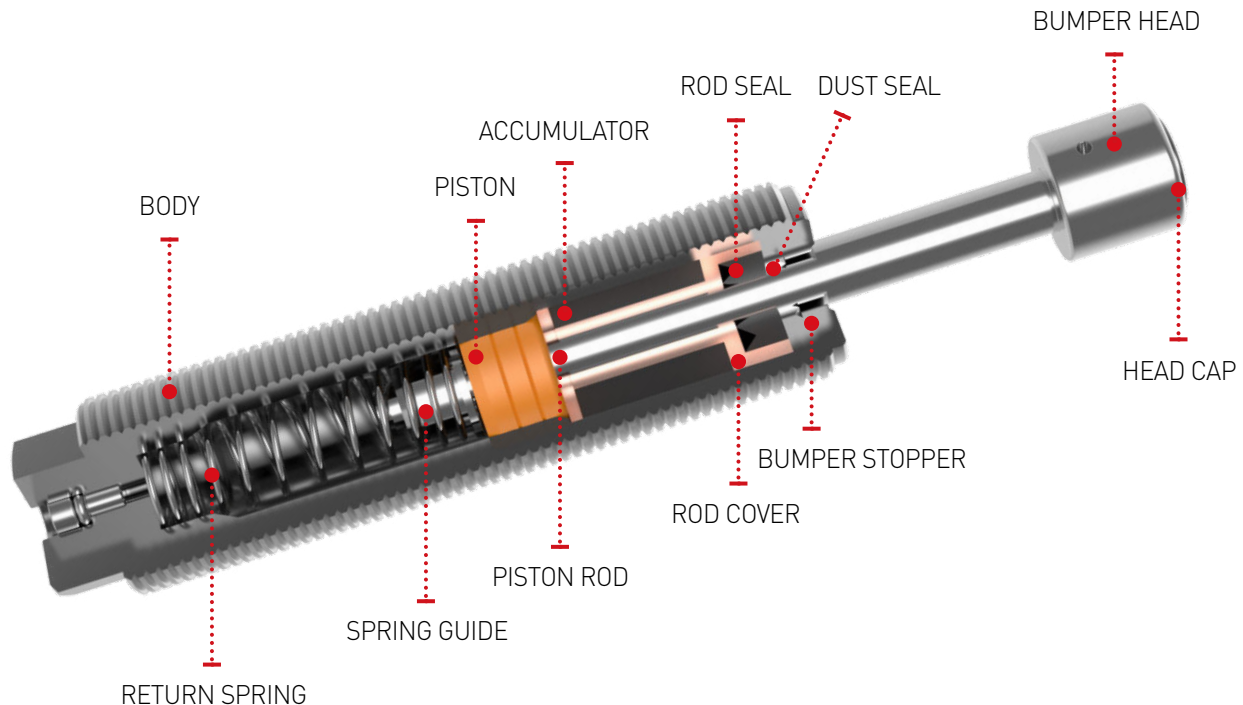


KMS Series Self Compensating Type

KMS is Slot Metering Type, which gradually decrease the impact force and smoothly stops when an object collides. Compared to existing products, the energy absorption capacity has increased by more than 200%, and the range of weight effect and absorption energy per hour is also increased.



Shock Absorber

Feature

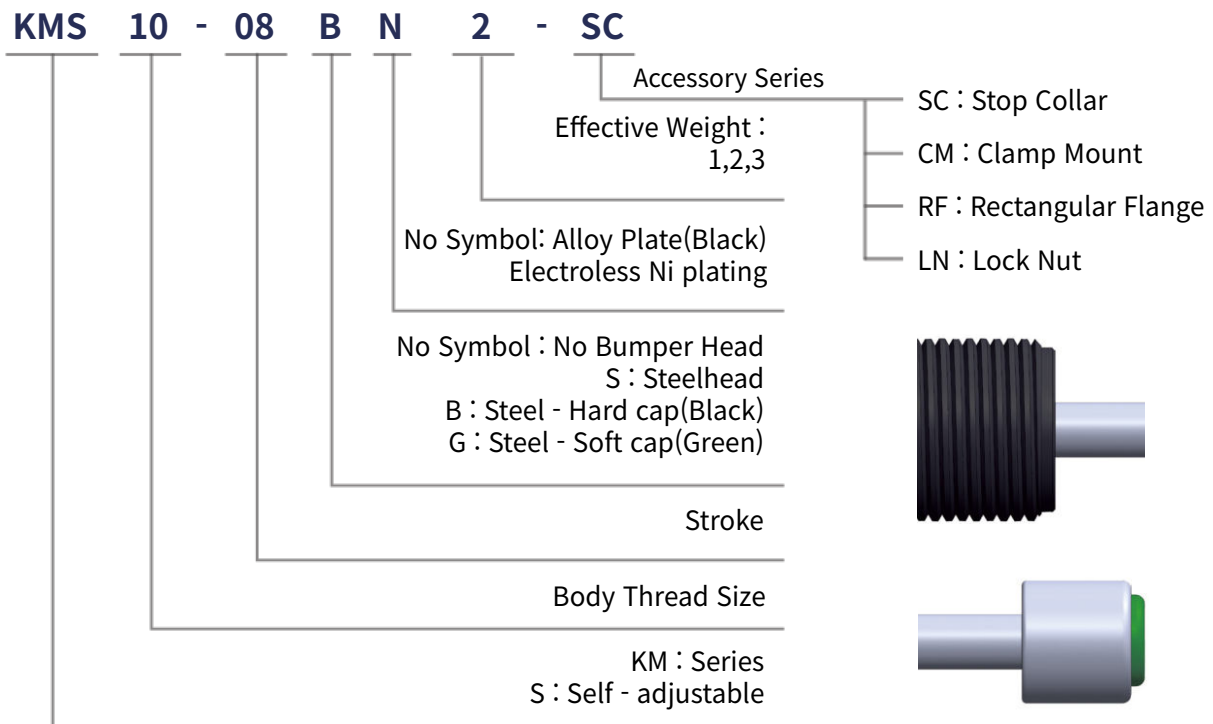
- As the piston size is increased, the energy absorption capacity is increased by 2~3 times compared to the existing products, and the energy per hour is upgraded with the increase of the oil amount, and the effective weight range is widely increased.
- Shock Absorber Body is built as one body, not only robust but also fundamentally helpful to solve the problem so called bottom out trouble.
- Fully threaded Body for mounting flexibility and improved thermal energy dissipation to the atmosphere.
- Piston Rod is made of anticorrosion material and Rod Cover is made of long lasting material with function of seal protection and that enable to guarantee long life.
- Body surface is Electroless Ni plated or Alloy plated, so that strong to corrosion.
- Several options of Bumper Head material - steel, black standard PU, green soft PU
- Velocity ranges : 0.3~5.0m/s
- Temperature ranges : -10~80°C
- Special specification custom made : Can be made to order according to characteristics such as thread, stainless, low temperature and high temperature.
: Option -40~120°C(Special oil and seal)

Application

- ✓ Pick N place Robot, Packing Machine, Machine Tool, Automobile Assembly Line, Tire Manufacturing Line, Casting Plant, Crane, Safety devices and all other areas of multi purposes.

KMS Series Self Compensating Type

KMS Series Ordering Information



Accessory Series Charts

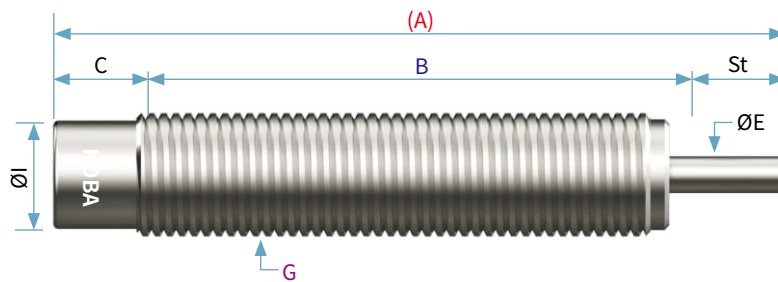
Accessories	Stop Collar	Clamp Mount	Rectangular Flange
Model \ Symbols	SC	CM	RF
KMS 04-04			
KMS 05-05	●	●	
KMS 06-05	●	●	
KMS 08-06	●	●	
KMS 10-08	●	●	
KMS 12-10	●	●	
KMS 14-15	●	●	
-20	●	●	
KMS 20-20	●	●	
-30	●	●	
-50	●	●	
KMS 25-25	●	●	
-40	●	●	
-50	●	●	
-80	●	●	
KMS 36-25	●	●	●
-50	●	●	●
-80	●	●	●

KMS04 - 04, KMS05 - 05, KMS06 - 05

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS04-04	4	0.4	1,500	0.1-1.0	0.9-3.2	-	2	7	2.5
KMS05-05	5	0.6	1,800	0.1-1.2	1.0-5.0	-	2	7	2.5
KMS06-05	5	1	2,500	0.05-1	0.8-2.8	1.5-4	2	5	4.0

※ KMS04/05/06 Series Body & Piston Rod stainless steel



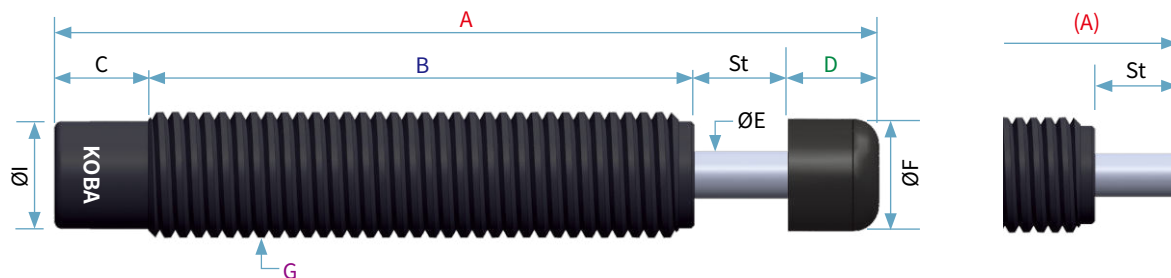
Dimensions (unit : mm)

Model	St	(A)	B	C	D	ØE	F	G	H	ØI
KMS04-04	4	30.5	24	2.5	-	1.2	-	M4x0.5P	-	3.4
KMS05-05	5	31	22.5	3.5	-	1.5	-	M5x0.5P	-	4.4
KMS06-05	5	33.5	25	3.5	-	1.5	-	M6x0.5P	-	5.3

KMS08 - 06(B), KMS10 - 08(B)

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS08-06(B)	6	5	8,000	0.8-2.8	2.5-12.6	10-111	2.2	5.8	10
KMS10-08(B)	8	11	14,500	1.8-6.1	5.5-27	22-244	2.5	6.9	15.5



Dimensions (unit : mm)

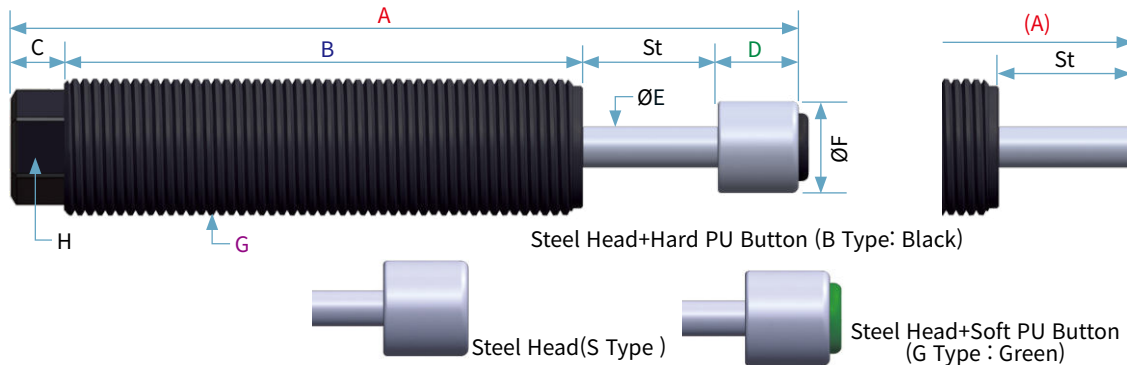
Model	St	A(A)	B	C	D	ØE	ØF	G	H	ØI
KMS08-06(B)	6	54(47)	35	6	7	3	6.8	M8x1.0P	-	6.8
KMS10-08(B)	8	64(57)	44.5	4.5	7	3	8.6	M10x1.0P	-	8

KMS Series Self Compensating Type

KMS12 - 10(B), KMS14 Series

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS12-10(B)	10	18	34,000	2.9-10	9-44	36-400	3.7	9.6	23
KMS14-15(B)	15	34	51,000	5-18	17-84	68-755	3.8	13.3	43
-15F(B)									



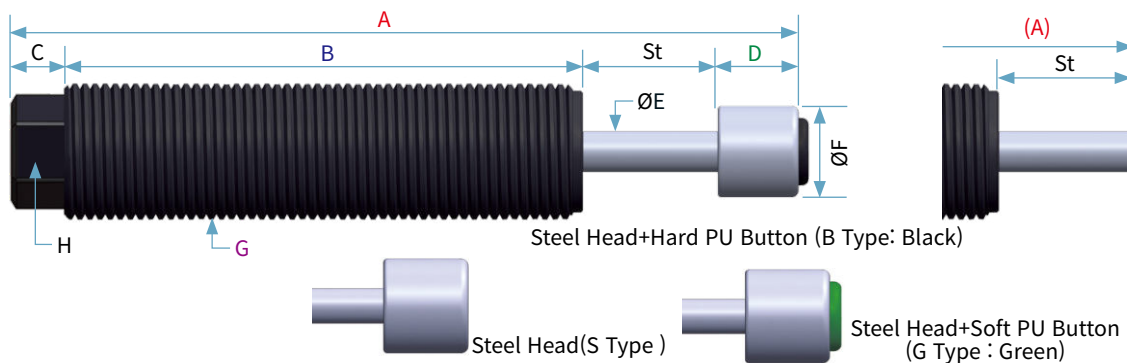
Dimensions (unit : mm)

Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS12-10(B)	10	79(69)	52.5	6.5	10	4	10.5	M12x1.0P	SW:8
KMS14-15(B)	15	100.5(90.5)	69	6.5	10	4	10.5	M14x1.5P	SW:10
-15F(B)								M14x1.0P	

KMS20-20(B)

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS20-20(B)	20	105	55,000	13-39	36-210	173-2,333	8.2	23	140



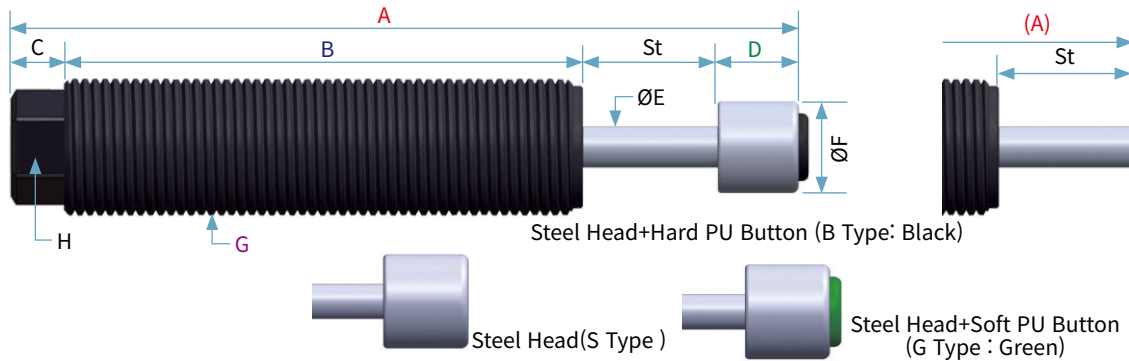
Dimensions (unit : mm)

Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS20-20(B)	20	118.5(105)	77	8	13.5	6	13.5	M20x1.5	SW:15

KMS25 Series

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS25-25(B)	25	226	69,000	28-85	78-452	373-5,022	11	29	265
-25F(B)									



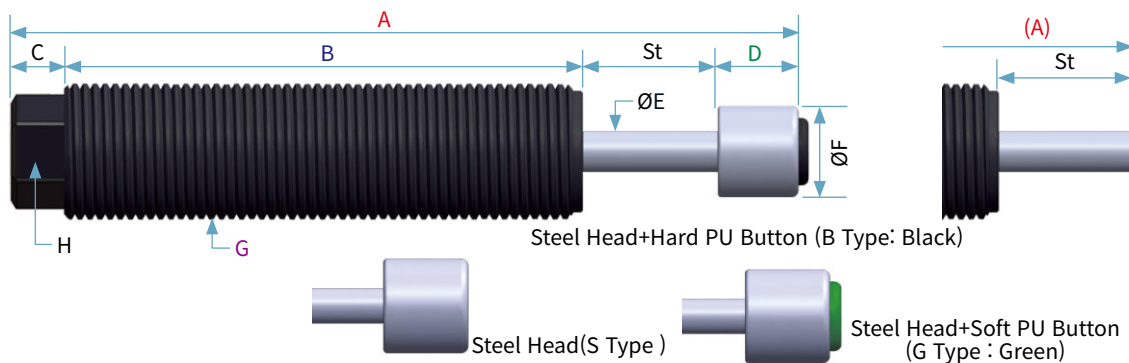
Dimensions (unit : mm)

Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS25-25(B)	25	141.5(125)	91	9	16.5	8	16	M25x2.0	SW:19
-25F(B)								M25x1.5	

KMS36 - 25(B)

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS36-25(B)	25	490	115,000	61-185	170-500	435-10,888	25	64.3	758



Dimensions (unit : mm)

Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS36-25(B)	25	164(140)	101	14	24	10	28	M36x1.5	SW:30

Shock Absorber

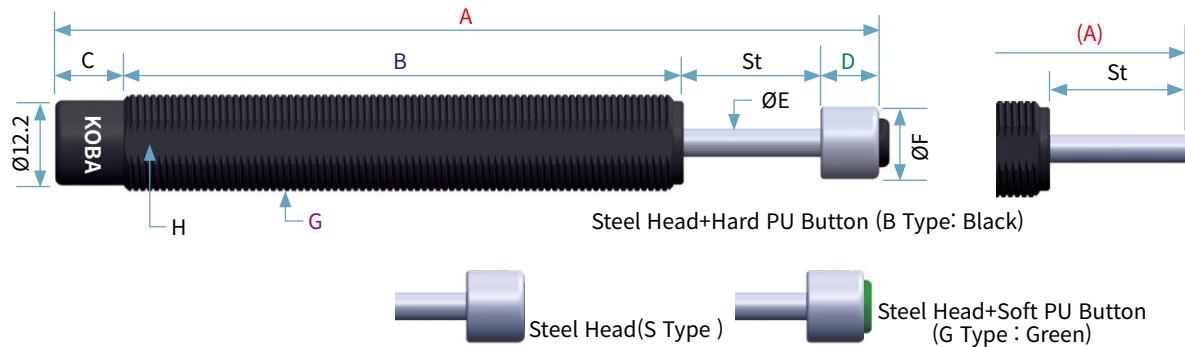
KMS Series Self Compensating Type

KMS LONG STROKE TYPE

KMS14 - 20(B)

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS14-20(B)	20	13	45,500	2-7	6.5-32	26-288	3.6	13.9	71



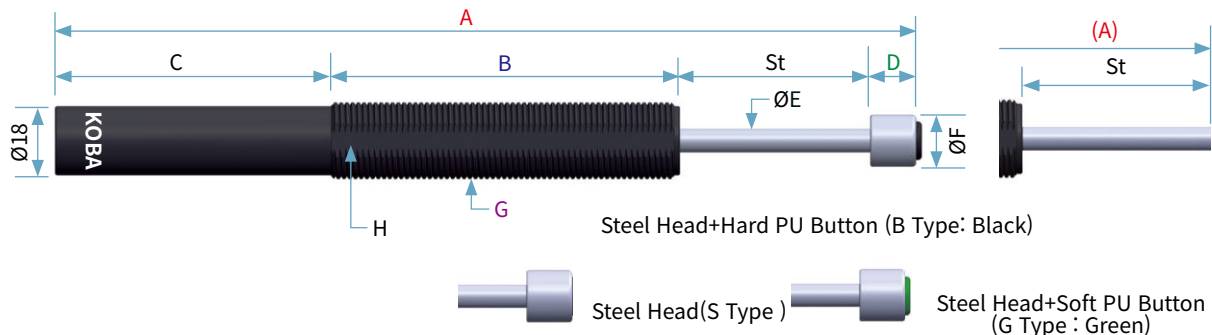
Dimensions (unit : mm)

Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS14-20(B)	20	121.5(111.5)	81.5	10	10	4	10.5	M14x1.0P	SW:12.5

KMS20 Series

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _T C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS20-30(B)	30	52	31,100	85-28	26-128	104-1,155	6.3	16.8	188
-50(B)	50	82	37,800	13-45	41-202	164-1,822	7.8	16.6	268.6



※ 위 그림은 KMS 20-50(B) 입니다.

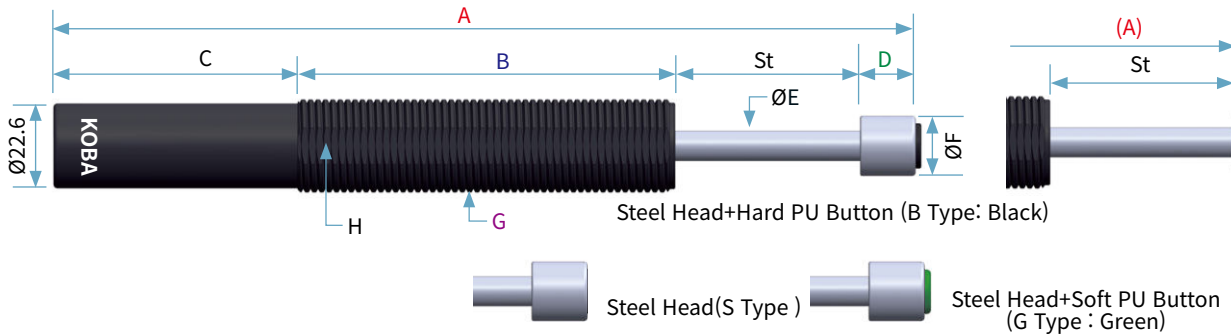
Dimensions (unit : mm)

Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS20-30(B)	30	144.5(131)	90	11	13.5	6	13.5	M20x1.5P	SW:18
-50(B)	50	227.5(214)	91.5	72.5	13.5	6	13.5	M20x1.5P	SW:18

KMS25 Series

Engineering Data

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _r C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS25-40(B)	40	110	94,000	18-60	55-271	220-2,444	13.7	30.9	342.5
-50(B)	50	120	41,000	19-66	60-296	240-2,666	13.9	30.5	457.5
-80(B)	80	160	54,200	26-88	80-395	320-3,555	14.9	29.8	577.5



Dimensions (unit : mm)

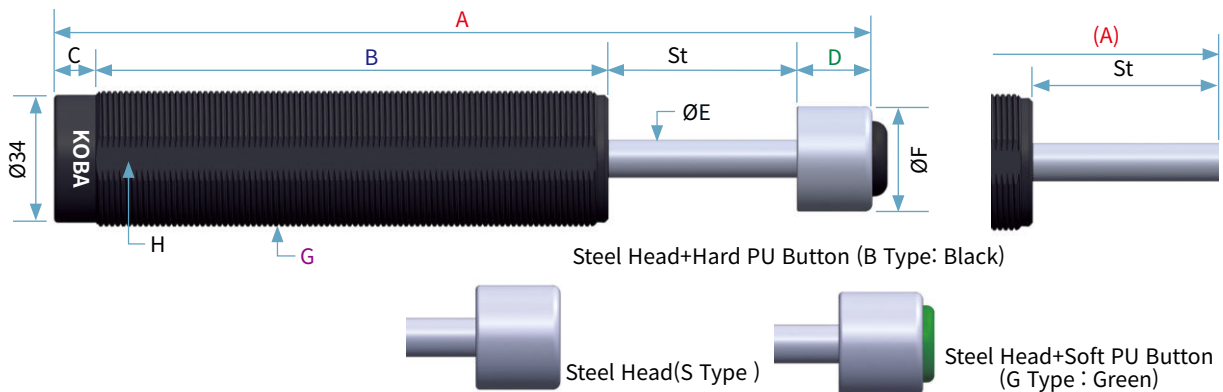
Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS25-40(B)	40	174.5(158)	106	12	16.5	8	16	M25x2.0P	SW:23
-50(B)	50	234.5(218)	102	66	16.5	8	16	M25x2.0P	SW:23
-80(B)	80	328.5(312)	142	90	16.5	8	16	M25x2.0P	SW:23

KMS36 Series

Engineering Data

(unit : mm)

Model	Stroke (mm) St	Max.Energy /Cycle(Nm) E _T	Max.Energy /Hour(Nm/h) E _r C	Effective Weight(kg) m _e			Recoil Force (N)		Weight (g)
				1	2	3	Ext.	Comp.	
KMS36-50(B)	50	220	162,000	35-121	110-543	440-4,888	24.4	44.6	994
-80(B)	80	340	232,800	55-188	170-839	680-7,555	25.4	45.6	1,280

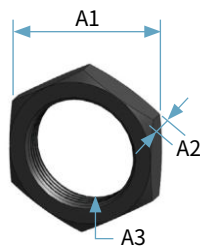


Dimensions (unit : mm)

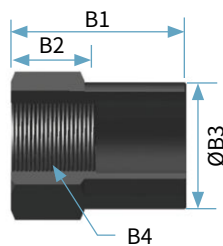
Model	St	A(A)	B	C	D	ØE	ØF	G	H
KMS36-50(B)	50	221(197)	136	11	24	10	28	M36x1.5P	SW:34
-80(B)	80	352(328)	237	11	24	10	28	M36x1.5P	SW:34

KMS Series Self Compensating Type

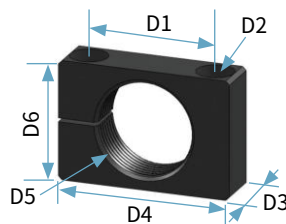
KMS Accessories



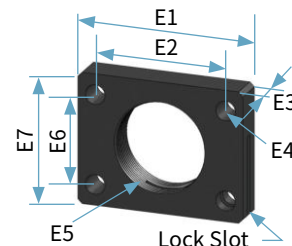
Lock Nut



Stop Collar



Clamp Mount





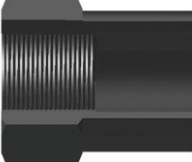
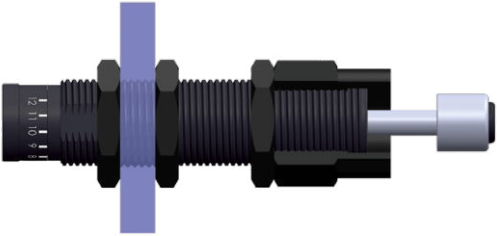

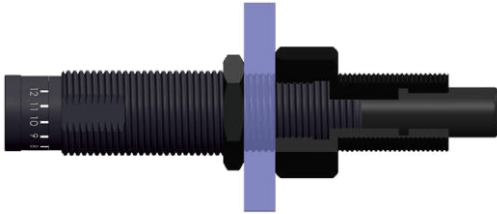

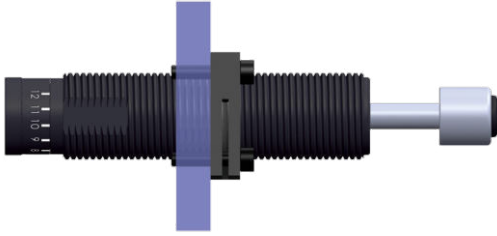
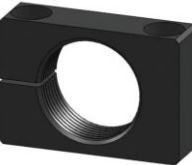

Rectangular Flange

(unit : mm)

Accessory Model	Lock Nut			Stop Collar			
	A1	A2	A3	B1	B2	ØB3	B4
KMS 05-05	8	5	M5X0.5P	10	-	7	M5X0.5P
KMS 06-05	8	5	M6X0.5P	12	-	8	M6X0.5P
KMS 08-06	12	3	M8X1.0P	20	8	11.5	M8X1.0P
KMS 10-08	13	4	M10X1.0P	20	8	12.8	M10X1.0P
KMS 12-10	14	4	M12X1.0P	20	8	13.8	M12X1.0P
KMS 14-15	19	5	Thread	27	12	18	Thread
-20			M14X1.0P				M14X1.0P
KMS 20-20	24	6	M20X1.5P	36	15	24	M20X1.5P
-30							
-50							
KMS 25-25	32	8	Thread	42	18	31.5	Thread
-40	32	8	M20X2.0P	42	18	31.5	M20X2.0P
-50							
-80							
KMS 36-25	46	10	M36X1.5P	62	26	45	M36X1.5P
-50							
-80							

Accessory Model	Clamp Mount						Rectangular Flange						
	D1	D2	D3	D4	D5	D6	E1	E2	E3	E4	E5	E6	E7
KMS 05-05	12	Bolt : M3	8	20	M5X0.5P	10	-	-	-	-	-	-	-
KMS 06-05					M6X0.5P								
KMS 08-06	16	Bolt : M4	10	25	M8X1.0P	14	-	-	-	-	-	-	-
KMS 10-08	16	Bolt : M4	10	25	M10X1.0P	14	-	-	-	-	-	-	-
KMS 12-10	20	Bolt : M5	12	32	M12X1.0P	16	-	-	-	-	-	-	-
KMS 14-15	20	Bolt : M5	12	32	Thread	20	-	-	-	-	-	-	-
-20					M14X1.0P								
KMS 20-20	28	Bolt : M6	20	40	M20X1.5P	25	-	-	-	-	-	-	-
-30													
-50													
KMS 25-25	32	Bolt : M6	25	46	Thread	32	-	-	-	-	-	-	-
-40	32	Bolt : M6	25	46	M25X2.0P	32	-	-	-	-	-	-	-
-50													
-80													
KMS 36-25	45	Bolt : M6	25	61	M36X1.5P	42	51	41	10	4-Ø7	M36X1.5P	29	45
-50													
-80													

KMS Accessories Installation

NAME	Accessories	Installation	Remark
Lock Nut			As a basic mounting way, by using Lock nut, shock absorber can be installed easily.
Stop Collar + Lock Nut			Stop Collar makes it easy to stop precisely and easy to select location to set and it prevents troubles so called bottom-out(piston shooting) problem in the position.
Side Load Adapter + Lock Nut			Main application is rotational motion control, and when the center distance of the shock absorber is inevitably short, it it can helps to prevents one sided wear trouble of Shock Absorber Piston Rod.
Flange Mount			By using Flange or Rectangular Flange, Shock Absorber can be fixed conveniently.
Clamp Mount			By Clamp Mount location adjustment and installation are easy. It is possible to mount it on single side or both sides of shock absorber.