

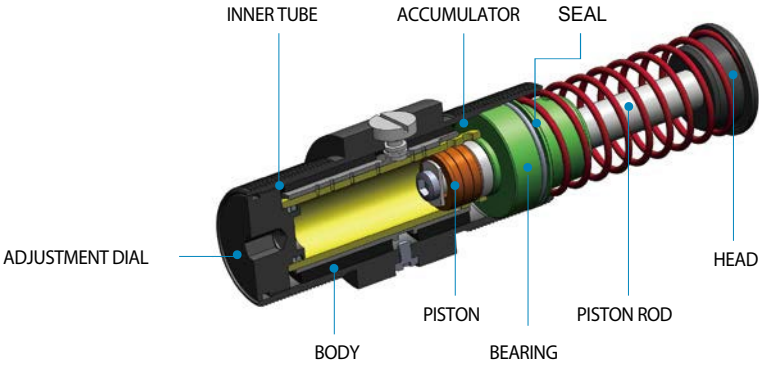
TDC Series Adjustable

TDC Series

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Technology

DESCRIPTION

The TDC series is a medium-large model, and the piston rod moves when an object collides, the piston compresses the oil chamber inside the inner tube, and the oil flows through the glove on the outer surface of the inner tube to the back of the piston and the accumulator. During this process, damping force is generated by the flow resistance, and the kinetic energy is converted into thermal energy and is lost to the atmosphere. When the load is removed, the recoil spring returns the piston rod to its original position.



FEATURES

- 01 TDC series is adjustable and can be fine-tuned in 8 steps according to the collision speed.
- 02 The capacity has increased by more than 200% due to the increase in the cross-sectional area of the piston, and the range of effective weight is wider.
- 03 The whole body is made up of screws, so it is easy to install and can be fixed in an accurate position. The increased surface area allows more thermal energy to be dissipated.
- 04 The body surface is treated with nickel or black coloring.
- 05 A stop collar is unnecessary when using a steel head, and when a poly pad or urethane cap is used together, the noise in the event of a collision is greatly reduced.
- 06 Bearings are made of durable materials to protect the seal and ensure a long life time.wider.
- 07 Velocity range : 0.1 - 5m/s Low speed : optional
- 08 Temperature coverage : -10 - 80°C Special : -40 - 120°C

TDC SERIES ORDERING INFORMATION

TDC 4225C - LV

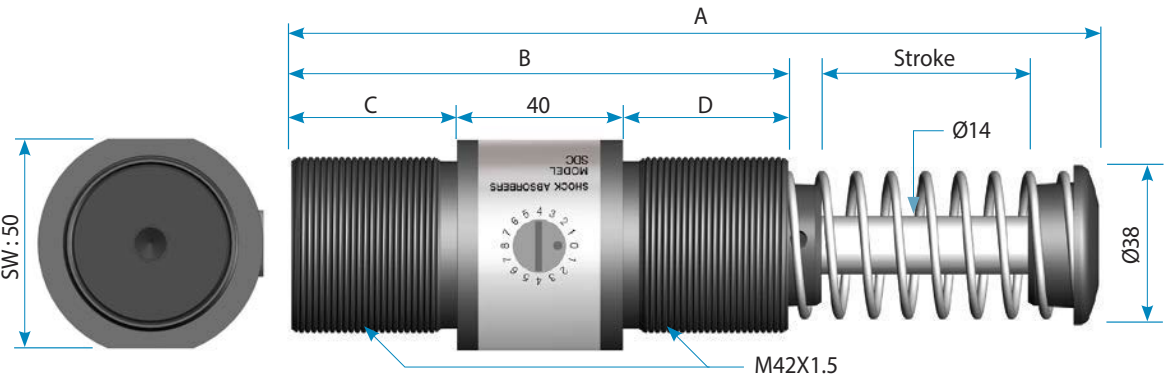
1. SHOCK ABSORBER
TDC : SERIES

2. THREAD x STROKE
4225C : M42 X 1.5P X 25
4250C : M42 X 1.5P X 50
4275C : M42 X 1.5P X 75
6450C : M64 X 2.0P X 50
64100C : M64 X 2.0P X 100
64150C : M64 X 2.0P X 150
8550C : M85 X 2.0P X 50
8590C : M85 X 2.0P X 90
85125C : M85 X 2.0P X 125
85165C : M85 X 2.0P X 165
11550C : M115 X 2.0P X 50
115100C : M115 X 2.0P X 100
115150C : M115 X 2.0P X 150
115200C : M115 X 2.0P X 200
115250C : M115 X 2.0P X 250

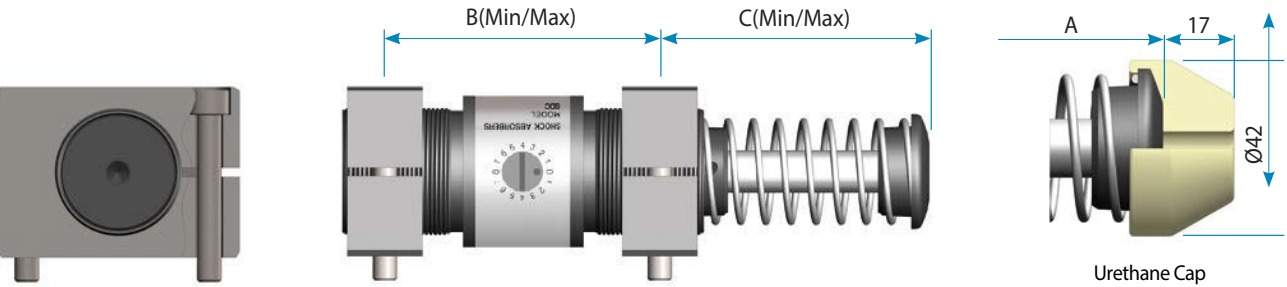
3. OPTION
Blank : Standard speed(0.3~3.5m/s)
LV : Low speed (0.08~1.3m/s)

Engineering Data

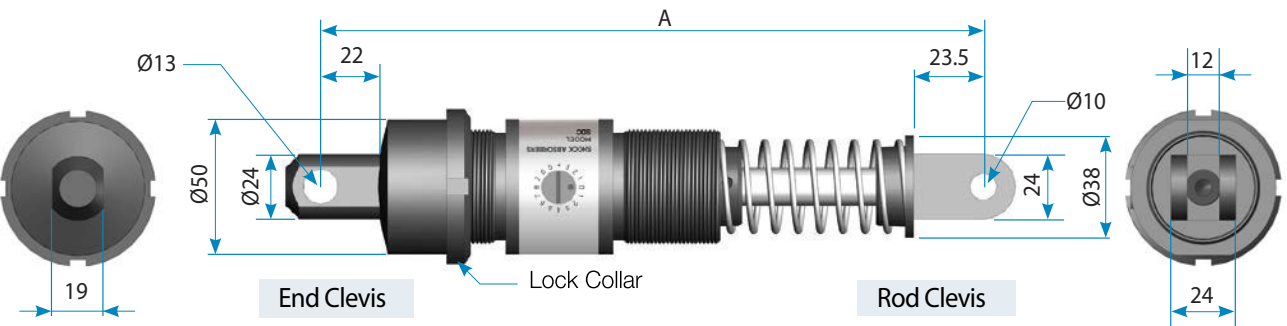
Model	Stroke (mm)	Max.Energy / Cycle(Nm)	Max.Energy / Hour (Nm / h)	Effective Weight(kg)	Recoil Forec(N)		Weight(kg)
					Ext.	Comp.	
TDC42 - 25	25	250	125,000	36 - 3,600	28	56	1.25
TDC42 - 50	50	500	166,000	45 - 6,150	38	86	1.4
TDC42 - 75	75	750	200,000	54 - 9,500	32	88	1.6



Clevis Mount



Clamp Mount



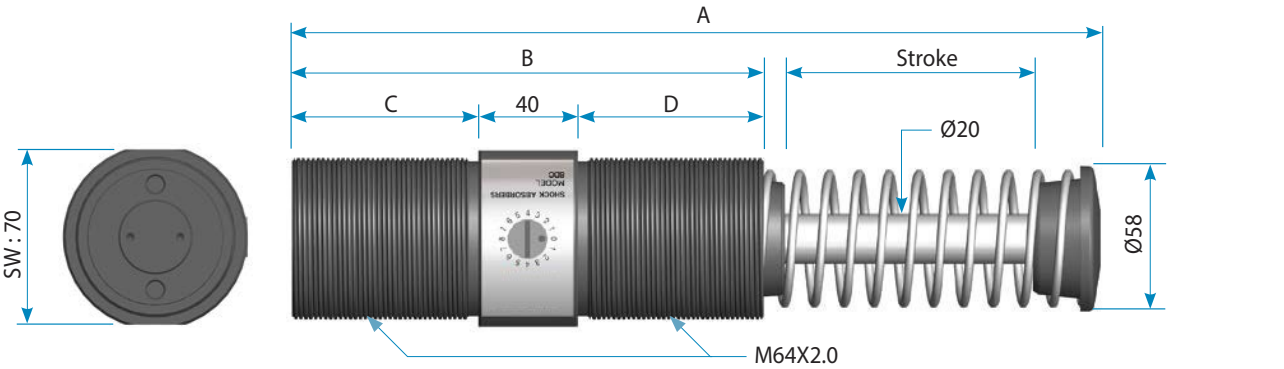
Dimensions

Model	Stroke	A	B	C	D	E(Min/Max)	F(Min/Max)	G
TDC42 - 25	25	145	95	28	27	65/70	62.5/64.5	200
TDC42 - 50	50	195	120	40	40	65/95	87.5/102.5	250
TDC42 - 75	75	245	145	52	53	65/120	117.6/145.5	300

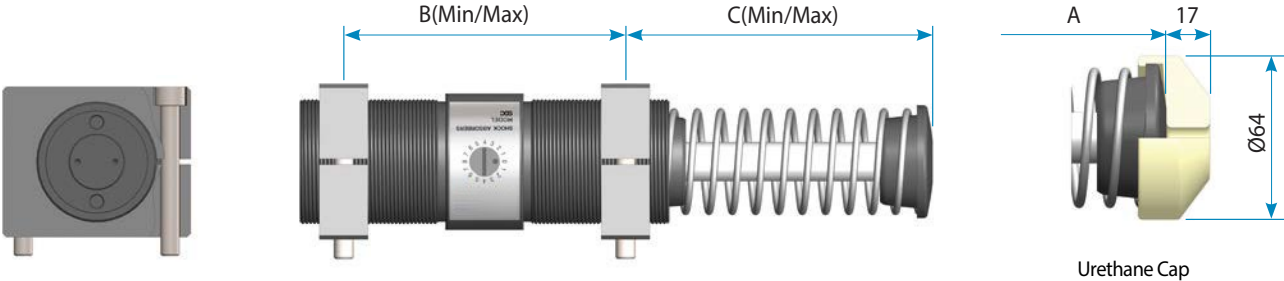
TDC64 Series

Engineering Data

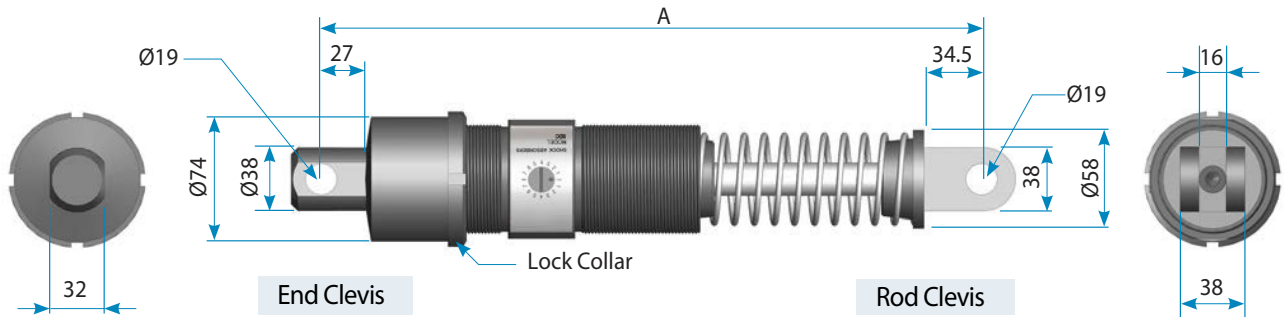
Model	Stroke (mm)	Max.Energy / Cycle(Nm)	Max.Energy / Hour (Nm / h)	Effective Weight(kg)	Recoil Forec(N)		Weight(kg)
					Ext.	Comp.	
TDC64 - 50	50	1,300	270,000	82 - 12,600	65	148	3.7
TDC64 - 100	100	2,600	360,000	115 - 17,000	45	157	4.5
TDC64 - 150	150	3,900	420,000	140 - 22,000	47	199	5.3



Clevis Mount



Clamp Mount



Dimensions

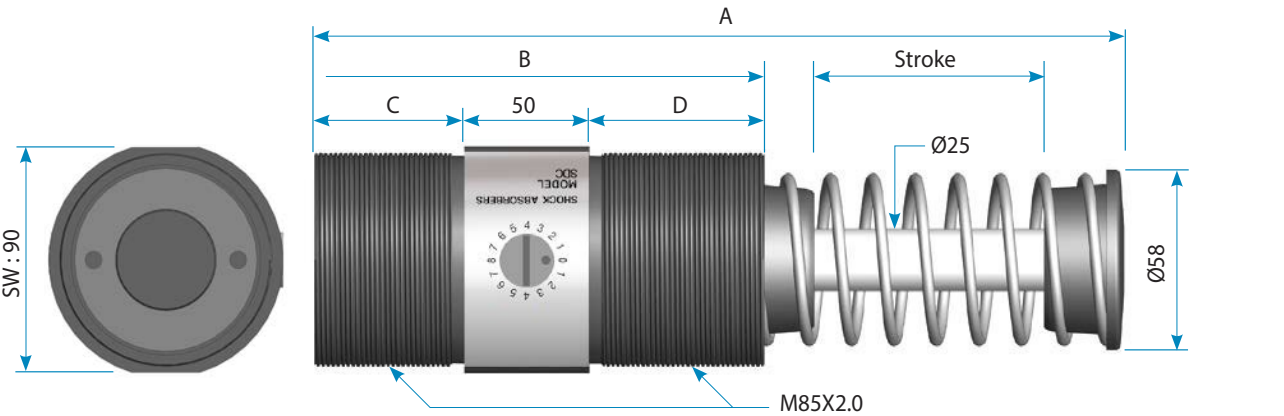
Model	Stroke	A	B	C	D	E(Min/Max)	F(Min/Max)	G
TDC64 - 50	50	225	140	50	50	65/115	97.5/122.5	305
TDC64 - 100	100	327	190	75	75	65/165	147.5/197.5	409
TDC64 - 150	150	455	240	100	100	65/215	197.5/272.5	534

TDC85 Series

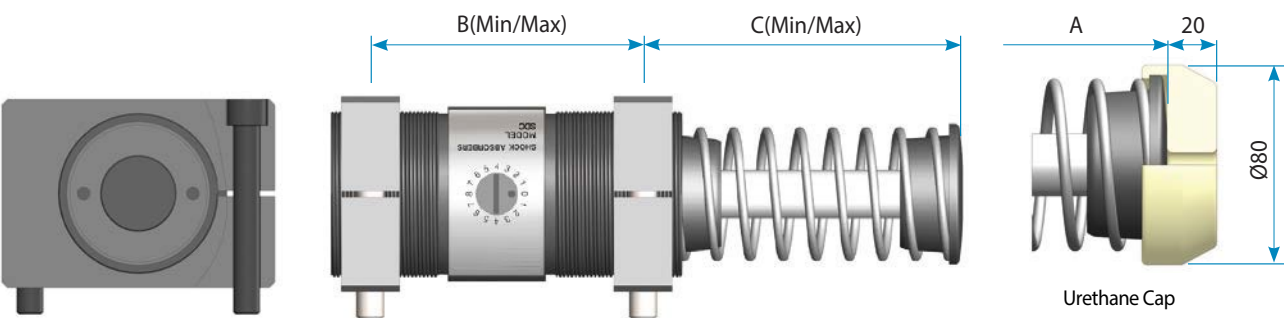
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Engineering Data

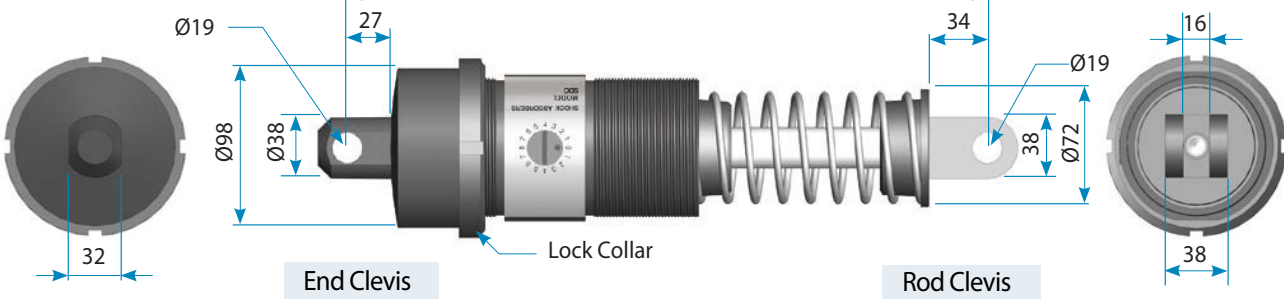
Model	Stroke (mm)	Max.Energy / Cycle(Nm)	Max.Energy / Hour (Nm / h)	Effective Weight(kg)	Recoil Forec(N)		Weight(kg)
					Ext.	Comp.	
TDC85 - 50	50	2,300	370,000	200 - 37,000	148	315	6.4
TDC85 - 90	90	4,000	650,000	230 - 40,000	121	365	7.6
TDC85 - 125	125	5,700	930,000	300 - 43,000	114	365	8.6
TDC85 - 165	165	7,300	1,210,000	360 - 45,000	98	429	9.8



Clevis Mount



Clamp Mount



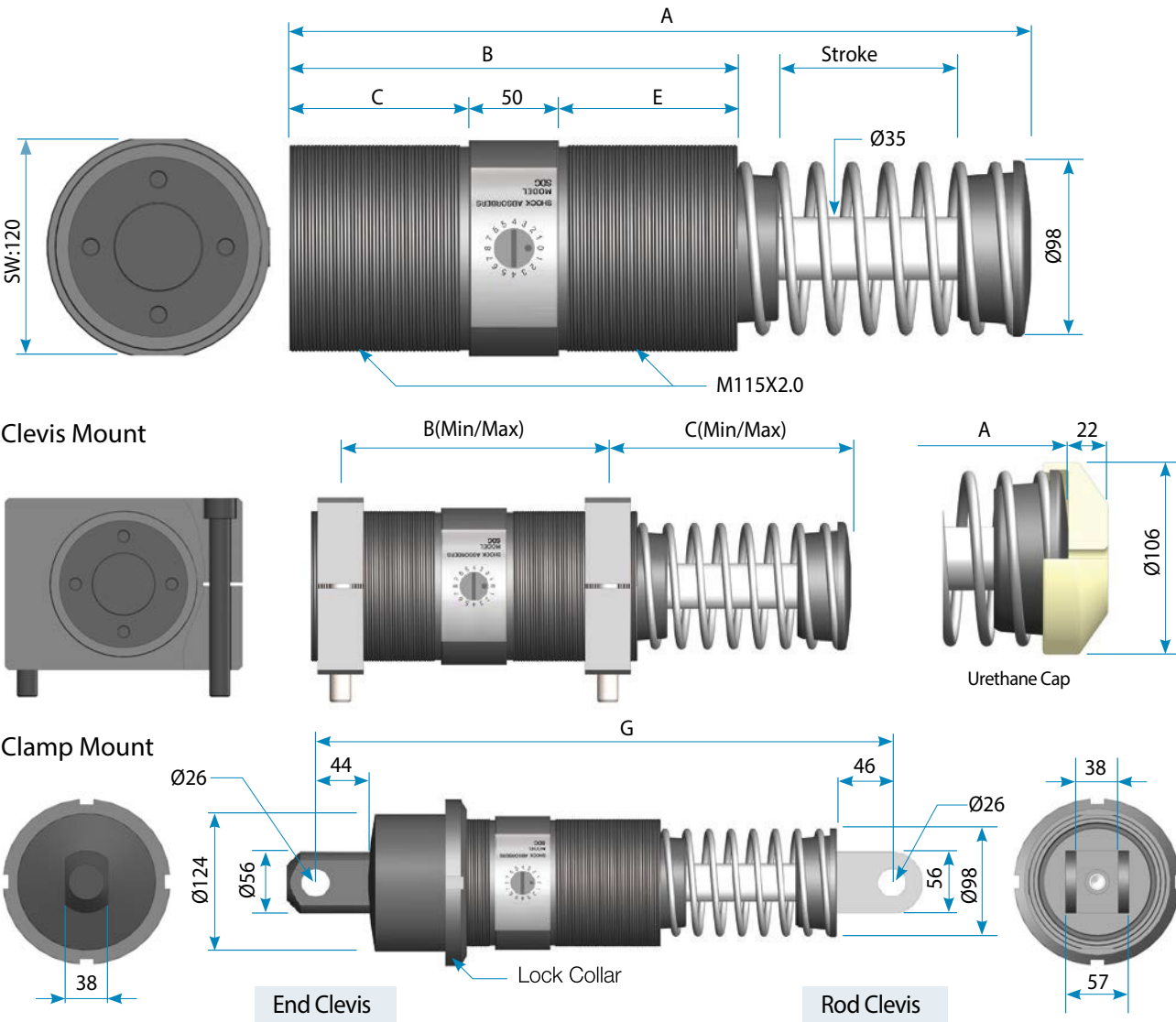
Dimensions

Model	Stroke	A	B	C	D	E(Min/Max)	F(Min/Max)	G
TDC85 - 50	50	245	140	42	48	80/110	120/138	325
TDC85 - 90	90	325	180	60	70	80/150	160/200	405
TDC85 - 125	125	400	216	82	84	80/186	195/249	480
TDC85 - 165	165	494	256	106	100	80/226	220/290	575

TDC115 Series

Engineering Data

Model	Stroke (mm)	Max.Energy / Cycle(Nm)	Max.Energy / Hour (Nm / h)	Effective Weight(kg)	Recoil Forec(N)		Weight(kg)
					Ext.	Comp.	
TDC115 - 50	50	3,700	1,501,000	370 - 44,000	187	427	16
TDC115 - 100	100	7,400	1,805,000	370 - 57,000	178	482	19
TDC115 - 150	150	11,100	2,100,000	370 - 89,000	185	538	21
TDC115 - 200	200	14,800	2,405,000	390 - 118,000	185	665	31
TDC115 - 250	250	18,500	2,710,000	440 - 145,000	184	649	34



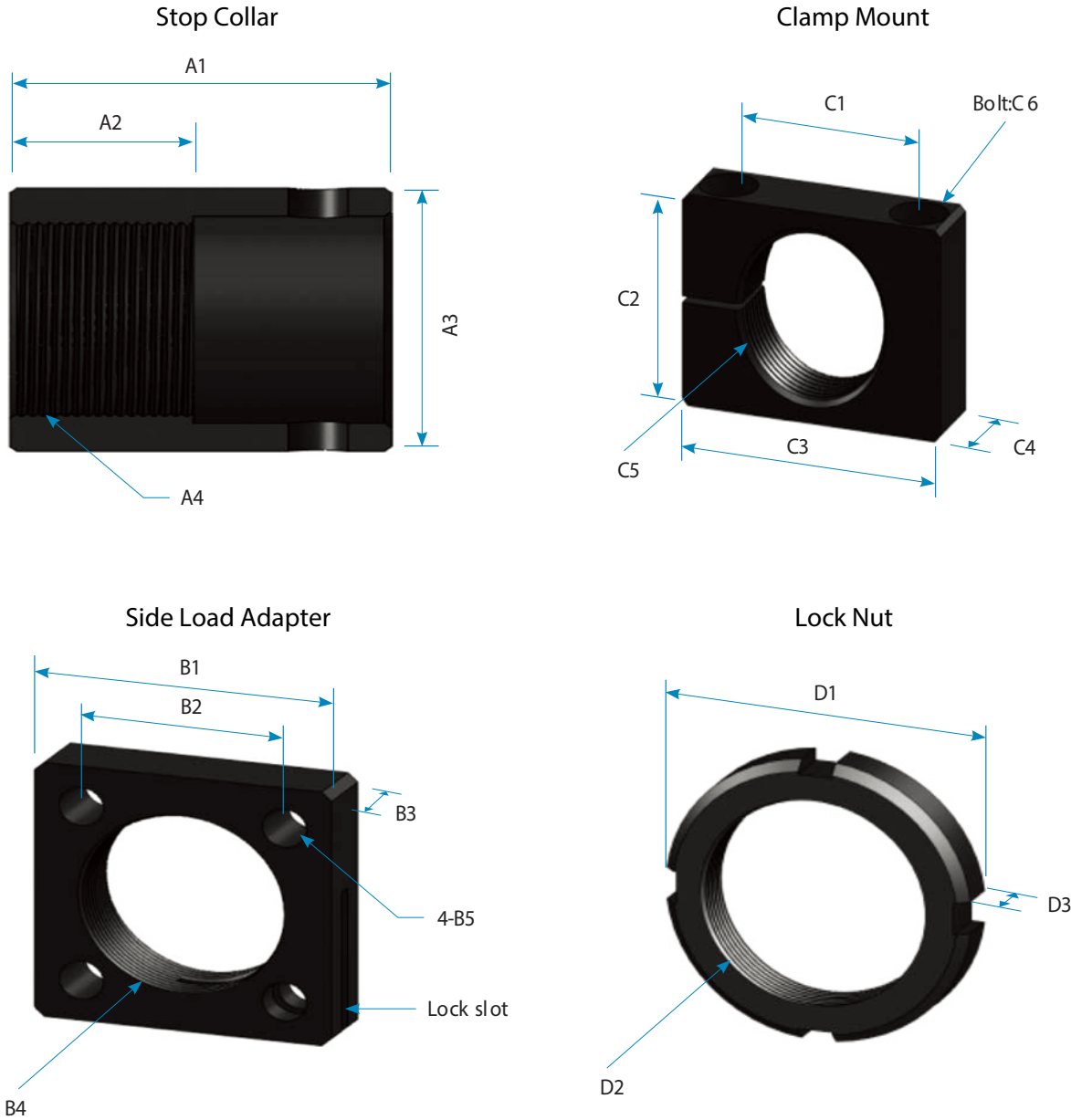
Dimensions

Model	Stroke	A	B	C	D	E(Min/Max)	F(Min/Max)	G
TDC115 - 50	50	314	200	75	75	80/170	129/174	430
TDC115 - 100	100	414	250	100	100	80/220	179/249	535
TDC115 - 150	150	514	300	125	125	80/270	229/324	635
TDC115 - 200	200	644	350	150	150	80/320	279/399	760
TDC115 - 250	250	744	400	180	170	80/370	329/479	865

TDC(Adjustable) Accessories

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Accessories



Dimensions

Model	StopCollar				Side Load Adapter					Clamp Mount						Lock Nut		
	A1	A2	A3	A4	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	C6	D1	D2	D3
TDC45 - Series	52	25	Ø56	M45 X 1.5P	□60	□41	14	M45 X 1.5P	Ø9	60	56	80	25	M45 X 1.5P	M8 X 60L	Ø58	M45 X 1.5P	9
TDC64 - Series	85	45	Ø75	M64 X 2.0P	□90	□70	16	M64 X 2.0P	Ø11	78	80	100	25	M64 X 2.0P	M10 X 80L	Ø80	M64 X 2.0P	11
TDC85 - Series	95	45	Ø98	M85 X 2.0P	□104	□76	19	M85 X 2.0P	Ø13	115	100	145	30	M85 X 2.0P	M14 X 100L	Ø110	M85 X 2.0P	16
TDC15 - Series	130	70	Ø138	M115 X 2.0	□140	□111	25	M115 X 2.0	4 - Ø18	150	135	185	35	M115 X 2.0	M16 X 150L	Ø150	M115 X 2.0	19