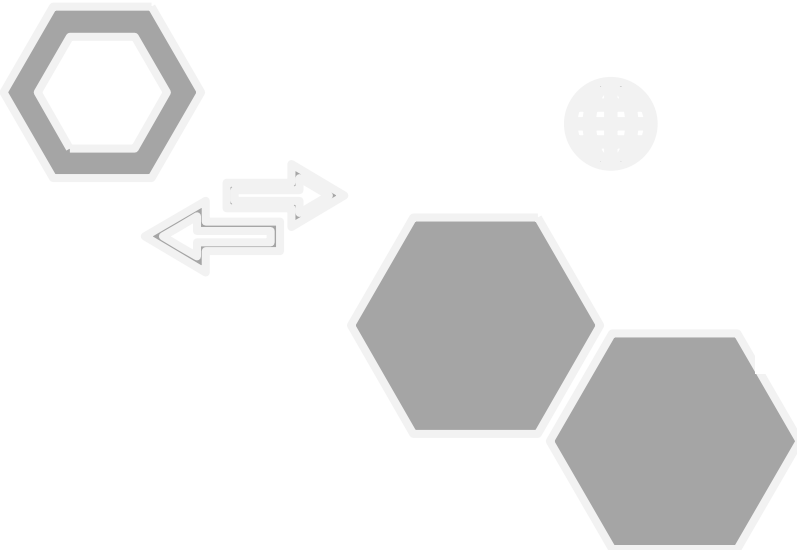
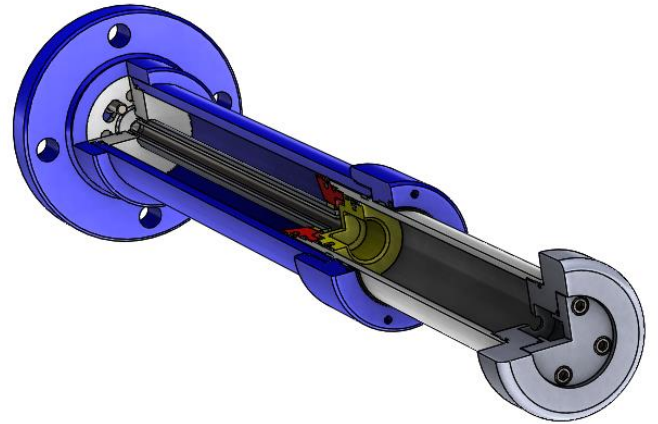


## HYDRAULIC BUFFERS



**Effective Control**  
For Industrial Applications

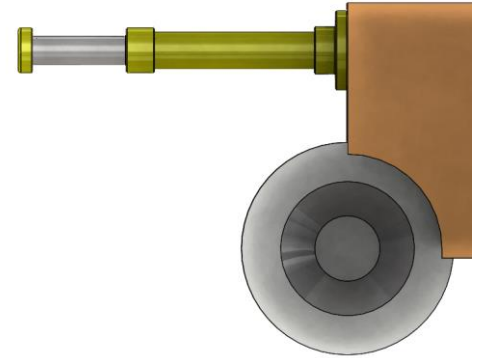
# TECHNICAL PROPERTIES

## GENERAL

ADJUSTMENT	/ SELF ADJUSTING TYPE
INSTALLATION	/ REAR MOUNT (RM) / FRONT MOUNT (FM)
FILLING	/ OIL / NITROGEN
TEMPERATURE	/ -10 C TO +80 C (STANDARD) / -40 C TO +120 C (SPECIAL)
PISTON ROD	/ PLASMA COATING (20 μ)
APPLICATION	/ OVERHEAD CRANES / CONTAINER CRANES / STACKER CRANES / TRANSFER CARS / RAILWAY APPLICATIONS

## COATING

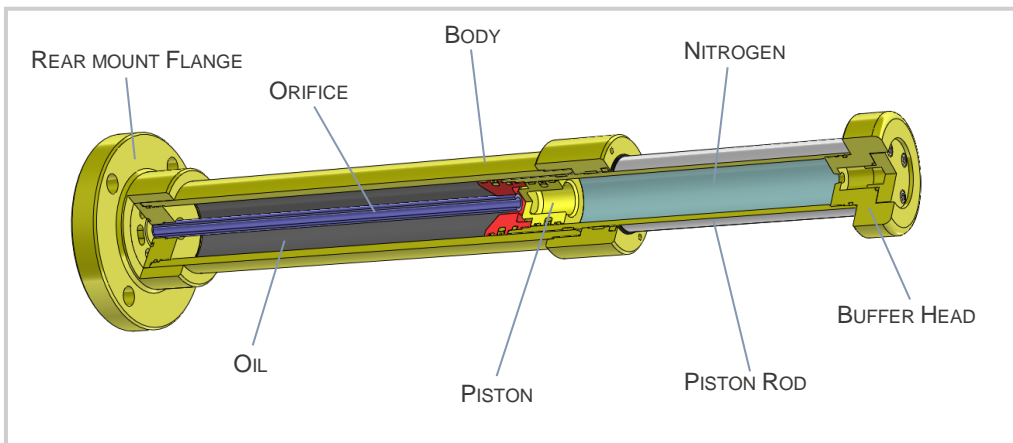
BODY	/ SYNTHETIC RESIN / COLOR OPTIONAL / 80 μM
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Crash effect is a physical factor to be avoided in mechanical structures. Energy that cannot be damped through cranes working with high kinetic energy and other rail transport systems leads to crashes and therefore, to damages in the mechanical structure, and thus significantly decreases the fatigue life of the steel structures.

Buffers used to damp the energy resulting from the crash in rail transport systems and crane systems working with various load capacities and in different velocities are very important for prolong the life of the transport system and for the security.

GL Machinery Ltd. co. Provides solutions for damping through estimations and designs in line with the related standards and international technical reports, based on the information presented by the customer. It is possible to manufacture two types of buffers as spring supported and hydraulic as well as many variations according to energy buffering capacities, strokes and connection types. In the selection of buffers, it is important to prefer the buffers with optimum values by determining the right spring and buffering coefficient.



## CHOOSING A TRUE BUFFERING COMPONENT

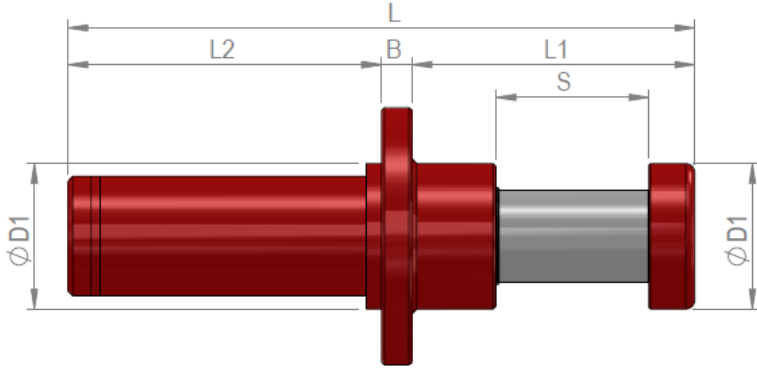
. increases the fatigue life of the steel structure.

## BEST WAY TO MODERNIZATION

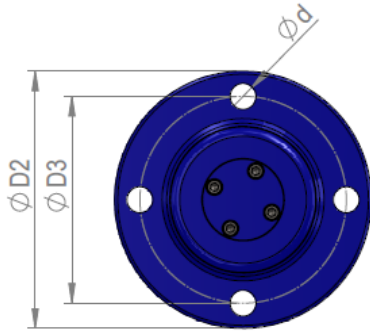
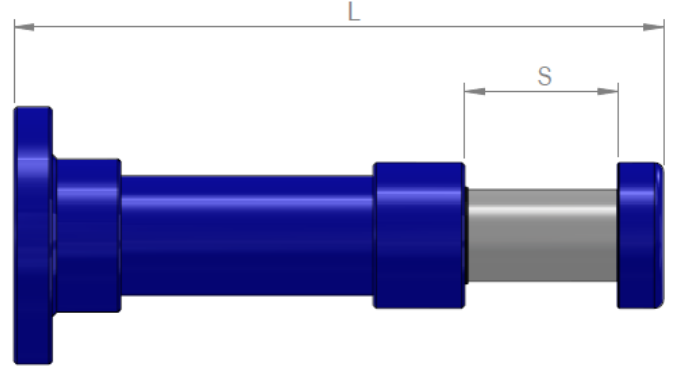
If you transmit to us technical details, we able to choose right buffering system to solve the crash problem.

SIZE 063

TYPE FM



TYPE RM



SAMPLE PRODUCT ID

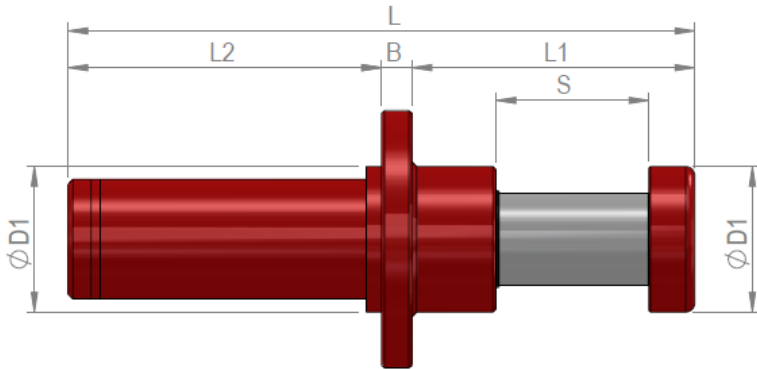
GLHB063100-RM

TYPE  
STROKE  
SIZE

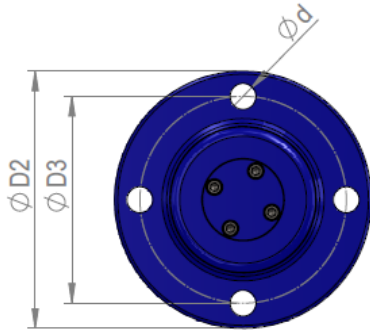
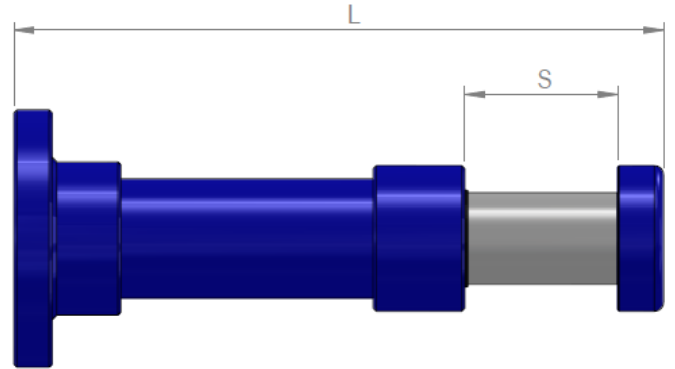
	S "mm"	L "mm"	L1 "mm"	L2 "mm"	B "mm"	D1 "mm"	D2 "mm"	D3 "mm"	d "mm"	W Capacity/Stroke "kJ"	F Buffering Force "kN"
GLHB 063 050	50	335	152	163	20	95	168	135	17	7	170
GLHB 063 100	100	445	202	223	20	95	168	135	17	15	170
GLHB 063 150	150	560	252	288	20	95	168	135	17	23	170
GLHB 063 200	200	672	302	350	20	95	168	135	17	30	170
GLHB 063 250	250	785	352	413	20	95	168	135	17	38	170
GLHB 063 300	300	897	402	475	20	95	168	135	17	46	170
GLHB 063 350	350	1010	452	538	20	95	168	135	17	51	160
GLHB 063 400	400	1122	502	600	20	95	168	135	17	54	150
GLHB 063 450	450	1235	552	663	20	95	168	135	17	57	140
GLHB 063 500	500	1347	602	725	20	95	168	135	17	59	130
GLHB 063 550	550	1460	652	788	20	95	168	135	17	60	120
GLHB 063 600	600	1572	702	850	20	95	168	135	17	60	110
GLHB 063 650	650	1685	752	913	20	95	168	135	17	59	100
GLHB 063 700	700	1797	802	975	20	95	168	135	17	57	90
GLHB 063 750	750	1910	852	1038	20	95	168	135	17	54	80
GLHB 063 800	800	2022	902	1100	20	95	168	135	17	51	70

SIZE 080

TYPE FM



TYPE RM



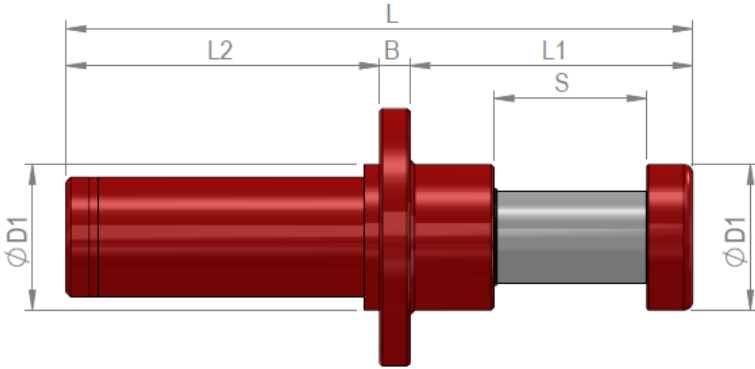
SAMPLE PRODUCT ID  
GLHB063100-RM

TYPE  
STROKE  
SIZE

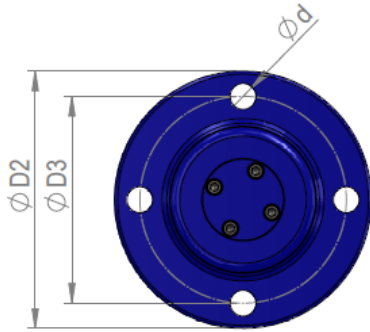
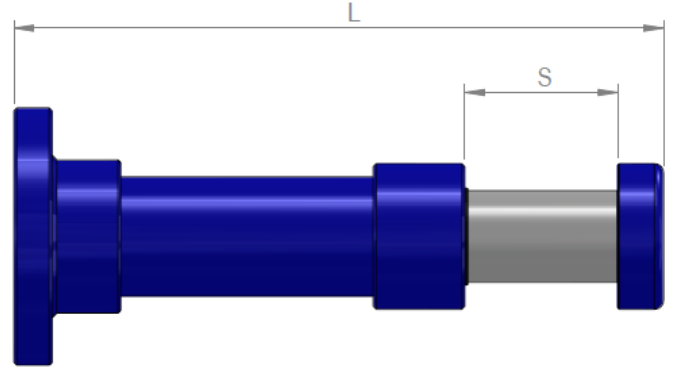
	S "mm"	L "mm"	L1 "mm"	L2 "mm"	B "mm"	D1 "mm"	D2 "mm"	D3 "mm"	d "mm"	W Capacity/Stroke "kJ"	F Buffering Force "kN"
GLHB 080 050	50	390	160	205	25	118	198	165	17	11	260
GLHB 080 100	100	502	210	267	25	118	198	165	17	23	260
GLHB 080 150	150	615	260	330	25	118	198	165	17	35	260
GLHB 080 200	200	727	310	392	25	118	198	165	17	48	260
GLHB 080 250	250	840	360	455	25	118	198	165	17	59	260
GLHB 080 300	300	952	410	517	25	118	198	165	17	68	250
GLHB 080 350	350	1065	460	580	25	118	198	165	17	76	240
GLHB 080 400	400	1177	510	642	25	118	198	165	17	84	230
GLHB 080 450	450	1290	560	705	25	118	198	165	17	90	220
GLHB 080 500	500	1402	610	767	25	118	198	165	17	95	210
GLHB 080 550	550	1515	660	830	25	118	198	165	17	100	200
GLHB 080 600	600	1627	710	892	25	118	198	165	17	104	190
GLHB 080 650	650	1740	760	955	25	118	198	165	17	106	180
GLHB 080 700	700	1852	810	1017	25	118	198	165	17	108	170
GLHB 080 750	750	1965	860	1080	25	118	198	165	17	109	160
GLHB 080 800	800	2077	910	1142	25	118	198	165	17	109	150
GLHB 080 900	900	2190	960	1205	25	118	198	165	17	106	130
GLHB 080 1000	1000	2302	1010	1267	25	118	198	165	17	100	110

SIZE 100

TYPE FM



TYPE RM



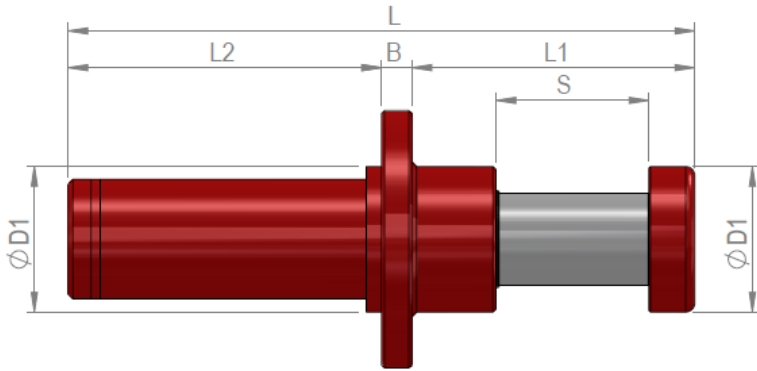
SAMPLE PRODUCT ID  
GLHB063100-RM

TYPE  
STROKE  
SIZE

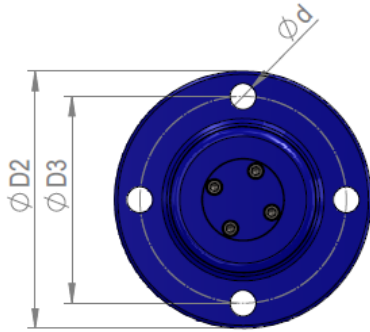
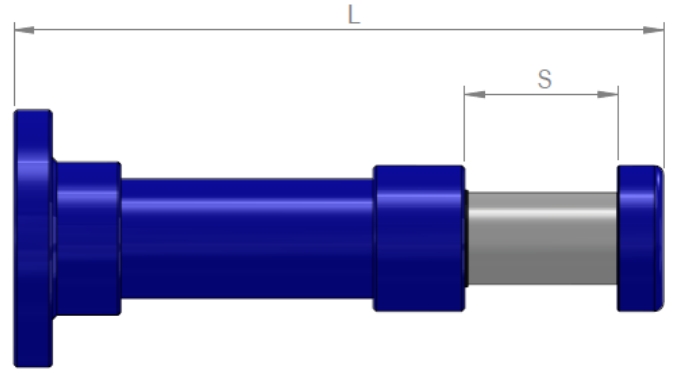
	S "mm"	L "mm"	L1 "mm"	L2 "mm"	B "mm"	D1 "mm"	D2 "mm"	D3 "mm"	d "mm"	W Capacity/Stroke "kJ"	F Buffering Force "kN"
GLHB 100 100	100	518	207	281	30	138	258	210	23	38	420
GLHB 100 150	150	631	257	344	30	138	258	210	23	58	420
GLHB 100 200	200	743	307	406	30	138	258	210	23	78	420
GLHB 100 250	250	858	357	471	30	138	258	210	23	98	420
GLHB 100 300	300	968	407	531	30	138	258	210	23	115	420
GLHB 100 350	350	1081	457	594	30	138	258	210	23	132	420
GLHB 100 400	400	1193	507	656	30	138	258	210	23	148	410
GLHB 100 450	450	1306	557	719	30	138	258	210	23	161	400
GLHB 100 500	500	1418	607	781	30	138	258	210	23	175	390
GLHB 100 550	550	1531	657	844	30	138	258	210	23	190	380
GLHB 100 600	600	1644	707	907	30	138	258	210	23	200	370
GLHB 100 650	650	1756	757	969	30	138	258	210	23	210	360
GLHB 100 700	700	1869	807	1032	30	138	258	210	23	220	350
GLHB 100 750	750	1981	857	1094	30	138	258	210	23	230	340
GLHB 100 800	800	2094	907	1157	30	138	258	210	23	240	330
GLHB 100 900	900	2206	957	1219	30	138	258	210	23	245	300
GLHB 100 1000	1000	2319	1007	1282	30	138	258	210	23	245	270

SIZE 125

TYPE FM



TYPE RM



SAMPLE PRODUCT ID  
GLHB063100-RM

TYPE  
STROKE  
SIZE

	S "mm"	L "mm"	L1 "mm"	L2 "mm"	B "mm"	D1 "mm"	D2 "mm"	D3 "mm"	d "mm"	W Capacity/Stroke "kJ"	F Buffering Force "kN"
GLHB 125 100	100	525	204	286	35	175	300	245	27	60	670
GLHB 125 150	150	638	254	349	35	175	300	245	27	91	670
GLHB 125 200	200	750	304	411	35	175	300	245	27	121	670
GLHB 125 250	250	863	354	474	35	175	300	245	27	154	670
GLHB 125 300	300	975	404	536	35	175	300	245	27	185	670
GLHB 125 350	350	1087	454	603	35	175	300	245	27	215	670
GLHB 125 400	400	1200	504	661	35	175	300	245	27	248	670
GLHB 125 450	450	1312	554	723	35	175	300	245	27	275	650
GLHB 125 500	500	1425	604	786	35	175	300	245	27	301	650
GLHB 125 550	550	1537	654	848	35	175	300	245	27	325	630
GLHB 125 600	600	1650	704	911	35	175	300	245	27	351	630
GLHB 125 650	650	1762	754	973	35	175	300	245	27	377	630
GLHB 125 700	700	1875	804	1036	35	175	300	245	27	393	610
GLHB 125 750	750	1987	854	1098	35	175	300	245	27	414	610
GLHB 125 800	800	2100	904	1161	35	175	300	245	27	435	590
GLHB 125 900	900	2212	954	1223	35	175	300	245	27	470	570
GLHB 125 1000	1000	2325	1004	1286	35	175	300	245	27	500	550

**We can also customize this values.**

If you need a unique design please contact us.

**For choosing right spring, please transmit us the values listed below.**

<b>Wb</b>	<i>'Dead weight of the Crane'</i>	:	_____
<b>Vb</b>	<i>'Velocity of the Crane'</i>	:	_____
<b>Wt</b>	<i>'Dead weight of the Trolley'</i>	:	_____
<b>Vt</b>	<i>'Velocity of the Trolley'</i>	:	_____



## **GL Makina Ltd. Co.**

Phone : +90 312 395 63 17  
Fax : +90 312 395 64 17

[www.glmakina.com](http://www.glmakina.com)  
[info@glmakina.com](mailto:info@glmakina.com)

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