



TRANSMISSIONS



Mechanical Power Transmission



Agriculture



Automotive



Construction



Industrial



Motor Sport

# WE LOVE OUR PRODUCTS.

“We are proud to be a European manufacturer; it is a privilege to supply our products to some of the world’s most prestigious original equipment manufacturers in the Agricultural, Automotive, Construction, Industrial and Motor Sport sectors”.

“Our distributor network is vital to the continued global growth of the DUNLOP brand and our valued distributor partners form the perfect link between manufacturer and end user”.

“Our commitment to our staff, our customers and the environment is of paramount importance to our company, we will continue to develop our organisational skills to further enhance our company’s potential, to engage in sustainable practices and anticipate the needs and expectations of our customers”.

“We love our products”.

*Ray Mifsud, Managing Director.*

A stylized, handwritten signature in black ink, appearing to read 'R. Mifsud'.



**Dunlop BTL Ltd - Ashford  
European Distribution Centre**

MPT House, Brunswick Road  
Cobbs Wood Industrial Estate  
Ashford, Kent  
TN23 1EL , United Kingdom

**Dunlop BTL Ltd - Consett  
UK Manufacturing Centre**

Unit 46, Werdolh Way,  
No 1 Industrial Estate,  
Consett, County Durham  
DH8 6SZ , United Kingdom



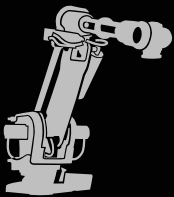
**Contact us**

-  +44 (0)1233 663340
-  +44 (0)1233 664440
-  [sales@dunlopctl.com](mailto:sales@dunlopctl.com)
-  [www.dunlopctl.com](http://www.dunlopctl.com)



**Manufacturing Facilities**

- UNITED KINGDOM
- FRANCE
- GERMANY
- ITALY
- SPAIN
- POLAND
- CZECH REPUBLIC
- SLOVAKIA
- SERBIA
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### **Manufacturing Facilities, Consett, Co. Durham UK**

Unit 46, Werdolh Way,  
No 1 Industrial Estate,  
Consett, County Durham  
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**“At Dunlop BTL we love our products”.**

**Ray Mifsud, *Managing Director.***



English



Español



Italiano



Deutsch



Français



Nederlands



Polskie

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## TENSIONING TECHNOLOGY

### Chain & V-Belt Tensioning

Roller chains are power transmission components with positive transmission which, by virtue of their design are subject, depending on quality, to elongation as a result of wear of 1 to 3% of their total length. In spite of this elongation, due to aging, a roller chain transmits the occurring torques effectively providing it is periodically re-tensioned. Without tension adjustment, the slack side of the chain becomes steadily longer, oscillates and reduces the force transmitting wrap angle of the chain on the sprockets.

The chain no longer runs smoothly off the teeth of the sprockets, producing uneven running of the entire drive and supporting wear. The service life of the chain drive can be extended considerably by the use of an automatic chain tension adjuster. The tensioning element prevents the slack side of the chain from 'sagging' or 'slapping' by its automatic operation and very wide tensioning range for compensating this given elongation.

The DUNLOP tensioning element is based on the rubber spring principle. According to application it is supplemented with the appropriate idler sprocket for chain drives or with a belt roller pulley in belt tensioner applications.

### Pre-tensioning

With the tensioning element the necessary travel and simultaneously the corresponding initial tension force can be accurately adjusted by a torsion angle scale and indicating arrow. Excessive initial pre-tensioning of the chain should be avoided in order to reduce the tensile force and surface pressure on the links.

### Vibration Damping

The DUNLOP tensioning element, based on a system of rubber springs, absorbs considerably the chain vibration due to internal molecular friction in the rubber inserts. The rubber spring effectively absorbs the vibrations, resulting from the polygon effect, which also positively influences the noise level of the complete chain drive.

## INSTALLATION

The idler sprocket is installed in arm position 'normal' or 'hard' in the required position and secured with the supplied nuts.

The laterally adjustable bearing on the thread permits simple and rapid adjustment of the idler sprocket to the chain track. The central fixing of the tensioning element with a single screw saves a great deal of time in installation. In addition, only one fixing hole is required on the 'machine side'.

On smooth, clean and torsionally rigid surfaces the resistance of the frictional contact between the tensioner housing and the machine element is a multiple of the maximum initial tensioning torque at 30°.

## TENSIONER TYPE SE

The tensioning element with the specification SE (SE 11 to SE 45) is the mostly used standard unit for tensioning all kinds of chain and belt drives. This unit is designed for applications in temperature range from  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ .

### Dunlop Idler Sprocket Set Type N

The DUNLOP idler sprocket set completes the tensioning element for applications in chain drives. The idler sprocket runs on a self-lubricating ball bearing Type 2 Z.

### Dunlop Idler Roller Pulley Set Type R

The DUNLOP idler roller pulley set installed on the relevant SE unit is an ideal belt tensioner. The roller is made of high quality industrial plastic material with two self lubricating ball bearings Type 2 Z.

## GENERAL INFORMATION

DUNLOP tensioners should be installed on a stiff, even and clean machine part means of the central bolt. The frictional connection on flange is usually fully sufficient for final positioning. The positioning notch on flange can be used to assure the tensioner additionally on uneven and dirty surfaces by setting a roller pin.

### Tensioning Force F

The tensioning force can be continuously adjusted. The max. pre tensioning angle is  $+30^{\circ}$  out of neutral position. Tensioning force table for types SE by using hole-position 'normal' for idler sprocket & idler roller pulley fixation.

Size SE	Pre-tension $< 10^{\circ}$		Pre-tension $< 20^{\circ}$		Pre-tension $< 30^{\circ}$	
	F (N)	s (mm)	F (N)	s (mm)	F (N)	s (mm)
11	15	14	40	28	80	40
15	25	17	65	34	135	50
18	75	17	180	34	350	50
27	150	22	380	44	800	65
38	290	30	730	60	1500	87
45	500	39	1300	78	2600	112

### Tensioning Force F

Table mentioning the tightening moment for the central screw (included in scope of delivery).

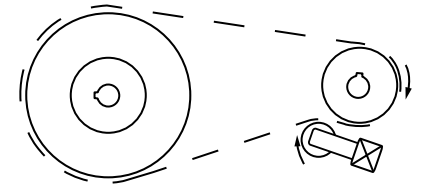
Thread Size	Quality 8.8
M6	10 Nm
M8	25 Nm
M10	49 Nm
M12	86 Nm
M16	210 Nm
M20	410 Nm

When fixing the idler sprockets and idler roller pulleys in arm position 'hard', the tensioning force will increase by about 25%.

## Mounting Instructions

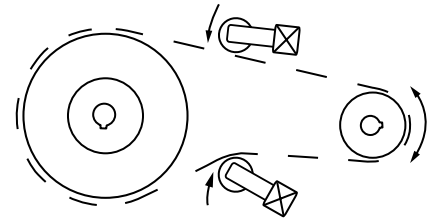
### Normal Positioning

The DUNLOP tensioning elements are always positioned on the slack side of the chain. They should be fitted as close as possible to the big wheel and hide the chain from the outer side. The ideal positioning of the tensioning arm is nearly parallel to the chain drive.



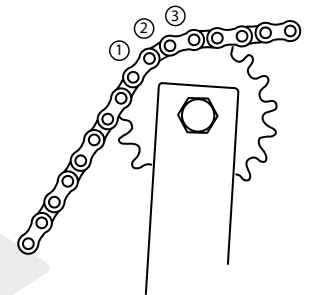
### Reversible Chain Drives

The tensioning elements must be placed on both sides of the chain. Due to the reversible function there results a much higher pressure on the load side than on the slack side of the chain. It is therefore advised to use oversized tensioning elements and a pretension angle of max 15°.



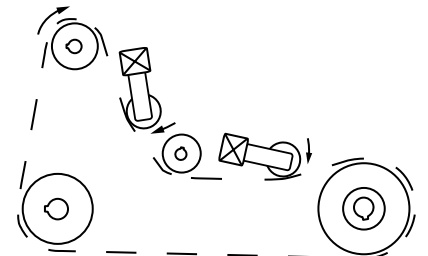
### Chain Engagement

At least 3 teeth of the idler sprocket must engage into the roller chain when tensioning the chain for the first time. The minimum number of engaged sprocket teeth between the tensioning wheel and chain is 3.



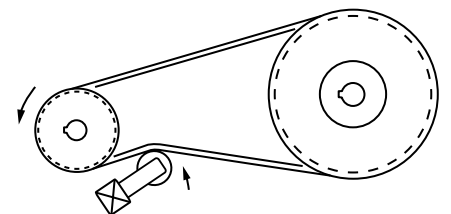
### Mounting

The chain tensioner must be adjusted in the axial and angular direction. The tensioning area should be nearly in parallel position to the chain and in the direction of the chain's drive. In case the chain drives are extremely long it is possible to fit several chain tensioners in order to obtain better tensioning and compensation.



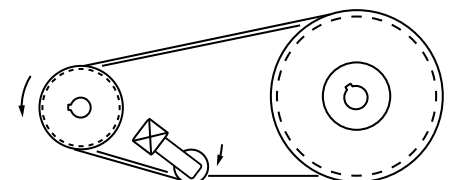
### V-Belt Tensioner - Outer Roller

Please refer to the instructions of the belt manufacturer for further information on the belt structure when mounting our DUNLOP belt tensioning elements with flat rollers on the back of the belt. Inner or outer tension rollers must be positioned as far away as possible from the next V-Belt pulley the belt is guided to.



### V-Belt Tensioner - Inner Grooved Pulleys

V-Belt pulleys can be mounted as inner rollers at any position on the slack side of the V-Belt (for drives with long axial distances and a high level of vibration we recommend to use pulleys with deep grooves).





## INSTRUCTIONS FOR BELT DRIVES

### Selection of the adequate DUNLOP Tensioner size

Selection table mentioning the most conventional V-Belt types.

V-Belt Type	Width (mm)	Height (mm)	Diam. of smaller pulley (mm)	Initial operation test-force $F_1^{**}$ (N)	Initial operation test-force $F_0^{**}$ (N)	Size SE* (without SE-W and SE-B)				
						1 Belt	2 Belt	3 Belt	4 Belt	5 Belt
SPZ, SPZX	10	8	56-71	20	16	11	18	18	18	18
			75-90	22	18	11	18	18	18	27
			95-125	25	20	15	18	18	18	27
			≥ 125	28	22	15	18	18	27	27
SPA, SPAX	13	10	80-100	28	22	15	18	18	27	27
			106-140	38	30	15	18	27	27	27
			150-200	45	36	18	18	27	27	27
			≥ 200	50	40	18	18	27	27	38
SPB, SPBX	16	13	112-160	50	40	18	18	27	27	38
			170-224	62	50	18	27	27	38	38
			236-355	77	62	18	27	38	38	38
			≥ 355	81	65	18	27	38	38	38
SPC, SPCX	22	18	224-250	87	70	18	27	38	38	38
			265-355	115	92	27	38	38	45	45
			≥ 375	144	115	27	38	38	45	45
Z, ZX	10	6	56-100	5-7.5		11	11	11	15	15
A, AX	13	8	80-140	10-15		11	15	18	18	18
B, BX	17	10	125-200	20-30		15	18	18	27	27
C, CX	22	12	200-400	40-60		18	27	27	38	38
D, DX	32	19	355-600	70-105		18	27	38	38	45

\*General basic selection criteria:

$$F = F_1 \cdot z \cdot 2$$

F Resulting tensioning force by a pre-tension angle of 20°.

$F_1$  Initial operation test-force according guidelines of the belt manufacturer.

z Quantity of belts in drive.

2 Multiplier for the compensation of belt slippage and/or of centrifugal force generated on belt strands.

\*\*required test-force for belt deflection of 16mm per 1000mm of centre distance. The relevant deflection by shorter or longer centre distance has to be interpolated accordingly.



TENSIONERS

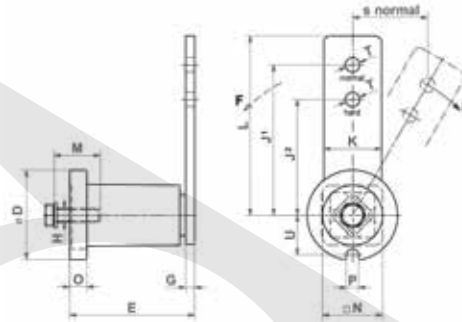
**BELT AND CHAIN TENSIONERS**

**Description**

Tensioning devices SE are available for both roller chain and V-Belt applications.

A range of idler sprockets to suit standard roller chain pitch sizes from O6B-1 to 24B-1 are available.

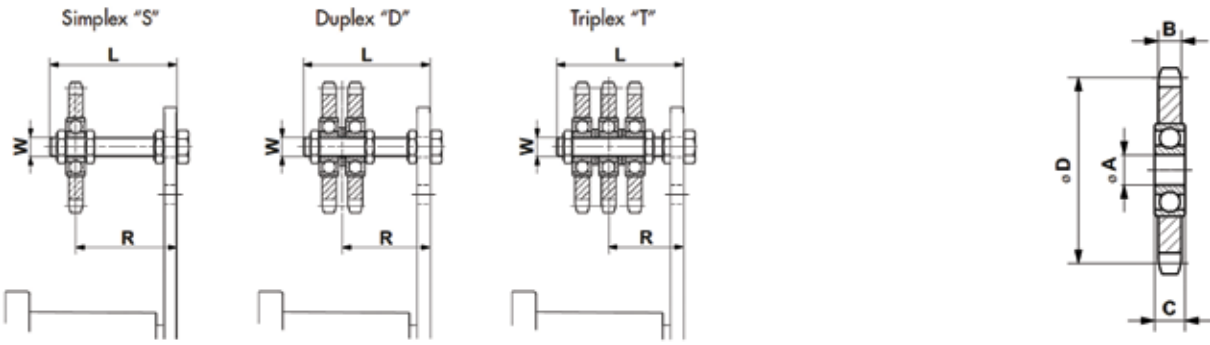
A range of idler roller pulleys are also available to suit standard V and wedge belt sections from Z/SPZ to C/SPC. Both designs have 2Z bearings fitted to the bore.



**TENSIONER ARM TYPE SE**

Part No.	D	E	G	H	J <sup>1</sup>	J <sup>2</sup>	K	L	M	N	O	P	T	U	Weight (kg)
SE 11	35	51 +1 -0.5	5	M6	80	60	20	90	20	22	6	8	8.5	16.5	0.2
SE 15	45	64 +1 -0.5	5	M8	100	100	25	112.5	25	30	8	8.5	10.5	20.8	0.4
SE 18	58	79 +1.5 -0.5	7	M10	100	100	30	115	30	35	10.5	8.5	10.5	25.3	0.6
SE 27	78	108 +2 -0.5	8	M12	130	130	50	155	40	52	15	10.5	12.5	34.3	1.7
SE 38	95	140 +2 -0.5	10	M16	175	175	60	205	40	66	15	12.5	20.5	42.0	3.6
SE 45	115	200 +3 -1	12	M20	225	225	70	260	50	80	18	12.5	20.5	52.0	6.4

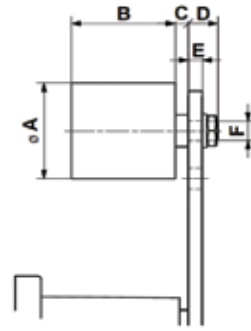




**IDLER SPROCKET SETS TYPE N**

Rollerchain		Part No.	Number of Teeth	W	L	Torque hex nut 0.5d (Nm)	Adjusting Range Track R	Size SE	Weight (kg)
ANSI	DIN 8187								
<b>Simplex 'S'</b>									
35	ISO 06 B-1	<b>N3/8"-10 S</b>	15	M10	55	20	22-43 / 23-43	15 / 18	0.15
40	ISO 08 B-1	<b>N1/2"-10 S</b>	15	M10	55	20	23-44	18	0.20
50	ISO 10 B-1	<b>N5/8"-12 S</b>	15	M12	80	35	27-65	27	0.35
60	ISO 12 B-1	<b>N3/4"-12 S</b>	15	M12	80	35	27-65	27	0.55
60	ISO 12 B-1	<b>N3/4"-20 S</b>	15	M20	100	172	38	38	0.85
80	ISO 16 B-1	<b>N1"-20 S</b>	13	M20	100	172	38	38	1.25
100	ISO 20 B-1	<b>N1 1/4"-20 S</b>	13	M20	100	172	45 / 50	45	2.00
120	ISO 24 B-1	<b>N1 1/2"-20 S</b>	11	M20	140	172	45 / 50	45	2.35
<b>Duplex 'D'</b>									
35	ISO 06 B-2	<b>N3/8"-10 D</b>	15	M10	55	20	27-39 / 28-39	15 / 18	2.00
40	ISO 08 B-2	<b>N1/2"-10 D</b>	15	M10	55	20	30-37	18	0.35
50	ISO 10 B-2	<b>N5/8"-12 D</b>	15	M12	80	35	36-57	27	0.60
60	ISO 12 B-2	<b>N3/4"-12 D</b>	15	M12	80	35	37-56	27	1.05
60	ISO 12 B-2	<b>N3/4"-20 D</b>	15	M20	120	172	50-90	38	1.35
80	ISO 16 B-2	<b>N1"-20 D</b>	13	M20	120	172	55-84	38	2.10
100	ISO 20 B-2	<b>N1 1/4"-20 D</b>	13	M20	140	172	60-102 / 68-102	45	3.60
120	ISO 24 B-2	<b>N1 1/2"-20 D</b>	11	M20	140	172	65-97 / 73-97	45	4.25
<b>Triplex 'T'</b>									
35	ISO 06 B-3	<b>N3/8"-10 T</b>	15	M10	70	20	33-48	18	0.25
40	ISO 08 B-3	<b>N1/2"-12 T</b>	15	M12	80	35	41-51	27	0.50
50	ISO 10 B-3	<b>N5/8"-12 T</b>	15	M12	80	35	43-50	27	0.95
50	ISO 10 B-3	<b>N5/8"-20 T</b>	15	M20	120	172	56-84	38	1.25
60	ISO 12 B-3	<b>N3/4"-20 T</b>	15	M20	120	172	59-80	38	1.50
80	ISO 16 B-3	<b>N1"-20 T</b>	13	M20	160	172	74-108	45	2.90
100	ISO 20 B-3	<b>N1 1/4"-20 T</b>	13	M20	160	172	78-105 / 86-105	45	5.20
120	ISO 24 B-3	<b>N1 1/2"-20 T</b>	11	M20	160	172	90-111 / 98-111	45	6.20

Rollerchain		Part No.	Number of Teeth	A	B	C	D	Weight (kg)
ANSI	DIN 8187							
35	ISO 06 B	<b>N3/8"-10</b>	15	10	5.3	9	45.81	0.06
40	ISO 08 B	<b>N1/2"-10</b>	15	10	7.2	9	61.08	0.15
40	ISO 08 B	<b>N1/2"-12</b>	15	12	7.2	12	61.08	0.15
50	ISO 10 B	<b>N5/8"-12</b>	15	12	9.1	12	76.36	0.27
50	ISO 10 B	<b>N5/8"-20</b>	15	20	9.1	15	76.36	0.29
60	ISO 12 B	<b>N3/4"-12</b>	15	12	11.1	12	91.63	0.47
60	ISO 12 B	<b>N3/4"-20</b>	15	20	11.1	15	91.63	0.47
80	ISO 16 B	<b>N1"-20</b>	13	20	16.1	15	106.14	0.88
100	ISO 20 B	<b>N1 1/4"-20</b>	13	20	18.5	15	132.67	1.60
120	ISO 24 B	<b>N1 1/4"-20</b>	11	20	24.1	15	135.23	1.93



**BELT DRIVE TENSIONING ROLLER**

Part No.	Max. Speed (rpm)	Max. Belt width	A	B	C	D	E max.	F	Torque hex. nut (Nm)	Size SE	Weight (kg)
R 11	8000	30	30	35	2	14	5	M8	20	11	0.08
R 15/18	8000	40	40	45	6	16	7	M10	20	15/18	0.17
R 27	6000	55	60	60	8	17	8	M12	35	27	0.40
R 38	5000	85	80	90	8	25	10	M20	160	38	1.15
R 45	4500	130	90	135	10	27	12	M20	160	45	1.75





MOTOR BASES

MOTOR BASES

Description

The fastest and most economical method of securing motors to machine beds. The five sizes are manufactured from galvanised steel and they can accommodate motor frame sizes 63 to 180. They have four slotted holes for fastening the base to the foundation.

Motor base range from SL210 to SL490.



Specification

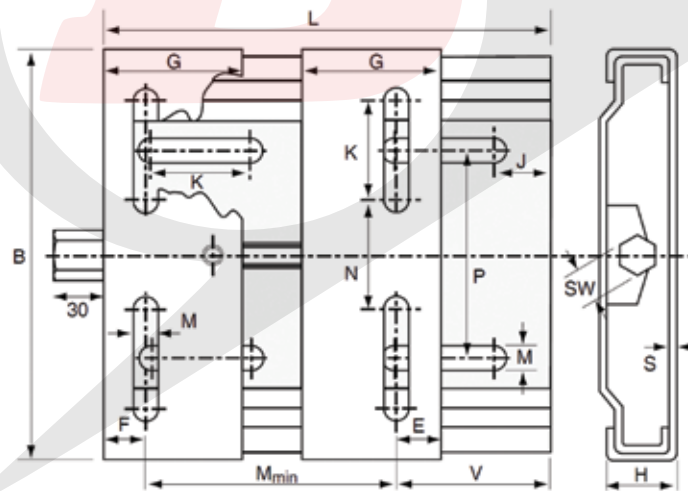
The fastest and most economical method of securing motors to machine beds. The five sizes are manufactured from galvanised steel and they can accommodate motor frame sizes 63 to 180. They have four slotted holes for fastening the base to the foundation.

Alignment

The pressed top plate is designed to slide over the base plate preventing vibration and noise whilst ensuring continuous belt alignment. Belts are tensioned by adjusting a single screw.

Motor Mount

The motor is bolted to the two piece top plate which accommodates a wide range of motors. Centre distance adjustments can be made without the need to loosen the motor bolts.



MOTOR BASES

Part No.	Frame Size	L	B	H	M	G	E	J	K	M	N	P	SW	S	V
SL210	63 - 80	210	195	33	100	70	20	25	50.0	10.5	43	98	19	3	90
SL270	63 - 100	270	195	33	100	70	20	25	50.0	10.5	43	98	19	3	150
SL307	90 - 112	307	213	35	100	70	20	30	50.0	10.5	65	108	19	3	175
SL340	90 - 132	340	290	39	136	95	27	29	62.5	12.5	90	165	22	4	180
SL430	90 - 160	430	290	39	136	95	27	29	62.5	12.5	90	165	22	4	271
SL490	160 - 180	490	409	40	110	95	40	30	60.0	15.0	193	142	22	4	336



## SHAFT COLLAR



## SHAFT COLLARS METRIC

## Description

Bore tolerance: + +0.050mm to +0.020mm

Width tolerance: + .076mm to - .254mm

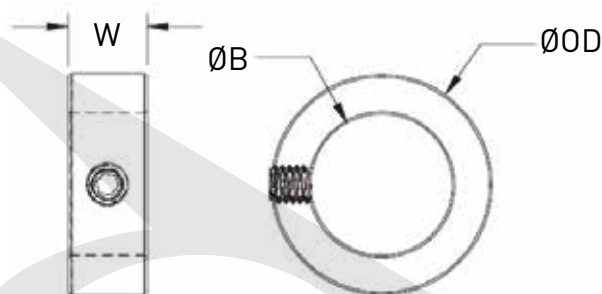
## Materials

Steel: 230M07PB zinc plated 'Trivalent'

Stainless steel: 303

Temperature range: +5°C to 180°C

Additional sizes are available.



## METRIC DIMENSION SERIES

Part Number Zinc Plated	Part Number Stainless Steel	Bore B (mm)	Outer Diametre OD (mm)	Width W (mm)	Set Screw
SH-C-M04SLD	SH-C-M045LD SS	4	8	5	M2.5x3
SH-C-M05SLD	SH-C-M045LD SS	5	10	6	M3x4
SH-C-M06SLD	SH-C-M065LD SS	6	12	8	M4x4
SH-C-M07SLD		7	12	8	M4x4
SH-C-M08SLD	SH-C-M08SLD SS	8	16	8	M4x4
SH-C-M09SLD		9	18	10	M5x5
SH-C-M10SLD	SH-C-M10SLD SS	10	20	10	M5x5
SH-C-M11SLD		11	20	10	M6x6
SH-C-M12SLD	SH-C-M12SLD SS	12	22	12	M6x6
SH-C-M13SLD		13	22	12	M6x6
SH-C-M14SLD	SH-C-M14SLD SS	14	25	12	M6x6
SH-C-M15SLD	SH-C-M15SLD SS	15	25	12	M6x8
SH-C-M16SLD	SH-C-M16SLD SS	16	28	12	M6x8
SH-C-M17SLD		17	28	12	M6x8
SH-C-M18SLD	SH-C-M18SLD SS	18	32	14	M6x8
SH-C-M20SLD	SH-C-M20SLD SS	20	32	14	M6x8
SH-C-M22SLD	SH-C-M22SLD SS	22	36	14	M8X8
SH-C-M24SLD		24	40	16	M8X8
SH-C-M25SLD	SH-C-M25SLD SS	25	40	16	M8X8
SH-C-M28SLD	SH-C-M28SLD SS	28	45	16	M8X10
SH-C-M30SLD	SH-C-M30SLD SS	30	45	16	M8X8
SH-C-M32SLD	SH-C-M32SLD SS	32	50	16	M8X10
SH-C-M35SLD	SH-C-M35SLD SS	35	56	16	M8X12
SH-C-M38SLD	SH-C-M38SLD SS	38	56	16	M8X10
SH-C-M40SLD	SH-C-M40SLD SS	40	63	18	M10X16
SH-C-M45SLD	SH-C-M45SLD SS	45	70	18	M10X16
SH-C-M50SLD	SH-C-M50SLD SS	50	80	18	M10X16



SHAFT COLLAR



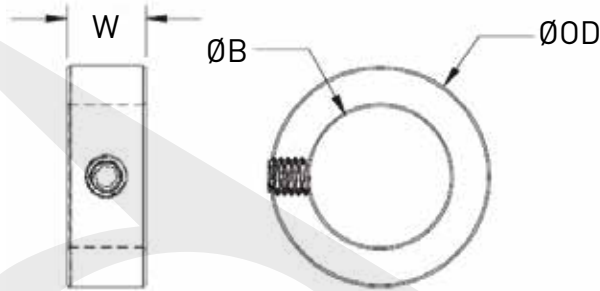
**SHAFT COLLARS IMPERIAL**

**Description**

Bore tolerance:  
 Up to 1" + .0005" to + .002"  
 1-1/16" to 2" + .0005" to + .003"

**Materials**

Steel: 230M07PB zinc plated "Trivalent"  
 Stainless Steel: 303  
 Temperature range: +5°C to + 180°C  
 Additional sizes are available.



**IMPERIAL DIMENSION SERIES**

Part Number Zinc Plated	Part Number Stainless Steel	Bore B (mm)	Outer Diameter OD (mm)	Width W (mm)	Set Screw
SH-C-03	SH-3-SS	0.1875	7/16	0.280	#8-32x1/8
SH-C-04	SH-4-SS	0.2500	1/2	0.281	#8-32x1/8
SH-C-05	SH-5-SS	0.3125	5/8	0.344	#10-32x5/32
SH-C-06	SH-6-SS	0.3750	3/4	0.375	1/4-20x3/16
SH-C-07		0.4375	7/8	0.438	1/4-20x1/4
SH-C-08	SH-8-SS	0.5000	1	0.438	1/4-20x1/4
SH-C-09		0.5625	1	0.438	1/4-20x1/4
SH-C-10	SH-10-SS	0.6250	1-1/8	0.500	5/16-18x1/4
SH-C-11		0.6875	1-1/4	0.563	5/16-18x1/4
SH-C-12	SH-12-SS	0.7500	1-1/4	0.563	5/16-18x1/4
SH-C-13		0.8125	1-5/16	0.563	5/16-18x1/4
SH-C-14	SH-14-SS	0.8750	1-1/2	0.563	5/16-18x5/16
SH-C-15		0.9375	1-5/8	0.563	5/16-18x5/16
SH-C-16	SH-16-SS	1.0000	1-5/8	0.625	5/16-18x5/16
SH-C-17		1.0625	1-3/4	0.625	5/16-18x5/16
SH-C-18	SH-18-SS	1.1250	1-3/4	0.625	5/16-18x5/16
SH-C-19	SH-19-SS	1.1875	2	0.688	3/8-16x3/8
SH-C-20	SH-20-SS	1.2500	2	0.688	3/8-16x3/8
SH-C-21	SH-21-SS	1.3125	2-1/8	0.688	3/8-16x3/8
SH-C-22	SH-22-SS	1.3750	2-1/8	0.750	3/8-16x3/8
SH-C-23		1.4375	2-1/4	0.750	3/8-16x3/8
SH-C-24	SH-24-SS	1.5000	2-1/4	0.750	3/8-16x3/8
SH-C-26	SH-26-SS	1.6250	2-1/2	0.813	3/8-16x3/8
SH-C-28	SH-28-SS	1.7500	2-3/4	0.875	1/2-13x1/2
SH-C-31		1.9375	3	0.875	1/2-13x1/2
SH-C-32	SH-32-SS	2.0000	3	0.875	1/2-13x1/2

“We are proud to be a European manufacturer; it is a privilege to supply our products to some of the world’s most prestigious original equipment manufacturers in the Agricultural, Automotive, Construction, Industrial and Motor Sport sectors”.



Agriculture

“Our distributor network is vital to the continued global growth of the DUNLOP brand and our valued distributor partners form the perfect link between manufacturer and end user”.



Automotive

“Our commitment to our staff, our customers and the environment is of paramount importance to our company, we will continue to develop our organisational skills to further enhance our company’s potential, to engage in sustainable practices and anticipate the needs and expectations of our customers”.



Construction

“We love our products”.

Ray Mifsud, Managing Director.

A handwritten signature in black ink, appearing to read 'R. Mifsud'.

Industrial

**#WeLoveOurProducts**



Motor Sport





TRANSMISSIONS

DUNLOP BTL Ltd, MPT House, Brunswick Road, Cobbs Wood Industrial Estate, Ashford, Kent TN23 1EL, UK  
T: +44 (0)1233 663340 • F: +44 (0)1233 664440 • E: [sales@dunlopctl.com](mailto:sales@dunlopctl.com) • W: [www.dunlopctl.com](http://www.dunlopctl.com)

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