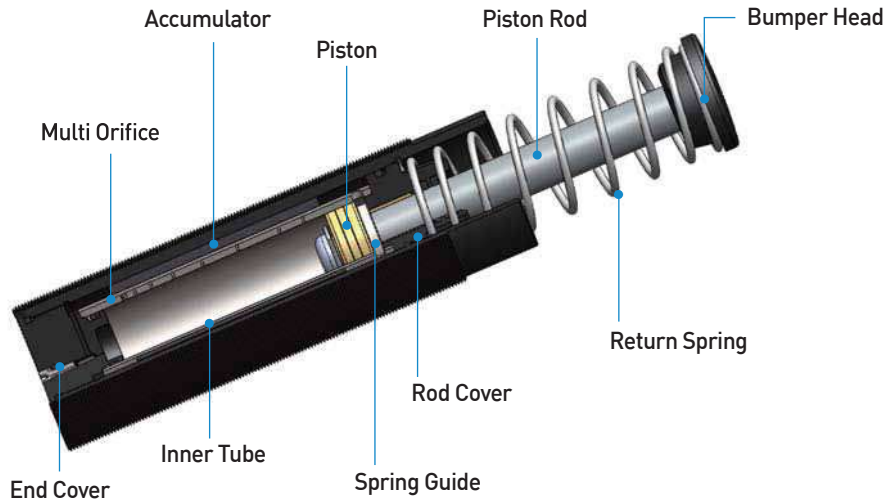


### IZMAC Mini absorber Self-compansating type

## DESCRIPTION

IMS is middle class shock absorber. Operation : when the collision comes piston compress oil chamber in inner tube according to the piston rod moving. Oil flows to accumulator position through outskirts line of tube. In this process, deceleration power comes by flow resistance. And kinetic energy is dissipated in the air by changed as heat energy. Recoil spring returns piston rod into its original position when the load is disappeared.

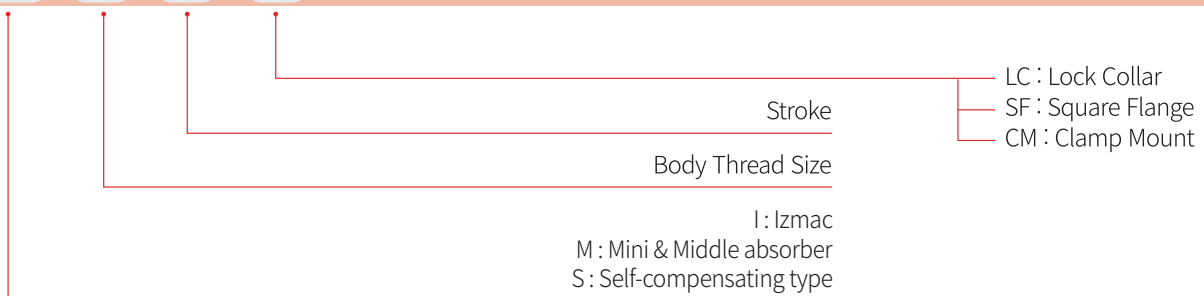


## FEATURES

- 1 Compact design and possible to absorb wide range of high shock energy.
- 2 The effective weight range is significantly expanded, resulting in a wide range of energy absorption capabilities.
- 3 Easy fastening and smooth heat dissipation due to the screw-type body.
- 4 Body surface strongly treated to prevent corrosion by nickel plating or alloy plating. (Black)
- 5 Body and mount : Black or Ni plating
- 6 Piston rod : Hard chrome (25 $\mu$  or more)
- 7 Speed range : 0.15 ~ 5 m/s
- 8 Temperature range : -10 ~ 80°C • Special : -40 ~ 120°C(Oil and Seal)

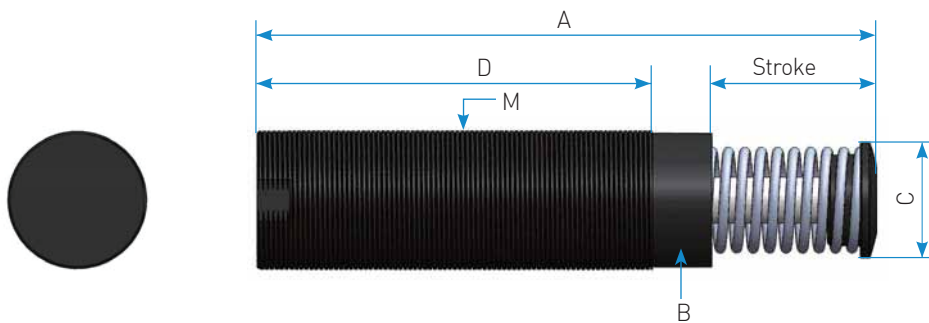
## IMS SERIES ORDERING INFORMATION

IMS - 45 - 25 - LC



## Engineering Data

Model	Stroke (mm)	Max. Energy / Cycle (Nm) $E_T$	Max. Energy / Hour (Nm/h) $E_T C$	Effective Weight (kg) $m_e$	Recoil Fore (N)		Weight (kg)
					Ext.	Comp.	
IMS33-25-1	25	300	120,000	7-32	45	90	0.53
IMS33-25-2	25	300	120,000	28-130	45	90	0.53
IMS33-25-3	25	300	120,000	80-590	45	90	0.53
IMS33-25-4	25	300	120,000	440-2,050	45	90	0.53
IMS33-25-5	25	300	120,000	2,000-12,500	45	90	0.53
IMS33-50-1	50	500	150,000	13-60	45	135	0.64
IMS33-50-2	50	500	150,000	56-240	45	135	0.64
IMS33-50-3	50	500	150,000	160-1,200	45	135	0.64
IMS33-50-4	50	500	150,000	1,000-4,200	45	135	0.64
IMS33-50-5	50	500	150,000	4,000-25,000	45	135	0.64



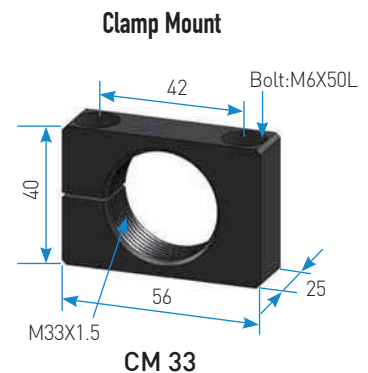
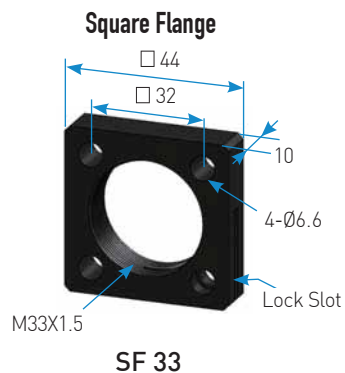
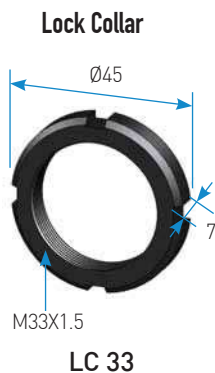
## Dimensions

Model	Stroke	A	B	C	D	M
IMS33-25	25	138	Ø31	Ø25	95	M33*1.5P
IMS33-50	50	189	Ø31	Ø25	121	M33*1.5P

## Accessories

- Other accessories to be ordered separately

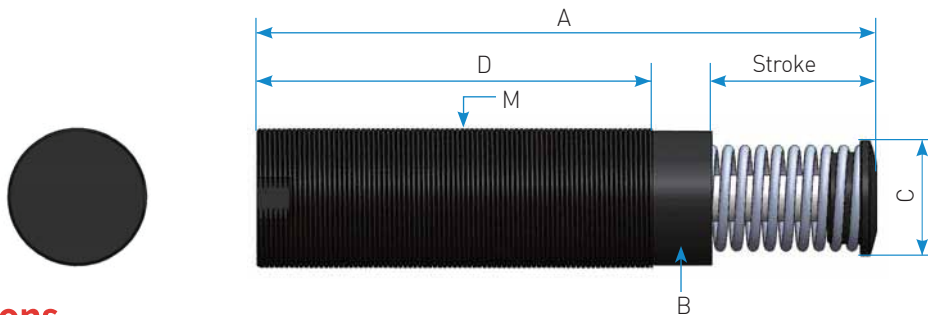
(unit : mm)



# IMS45 Series

## Engineering Data

Model	Stroke (mm)	Max. Energy / Cycle (Nm) $E_T$	Max. Energy / Hour (Nm/h) $E_{TC}$	Effective Weight (kg) $m_e$		Recoil Force (N)		Weight (kg)
						Ext.	Comp.	
IMS45 - 25 - 1	25	850	255,000	24	110	75	110	1.2
- 25 - 2	25	850	255,000	100	385	75	110	1.2
- 25 - 3	25	850	255,000	350	1,700	75	110	1.2
- 25 - 4	25	850	255,000	1,400	6,800	75	110	1.2
- 25 - 5	25	850	255,000	6,000	38,500	75	110	1.2
IMS45 - 50 - 1	50	1,300	325,000	35	170	75	150	1.4
- 50 - 2	50	1,300	325,000	160	590	75	150	1.4
- 50 - 3	50	1,300	325,000	540	2,600	75	150	1.4
- 50 - 4	50	1,300	325,000	2,150	10,400	75	150	1.4
- 50 - 5	50	1,300	325,000	3,200	58,900	75	150	1.4
IMS45 - 75 - 1	75	2,100	420,000	50	270	60	185	1.6
- 75 - 2	75	2,100	420,000	250	950	60	185	1.6
- 75 - 3	75	2,100	420,000	870	4,200	60	185	1.6
- 75 - 4	75	2,100	420,000	3,500	16,800	60	185	1.6
- 75 - 5	75	2,100	420,000	14,900	95,200	60	185	1.6



## Dimensions

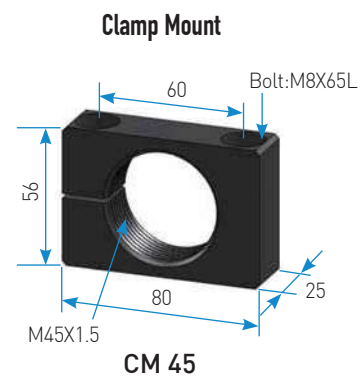
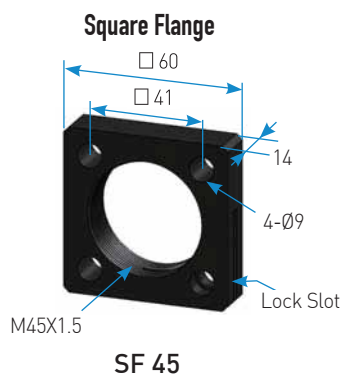
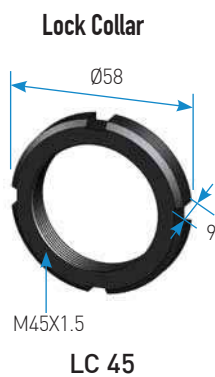
(unit : mm)

Model	Stroke	A	B	C	D	M
IMS45 - 25	25	145	Ø42	Ø35	95	M45 X 1.5P
- 50	50	195	Ø42	Ø35	120	M45 X 1.5P
- 75	75	246	Ø42	Ø35	145	M45 X 1.5P

## Accessories

- Other accessories to be ordered separately

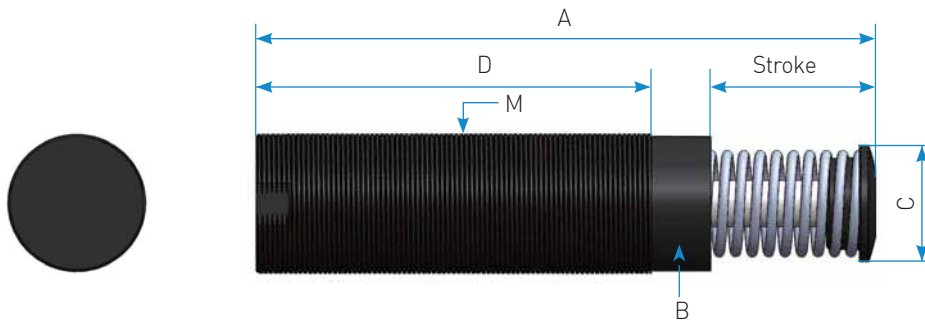
(unit : mm)





## Engineering Data

Model	Stroke (mm)	Max.Energy / Cycle(Nm) $E_T$	Max.Energy / Hour(Nm/h) $E_{T,C}$	Effective Weight(kg) $m_e$		Recoil Forec(N)		Weight(kg)
						Ext.	Comp.	
IMS64 - 50 - 1	50	2,400	240,000	60	320	95	160	3
- 50 - 2	50	2,400	240,000	280	1,090	95	160	3
- 50 - 3	50	2,400	240,000	990	4,800	95	160	3
- 50 - 4	50	2,400	240,000	4,000	19,200	95	160	3
- 50 - 5	50	2,400	240,000	17,000	108,800	95	160	3
IMS64 - 100 - 1	100	5,000	350,000	140	650	110	275	3.7
- 100 - 2	100	5,000	350,000	590	2,270	110	275	3.7
- 100 - 3	100	5,000	350,000	2,050	10,000	110	275	3.7
- 100 - 4	100	5,000	350,000	8,300	40,000	110	275	3.7
- 100 - 5	100	5,000	350,000	35,600	226,700	110	275	3.7
IMS64 - 150 - 1	150	8,000	400,000	220	1,050	80	370	5
- 150 - 2	150	8,000	400,000	950	3,600	80	370	5
- 150 - 3	150	8,000	400,000	3,300	16,000	80	370	5
- 150 - 4	150	8,000	400,000	13,200	64,000	80	370	5
- 150 - 5	150	8,000	400,000	16,000	362,000	80	370	5



## Dimensions

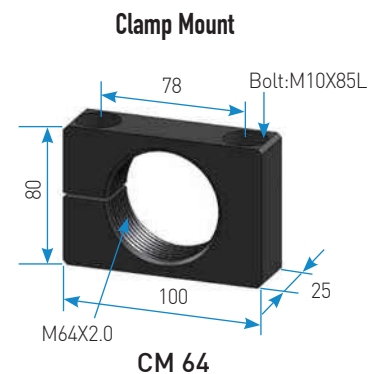
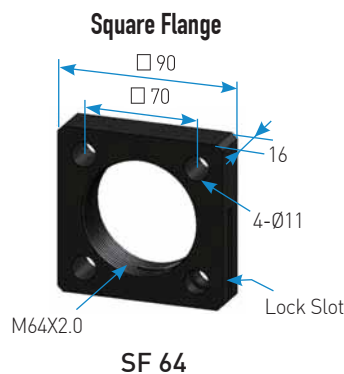
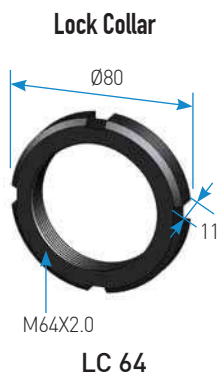
(unit : mm)

Model	Stroke	A	B	Stroke	C	D	M
IMS64 - 50	50	225	60		48	140	M64 X 2.0P
- 100	100	326	60		48	191	M64 X 2.0P
- 150	150	450	60		48	241	M64 X 2.0P

## Accessories

- Other accessories to be ordered separately

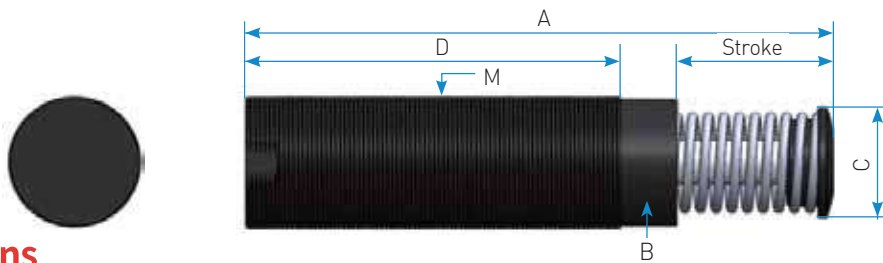
(unit : mm)



# IMS85 Series

## Engineering Data

Model	Stroke (mm)	Max. Energy / Cycle(Nm) $E_T$	Max. Energy / Hour(Nm/h) $E_{TC}$	Effective Weight(kg) $m_e$		Recoil Forec(N)		Weight(kg)
						Ext.	Comp.	
IMS85 - 50 - 1	50	4,000	1,200,000	110	520	140	330	7
- 50 - 2	50	4,000	1,200,000	470	1,800	140	330	7
- 50 - 3	50	4,000	1,200,000	1,600	8,000	140	330	7
- 50 - 4	50	4,000	1,200,000	6,600	32,000	140	330	7
- 50 - 5	50	4,000	1,200,000	28,400	181,000	140	330	7
IMS85 - 100 - 1	100	8,500	1,700,000	230	1,100	120	420	9
- 100 - 2	100	8,500	1,700,000	1,000	3,800	120	420	9
- 100 - 3	100	8,500	1,700,000	3,500	17,000	120	420	9
- 100 - 4	100	8,500	1,700,000	14,100	68,000	120	420	9
- 100 - 5	100	8,500	1,700,000	60,500	385,000	120	420	9
IMS85 - 150 - 1	150	13,500	2,025,000	370	1,800	110	430	12
- 150 - 2	150	13,500	2,025,000	1,600	6,100	110	430	12
- 150 - 3	150	13,500	2,025,000	5,600	27,000	110	430	12
- 150 - 4	150	13,500	2,025,000	22,300	108,000	110	430	12
- 150 - 5	150	13,500	2,025,000	96,100	612,000	110	430	12
IMS85 - 200 - 1	200	19,000	2,660,000	530	2,500	100	430	15
- 200 - 2	200	19,000	2,660,000	2,200	8,600	100	430	15
- 200 - 3	200	19,000	2,660,000	7,800	38,000	100	430	15
- 200 - 4	200	19,000	2,660,000	31,400	152,000	100	430	15
- 200 - 5	200	19,000	2,660,000	135,000	861,000	100	430	15
IMS85 - 250 - 1	250	23,500	2,820,000	650	3,100	95	430	20
- 250 - 2	250	23,500	2,820,000	2,800	10,700	95	430	20
- 250 - 3	250	23,500	2,820,000	9,700	47,000	95	430	20
- 250 - 4	250	23,500	2,820,000	38,800	188,000	95	430	20
- 250 - 5	250	23,500	2,820,000	167,000	1,065,000	95	430	20



## Dimensions

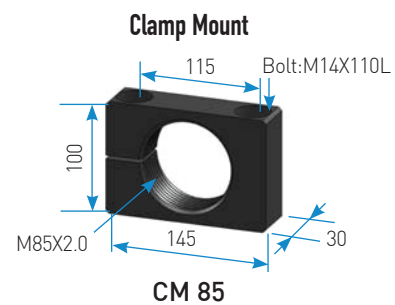
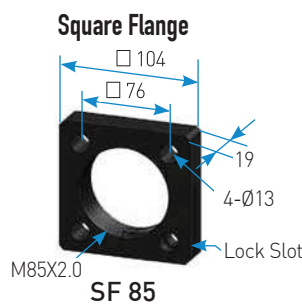
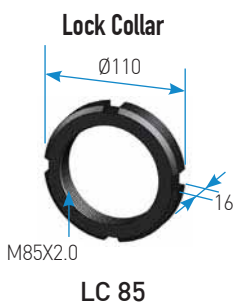
(unit : mm)

Model	Stroke	A	B	C	D	M
IMS85 - 50	50	258	81	68	165	M85 X 2.0P
- 100	100	360	81	68	218	M85 X 2.0P
- 150	150	485	81	68	285	M85 X 2.0P
- 200	200	590	81	68	330	M85 X 2.0P
- 250	250	700	81	68	390	M85 X 2.0P

## Accessories

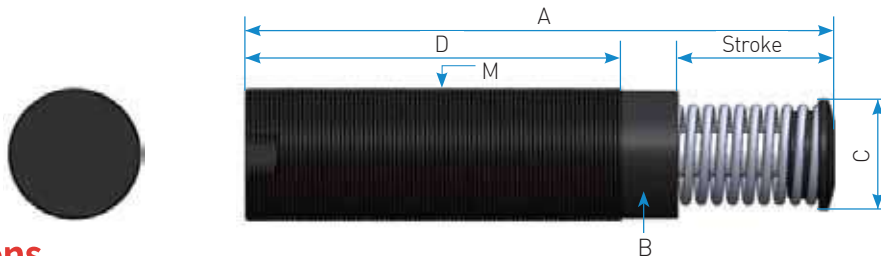
(unit : mm)

- Other accessories to be ordered separately



## Engineering Data

Model	Stroke (mm)	Max. Energy / Cycle (Nm) $E_T$	Max. Energy / Hour (Nm/h) $E_{TC}$	Effective Weight (kg) $m_e$		Recoil Forec(N)		Weight(kg)
						Ext.	Comp.	
IMS115 - 50 - 1	50	11,000	3,300,000	300	1,400	220	480	12
- 50 - 2	50	11,000	3,300,000	1,300	5,000	220	480	12
- 50 - 3	50	11,000	3,300,000	4,500	22,000	220	480	12
- 50 - 4	50	11,000	3,300,000	18,100	88,000	220	480	12
- 50 - 5	50	11,000	3,300,000	78,300	498,000	220	480	12
IMS115 - 100 - 1	100	22,600	4,520,000	630	3,000	220	550	14
- 100 - 2	100	22,600	4,520,000	2,700	10,300	220	550	14
- 100 - 3	100	22,600	4,520,000	9,400	45,200	220	550	14
- 100 - 4	100	22,600	4,520,000	37,300	180,800	220	550	14
- 100 - 5	100	22,600	4,520,000	160,000	1,024,000	220	550	14
IMS115 - 150 - 1	150	34,000	5,100,000	950	4,500	200	570	17
- 150 - 2	150	34,000	5,100,000	4,100	15,500	200	570	17
- 150 - 3	150	34,000	5,100,000	14,000	68,000	200	570	17
- 150 - 4	150	34,000	5,100,000	56,000	272,000	200	570	17
- 150 - 5	150	34,000	5,100,000	242,000	1,541,000	200	570	17
IMS115 - 200 - 1	200	45,000	6,300,000	1,300	6,000	180	570	20
- 200 - 2	200	45,000	6,300,000	5,400	20,500	180	570	20
- 200 - 3	200	45,000	6,300,000	18,500	90,000	180	570	20
- 200 - 4	200	45,000	6,300,000	74,300	360,000	180	570	20
- 200 - 5	200	45,000	6,300,000	320,000	2,040,000	180	570	20
IMS115 - 250 - 1	250	56,000	6,720,000	1,500	7,400	200	620	25
- 250 - 2	250	56,000	6,720,000	6,600	25,300	200	620	25
- 250 - 3	250	56,000	6,720,000	23,100	112,000	200	620	25
- 250 - 4	250	56,000	6,720,000	92,500	448,000	200	620	25
- 250 - 5	250	56,000	6,720,000	398,000	2,539,000	200	620	25



## Dimensions

(unit : mm)

Model	Stroke	A	B	C	D	M
IMS115 - 50	50	310	Ø111	Ø98	205	M115 X 2.0P
- 100	100	420	Ø111	Ø98	265	M115 X 2.0P
- 150	150	535	Ø111	Ø98	315	M115 X 2.0P
- 200	200	655	Ø111	Ø98	380	M115 X 2.0P
- 250	250	770	Ø111	Ø98	435	M115 X 2.0P

## Accessories

• Other accessories to be ordered separately

(unit : mm)

