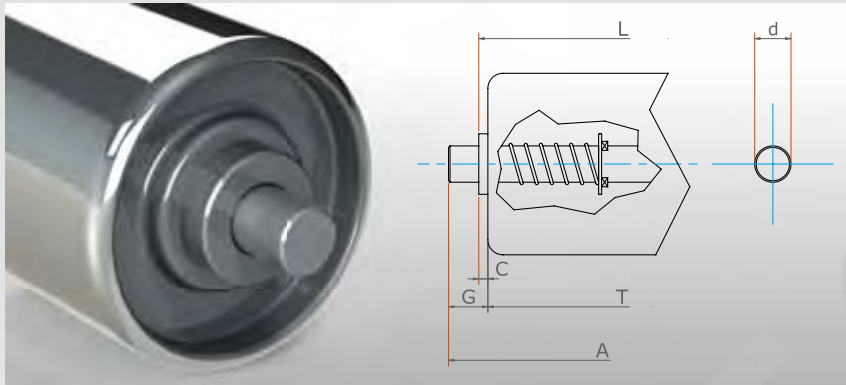
A turning and external threading operation is carried out on the roller shaft for fixing it to the structure.

TYPE "C"	L80 SERIES	L100 SERIES	SERIES L120
G	24	25	31
C	9	10	11
E	15	15	20
M	8	10	12



TYPE "D" COUPLING FORM

A projection is left on the roller shaft in such a way as to allow it to be fixed to the structure.



TYPE "E" COUPLING FORM

A retractable shaft to permit fixing to the structure.

L70 SERIES

D/E TYPE	20	24	30	32	40	48	50
G	10	11	11,5	10,5	12	11,5	12
C	2	3	3,5	2,5	4	3,5	4
d	7	7	7	7	7	7	7

L80 SERIES

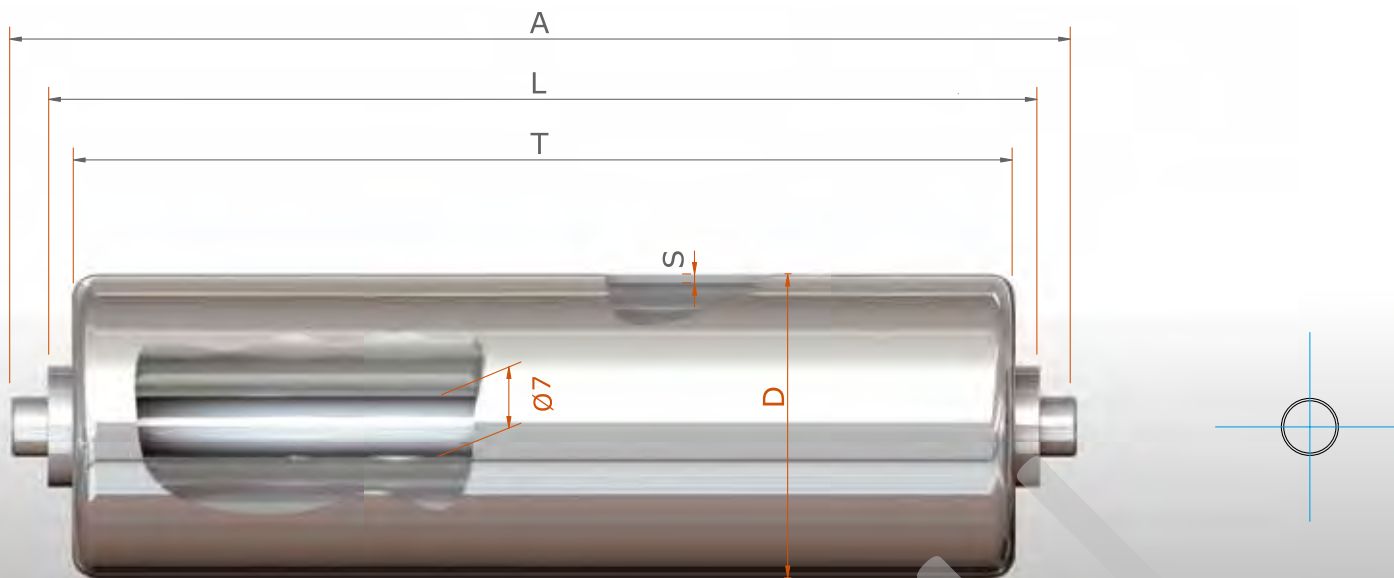
D/E TYPE	24	30	32	40	48	50
G	11	11,5	10,5	12	11,5	12
C	3	3,5	2,5	4	3,5	4
d	8	8	8	8	8	8

L100 SERIES

D/E TYPE	32	48	50
G	12	13,5	14
C	2	3,5	4
d	10	10	10

L120 SERIES

D/E TYPE	32	48	50
G	12	13,5	14
C	2	3,5	4
d	12	12	12



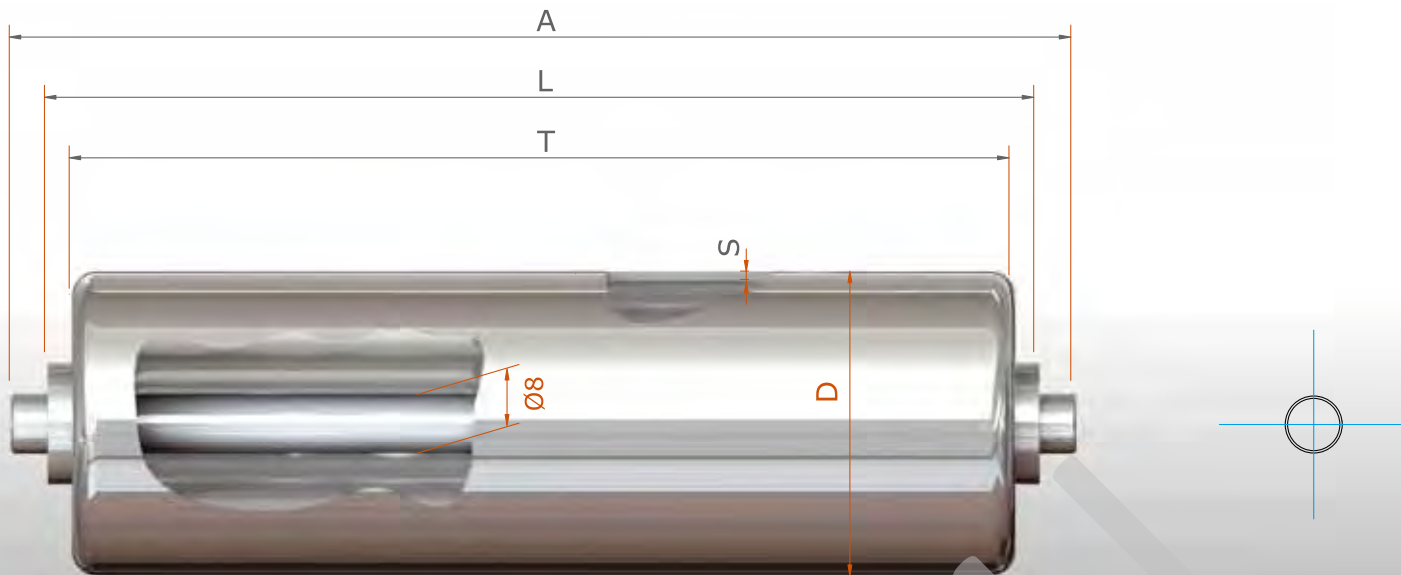
L70 IDLER ROLLERS								
CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
L2007	20	1,2	L+16	L-4	100	1000	0,193	0,008
L2407	24			L-6			0,227	0,010
L3007	30	L-7		0,312			0,013	
L3207	32	L-5		0,330			0,014	
L4007	40	L-8		0,419			0,017	
L4807	48	L-7		0,504			0,020	
L5007	50	L-8		0,522		0,021		
								1200

* The dimensions in the table refer to a type "E" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with heads containing prelubricated and protected balls.
Bearing heads pressed at the end in order to form an integral body with the tube.
These are recommended for conveyors with light loads and those that work by gravity in general.

L80 IDLER ROLLERS



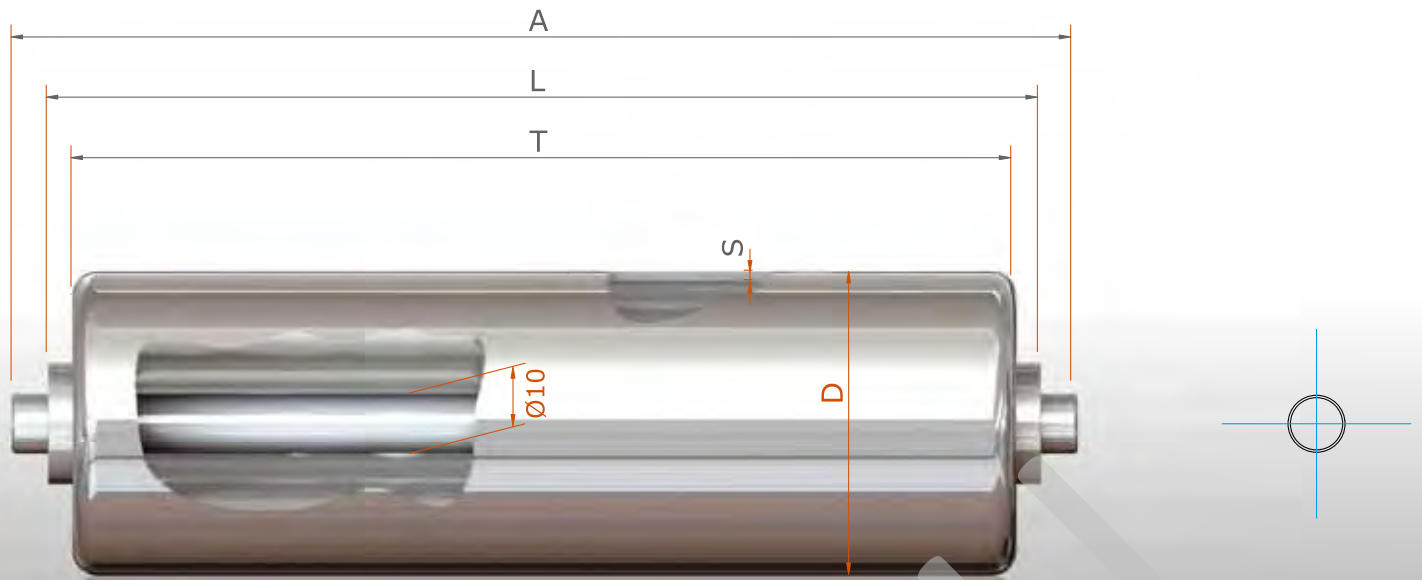
L80 IDLER ROLLERS

CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
L2408	24	1,2	L+16	L-6	100	1000	0,243	0,011
L3008	30	1,5		L-7			0,332	0,014
L3208	32			L-5			0,350	0,015
L4008	40			L-8		0,435	0,018	
L4808	48	1200		L-7		0,520	0,021	
L5008	50			L-8		0,542	0,022	

* The dimensions in the table refer to a type "E" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with heads containing prelubricated and protected balls.
 Bearing heads pressed at the end in order to form an integral body with the tube.
 These are recommended for conveyors with light loads and those that work by gravity in general.



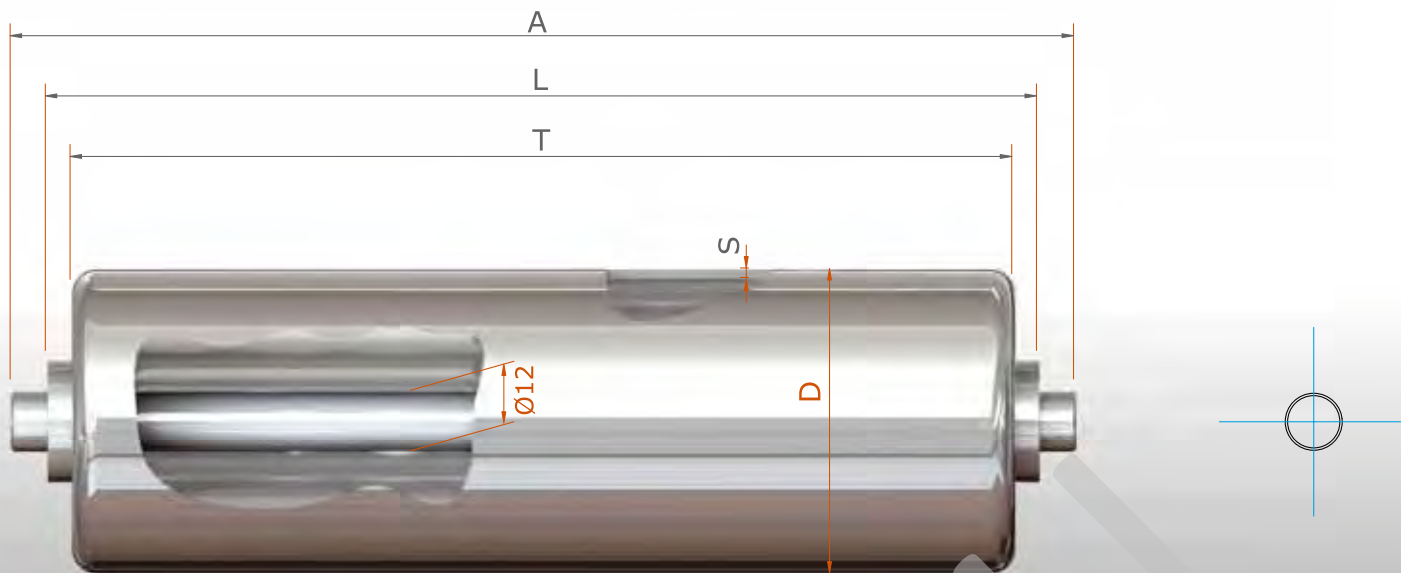
L100 IDLER ROLLERS								
CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
L3210	32	1,5	L+20	L-4	100	1200	0,398	0,018
L4810	48			L-7				
L5010	50			L-8				

* The dimensions in the table refer to a type "E" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with heads containing prelubricated and protected balls.
 Bearing heads pressed at the end in order to form an integral body with the tube.
 These are recommended for conveyors with light loads and those that work by gravity in general.

L120 IDLER ROLLERS



L120 IDLER ROLLERS

CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
L3212	32	1,5	L+20	L-4	100	1200	0,453	0,020
L4812	48			L-7				
L5012	50			L-8				

* The dimensions in the table refer to a type "E" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with heads containing prelubricated and protected balls.
 Bearing heads pressed at the end in order to form an integral body with the tube.
 These are recommended for conveyors with light loads and those that work by gravity in general.

ROLLER DESCRIPTION

ROLLER SKIRT

This is a tube obtained from a band steel, hot galvanized in accordance with UNI EN10219-1 Fe S 235 JR standards.

BEARING HEADS

These are made in metal sheet in accordance with UNI-EN 10139 Fe DC04LC standards, pressed and calibrated, with prelubricated and protected ball bearings.

SHAFTS

Drawn in steel made in accordance with UNI-EN 10233 Fe C40 standards.

CONSTRUCTION TOLERANCES

The degree of tolerance of the linear dimensions in the construction of the rollers corresponds to the mean wording in accordance with ISO 2768-1 standards.

PRODUCTION AND FACING OF TUBE ON REQUEST

*AISI 304 stainless steel
AISI 316 stainless steel
aluminium
PVC sheath facing
Rubber sheath facing.*

WARRANTY

For the purposes of the warranty, use the product according to specifications provided in this catalog.

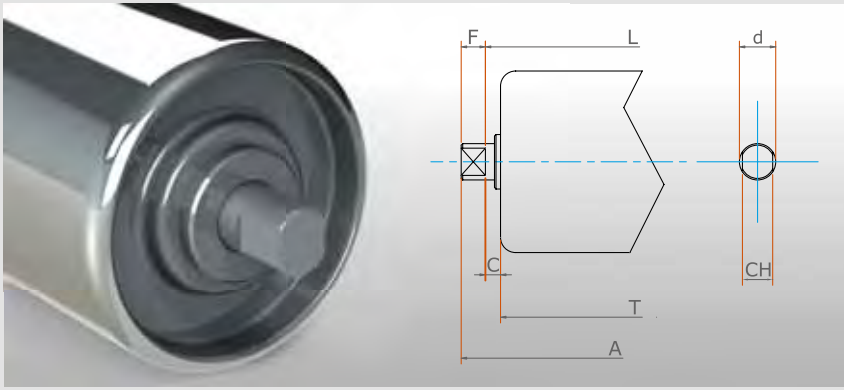
All the dimensions are subject to machining tolerances and even though the drawings and illustrations are faithful nevertheless they are not binding.

TYPE		M100 SERIES							
L	giri/min RPM	10	30	50	80	100	150	200	250
<i>Roller lenght</i>		<i>C= Roller loads in daN</i>							
100/500	C	90,00	58,00	42,00	34,00	28,00	24,00	15,00	12,00
600		84,60	54,52	39,48	31,96	26,32	22,56	14,10	11,28
700		82,80	53,36	38,64	31,28	25,76	22,08	13,80	11,04
800		81,00	52,20	37,80	30,60	25,20	21,60	13,50	10,80
900		79,20	51,04	36,96	29,92	24,64	21,12	13,20	10,56
1000		78,30	50,46	36,54	29,58	24,36	20,88	13,05	10,44
1200		74,70	48,14	34,86	28,22	23,24	19,92	12,45	9,96
1400		71,10	45,82	33,18	26,86	22,12	18,96	11,85	9,48
1600		67,50	43,50	31,50	25,50	21,00	18,00	11,25	9,00
<i>TYPE</i>		<i>D</i>							
		<i>Speed m/sec</i>							
M5010	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654
M6010	60	0,031	0,094	0,157	0,251	0,314	0,471	0,628	0,785

TYPE		M110 SERIES							
L	RPM	10	30	50	80	100	150	200	250
<i>Roller lenght</i>		<i>C= Roller loads in daN</i>							
100/500	C	110,00	65,00	50,00	40,00	35,00	30,00	25,00	20,00
600		103,40	61,10	47,00	37,60	32,90	28,20	23,50	18,80
700		101,20	59,80	46,00	36,80	32,20	27,60	23,00	18,40
800		99,00	58,50	45,00	36,00	31,50	27,00	22,50	18,00
900		96,80	57,20	44,00	35,20	30,80	26,40	22,00	17,60
1000		95,70	56,55	43,50	34,80	30,45	26,10	21,75	17,40
1200		91,30	53,95	41,50	33,20	29,05	24,90	20,75	16,60
1400		86,90	51,35	39,50	31,60	27,65	23,70	19,75	15,80
1600		82,50	48,75	37,50	30,00	26,25	22,50	18,75	15,00
<i>TYPE</i>		<i>D</i>							
		<i>Speed m/sec</i>							
M5011	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654
M6011	60	0,031	0,094	0,157	0,251	0,314	0,471	0,628	0,785

TYPE		M120 SERIES							
L	RPM	10	30	50	80	100	150	200	250
<i>Roller lenght</i>		<i>C= Roller loads in daN</i>							
100/500	C	130,00	78,00	57,00	46,00	39,00	33,00	26,00	21,00
600		122,20	73,32	53,58	43,24	36,66	31,02	24,44	19,74
700		119,60	71,76	52,44	42,32	35,88	30,36	23,92	19,32
800		117,00	70,20	51,30	41,40	35,10	29,70	23,40	18,90
900		114,40	68,64	50,16	40,48	34,32	29,04	22,88	18,48
1000		113,10	67,86	49,59	40,02	33,93	28,71	22,62	18,27
1200		107,90	64,74	47,31	38,18	32,37	27,39	21,58	17,43
1400		102,70	61,62	45,03	36,34	30,81	26,07	20,54	16,59
1600		97,50	58,50	42,75	34,50	29,25	24,75	19,50	15,75
<i>TYPE</i>		<i>D</i>							
		<i>Speed m/sec</i>							
M5012	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654
M6012	60	0,031	0,094	0,157	0,251	0,314	0,471	0,628	0,785
M7612	76	0,040	0,119	0,199	0,318	0,398	0,597	0,795	0,994

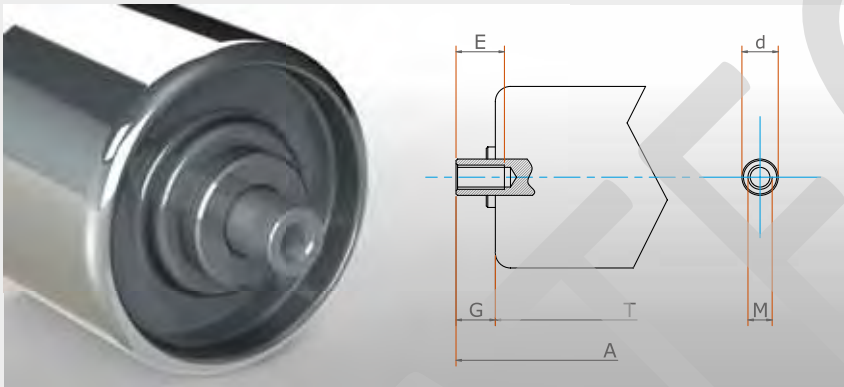
TYPE		M150 SERIES							
L	RPM	10	30	50	80	100	150	200	250
<i>Roller lenght</i>		<i>C= Roller loads in daN</i>							
100/500	C	160,00	130,00	95,00	70,00	60,00	50,00	40,00	35,00
600		150,40	122,20	89,30	65,80	56,40	47,00	37,60	32,90
700		147,20	119,60	87,40	64,40	55,20	46,00	36,80	32,20
800		144,00	117,00	85,50	63,00	54,00	45,00	36,00	31,50
900		140,80	114,40	83,60	61,60	52,80	44,00	35,20	30,80
1000		139,20	113,10	82,65	60,90	52,20	43,50	34,80	30,45
1200		132,80	107,90	78,85	58,10	49,80	41,50	33,20	29,05
1400		126,40	102,70	75,05	55,30	47,40	39,50	31,60	27,65
1600		120,00	97,50	71,25	52,50	45,00	37,50	30,00	26,25
<i>TYPE</i>		<i>D</i>							
		<i>Speed m/sec</i>							
M5015	50	0,026	0,079	0,131	0,209	0,262	0,393	0,523	0,654
M6015	60	0,031	0,094	0,157	0,251	0,314	0,471	0,628	0,785
M7615	76	0,040	0,119	0,199	0,318	0,398	0,597	0,795	0,994



TYPE "A" COUPLING FORM

A milling operation is carried out on the roller shaft in order to obtain the key for the insertion of the various supports

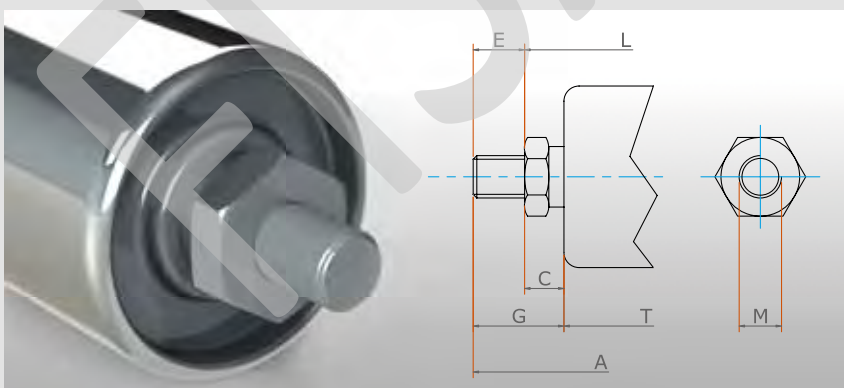
TYPE "A"	M100 SERIES	M120 SERIES	M150 SERIES
C	4	4	4
F	9	9	9
d	10	12	15
CH	8	10	12



TYPE "B" COUPLING FORM

A drilling and internal threading operation is carried out on the roller shaft for fixing it to the structure.

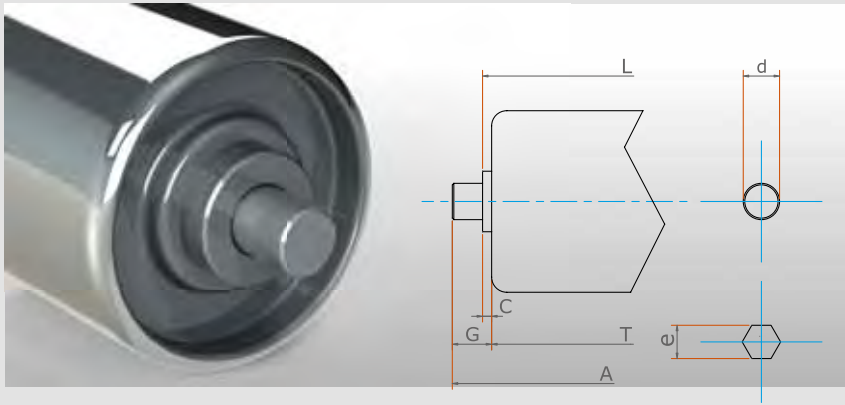
TYPE "B"	M100 SERIES	M120 SERIES	M150 SERIES
G	13	13	13
E	12	15	15
d	10	12	15
M	6	8	8/10



TYPE "C" COUPLING FORM

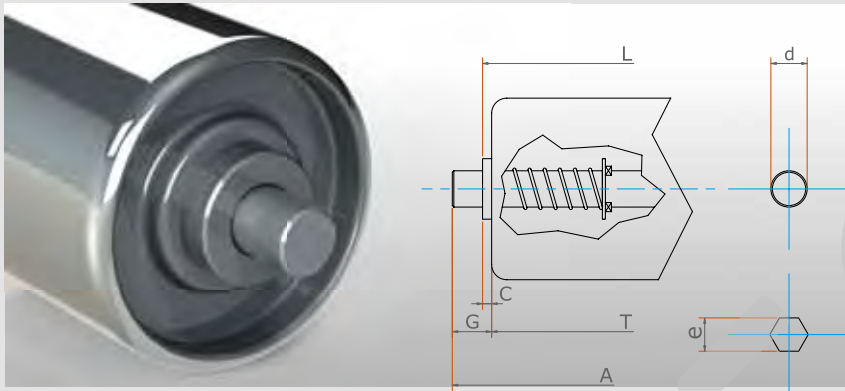
A turning and external threading operation is carried out on the roller shaft for fixing it to the structure.

TYPE "C"	M100 SERIES	M120 SERIES	M150 SERIES
G	25	31	35
C	10	11	12
E	15	20	23
M	10	12	14



TYPE "D" COUPLING FORM

A projection is left on the roller shaft in such a way as to allow it to be fixed to the structure.



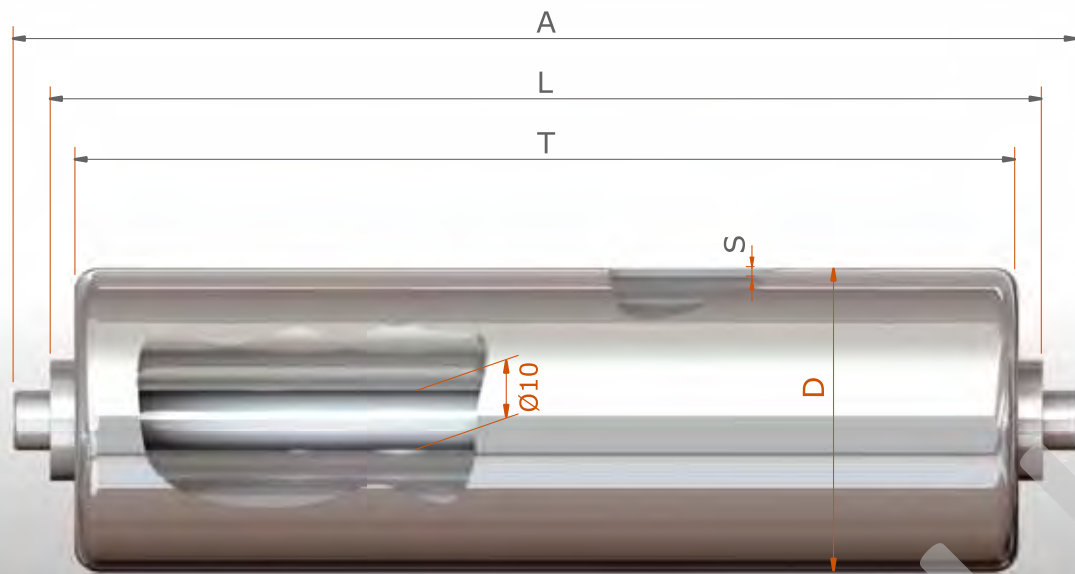
TYPE "E" COUPLING FORM

A retractable shaft to permit fixing to the structure.

D/E TYPE	M100 SERIES
G	13,5
C	3,5
d	10

D/E TYPE	M110 SERIES
G	12,5
C	2,5
e	11

D/E TYPE	M120/50 SERIES	M120/60 SERIES	M120/76 SERIES
G	13,5	13,5	15
C	3,5	3,5	5
d	12	12	12



M100 IDLER ROLLERS								
CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
M5010	50	1,5	L+20	L-7	100	1400	0,650	0,024
M6010	60					1600		

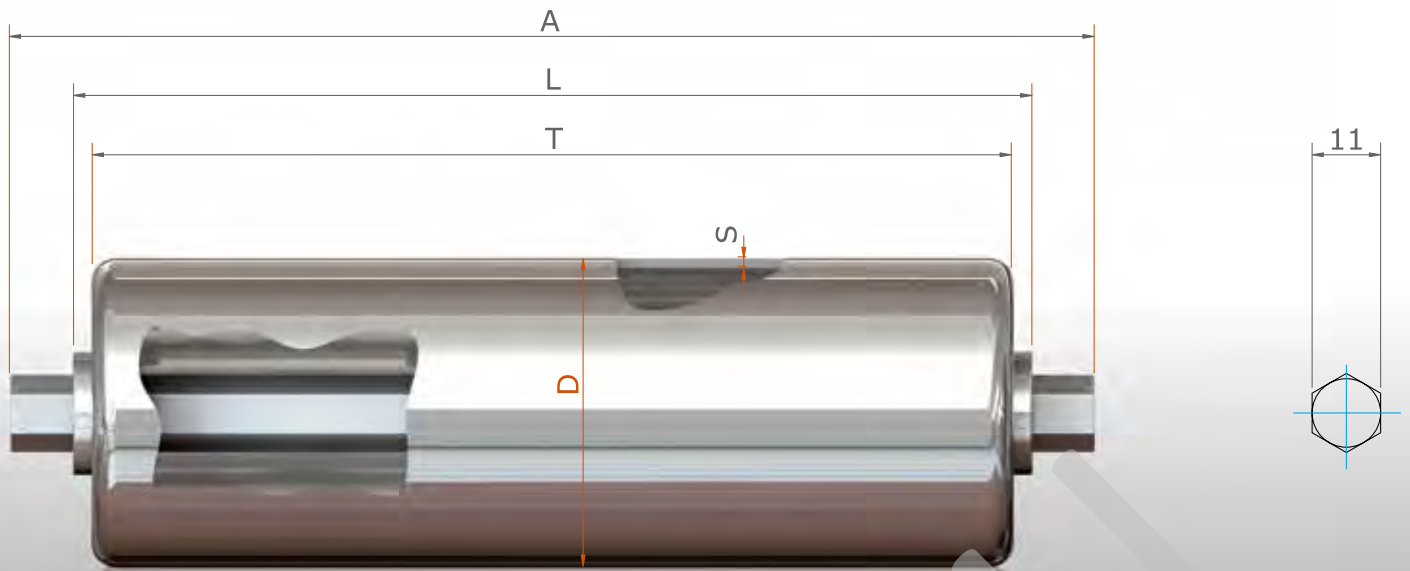
* The dimensions in the table refer to a type "E" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with oblique bearings with special ball construction, with cemented and hardened rolling races, prelubricated and protected.

Bearing heads pressed at the end in order to form an integral body with the tube.

These are recommended for conveyors with medium-light loads, those that work by gravity in general and motorized ones.



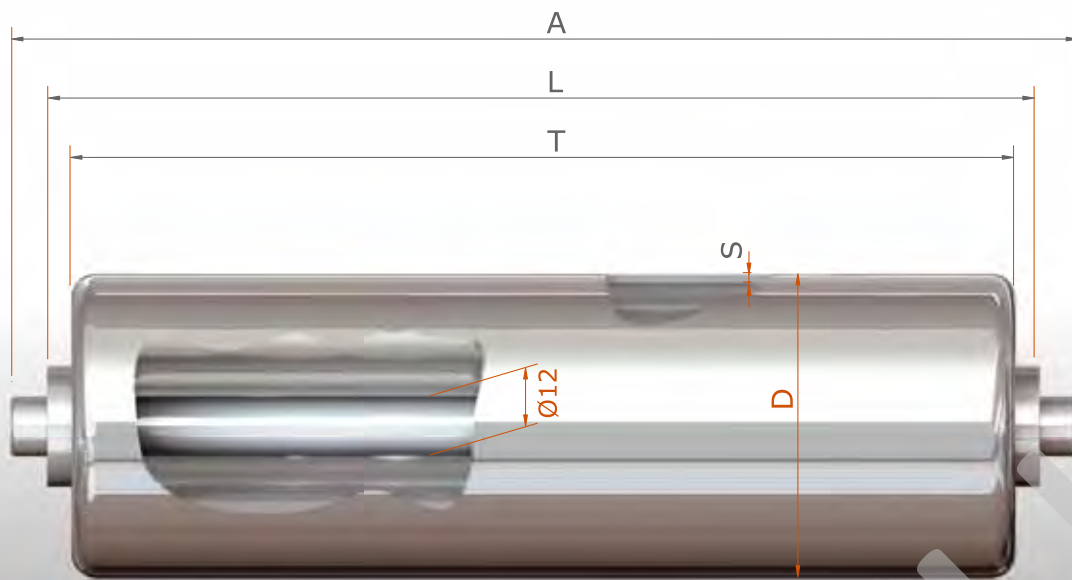
M110 IDLER ROLLERS

CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
M5011	50	1,5	L+20	L-5	100	1400	0,678	0,025
M6011	60					1600		

* The dimensions in the table refer to a type "A" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with oblique bearings with special ball construction, with cemented and hardened rolling races, prelubricated and protected.
 Bearing heads pressed at the end in order to form an integral body with the tube.
 These are recommended for conveyors with medium-light loads, those that work by gravity in general and motorized ones.



M120 IDLER ROLLERS								
CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
M5012	50	1,5	L+20	L-7	100	1200	0,705	0,027
M6012	60			L-10				
M7612	76	2				1400	1,115	0,045

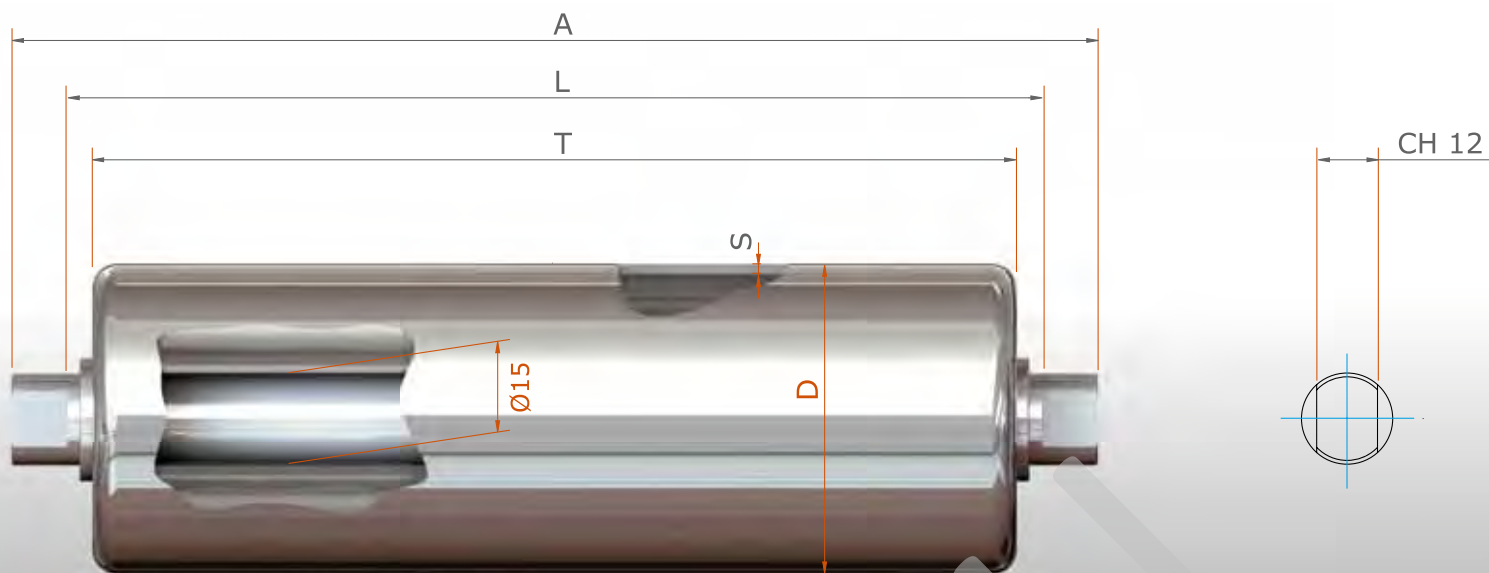
* The dimensions in the table refer to a type "E" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with oblique bearings with special ball construction, with cemented and hardened rolling races, prelubricated and protected.

Bearing heads pressed at the end in order to form an integral body with the tube.

These are recommended for conveyors with medium-light loads, those that work by gravity in general and motorized ones.



M150 IDLER ROLLERS

CODE	D	S	A	T	L MIN	L MAX	WEIGHT L =200	BY CM
M5015	50	1,5	L+18	L-8	100	1400	0,812	0,032
M6015	60					1600	0,903	0,036
M7615	76	2					1,223	0,050

* The dimensions in the table refer to a type "A" form of coupling.

PRODUCT DESCRIPTION

Galvanized steel rollers with oblique bearings with special ball construction, with cemented and hardened rolling races, prelubricated and protected.

Bearing heads pressed at the end in order to form an integral body with the tube.

These are recommended for conveyors with medium-light loads, those that work by gravity in general and motorized ones.

ROLLER DESCRIPTION**ROLLER SKIRT**

This is a tube in hot-rolled steel in accordance with UNI-EN 10219-1 Fe S235JRH standards

BEARING HEADS

Made of sheet metal in accordance with UNI-EN 10139 Fe DC05LC pressed and calibrated with ISO M 7 tolerance

SHAFTS

Drawn in steel made in accordance with UNI-EN 10233 Fe C40 standards

BEARINGS

Rigid radial ball bearings from leading brands

PROTECTIONS

The protections are made of polyamide resin with double or triple labyrinth seals, mounted on steel closures made in accordance with UNI-EN 10139 standards treated electro-galvanically in accordance with UNI-ISO 2081

CONSTRUCTION TOLERANCES

The degree of tolerance of the linear dimensions in the construction of the rollers corresponds to the meaning in accordance with ISO 2768-1 standards.

PRODUCTION AND FACING OF TUBE ON REQUEST

*AISI 304 stainless steel
AISI 316 stainless steel
aluminium
PVC sheath facing
Rubber sheath facing*

WARRANTY

For the purposes of the warranty, use the product according to specifications provided in this catalog.

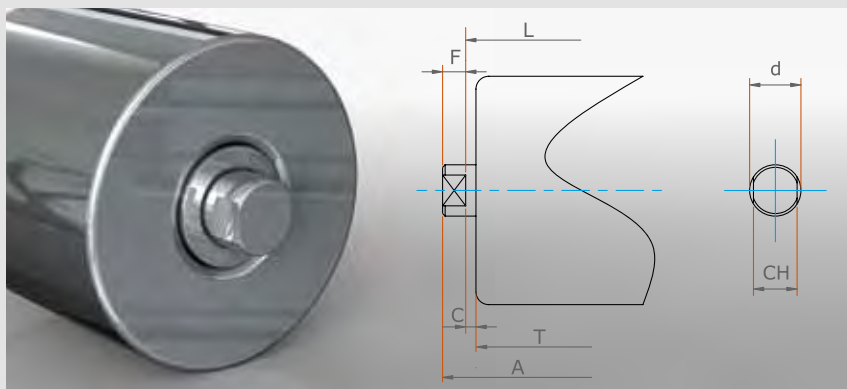
All the dimensions are subject to machining tolerances and even though the drawings and illustrations are faithful nevertheless they are not binding.

TYPE		P300 SERIES									
L	RPM	10	25	50	100	150	200	250	300	400	500
<i>Roller lenght</i>		<i>C= Roller loads in daN</i>									
200/400	C	360	293	233	186	164	146	140	127	116	107
600		310	253	201	160	140	126	120	109	101	93
800		282	230	183	145	130	114	109	99	91	84
1000		263	215	169	136	120	108	101	93	85	79
1200		239	198	157	127	111	98	93	85	78	72
1400		220	179	141	113	100	90	85	78	71	65
1600		199	162	130	102	91	81	77	69	63	59
1800		178	144	115	91	81	72	67	62	57	53
2000		156	127	101	79	71	63	59	54	49	46
2200		134	112	87	68	61	52	50	48	42	40
2400		112	91	72	56	51	45	42	40	36	33
TYPE		D	<i>Speed m/sec</i>								
P3001	d 38	0,020	0,050	0,099	0,199	0,298	0,398	0,497	0,597	0,795	0,994
P3003	d 60	0,031	0,079	0,157	0,314	0,471	0,628	0,785	0,942	1,256	1,570
P3004	d 76	0,040	0,099	0,199	0,398	0,597	0,795	0,994	1,193	1,591	1,989
P3006	d 89	0,047	0,116	0,233	0,466	0,699	0,932	1,164	1,397	1,863	2,329
P3007	d 102	0,053	0,133	0,267	0,534	0,801	1,068	1,335	1,601	2,135	2,669

TYPE		P400 SERIES									
L	RPM	10	25	50	100	150	200	250	300	400	500
<i>Roller lenght</i>		<i>C= Roller loads in daN</i>									
200/400	C	600	481	382	303	262	239	221	211	190	176
600		556	445	355	280	245	222	206	195	177	163
800		515	411	326	260	224	205	190	180	165	152
1000		475	390	301	239	207	189	175	165	151	140
1200		435	348	276	220	190	176	160	151	138	128
1400		392	315	249	199	171	156	145	136	125	116
1600		356	286	227	180	158	143	131	125	115	106
1800		327	263	208	165	144	132	121	116	106	97
2000		298	238	190	151	132	121	110	105	95	88
2200		268	215	173	139	120	110	99	94	86	80
2400		239	192	153	121	106	95	88	84	77	71
TYPE		D	<i>Speed m/sec</i>								
P4003	d 60	0,031	0,079	0,157	0,314	0,471	0,628	0,785	0,942	1,256	1,570
P4004	d 76	0,040	0,099	0,199	0,398	0,597	0,795	0,994	1,193	1,591	1,989
P4006	d 89	0,047	0,116	0,233	0,466	0,699	0,932	1,164	1,397	1,863	2,329
P4007	d 102	0,053	0,133	0,267	0,534	0,801	1,068	1,335	1,601	2,135	2,669
P4008	d 108	0,057	0,141	0,283	0,565	0,848	1,130	1,413	1,696	2,261	2,826
P4009	d 133	0,070	0,174	0,348	0,696	1,044	1,392	1,740	2,088	2,784	3,480

TYPE		P500 SERIES									
L	RPM	10	25	50	100	150	200	250	300	400	500
Roller length		C= Roller loads in daN									
200/800	C	800	742	588	467	407	371	342	322	293	273
1000		743	690	546	435	378	345	318	300	274	254
1200		688	642	507	402	350	320	296	278	253	235
1400		632	588	466	369	322	294	271	256	233	216
1600		580	536	425	341	295	266	249	233	212	196
1800		522	483	385	306	266	241	223	210	192	177
2000		475	440	350	277	241	220	204	191	175	162
2200		423	393	311	245	215	198	180	169	155	145
2400		377	350	268	198	188	172	156	149	133	126
2600		320	301	232	173	161	150	135	131	115	109
TYPE	D	Speed m/sec									
P5006	d 89	0,047	0,116	0,233	0,466	0,699	0,932	1,164	1,397	1,863	2,329
P5007	d 102	0,053	0,133	0,267	0,534	0,801	1,068	1,335	1,601	2,135	2,669
P5008	d 108	0,057	0,141	0,283	0,565	0,848	1,130	1,413	1,696	2,261	2,826
P5009	d 133	0,070	0,174	0,348	0,696	1,044	1,392	1,740	2,088	2,784	3,480
P5010	d 159	0,083	0,208	0,416	0,832	1,248	1,664	2,080	2,496	3,328	4,161

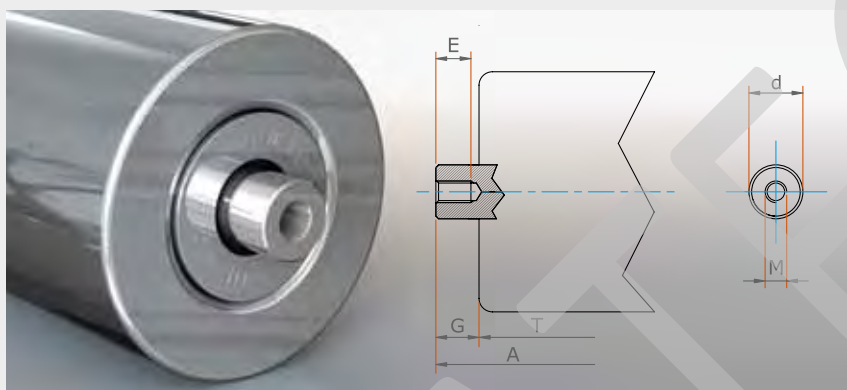
TYPE		P600 SERIES									
L	RPM	10	25	50	100	150	200	250	300	400	500
Roller length		C= Roller loads in daN									
200/1200	C	1000	932	817	649	566	517	479	450	410	378
1400		972	907	795	631	550	502	465	438	400	368
1600		920	858	752	598	519	475	440	412	377	349
1800		866	807	709	565	489	448	415	390	355	332
2000		813	757	665	530	460	419	375	365	333	311
2200		760	709	622	495	431	393	364	341	310	288
2400		707	660	582	458	401	365	345	318	286	267
2600		655	614	537	422	369	336	315	295	265	246
TYPE	D	Speed m/sec									
P6006	d 89	0,047	0,116	0,233	0,466	0,699	0,932	1,164	1,397	1,863	2,329
P6007	d 102	0,053	0,133	0,267	0,534	0,801	1,068	1,335	1,601	2,135	2,669
P6008	d 108	0,057	0,141	0,283	0,565	0,848	1,130	1,413	1,696	2,261	2,826
P6009	d 133	0,070	0,174	0,348	0,696	1,044	1,392	1,740	2,088	2,784	3,480
P6010	d 159	0,083	0,208	0,416	0,832	1,248	1,664	2,080	2,496	3,328	4,161



TYPE "A" COUPLING FORM

A milling operation is carried out on the roller shaft in order to obtain the key for the insertion of the various supports

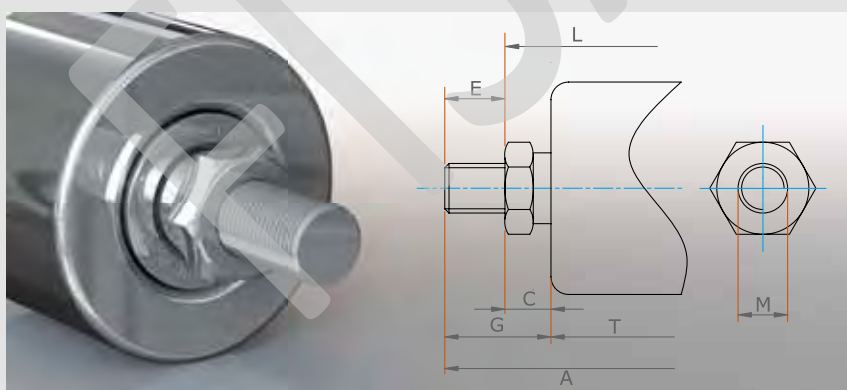
A TYPE	P300 SERIES	P400 SERIES	P500 SERIES	P600 SERIES
C	4	4	4	4
F	9	9	12	12
d	20	20	25	30
CH	17	14/17	17/18	22



TYPE "B" COUPLING FORM

A drilling and internal threading operation is carried out on the roller shaft for fixing it to the structure.

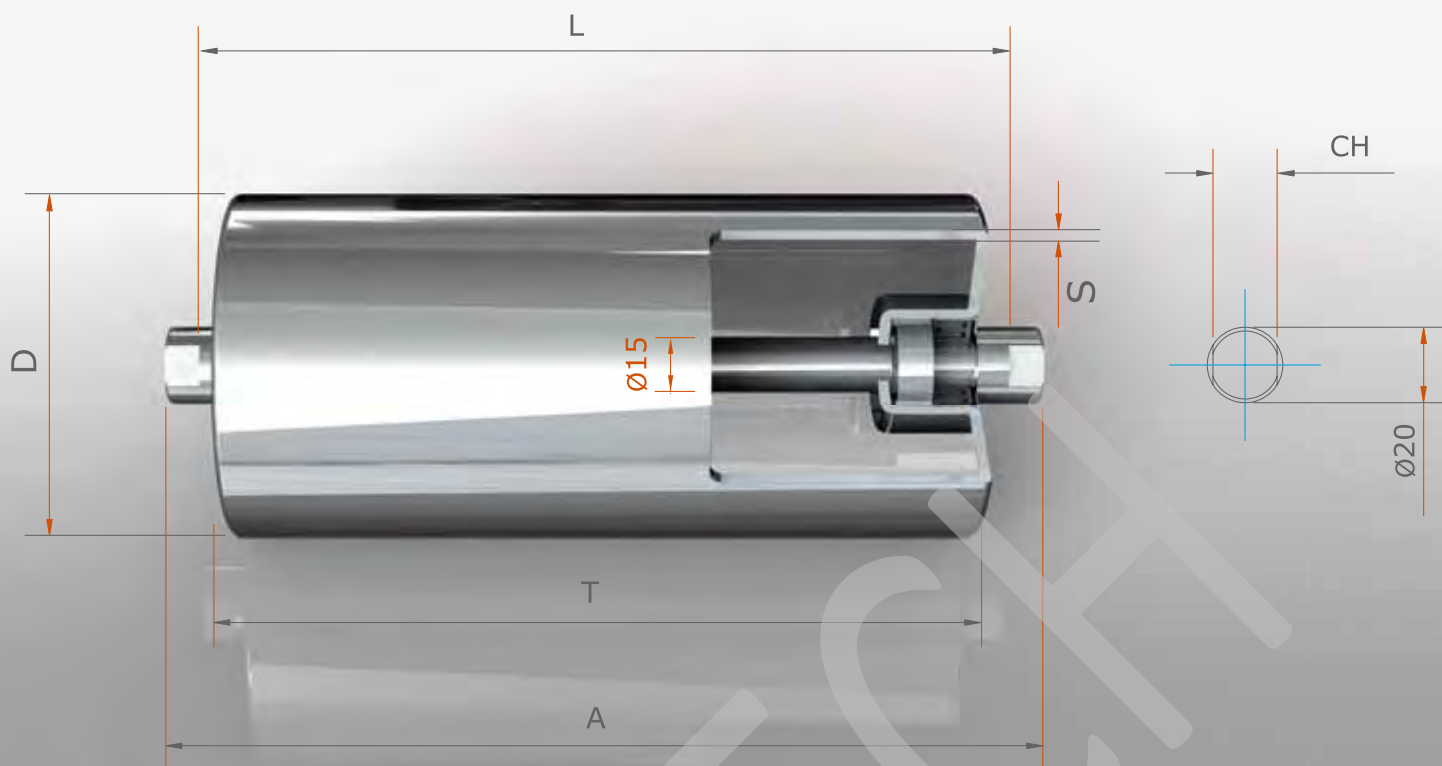
A TYPE	P300 SERIES	P400 SERIES	P500 SERIES	P600 SERIES
G	13	13	13	13
E	15	20	20	25
d	15	20	25	30
M	08/10	10/12	14	16



TYPE "C" COUPLING FORM

A turning and external threading operation is carried out on the roller shaft for fixing it to the structure.

TYPE "C"	P200 SERIES	P300 SERIES	P400 SERIES	P500 SERIES	P600 SERIES
G	35	35	45	48	55
C	18	18	18	22	22
E	17	17	27	28	35
M	14	14	20	24	27



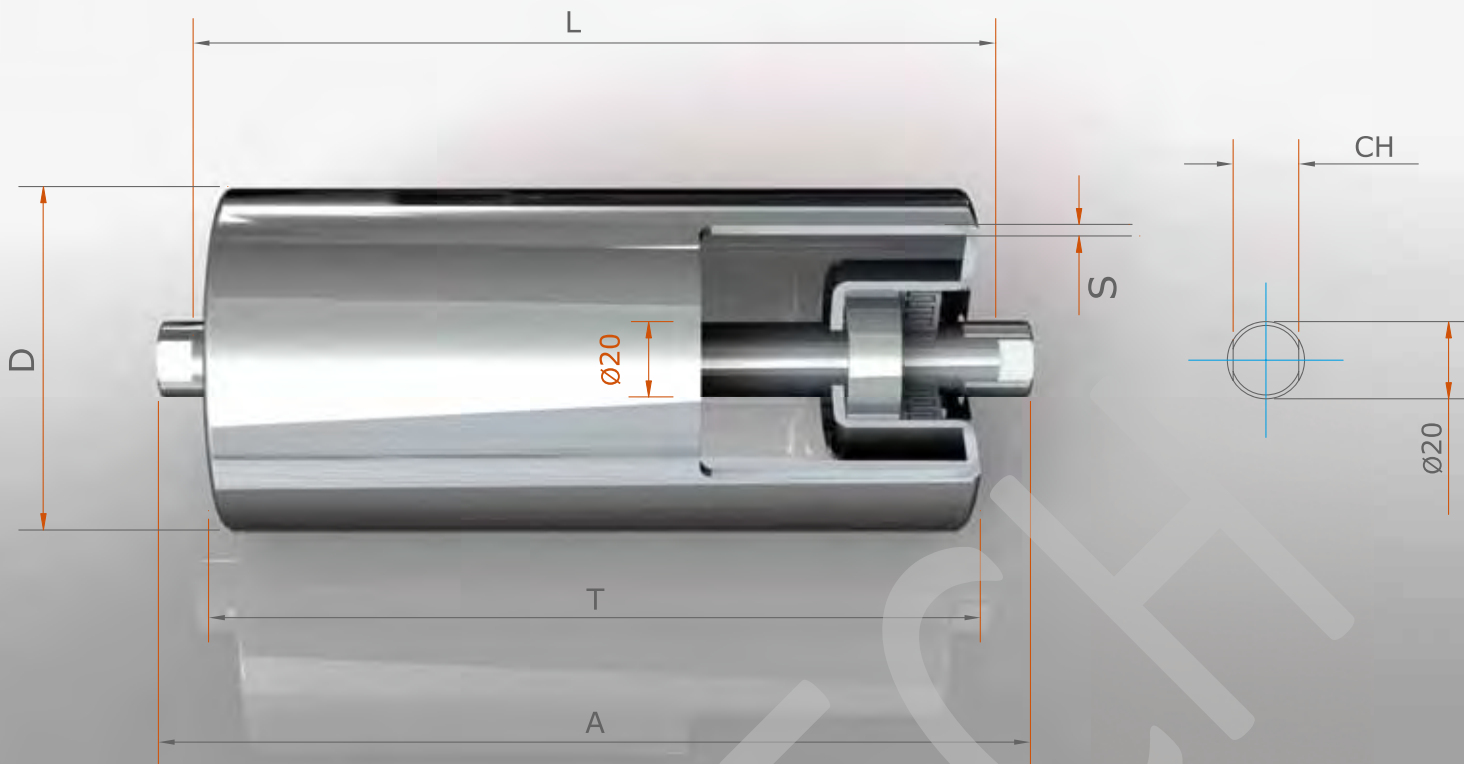
P300 IDLER ROLLERS								
CODE	D	S	L	T	A	CH	WEIGHT L =200	BY CM
P 3001	38	3	T+8	L-8	L+18	17	0,92	0,04
P 3003	60						1,38	0,06
P 3004	76						1,73	0,07
P 3006	89						2,05	0,09
P 3007	102						2,45	0,10

* The dimensions in the table refer to a type "A" form of coupling.

PRODUCT DESCRIPTION

Steel idler rollers protected by double-labyrinth seals mounted on 6202 precision ball-bearings with permanent lubrication from leading brands.

Tube with constant thickness and bearing heads joined by welding.



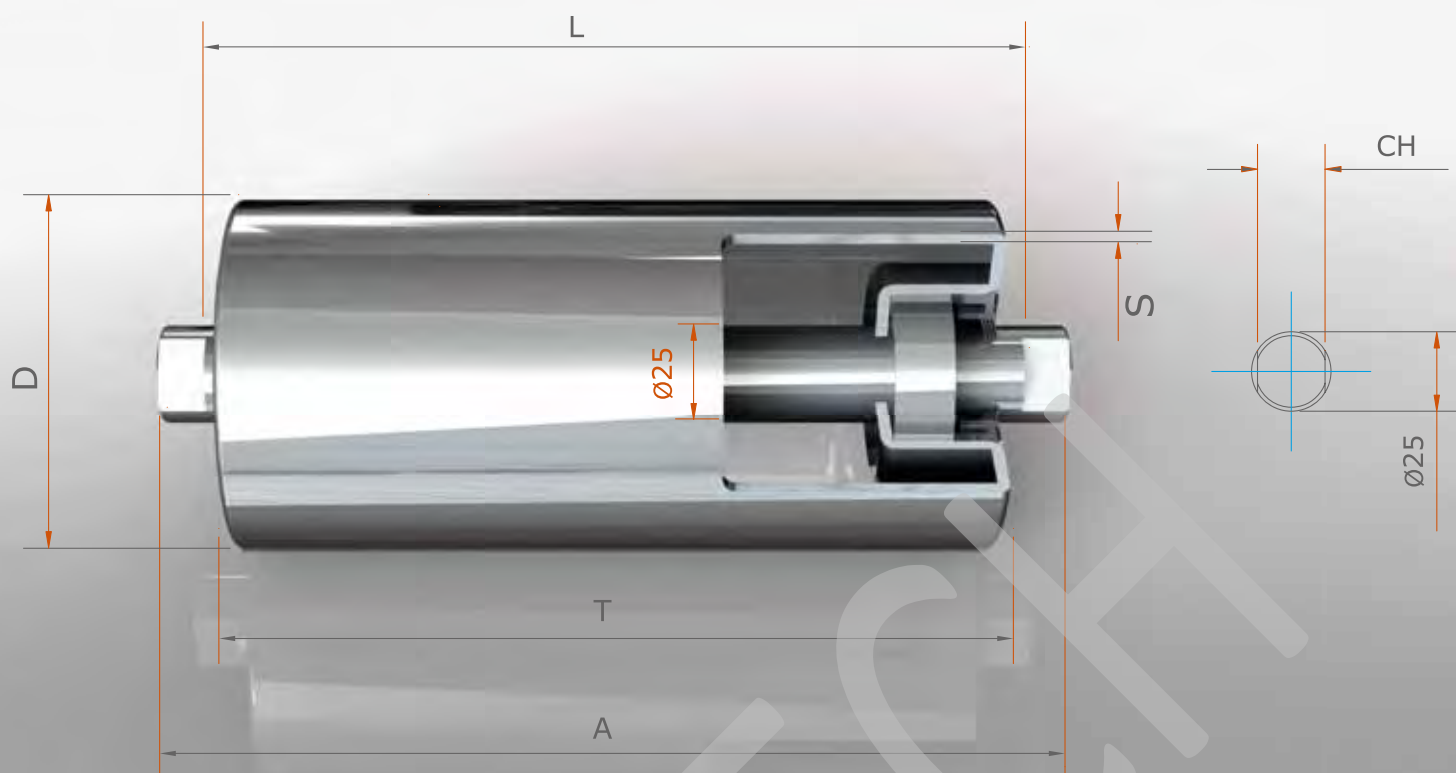
P400 IDLER ROLLERS

CODE	D	S	L	T	A	CH	WEIGHT L =200	BY CM
P4003	60	3	T+8	T-8	L+18	14/17	1,82	0,07
P4004	76						2,21	0,08
P4006	89						2,54	0,09
P4007	102	3,5					2,88	0,11
P4008	108						2,97	0,12
P4009	133						4	3,90

* The dimensions in the table refer to a type "A" form of coupling.

PRODUCT DESCRIPTION

Steel idler rollers protected by triple-labyrinth seals mounted on 6204 precision ball-bearings with permanent lubrication from leading brands.
 Tube with constant thickness and bearing heads joined by welding.



P500 IDLER ROLLERS

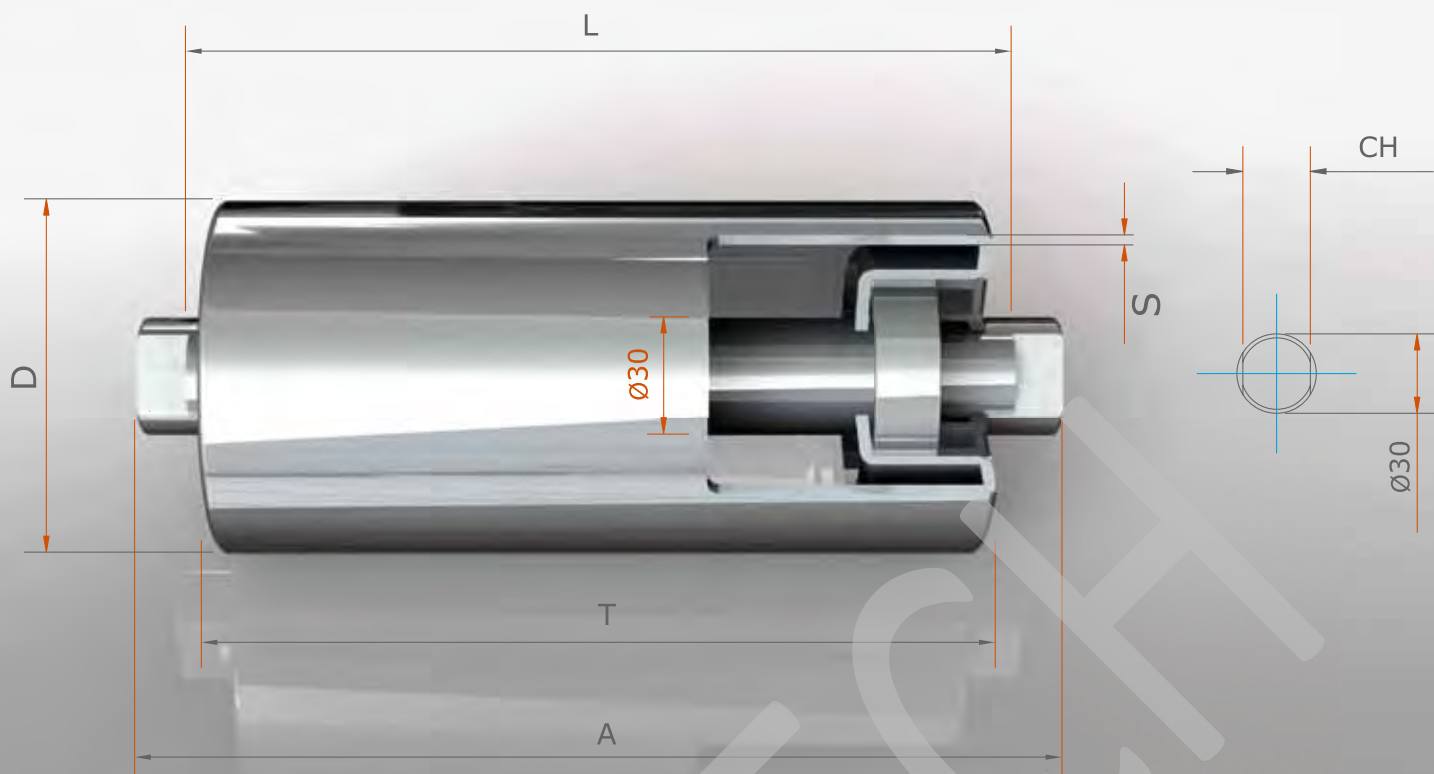
CODE	D	S	L	T	A	CH	WEIGHT L =200	BY CM
P5006	89	3	T+8	L-8	L+24	17/18	3,10	0,10
P5007	102						3,29	0,11
P5008	108	3,5					3,72	0,13
P5009	133	4					4,57	0,16
P5010	159						5,37	0,19

* The dimensions in the table refer to a type "A" form of coupling.

PRODUCT DESCRIPTION

Steel idler rollers with watertight protections and a 4-lip seal made of a specific material, mounted on 6205 precision ball-bearings with permanent lubrication from leading brands.

Tube with constant thickness and bearing heads joined by welding.



P600 IDLER ROLLERS

CODE	D	S	L	T	A	CH	WEIGHT L =200	BY CM
P6006	89	3	T+8	L-8	L+24	22	3,80	0,12
P6007	102						4,21	0,13
P6008	108	3,5					4,41	0,15
P6009	133	4					5,42	0,18
P6010	159						6,37	0,21

* The dimensions in the table refer to a type "A" form of coupling.

PRODUCT DESCRIPTION

Steel idler rollers with watertight protections and a 4-lip seal made of a specific material, mounted on 6206 precision ball-bearings with permanent lubrication from leading brands. Tube with constant thickness and bearing heads combined by welding.