



# LASTEKO



Flange Alignment

Flange Spreaders

Hydraulic Cylinders

Hydraulic Spreaders

Lifting Wedges

Nut Splitters





















































Hydraulic Pumps



September 20, 2023



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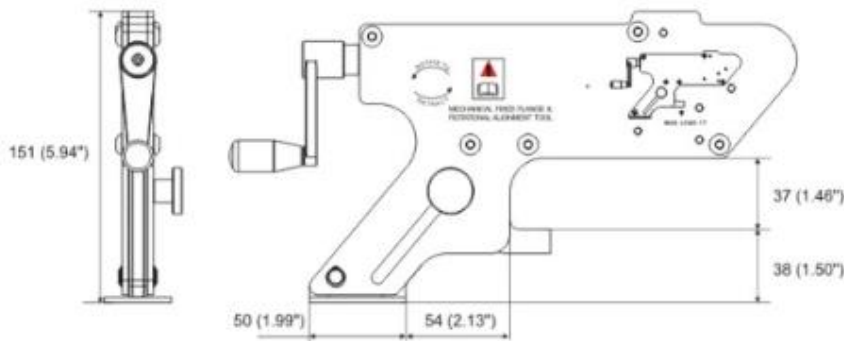
# FA1™ FLANGE ALIGNMENT TOOL

## Specifications

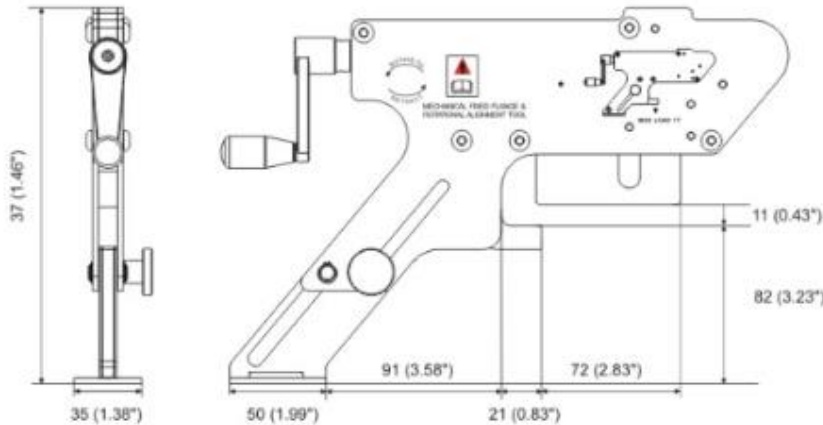
- Max Bolt Size: 16-31.5mm
- Cap: 1-9ton (10-90kN)
- Max Working Pressure: 700bar
- Suitable for offshore and onshore application
- Designed for large diameter high-pressure flanges
- Rectifies linear or rotational misalignment



Minimum extension FA1™ in mm (inch)



Maximum extension FA1™ in mm (inch)



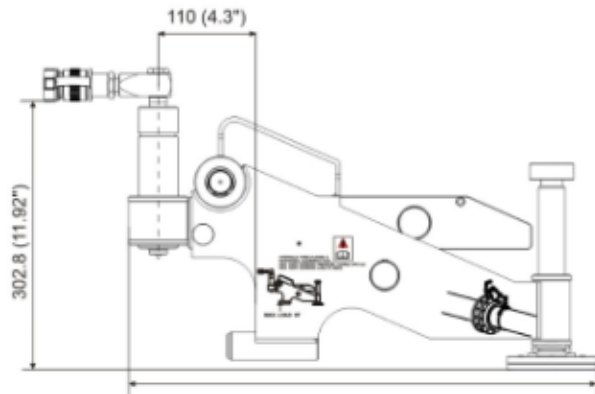
Model	Capacity (Ton/kN)	Operation Type	Min Bolt Size (in/mm)	Flange Thickness (in/mm)	Reaction Force 2 Max (Ton)	Bolt Hole Diameter Min (mm)	Misalignment Min (mm)	N.W (kg)
FA1™	1/10	Mechanical	0.63/16	0.55-3.29/14-82	1	16	0	3
FA4™	4/40	Mechanical	0.95/24	1.18-5.23/30-133	4	25	0	9
FA9™	9/90	Mechanical	1.24/31.5	3.66-9.00/93-228	9	35.5	0	16
FA9TE	9/90	Hydraulic	1.24/31.5	3.66-9.00/93-228	9	35.5	0	16

## Specifications

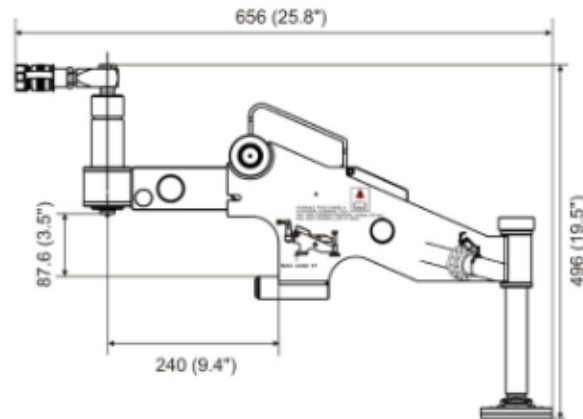
- Max Bolt Size: 16-31.5mm
- Cap: 1-9ton (10-90kN)
- Max Working Pressure: 700bar
- Suitable for offshore and onshore application
- Designed for large diameter high-pressure flanges
- Rectifies linear or rotational misalignment



Minimum extension FA9TE/9TM in mm (inch)



Maximum extension FA9TE/9TM in mm (inch)



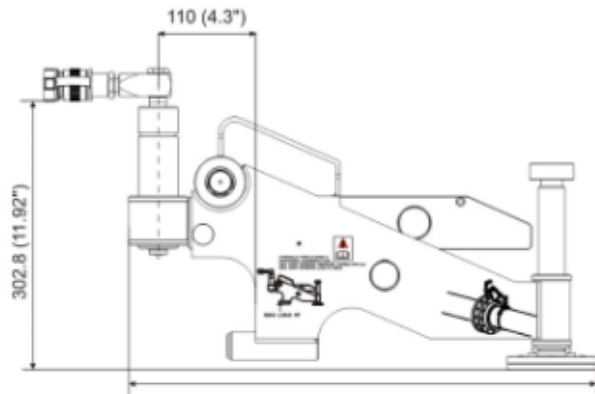
Model	Capacity (Ton/kN)	Operation Type	Min Bolt Size (in/mm)	Flange Thickness (in/mm)	Reaction Force 2 Max (Ton)	Bolt Hole Diameter Min (mm)	Misalignment Min (mm)	N.W (kg)
FA1TM	1/10	Mechanical	0.63/16	0.55-3.29/14-82	1	16	0	3
FA4TM	4/40	Mechanical	0.95/24	1.18-5.23/30-133	4	25	0	9
FA9TM	9/90	Mechanical	1.24/31.5	3.66-9.00/93-228	9	35.5	0	16
FA9TE	9/90	Hydraulic	1.24/31.5	3.66-9.00/93-228	9	35.5	0	16

## Specifications

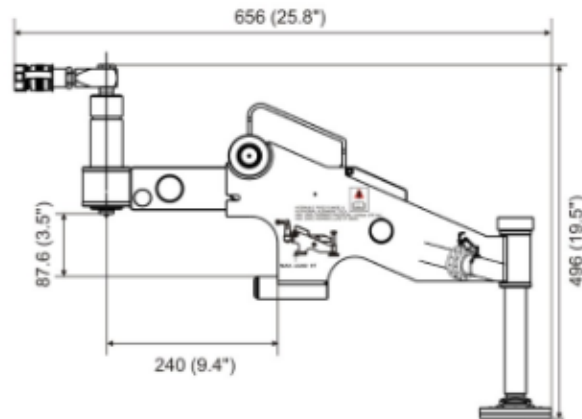
- Max Bolt Size: 16-31.5mm
- Cap: 1-9ton (10-90kN)
- Max Working Pressure: 700bar
- Suitable for offshore and onshore application
- Designed for large diameter high-pressure flanges
- Rectifies linear or rotational misalignment



Minimum extension FA9TE/9TM in mm (inch)



Maximum extension FA9TE/9TM in mm (inch)



Model	Capacity (Ton/kN)	Operation Type	Min Bolt Size (in/mm)	Flange Thickness (in/mm)	Reaction Force 2 Max (Ton)	Bolt Hole Diameter Min (mm)	Misalignment Min (mm)	N.W (kg)
FA1TM	1/10	Mechanical	0.63/16	0.55-3.29/14-82	1	16	0	3
FA4TM	4/40	Mechanical	0.95/24	1.18-5.23/30-133	4	25	0	9
FA9TM	9/90	Mechanical	1.24/31.5	3.66-9.00/93-228	9	35.5	0	16
FA9TE	9/90	Hydraulic	1.24/31.5	3.66-9.00/93-228	9	35.5	0	16

# FS SERIES HYDRAULIC FLANGE SPREADER

Specifications

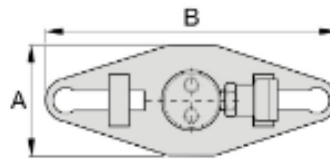
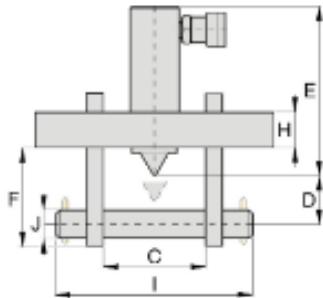
Inquiry


Light weight, easy to operate

Compact and ergonomic design

Adjustable jaw size from 70mm to 216mm

Single-acting, spring return



Maximum Flange Thickness (mm)	Stud Size (mm)	Standard Wedge (mm)	Capacity (ton)	Stroke (mm)	Oil Capacity (cm <sup>3</sup> )	Model Number	Dimensions (mm)										 (kg)
							A	B	C		D	E	F	H	I	J	
									Min.	Max.							
2 x 57	19 - 28	3 - 28	5	38	24.6	FS-56	76	209	70	155	32	196	88	25	206	19	11.5
2 x 92	31 - 41	3 - 28	10	54	78.7	FS-109	108	279	104	216	50	152	114	38	273	31	18.1

# FS SERIES INTEGRAL FLANGE SPREADER

Specifications

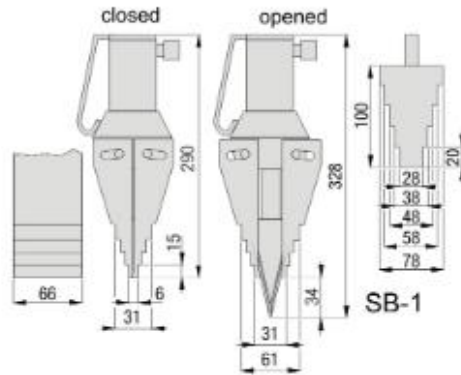
Inquiry

- Cylinder built-in
- No need extral pump and hose
- Working simple and quick

Model	Cap (ton/kn)	Tip Clearance (mm)	Min/Max Spread (mm)	Weight (kg)
FS-108	8/80	3	90-220	6



- Requires access gap of only 6 mm
- Portable tools to safely spread flange joints
- Few moving parts mean durability and low maintenance
- Available for both mechanical and hydraulic options



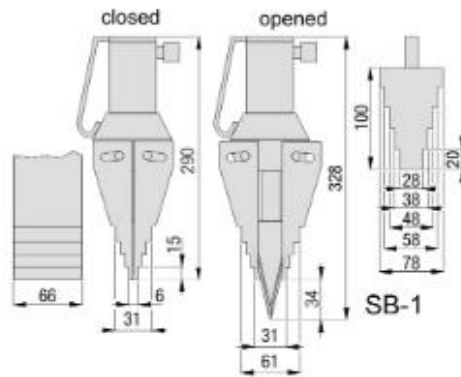
Max Force(ton)	Model	Max Spread (mm)	Tip Clearance (mm)	Spreader Type	Oil Cap (cm <sup>3</sup> )	W (kg)
8	FSM-8	81	6	Mechanical	/	8
14	FSH-14	81	6	Hydraulic	78	9
14	FSH-14H	81	6	Hydraulic	156	38



Specifications

Inquiry

- Requires access gap of only 6 mm
- Portable tools to safely spread flange joints
- Few moving parts mean durability and low maintenance
- Available for both mechanical and hydraulic options



Max Force(ton)	Model	Max Spread (mm)	Tip Clearance (mm)	Spreader Type	Oil Cap (cm <sup>3</sup> )	W (kg)
8	FSM-8	81	6	Mechanical	/	8
14	FSH-14	81	6	Hydraulic	78	9
14	FSH-14H	81	6	Hydraulic	156	38

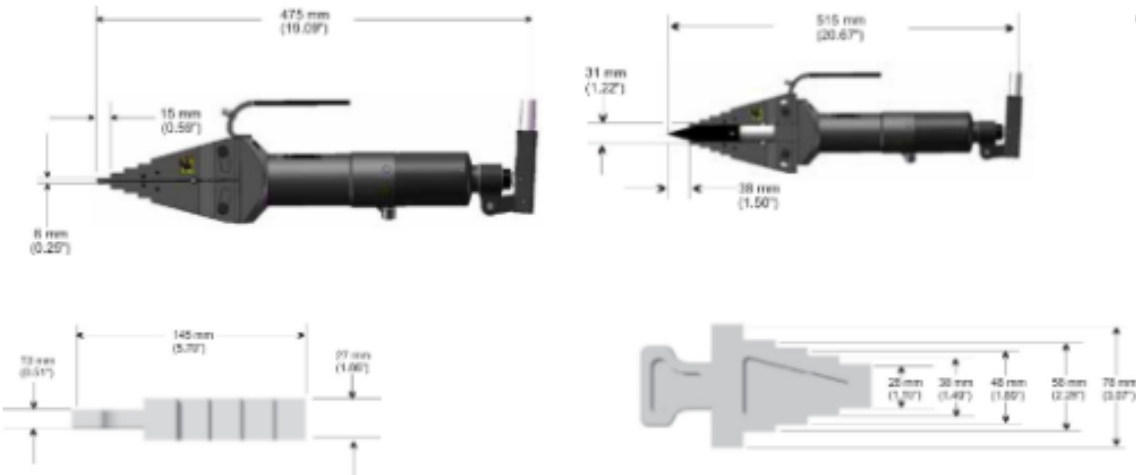


# FSH-15 FLANGE SPREADER

Specifications

Inquiry

- Portable and compact design
- No need extra hose and pump

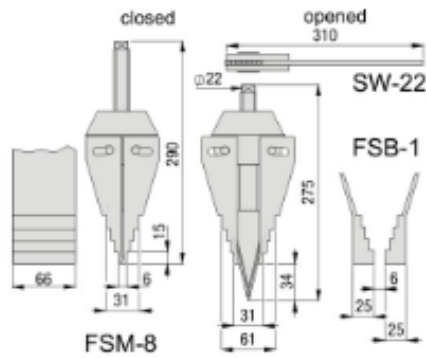


Max Force(ton)	Model	Max Spread (mm)	Tip Clearance (mm)	Spreader Type	Oil Cap (cm <sup>3</sup> )	W (kg)
14	FSH-15	81	6	Hydraulic	78	10

Specifications

Inquiry

- Few moving parts mean durability and low maintenance
- Requires access gap of only 6 mm
- Portable tools to safely spread flange joints
- Available for both mechanical and hydraulic options



Max Force(ton)	Model	Max Spread (mm)	Tip Clearance (mm)	Spreader Type	Oil Cap (cm <sup>3</sup> )	W (kg)
8	FSM-8	81	6	Mechanical	/	8
14	FSH-14	81	6	Hydraulic	78	9
14	FSH-14H	81	6	Hydraulic	156	38



# FSW14TM FLANGE SPREADER

Specifications

Inquiry

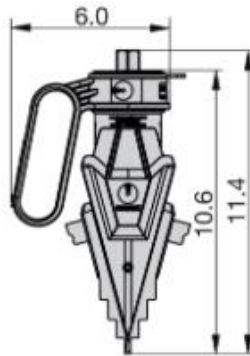
Practical, portable and light in weight

Removable handle for improved access

No finger pinch-points

Increased step depth on upper steps

- 
- 



Model	Capacity	Tip Clearance	Maxium Spread	Jaw Width	Power Source	N.W (kg)
FSW14TM	14Ton	6mm	103.5mm	60mm	Mechanical	13

Specifications

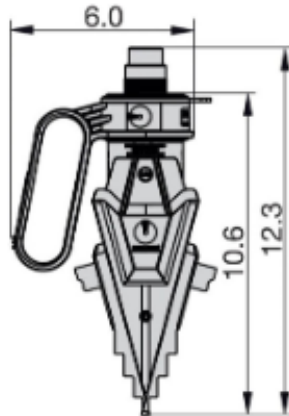
Inquiry

Requires access gap of only 6mm

Increased step depth on upper steps

Rapid disassembly and assembly

Working pressure:700 bar



Model	Capacity	Tip Clearance	Maxium Spread	Jaw Width	Power Source	N.W (kg)
FSW25TE	24Ton	6mm	103.5mm	60mm	Hydraulic	15



# FSW25Ti FLANGE SPREADER

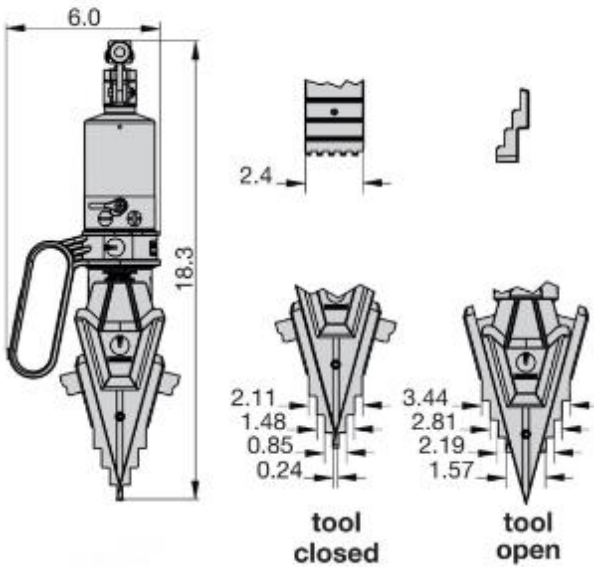
**Specifications**      **Inquiry**

Working pressure: 700 bar

Practical, portable and light in weight

No need extral hose and pump

Rapid disassembly and assembly



Model	Capacity	Tip Clearance	Maxium Spread	Jaw Width	Power Source	N.W (kg)
FSW25Ti	24Ton	6mm	103.5mm	60mm	Hydraulic	14



# MINI GAP FLANGE SPREADER

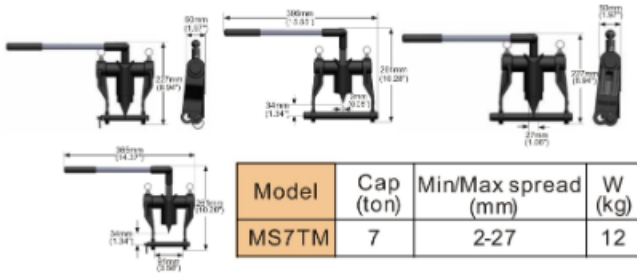
Specifications

Inquiry

Unique double angled wedge produces greater spreading force without reducing spreading distance

Robust light weight tool

Requires access gap of only 2mm

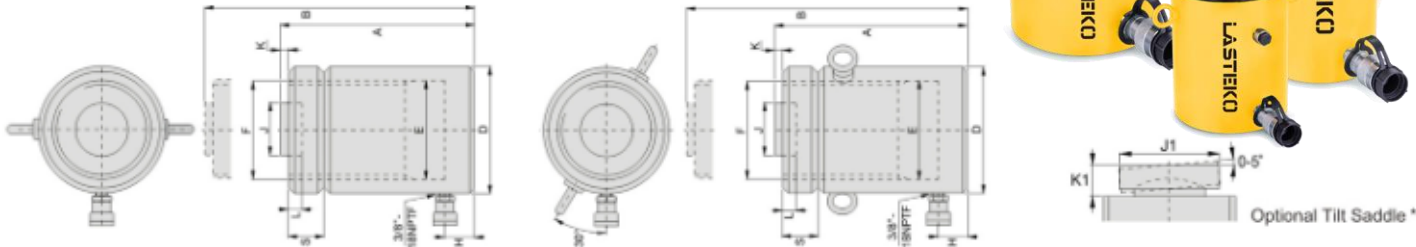


# CLL SERIES

Specifications

Inquiry

- Interchangeable, hardened grooved saddles are standard
- Overflow port functions as a stroke limiter
- Special synthetic coating for improved corrosion resistance and lower friction for smoother operation
- Safety Lock Nut for mechanical load holding
- Single acting, load return



Cylinder Capacity ton (kN)	Stroke (mm)	Model Number	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )
50 (498)	50	CLL-502	70.9	355
	100	CLL-504	70.9	709
	150	CLL-506	70.9	1064
	200	CLL-508	70.9	1418
	250	CLL-5010	70.9	1773
	300	CLL-5012	70.9	2127
100 (929)	50	CLL-1002	132.7	664
	100	CLL-1004	132.7	1327
	150	CLL-1006	132.7	1991
	200	CLL-1008	132.7	2654
	250	CLL-10010	132.7	3318
	300	CLL-10012	132.7	3981
150 (1390)	50	CLL-1502	198.6	993
	100	CLL-1504	198.6	1986
	150	CLL-1506	198.6	2979
	200	CLL-1508	198.6	3972
	250	CLL-15010	198.6	4965
	300	CLL-15012	198.6	5958
200 (1859)	50	CLL-2002	265.6	1330
	150	CLL-2006	265.6	3989
	300	CLL-20012	265.6	7995
	50	CLL-2502	366.1	1832
250 (2562)	150	CLL-2506	366.1	5496
	300	CLL-25012	366.1	10995
	50	CLL-3002	456.2	2281
300 (3193)	150	CLL-3006	456.2	6843
	300	CLL-30012	456.2	13740
	50	CLL-4002	559.9	2800
400 (3919)	150	CLL-4006	559.9	8399
	300	CLL-40012	559.9	16800
	50	CLL-5002	731.1	3653
500 (5118)	150	CLL-5006	731.1	10959
	300	CLL-50012	731.1	21930
	50	CLL-6002	854.8	4277
600 (5983)	150	CLL-6006	854.8	12830
	300	CLL-60012	854.8	25650
	50	CLL-8002	1176.9	5882
800 (8238)	150	CLL-8006	1176.9	17645
	300	CLL-80012	1176.9	35370
	50	CLL-10002	1466.4	7329
1000 (10260)	150	CLL-10006	1466.4	21986
	300	CLL-100012	1466.4	43980

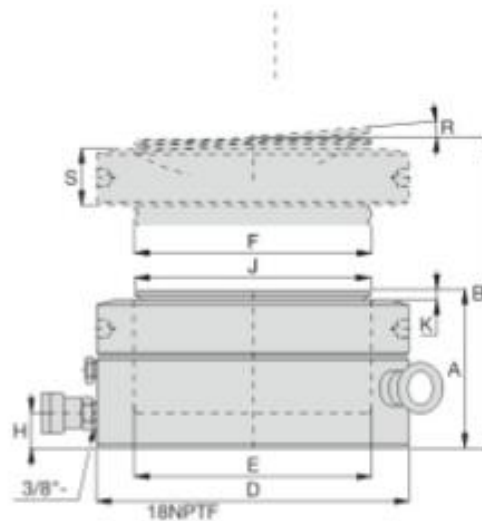
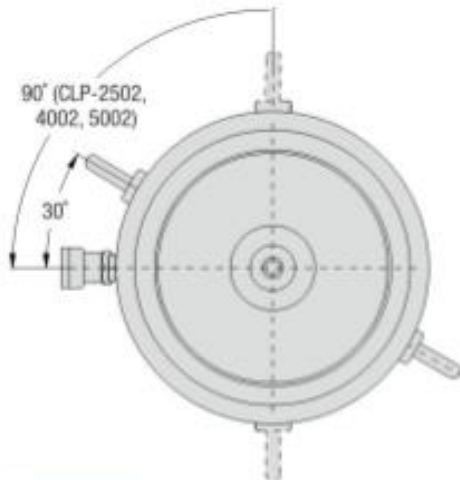
Coll. Height A (mm)	Ext. Height B (mm)	Outs. Dia. D (mm)	Cyl. Bore Dia. E (mm)	Plunger Dia. (Threaded) F (mm)	Base to Adv. Port G (mm)	Standard Saddle Dia. H (mm)	Saddle Protr. from Plgr. I (mm)	Depth of Plunger Hole J (mm)	Lock-nut Height K (mm)	Weight L (kg)	Model Number	* Optional Tilt Saddle		
												Saddle Dia. N (mm)	Saddle Height O (mm)	Saddle Model Number P
164	214	125	95.0	Tr 95 x 4	30	71	2	13	36	15	CLL-502	71	24	CAT-100
214	314	125	95.0	Tr 95 x 4	30	71	2	13	36	20	CLL-504	71	24	CAT-100
264	414	125	95.0	Tr 95 x 4	30	71	2	13	36	25	CLL-506	71	24	CAT-100
314	514	125	95.0	Tr 95 x 4	30	71	2	13	36	30	CLL-508	71	24	CAT-100
364	614	125	95.0	Tr 95 x 4	30	71	2	13	36	35	CLL-5010	71	24	CAT-100
414	714	125	95.0	Tr 95 x 4	30	71	2	13	36	40	CLL-5012	71	24	CAT-100
187	237	165	130.0	Tr 130 x 6	30	71	2	13	44	30	CLL-1002	71	24	CAT-100
237	337	165	130.0	Tr 130 x 6	30	71	2	13	44	39	CLL-1004	71	24	CAT-100
287	437	165	130.0	Tr 130 x 6	30	71	2	13	44	48	CLL-1006	71	24	CAT-100
337	537	165	130.0	Tr 130 x 6	30	71	2	13	44	56	CLL-1008	71	24	CAT-100
387	637	165	130.0	Tr 130 x 6	30	71	2	13	44	64	CLL-10010	71	24	CAT-100
437	737	165	130.0	Tr 130 x 6	30	71	2	13	44	73	CLL-10012	71	24	CAT-100
209	259	205	159.0	Tr 159 x 6	39	130	2	25	44	53	CLL-1502	130	20	CAT-200
259	359	205	159.0	Tr 159 x 6	39	130	2	25	44	66	CLL-1504	130	20	CAT-200
309	459	205	159.0	Tr 159 x 6	39	130	2	25	44	78	CLL-1506	130	20	CAT-200
359	559	205	159.0	Tr 159 x 6	39	130	2	25	44	92	CLL-1508	130	20	CAT-200
409	659	205	159.0	Tr 159 x 6	39	130	2	25	44	104	CLL-15010	130	20	CAT-200
459	759	205	159.0	Tr 159 x 6	39	130	2	25	44	117	CLL-15012	130	20	CAT-200
243	293	235	184.0	Tr 184 x 6	50	130	2	25	50	83	CLL-2002	130	20	CAT-200
343	493	235	184.0	Tr 184 x 6	50	130	2	25	50	117	CLL-2006	130	20	CAT-200
493	793	235	184.0	Tr 184 x 6	50	130	2	25	50	170	CLL-20012	130	20	CAT-200
249	299	275	216.0	Tr 216 x 6	50	150	2	25	56	116	CLL-2502	150	21	CAT-250
349	499	275	216.0	Tr 216 x 6	50	150	2	25	56	162	CLL-2506	150	21	CAT-250
499	799	275	216.0	Tr 216 x 6	50	150	2	25	56	234	CLL-25012	150	21	CAT-250
295	345	310	241.0	Tr 241 x 6	59	139	5	25	60	173	CLL-3002	195	75	CAT-300
395	545	310	241.0	Tr 241 x 6	59	139	5	25	60	233	CLL-3006	195	75	CAT-300
545	845	310	241.0	Tr 241 x 6	59	139	5	25	60	323	CLL-30012	195	75	CAT-300
335	385	350	267.0	Tr 266 x 6	70	159	5	25	70	250	CLL-4002	225	85	CAT-400
435	585	350	267.0	Tr 266 x 6	70	159	5	25	70	327	CLL-4006	225	85	CAT-400
585	885	350	267.0	Tr 266 x 6	70	159	5	25	70	441	CLL-40012	225	85	CAT-400
375	425	400	305.0	Tr 305 x 6	80	179	5	25	80	367	CLL-5002	250	91	CAT-500
475	625	400	305.0	Tr 305 x 6	80	179	5	25	80	466	CLL-5006	250	91	CAT-500
625	925	400	305.0	Tr 305 x 6	80	179	5	25	80	617	CLL-50012	250	91	CAT-500
395	445	430	330.0	Tr 330 x 6	85	194	5	25	85	446	CLL-6002	275	96	CAT-600
495	645	430	330.0	Tr 330 x 6	85	194	5	25	85	562	CLL-6006	275	96	CAT-600
645	945	430	330.0	Tr 330 x 6	85	194	5	25	85	737	CLL-60012	275	96	CAT-600
455	505	505	387.0	Tr 387 x 6	100	224	5	25	100	709	CLL-8002	320	123	CAT-800
555	705	505	387.0	Tr 387 x 6	100	224	5	25	100	870	CLL-8006	320	123	CAT-800
705	1005	505	387.0	Tr 387 x 6	100	224	5	25	100	1110	CLL-80012	320	123	CAT-800
495	545	560	432.0	Tr 432 x 6	110	249	5	25	110	949	CLL-10002	360	136	CAT-1000
595	745	560	432.0	Tr 432 x 6	110	249	5	25	110	1141	CLL-10006	360	136	CAT-1000
745	1045	560	432.0	Tr 432 x 6	110	249	5	25	110	1430	CLL-100012	360	136	CAT-1000




## Specifications

## Inquiry

- Single acting, load return
- Max Working Pressure: 700 Bar
- Extremely low profile design for use in confined spaces
- Lock nut for positive and safe mechanical load holding over a long period of time
- Overflow port functions as a stroke limiter



Cylinder Capacity ton (kN)	Stroke (mm)	Model Number*	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Collapsed Height		Extended Height		Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Base to Advance Port H (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plgr. K (mm)	Saddle Max. Tilt Angle R	Lock Nut Height S (mm)	 (kg)
					A (mm)	B (mm)	A (mm)	B (mm)									
60 (606)	50	CLP-602	86.6	432	125	175	140	105.0	Tr 104 x 4	19	96	6	5°	28	15		
100 (1027)	50	CLP-1002	146.8	734	137	187	175	136.7	Tr 136 x 6	21	126	8	5°	31	26		
160 (1619)	45	CLP-1602	231.3	1040	148	193	220	171.6	Tr 171 x 6	27	160	9	5°	40	44		
200 (1999)	45	CLP-2002	285.6	1285	155	200	245	190.7	Tr 190 x 6	30	180	10	5°	43	57		
260 (2567)	45	CLP-2502	366.8	1650	159	204	275	216.1	Tr 216 x 6	32	200	11	5°	44	74		
400 (3916)	45	CLP-4002	559.5	2517	178	223	350	266.9	Tr 266 x 6	39	250	11	4°	55	134		
520 (5114)	45	CLP-5002	730.6	3287	192	237	400	305.0	Tr 305 x 6	48	290	10	3°	62	189		

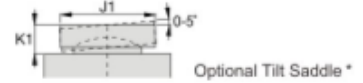
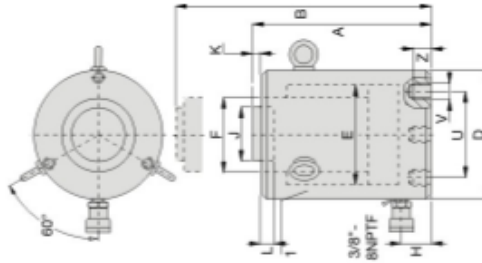
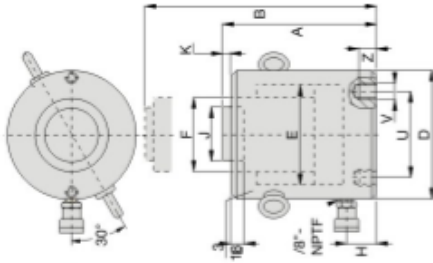


# Specifications

# Inquiry

# CLSG SERIES

- Base mounting holes are standard on all models
- Single acting, load return
- Baked enamel outside finish and plated pistons provide superior corrosion protection
- Integral stop ring provides piston blow-out protection
- Interchangeable, hardened grooved saddles are standard



Cylinder Capacity	Stroke	Model Number	Cylinder Effective Area	Oil Capacity
ton (kN)	(mm)		(cm <sup>2</sup> )	(cm <sup>3</sup> )
50 (539)	50	CLSG-502	77.0	385
	100	CLSG-504	77.0	770
	150	CLSG-506	77.0	1155
	200	CLSG-508	77.0	1540
	250	CLSG-5010	77.0	1924
	300	CLSG-5012	77.0	2309
100 (929)	50	CLSG-1002	132.7	664
	100	CLSG-1004	132.7	1327
	150	CLSG-1006	132.7	1991
	200	CLSG-1008	132.7	2655
	250	CLSG-10010	132.7	3318
	300	CLSG-10012	132.7	3982
150 (1390)	50	CLSG-1502	198.6	993
	100	CLSG-1504	198.6	1986
	150	CLSG-1506	198.6	2978
	200	CLSG-1508	198.6	3971
	250	CLSG-15010	198.6	4964
	300	CLSG-15012	198.6	5957
200 (1861)	50	CLSG-2002	265.9	1330
	150	CLSG-2006	265.9	3989
	300	CLSG-20012	265.9	7977
250 (2565)	50	CLSG-2502	366.4	1832
	150	CLSG-2506	366.4	5497
	300	CLSG-25012	366.4	10993
	50	CLSG-3002	456.2	2281
300 (3193)	150	CLSG-3006	456.2	6843
	300	CLSG-30012	456.2	13685
	50	CLSG-4002	559.9	2800
400 (3919)	150	CLSG-4006	559.9	8399
	300	CLSG-40012	559.9	16797
	50	CLSG-5002	730.6	3653
500 (5114)	150	CLSG-5006	730.6	10959
	300	CLSG-50012	730.6	21918
	50	CLSG-6002	855.3	4276
600 (5987)	150	CLSG-6006	855.3	12829
	300	CLSG-60012	855.3	25659
	50	CLSG-8002	1176.3	5881
800 (8234)	150	CLSG-8006	1176.3	17644
	300	CLSG-80012	1176.3	35288
	50	CLSG-10002	1465.7	7329
1000 (10260)	150	CLSG-10006	1465.7	21986
	300	CLSG-100012	1465.7	43972

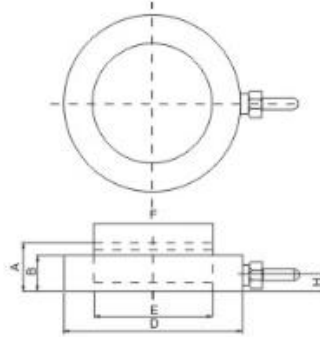
Collapsed Height	Extended Height	Outside Dia.	Cylinder Bore Dia.	Plunger Dia.	Base to Adv. Port	Standard Saddle Dia.	Saddle Protr. from Plgr.	Depth of Plunger Hole	Weight	Model Number	* Optional Tilt Saddle		
A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	L (mm)	(kg)		Saddle Dia. J1 (mm)	Saddle Height K1 (mm)	Saddle Model Number
162	212	130	99.0	70.0	52	50	1	19	17	CLSG-502	50	24	CATG-50
212	312	130	99.0	70.0	52	50	1	19	20	CLSG-504	50	24	CATG-50
262	412	130	99.0	70.0	52	50	1	19	23	CLSG-506	50	24	CATG-50
312	512	130	99.0	70.0	52	50	1	19	27	CLSG-508	50	24	CATG-50
362	612	130	99.0	70.0	52	50	1	19	31	CLSG-5010	50	24	CATG-50
412	712	130	99.0	70.0	52	50	1	19	34	CLSG-5012	50	24	CATG-50
182	232	165	130.0	95.0	54	75	1	19	19	CLSG-1002	73	29	CATG-100
232	332	165	130.0	95.0	54	75	1	19	29	CLSG-1004	73	29	CATG-100
282	432	165	130.0	95.0	54	75	1	19	40	CLSG-1006	73	29	CATG-100
332	532	165	130.0	95.0	54	75	1	19	50	CLSG-1008	73	29	CATG-100
382	632	165	130.0	95.0	54	75	1	19	61	CLSG-10010	73	29	CATG-100
432	732	165	130.0	95.0	54	75	1	19	71	CLSG-10012	73	29	CATG-100
196	246	205	159.0	114.0	61	94	1	19	39	CLSG-1502	91	31	CATG-150
246	346	205	159.0	114.0	61	94	1	19	52	CLSG-1504	91	31	CATG-150
296	446	205	159.0	114.0	61	94	1	19	65	CLSG-1506	91	31	CATG-150
346	546	205	159.0	114.0	61	94	1	19	78	CLSG-1508	91	31	CATG-150
396	646	205	159.0	114.0	61	94	1	19	92	CLSG-15010	91	31	CATG-150
446	746	205	159.0	114.0	61	94	1	19	105	CLSG-15012	91	31	CATG-150
216	266	235	184.0	133.0	67	113	1	24	55	CLSG-2002	118	35	CATG-200
316	466	235	184.0	133.0	67	113	1	24	91	CLSG-2006	118	35	CATG-200
466	766	235	184.0	133.0	67	113	1	24	146	CLSG-20012	118	35	CATG-200
235	285	275	216.0	165.0	73	145	1	24	102	CLSG-2502	144	46	CATG-250
335	485	275	216.0	165.0	73	145	1	24	136	CLSG-2506	144	46	CATG-250
485	785	275	216.0	165.0	73	145	1	24	207	CLSG-25012	144	46	CATG-250
312	362	310	241.0	197.0	101	177	1	19	184	CLSG-3002	160	62	CATG-300
412	562	310	241.0	197.0	101	177	1	19	232	CLSG-3006	160	62	CATG-300
562	862	310	241.0	197.0	101	177	1	19	303	CLSG-30012	160	62	CATG-300
375	425	350	267.0	216.0	114	196	3	27	270	CLSG-4002	193	51	CATG-400
475	625	350	267.0	216.0	114	196	3	27	330	CLSG-4006	193	51	CATG-400
625	925	350	267.0	216.0	114	196	3	27	421	CLSG-40012	193	51	CATG-400
419	469	400	305.0	248.0	114	228	3	27	401	CLSG-5002	228	63	CATG-500
519	669	400	305.0	248.0	114	228	3	27	480	CLSG-5006	228	63	CATG-500
669	969	400	305.0	248.0	114	228	3	27	599	CLSG-50012	228	63	CATG-500
429	479	430	330.0	267.0	114	247	3	27	474	CLSG-6002	241	76	CATG-600
529	679	430	330.0	267.0	114	247	3	27	565	CLSG-6006	241	76	CATG-600
679	979	430	330.0	267.0	114	247	3	27	701	CLSG-60012	241	76	CATG-600
474	524	505	387.0	317.0	149	297	3	27	741	CLSG-8002	287	75	CATG-800
574	724	505	387.0	317.0	149	297	3	27	880	CLSG-8006	287	75	CATG-800
724	1024	505	387.0	317.0	149	297	3	27	1058	CLSG-80012	287	75	CATG-800
564	614	560	432.0	343.0	174	323	3	27	1062	CLSG-10002	311	93	CATG-1000
664	814	560	432.0	343.0	174	323	3	27	1213	CLSG-10006	311	93	CATG-1000
814	1114	560	432.0	343.0	174	323	3	27	1439	CLSG-100012	311	93	CATG-1000

# LHC SERIES

Specifications

Inquiry

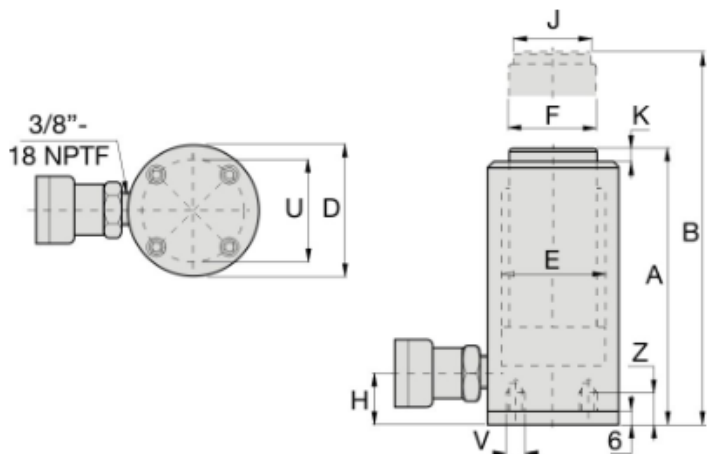
- Working pressure: 1500 Bar
- Single acting, load return. Workable for limited work space




Model No	Cap (ton)	Stroke (mm)	Volume (mm <sup>3</sup> )	CollapH (mm)	Ext H (mm)	OutsD (mm)	W (kg)	Plunger D (mm)	Oil Input Position (mm)
LHC-00510	5	10	3.46	30	40	60	3.5	21	12
LHC-01010	10	10	7.04	30	40	70	4	30	12
LHC-02510	25	10	17.35	30	40	90	4.6	47	11.5
LHC-05510	50	10	36.32	30	40	118	4.8	68	11.5
LHC-10010	100	10	69.4	30	40	152	5.3	94	11.5
LHC-12010	120	10	78.54	33	40	160	6.1	100	11.5
LHC-15010	150	10	105.68	31	41	180	8.5	116	12.5
LHC-20010	200	10	136.58	32	42	204	9.5	132	13.5

# RAC SERIES

- Guide ring eliminates over travel and provides support to reduce wear from off center loads
- High strength alloy aluminum body is coated to protect against corrosion
- Straight pull, return spring assembly provides fast retraction
- Composite bearings prevent metal-to-metal contact, increasing cylinder life and resistance to side-loads of up to 10%



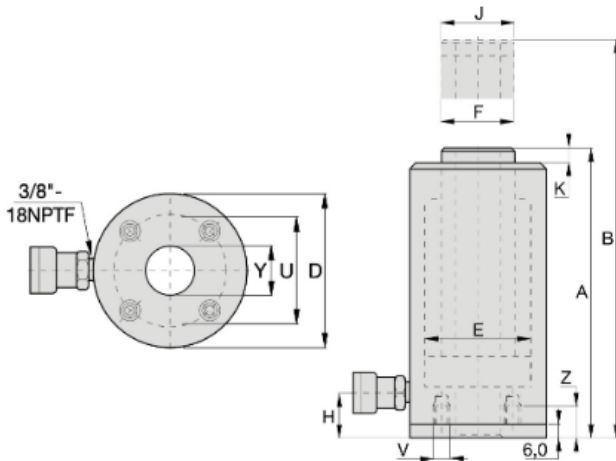
Cylinder Capacity ton (kn)	Stroke (mm)	Model	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Bottom to Advance Port H (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	 (kg)
20 (218)	50	RAC-202	31.2	156	174	224	85	63	50	27	40	3	3.6
	100	RAC-204	31.2	312	224	324	85	63	50	27	40	3	4.1
	150	RAC-206	31.2	468	274	424	85	63	50	27	40	3	4.6
	200	RAC-208	31.2	624	324	524	85	63	50	27	40	3	5.1
	250	RAC-2010	31.2	780	374	624	85	63	50	27	40	3	5.6
30 (309)	50	RAC-302	44.2	221	181	231	100	75	60	32	40	3	4.5
	100	RAC-304	44.2	442	231	331	100	75	60	32	40	3	5.2
	150	RAC-306	44.2	663	281	431	100	75	60	32	40	3	5.9
	200	RAC-308	44.2	884	331	531	100	75	60	32	40	3	6.6
	250	RAC-3010	44.2	1105	381	631	100	75	60	32	40	3	7.3
50 (496)	50	RAC-502	70.9	354	186	236	130	95	80	30	50	3	8.5
	100	RAC-504	70.9	709	236	336	130	95	80	30	50	3	9.8
	150	RAC-506	70.9	1063	286	436	130	95	80	30	50	3	11.1
	200	RAC-508	70.9	1417	336	536	130	95	80	30	50	3	12.4
	250	RAC-5010	70.9	1771	386	636	130	95	80	30	50	3	13.7
100 (1002)	50	RAC-1002	143.1	715	221	271	180	135	110	46	94	3	17.3
	100	RAC-1004	143.1	1431	271	371	180	135	110	46	94	3	19.6
	150	RAC-1006	143.1	2147	321	471	180	135	110	46	94	3	21.9
	200	RAC-1008	143.1	2863	371	571	180	135	110	46	94	3	24.2
	250	RAC-10010	143.1	3578	421	671	180	135	110	46	94	3	26.5
150 (1589)	50	RAC-1502	227.0	1135	243	293	230	170	140	51	113	3	25.3
	100	RAC-1504	227.0	2270	293	393	230	170	140	51	113	3	29.3
	150	RAC-1506	227.0	3405	343	493	230	170	140	51	113	3	33.3
	200	RAC-1508	227.0	4540	393	593	230	170	140	51	113	3	37.3
	250	RAC-15010	227.0	5675	443	693	230	170	140	51	113	3	41.3

# RACH SERIES

Specifications

Inquiry

- Hollow plunger design allows for both pull and push forces
- Composite bearings increase cylinder life and sideload resistance
- Hard-Coat finish on all surfaces resists damage and extends cylinder life
- Handles standard on all models
- Steel base plate and saddle for protection against load-induced damage

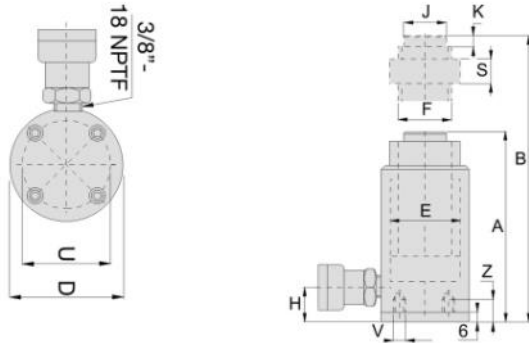


Steel Base Plate Mounting Holes			
Cylinder Model / Capacity ton	Bolt Circle U (mm)	Thread V (mm)	Thread Depth Z (mm)
RACH-20	80	M6	12
RACH-30	110	M6	12
RACH-60	160	M6	12
RACH-100	230	M6	12
RACH-150	245	M6	12

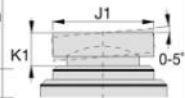
Cyl Cap ton (kn)	Stroke (mm)	Model	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Bottom to Advance Port H (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	Center Hole Dia Y (mm)	(kg)
20 (229)	50	RACH-202	32.7	164	188	238	100	75	55	29	55	10	27	5.2
	100	RACH-204	32.7	327	251	351	100	75	55	29	55	10	27	6.1
	150	RACH-206	32.7	491	315	465	100	75	55	29	55	10	27	7.1
	200	RACH-208	32.7	654	378	578	100	75	55	29	55	10	27	8.0
	250	RACH-2010	32.7	818	442	692	100	75	55	29	55	10	27	9.0
30 (358)	50	RACH-302	51.1	256	208	258	130	95	70	29	70	10	34	8.0
	100	RACH-304	51.1	511	267	367	130	95	70	29	70	10	34	9.5
	150	RACH-306	51.1	766	333	483	130	95	70	29	70	10	34	11.2
	200	RACH-308	51.1	1022	395	595	130	95	70	29	70	10	34	12.9
	250	RACH-3010	51.1	1277	458	708	130	95	70	29	70	10	34	14.5
60 (596)	50	RACH-602	84.7	423	251	301	180	130	100	61	100	12	54	16.2
	100	RACH-604	84.7	847	315	415	180	130	100	61	100	12	54	19.5
	150	RACH-606	84.7	1270	380	530	180	130	100	61	100	12	54	25.6
	200	RACH-608	84.7	1694	445	645	180	130	100	61	100	12	54	26.0
	250	RACH-6010	84.7	2117	510	760	180	130	100	61	100	12	54	29.6
100 (1157)	50	RACH-1002	164.6	823	258	308	250	185	145	61	145	14	79	33.8
	100	RACH-1004	164.6	1646	325	425	250	185	145	61	145	14	79	39.8
	150	RACH-1006	164.6	2487	391	541	250	185	145	61	145	14	79	46.2
	200	RACH-1008	164.6	3291	459	659	250	185	145	61	145	14	79	52.2
	250	RACH-10010	164.6	4114	527	777	250	185	145	61	145	14	79	58.8
150 (1588)	50	RACH-1502	225.8	1129	280	330	275	205	150	61	145	14	79	48.9
	100	RACH-1504	225.8	2258	360	460	275	205	150	61	145	14	79	55.7
	150	RACH-1506	225.8	3387	430	580	275	205	150	61	145	14	79	63.0
	200	RACH-1508	225.8	4517	500	700	275	205	150	61	145	14	79	70.1
	250	RACH-15010	225.8	5646	570	820	275	205	150	61	145	14	79	77.2

# RACL SERIES

- High strength return spring for rapid cylinder retraction
- Hard-Coat finish on all surfaces resists damage and extends cylinder life
- Aluminium Lock Nut provides mechanical load holding for extended periods
- Hardened steel stop ring increasing cylinder life and resistance to side-loads of up to 5%



Optional Bolt-on Tilt Saddle Dimensions (mm)			
Cylinder Model ton	Tilt Saddle Model Number	Tilt Saddle Diameter J1	Saddle Protrusion from Plunger K1
RACL-50	CATG-50	50	24
RACL-100	CATG-150	91	31
RACL-150	CATG-200	118	35



Steel Base Plate Mounting Holes			
Cylinder Model / Capacity ton	Bolt Circle U (mm)	Thread V (mm)	Thread Depth Z (mm)
RACL-20	70	M6	12
RACL-30	80	M6	12
RACL-50	110	M6	12
RACL-100	150	M10	12
RACL-150	200	M10	12

Cyl Cap ton (kn)	Stroke (mm)	Model	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Bottom to Advance Port H (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	Lock Nut H S (mm)	Weight (kg)
20 (218)	50	RACL-202	31.2	156	224	274	85	63	Tr 55 x 4	27	40	3	50	4.0
	100	RACL-204	31.2	312	274	374	85	63	Tr 55 x 4	27	40	3	50	4.6
	150	RACL-206	31.2	468	324	474	85	63	Tr 55 x 4	27	40	3	50	5.2
	200	RACL-208	31.2	624	374	574	85	63	Tr 55 x 4	27	40	3	50	5.8
	250	RACL-2010	31.2	780	424	674	85	63	Tr 55 x 4	27	40	3	50	6.4
30 (309)	50	RACL-302	44.2	221	231	281	100	75	Tr 60 x 4	33	40	3	50	5.4
	100	RACL-304	44.2	442	281	381	100	75	Tr 60 x 4	33	40	3	50	6.1
	150	RACL-306	44.2	663	331	481	100	75	Tr 60 x 4	33	40	3	50	6.8
	200	RACL-308	44.2	883	381	581	100	75	Tr 60 x 4	33	40	3	50	7.5
	250	RACL-3010	44.2	1105	431	681	100	75	Tr 60 x 4	33	40	3	50	8.2
50 (496)	50	RACL-502	70.9	354	236	286	130	95	Tr 80 x 4	30	50	3	50	9.3
	100	RACL-504	70.9	709	286	386	130	95	Tr 80 x 4	30	50	3	50	10.6
	150	RACL-506	70.9	1063	336	486	130	95	Tr 80 x 4	30	50	3	50	11.9
	200	RACL-508	70.9	1417	386	586	130	95	Tr 80 x 4	30	50	3	50	13.2
	250	RACL-5010	70.9	1771	436	686	130	95	Tr 80 x 4	30	50	3	50	14.5
100 (1002)	50	RACL-1002	143.1	716	296	346	180	135	Tr 110 x 6	46	94	3	75	21.9
	100	RACL-1004	143.1	1431	346	446	180	135	Tr 110 x 6	46	94	3	75	24.2
	150	RACL-1006	143.1	2147	396	546	180	135	Tr 110 x 6	46	94	3	75	26.5
	200	RACL-1008	143.1	2863	446	646	180	135	Tr 110 x 6	46	94	3	75	28.8
	250	RACL-10010	143.1	3578	496	746	180	135	Tr 110 x 6	46	94	3	75	31.1
150 (1589)	50	RACL-1502	227.0	1135	323	373	230	170	Tr 140 x 6	51	113	3	80	32.2
	100	RACL-1504	227.0	2270	373	473	230	170	Tr 140 x 6	51	113	3	80	36.2
	150	RACL-1506	227.0	3405	423	573	230	170	Tr 140 x 6	51	113	3	80	40.2
	200	RACL-1508	227.0	4540	473	673	230	170	Tr 140 x 6	51	113	3	80	44.2
	250	RACL-15010	227.0	5675	523	773	230	170	Tr 140 x 6	51	113	3	80	48.2

# RAR SERIES

Specifications

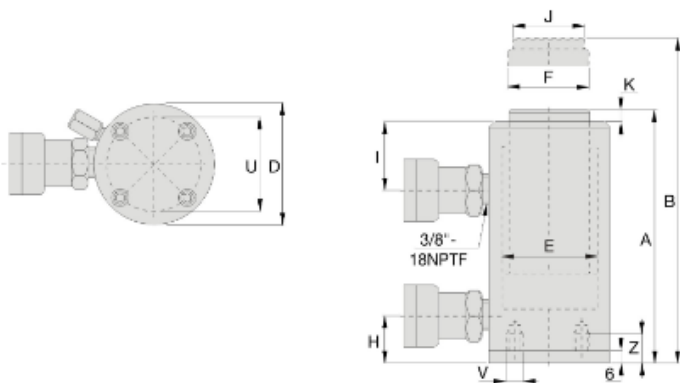
Inquiry

Guide ring eliminates over travel and provides support to reduce wear from off center loads.

High strength alloy aluminum body is coated to protect against corrosion.

Straight pull, return spring assembly provides fast retraction.

Composite bearings prevent metal-to-metal contact, increasing cylinder life and resistance to side-loads of up to 10%.



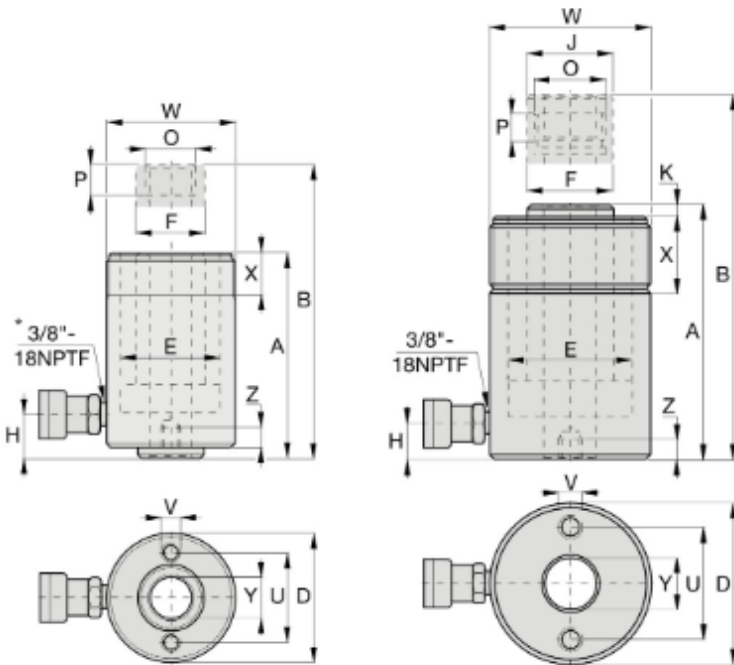
Cyl Cap ton	Stroke (mm)	Model	Max Cylinder Cap (kn)		Cylinder Effective Area (cm <sup>2</sup> )		Oil Capacity (cm <sup>3</sup> )		H A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Bottom to Advance Port H (mm)	Top to Retract Port I (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	⚖️ (kg)
			Push	Pull	Push	Pull	Push	Pull										
20	50	RAR-202	218	130	31.2	18.6	156	93	189	239	113	63	40	30	50	30	3	7.4
	100	RAR-204	218	130	31.2	18.6	312	186	239	339	113	63	40	30	50	30	3	8.0
	150	RAR-206	218	130	31.2	18.6	468	279	289	439	113	63	40	30	50	30	3	8.6
	200	RAR-208	218	130	31.2	18.6	624	372	339	539	113	63	40	30	50	30	3	9.2
	250	RAR-2010	218	130	31.2	18.6	780	465	389	639	113	63	40	30	50	30	3	9.8
30	50	RAR-302	309	179	44.2	24.5	221	123	201	251	125	75	50	30	55	40	3	8.6
	100	RAR-304	309	179	44.2	24.5	442	245	251	351	125	75	50	30	55	40	3	9.5
	150	RAR-306	309	179	44.2	24.5	663	368	301	451	125	75	50	30	55	40	3	10.4
	200	RAR-308	309	179	44.2	24.5	884	490	351	551	125	75	50	30	55	40	3	11.3
	250	RAR-3010	309	179	44.2	24.5	1105	613	401	651	125	75	50	30	55	40	3	12.2
50	50	RAR-502	496	187	70.9	26.7	354	134	201	251	145	95	75	30	56	50	3	11.1
	100	RAR-504	496	187	70.9	26.7	709	267	251	351	145	95	75	30	56	50	3	12.7
	150	RAR-506	496	187	70.9	26.7	1063	401	301	451	145	95	75	30	56	50	3	14.3
	200	RAR-508	496	187	70.9	26.7	1417	534	351	551	145	95	75	30	56	50	3	15.9
	250	RAR-5010	496	187	70.9	26.7	1771	668	401	651	145	95	75	30	56	50	3	17.5
100	50	RAR-1002	1002	557	143.1	79.5	715	398	251	301	185	135	90	43	80	75	3	16.4
	100	RAR-1004	1002	557	143.1	79.5	1431	795	301	401	185	135	90	43	80	75	3	19.3
	150	RAR-1006	1002	557	143.1	79.5	2147	1193	351	501	185	135	90	43	80	75	3	22.2
	200	RAR-1008	1002	557	143.1	79.5	2863	1590	401	601	185	135	90	43	80	75	3	25.1
	250	RAR-10010	1002	557	143.1	79.5	3578	1988	451	701	185	135	90	43	80	75	3	28.0
150	50	RAR-1502	1589	924	227.0	132.0	1135	660	248	298	230	170	110	38	75	113	3	24.2
	100	RAR-1504	1589	924	227.0	132.0	2270	1320	298	398	230	170	110	38	75	113	3	28.9
	150	RAR-1506	1589	924	227.0	132.0	3405	1980	348	498	230	170	110	38	75	113	3	33.2
	200	RAR-1508	1589	924	227.0	132.0	4540	2640	398	598	230	170	110	38	75	113	3	37.9
	250	RAR-15010	1589	924	227.0	132.0	5675	3300	448	698	230	170	110	38	75	113	3	42.6







- Hollow plunger design allows for both, pull and push forces
- Single-acting, spring return
- Nickel-plated, floating center tube on models over 20 ton increases product life
- Baked enamel finish for increased corrosion resistance



Optional Heat Treated Hollow Saddles					
Saddle Type	Cylinder Model Number	Saddle Model Nr.	Saddle Dimensions (mm)		
			A	B	C
Threaded Hollow	RCH-202, 206	HP-2015	53	1" - 8	9
	RCH-302, 306	HP-3015	63	1 1/4" - 7	9
	RCH-603, 606	HP-5016	91	1 5/8" - 5 1/2	12
	RCH-1003	HP-10016	126	2 1/2" - 8	13

Base Mounting Hole Dimensions (mm)			
Model Number	Bolt Circle U	Thread V	Thread Depth Z
RCH-120	50.8	5/16"-18UNC	9.0
RCH-121	-	-	-
RCH-1211	-	-	-
RCH-123	50.8	5/16"-18UNC	12.7
RCH-202	82.6	3/8"-16UNC	9.4
RCH-206	82.6	3/8"-16UNC	9.4
RCH-302	92.2	3/8"-16UNC	14.0
RCH-306	92.2	3/8"-16UNC	14.0
RCH-603	130.3	1/2"-13UNC	14.0
RCH-606	130.3	1/2"-13UNC	14.0
RCH-1003	177.8	5/8"-11UNC	19.0

Cylinder Capacity	Stroke	Model Number	Cyl. Effect. Area	Oil Cap.	Coll. Height	Ext. Height	Out. Dia.	Cyl. Bore Dia.	Pigr. Dia.	Cyl. Base to Advance Port	Saddle Dia.	Saddle Protrusion from Pigr.	Plunger Internal Thread	Plunger Thread Length	Collar Thread	Collar Thread Length	Center Hole Dia.	Weight
ton (kn)	(mm)		(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	O	P (mm)	W	X (mm)	Y (mm)	(kg)
13(125)	8	RCH-120	17.9	14	55	63	69	54.1	35.1	9	-	-	3/4" -16 UN	16	2 3/8" -16	30	19.6	1.5
	42	RCH-121*	17.9	75	120	162	69	54.1	35.1	25	-	-	-	-	2 3/8" -16	30	19.6	2.8
	42	RCH-1211	17.9	75	120	162	69	54.1	35.1	25	-	-	3/4" -16 UN	16	2 3/8" -16	30	19.6	2.8
	76	RCH-123	17.9	136	184	260	69	54.1	35.1	25	-	-	-	-	2 3/8" -16	30	19.6	4.4
20(215)	49	RCH-202*	30.7	150	162	211	98	73.1	54.1	19	54	9.7	1 9/16" -16 UN	19	3 7/8" -12	38	26.9	7.7
	155	RCH-206	30.7	476	306	461	98	73.1	54.1	25	54	9.7	1 9/16" -16 UN	19	3 7/8" -12	38	26.9	14.1
30(326)	64	RCH-302*	46.6	298	178	242	114	88.9	63.5	21	63	9.0	1 3/16" -16 UN	22	4 1/2" -12	42	33.3	10.9
	155	RCH-306	46.6	722	330	485	114	88.9	63.5	25	63	9.0	1 3/16" -16 UN	22	4 1/2" -12	42	33.3	21.8
60(576)	76	RCH-603*	82.3	626	247	323	159	123.9	91.9	31	91	12.0	2 3/4" -16 UN	19	6 1/2" -12	48	53.8	28.1
	153	RCH-606	82.3	1259	323	476	159	123.9	91.9	31	91	12.0	2 3/4" -16 UN	19	6 1/2" -12	48	53.8	35.4
95(931)	76	RCH-1003*	133.0	1011	254	330	212	165.1	127.0	38	126	12.0	4" -16 UN	25	8 3/8" -12	60	79.0	63.0

# RCS SERIES

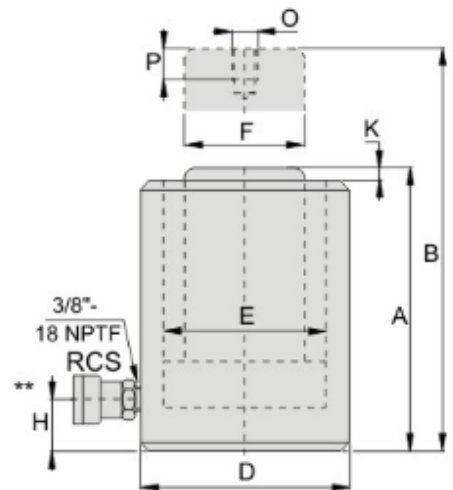
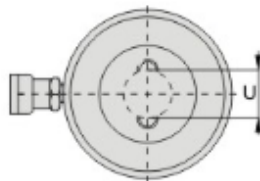
Specifications


Inquiry

- Single-acting, spring return
- Baked enamel finish for increased corrosion resistance
- Plunger wiper reduces contamination, extending cylinder life
- Grooved plunger end with threaded holes for mounting tilt saddles
- Integral handle on RCS-1002 for easy carrying
- Steel plunger surface is chromium-plating



Cyl. Capacity ton (kn)	Stroke (mm)	Model Number	Cyl. Effect. Area (cm <sup>2</sup> )	Oil Cap. (cm <sup>3</sup> )
10 (101)	38	RCS-101*	14.5	55
20 (201)	45	RCS-201*	28.7	129
30 (295)	62	RCS-302*	42.1	261
45 (435)	60	RCS-502*	62.1	373
90 (887)	57	RCS-1002*	126.7	722



Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Dia. E (mm)	Plunger Dia. F (mm)	Base to Advance Port H (mm)	Plunger Protrusion from Base K (mm)	Plunger to Base L (mm)	Plunger to Mtg. Hole M (mm)	Thread O (mm)	Thread Depth P (mm)	Bolt Circle U (mm)	 (kg)	Model Number
88	126	69	42.9	38.1	17	5	-	-	M4	8	26	4.1	RCS-101*
98	143	92	60.5	50.8	17	3	-	-	M5	8	40	5.0	RCS-201*
117	179	101	73.2	66.5	19	3	-	-	M5	8	40	6.8	RCS-302*
122	182	124	88.9	69.8	23	2	-	-	M5	8	40	10.9	RCS-502*
141	198	165	127.0	92.2	31	1	-	-	M8	10	55	22.7	RCS-1002*



# RRH SERIES

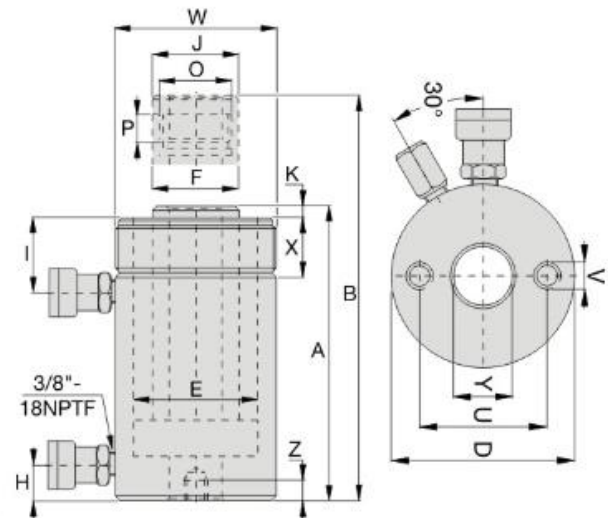
Specifications

Inquiry

- Relief valves prevent damage in case of overpressurisation
- Baked enamel finish for increased corrosion resistance
- Coated with corrosive resistant baked enamel
- Nickel-plated, floating center tube increases product life
- Hollow plunger allows for both pull and push forces



Cylinder ton	Stroke (mm)	Model Number	Max. Cylinder Capacity (kn)		Cylinder Effective Area (cm <sup>2</sup> )		Oil Capacity (cm <sup>3</sup> )	
			Advance	Retract	Advance	Retract	Advance	Retract
30	178	RRH-307	326	213	46.6	30.4	829	541
	258	RRH-3010	326	213	46.6	30.4	1202	784
60	89	RRH-603	576	380	82.3	54.2	733	482
	166	RRH-606	576	380	82.3	54.2	1366	900
	257	RRH-6010	576	380	82.3	54.2	2115	1393
95	38	RRH-1001	931	612	133.0	87.4	505	333
	76	RRH-1003	931	612	133.0	87.4	1011	666
	153	RRH-1006	931	612	133.0	87.4	2035	1337
	257	RRH-10010	931	612	133.0	87.4	3420	2246
145	203	RRH-1508	1429	718	204.1	102.6	4144	2083



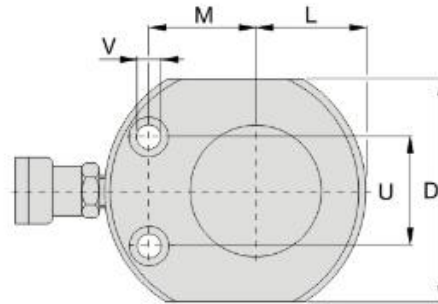
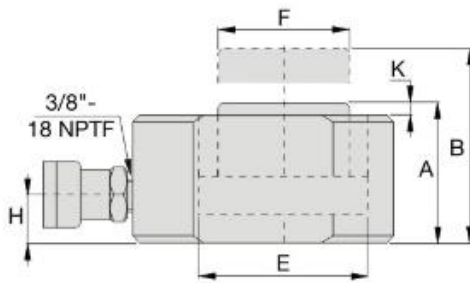
Coll. Height A (mm)	Ext. Height B (mm)	Out. Dia. D (mm)	Cyl. Bore Dia. E (mm)	Plgr. Dia. F (mm)	Cyl. Base to Adv. Port H (mm)	Cyl. Top to Return Port I (mm)	Saddle Dia. J (mm)	Saddle Protr. fr. Plgr. K (mm)	Thread O	Plunger Thread Length P (mm)	Collar Thread W	Collar Thread Length X (mm)	Center Hole Dia. Y (mm)	(kg)	Model
330	508	114	88.9	63.5	25	60	63	9	1 <sup>13</sup> / <sub>16</sub> " -16	22	4 <sup>1</sup> / <sub>2</sub> " -12	42	33.3	21	RRH-307
431	689	114	88.9	63.5	25	60	63	9	1 <sup>13</sup> / <sub>16</sub> " -16	22	4 <sup>1</sup> / <sub>2</sub> " -12	42	33.3	27	RRH-3010
247	336	159	123.9	91.9	31	66	91	12	2 <sup>3</sup> / <sub>4</sub> " -16	19	6 <sup>1</sup> / <sub>4</sub> " -12	48	53.8	28	RRH-603
323	489	159	123.9	91.9	31	66	91	12	2 <sup>3</sup> / <sub>4</sub> " -16	19	6 <sup>1</sup> / <sub>4</sub> " -12	48	53.8	35	RRH-606
438	695	159	123.9	91.9	31	66	91	12	2 <sup>3</sup> / <sub>4</sub> " -16	19	6 <sup>1</sup> / <sub>4</sub> " -12	48	53.8	45	RRH-6010
165	203	212	165.1	127.0	38	44	126	12	4" -16	25	-	-	79.2	33	RRH-1001
254	330	212	165.1	127.0	38	85	126	12	4" -16	25	8 <sup>3</sup> / <sub>8</sub> " -12	60	79.2	61	RRH-1003
342	495	212	165.1	127.0	38	85	126	12	4" -16	25	8 <sup>3</sup> / <sub>8</sub> " -12	60	79.2	79	RRH-1006
460	717	212	165.1	127.0	38	85	126	12	4" -16	25	8 <sup>3</sup> / <sub>8</sub> " -12	60	79.2	106	RRH-10010
349	552	247	190.5	152.4	38	60	127	4	4 <sup>1</sup> / <sub>4</sub> " -12	25	-	-	79.2	111	RRH-1508


# RSM SERIES

Specifications

Inquiry

- Compact, flat design for use where most other cylinders
- RSM-750, 1000 and 1500 have handles for easy carrying
- Mounting holes permit easy fixturing
- Baked enamel finish for increased corrosion resistance
- Hard chrome plated high quality steel plungers
- Grooved plunger ends require no saddle



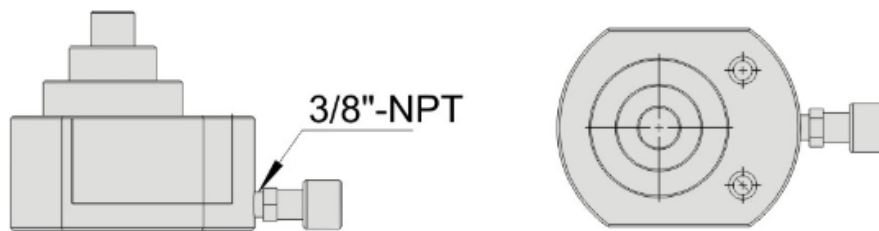
Cyl. Capacity ton (kn)	Stroke (mm)	Model	Cyl. Effect. Area (cm <sup>2</sup> )	Oil Cap. (cm <sup>3</sup> )	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Dia. E (mm)	Plunger Dia. F (mm)	Base to Advance Port H (mm)	Plunger Protrusion from Base K (mm)	Plunger to Base L (mm)	Plunger to Mtg. Hole M (mm)	Thread O (mm)	Thread Depth P (mm)	Bolt Circle U (mm)	 (kg)
5 (45)	6	RSM-50	6.5	4	32	38	58 x 41	28.7	25.4	16	1	20	22	-	-	-	1.0
10 (101)	12	RSM-100	14.5	18	42	54	82 x 55	42.9	38.1	19	1	27	34	-	-	-	1.4
20 (201)	11	RSM-200	28.7	32	51	62	101 x 76	60.5	50.8	19	1	39	39	-	-	-	3.1
30 (295)	13	RSM-300	42.1	55	58	71	117 x 95	73.2	63.4	19	2	47	44	-	-	-	4.5
45 (435)	16	RSM-500	62.1	99	66	82	140 x 114	88.9	69.8	19	2	57	53	-	-	-	6.8
75 (718)	16	RSM-750	102.6	164	79	95	165 x 139	114.3	82.6	19	2	69	66	-	-	-	11.3
90 (887)	16	RSM-1000	126.7	203	85	101	178 x 153	127.0	92.2	19	2	76	74	-	-	-	14.5
150 (1386)	16	RSM-1500	198.1	317	100	116	215 x 190	158.8	114.3	23	2	95	82	-	-	-	26.3


# RSMB SERIES

Specifications

Inquiry

- Compact, flat design to use the place of most other cylinders will not fit
- Single-acting, gravity retraction
- Mounting holes permit easy fixturing
- Baked enamel finish for increased corrosion resistance
- Hard chrome plated high quality steel plungers
- Grooved plunger ends require no saddle



Model	Output (T)	Stroke (mm)	Collapsed Height (mm)	Oil Cap. (cc)	Extended Height (mm)	Outside Diameter X Flat side (mm)	 (kg)
RSMB-100	10	25	42	22	67	Ø82×55	1.5
RSMB-200	20	26	51	41	77	Ø101×76	2.4
RSMB-300	30	53	58	58	111	Ø117×95	4.5
RSMB-500	50	64	66	113	130	Ø140×114	7.0

# SMC SERIES



Specifications

Inquiry

- Light in weight
- Lifting height with precisely +/- 0.01mm
- Thin, Portable and flat design, workable for any restricted places

Model	Capacity	Stroke	Effective Area	W	CollapsH
	(ton)	(mm)	(mm <sup>2</sup> )	(kg)	(mm)
SMC0525	5	25	8.02	2	52
SMC1025	10	25	13.85	3	54
SMC2005	20	5	28.27	2	35
SMC3005	30	5	38.49	3	36
SMC5005	50	5	66.48	4	40



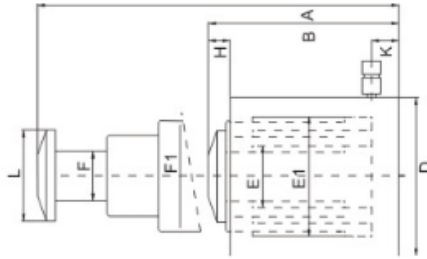
# TC SERIES

Specifications

Inquiry

● Max Working Pressure: 700 Bar

● Telescopic Design, single-acting



Model	Cap	Stage	Stroke	Collaps H	Effective Area	Oil Cap	B	A	W	E1	F	F1	L	K	H
	(ton)		(mm)												
TC10-2	10	2	270	250	15.9	810	250	520	18	75	36	68	50	20	26
		1	135		44.15										
TC10-3	10	3	435	280	15.9	2250	280	715	40	110	36	95	75	21	19
		2	290		44.15										
		1	145		95										
TC15-2	15	2	300	280	23.7	1308	280	580	28	90	50	80	66	25	16
		1	150		63.5										
		3	510		23.7										
TC15-3	15	2	340	320	63.5	3543	320	820	60	125	50	110	95	25	19
		1	170		122.6										
		2	300		44.15										
TC30-2	30	1	150	304	95	2088	304	604	45	110	68	100	89	27	18
		2	300		44.15										
TC30-3	30	3	600	366	44.15	6803	366	966	106	160	68	150	123	27	20
		2	400		95										
		1	200		201										


## Specifications

# LASTEKO ELECTRIC PUMP

- 110V/220V/380V are available
- Lasteko electric pump is specially for hydraulic cylinder of max. pressure 700 Bar
- Lasteko electric pump is assembled using Germany components fitted with various size of oil reservoirs
- Both single-acting & double-acting are possible



Model	Valve	Cylinder Optional	Max Flow	Oil Cap	Voltage	Power		
			(L/min)	(L)	(V)	(KW)		
MD112-1	Manual Valve	Double Acting	1	12	1-220V	1.5		
MD220-1			2	20	1-220V	3		
MS112-1	Manual Valve	Single Acting	1	12	1-220V	1.5		
MS220-1			2	20	1-220V	3		
SS112-1	Solenoid Valve		1	12	1-220V	1.5		
SS112-3			1	12	3-380V	1.5		
SS212-1			2	12	1-220V	3		
SS212-3			2	12	3-38V	2.2		
SS120-1			1	20	1-220V	1.5		
SS120-3			1	20	3-380V	1.5		
SS220-1			2	20	1-220V	3		
SS220-3			2	20	3-380V	2.2		
SD112-1			Solenoid Valve	Double Acting	1	12	1-220V	1.5
SD112-3					1	12	3-380V	1.5
SD212-1	2	12			1-220V	3		
SD212-3	2	12			3-380V	2.2		
SD120-1	1	20			1-220V	1.5		
SD120-3	1	20			3-380V	1.5		
SD220-1	2	20			1-220V	3		
SD220-3	2	20			3-380V	2.2		

Cylinder Capacity	Stroke	Model Number	Cyl. Effect. Area	Oil Cap.	Coll. Height	Ext. Height	Out. Dia.	Cyl. Bore Dia.	Pigr. Dia.	Cyl. Base to Advance Port	Saddle Dia.	Saddle Protrusion from Pigr.	Plunger Internal Thread	Plunger Thread Length	Collar Thread	Collar Thread Length	Center Hole Dia.	
ton (kn)	(mm)		(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	O	P (mm)	W	X (mm)	Y (mm)	(kg)
13(125)	8	RCH-120	17.9	14	55	63	69	54.1	35.1	9	-	-	3/4" -16 UN	16	2 3/4" -16	30	19.6	1.5
	42	RCH-121*	17.9	75	120	162	69	54.1	35.1	25	-	-	-	-	2 3/4" -16	30	19.6	2.8
	42	RCH-1211	17.9	75	120	162	69	54.1	35.1	25	-	-	3/4" -16 UN	16	2 3/4" -16	30	19.6	2.8
	76	RCH-123	17.9	136	184	260	69	54.1	35.1	25	-	-	-	-	2 3/4" -16	30	19.6	4.4
20(215)	49	RCH-202*	30.7	150	162	211	98	73.1	54.1	19	54	9.7	1 9/16" -16 UN	19	3 7/8" -12	38	26.9	7.7
	155	RCH-206	30.7	476	306	461	98	73.1	54.1	25	54	9.7	1 9/16" -16 UN	19	3 7/8" -12	38	26.9	14.1
30(326)	64	RCH-302*	46.6	298	178	242	114	88.9	63.5	21	63	9.0	1 3/16" -16 UN	22	4 1/2" -12	42	33.3	10.9
	155	RCH-306	46.6	722	330	485	114	88.9	63.5	25	63	9.0	1 3/16" -16 UN	22	4 1/2" -12	42	33.3	21.8
60(576)	76	RCH-603*	82.3	626	247	323	159	123.9	91.9	31	91	12.0	2 3/4" -16 UN	19	6 1/4" -12	48	53.8	28.1
	153	RCH-606	82.3	1259	323	476	159	123.9	91.9	31	91	12.0	2 3/4" -16 UN	19	6 1/4" -12	48	53.8	35.4
95(931)	76	RCH-1003*	133.0	1011	254	330	212	165.1	127.0	38	126	12.0	4" -16 UN	25	8 3/8" -12	60	79.0	63.0

Specifications

Inquiry

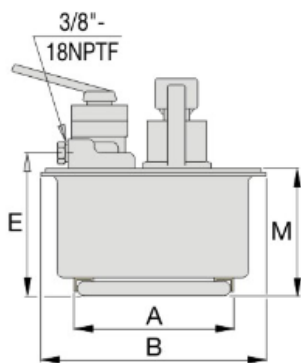


- All air pumps are designed to be used with single acting cylinders
- High pressure air hydraulic foot pumps feature rugged construction built for long life and easy service
- Built-in safety valve ensuring operating safety against overloading

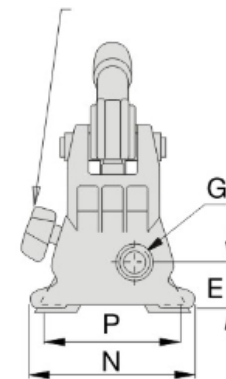
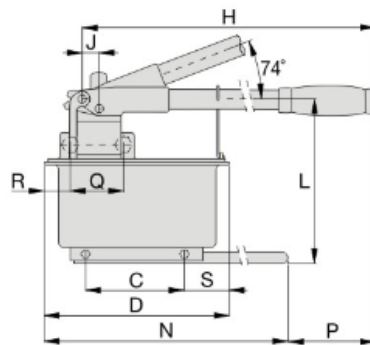
Model	Usable Oil	Pneumatic Output	Air Pressure	Packing Size	Weight
	cm <sup>3</sup>	kg/psi	bar/psi	mm	kg
AFP-700A	690	700/1000	8/120	370*180*190	10
AFP-700B	1700	700/1000	8/120	280*150*200	12

## Specifications

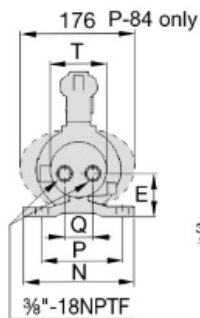
- Reduced handle effort and ergonomic grip for less operator fatigue
- Quick grip handle allows for easy transport
- Hand pump by foot operated is available
- Two-speed operation for fast and easy operation
- 4-way valving on the P-84 and P-464 for operation of double-acting cylinders



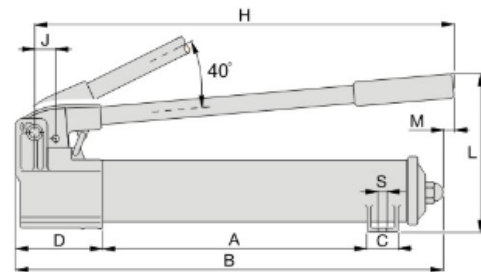
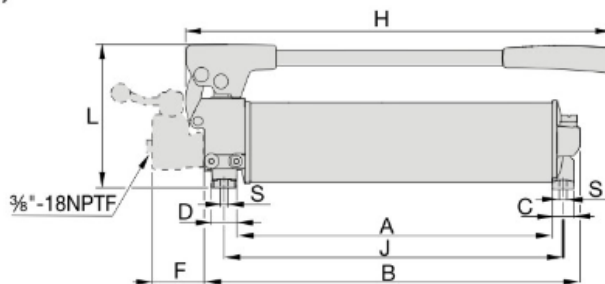
P-462, P-464



P-392



P-80, P-84

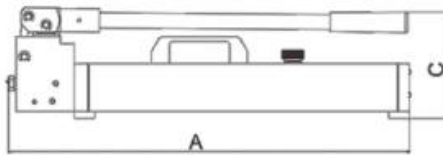


Model	Usable Oil (cm <sup>3</sup> )	Type	Pressure (bar)		Oil Cap(cm <sup>3</sup> )		Dimensions(mm)			Weight (kg)	Oil Port (NPT)
			1st Stage	2nd Stage	1st Stage	2nd Stage	A	D	H		
P-142	500	Single Acting	10	700	3.5	0.7	340	160	110	2	3/8
P-392	1000		12	700	11.4	2.3	540	190	120	3.15	3/8
P-400	3000		15	700	11.4	2.3	660	190	150	7	3/8
P-462	7423		14	700	12622	4.75	650	308	280	28	3/8
P-462XL	10000		14	700	12622	4.75	650	308	280	35.8	3/8
P-80	2200		25	700	16.22	2.46	545	170	148	11	3/8
P-801	4080	Double Acting	25	700	16.22	2.46	659	174	146	15	3/8
P-84	2200		25	700	16.22	2.46	545	170	148	11.8	3/8
P-841	4080		25	700	16.22	2.46	675	174	146	14.9	3/8
P-464	7423		14	700	12622	4.75	650	308	280	28	3/8
P-464XL	10000		14	700	12622	4.65	650	308	280	36.8	3/8

Specifications

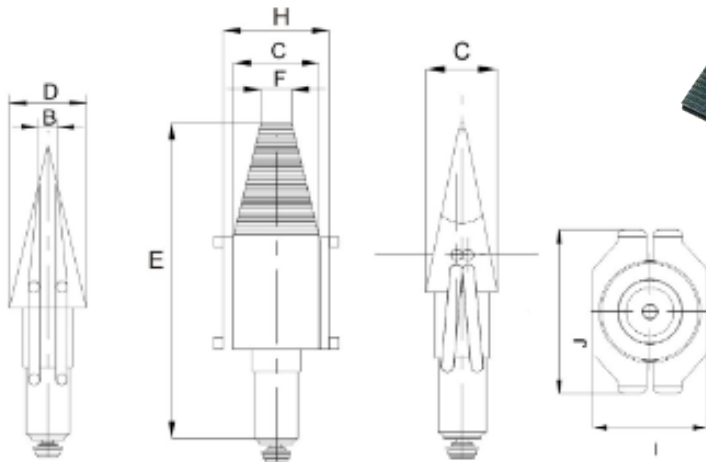
Inquiry

- Two speeds operation, increasing the work efficiency
- Light weight and compact design
- With safety valve inside, providing safe dual protection



ModelNo	Usable Oil (cm <sup>3</sup> )	Pressure Rating (Bar)		Oil capacity(cm <sup>3</sup> )		Dimension (mm)			Oil Port	W (kg)
		1st Stage	2nd Stage	1st Stage	2nd Stage	A	B	C		
HPP-1000	2000	30	1000	31	1.65	700	150	190	G1/4"	8
HPP-1500	2000	20	1500	16	1	700	150	190		10
HPP-2000	3000	20	2000	31	1.2	720	130	240		12
HPP 2800	2000	20	2800	18	2.6	730	150	190		14

- Vertical lifting Loaded
- Easy for operation, light weight and much workable in limited space
- Apply gap 5-40mm

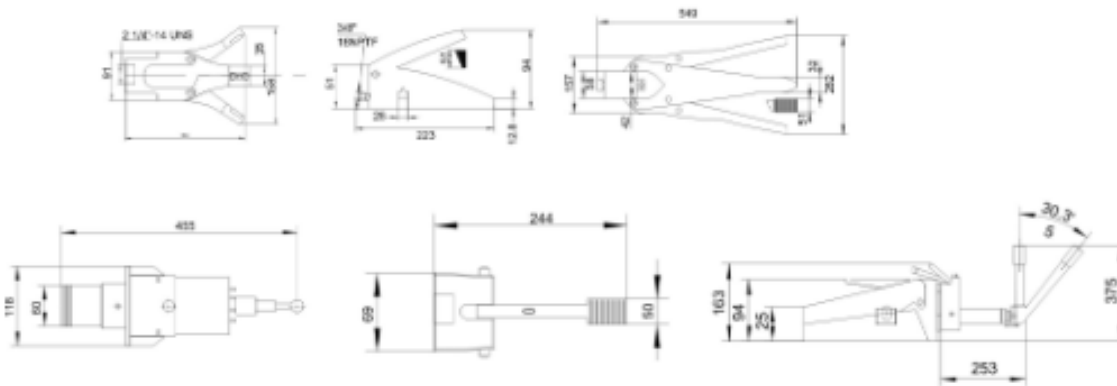


Model	Cap	Stroke	Spread (mm)		C	D	E	F	G	H	I	J	W
	Ton	(mm)	Min-A	Max-B	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
SP-15	15	25	6	16	36	46	232	31	45	55	63	63	3.3
SP-15L	15	25	6	16	36	46	232	31	45	55	63	63	3.3
SP25	25	65	8	25	43	59	342	50	70	82	70	102	7.8

## Specifications

## Inquiry

- WR-5 for use in very confined space
- WR-3 integrated pump offers portable power
- WR-15 for long stroke spreading applications
- Single acting, spring return
- A-92 spreader attachment

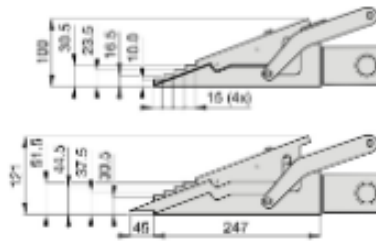
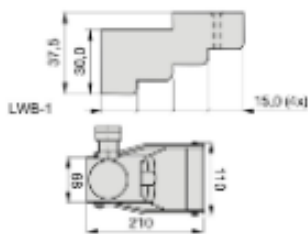


Model	Cap (ton/kn)	Tip Clearance (mm)	Max Spread (mm)	Cylinder Effective Area (cm <sup>2</sup> )	Oil Cpa (cm <sup>3</sup> )	W (kg)
WR-5	1/9	12	94	6.5	10	3
WR-13	1.5/12	25	94	144	X	13
WR-15	0.75/6	32	292	145	64	12
A-92	1/9	35	158	X	X	4

**Specifications**

**Inquiry**

- Requires very small access gap of 10mm
- Lifting force 16 ton at 700 bar
- Each step can spread under full load
- Single acting, spring return
- Including safety block SB-2



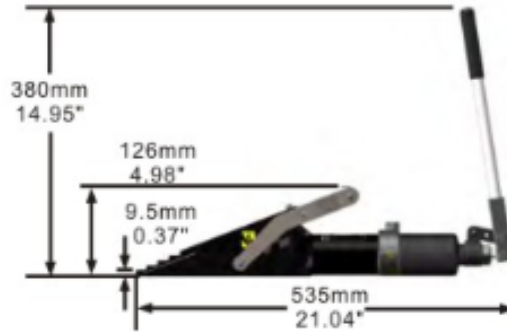
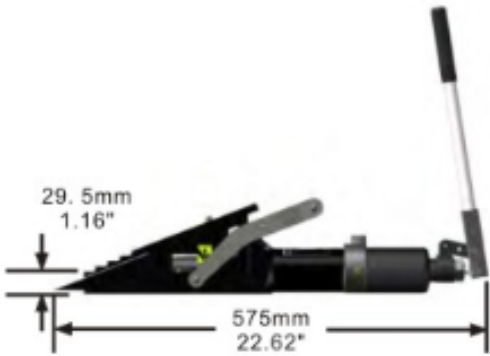
Maximum Lifting Force ton (kn)	Lifting Stroke (mm)	Model	Tip Clearance (mm)	Maximum Operating Pressure (bar)	Oil Capacity (cm <sup>3</sup> )	 (kg)
16 (157)	21	LW-16	10	700	78	9.0



Specifications

Inquiry

- Requires very small access gap of 10mm
- Each step can spread under full load
- Single acting, spring return



Model	Max Force (ton)	Tip Clearance (mm)	Stroke (mm)	Max Spread (mm)	Weight (kg)
LW 18	18	10	21	81	13

# DNS SERIES NUT SPLITTER

Specifications

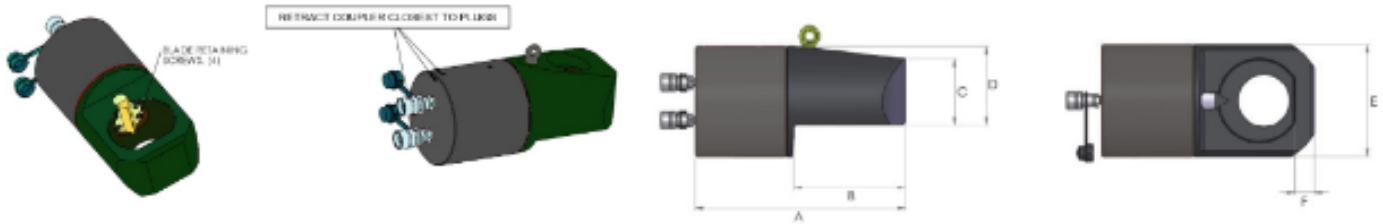
Inquiry



Working pressure 700 Bar

Double acting design

Splitting blades are easy to remove and re-install after re-sharpening or when a replacement blade is required



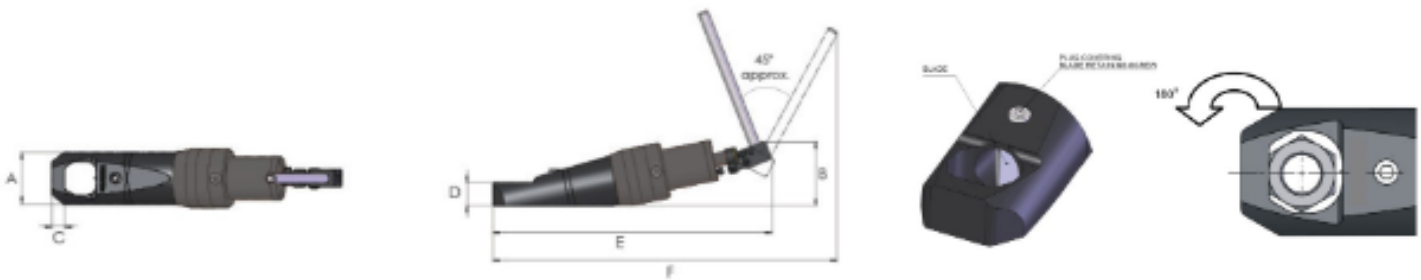
Model	HexagonAF Sizes		Stud Bolt Thread Sizes		W(kg)	Dimension(mm)					
	mm	inch	metric	imperial		A	B	C	D	E	F
DNS75105	75 - 105	2 15/16" - 4 1/4"	M48 - M72	1 7/8" - 2 3/4"	51	379.5	192	99.5	130.5	183	34
DNS105135	105 - 135	4 1/4" - 5 3/8"	M72 - M95	2 3/4" - 3 1/2"	98	451	240	140	167.5	235	41

**Specifications**

**Inquiry**



- Angled body design on all models
- Manufactured from high quality steel
- Provides necessary clearance on flanges and flat surfaces
- All models incorporate an integral hydraulic pump with multi-positional lever for even greater versatility



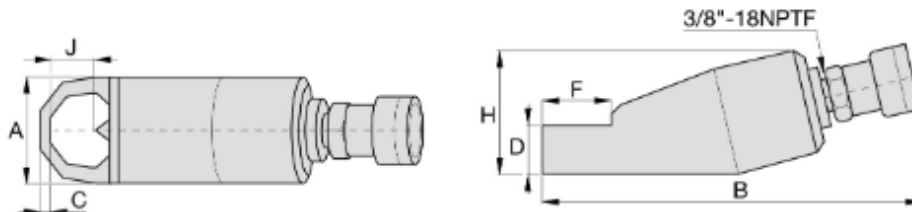
Model	Hexagon AF Sizes		Bolt Sizes		W (kg)	Dimension(mm)					
	mm	inch	mm	imperial		A	B	C	D	E	F
HNS2432	17 - 32	11/16" - 1 1/4"	M10 - M22	1/2" - 3/4"	5	64	88	125	30	380	455
HNS3241	32 - 41	1 1/4" - 1 5/8"	M22 - M27	3/4" - 1"	7	78	101	20	37	440	540
HNS4150	41 - 50	1 5/8" - 2"	M27 - M33	1" - 1 1/4"	11	94	112	21	43	471	566

Specifications

Inquiry



- Unique angled head design
- Compact and ergonomic design, easy to use
- Single-acting, spring return cylinder
- Heavy duty chisels can be reground
- Nut Splitters include spare chisel, spare set screw and wrench used to secure the chise

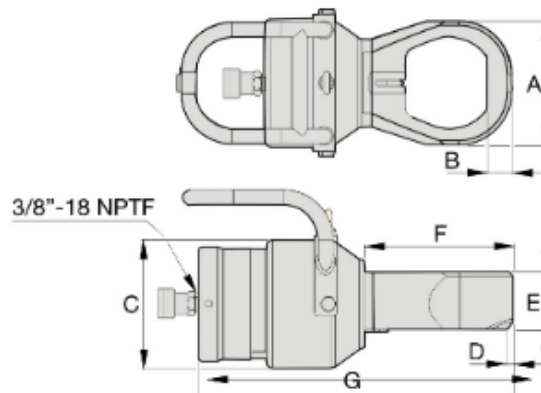


Bolt Range (mm)	Hexagon Nut (mm)	Capacity ton (kN)	Oil Capacity (cm <sup>3</sup> )	Model Number	Dimensions (mm)							Weight (kg)	Replacement Chisel Model Number
					A	B	C	D	F	H	J		
M6 - M12	10 - 19	5 (49)	15	NC-1319	40	170	7	19	28	48	21	1.2	NCB-1319
M12 - M16	19 - 24	10 (98)	20	NC-1924	54	191	10	26	40	62	25	2.0	NCB-1924
M16 - M22	24 - 32	15 (147)	60	NC-2432	64	222	13	29	51	72	33	3.0	NCB-2432
M22 - M27	32 - 41	20 (196)	80	NC-3241	75	244	17	36	66	88	43	4.4	NCB-3241
M27 - M33	41 - 50	35 (343)	155	NC-4150	94	288	21	45	74	105	54	8.2	NCB-4150
M33 - M39	50 - 60	50 (490)	240	NC-5060	106	318	23	54	90	128	60	11.8	NCB-5060
M39 - M48	60 - 75	90 (882)	492	NC-6075	156	393	26	72	110	181	80	34.1	NCB-6075

Specifications

Inquiry

- Specially designed to suit standard ANSI B16.5 / BS1560 flanges
- Single-acting (spring return) or double-acting cylinder
- Grip tape and handle included for more secure manoeuvrability
- Tri-blade technology provides three cutting surfaces on a single blade
- Internal Pressure Relief Valve for overload protection
- Nickel-plated cylinder body for excellent corrosion protection and improved durability in harsh environments



Bolt Range (mm)	Nut Range (mm)	Capacity ton (kn)	Oil Cap (cm <sup>3</sup> )	Model	Dimensions							Hydraulic Cylinder (kg)	Cutting Head	Replace- ment Blade	
					A	B	C	D	E	F	G				
M45 - M52	70 - 80	103 (917)	377	NS-7080	132	28	180	8.0	81	186	412	37.0	NSC-70	NSH-7080	NSB-70
M45 - M56	70 - 85	103 (917)	377	NS-7085	145	30	180	8.0	81	196	422	37.0	NSC-70	NSH-7085	NSB-70
M45 - M64	70 - 95	103 (917)	377	NS-7095	160	32	180	8.0	81	201	432	38.5	NSC-70	NSH-7095	NSB-70
M45 - M72	70 - 105	103 (917)	377	NS-70105	174	35	180	9.0	81	209	443	39.5	NSC-70	NSH-70105	NSB-70
M76 - M80	110 - 115	193 (1711)	819	NS-110115	189	36	234	3.7	111	234	472	69.0	NSC-110	NSH-110115	NSB-110
M76 - M90	110 - 130	193 (1711)	819	NS-110130	219	41	234	2.5	111	242	493	71.5	NSC-110	NSH-110130	NSB-110