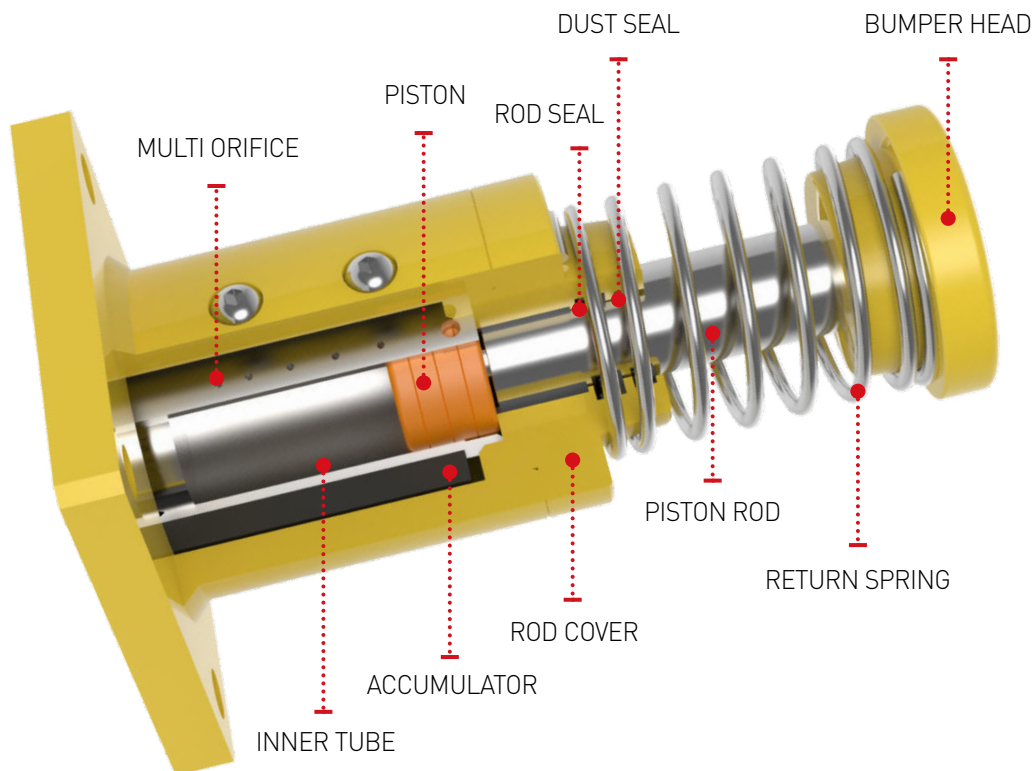


KHS Series Hydraulic Buffer

When the moving load is collided to bumper head, the piston rod enters inner tube according to stroke and check valve is closed with the oil chamber compressed. The oil in chamber is absorbed the impact force by discharging through multiple orifice.

After absorption of impact force, compressed piston rod is returned to original position by external return spring.



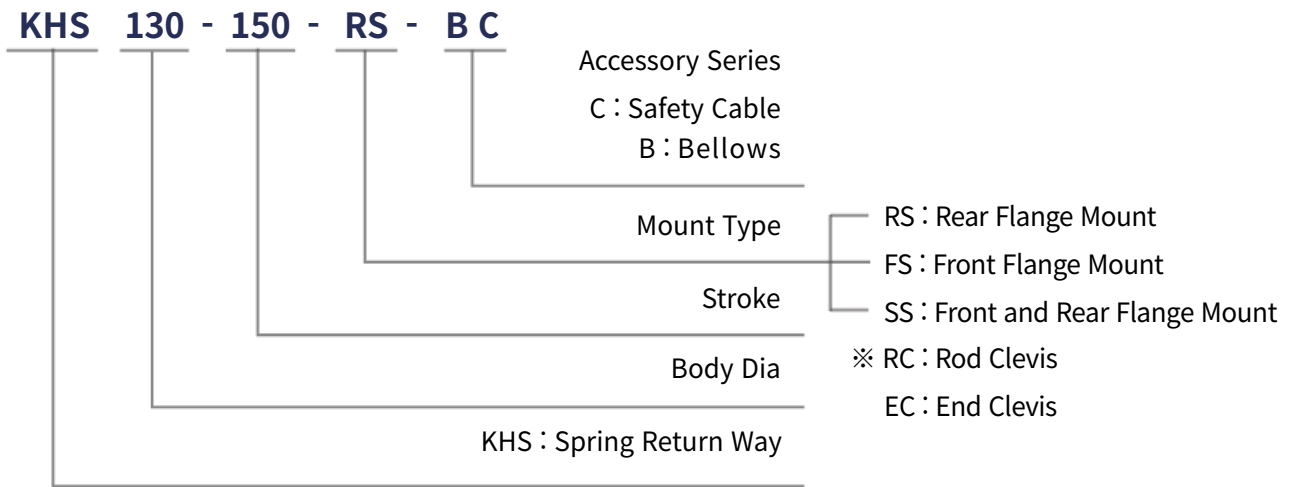
Feature

- As heavy buffer products, it optimized by customized orifices to develop high decelerate efficiencies. It is proper to apply emergency & production lines which requires repeat movements. It meets global industrial safety standards like OSHA, AIST, CMAA, DIN, FEM, etc.
- Adjustment type : Self adjustment type
- Applied fluid : Oil
- Temperature ranges : Standard (-10~80°C), Special (-30~100°C)
- Return mediator : Coil Return Spring
- Piston Rod : Hard Chrome (25µm or more)
- Body and Mount : Epoxy Paint Coatings

Application

- ✓ STS crane, Goliath crane, Stacker crane, Transfer car, Amusement park, Railway, Steel mill and all other areas of multi purposes.

KHS Series Ordering Information



Hydraulic Buffer

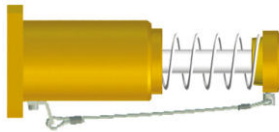
Accessory



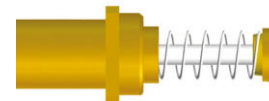
Bellows Cover



Clevis Mounting



Front & Rear Safety Cable



Front Mount

Special Order

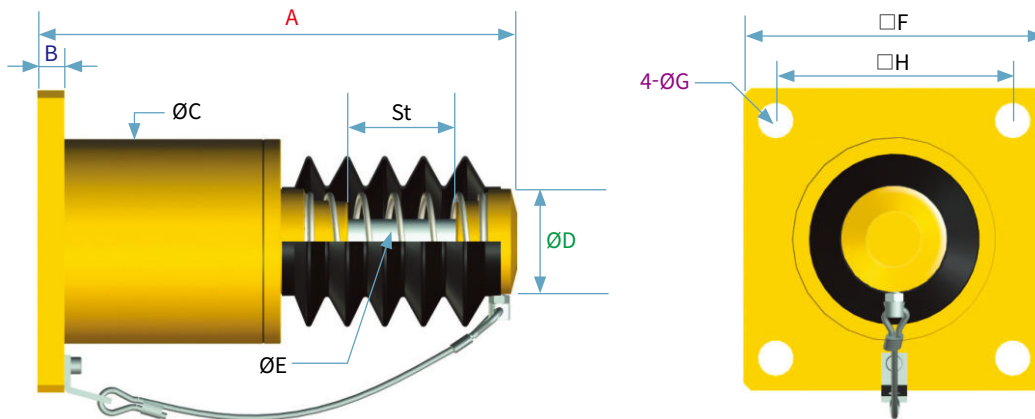
- Temperature : -30~100°C
- Special Coatings
- Body Chrome Plating
- Stainless Steel

KHS Series Hydraulic Buffer

KHS64, 90, 100 Series

Engineering Data

Model	Stroke (mm) St	Max. Energy / Cycle (kJ) E_T	Max Buffer Force (kN) F_S	Recoil Force(N)		Max Side Load Angle(°)	Weight (kg)
				Ext	Comp		
KHS 64-50	50	0.5	12.5	6.5	14.8	3	3
KHS 90-50	50	4	100	14.2	30.5	3	6
75	75	6	100	10.5	19	3	7
-100	100	8	100	9.9	42	3	8
KHS 100-50	50	4.4	110	14.2	30.5	3	6
-100	100	8.8	110	9.9	42	3	8



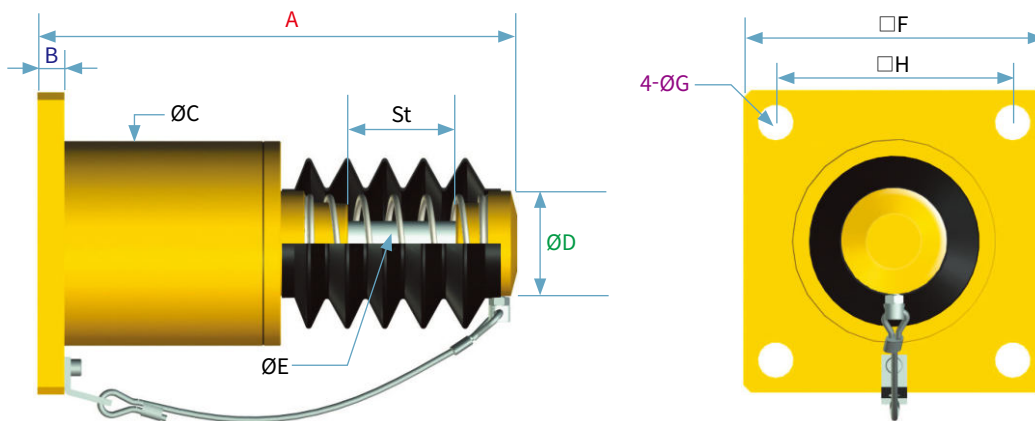
Dimensions (unit : mm)

Model	Stroke (mm) St	A	B	ØC	ØD	ØE (Rod)	F	4-ØG	H
KHS64 - 50	50	200	12	64	56	20	90	4-Ø11	65
KHS90 - 50	50	240	16	90	78	30	130	4-Ø14	100
-75	75	280	16	90	78	30	130	4-Ø14	100
-100	100	360	16	90	78	30	130	4-Ø14	100
KHS100 - 50	50	240	16	100	84	30	130	4-Ø14	100
-100	100	340	16	100	84	30	130	4-Ø14	100

KHS130, 170, 190 Series

Engineering Data

Model	Stroke (mm) St	Max. Energy / Cycle (kJ) E_T	Max Buffer Force (kN) F_S	Recoil Force(N)		Max Side Load Angle(°)	Weight (kg)
				Ext	Comp		
KHS 130-70	70	10	179	18.2	42.5	3	14
-100	100	15	188	17.8	48	3	16
-150	150	21	175	18.3	53.5	2.5	20
KHS 170-80	80	22	340	18.2	44.3	3	27
-150	150	41	340	18.3	53.5	2	36
KHS 190-100	100	40	500	17.8	48	2.5	40
-150	150	60	500	18.3	53.5	2	47



Dimensions (unit : mm)

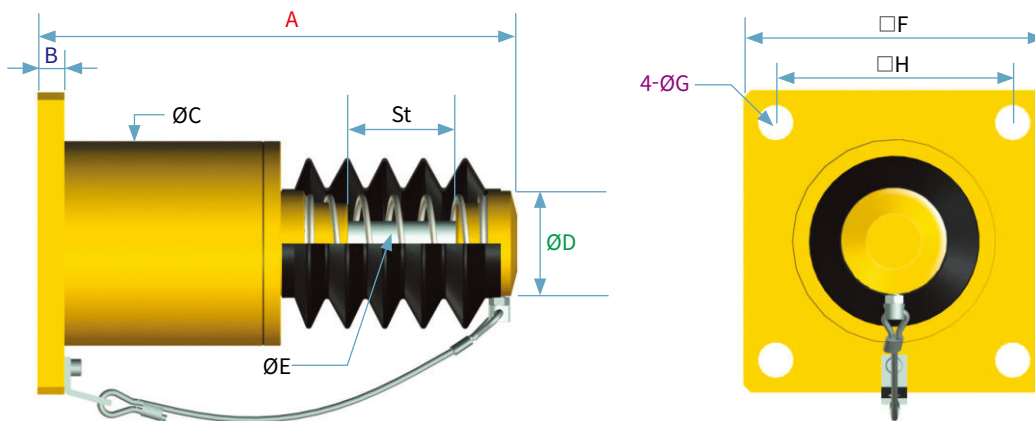
Model	Stroke (mm) St	A	B	ØC	ØD	ØE (Rod)	F	4-ØG	H
KHS130 - 70	70	290	19	130	98	Ø35	170	4-Ø22	130
-100	100	350	19	130	98	Ø35	170	4-Ø22	130
-150	150	490	19	130	98	Ø35	170	4-Ø22	130
KHS170 - 80	80	360	22	170	98	Ø50	220	4-Ø26	170
-150	150	500	22	170	98	Ø50	220	4-Ø26	170
KHS190 - 100	100	440	25	190	98	Ø50	280	4-Ø33	220
-150	150	540	25	190	98	Ø50	280	4-Ø33	220

KHS Series Hydraulic Buffer

KHS220, 250 Series

Engineering Data

Model	Stroke (mm) St	Max. Energy / Cycle (kJ) E _T	Max Buffer Force (kN) F _S	Recoil Force(N)		Max Side Load Angle (°)	Weight (kg)
				Ext	Comp		
KHS 220-100	100	44	550	40.5	134	2.5	49
-150	150	66	550	41.8	131	2	57
KHS 250-100	100	60	750	38.5	111.2	2.5	73
-150	150	90	750	34.2	107.5	2	96
-200	200	120	750	33	105	2	108
-300	300	180	750	38	121.8	2	117



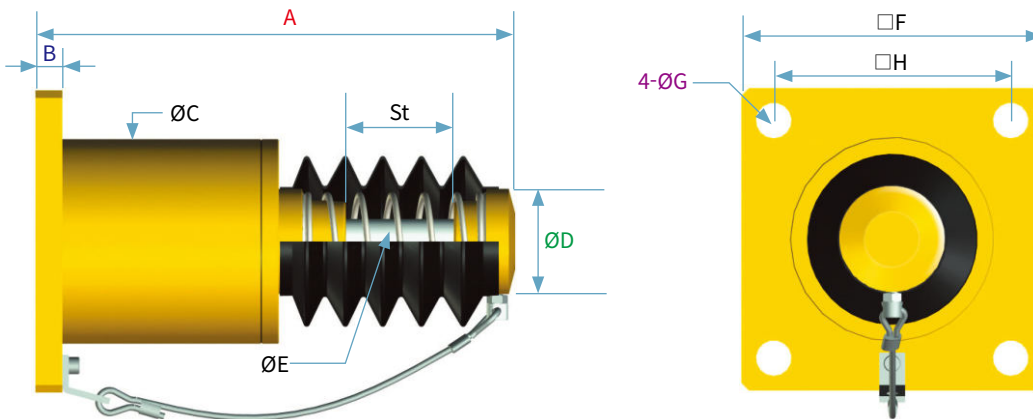
Dimensions (unit : mm)

Model	Stroke (mm) St	A	B	ØC	ØD	ØE (Rod)	□F	4-ØG	□H
KHS220 - 100	100	440	25	220	116	60	280	4-Ø33	220
-150	150	540	25	220	116	60	280	4-Ø33	220
KHS250 - 100	100	480	32	250	138	70	320	4-Ø33	250
-150	150	650	32	250	158	70	320	4-Ø33	250
-200	200	750	32	250	158	70	320	4-Ø33	250
-300	300	880	32	250	158	70	320	4-Ø33	250

KHS300, 340, 360 Series

Engineering Data

Model	Stroke (mm) St	Max. Energy / Cycle (kJ) E _T	Max Buffer Force (kN) F _s	Recoil Force(N)		Max Side Load Angle (°)	Weight (kg)
				Ext	Comp		
KHS 300-150	150	117	975	46	142	2	139
-250	250	180	1,125	45	151	1.5	170
KHS 340-200	200	200	1,250	51	162	1.5	208
-300	300	300	1,250	49	176	1.5	240
KHS 360-250	250	294	1,470	68	178	1.5	267
-400	400	470	1,470	64	182	1.5	319



Dimensions (unit : mm)

Model	Stroke (mm) St	A	B	ØC	ØD	ØE (Rod)	□F	4-ØG	□H
KHS300 - 150	150	650	36	300	170	80	400	4-Ø33	300
-250	250	850	36	300	170	80	400	4-Ø33	300
KHS340 - 200	200	800	45	340	228	100	440	4-Ø39	340
-300	300	1,000	45	340	228	100	440	4-Ø39	340
KHS360 - 250	250	900	45	356	280	100	460	4-Ø39	360
-400	400	1,200	45	356	280	100	460	4-Ø39	360