

# DHB Series

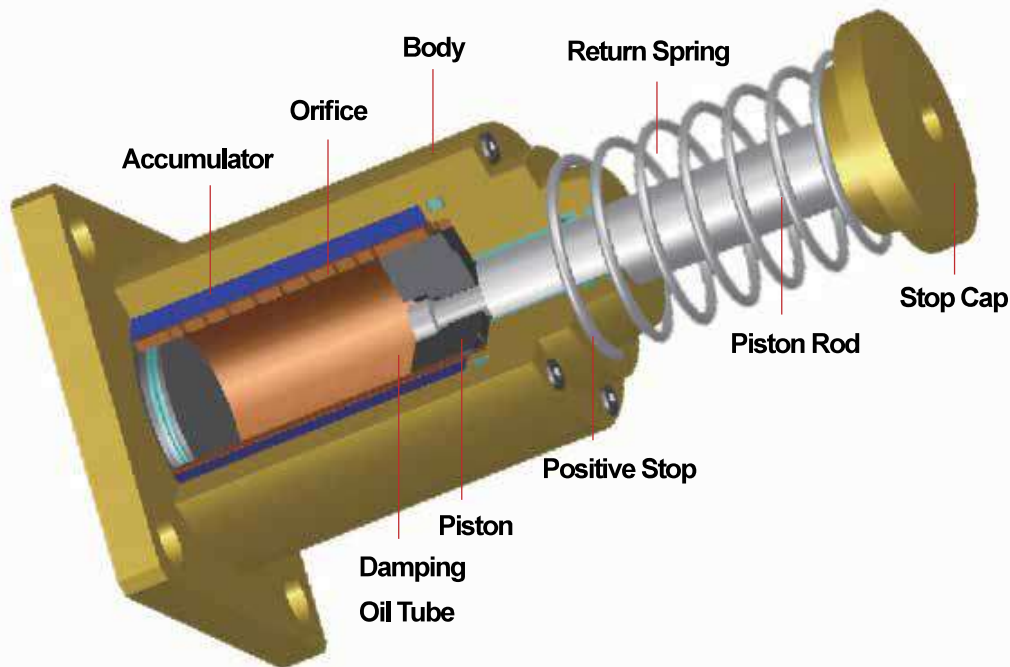
Hydraulic Heavy-Duty Buffers



# DAMPTAC

Industrial Shock Absorber

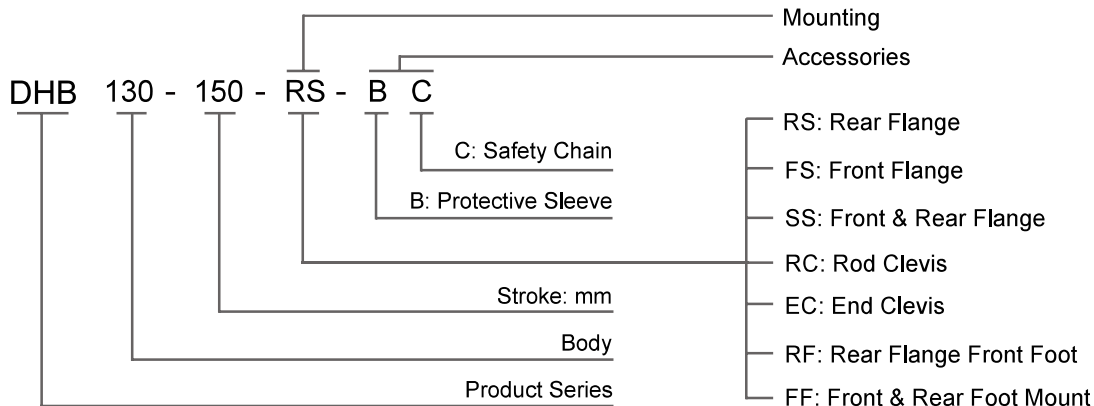
The DHB series is a large heavy-duty buffer. DHB models designs and manufactures multi throttle hole to meet the demand of efficient damping, so as to provide customers with the best damping effect according to the application parameters and requirements of each customer. Compared with the DTH series, DHB series uses a gentler mechanical spring reset, which effectively reduces the peak reset impact force. However, due to the limitations of mechanical spring, the stroke of the DHB series should not be too long. DHB models is suitable for production line and mechanical equipment that require the installation control and repetitive operation control at the same time. The DHB series meets global industrial safety standards, such as OSHA, AISE, CMMA, DIN and FEM.



## Properties

- Type: customized (according to the actual application parameters of the customer).
- Filling: hydraulic oil
- Temperature range: standard type (-10 °C ~ +80°C ), special type (-40°C ~ +120°C)
- Return mode: steel spring
- Surface of piston rod: hard chromium plating
- Body and flange surface: epoxy protective paint (suitable for outdoor environment)
- Applications: widely used in amusement equipment, rail transit, port machinery, cranes, steel manufacturing, paper making machinery, drop hammer and other industries.

## DHB Series Ordering Information



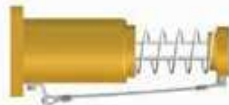
## Accessories and Mount



Protective Sleeve



Clevis Mount



Safety Chain



Front Flange

## Instructions for Use and Maintenance

### Mount Requirements:

1. if the stroke is within 300mm, the side force angle must be controlled within 2 degrees.
2. if the stroke is above 300mm, the side force angle must be controlled within 1 degrees.

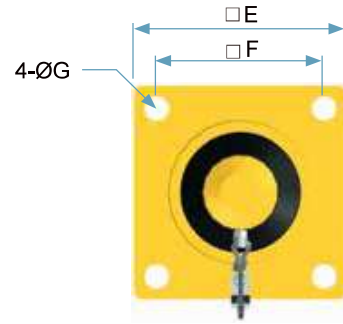
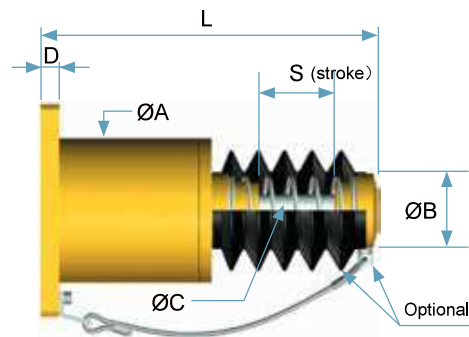
### Maintenance:

If the DHB series is applied to emergency safety protection and frequent impact, it is recommended to check regularly per 3 months.

1. check if the piston rod has scratches; clean the dust and corrosive substances attached to the surface of the piston rod; spray the oil.
2. check if there is oil leakage around the shock absorber, especially around the seal.
3. check if the piston rod can be completely reset.
4. The DHB series is usually used for heavy duty, the bolts and flanges may be loose, so we need to check if there is any loosening of the bolts and nuts.

## Specifications Chart - Hydraulic Heavy-Duty DHB Series

Type	Stroke (mm)	Max. Energy /Cycle (kJ)	Max. Energy /Hour (kJ/H)	Max. Damping Force (kN)	Return Forc (kN)		Max.Side Angle (°)	Weight (kg)
					Ext	Comp		
DHB64-50	50	0.5	10	12.5	65	148	3	3
DHB90-50	50	4	80	100	142	305	3	8.5
	75	6	108	100	105	190	3	9.5
	-100	8	128	100	99	420	3	12
DHB100-50	50	4.4	79	110	142	305	3	14
	-100	8.8	140	110	99	420	3	17
DHB130-70	70	10	170	179	182	425	3	21
	-100	15	270	188	178	480	3	24
	-150	21	294	175	183	535	2.5	28
DHB170-80	80	24	432	375	182	443	3	38
	-150	45	630	375	183	535	2	48
DHB190-100	100	40	720	500	178	480	2.5	52
	-150	60	840	500	183	535	2	64
DHB220-100	100	44	792	550	405	1340	2.5	69
	-150	66	924	550	418	1310	2	76
DHB250-100	100	60	1,080	750	385	1110	2.5	130
	-150	90	1,260	750	342	1080	2	140
	-200	120	1,560	750	330	1050	2	150
	-300	180	2,160	750	380	1220	2	170
DHB300-150	150	117	1,638	975	460	1420	2	186
	-250	180	2,340	1,125	450	1510	1.5	206
	-300	216	2,592	1,200	490	1760	1.5	216
DHB340-200	200	200	2,600	1,250	510	1620	1.5	275
	-300	300	3,600	1,250	490	1760	1.5	305
DHB360-250	250	294	3,822	1,470	680	1780	1.5	324
	-400	470	4,700	1,470	640	1820	1.5	376



### Dimensions Chart - Hydraulic Heavy-Duty DHB Series

Type	Dimensions (Unit: mm)													
	S (Stroke)	L	A	B	C	D	E	F	G					
DHB64-50	50	200	64	42	20	12	90	65	11					
DHB90-50	50	240	90	78	30	16	130	100	14					
-75	75	280	90	78										
-100	100	360	90	78										
DHB100-50	50	240	100	84	35	19	170	130	22					
-100	100	340	100	84										
DHB130-70	70	290	130	98						50	22	220	170	26
-100	100	350	130											
-150	150	490	130											
DHB170-80	80	360	170	98	50	25	280	220	33					
-150	150	500	170											
DHB190-100	100	400	190											
-150	150	540	190	70	32	320	250	33						
DHB220-100	100	440	220						116	60	25	280	220	33
-150	150	540	220						116	60	25	280	220	33
DHB250-100	100	480	250	138	70	32	320	250	33					
-150	150	650	250	158										
-200	200	750	250	158										
-300	300	950	250	158	80	36	400	300	33					
DHB300-150	150	650	300	170										
-250	250	850	300	170										
-300	300	950	300	170	100	45	400	340	39					
DHB340-200	200	800	340	228										
-300	300	1000	340	228										
DHB360-250	250	900	356	280	100	45	460	360	39					
-400	400	1200	356	280										