



A to B, seamlessly.



Roller Catalogue 2017



It's how businesses get along

At Dyno we make the world of
business go round.

Up and down.

And side to side.

Our conveyors make moving meat,
veges, fruit, packages, gravel, and even luge sleds simple and
efficient.

We can customise to meet your needs
and all our designs are proprietary.

It all sounds new and high-tech, and it is.
But in reality we're an inter-generational
Kiwi company which has been designing and building conveyors
for over two decades now.

All that experience, and our knowledge
of the industries we work with,
is part of a total approach that includes supplying parts, and
maintenance by trained engineers.



DYNO Conveyors warranties equipment supplied free from defective materials and workmanship for a period of 5 years, subject to satisfactory care and maintenance and being used according to original specifications.

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DESIGN CONSIDERATIONS

Details Required:

- Type of product being conveyed
- Length of product
- Width of product
- Height of product
- Weight of product
- Speed required
- Environmental conditions

Rollers

A minimum of three rollers are required under the load at all times, products with uneven bases require more.

Ideal roller length is - load width + 50mm. This is a critical minimum with some types of plastic crates, but is of lesser importance with flat bottomed cartons.

Pallets usually flex under load causing only 1/3 of the rollers to carry the load, always allow for this.

Tapered rollers guarantee correct movement on bends.

Precision bearing rollers run smoothly at higher speeds for long periods but can have a greater resistance for manual movement.

Advantages of Plastic Rollers

- Light weight
- Noise dampening
- Resistance to corrosion
- Cleanliness

Temperature range of all our standard plastics is 5°C to 40°C, although they can be used down to -20°C with lowered impact resistance, or up to 60°C with reduced load.

Dynopipe is extra special high impact resistant PVC.

Shafts

Spring loaded shafts are the simplest design, giving quick and easy assembly and maintenance.

Male and female threaded shafts give higher load capacity and reduced vibration as they are secured direct to the conveyor frame. Female threads have the advantage of very simple assembly.

Spring loaded shafts are standard on most rollers.
Female threads are most common on driven rollers.
Large diameter rollers often have a fixed shaft.

Many other options are available to special order.

Remember – Gravity works for free

Roller Bearings

e.g. $\underbrace{50}_1 \underbrace{7}_2 \underbrace{SS}_3 - \underbrace{12H}_4 \underbrace{(Z14DF)}_5$

1. Tube Outside Diameter in nearest mm
2. Bearing type
 - 0 = Bush
 - 1 = Thermoplastic race, carbon steel balls
 - 2 = Thermoplastic race, stainless steel balls
 - 3 = Steel (unground)
 - 4 = Steel (unground), thermoplastic housing
 - 5 = Precision bearing, zinc plated steel housing and bush
 - 6 = Precision bearing, zinc plated steel housing, thermoplastic bush
 - 7 = Precision bearing, thermoplastic housing and bush. Press fit
 - 8 = Precision bearing, thermoplastic housing and bush. Swage fit
 - 9 = Fixed, for example = drums
3. Bearing details
 - A = Antistatic
 - B = Blind
 - C = Caged balls
 - G = Greased (extra)
 - HD = Heavy duty
 - M = Machined
 - SE = Sealed (extra)
 - SS = Stainless steel precision bearing
 - T = Includes locater for tapered elements
4. Shaft size + detail
 - H = Hexagonal across flats dimension
 - Q = Ø10mm with 8mm across flats
5. Extras
 - Z = Chain sprocket
 - ZB = Toothed belt sprocket
 - 14 = Number of teeth
 - S = Single
 - D = Double
 - F = Fixed
 - L = Loose

ROLLER BEARINGS

e.g. **50 7 SS – 12H (Z14DF) / D2.8 – SS – SP 447OBL / T**

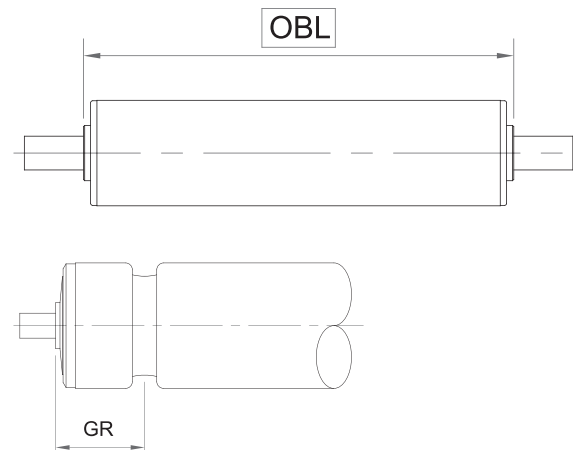
1
2
3
4
5
6
7
8
9
10

1. Tube Outside Diameter in nearest mm.
2. Bearing type, (as per Roller Bearing part number description).
3. Bearing details, (as per Roller Bearing part number description).
4. Shaft size + detail, (as per Roller Bearing part number description). Standard Shaft: 15mm out each end
5. Extras, (as per Roller Bearing part number description).
6. Tube material + (wall thickness when ordering non-standard wall thickness rollers)
 - AL = Aluminium.
 - D = Dynopipe.
 - G = Galvanised steel.
 - R = Rubber coated.
 - P = Plastic.
 - N = Stainless steel.
 - B = Black
7. Shaft material
 - AL = Aluminium.
 - MS = Mild steel.
 - SS = Stainless steel.
 - ZP = Mild steel zinc plated

8. Type of shaft
 - DL = Cross drilled.
 - F = Fixed.
 - FL = Flats.
 - FT = Female threads.
 - MT = Male threads.
 - SP = Sprung.
 - P = Loose

9. Length of roller
 - IF = Inside frame.
 - OBL = Over bearing length.

10. Extras
 - T = Taper.
 - GR = Grooves + spacing from over bearing, e.g.
 - SL = Non standard shaft length and details.



Measured from outside of bearing to centre of groove

Tube Outside Diameter	
Ø20	
Ø25	
Ø32	
Ø38	
Ø42	
Ø48	
Ø50	
Ø51	
Ø60	
Ø76	
Ø89	
Ø114	
Other	

Tube Material	
Plastic	
Dynopipe	
Galv. steel	
Stainless steel	

Tube Wall Thickness	
Standard	
Heavy duty	
Other	

Shaft Size	
Ø6	
Ø8	
8mm Hex	
Ø9.5	
Ø10	
10Q (Al)	
Ø11	
11mm Hex	
Ø12	
Ø12.7	
Ø15	
Ø16	
16mm Hex	
Ø17	
Ø19	
Ø20	
Ø25	
Other	

Shaft Material	
Mild steel	
Stainless steel	
Aluminium	
Other	

Cross Drilled	
One end	
Both ends	
Hole size	
Distance from end	

Flats	
One end	
Both ends	
Length of flats	mm
Across flats	mm

Threads	
Female threads	
Male threads	
One end	
Both ends	
Thread size	
Thread depth	mm

Bearing Type	
Bushed	
Plastic race, carbon steel balls	
Plastic race, S/S balls	
Steel (unground)	
Steel (precision)	
Plastic housing (precision)	
Stainless steel (precision)	

Shaft Details	
Loose	
Spring loaded	
Fixed	

Bearing Extras	
Antistatic	
Blind	
Greased	
Sealed	

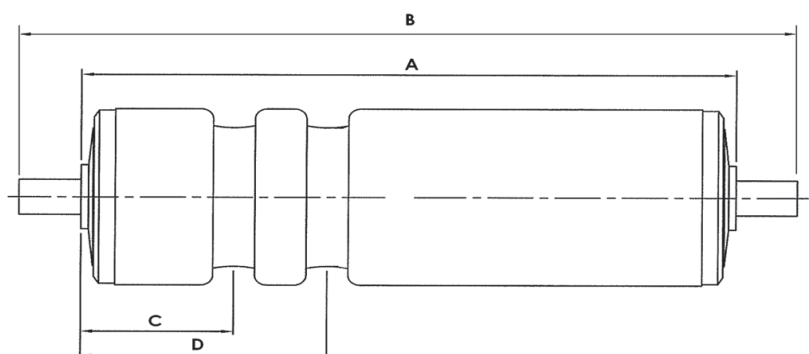
Extras	
Tapers	
Details	
Grooves	
Position No. 1 (C)	
Position No. 2 (D)	
Sprockets	
Single	
Double	
Fixed	
Loose	
Rubber coating	
Other	

Roller Length (mm)	
Inside frame (IF)	
Over bearing length (OBL) (A)	
Non standard shaft length (B)	

Standard Spring Loaded shaft lengths

- Ø6mm = OBL + 25mm
- Ø8 – Ø15mm = OBL + 30mm
- Ø16mm plus = OBL + 40mm

Quantity Required



ROLLER COATING

Rubber Coating

- Black or Grey.
- Not bonded to tube.
- Suits plastic and steel
- Other colours available on request

Tube Ø	O.D. of rubber
48	50.5
50	52.3
51	53
60	62

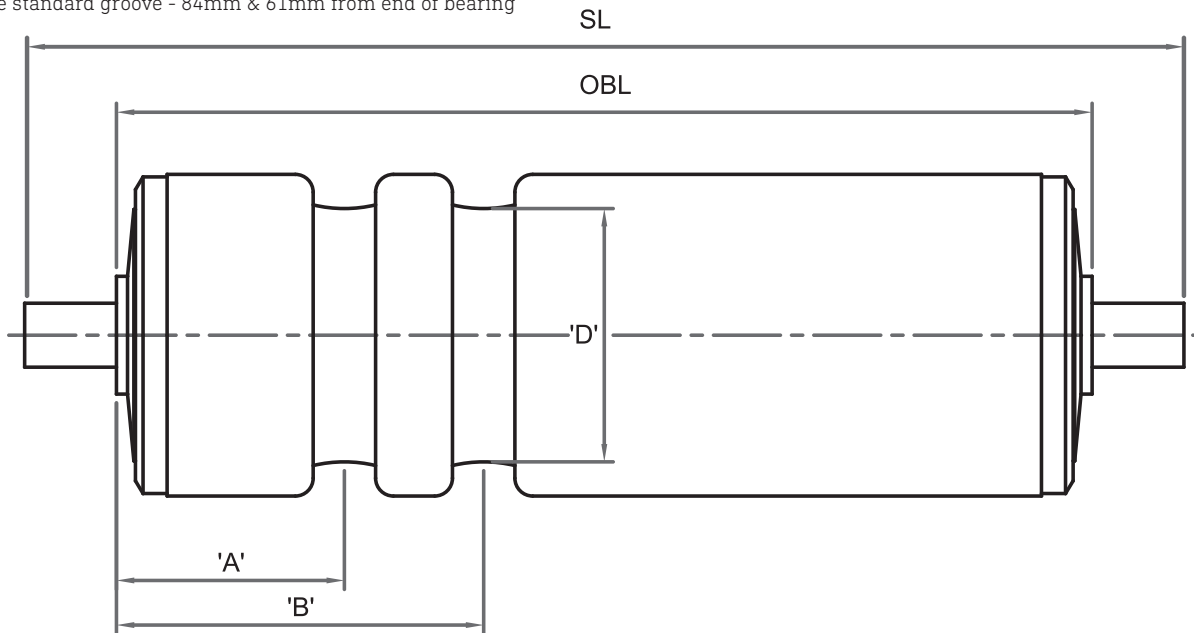
Plastic Coating

- Black Polyethylene.
- Bonded to tube.
- Temp. range; -40°C to +120°C.

Tube Ø	O.D. of plastic
48	53.5
50	55
51	56
60	64.5
76	82
89	94
114	118

Tube Diameter

- 38, 50, 51, 60, 79, 89mm
- Single standard groove - 84mm from end of bearing
- Double standard groove - 84mm & 61mm from end of bearing

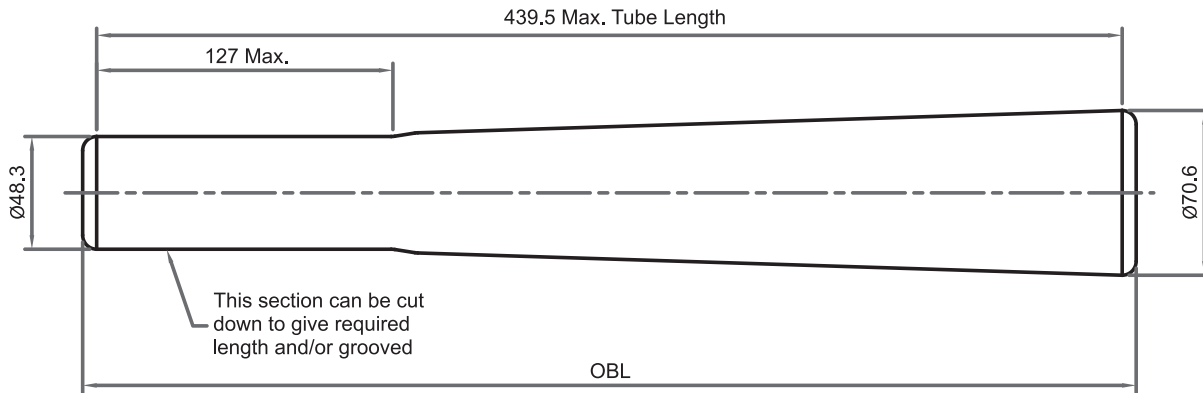


Roller Type	Tube Material	A (min.)	A - B (min.)	D (min.)
481 / 482	DNP	30	23	38
487	DNP	30	23	38
504	Galv. steel	25	22	40
505	Galv. steel	25	22	40
507	Galv. Steel, S/S or Plastic	36	22	40
512A	Galv. steel or S/S	30	24	41
518A	Galv. steel or S/S	30	24	41
605	Galv. steel	30	25	50
607	Galv. steel	38	25	50

CONVEYOR ROLLERS

DNPT4 Dynopipe Taper

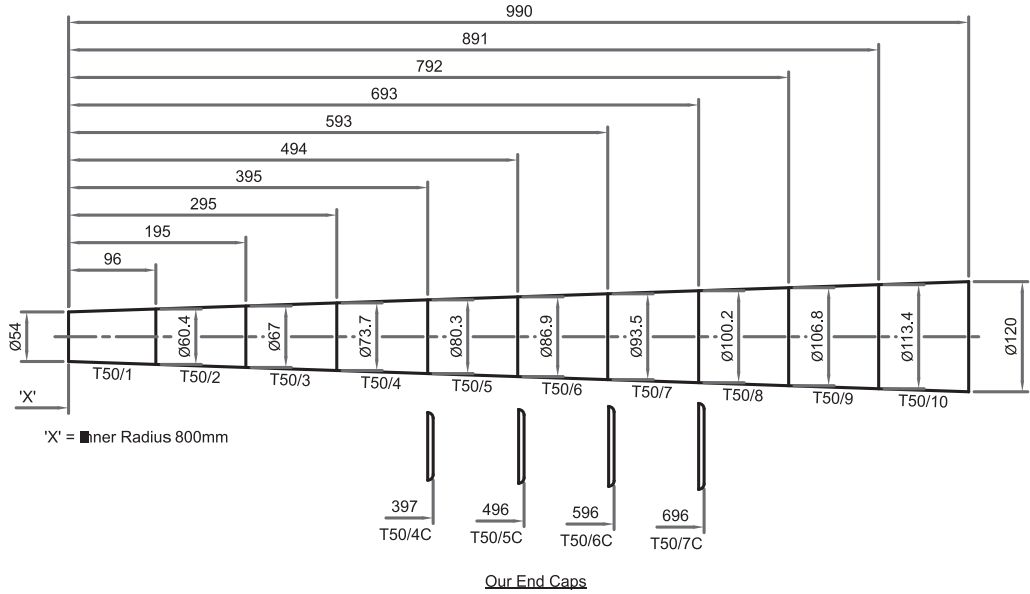
- White Dynopipe
- Made for inner radius = 815mm.



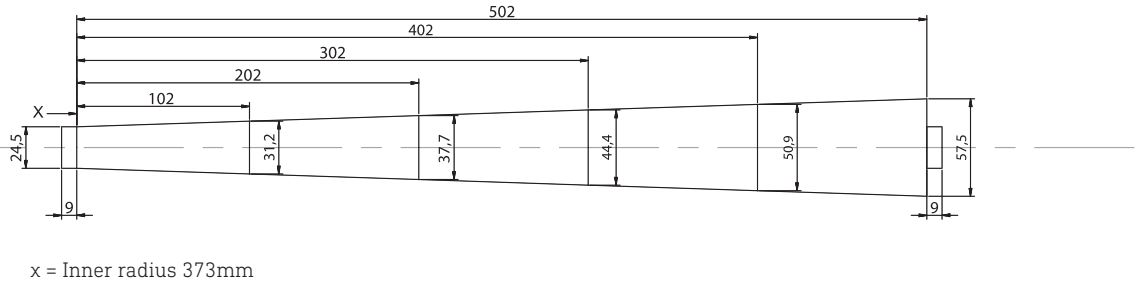
Bearing Type	Maximum Overbearing Length
480-5	453
480-6.5	453
480-8	453
480-9.5	453
480-10	453
480-11	456.5
480-12	456.5
480-12B	456.5
480-12.7	456.5
480HD	449
481/2	446.5
481/2 sealed	448
487	447.5
487 sealed	453.5

Tapered Elements For Ø50 Tube

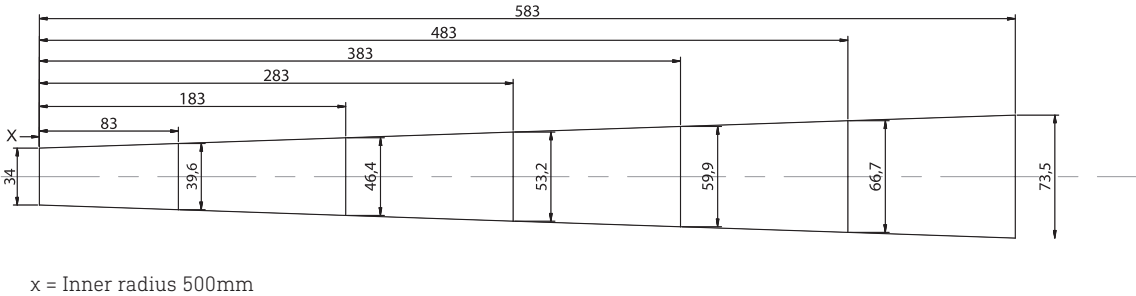
- Black polypropylene.
- Can be fitted to any Ø50mm tube roller.
- Recommended with 507T end cap.



Tapered Elements for 20mm Tube

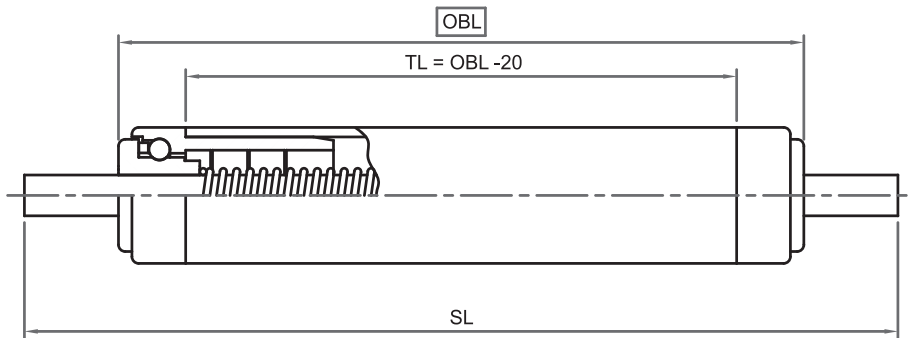


Tapered Elements for 30mm Tube



CONVEYOR ROLLERS

202 Tube Diameter - 20mm



Tube		Bearings		Shaft Materials	
Materials	20 x 1.6 - Aluminium	Materials	Thermoplastic race	Materials	Standard - S/S
	19 x 1.25 - Dynopipe		S/S balls		Option - Mild steel
	20 x 1.2 - S/S				Size
					Option - Ø8mm
				Type	Standard - SP
					Options - DL, F, L, MT

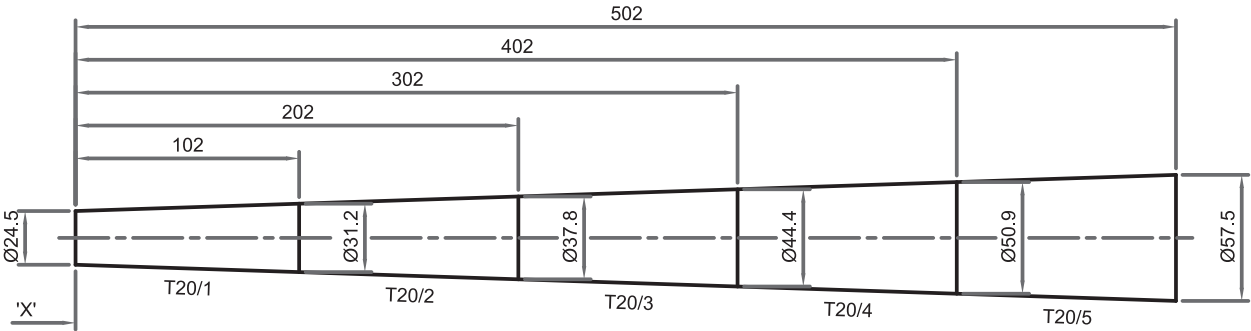
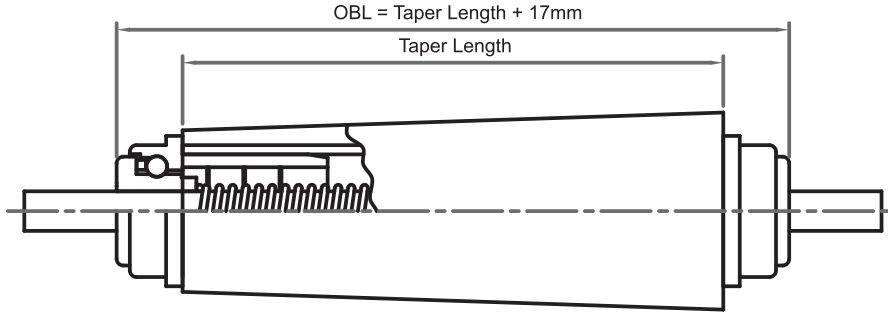
- Load Rating kg (minimum applies).

Roller Length (mm)	Tube Material			Shaft	
	Dynopipe	Aluminium	S/S	Ø6mm	Ø8mm
100	9	9	9	9	9
200	5	9	9	9	9
300	2	9	9	9	9
400	1	9	9	2	9
500		8	9	1	9
600		5	9		9
700		3	9		9
800		2	6		
900		1	4		
1000		1	3		
1100		1	2		
1200			1		

* Shaded sizes not recommended

- Max. speed 9m/min
- Max. static load 4.5kg
- For central point load, reduce load rating by 1/3
- Common uses;
 - Small packages
 - Bagged products - meat etc

202T Tube Diameter - 20mm



'X' = Inner Radius 373mm

Tapered Elements For Ø20 Tube

Tube		Bearings		Bearings		Shaft Materials	
Materials	20 x 1.6 - Aluminium	Materials	Black polypropylene	Materials	Thermoplastic race	Materials	Standard - S/S
	20 x 1.5 - Plastic				S/S balls		Option - Mild steel
						Size	Ø8mm
						Type	Standard - SP
							Options - DL, F, L, MT

- Load Rating kg (Minimum applies).

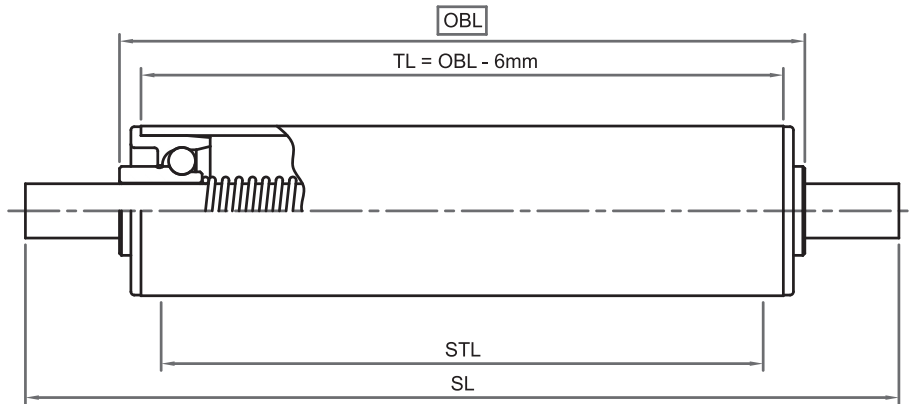
Roller Length (mm)	Tube Material		Shaft Ø8mm
	Dynopipe	Aluminium	
119	9	9	9
219	5	9	9
319	2	9	9
419	1	9	2
519		8	1

* Shaded sizes not recommended

- Max. speed 9m/min.
- Max. static load 4.5kg.
- For central point load, reduce load rating by 1/3.
- Common uses;
 - Small packages around corners.
 - Matches well with roller type 251 / 252.

CONVEYOR ROLLERS

251 / 252 Tube Diameter - 25, & 25.4mm



Straight Tube Length (STL) - S/S = OBL - 13mm
 - Galv. steel = OBL - 12mm

Tube		Bearings		Shaft Materials	
Materials	25.4 x 1.5 Galv. steel	Materials	Acetal race	Materials	Mild steel
	25.4 x 1.5 S/S		Carbon steel balls (251) - Black		Stainless steel
	25 x 1.4 Dynopipe 254 (white)		S/S balls (252) - Red	Size	Ø8mm
				Type	Standard - SP Options - DL, F, L, MT

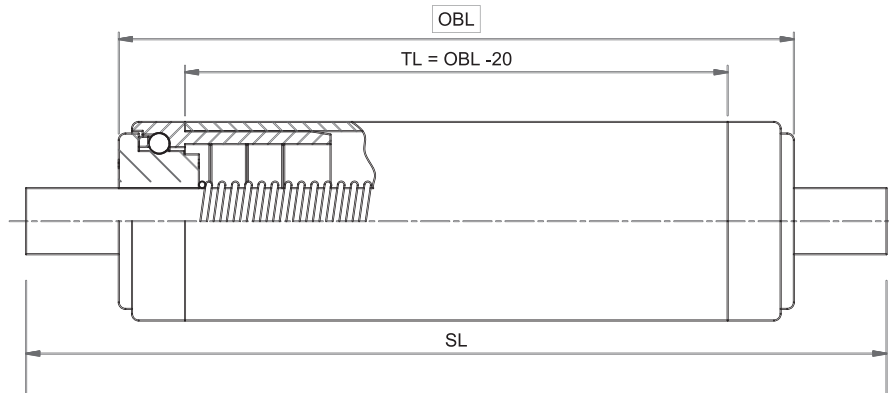
- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material		Shaft
	Dynopipe	Galv. or S/S	Ø8mm
100	15	15	15
200	8	15	15
300	4	15	15
400	1	15	15
500		15	15
600		12	15
700		10	15
800		8	
900		6	
1000		4	
1100		3	
1200		2	

* Shaded sizes not recommended

- Max. speed 15m/min.
- Max. static load 8kg.
- For central point load, reduce load rating by 1/3.
- Common uses;
 - Small boxes
 - Belt supports on light duty low profile belt conveyor.

302 Tube Diameter - 30mm



Tube		Bearings		Shaft Materials	
Materials	30 x 1.6 Aluminium	Materials	Thermoplastic race	Materials	Standard - S/S
	30 x 1.75 Dynopipe		S/S balls		Option - Mild steel
				Size	Standard - Ø6mm
					Option - Ø8mm, Ø10mm
				Type	Standard - SP
					Options - DL, F, L, MT

- Load Rating kg (Minimum applies).

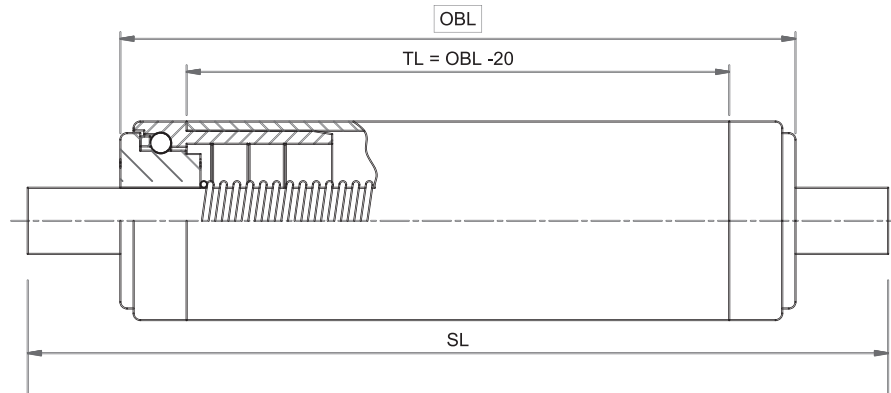
Roller Length (mm)	Tube Material		Shaft		
	Dynopipe	Aluminium	Ø6mm	Ø8mm	Ø10mm
100	14	14	30	30	30
200	14	14	30	30	30
300	8	14	30	30	30
400	5	12	25	30	30
500	2	6	20	30	30
600		3	15	30	30
700			10	30	30
800				25	30
900				20	30
1000				10	30
1100					30
1200					30

* Shaded sizes not recommended

- Max. speed 9m/min.
- Max. static load 10kg.
- For central point load, reduce load rating by 1/3.
- Common uses;
 - Small packages
 - Bagged products - meat etc.

CONVEYOR ROLLERS

322 Tube Diameter - 32mm



Tube		Bearings		Shaft Materials	
Materials	32 x 1.5 - Galv	Materials	Thermoplastic race	Materials	Standard - S/S
	32 x 1.5 - S/S		S/S balls		Option - Mild steel
				Size	Standard - Ø6mm
					Option - Ø8mm, Ø10mm
				Type	Standard - SP
					Options - DL, F, L, MT

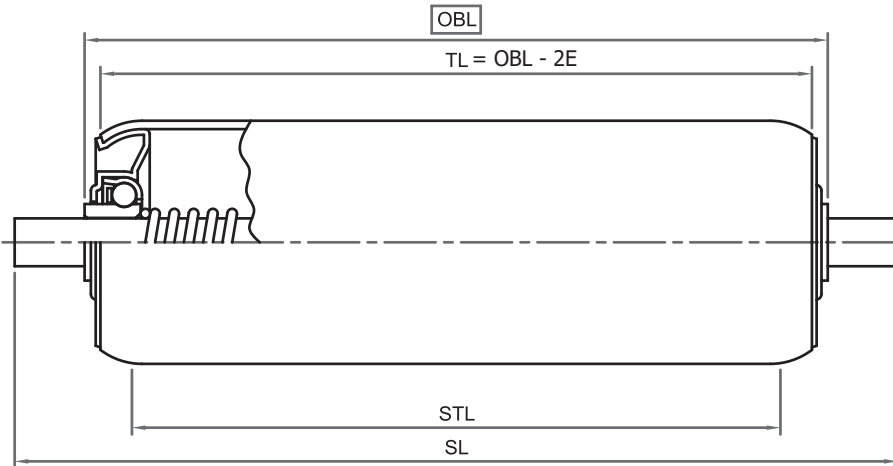
- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material		Shaft		
	S/S	Galv	Ø6mm	Ø8mm	Ø10mm
100	14	14	30	30	30
200	14	14	20	30	30
300	14	14	10	30	30
400	14	14	2	25	30
500	14	14	1	20	30
600	14	14		15	30
700	14	14		10	30
800	14	14			25
900	10	10			20
1000	8	8			10
1100	6	6			
1200	4	4			

* Shaded sizes not recommended

- Max. speed 9m/min.
- Max. static load 10kg.
- For central point load, reduce load rating by 1/3.
- Common uses;
 - Small packages
 - Bagged products - meat etc.

383C Tube Diameter - 38mm



Tube		Bearings		Shaft Materials	
Materials	38 x 1.5 Galv. steel	Materials	Steel ball bearing	Materials	Standard - Mild steel
			Caged balls		Option - Stainless steel
			Zinc plated		
				Size	Standard - 8mm
					Option - 10mm
				Type	Standard - SP
					Options - DL, F, L, MT

- Load Rating kg (Minimum applies).

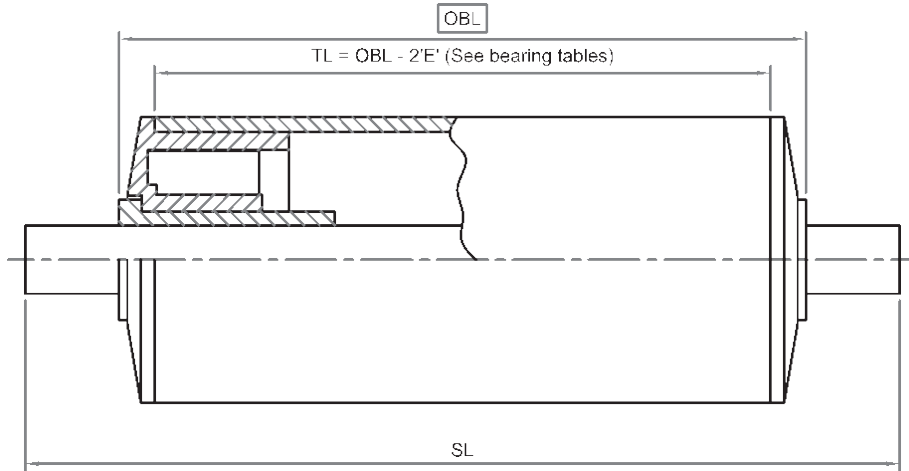
Roller Length (mm)	Tube Material Galv.	Shaft			
		Spring Loaded		Fixed	
		Ø8mm	Ø10mm	Ø8mm	Ø10mm
100	100	100	100	100	100
200	100	80	100	80	100
300	100	40	90	80	100
400	100	30	80	80	100
500	80	20	70	80	100
600	60	15	60	80	100
700	40	10	50	80	100
800	30	5	40	70	100
900	25		30	60	100
1000	18		20	50	100
1100	16		10	40	80
1200	10		5	30	50

* Shaded sizes not recommended

- Max. speed 30m/min.
- Max. static load 80kg.
- For central point load, reduce load rating by 1/3.
- Common uses;
 - Very quiet & free running gravity rollers.

CONVEYOR ROLLERS

420 Tube Diameter - 42mm



Tube		Bearings		Shaft Materials	
Materials	42 x 2.5 PVC (32 PN12)	Materials	Bushed type	Materials	Mild steel
			White ABS housing		Stainless steel
			White acetal bush up to 10mm		
			Black nylon bush over 10mm		
		Blind bushes – see bearing tables			
				Size	Standard – Ø8, Ø9.5mm
					Option – Ø6, Ø10, Ø11, Ø12mm
				Type	Standard – SP
					Options – DL, F, FT, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material Plastic	Shaft			
		Ø6mm	Ø8mm	Ø10mm	Ø12mm
100	30	30	30	30	30
200	30	20	30	30	30
300	20	10	30	30	30
400	12	2	25	30	30
500	6	1	20	30	30
600	3		15	30	30
700			10	30	30
800				25	30
900				20	30
1000				10	30
1100					30
1200					30

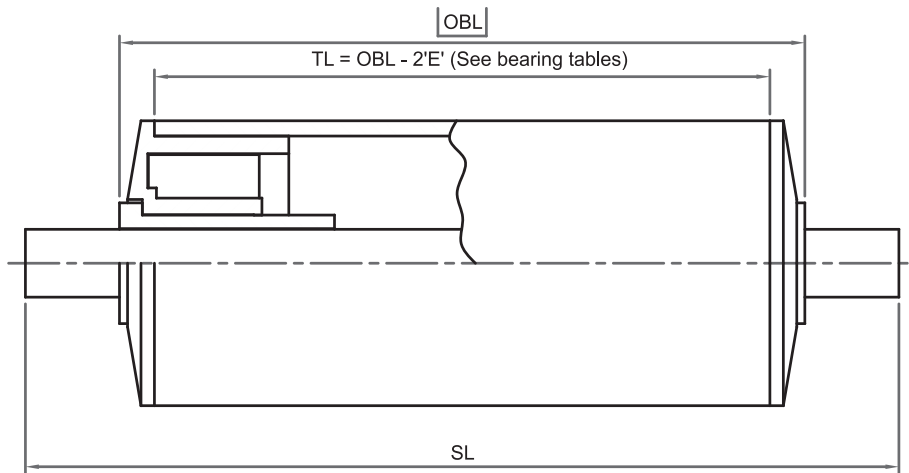
* Shaded sizes not recommended

- Rated speed 20m/min (speed can be increased with decreased load).
- Max. static load 30kg.
- For central point load, reduce load rating by 1/3.

Common uses;

- Fruit handling elevators.

480 Tube Diameter - 48.3mm



Tube		Bearings		Shaft Materials	
Materials	Standard - 48.3 x 2.8 White Dyno-pipe 483	Materials	Bushed type	Materials	Mild steel
			White ABS housing		Stainless steel
White acetal bush up to 10mm	Size		Standard - Ø8, Ø9.5mm		
Black nylon bush over 10mm			Option - Ø6, Ø10, Ø11, Ø12mm		
Blind bushes - see bearing tables			Type	Standard - SP	
	Options - DL, F, L, MT				

- Load Rating kg (Minimum applies).

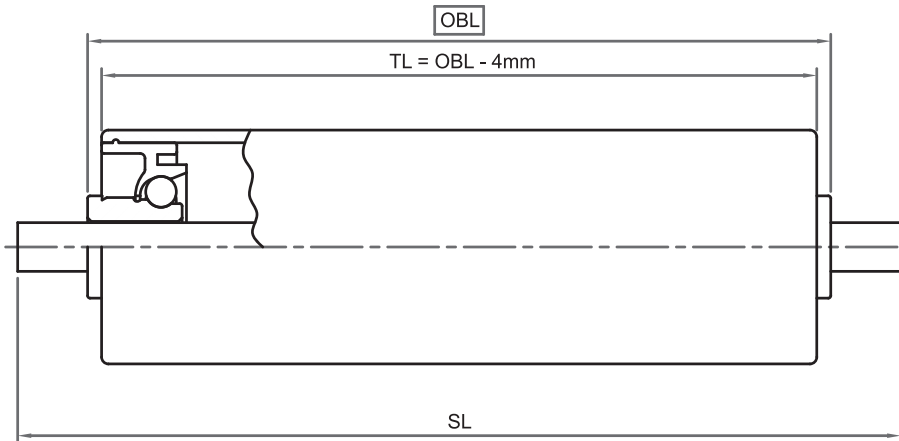
Roller Length (mm)	Tube Material Dynopipe	Shaft			
		Ø6mm	Ø8mm	Ø10mm	Ø12mm
100	30	30	30	30	30
200	30	20	30	30	30
300	30	10	30	30	30
400	28	2	25	30	30
500	16	1	20	30	30
600	12		15	30	30
700	5		10	30	30
800	3			25	30
900	2			20	30
1000	1			10	30
1100					30
1200					30

* Shaded sizes not recommended

- Rated speed 20m/min (speed can be increased with decreased load).
- Max. static load 30kg.
- For central point load, reduce load rating by 1/3.
- Common uses;
 - General purpose gravity rollers.
 - Belt supports.
 - Food factories.
 - Fruit handling elevators

CONVEYOR ROLLERS

481 / 482 Tube Diameter - 48mm



Tube		Bearings		Shaft Materials	
Materials	48.3 x 2.8 Dynopipe 483	Materials	(481) Black acetal race Carbon steel balls	Materials	Aluminium 10 x 8 Q
			(482) White acetal race S/S balls		Mild steel Ø10mm
			Options	Size	S/S Ø10mm
					Greased (G) recommend for powered
			Sealed (SE) (TL = OBL - 5.5)	Type	Ø12mm M/S or S/S
					Standard - SP
					Options - DL, F, L, MT, Ali Q - M/S or S/S -DL, F, FL, FT, L, MT, Ali Q

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material		Shaft	
	Dynopipe	Aluminium Q	Ø10mm	Ø12mm
100	30	30	30	30
200	30	30	30	30
300	30	25	30	30
400	28	20	30	30
500	16	16	30	30
600	12	10	30	30
700	5		30	30
800	3		25	30
900	2		20	30
1000	1		10	30
1100				30
1200				30

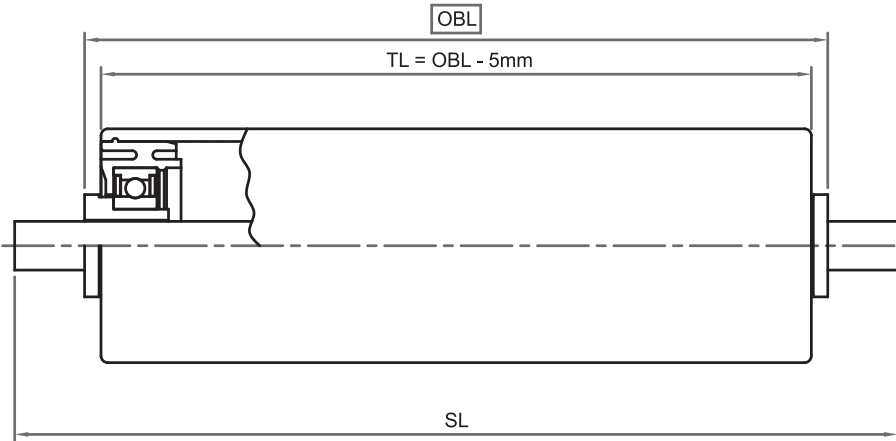
* Shaded sizes not recommended

- Max. speed 20m/min.
- Max. static load 18kg.

Common uses;

- Gravity rollers
- Light belt supports.
- Line shaft driven roller.
- General and food grade requirements.

487 Tube Diameter - 48.3mm



Tube		Bearings		Shaft Materials	
Materials	48.3 x 2.8 Dynopipe 483	Materials	Precision bearing	Materials	Aluminium 10 x 8 Q
			White acetal housing		Mild steel Ø10mm
					S/S Ø10mm
		Options	Stainless steel (SS)	Size	Ø11mm M/S or S/S
			Extra seal (SE) (TL = OBL - 11)		Ø12mm M/S or S/S
				Type	Standard - SP
					Options - Ali Q - DL, F, L - M/S or S/S -DL, F, FL, FT, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material Dynopipe	Shaft		
		Aluminium Q	Ø10mm	Ø12mm
100	40	30	40	40
200	30	30	40	40
300	30	25	40	40
400	28	20	40	40
500	16	16	40	40
600	12	10	40	40
700	5		30	40
800	3		25	40
900	2		20	40
1000	1		10	40
1100				40
1200				40

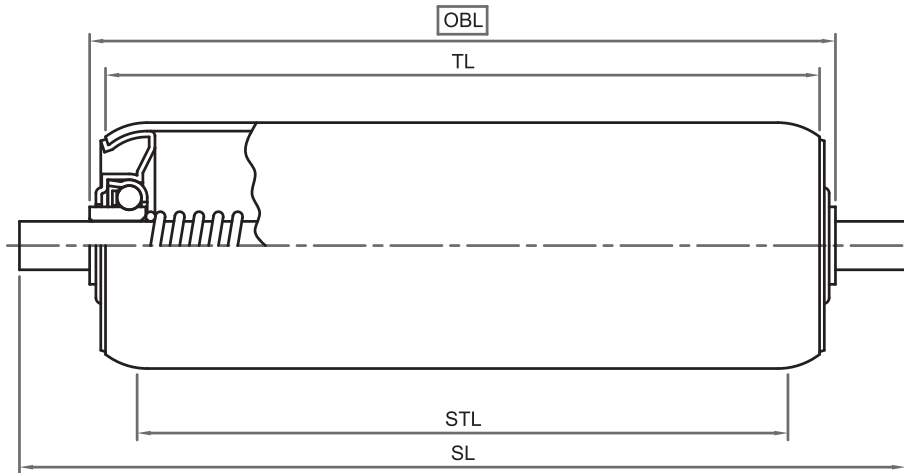
* Shaded sizes not recommended

- Max. speed 60m/min.
- Max. static load 40kg.

Common uses; High speed gravity rollers.
High speed powered rollers.
Clean areas.

CONVEYOR ROLLERS

503C Tube Diameter - 50, & 50.8mm



STL = OBL - 11 (Ø8 & Ø10)
 = OBL - 13 (11H)
 TL = OBL - 5 (Ø8 & Ø10)
 = OBL - 7.5 (11H)

Tube		Bearings		Shaft Materials	
Materials	50 x 1.5 Galv. steel 50 x 1.85 Galv. steel	Materials	Steel ball bearing	Materials	Standard - Mild steel
			Caged balls		Option - Stainless steel
			Zinc plated		
				Size	Standard - Ø10mm, 11Hex, 12mm Option - Ø8mm, Ø11mm
				Type	Standard - SP Options - DL, F, FT, L

- Load Rating kg (Minimum applies).

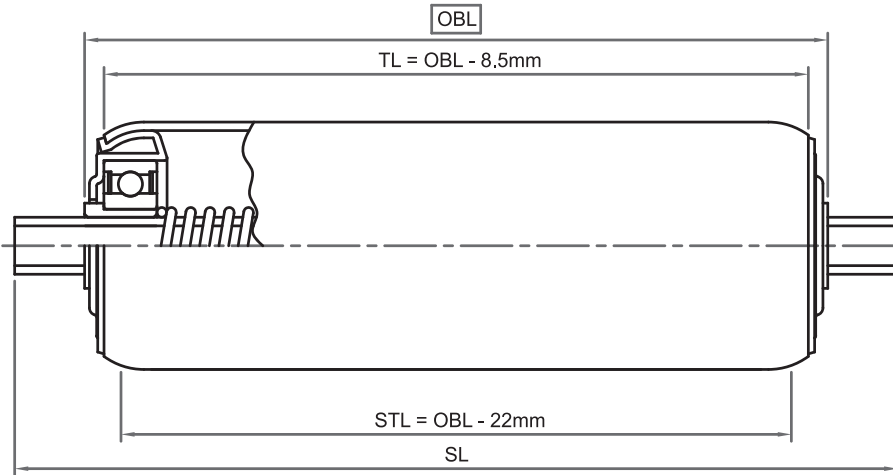
Roller Length (mm)	Tube Material Galv.	Shaft					
		Spring Loaded			Fixed		
		Ø8mm	Ø10mm	11H	Ø8mm	Ø10mm	11H
100	100	100	100	100	100	100	100
200	100	80	100	100	80	100	100
300	100	40	90	90	80	100	100
400	100	30	80	70	80	100	100
500	100	20	70	65	80	100	100
600	100	15	60	60	80	100	100
700	75	10	50	55	80	100	100
800	60	5	40	50	70	100	100
900	40		30	45	60	100	100
1000	30		20	40	50	100	100
1100	20		10	35	40	80	100
1200	10		5	30	30	50	100

* Shaded sizes not recommended

- Max. speed 40m/min.
- Max. static load 80kg.
- For central point load, reduce load rating by 1/3.

Common uses; Very quiet & free running gravity rollers.

505 Tube Diameter - 50, & 50.8mm



Tube		Bearings		Shaft Materials	
Materials	50 x 1.5 Galv. steel	Materials	Precision bearing	Materials	Standard - Mild steel
	50 x 1.85 Galv. steel		Steel housing & bush		Option - Stainless steel
			Zinc plated		
				Size	Standard - 11Hex
					Option - Ø8, Ø10, Ø11, & Ø12mm
				Type	Standard - SP
					Options - DL, F, FL, FT, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material Galv.	Shaft					
		Spring Loaded			Fixed		
		Ø8mm	Ø10mm	11H	Ø8mm	Ø10mm	11H
100	180	100	180	180	100	180	180
200	180	80	120	180	80	160	180
300	180	40	90	160	80	160	180
400	170	30	80	80	80	160	180
500	160	20	70	70	80	160	180
600	120	15	60	65	80	160	180
700	80	10	50	60	80	160	180
800	60	5	40	55	80	160	180
900	45		30	50	80	160	180
1000	35		20	45	80	160	180
1100	25		10	40	80	160	180
1200	20		5	35	80	160	180

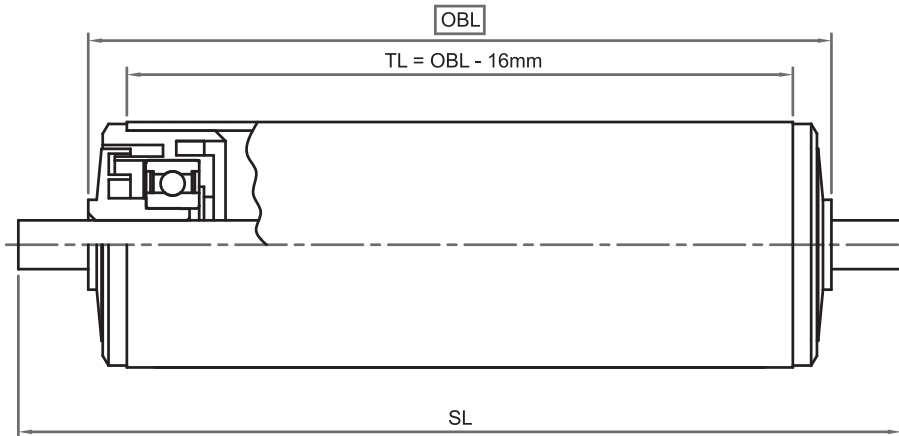
* Shaded sizes not recommended

- Max. speed 70m/min.
- Max. static load 150kg.
- For central point load, reduce load rating by 1/3.

Common uses; Gravity rollers where plastic housing is not applicable – eg. high or low temperature.

CONVEYOR ROLLERS

507 Tube Diameter - 50, & 50.8mm



Tube		Bearings		Shaft Materials	
Materials	50 x 1.5 Galv. steel	Materials	Precision bearing	Materials	Standard - Mild steel
	50.8 x 1.85 Galv steel		Black polypropylene housing and labyrinth seal		
	50 x 1.5 S/S		Antistatic except Ø8mm		Option - Stainless steel
	50.8 x 2 S/S		Option: S/S precision bearing (SS)		
	50.8 x 2 Aluminium				
	50 x 2.8 Dynopipe (white)				
				Size	Standard - 11Hex Option - Ø8, Ø10, Ø11, Ø12 & Ali D
				Type	Standard - SP Options - DL, F, FL, FT, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material				Shaft					
	Dynopipe	Aluminium	Galv.	S/S	Spring Loaded			Fixed		
					Ø8	Ø10	11H,Ø12	Ø8	Ø10	11H,Ø12
100	40	80	180	180	100	180	180	100	180	180
200	30	60	180	180	80	120	180	80	160	180
300	30	60	180	180	40	90	160	80	160	180
400	28	50	170	180	30	80	80	80	160	180
500	16	40	160	170	20	70	70	80	160	180
600	12	30	120	160	15	60	65	80	160	180
700	5	25	80	120	10	50	60	80	160	180
800	3	20	60	80	5	40	55	80	160	180
900	2	10	45	60		30	50	80	160	180
1000	1	6	35	50		20	45	80	160	180
1100		4	25	40		10	40	80	160	180
1200		2	20	30		5	35	80	160	180

* Shaded sizes not recommended

- Max. speed 70m/min.
- Max. static load 160kg.
- For central point load, reduce load rating by 1/3.

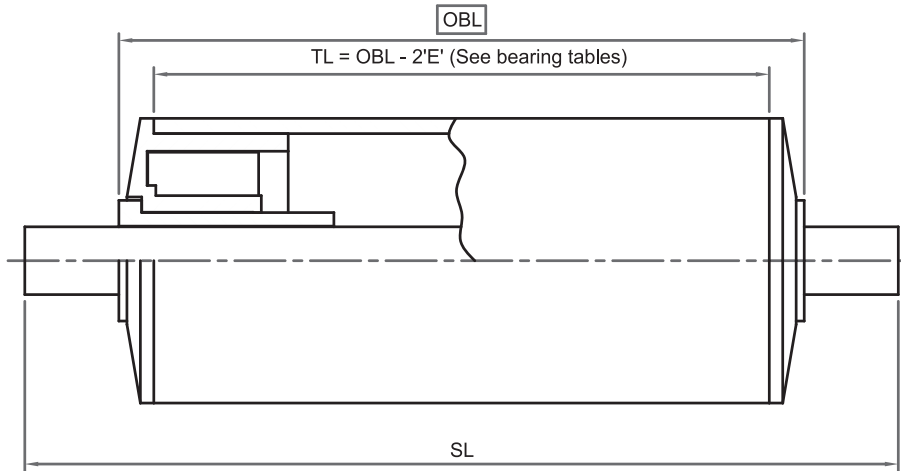
Common uses;

- Very popular high quality roller.
- Gravity rollers.
- Powered systems.

Options;

- Can be fitted with chain sprocket (reduced load rating).
- Blind bearing housings available.
- Headed bearing housing to retain taper

510 Tube Diameter - 50.8mm



Tube		Bearings		Shaft Materials	
Materials	50.8 x 1.5 Galv. steel	Materials	Bushed type	Materials	Mild steel
	50.8 x 1.5 S/S		White ABS housing		Stainless steel
	White acetal bush up to 10mm		Size	Standard - Ø8, Ø9.5mm	
	Black nylon bush over 10mm			Option - Ø6, Ø10, Ø11, Ø12mm	
		Blind bushes - see bearing tables	Type	Standard - SP	
				Options - DL, F, FT, L	

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material S/S or Galv.	Shaft			
		Ø6mm	Ø8mm	Ø10mm	Ø12mm
100	35	30	35	35	35
200	35	20	35	35	35
300	35	10	30	35	35
400	35	2	25	35	35
500	35	1	20	35	35
600	35		15	35	35
700	35		10	30	35
800	35			25	35
900	35			20	35
1000	35			10	35
1100	35				35
1200	35				35

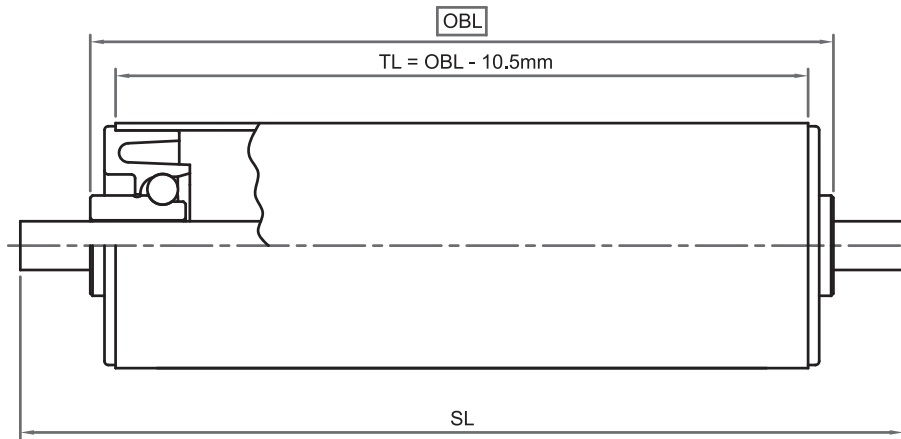
* Shaded sizes not recommended

- Rated speed 20m/min (speed can be increased with decreased load).
- Max. static load 30kg.
- For central point load, reduce load rating by 1/3.

Common uses; most economical 2" S/S roller.

CONVEYOR ROLLERS

511 / 512 / 512A Tube Diameter - 50.8mm



Tube		Bearings		Shaft Materials	
Materials	50.8 x 1.5 Galv. steel	Materials	(511) Black acetal race Carbon steel balls	Materials	Aluminium 10 x 8 Q
	50.8 x 1.5 S/S		(512) Red acetal race S/S balls		Mild steel Ø10mm
	50.8 x 1.85 Aluminium		(512A) Black Anti-Static acetal race S/S balls		S/S Ø10mm
	Option: Greased (G)		Size	Ø11mm M/S or S/S Ø12mm M/S or S/S	
		Type	Standard - SP Options - Aluminium Q - DL, F, L - M/S or S/S -DL, F, FL, FT, L, MT		

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material		Shaft		
	Aluminium	S/S or Galv.	Aluminium Q	Ø10mm	Ø12mm
100	40	40	30	40	40
200	40	40	30	40	40
300	40	40	25	40	40
400	40	40	20	40	40
500	40	40	16	40	40
600	30	40	10	35	40
700	25	40	5	30	40
800	20	40	2	25	40
900	10	35	1	20	40
1000	6	25		10	40
1100	4	20			40
1200	2	15			40

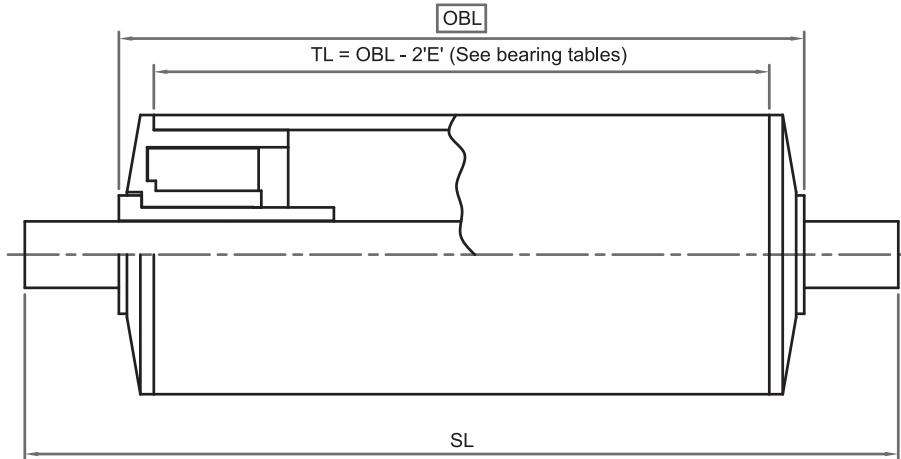
* Shaded sizes not recommended

- Max. speed 20m/min.
- Max. static load 25kg.

Common uses;

- Gravity rollers.
- Light belt supports - greasing recommended
- Line shaft driven roller, especially if S/S required.
- General and food grade requirements

600 Tube Diameter - 60.3mm



Tube		Bearings		Shaft Materials	
Materials	60.3 x 2.8 PVC (50PN9)	Materials	Bushed type White ABS housing White acetal bush up to 10mm Black nylon bush over 10mm Blind bushes – see bearing tables	Materials	Mild steel Stainless steel
				Size	Standard – Ø8, Ø9.5mm Option – Ø6, Ø10, Ø11, Ø12mm
				Type	Standard – SP Options – DL, F, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material Plastic	Shaft			
		Ø6mm	Ø8mm	Ø10mm	Ø12mm
100	35	30	35	35	35
200	35	20	35	35	35
300	25	10	30	35	35
400	20	2	25	35	35
500	18	1	20	35	35
600	12		15	35	35
700	10		10	30	35
800	7			25	35
900	5			20	35
1000	2			10	35
1100					35
1200					35

* Shaded sizes not recommended

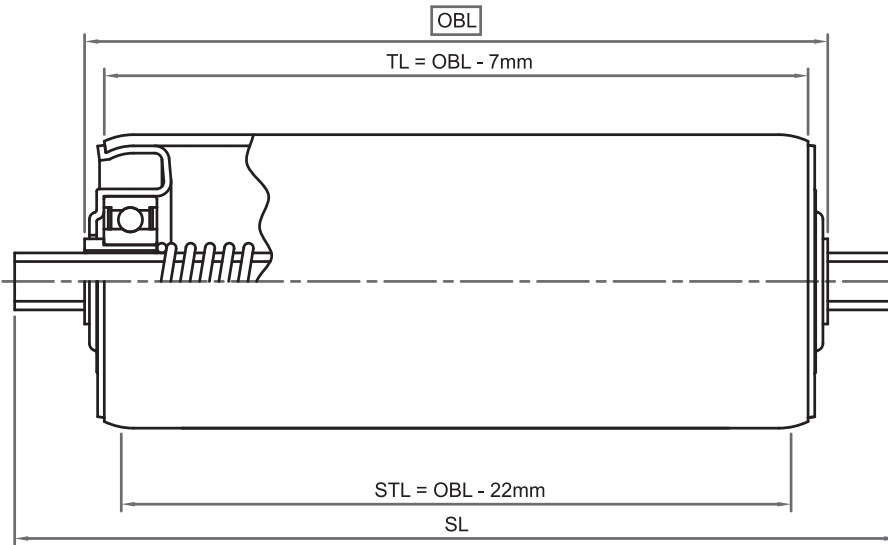
- Rated speed 20m/min (speed can be increased with decreased load).
- Max. static load 30kg.
- For central point load, reduce load rating by 1/3.
- Note; extra heavy duty, 19mm shaft available (special order).

Common uses;

- General purpose gravity rollers.
- Belt supports.
- Food factories.
- Fruit elevators.

CONVEYOR ROLLERS

605 Tube Diameter - 60.3mm



Tube		Bearings		Shaft Materials	
Materials	Standard; 60.3 x 2.3 Galv. steel	Materials	Precision bearing	Materials	Standard - Mild steel
	Option; 60.3 x 3.6 Galv. steel		Steel housing & bush		Option - Stainless steel
			Zinc plated		
				Size	Standard - 11Hex
					Option - Ø8, Ø10, Ø11, & Ø12mm
				Type	Standard - SP
					Options - DL, F, FL, FT, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material Galv.	Shaft				
		Spring Loaded			Fixed	
		Ø8mm	Ø10mm	11H	Ø10mm	11H
100	180	100	180	180	180	180
200	180	80	120	180	160	180
300	180	40	90	160	160	180
400	180	30	80	80	160	180
500	180	20	70	70	160	180
600	180	15	60	65	160	180
700	160	10	50	60	160	180
800	140	5	40	55	160	180
900	100		30	50	160	180
1000	80		20	45	160	180
1100	60		10	40	160	180
1200	50		5	35	160	180

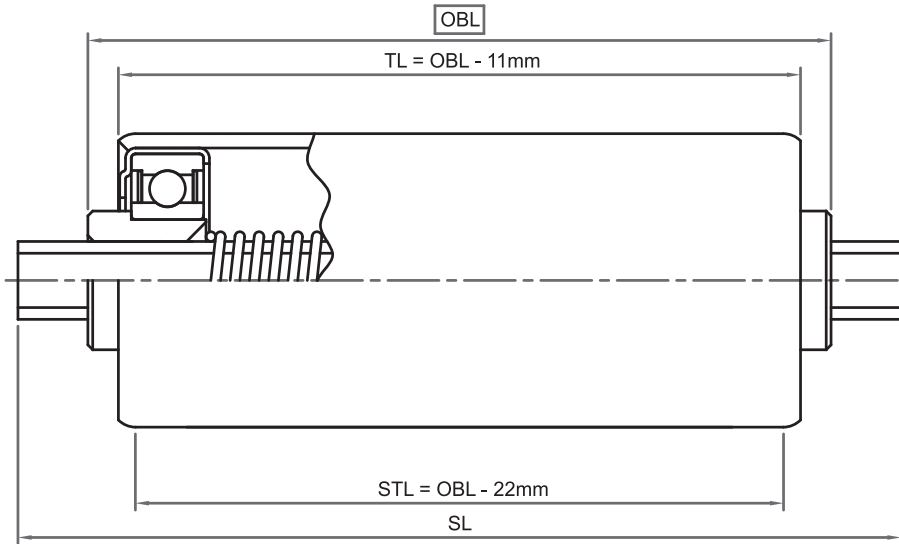
* Shaded sizes not recommended

- Max. speed 70m/min.
- Max. static load 150kg.
- For central point load, reduce load rating by 1/3.

Common uses;

- Gravity rollers where plastic housing is not applicable – eg. high or low temperature

605HD Tube Diameter - 60.3mm



Tube		Bearings		Shaft Materials	
Materials	60.3 x 3.6 Galv. steel	Materials	Precision bearing	Materials	Standard - Mild steel
	60.3 x 3.9 Stainless steel		Steel housing and bush		Option - Stainless steel
			Zinc plated	Size	Standard - 16H
					Option - Ø16mm, Ø19mm
				Type	Standard - SP
					Options - DL, F, FL, FT, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material S/S or Galv.	Shaft			
		Spring Loaded		Fixed	
		16H	Ø19mm	16H	Ø19mm
100	400	400	400	400	400
200	400	400	400	400	400
300	400	400	400	400	400
400	400	400	400	400	400
600	300	280	400	400	400
800	250	200	400	400	400
1000	200	160	320	400	400
1200	160	140	260	400	400
1400	120	120	200	400	400
1600	80	100	140	400	400
1800	55	70	120	400	400
2000	40	50	100	400	400

* Shaded sizes not recommended

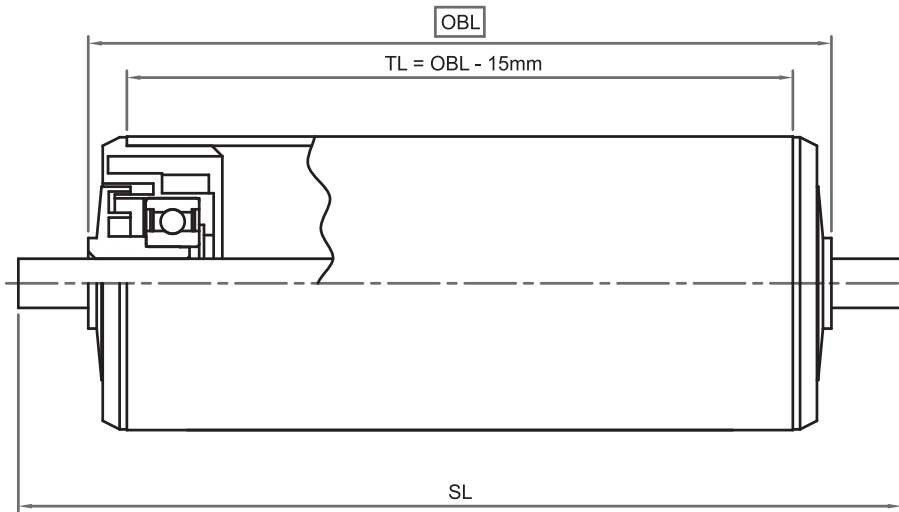
- Rated speed 70m/min (speed can be increased with decreased load).
- Max. static load 380kg.
- For central point load, reduce load rating by 1/3.

Common uses;

- Heavy in feeds to machines.

CONVEYOR ROLLERS

607 Tube Diameter - 60.3mm



Tube		Bearings		Shaft Materials	
Materials	Standard - 60.3 x 2.3 Galv. steel	Materials	Precision bearing	Materials	Standard - Mild steel
	Standard - 60.3 x 2.3 S/S (50 NB sch. 10)		Black polypropylene housing and labyrinth seal		Option - Stainless steel
	Option - 60.3 x 3.6 Galv. steel		Antistatic except Ø8mm		
	Option - S/S precision bearing (SS)				
				Size	Standard - 11Hex Option - Ø8, Ø10, Ø11, Ø12
				Type	Standard - SP Options - DL, F, FL, FT, L, MT

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material		Shaft					
	Galv.	S/S	Spring Loaded			Fixed		
			Ø8mm	Ø10mm	11H,Ø12	Ø8mm	Ø10mm	11H,Ø12
100	180	180	100	180	180	100	180	180
200	180	180	80	120	180	80	160	180
300	180	180	40	90	160	80	160	180
400	180	180	30	80	80	80	160	180
500	180	180	20	70	70	80	160	180
600	180	180	15	60	65	80	160	180
700	160	180	10	50	60	80	160	180
800	140	160	5	40	55	80	160	180
900	100	140		30	50	80	160	180
1000	80	100		20	45	80	160	180
1100	60	80		10	40	80	160	180
1200	50	60		5	35	80	160	180

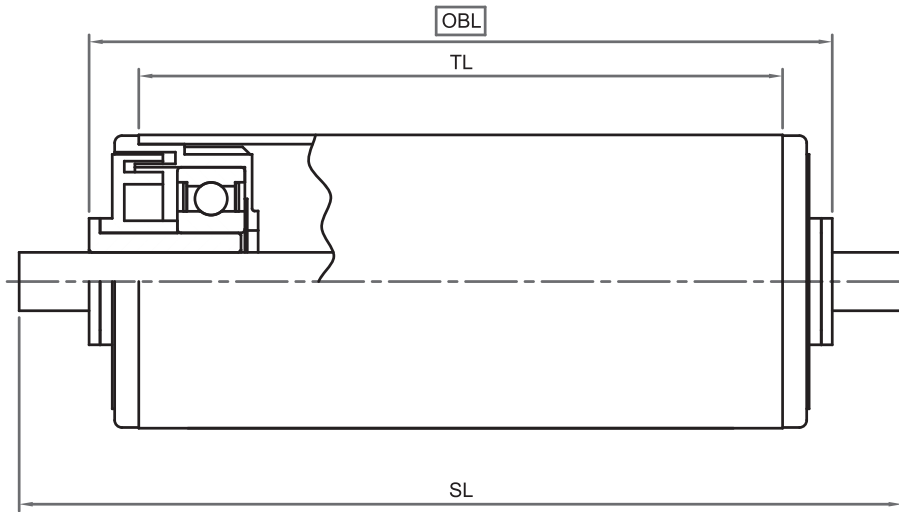
* Shaded sizes not recommended

- Max. speed 70m/min.
- Max. static load 160kg.
- For central point load, reduce load rating by 1/3.
- Options; Can be fitted with chain sprockets (reduced load rating).

Common uses;

- More robust roller than 507 especially for longer rollers

607HD Tube Diameter - 60.3mm



TL = OBL - 20mm (Ø12 & Ø16mm)
 = OBL - 15.5mm (Ø20mm)

Tube		Bearings		Shaft Materials	
Materials	Standard - 60.3 x 2.3 Galv. steel	Materials	Precision bearing	Materials	Standard - Mild steel
	Standard - 60.3 x 2.3 S/S (50 NB sch. 10)		Black nylon housing		Option - Stainless steel
	Option - 60.3 x 3.6 Galv. steel		Black labyrinth and reducer bush		
			Option - S/S precision bearing (SS)	Size	Ø12, Ø16, & Ø20mm
				Type	Standard - Ø12, Ø16 - SP
					Standard - Ø20 - L
					Options - DL, F, FL, FT, L, MT

- Load Rating kg (Minimum applies).

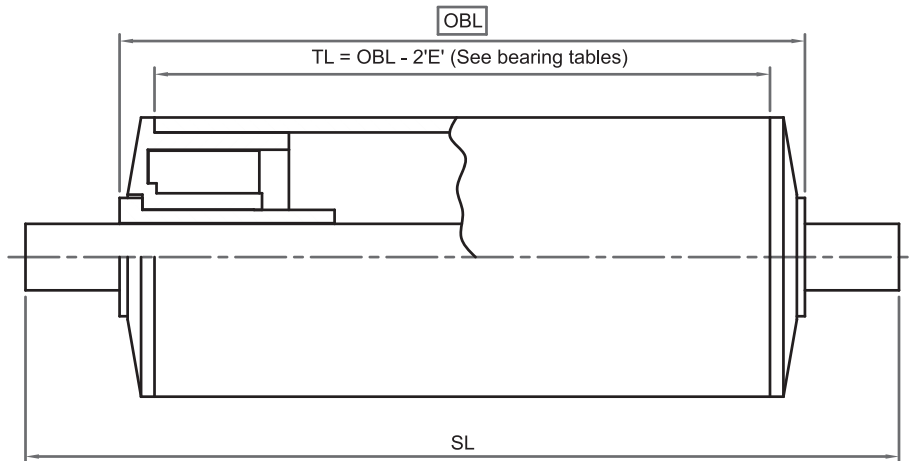
Roller Length (mm)	Tube Material Galv. or S/S	Shaft					
		Spring Loaded			Fixed		
		Ø12mm	Ø16mm	Ø20mm	Ø12mm	Ø16mm	Ø20mm
100	280	250	350	350	300	350	350
200	280	200	350	350	280	350	350
300	280	160	350	350	250	350	350
400	280	120	350	350	250	350	350
600	240	80	280	350	250	350	350
800	140	50	200	350	250	350	350
1000	100	30	160	320	250	350	350
1200	80	20	140	260	250	350	350
1400	60		120	200	250	350	350
1600	40		100	140	250	350	350
1800	20		70	120	250	350	350
2000			50	100	250	350	350

* Shaded sizes not recommended

- Rated speed 70m/min.
- Max. static load 250kg.
- For central point load, reduce load rating by 1/3.
- Option; For heavy duty, all S/S & plastic roller.

CONVEYOR ROLLERS

750 Tube Diameter - 75mm



Tube		Bearings		Shaft Materials	
Materials	75 x 3 PVC (65PN9)	Materials	Bushed type	Materials	Mild steel
			White ABS housing		Stainless steel
			White acetal bush up to 10mm		
			Black nylon bush over 10mm		
				Size	Standard - Ø8, Ø9.5mm Option - Ø6, Ø10, Ø11, Ø12mm
				Type	Standard - SP Options - DL, F, FT, L

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material	Shaft			
		Ø6mm	Ø8mm	Ø10mm	Ø12mm
100	Plastic	30	40	40	40
200	40	20	35	40	40
300	40	10	30	40	40
400	40	2	25	40	40
500	35	1	20	40	40
600	30		15	35	40
700	22		10	30	40
800	15			25	40
900	10			20	40
1000	5			10	40
1100	3				40
1200	2				40

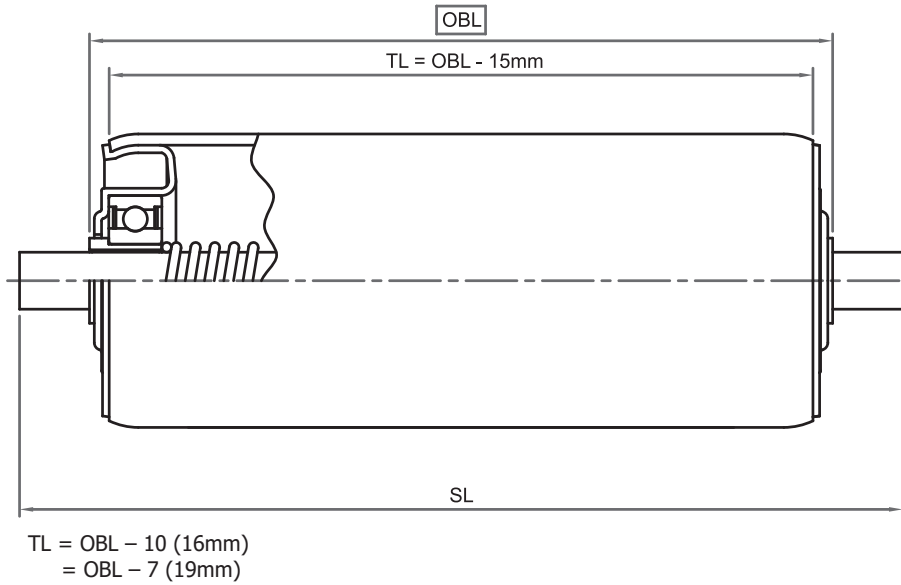
* Shaded sizes not recommended

- Rated speed 20m/min (speed can be increased with decreased load).
- Max. static load 35kg.
- For central point load, reduce load rating by 1/3.

Common uses;

- Vegetable handling conveyors (pumpkins, squash)

755 Tube Diameter - 76mm



Tube		Bearings		Shaft Materials	
Materials	76 x 3.2 Galv. Steel (65 NB light)	Materials	Precision bearing	Materials	Standard - Mild steel
			Steel housing and bush		Option - Stainless steel
			Zinc plated	Size	Standard - Ø16
					Option - Ø19mm
				Type	Standard - SP
					Options - DL, F, FL, FT, L, MT

• Load Rating kg (Minimum applies).

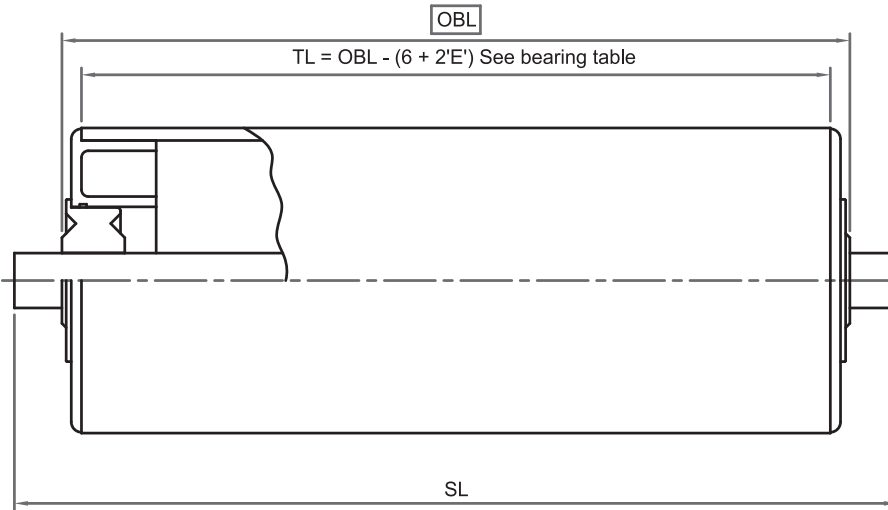
Roller Length (mm)	Tube Material Galv.	Shaft			
		Spring Loaded		Fixed	
		Ø16mm	Ø19mm	Ø16mm	Ø19mm
100	350	350	350	350	350
200	350	350	350	350	350
300	350	350	350	350	350
400	350	350	350	350	350
500	350	300	350	350	350
600	350	260	350	350	350
700	350	210	350	350	350
800	280	180	350	350	350
1000	110	140	320	350	350
1200	80	110	260	350	350
1400	70	100	240	350	350
1600	50	80	200	350	350

* Shaded sizes not recommended

- Max. speed 100m/min.
- Max. static load 300kg.
- For central point load, reduce load rating by 1/3

CONVEYOR ROLLERS

890 Tube Diameter - 89mm



Tube		Bearings		Shaft Materials	
Materials	89 x 3.5 PVC (80 PN9)	Materials	White ABS reducer (890) with 480HD black nylon bush, or Ball bearing with acetal race Black race / carbon steel balls (481) White race / SS balls (482) 487 white race precision bearing Option: 487 with S/S precision bearing	Materials	See: 480 / 481 / 482 / 487

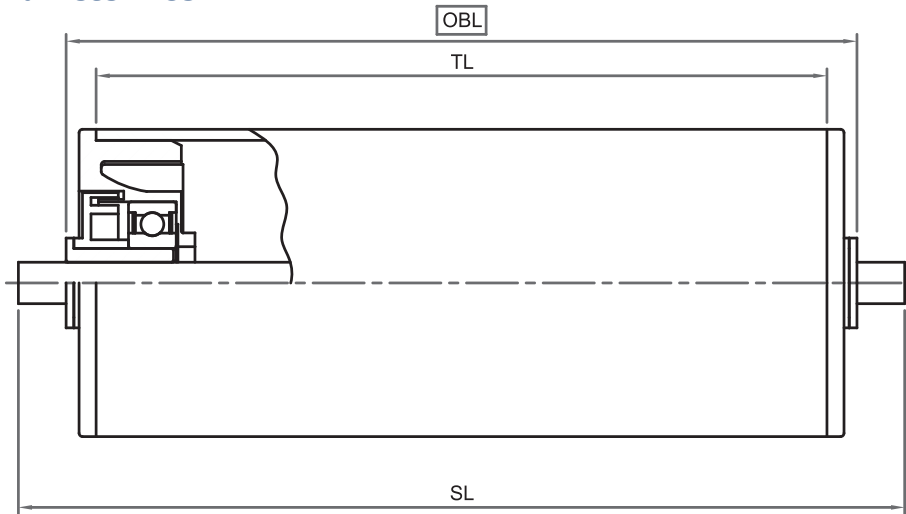
- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material	Shaft			
	Plastic				
100	50	See 480 page 43	See 480HD page 43	See 481 / 482 page 44	See 487 page 45
200	50				
300	50				
400	50				
500	50				
600	50				
700	40				
800	28				
900	20				
1000	12				
1100	10				
1200	5				

* Shaded sizes not recommended

- Max. speed – See 480, 480HD, 481, 482, or 487 plus 80%
- Max. static load 30kg.
- For central point load, reduce load rating by 1/3.
- Note; extra heavy duty Ø35, or Ø38mm shaft available – special order

897 Tube Diameter - 89mm



TL = OBL - 18mm (Ø12 & Ø16mm)
 = OBL - 15.5mm (Ø20mm)

Tube		Bearings		Shaft Materials	
Materials	89 x 3.2 Galv. Steel (80 NB light)	Materials	Precision bearing	Materials	Standard - Mild steel
	89 x 3.2 S/S (80 NB sch. 10)		Black polycarbonate housing		Option - Stainless steel
	89 x 3.2 Aluminium		Black polypropylene labyrinth and reducer bush		
	Option:S/S precision bearing (SS)				
				Size	Ø12, Ø16, & Ø20mm
				Type	Standard - Ø12, Ø16 - SP
					Standard - Ø20 - L
					Options - DL, F, FL, FT, L, MT

- Heavier Tube may be available
- Load Rating kg applies to listed tube options.

Roller Length (mm)	Tube Material			Shaft					
	Aluminium	Galv. steel	S/S	Spring Loaded			Fixed		
				Ø12mm	Ø16mm	Ø20mm	Ø12mm	Ø16mm	Ø20mm
100	350	360	360	250	360	360	350	360	360
200	350	360	360	200	360	360	325	360	360
300	350	360	360	160	360	360	325	360	360
400	350	360	360	120	360	360	325	360	360
600	250	360	360	80	280	360	325	360	360
800	150	360	360	50	200	360	325	360	360
1000	80	360	360	30	160	320	325	360	360
1200	50	360	360	20	140	260	325	360	360
1400	30	350	360		120	200	325	360	360
1600	10	300	320		100	140	325	360	360
1800	2	200	220		70	120	325	360	360
2000		130	160		50	100	325	360	360

* Shaded sizes not recommended

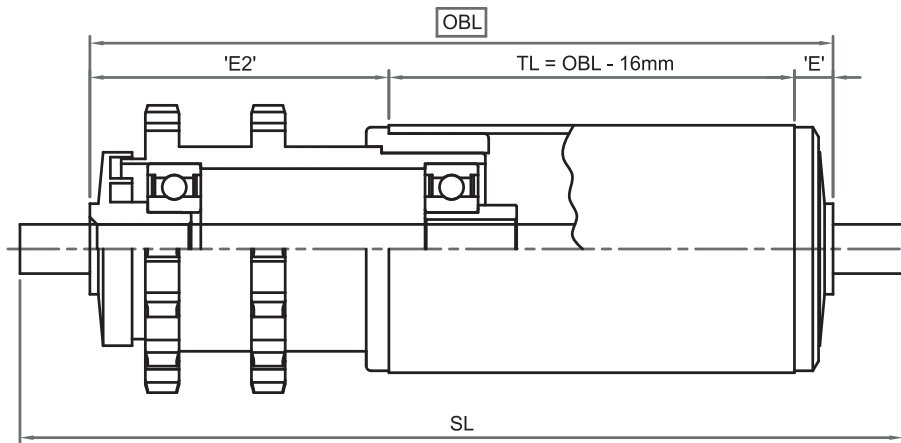
- Rated speed 110m/min.
- Max. static load 250kg.
- For central point load, reduce load rating by 1/3.
- Option; For heavy duty, all S/S & plastic roller.

Common uses;

- Pallet rollers (easy to move).
- Can be fitted with nylon sprocket, for light drive at reduced load rating.

DRIVEN CONVEYOR ROLLERS

Driven Roller Tube Diameter - 50, 60, & 89mm



	'E'			'E2'
	Tube Size			Ø50, Ø60, & Ø89mm
	Ø50mm	Ø60mm	Ø89mm	
Z11S	8	7.5	9.5	32
Z14S	8	7.5	9.5	39
Z14D	8	7.5	9.5	61
TB20	8	7.5	9.5	49.5
Bearing Type	507	607	897	
Accumulating Pressure	4 - 7%	2 - 5%	1 - 3%	
Double accumulating pressure for double ended drive				

- Standard Ø12, & Ø16mm shaft.
- Max. product weight 200kg.
- Max. total product weight on conveyor 2 tonne.
- Max. length of conveyor – 50 rollers or 15m each direction from drive, whichever is greater.
- Speed;
 - Chain sprocket 30 m/min (without excessive noise).
 - Toothed belt 90 m/min.

Driven Roller (Cont.)

Loose (Accumulating roller)

- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material				Shaft			
	Dynopipe	Aluminium	Galv.		Spring Loaded		Fixed	
	Ø50mm	Ø50mm	Ø50mm	Ø60mm	Ø12mm	Ø14mm	Ø12mm	Ø14mm
200	30	45	50	50	50	50	50	50
300	30	45	50	50	45	50	50	50
400	28	40	50	50	40	50	50	50
500	16	30	50	50	36	50	50	50
600	12	25	50	50	28	45	50	50
700	5	20	50	50	23	43	50	50
800	3	10	50	50	19	37	50	50
900	2	5	50	50	17	32	50	50
1000	1	2	50	50	15	28	50	50
1100			50	50	13	25	50	50
1200			50	50	12	23	50	50
1300			45	50	11	21	50	50
1400			35	45	10	20	50	50
1500			20	35	9	18	50	50

- Max. static load 40kg.
- Z9S - Max. static load 20kg.
- Ø60 & Ø89 tubes – Max. 50kg
- Ø10mm shaft – Max. 20kg up to 500 long.
- Ø8mm shaft – Max. 10kg up to 250 long

Fixed Roller

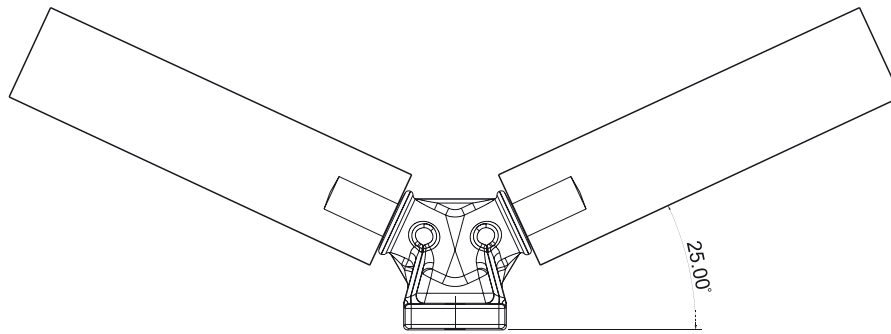
- Load Rating kg (Minimum applies).

Roller Length (mm)	Tube Material				Shaft			
	Dynopipe	Aluminium	Galv.		Spring Loaded		Fixed	
	Ø50mm	Ø50mm	Ø50mm	Ø60mm	Ø12mm	Ø14mm	Ø12mm	Ø14mm
200	30	45	90	85	50	90	55	90
300	30	45	90	85	45	80	55	90
400	28	45	90	85	40	70	55	90
500	16	40	90	85	36	68	55	90
600	12	30	90	85	28	52	55	90
700	5	25	90	85	23	43	55	90
800	3	20	90	85	19	36	55	90
900	2	10	90	85	16	31	55	90
1000	1	6	85	85	15	28	55	90
1100		4	80	85	13	25	55	90
1200		2	65	85	12	22	55	90
1300			45	80	11	20	55	80
1400			35	65	10	18	55	80
1500			25	50	9	17	50	80

- Max. static load 75kg.
- Z9S - Max. static load 30kg.
- Ø60 & Ø89 tubes – Max. 80kg
- Ø10mm shaft – Max. 20kg up to 500 long.
- Ø8mm shaft – Max. 10kg up to 250 long.

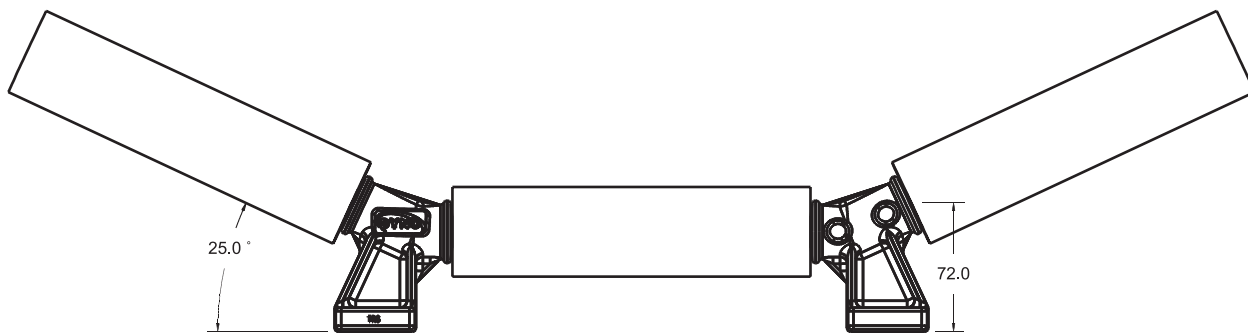
TRC, TRS Troughed Brackets

- Available roller diameters
 - 50mm (standard)
 - 60mm (special request)



Belt Width	300	400	500	600	650
Roller Length	150	200	250	300	325

For wider belts, a combination of equal and outset brackets is used





A to B, seamlessly.



Auckland 09 320 5535
Canterbury 03 307 0044
Southland 03 216 1440

Freephone 0800 144 044
Email sales@dyno.co.nz
www.dyno.co.nz



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