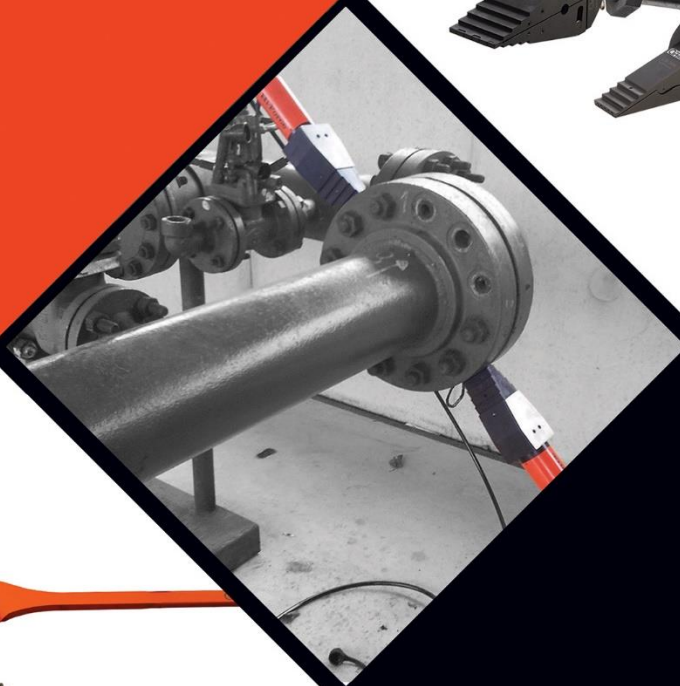


Artiman

Hydraulic Tools



طراحی و ساخت تجهیزات هیدرولیک صنعتی و نجات

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SDT/SQUARE Hydraulic
Torque Wrenches page 13-16



HDT/HEXAGON Hydraulic
Torque Wrenches page 17-24



Electric Pumps page 25



شرکت نیروساز هیدرولیک آرتیمان با سال ها تجربه در طراحی و ساخت تجهیزات تخصصی هیدرولیک صنعتی و نجات، توانسته است در مدت کوتاهی با بهره گیری از دانش فنی روز دنیا، نوآوری مستمر و شناخت دقیق از نیاز صنایع، جایگاهی معتبر در این حوزه به دست آورد.

محصولات تولیدی این شرکت جزو کاربردی ترین صنایع زیر بنایی و انرژی (نفت و گاز و پتروشیمی و پالایش) می باشد.

این شرکت توانایی تولید ابزارهای صنعتی کاربردی مورد استفاده در صنایع گوناگون با قدرتی انعطاف پذیر و قابل کنترل حداکثر تا ۳۰۰۰ بار را دارا می باشد.

هدف این شرکت بومی سازی ابزارهای هیدرولیک صنعتی و پیاده سازی راهکارهای سیستماتیک در صنایع مختلف می باشد تا نیاز به کالاهای خارجی را در بخش های مختلف صنایع برطرف سازد. ابزارهای آرتیمان این توان را به اپراتور می دهد تا نیروهای هیدرولیکی عظیم کاربردی و کنترل شده را به صورت ایمن حتی در نامساعدترین شرایط بکار گیرد.

امکان تولید کلیه محصولات به صورت سفارشی متناسب با نیاز کارفرما وجود دارد.

محصولات آرتیمان شامل ۱ سال کارانتی و ۱۰ سال خدمات پس از فروش می باشند.

Hydraulic foundry Wedge page 26



Hydraulic Jacks page 27-36



System Components page 37-41



Single Acting Hydraulic Nut Cutter- NC

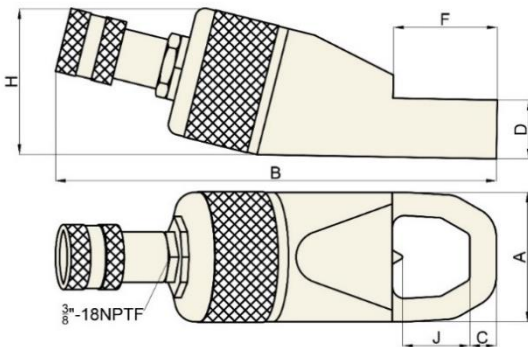
مهره بر هیدرولیکی



NC series

- Single acting, spring return cylinder
- Unique angled head design
- Compact and ergonomic design, easy to use
- Applications include service trucks, piping industry, petrochemical, steel construction, mining, etc
- Max working pressure 700 bar
- Maximum allowable hardness to split is HRC-40
- Not to be used on square nuts.
- A CR-400 Coupler is standard.

NUT CUTTER BOX



Tool and pump sets

Hydraulic Nut cutter are available as sets (pump, tool, gauge, gauge adaptor, couplers, hoses) For your ordering convenience.

Nut Cutter Model	Bolt Range (mm)	Hexagon Nut Range	Capacity (ton)	Oil Capacity (cm ³)	Weight (kg)	Dimension (mm)							Hand Pump model	Replacement Blade Number
						A	B	C	D	F	H	J		
NC 1319	M8-M12	13-19	5	15	1.2	40	170	7	19	28	48	21	P392	NC.B 1319
NC 1924	M12-M16	19-24	10	20	2.0	54	191	10	26	40	62	25	P392	NC.B 1924
NC 2432	M16-M22	24-32	15	60	3.0	64	222	13	29	51	72	33	P392	NC.B 2432
NC 3241	M22-M27	32-41	20	80	4.4	75	244	17	36	66	88	43	P392	NC.B 3241
NC 4150	M27-M33	41-50	35	155	8.2	94	288	21	45	74	105	54	P392	NC.B 4150
NC 5060	M33-M39	50-60	50	240	11.8	106	318	23	54	90	128	60	P392	NC.B 5060
NC 6075	M39-M48	60-75	90	492	34.1	156	393	26	72	110	181	80	P392	NC.B 6075

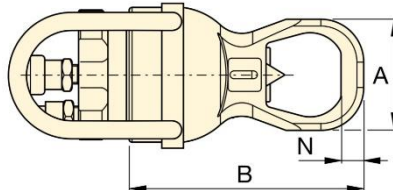
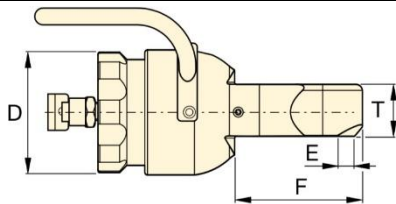
Double Acting Hydraulic Nut Splitters- DNS



مهره بر هیدرولیکی سنگین (استاندارد سازی بر اساس انریک)

- Bolt Range from M45-M90
- Hexagon Nut Range 70-130 mm
- Maximum Operating Pressure 700 bar

Nut Splitter Model	Blade Part Number	Capacity (ton)	Oil Capacity (cm ³)	Hexagon Nut Range (mm)	Bolt Range (mm)	Dimension (mm)							Weight (kg)
						A	B	D	E	F	N	T	
DNS 4041	DNS.B 404	105	550	70-80	M45-M52	132	308	190	7	189	28	81	42
DNS 4042	DNS.B 404	105	550	70-85	M45-M56	145	323	190	15	200	30	81	43
DNS 4043	DNS.B 404	120	550	70-95	M45-M64	160	331	190	11	200	32	81	44
DNS 4044	DNS.B 404	120	550	70-100	M45-M70	174	342	190	11	204	35	81	44
DNS 5061	DNS.B 506	140	1100	110-115	M76-M80	189	365	235	4.5	230	36	111	70
DNS 5062	DNS.B 506	180	1100	110-130	M76-M90	219	393	235	3	246	36	111	82



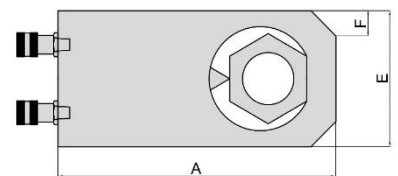
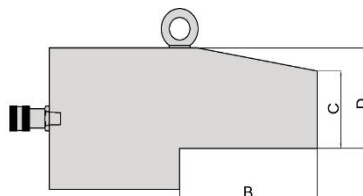
Double Acting Hydraulic Nut Splitters- DNS

مهره بر هیدرولیکی سنگین (استاندارد سازی بر اساس هایفورس)

- Bolt Range from M48-M95
- Hexagon Nut Range 75-136 mm
- Maximum Operating Pressure 700 bar

Nut Splitter Model	Blade Part Number	Capacity (ton)	Oil Capacity (cm ³)	Hexagon Nut Range (mm)	Hexagon Nut Range (inch)	Bolt Range (mm)	Bolt Range (inch)	Weight (kg)
DNS 404	DNS.B 404	119.6	796	75-105	2 15/16"-4	M48-M72	1 7/8"-2 3/4"	50
DNS 506	DNS.B 506	203.4	1510	105-136	4 1/4"-5 3/8"	M72-M95	2 3/4"-3 1/2"	96

Nut Splitter Model	Dimension (mm)					
	A	B	C	D	E	F
DNS 404	379.5	192	99.5	130.5	183	34
DNS 506	451	240	140	167.5	235	41



Bolt Tensioner-HSR

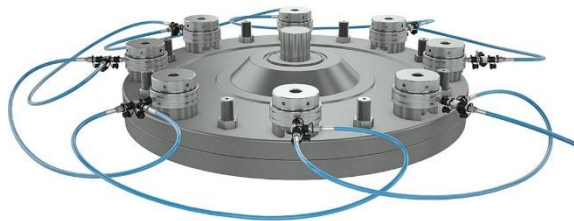
پیچ کش



The following products are made to order

- Subsea bolt Tensioner
- Multi-stage bolt Tensioner

Load Cell	Bolt Size		Tool Load KN	Effect Area mm ²	Maximum Stroke mm	Cylinder Retract	Maximum Working Pressure Bar	Weight Kg	A	B	C	D
HSR 0	3/4"	M20	160	1067	10	Manual retract	1500	2.5	66.8	92.5	63	113.5
	7/8"	M22								92.5	63	113.5
HSR 1	1"	M24	280	1867	10	Spring retract	1500	3.7	85	116.5	68	141.5
		M27								116.5	68	141.5
	1.1/8"	M30								119.5	76	144.5
HSR 2	1"	M24	450	3003	10	Spring retract	1500	5.5	103	116.5	75	141.5
		M27								116.5	75	141.5
	1.1/8"	M30								119.5	80	144.5
	1.1/4"	M33								122.5	84	147.5
	1.3/8"	M36								125.5	88.5	150.5
HSR 3	1.1/4"	M33	660	4400	10	Spring retract	1500	7.5	118	122.5	92	149.5
	1.3/8"	M36								125.5	96	152.5
	1.1/2"	M39								129	105	156
		M42								132	104.5	159
	1.5/8"											
HSR 4	1.1/2"	M39	1000	6669	10	Spring retract	1500	11.5	140.5	131.5	112	163.5
	1.5/8"	M42								134.5	114	166.5
	1.3/4"	M45								138	126	170
	1.7/8"	M48								141	123	173
	2"									144	128	176
HSR 5	2"	M52	1500	10002	10	Spring retract	1500	18.5	175.5	148	134	187
	2.1/4"	M56								154.5	148	193.5
		M60								154.5	148	195
	2.1/4"	M64								161	153	200
		M68								161	153	200
		M70								161	153	200
	2.3/4"									167	165	206
HSR 6	2.3/4"	M72	2500	16670	10	Spring retract	1500	33	219	167	172	216
	3"	M76								174	182	223
		M80								174	182	223
	3.1/4"	M85								180	190	229
	3.1/2"	M90								180	205	235
HSR 7	3.1/2"	M90	3200	21336	10	Spring retract	1500	47	252	186	230	241
		M95								186	230	241
	3.3/4"	M100								192	235	247
	4"									199	242	254
HSR 8	4"	M105	4100	27336	10	Spring retract	1500	63.5	283	199	255	264
		M110								199	255	264
	4.1/4"	M115								205	260	270
	4.1/2"									212	270	277



Flange Spreader- SW

فلنج بازکن گوه ای



Mechanical SW-8M



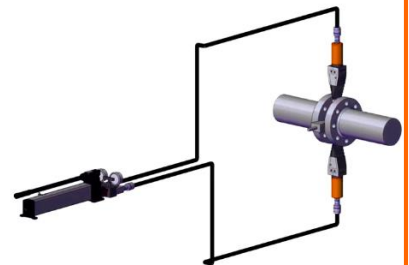
Hydraulic SW-14H

Flange Spreader box



Integral Pump SWP-14H

Two SW-14H spreaders used simultaneously With P392 handpump, hoses And AM-21 split-flow manifold.

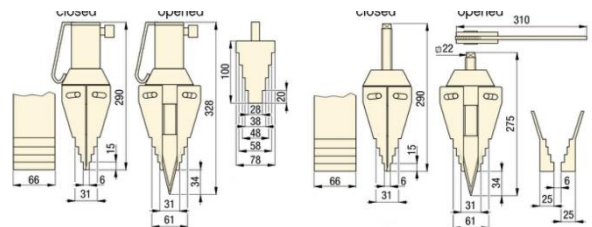


- Requires very small access gap of only 6 mm
- For maintenance, commissioning, shutdowns, testing and valve change outs.
- No need for hammers, chisels, slings or chainblocks
- Integrated wedge concept : Friction-free, smooth and parallel wedge movement eliminates flange damage and risk of spreading arm failure.
- Unique interlocking wedge design-no first step bending and risk of slipping out of joint.
- Stepped spreader arm design-each step can spread under full load.
- Max working pressure 700 bar

Tool and pump sets

The Hydraulic Flange spreader is available as sets (pump, tool, gauge, gauge adaptor, couplers, hoses)

For your ordering convenience.



Model	Maximum Spreading Force (ton)	Tip Clearance (mm)	Maximum Spread (mm)	Spreader Type	Oil Capacity (cm ³)	Hand Pump model	Weight (kg)
SW-14H	14	6	86	Hydraulic	78	P392	7.1
SW-8M	8	6	86	Mechanical	-	-	6.5
SWP-14H	14	6	86	Integral Pump	78	-	9

Hydraulic Flange spreader- SP

فلنج باز کن پنی



SP series

- Lightweight, ergonomic design for ease of use.
- Adjustable jaw widths from 70-216 mm for a wide range of applications.
- Single-acting, spring return RC-Series cylinder for fast trouble free operation.
- Max working pressure 700 bar

Tool and pump sets

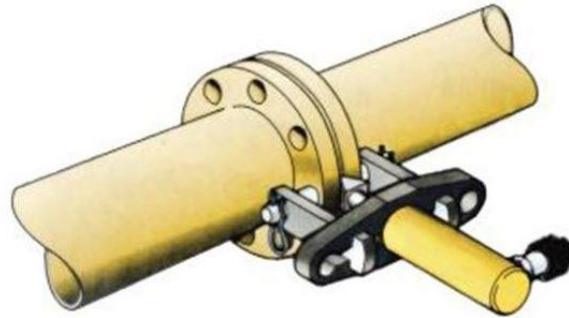
Both flanges spreaders are available as sets (pump, tool, gauge, gauge adaptor, couplers, hoses)

For your ordering convenience.



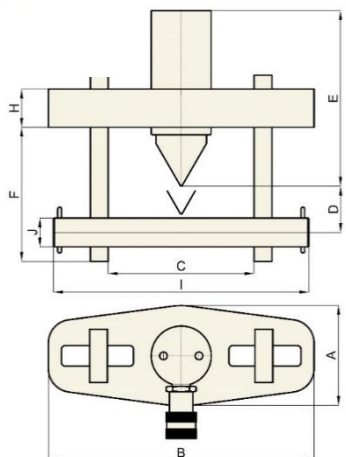
Flange Spreader Matching Chart

ASA Raiting (bar)	Pipe size (mm)	
	SP-5H	SP-10H
10	127-508	558-1066
20	63-355	406-711
27	63-304	355-609
35	63-254	304-508
62	12-152	203-406
103	12-88	101-203
172	12-63	76-101



Model	Maximum Flange Thickness (mm)	Stud Size (mm)	Standard Wedge (mm)	Capacity (ton)	Stroke (mm)	Hand Pump model	Oil Capacity (cm ³)
SP-5H	2x57	19-28	3-28	5	38	P392	24.6
SP-10H	2x92	31-41	3-28	10	54	P392	78.7

Dimensions (mm)										
Model	A	B	C		D	E	F	H	I	J
			Min	Max						
SP-5H	76	209	70	155	32	196	88	25	206	19
SP-10H	108	279	104	216	50	152	114	38	273	31



Hydraulic Vertical Lifting Wedge - LW

گوه بالابر عمودی هیدرولیکی

LW Series

- **Maximum Lifting Force**
16 ton
- **Lifting Stroke**
21 mm
- **Maximum Operating Pressure**
700 bar
- **Tip Clearance / Maximum Spread**
10 mm / 81.5 mm

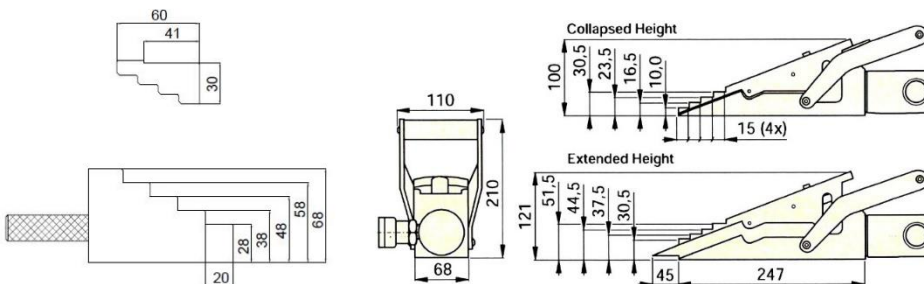


- Requires very small access gap of only 10 mm.
- Lifting force 16 ton at 700 bar hydraulic pressure.
- Each step can spread under full load.
- Straight vertical lifting .
- Unique interlocking wedge design: no first step bending and risk of slipping out
- Single-acting , spring return cylinder.
- Lifting wedge LW-16H includes safety block & step blocks
- Includes RC-Series Cylinder with CR-400 Coupler

Hydraulic vertical lifting wedge box



Model	Maximum Lifting Force ton(KN)	Lifting Stroke (mm)	Tip Clearance (mm)	Maximum Operating Pressure (bar)	Oil Capacity (cm ³)	Hand Pump model	(kg)
LW-16H	16 (157)	21	10	700	78	P392	9.0



For Lifting heavy equipment with minimum floor clearance the LW-16H is the ideal tool.

Hand Pump – P SERIES

پمپ دستی



P392 -P80



P80A



P801-P801E



P462-P464



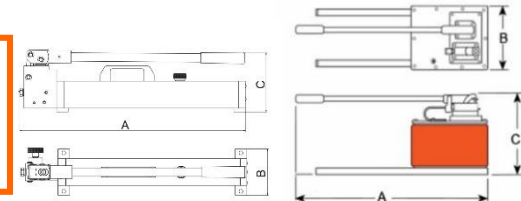
16P80-28P80



P84

Pump series

- wide oil capacity range, suitable for different applications
- two speed auto switch reduces manpower and increase efficiency
- non-conductive fiberglass handle for operator safety



Model	Usable oil capacity (L)	Pump type	Valve type	Size (mm)			Pressure rating (bar)		Oil displacement per stroke (mL)		Weight (Kg)
				A	B	C	1 st stage	2 nd stage	1 st stage	2 nd stage	
P392	1	Two speed	Single-acting	633	90	148	20	700	13	2.5	8
P80	2.5	Two speed	Single-acting	713	106	200	20	700	13	2.5	12
P80A	2.5	Two speed	Single-acting	582	108	165	25	700	32	2.5	11
P801	4.4	Two speed	Single-acting	577	220	190	25	700	32	2.5	14.5
P801E	6.4	Two speed	Single-acting	577	220	190	25	700	32	2.5	14.5
P462	7.5	Two speed	Single-acting	904	315	315	25	700	125	5.75	30
16P80	2	Two speed	Single-acting	577	120	170	15	1600	32	2.5	8.5
28P80	2	Two speed	Single-acting	636	120	170	20	2800	32	0.9	8.5
P84	2.5	Two speed	Double-acting	739	125	161	25	700	32	2.5	12
P464	7.5	Two speed	Double-acting	904	315	315	25	700	125	5.75	30

Valve wheel spanner

آچار ولو

آچار ولو های تولیدی شرکت آرتیمان با طراحی مهندسی شده و بهینه در بخش در گیر با فلکه ، حداکثر ایمنی و سهولت کاربردی را برای اپراتور فراهم می سازد و این طراحی باعث می شود احتمال آسیب به اپراتور به حداقل برسد .

این آچارها از فولاد آلیاژی ساخته شده و تحت عملیات حرارتی ویژه قرار میگیرند تا بالاترین سطح استحکام ، دوام و طول عمر را داشته باشند . همچنین فناوری تولید یکپارچه و بدون جوش تضمین کننده کیفیت برتر و مقاومت بالا در شرایط سخت صنعتی است.

مدل ها :

مدل یک سر VALVE WHEEL SPANNER SINGLE-END : در شش سایز استاندارد

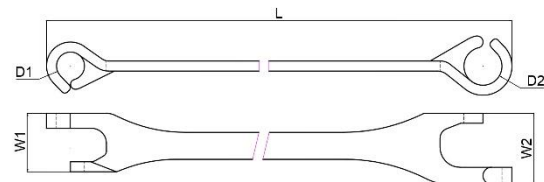
مدل دو سر VALVE WHEEL SPANNER DOUBLE-END : در دو سایز استاندارد

امکان تولید آچار با سایزهای سفارشی وجود دارد .

امکان تحویل آچار در جعبه های فلزی وجود دارد .

امکان تحویل با روکش لاستیکی در قسمت دسته آچار وجود دارد .

- باز کردن دریچه های مسدود شده، خورده شده و بیش از حد سفت شده با حداقل نیرو
- افزایش چند برابری نیروی اعمال شده نسبت به نیروی دست اپراتور
- اعمال نیروی موثر و ایمن به دلیل در گیری مناسب
- کاربرد وسیع در صنایع مختلف از جمله نفت و گاز، پالایشگاه، فولاد و امداد و نجات و



Spanner type	D1 (mm)	D2 (mm)	W1 (mm)	W2 (mm)	L (mm)	Small Size (Inch)	Large Size (Inch)	Weight (kg)
WS 2017-373-1610	16	20	32	44	370	1/2- 2	1-4	0.5
WS 3835-630-2825	28	38	59	71	630	3-8	7-12	1.6

Valve wheel spanner

آچار ولو



WS 16-075-10

کد آرتیمان

Up to 2 inch

سایز

2511530b02160001

ایران کد



WS 20-195-17

کد آرتیمان

1-4 inch

سایز

2511530b02160002

ایران کد



WS 28-340-25

کد آرتیمان

3-8 inch

سایز

2511530b02160003

ایران کد



WS38-450-35

کد آرتیمان

7-12 inch

سایز

2511530b02160004

ایران کد



WS 46-550-43

کد آرتیمان

11-16 inch

سایز

2511530b02160005

ایران کد



WS 54-800-50

کد آرتیمان

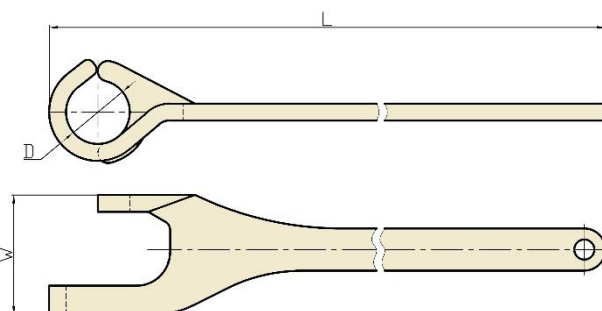
15-24 inch

سایز

2511530b02160006

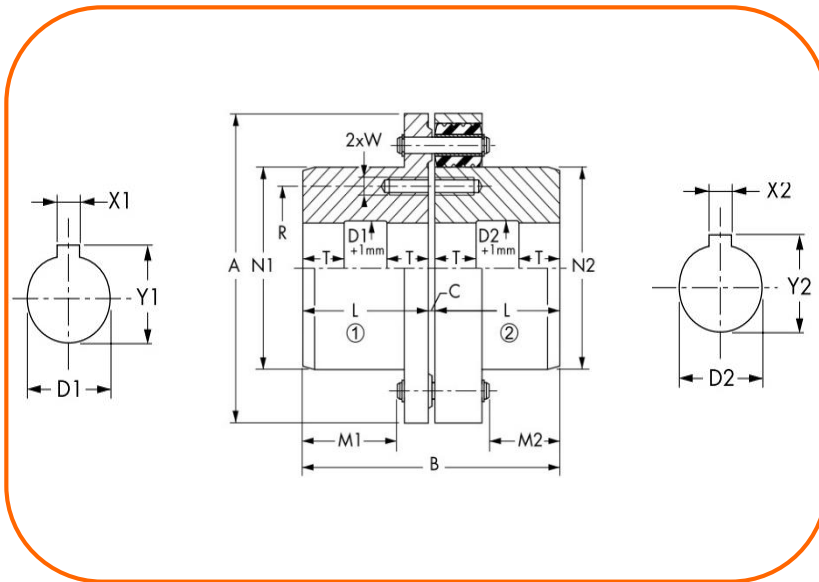
ایران کد

Spanner type	D (mm)	W (mm)	L (mm)	Size (Inch)	Weight (kg)
WS 16-075-10	16	32	230	Up to 2	0.2
WS 20-195-17	20	44	340	1-4	0.4
WS 28-340-25	28	58	460	3-8	0.8
WS 38-450-35	38	71	534	7-12	1.3
WS 46-550-43	46	92	700	11-16	2.4
WS 54-800-50	54	118	900	15-24	3.9



Flexible Coupling

کوپلینگ بوشی دار منعطف

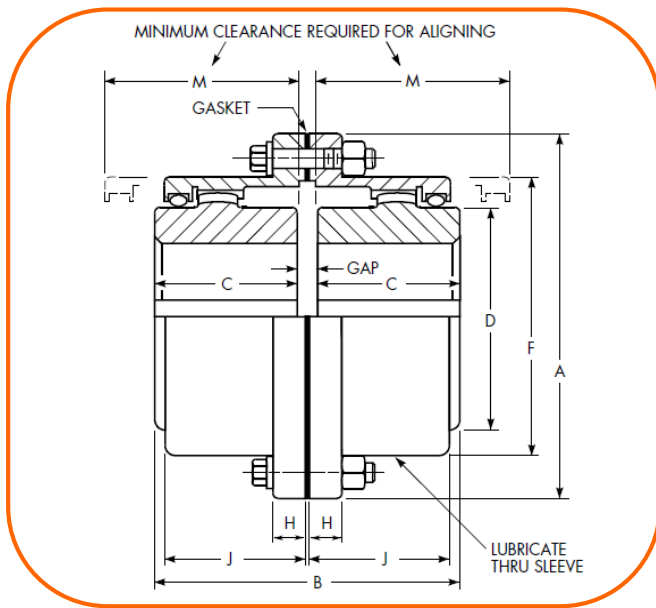


Dimensions (mm)

size	T _N (Nm)	n _{max} min ⁻¹	D1 D2 min.	D1 max.	D2 max.	A	B	C	L	M1	M2	N1	N2	T	R	W	J (Kg ^{m2})	m (Kg)
145LL	250	4700	19	60	55	145	113.5	3.5	55	36	16.5	93	88	-	75	M8	0.016	8
155LL	400	4400	19	65	60	155	123.5	3.5	60	41	21.5	100	95	-	80	M8	0.021	9
175LL	630	3900	28	75	75	175	153.5	3.5	75	56	36.5	116	116	-	95	M10	0.04	14
200LL	1000	3400	35	85	80	200	183.5	3.5	90	71	51.5	132	127	-	105	M10	0.071	21
235LL	1600	2900	35	95	90	235	204	4	100	65	48	147	142	-	120	M12	0.175	34
245LL	2500	2800	35	110	100	245	224	4	110	75	58	170	160	-	135	M12	0.235	42
280LL SS	3900	2450	85 35	125 85	110 85	280	264	4	130	95	78	195 155	180 155	-	145	M12	0.43 0.34	56 50
315LL SS	6100	2200	100 45	140 100	125 100	315	304	4	150	115	98	217 180	202 180	-	165	M12	0.72 0.59	76 71
355LL SS	9300	1950	120 75	160 120	140 120	355	365.5	5.5	180	129	108	248 210	228 210	-	190	M16	1.53 1.33	119 119
385LL SS	14000	1800	130 85	180 130	160 130	385	405.5	5.5	200	149	128	280 230	256 230	-	220	M16	2.41 1.95	161 150
460LL SS	21000	1500	140 95	200 160	200 160	460	445.5	5.5	220	169	148	290 250	290 250	-	232	M20	4.35 3.65	220 210
510LL SS	31000	1350	160 110	220 180	220 180	510	487	7	240	162	144	320 280	320 280	80	260	M20	8.5 7.6	315 310
575LL SS	45000	1200	160 125	230 190	230 190	575	527	7	260	182	164	330 290	330 290	85	300	M24	12.9 11.8	410 385
670LL SS	65000	1100	180 140	260 210	260 210	670	587	7	290	212	194	365 325	365 325	95	320	M24	23.5 21.5	560 540

Gear Coupling

کوپلینگ دنده ای



Dimensions (mm)

size	Torque Rating (Nm)	Allow speed RPM	Max Bore	Min Bore	Weight with no bore (kg)	A	B	C	D	F	H	J	M	GAP
1010G	1140	8000	50	13	4.54	115.9	89	43	68.6	83.8	14	38.9	51	3
1015G	2350	6500	65	20	9.07	152.4	102	49	86.4	105.2	19	47.8	61	3
1020G	4270	5600	78	26	15.9	177.8	127	62	105.2	126.5	19	59.4	77	3
1025G	7470	5000	98	32	29.5	212.7	159	77	130.6	154.9	21.8	71.6	92	5
1030G	12100	4400	111	39	43.1	239.7	187	91	152.4	180.3	21.8	83.8	107	5
1035G	18500	3900	134	51	68.0	279.4	219	106	177.8	211.3	28.4	97.5	130	6
1040G	30600	3600	160	64	97.5	317.5	247	121	209.6	245.4	28.4	111.3	145	6
1045G	42000	3200	183	77	136	346.1	278	135	235	274.1	28.4	122.9	166	8
1050G	56600	2900	200	89	191	388.9	314	153	254	305.8	38.1	140.7	183	8
1055G	74000	2650	220	102	249	425.4	344	168	279.4	334.3	38.1	158.0	204	8
1060G	90400	2450	244	115	306	457.2	384	188	304.8	366	25.4	169.2	229	8
1070G	135000	2150	289	127	485	527	451	221	355.6	424.9	28.4	195.6	267	10

SDT /SQURE DRIVE TORQUE WRENCHES

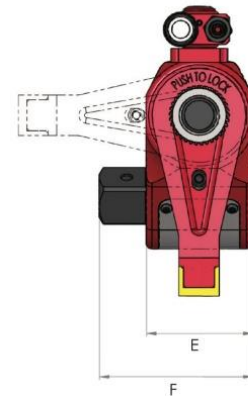
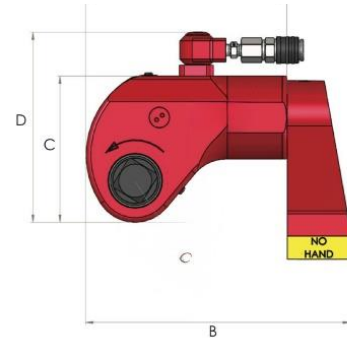
آچار ترک هیدرولیکی بکسی



Torque capacities up to 36992 Nm

Torque accuracy of +/- 3%

Working pressure 700 bar

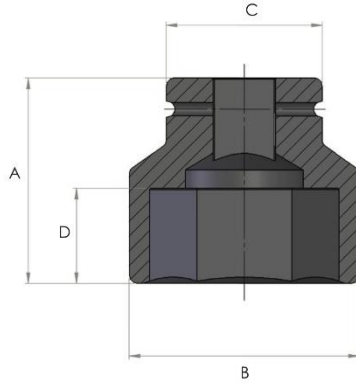


- Compact, lightweight aluminium body construction
- Output torque capacities from 1727 to 36992 Nm
- Choice of square drive sizes from 3/4" to 2 1/2 "
- Reversible square drive for tightening or loosening applications
- Multi-position reaction arm with safety lock feature
- Fitted with 360° uni-swivel quick release couplings for easy positioning of hydraulic hoses during operation
- High quality torque wrench sockets for use with SDT Range hydraulic wrenches are listed on pages 14 and 15
- Optional allen hex drives available from 1/2" to 2 1/4" and 14 to 60 mm (see page 15)

Model Number	Torque capacity		Square drive size	Weight including reaction foot (Kg)	Dimensions (mm)						
	Nm at 700 bar	lbf.ft at 10,000 psi			A	B	C	D	E	F	R
SDT17N	1727	1254	3/4 "	1.9	129	167	90	131	51	73	25
SDT45N	4529	3289	1 "	4.8	167	218	121	170	68	98	34
SDT100N	10064	7308	1 1/2 "	9.0	223	293	163	211	92	135	46
SDT150N	14974	10873	1 1/2 "	15.0	247	323	192	236	100	141	54
SDT370N	36992	26860	2 1/2 "	32.5	329	432	240	288	137	204	66

IS-IMPERIAL HEXAGON AF SIZE HEAVY DUTY SOCKETS

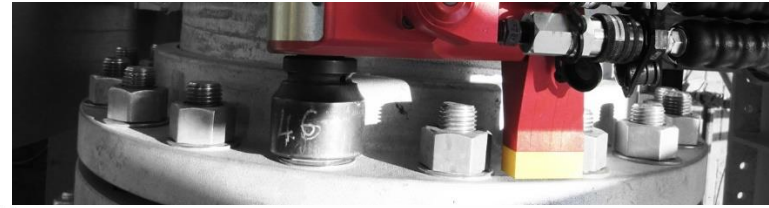
بکس آچار های هیدرولیک (شش ضلعی-بر اساس واحد اینچ)



Square drives from 3/4" to 2 1/2"

Across flat sizes up to 6 7/8"

Supplied complete with retaining ring and pin

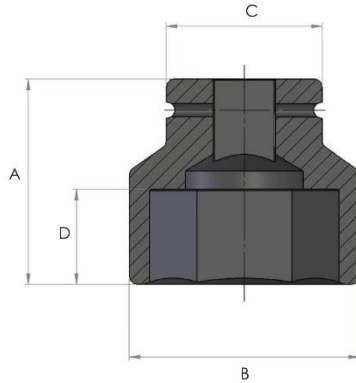


Model number	Square drive	Nut AF (inches)	Dimensions (mm)			
			A	B	C	D
IS2-101	3/4"	1 1/16"	52	40	38	16
IS2-104	3/4"	1 1/4"	52	44	44	20
IS2-107	3/4"	1 7/16"	56	51	44	23
IS2-110	3/4"	1 5/8"	62	58	44	27
IS2-113	3/4"	1 13/16"	68	67	44	32
IS2-200	3/4"	2"	72	71	54	35
IS2-203	3/4"	2 3/16"	74	77	54	35
IS2-206	3/4"	2 3/8"	75	84	54	35
IS9-101	1"	1 1/16"	58	44	51	17
IS9-104	1"	1 1/4"	60	51	51	21
IS9-107	1"	1 7/16"	62	56	52	26
IS9-110	1"	1 5/8"	62	62	52	26
IS9-113	1"	1 13/16"	64	68	58	27
IS9-200	1"	2"	70	74	58	31
IS9-203	1"	2 3/16"	72	80	62	32
IS9-206	1"	2 3/8"	78	87	62	35
IS9-209	1"	2 9/16"	80	93	62	36
IS9-212	1"	2 3/4"	85	98	62	40
IS9-215	1"	2 15/16"	95	104	86	48
IS9-302	1"	3 1/8"	100	109	86	52
IS9-308	1"	3 1/2"	105	125	86	52
IS9-314	1"	3 7/8"	105	136	95	52
IS5-113	1 1/2"	1 13/16"	84	76	86	27
IS5-200	1 1/2"	2"	87	82	86	29

Model number	Square drive	Nut AF (inches)	Dimensions (mm)			
			A	B	C	D
IS5-203	1 1/2"	2 3/16"	90	86	86	36
IS5-206	1 1/2"	2 3/8"	92	93	86	38
IS5-209	1 1/2"	2 9/16"	95	97	86	40
IS5-212	1 1/2"	2 3/4"	100	105	86	43
IS5-215	1 1/2"	2 15/16"	103	110	86	45
IS5-302	1 1/2"	3 1/8"	110	116	86	50
IS5-308	1 1/2"	3 1/2"	118	130	86	55
IS5-314	1 1/2"	3 7/8"	125	140	95	58
IS5-404	1 1/2"	4 1/4"	125	150	95	58
IS5-410	1 1/2"	4 5/8"	135	165	95	65
IS5-500	1 1/2"	5"	140	179	127	70
IS5-506	1 1/2"	5 3/8"	150	195	127	75
IS6-302	2 1/2"	3 1/8"	140	124	127	51
IS6-308	2 1/2"	3 1/2"	140	135	127	51
IS6-314	2 1/2"	3 7/8"	150	147	127	57
IS6-404	2 1/2"	4 1/4"	160	159	127	64
IS6-410	2 1/2"	4 5/8"	170	172	127	71
IS6-500	2 1/2"	5"	175	185	127	75
IS6-506	2 1/2"	5 3/8"	180	197	127	79
IS6-512	2 1/2"	5 3/4"	185	210	127	83
IS6-602	2 1/2"	6 1/8"	190	223	127	91
IS6-608	2 1/2"	6 1/2"	195	235	127	95
IS6-614	2 1/2"	6 7/8"	200	248	127	105

MS-METRIC HEXAGON AF SIZE HEAVY DUTY SOCKETS

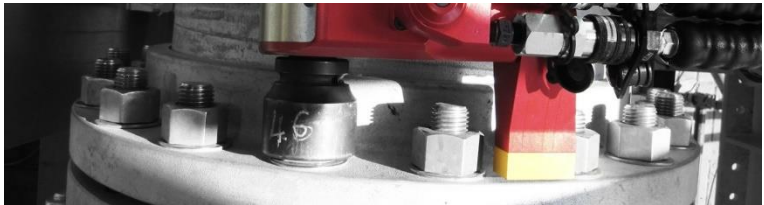
بکس آچار های هیدرولیک (شش ضلعی - بر اساس واحد میلیمتر)



Square drives from $\frac{3}{4}$ " to $2 \frac{1}{2}$ "

Across flat sizes up to 145 mm

Supplied complete with retaining ring and pin



Model number	Square drive	Nut AF (mm)	Dimensions (mm)			
			A	B	C	D
MS2-24	$\frac{3}{4}$ "	24	50	39	44	16
MS2-27	$\frac{3}{4}$ "	27	54	43	44	16
MS2-30	$\frac{3}{4}$ "	30	54	47	44	23
MS2-32	$\frac{3}{4}$ "	32	56	49	44	23
MS2-36	$\frac{3}{4}$ "	36	56	54	44	23
MS2-41	$\frac{3}{4}$ "	41	58	60	44	24
MS2-46	$\frac{3}{4}$ "	46	63	67	44	30
MS2-50	$\frac{3}{4}$ "	50	72	71	54	32
MS2-55	$\frac{3}{4}$ "	55	74	78	54	35
MS2-60	$\frac{3}{4}$ "	60	75	84	54	37
MS9-24	1"	24	58	42	54	17
MS9-27	1"	27	58	46	54	17
MS9-30	1"	30	60	50	54	21
MS9-32	1"	32	60	51	54	21
MS9-36	1"	36	65	56	54	30
MS9-41	1"	41	67	63	54	31
MS9-46	1"	46	74	69	54	36
MS9-50	1"	50	80	74	54	42
MS9-55	1"	55	84	80	54	44
MS9-60	1"	60	87	86	54	44
MS9-65	1"	65	90	92	54	46
MS9-70	1"	70	96	99	54	51
MS9-75	1"	75	98	106	86	45
MS9-80	1"	80	100	112	86	48
MS9-85	1"	85	105	118	86	52
MS9-90	1"	90	105	125	86	52
MS9-95	1"	95	115	131	86	52
MS9-100	1"	100	115	137	95	58

Model number	Square drive	Nut AF (mm)	Dimensions (mm)			
			A	B	C	D
MS5-36	1 $\frac{1}{2}$ "	36	78	64	86	23
MS5-41	1 $\frac{1}{2}$ "	41	80	70	86	26
MS5-46	1 $\frac{1}{2}$ "	46	84	76	86	27
MS5-50	1 $\frac{1}{2}$ "	50	87	81	86	29
MS5-55	1 $\frac{1}{2}$ "	55	90	86	86	36
MS5-60	1 $\frac{1}{2}$ "	60	92	93	86	38
MS5-65	1 $\frac{1}{2}$ "	65	95	97	86	40
MS5-70	1 $\frac{1}{2}$ "	70	100	105	86	43
MS5-75	1 $\frac{1}{2}$ "	75	103	110	86	45
MS5-80	1 $\frac{1}{2}$ "	80	110	116	86	50
MS5-85	1 $\frac{1}{2}$ "	85	118	125	86	55
MS5-90	1 $\frac{1}{2}$ "	90	118	130	86	55
MS5-95	1 $\frac{1}{2}$ "	95	118	137	95	55
MS5-100	1 $\frac{1}{2}$ "	100	125	140	95	58
MS5-105	1 $\frac{1}{2}$ "	105	125	150	95	58
MS5-110	1 $\frac{1}{2}$ "	110	125	156	95	58
MS5-115	1 $\frac{1}{2}$ "	115	135	160	95	65
MS5-130	1 $\frac{1}{2}$ "	130	140	185	127	70
MS6-80	2 $\frac{1}{2}$ "	80	140	124	127	51
MS6-85	2 $\frac{1}{2}$ "	85	140	130	127	51
MS6-90	2 $\frac{1}{2}$ "	90	145	136	127	54
MS6-95	2 $\frac{1}{2}$ "	95	145	143	127	54
MS6-100	2 $\frac{1}{2}$ "	100	150	149	127	57
MS6-105	2 $\frac{1}{2}$ "	105	155	155	127	61
MS6-110	2 $\frac{1}{2}$ "	110	160	161	127	64
MS6-115	2 $\frac{1}{2}$ "	115	165	167	127	67
MS6-130	2 $\frac{1}{2}$ "	130	175	188	127	75
MS6-145	2 $\frac{1}{2}$ "	145	185	208	127	83

SDT / ACCESSORIES

لوازم جانبی آچار هیدرولیک بکسی



- Imperial allen hex drives from 1/2" to 2 1/4" and metric allen hex drives from 14 to 60 mm
- Extended length arms with choice of length
- Handle kits for SDT to allow user to better support the tools during operation

For tool Model number	Imperial allen hexagon drive adaptors			Metric allen hexagon drive adaptors		
	Model number	Hexagon size	Maximum torque Load (Nm)	Model number	Hexagon size	Maximum torque Load (Nm)
SDT17N	IH17N-008	1/2"	470	MH17N-14	14 mm	740
	IH17N-010	5/8"	930	MH17N-17	17 mm	1350
	IH17N-012	3/4"	1600	MH17N-19	19 mm	1612
	IH17N-014	7/8"	1700	MH17N-22	22 mm	1700
	IH17N-100	1"	1700	MH17N-24	24 mm	1700
SDT45N	IH45N-010	5/8"	930	MH45N-17	17 mm	1100
	IH45N-012	3/4"	1600	MH45N-19	19 mm	1600
	IH45N-014	7/8"	2550	MH45N-22	22 mm	2550
	IH45N-100	1"	3800	MH45N-24	24 mm	3700
	IH45N-102	1 1/8"	4500	MH45N-27	27 mm	3900
	IH45N-104	1 1/4"	4500	MH45N-32	32 mm	4500
SDT100N	IH100N-014	7/8"	1890	MH100N-22	22 mm	2480
	IH100N-100	1"	3800	MH100N-24	24 mm	3700
	IH100N-102	1 1/8"	5440	MH100N-27	27 mm	4650
	IH100N-104	1 1/4"	7400	MH100N-30	30 mm	6380
	IH100N-106	1 3/8"	9920	MH100N-32	32 mm	7625
	IH100N-108	1 1/2"	10000	MH100N-36	36 mm	10000
SDT150N	IH150N-104	1 1/4"	7400	MH150N-30	30 mm	7000
	IH150N-106	1 3/8"	9900	MH150N-32	32 mm	7500
	IH150N-108	1 1/2"	15000	MH150N-36	36 mm	10900
	IH150N-110	1 5/8"	15000	MH150N-41	41 mm	15000
	IH150N-112	1 3/4"	15000	MH150N-46	46 mm	15000
SDT370N	IH370N-108	1 1/2"	12900	MH370N-36	36 mm	10000
	IH370N-110	1 5/8"	16300	MH370N-41	41 mm	16300
	IH370N-112	1 3/4"	20400	MH370N-46	46 mm	22500
	IH370N-114	1 7/8"	25100	MH370N-50	50 mm	30600
	IH370N-200	2"	30600	MH370N-55	55 mm	37000
	IH370N-204	2 1/4"	37000	MH370N-60	60 mm	37000



For tool Model number	Removable Handle kits	Extended reaction arms model	Length A		Diameter B	
			inch	mm	inch	mm
SDT17N	-	ERA17-21	21"	533	1 3/4"	44.5
		ERA17-24	24"	610	1 3/4"	44.5
		ERA17-36	36"	914	1 3/4"	44.5
SDT45N	TSH45	ERA45-21	21"	533	2 1/2"	63.5
		ERA45-24	24"	610	2 1/2"	63.5
		ERA45-36	36"	914	2 1/2"	63.5
SDT100N	TSH100	ERA100-21	21"	533	3 1/2"	88.9
		ERA100-24	24"	610	3 1/2"	88.9
		ERA100-36	36"	914	3 1/2"	88.9
SDT150N	TSH150	ERA150-21	21"	533	3 1/2"	88.9
		ERA150-24	24"	610	3 1/2"	88.9
		ERA150-36	36"	914	3 1/2"	88.9
SDT370N	TSH370	ERA370-21	21"	533	4 3/4"	120.6
		ERA370-24	24"	610	4 3/4"	120.6
		ERA370-36	36"	914	4 3/4"	120.6

HDT /HEXAGON DRIVE TORQUE WRENCHES

آچار ترک هیدرولیکی کاستی

Torque capacities up to 48181 Nm

Torque accuracy of +/- 3%

Working pressure 700 bar



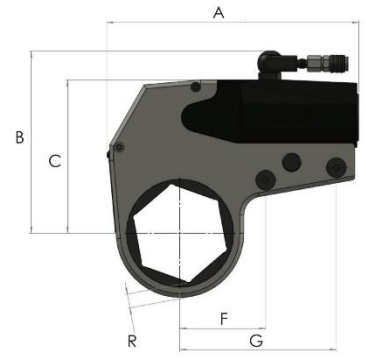
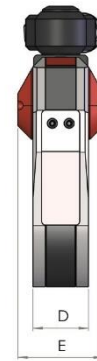
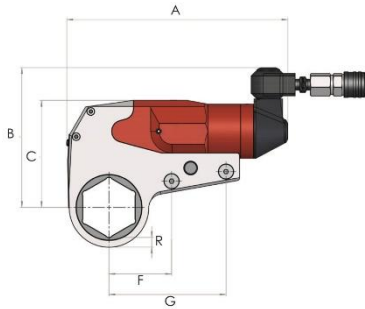
- Lightweight, high grade aluminum body (excluding HDT430N)
- Output torque capacities from 2625 to 48181 Nm.
- Low profile design for direct in-line reaction.
- Narrow cassette head design makes it ideal for limited access applications.
- Ratchet head can be easily changed by simply with drawing/inserting a single pin .
- Imperial ratchet heads are available with across flat (AF sizes) sizes from 1 1/16" to 6 6/8" (page 18)
- Metric ratchet heads are available with across flat (AF sizes) sizes from 24" to 175" (page 19)
- All models except the HDT430 are fitted with a multi-directional 360° x 360° swivel . HDT430N is fitted with a multi-directional 360° x 180° swivel. Both swivel are fitted with quick release couplings , and the multi-directional features enable easy positioning of hydraulic hoses during operation, preventing damage from pinching or kinking.

HDT27N, HDT54N, HDT120N, HDT210N

All models

HDT430N (steel body)

(aluminium body)



Model number	Torque capacity		Hexagon AF Size				Weight (kg)	Dimensions (mm)								
	Nm at 700 bar	lbs.ft at 10,000 psi	Metric		Imperial			A	B	C	D	E	F	G	R min	R max
			min	max	min	max										
HDT27N	2625	1906	24	46	1 1/16"	1 13/16"	1.4	193	125	97	32	51	54	109	9.5	12.2
	3068	2228	50	60	2"	2 3/8"	1.4	193	136	108	32	51	54	109	10.1	10.5
HDT54N	5372	3901	36	65	1 7/16"	2 9/16"	2.3	250	158	125	41	64	73	137	10.7	13.8
	6037	4384	70	80	2 3/4"	3 1/8"	2.3	250	169	136	41	64	73	137	11.7	14.6
HDT120N	11737	8522	50	80	2 3/16"	3 1/8"	3.8	310	189	157	52	78	92	172	14.7	15.2
	14349	10419	85	100	3 1/2"	3 7/8"	3.8	310	214	182	52	78	92	172	15.9	18.7
HDT210N	21216	15405	70	100	2 3/4"	3 7/8"	6.4	378	223	191	64	97	114	213	18.1	18.6
	23124	16791	105	115	4 1/4"	4 5/8"	6.4	378	236	204	64	97	114	213	18.3	20.7
HDT430N	43792	31798	80	115	3 1/8"	4 5/8"	16.1	405	291	242	83	93	146	267	25.6	31.3
	48181	34985	130	175	5"	6 7/8"	16.1	425	309	260	83	93	146	267	24.8	27.3

Above selection table is for drive unit only . Ratchet head to be ordered separately see pages 18 and 19 .

Weight as stated is drive cylinder only, exact radius size R varies according to ratchet AF size selected.

H-IMPERIAL HEXAGON AF RATCHET HEADS

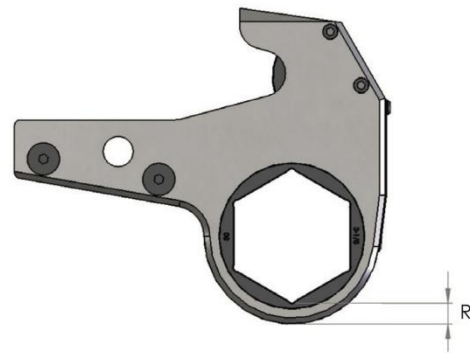
رچت آچار های هیدرولیک کاستی (بر اساس واحد اینچ)



Choice of standard imperial sizes

Easily fitted to HDT drive units

High grade steel construction



IMPERIAL RATCHET HEAD SELECTION TABLE

Bolt size	Nut AF size	For HDT27N			For HDT54N			For HDT120N			For HDT210N			For HDT430N		
		Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg
5/8"	1 1/16"	H27-1.1/16	10.4	1.5												
3/4"	1 1/4"	H27-1.1/4	9.7	1.6												
7/8"	1 7/16"	H27-1.7/16	9.8	1.6	H54-1.7/16	13.5	2.9									
1"	1 5/8"	H27-1.5/8	10.0	1.6	H54-1.5/8	10.8	2.8									
1 1/8"	1 13/16"	H27-1.13/16	10.5	1.7	H54-1.13/16	10.7	2.9									
1 1/4"	2"	H27-2	10.5	1.7	H54-2	11.7	3.0									
1 3/8"	2 3/16"	H27-2.3/16	10.3	1.8	H54-2.3/16	11.8	3.1	H120-2.3/16	14.7	6.1						
1 1/2"	2 3/8"	H27-2.3/8	10.5	1.8	H54-2.3/8	11.8	3.2	H120-2.3/8	14.8	6.4						
1 5/8"	2 9/16"				H54-2.9/16	11.6	3.3	H120-2.9/16	14.8	6.4						
1 3/4"	2 3/4"				H54-2.3/4	11.8	3.4	H120-2.3/4	14.9	6.5	H210-2.3/4	18.3	12.1			
1 7/8"	2 15/16"				H54-2.15/16	14.8	3.5	H120-2.15/16	14.9	6.5	H210-2.15/16	18.3	12.2			
2"	3 1/8"				H54-3.1/8	12.1	3.5	H120-3.1/8	15.1	6.5	H210-3.1/8	18.5	12.3	H430-3.1/8	26.0	23.2
2 1/4"	3 1/2"							H120-3.1/2	16.9	7.9	H210-3.1/2	19.3	12.4	H430-3.1/2	26.8	23.9
2 1/2"	3 7/8"							H120-3.7/8	19.6	8.5	H210-3.7/8	19.5	12.5	H430-3.7/8	26.5	25.7
2 3/4"	4 1/4"										H210-4.1/4	19.5	13.3	H430-4.1/4	26.9	26.1
3"	4 5/8"										H210-4.5/8	19.3	13.8	H430-4.5/8	25.9	26.3
3 1/4"	5"													H430-5	27.4	27.9
3 1/2"	5 3/8"													H430-5.3/8	25.8	28.3
3 3/4"	5 3/4"													H430-5.3/4	24.8	29.3
4"	6 1/8"													H430-6.1.8	25.0	30.1
4 1/4"	6 1/2"													H430-6.1/2	25.0	31.0
4 1/2"	6 7/8"													H430-6.7/8	27.3	31.8

H-METRIC HEXAGON AF RATCHET HEADS

رچت آچار های هیدرولیک کاستی (بر اساس واحد میلیمتر)



Choice of standard metric sizes

Easily fitted to HDT drive units

High grade steel construction

METRIC RATCHET HEAD SELECTION TABLE

Bolt size	Nut AF size	For HDT27N			For HDT54N			For HDT120N			For HDT210N			For HDT430N		
		Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg
16	24	H27-24	12.1	1.5												
18	27	H27-27	10.4	1.5												
20	30	H27-30	10.7	1.6												
22	32	H27-32	9.5	1.6												
24	36	H27-36	10.1	1.6	H54-36	13.8	2.9									
-	38				H54-38	12.6	2.8									
27	41	H27-41	10.1	1.6	H54-41	10.9	2.8									
30	46	H27-46	10.5	1.7	H54-46	10.7	2.9									
33	50	H27-50	10.4	1.7	H54-50	12.1	3.0	H120-50	15.2	5.8						
36	55	H27-55	10.1	1.8	H54-55	12.1	3.1	H120-55	15.0	6.1						
39	60	H27-60	10.5	1.8	H54-60	12.0	3.2	H120-60	15.0	6.4						
42	65				H54-65	11.7	3.3	H120-65	14.9	6.4						
45	70				H54-70	11.7	3.4	H120-70	14.8	6.5	H210-70	18.2	12.1			
48	75				H54-75	14.6	3.5	H120-75	14.7	6.5	H210-75	18.1	12.2			
52	80				H54-80	11.7	3.5	H120-80	14.7	6.5	H210-80	18.1	12.3	H430-80	25.6	23.2
56	85							H120-85	16.4	7.8	H210-85	18.2	12.4	H430-85	29.0	24.0
60	90							H120-90	16.2	7.9	H210-90	18.6	12.4	H430-90	31.3	26.0
64	95							H120-95	15.9	7.9	H210-95	18.6	12.5	H430-95	28.5	25.8
68	100							H120-100	18.7	8.5	H210-100	18.6	12.5	H430-100	25.6	25.6
72	105										H210-105	18.4	12.9	H430-105	28.6	26.5
76	110										H210-110	18.3	13.3	H430-110	25.7	26.2
80	115										H210-115	20.7	13.8	H430-115	27.3	26.4
90	130													H430-130	25.6	27.3
-	135													H430-135	26.6	28.3
100	145													H430-145	25.4	29.4
110	155													H430-155	25.0	30.1
115	165													H430-165	25.0	31.0
-	175													H430-175	27.3	31.8

BW/BACKUP WRENCHES



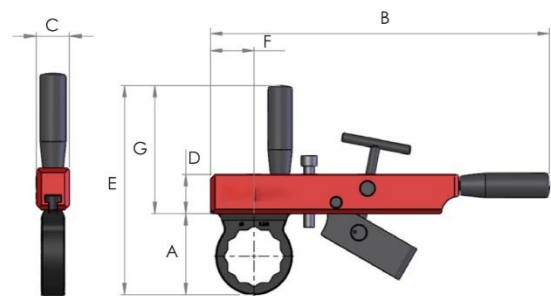
- Prevents back nut rotation during torque tightening applications
- Heavy duty industrial construction with ergonomic grip for safe and easy operation
- T-Bar desing adjustable reaction point prevents lock up once tightening is completed
- Standard imperial and metric female hexagon links available

آچار نگهدارنده مهره پستی

Suitable for use with SDT & HDT wrenches

Interchangeable hexagon links

Positive release mechanism



IMPERIAL

COMPLETE SET:

Model number	Description	BWH incl. set of links:	
		From	To
BWI-SET	Holder complete with imperial link set (12 pcs)	1 7/16"	3 7/8"

HOLDER AND IMPERIAL HEXAGON LINKS:

Model number	Description	Hexagon AF size	A	B	Dimensions (mm)				
					C	D	E	F	G
Holder									
BWH	Backup wrench holder	-							
Hexagon links									
BWI-107	Hexagon link	1 7/16"	64.5	390	36	45	211.5	50	147
BWI-110	Hexagon link	1 5/8"	73.5	390	36	45	220.5	50	147
BWI-113	Hexagon link	1 3/16"	78.5	390	36	45	225.5	50	147
BWI-200	Hexagon link	2"	85	390	36	45	232	50	147
BWI-203	Hexagon link	2 3/16"	87.5	390	36	45	234.5	50	147
BWI-206	Hexagon link	2 3/8"	93	390	36	45	240	50	147
BWI-209	Hexagon link	2 1/16"	97.5	390	36	45	244.5	50	147
BWI-212	Hexagon link	2 3/4"	104.5	390	36	45	251.5	50	147
BWI-215	Hexagon link	2 15/16"	113	390	36	45	260	50	147
BWI-302	Hexagon link	3 1/8"	119.5	390	36	45	266.5	50	147
BWI-308	Hexagon link	3 1/2"	132.5	390	36	45	279.5	50	147
BWI-314	Hexagon link	3 7/8"	147.5	390	36	45	294.5	50	147

METRIC

COMPLETE SET:

Model number	Description	BWH incl. set of links:	
		From	To
BWM-SET	Holder complete with metric link set (14 pcs)	36 mm	100 mm

HOLDER AND METRIC HEXAGON LINKS:

Model number	Description	Hexagon AF size	A	B	Dimensions (mm)				
					C	D	E	F	G
Holder									
BWH	Backup wrench holder	-							
Hexagon links									
BWM-36	Hexagon link	36 mm	64.5	390	36	45	211.5	50	147
BWM-41	Hexagon link	41 mm	73.5	390	36	45	220.5	50	147
BWM-46	Hexagon link	46 mm	78.5	390	36	45	225.5	50	147
BWM-50	Hexagon link	50 mm	85	390	36	45	232	50	147
BWM-55	Hexagon link	55 mm	87.5	390	36	45	234.5	50	147
BWM-60	Hexagon link	60 mm	93	390	36	45	240	50	147
BWM-65	Hexagon link	65 mm	97.5	390	36	45	244.5	50	147
BWM-70	Hexagon link	70 mm	104.5	390	36	45	251.5	50	147
BWM-75	Hexagon link	75 mm	113	390	36	45	260	50	147
BWM-80	Hexagon link	80 mm	119.5	390	36	45	266.5	50	147
BWM-85	Hexagon link	85 mm	130	390	36	45	277	50	147
BWM-90	Hexagon link	90 mm	135.5	390	36	45	282.5	50	147
BWM-95	Hexagon link	95 mm	143	390	36	45	290	50	147
BWM-100	Hexagon link	100 mm	148	390	36	45	295	50	147

IB-IMPERIAL HEXAGON AF SIZE REDUCER BUSHES



بوش کاهش دهنده آچار هیدرولیک کاستی
(شش ضلعی-براساس واحد اینچ)

- Economical solution of reducing femal hexagon AF size of HDT imperial ratchet head
- Select the outside AF size (i.e. ratchet hea AF size) and required inside AF size to determine the IB model number.

Outside AF size	Inside AF size	For HDT27N		For HDT54N		For HDT120N		For HDT210N		For HDT430N	
		Model number	W mm	Model number	W mm	Model number	W mm	Model number	W mm	Model number	W mm
1 1/4"	1 1/16"	IB27-104-101	2.4								
1 7/16"	1 1/16"	IB27-107-101	4.8								
1 7/16"	1 1/4"	IB27-107-104	2.4								
1 5/8"	1 1/4"	IB27-110-104	4.8	IB54-110-104	4.8						
1 5/8"	1 7/16"	IB27-110-107	2.4	IB54-110-107	2.4						
1 13/16"	1 7/16"	IB27-113-107	4.8	IB54-113-107	4.8						
1 13/16"	1 5/8"	IB27-113-110	2.4	IB54-113-110	2.4						
2"	1 5/8"	IB27-200-110	4.8	IB54-200-110	4.8						
2"	1 13/16"	IB27-200-113	2.4	IB54-200-113	2.4						
2 3/16"	1 5/8"	IB27-203-110	7.2	IB54-203-110	7.2						
2 3/16"	1 13/16"	IB27-203-113	4.8	IB54-203-113	4.8						
2 3/16"	2"	IB27-203-200	2.4	IB54-203-200	2.4						
2 3/8"	1 13/16"	IB27-206-113	7.2	IB54-206-113	7.2						
2 3/8"	2"	IB27-206-200	4.8	IB54-206-200	4.8						
2 3/8"	2 3/16"	IB27-206-203	2.4	IB54-206-203	2.4	IB120-206-203	2.4				
2 9/16"	2"			IB54-209-200	7.2	not available	-				
2 9/16"	2 3/16"			IB54-209-203	4.8	IB120-209-203	4.8				
2 9/16"	2 3/8"			IB54-209-206	2.4	IB120-209-206	2.4				
2 3/4"	2 3/16"			IB54-212-203	7.2	IB120-212-203	7.2				
2 3/4"	2 3/8"			IB54-212-206	4.8	IB120-212-206	4.8				
2 3/4"	2 9/16"			IB54-212-209	2.4	IB120-212-209	2.4				
2 15/16"	2 3/8"			IB54-215-206	7.2	IB120-215-206	7.2				
2 15/16"	2 9/16"			IB54-215-209	4.8	IB120-215-209	4.8				
2 15/16"	2 3/4"			IB54-215-212	2.4	IB120-215-212	2.4	IB210-215-212	2.4		
3 1/8"	2 9/16"			IB54-302-209	7.2	IB120-302-209	7.2	not available	-		
3 1/8"	2 3/4"			IB54-302-212	4.8	IB120-302-212	4.8	IB210-302-212	4.8		
3 1/8"	2 15/16"			IB54-302-215	2.4	IB120-302-215	2.4	IB210-302-215	2.4		
3 1/2"	2 15/16"					IB120-308-215	7.2	IB210-308-215	7.2		
3 1/2"	3 1/8"					IB120-308-302	4.8	IB210-308-302	4.8	IB430-308-302	4.8
3 7/8"	3 1/8"					IB120-314-302	9.5	IB210-314-302	9.5	IB430-314-302	9.5
3 7/8"	3 1/2"					IB120-314-308	4.8	IB210-314-308	4.8	IB430-314-308	4.8
4 1/4"	3 1/2"							IB210-404-308	9.5	IB430-404-308	9.5
4 1/4"	3 7/8"							IB210-404-314	4.8	IB430-404-314	4.8
4 5/8"	3 7/8"							IB210-410-314	9.5	IB430-410-314	9.5
4 5/8"	4 1/4"							IB210-410-404	4.8	IB430-410-404	4.8
5"	4 1/4"									IB430-500-404	9.5
5"	4 5/8"									IB430-500-410	4.8
5 3/8"	4 5/8"									IB430-506-410	9.5
5 3/8"	5"									IB430-506-500	4.8
5 3/4"	5"									IB430-512-500	9.5
5 3/4"	5 3/8"									IB430-512-506	4.8
6 1/8"	5 3/8"									IB430-602-506	9.5
6 1/8"	5 3/4"									IB430-602-512	4.8
6 1/2"	5 3/4"									IB430-608-512	9.5
6 1/2"	6 1/8"									IB430-608-602	4.8
6 7/8"	6 1/8"									IB430-614-602	9.5
6 7/8"	6 1/2"									IB430-614-608	4.8

MB-METRIC HEXAGON AF SIZE REDUCER BUSHES

بوش کاهش دهنده آچار هیدرولیک کاستی
(شش ضلعی - براساس واحد میلیمتر)



- Economical solution of reducing femal hexagon AF size of HDT metric ratchet head
- Select the outside AF size (i.e. ratchet hea AF size) and required inside AF size to determine the MB model number.

		For HDT27N		For HDT54N		For HDT120N		For HDT210N		For HDT430N	
Outside AF size	Inside AF size	Model number	W mm	Model number	W mm	Model number	W mm	Model number	W mm	Model number	W mm
30	24	MB27-30-24	3								
32	24	MB27-32-24	3								
32	27	MB27-32-27	3								
36	30	MB27-36-30	3	MB54-36-30	3						
41	36	MB27-41-36	2.5	MB54-41-36	2.5						
46	36	MB27-46-36	5	MB54-46-36	5						
46	41	MB27-46-41	2.5	MB54-46-41	2.5						
50	41	MB27-50-41	4.5	MB54-50-41	4.5						
50	46	MB27-50-46	2	MB54-50-46	2						
55	41	MB27-55-41	7	MB54-55-41	7						
55	46	MB27-55-46	4.5	MB54-55-46	4.5						
55	50	MB27-55-50	2.5	MB54-55-50	2.5	MB120-55-50	2.5				
60	46	MB27-60-46	7	MB54-60-46	7	not available	-				
60	50	MB27-60-50	5	MB54-60-50	5	MB120-60-50	5				
60	55	MB27-60-55	2.5	MB54-60-55	2.5	MB120-60-55	2.5				
65	50			MB54-65-50	7.5	MB120-65-50	7.5				
65	55			MB54-65-55	5	MB120-65-55	5				
65	60			MB54-65-60	2.5	MB120-65-60	2.5				
70	55			MB54-70-55	7.5	MB120-70-55	7.5				
70	60			MB54-70-60	5	MB120-70-60	5				
70	65			MB54-70-65	2.5	MB120-70-65	2.5				
75	60			MB54-75-60	7.5	MB120-75-60	7.5				
75	65			MB54-75-65	5	MB120-75-65	5				
75	70			MB54-75-70	2.5	MB120-75-70	2.5	MB210-75-70	2.5		
80	65			MB54-80-65	7.5	MB120-80-65	7.5	not available	-		
80	70			MB54-80-70	5	MB120-80-70	5	MB210-80-70	5		
80	75			MB54-80-75	2.5	MB120-80-75	2.5	MB210-80-75	2.5		
85	70					MB120-85-70	7.5	MB210-85-70	7.5		
85	75					MB120-85-75	5	MB210-85-75	5		
85	80					MB120-85-80	2.5	MB210-85-80	2.5	MB430-85-80	2.5
90	75					MB120-90-75	7.5	MB210-90-75	7.5	not available	-
90	80					MB120-90-80	5	MB210-90-80	5	MB430-90-80	5
90	85					MB120-90-85	2.5	MB210-90-85	2.5	MB430-90-85	2.5
95	80					MB120-95-80	7.5	MB210-95-80	7.5	MB430-95-80	7.5
95	85					MB120-95-85	5	MB210-95-85	5	MB430-95-85	5
95	90					MB120-95-90	2.5	MB210-95-90	2.5	MB430-95-90	2.5
100	85					MB120-100-85	7.5	MB210-100-85	7.5	MB430-100-85	7.5
100	90					MB120-100-90	5	MB210-100-90	5	MB430-100-90	5
100	95					MB120-100-95	2.5	MB210-100-95	2.5	MB430-100-95	2.5
105	90							MB210-105-90	7.5	MB430-105-90	7.5
105	95							MB210-105-95	5	MB430-105-95	5
105	100							MB210-105-100	2.5	MB430-105-100	2.5
110	95							MB210-110-95	7.5	MB430-110-95	7.5
110	100							MB210-110-100	5	MB430-110-100	5
110	105							MB210-110-105	2.5	MB430-110-105	2.5
115	100							MB210-115-100	7.5	MB430-115-100	7.5
115	105							MB210-115-105	5	MB430-115-105	5
115	110							MB210-115-110	2.5	MB430-115-110	2.5
130	105									MB430-130-105	12.5
130	110									MB430-130-110	10
130	115									MB430-130-115	7.5
145	110									MB430-145-110	17.5
145	115									MB430-145-115	15
145	130									MB430-145-130	7.5

HDT / ACCESSORIES

لوازم جانبی آچار هیدرولیک کاستی



Choice of 1" , 1 1/2" or 2 1/2" Square drive sizes

Suitable for HDT range (excluding HDT430N)

Easily fitted, no special tools required

SQUARE DRIVE CONVERSION KITS

- Converts HDT female hexagon drive torque wrench into a standard square drive wrench
- Kits comprises of reaction foot and standard hexagon AF to square drive adaptor.

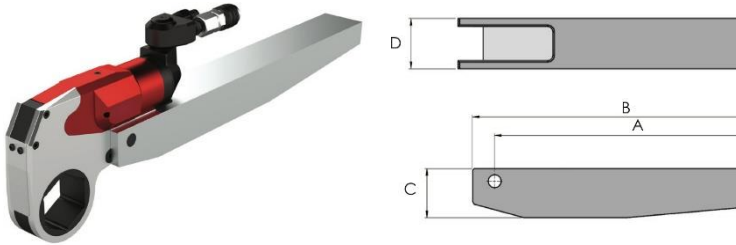
Model number	Square drive	Hexagon AF size	Maximum Torque (Nm)	Maximum Torque (lbf.ft)	Suitable for		Weight (kg)
					Drive cylinder	Ratchet head	
SDC27-1	1"	1 13/16"	3068	2263	HDT27N	H27-1.13/16	1.1
SDC27-M	1"	46 mm	3068	2263	HDT27N	H27-46	1.1
SDC54-1	1 1/2"	2 9/16"	6037	4453	HDT54N	H54-2.9/16	3.0
SDC54-M	1 1/2"	65 mm	6037	4453	HDT54N	H54-65	3.0
SDC120-1	1 1/2"	3 1/8"	14349	10583	HDT120N	H120-3.1/8	4.4
SDC120-M	1 1/2"	80 mm	14349	10583	HDT120N	H120-80	4.4
SDC210-1	2 1/2"	3 7/8"	23124	17055	HDT210N	H210-3.7/8	9.1
SDC210-M	2 1/2"	100 mm	23124	17055	HDT210N	H210-100	9.1

When ordering SDC conversion kits, check to ensure that you already have the required size of ratchet head .



HDT / ACCESSORIES

لوازم جانبی آچار هیدرولیک کاستی



Lightweight aluminium alloy construction

Extended length arms with choice of length

Handle kits for HDT to allow user to better support the tools during operation .

EXTENDED REACTIONS ARMS

- Offers in-line reaction outside of the standard range of reaction points for HDT wenchers.
- Increased accessibility for applications in confined spaces

Model number	Dimensions (mm)			
	Length (A)	Length (B)	Height (C)	Width (D)
ERA27-20	499	525	45	50
ERA54-20	513	535	55	65
ERA120-21	527	550	75	85
ERA210-21	545	588	95	95
ERA430-22	565	628	120	120



Model number	Model number	Hex key to fit handle kit
HDT54N	TSH54	4 mm
HDT120N	TSH120	5 mm
HDT210N	TSH210	6 mm
HDT430N	TSH430	8 mm

KLW4000 Electric Pump for torque wrenches

پمپ هیدرولیک برقی مخصوص آچار هیدرولیک

- | | |
|-----------------------|-----------------|
| • Drive | Electric |
| • Tank capacity | 8L |
| • Flow (low-mid-High) | 7-1.6-0.8 L/min |
| • Output pressure | 40~700 bar |
| • Source of power | 220v/50 HZ |
| • Power | 1.1 KW |
| • Weight | 26.7 kg |
| • Volume | 300×375×458 |



FP-4 (Optional)

Order : KLW4000-FP-4



- Compact automatic three stage flow,max efficiency.
- Applicable on both one or two wrenches simultaneously.
- Aluminum oil tank with oil gauge and thermometer.
- Have Ø100 high pressure gauge.
- Infinitely variable pressure adjustment between 40~700 bar.
- With the high efficiency radiator the pump can work 24 dirtct hours.
- Can changes the motor to fit the different current around the word .
- Pressure adjustor , pressure relief valve .
- Pressure relief Button,it can release the pressure in system in the case of pump stopped.

MP SERIES Electric Pumps

پمپ هیدرولیک برقی

- | | |
|----------------------------------|-------------------|
| • Drive | Electric |
| • Oil available | 8L,13L |
| • Flow (low-hight) | 5.5/7.2-0.8 L/min |
| • Double acting (pressure hold) | |
| • Source of power | 220v/50 HZ |
| • Power | 1.1 KW |
| • Max pressure | 700 bar |



- Double-speed designed ,infinitely variable pressure adjustment between 0-700 bar.
- MP-series electric hydraulic pumps suits to a wide variety of industrial ana application fieldsto work as lifting ,pushing,pulling bending,pressing,punching and many other application .it is economical and durable power source.

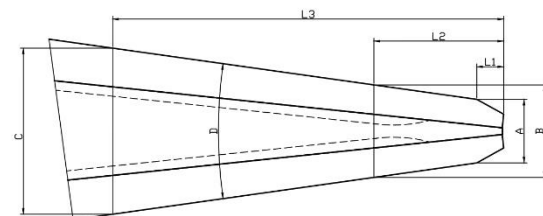
Hydraulic foundry Wedge

راهگاه شکن هیدرولیکی



Model	Maximum Force ton	Stroke (mm)	Maximum Operating Pressure (bar)	Oil Capacity (cm ³)	 (kg)
HFW-3025	22	72	240	362	34.5

Blade Number	Dimensions (mm)							
	A	B	C	L1	L2	L3	D	W
AR320117 \ 320109	27	40	71	11	55	167	16°	49
AR320105 \ 320113	8.5	13	37	3	20	90	16°	28



با استفاده از راهگاه شکن هیدرولیکی تولیدی شرکت آرتیمان جداسازی راه گاه قطعات فولادی و چدن داکتیل ریخته گری شده به راحتی و بدون آسیب به محصول انجام میگردد .

امکان تولید گوه با ابعاد سفارشی مقدور است .

امکان تولید راه گاه شکن با توان سفارشی مقدور است .

Single-Acting Pancake Lock Nut Cylinders - CLP

جک هیدرولیکی یک طرفه کتابی مهره قفل

CLP Series

- Capacity
60-520 ton
- Stroke
45-50 mm
- Maximum Operating Pressure
700 bar



The Lowest
Power Lifter

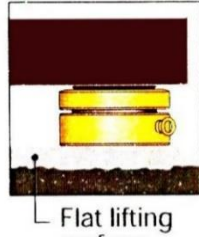


- Extremely Low height for use in confined areas.
- Lock nut for positive and safe load holding over a long period of time.
- Single-acting , load return.
- Optional special synthetic coating for improved corrosion resistance and lower friction for smoother operation to withstand side load forces up to 3% of rated cylinder capacity without scoring.
- Overflow port functions as a stroke limiter
- CR-400 coupler and dust cap included on all models

WRONG!

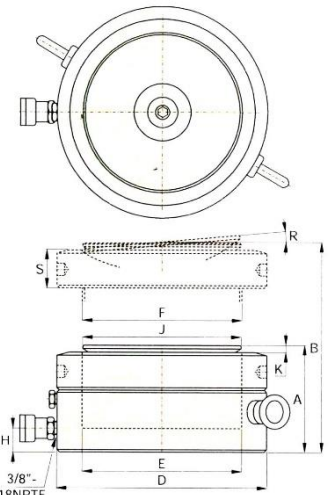


RIGHT!



Model Number	Cylinder Capacity ton (Kn)	Stroke (mm)	Cylinder Effective Area (cm ²)	Oil Capacity (cm ³)	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Base to Adv. Port H (mm)
CLP-602	60 (606)	50	86.6	432	125	175	140	105.0	Tr 105×4	19
CLP-1002	100 (1027)	50	146.8	734	137	187	175	136.7	Tr 140×6	21
CLP-1602	160 (1619)	45	231.3	1040	148	193	220	171.6	Tr 170×6	27
CLP-2002	200 (1999)	45	285.6	1285	155	200	245	190.7	Tr 190×6	30
CLP-2502	260 (2567)	45	366.8	1650	159	204	275	216.1	Tr 215×6	32
CLP-4002	400 (3916)	45	559.5	2517	178	223	350	266.9	Tr 265×6	39
CLP-5002	520 (5114)	45	730.6	3287	192	237	400	305.0	Tr 305×6	48

Model Number	Saddle Diameter J (mm)	Saddle Protrusion from Plgr. K (mm)	Saddle Max.Tilt Angle R	Lock Nut Height S (mm)	(Kg)
CLP-602	96	6	5°	28	15
CLP-1002	126	8	5°	31	26
CLP-1602	160	9	5°	40	44
CLP-2002	180	10	5°	43	57
CLP-2502	200	11	5°	44	74
CLP-4002	250	11	4°	55	134
CLP-5002	290	10	3°	62	189



RC – Series , Cylinders Accessories

لوازم جانبی جک هیدرولیکی یک طرفه

RC Series

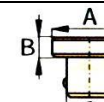
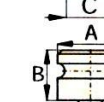
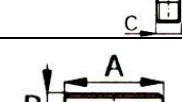
- Capacity
5-95 ton
- Stroke
16-362 mm
- Maximum Operating Pressure
700 bar

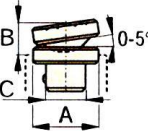
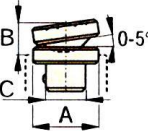
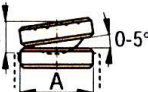


RC-Series, Cylinder Accessories

1) Standard on 5-30 ton RC-cylinders 2) Except RC-50 3) Except RC-101 4) Mounting screws are included 5) Used with Bender Sets

For use with cylinder capacity ton(kn)	Saddle			Base Plate	Mounting Block	Clevis Eyes	
	Flat	Grooved ¹⁾	Tilt			Base ⁴⁾	Plunger
5 (45)	A-53F ²⁾	A-53G ²⁾	-	-	RB-5 ²⁾ , AW-51 ²⁾ , AW-53 ²⁾	REB-5 ²⁾	REP-5 ²⁾
10 (101)	A-12 ⁵⁾ , A-102F ³⁾	A-102G ³⁾	CAT-10 ³⁾	JBL-10	RB-10, AW-102	REB-10	REP-10 ³⁾
15 (142)	-	A-152G	CAT-10	-	RB-15	REB-15	REP-10
25 (232)	A-29 ⁵⁾	A-252G	CAT-50	JBL-25	RB-25	REB-25	REP-25
30 (295)	A-29 ⁵⁾	A-252G	CAT-50	-	RB-25	-	REP-25
50 (498)	-	-	CAT-100	JBL-50	-	-	-
70 (718)	-	-	CAT-100	-	-	-	-
95 (933)	-	-	CAT-100	-	-	-	-

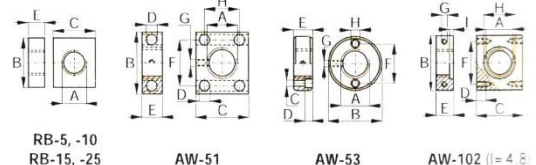
Model Nr.	Saddle Dimensions (mm)			A-53F, A-102F	
	A	B	C		
	Flat				
A-53F	25	6	17	A-12, A-29	
A-102F	35	6	22		
A-12	51	48	M24 × 3		
A-29	51	48	M40 × 1.5		
Grooved					
A-53G	25	6	17		
A-102G	35	6	22		
A-152G	38	9	22		
A-252G	50	9	35		

Model Nr.	Tilt Saddle Dimensions (mm)			
	A	B	C	
	Tilt			
CAT-10	35	15	22	
CAT-50	50	23	35	
	Tilt			
CAT-100	71	24	-	

Model Nr.	Base Plate Dimensions (mm)					JBL-10, -25	JBL-50
	A	B	C	D	E		
JBL-10	228	228	135	58	20	JBL-10, -25	JBL-50
JBL-25	279	279	140	86	26		
JBL-50	304	15	95	131	31		

Type	Model Nr.	Clevis Eye Dimensions (mm)						REB	REP
		A	B	C	D	E	F		
Base ⁴⁾	REB-5	44	47	14	16	16	25	REB	REP
	REB-10	63	66	25	22	25	35		
	REB-15	76	66	25	22	25	35		
	REB-25	95	79	38	31	31	41		
Plunger	REP-5	28	41	14	16	16	19		
	REP-10	42	61	25	22	25	28		
	REP-25	57	74	38	31	31	35		

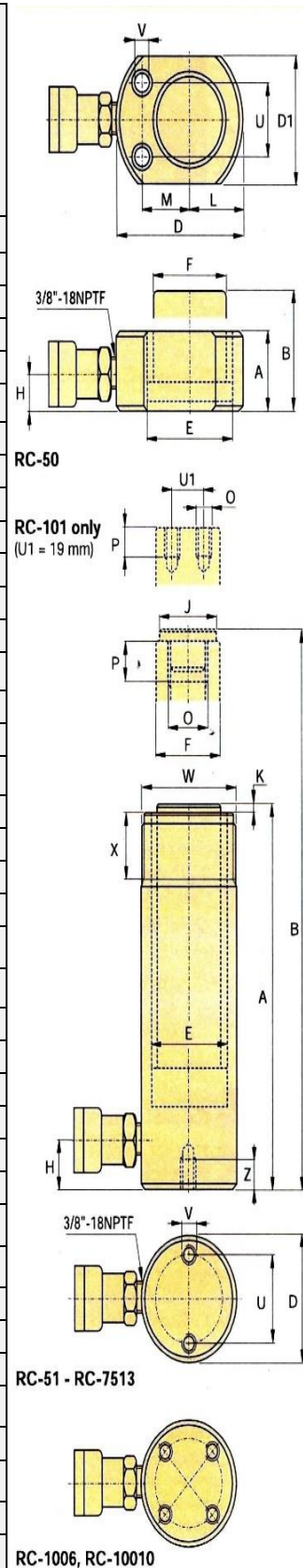
Model Nr.	Mounting Block Dimensions (mm)							
	A	B	C	D	E	F	G	H
RB-5	M40 × 1.5	88	76	-	25	-	-	-
AW-51	M40 × 1.5	70	59	10	24	54	M6	41
AW-53	M40 × 1.5	72	7	7	19	57	M6	10
RB-10	M58 × 2	114	88	-	25	-	-	-
AW-102	M58 × 2	100	82	16	30	76	M12	58
RB-15	M70 × 2	101	114	-	38	-	-	-
RB-25	M85 × 2	127	165	-	50	-	-	-



Single-Acting General Purpose Cylinders - RC

جک هیدرولیکی یک طرفه

Saddle Protr. from Plgr. K (mm)	Plunger Internal Thread O	Plunger Thread Length P (mm)	Base Mounting Holes			Collar Thread W	Collar Thread Length X (mm)	Model Number
			Bolt Circle U (mm)	Thread V	Thd. Depth Z (mm)			
-	-	-	28	5,6 mm	-	-	-	RC-50
6	M 20 × 1.5	14	25	M 6 × 1	14	1 1/2 "-16	28	RC-51
6	M 20 × 1.5	14	25	M 6 × 1	14	1 1/2 "-16	28	RC-53
6	M 20 × 1.5	14	25	M 6 × 1	14	1 1/2 "-16	28	RC-55
6	M 20 × 1.5	16	25	M 6 × 1	14	1 1/2 "-16	28	RC-57
6	M 20 × 1.5	16	25	M 6 × 1	14	1 1/2 "-16	28	RC-59
-	#10-24UN	6	39	M 8 × 1.25	12	2 1/4 "-14	26	RC-101
6	M 24 × 3	19	39	M 8 × 1.25	12	2 1/4 "-14	28	RC-102
6	M 24 × 3	19	39	M 8 × 1.25	12	2 1/4 "-14	26	RC-104
6	M 24 × 3	19	39	M 8 × 1.25	12	2 1/4 "-14	28	RC-106
6	M 24 × 3	19	39	M 8 × 1.25	12	2 1/4 "-14	26	RC-108
6	M 24 × 3	19	39	M 8 × 1.25	12	2 1/4 "-14	28	RC-1010
6	M 24 × 3	19	39	M 8 × 1.25	12	2 1/4 "-14	26	RC-1012
6	M 24 × 3	19	39	M 8 × 1.25	12	2 1/4 "-14	26	RC-1014
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-151
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-152
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-154
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-156
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-158
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-1510
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-1512
9	M 24 × 3	25	47	M 10 × 1.5	12	2 3/4 "-16	30	RC-1514
10	M 40 × 1.5	19	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-251
10	M 40 × 1.5	25	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-252
10	M 40 × 1.5	25	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-254
10	M 40 × 1.5	25	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-256
10	M 40 × 1.5	25	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-258
10	M 40 × 1.5	25	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-2510
10	M 40 × 1.5	25	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-2512
10	M 40 × 1.5	25	58	M 12 × 1.75	19	3 5/16 "-12	49	RC-2514
10	M 40 × 1.5	25	-	-	-	3 5/16 "-12	49	RC-308
2	-	-	95	M 12 × 1.75	19	5"-12	55	RC-502
2	-	-	95	M 12 × 1.75	19	5"-12	55	RC-504
2	-	-	95	M 12 × 1.75	19	5"-12	55	RC-506
2	-	-	95	M 12 × 1.75	19	5"-12	55	RC-5013
5	-	-	-	-	-	5 3/4 "-12	44	RC-756
5	-	-	-	-	-	5 3/4 "-12	44	RC-7513
2	-	-	139	M 20 × 2.5	25	6 7/8 "-12	44	RC-1006
2	-	-	139	M 20 × 2.5	25	6 7/8 "-12	44	RC-10010



Single-Acting General Purpose Cylinders - RC

جک هیدرولیکی یک طرفه

RC Series Selection Chart

Model Number	Cylinder Capacity ton (Kn)	Stroke (mm)	Cylinder Effective Area (cm ²)	Oil Capacity (cm ³)	Collapsed Height A (mm)	Extended Height B (mm)	Outside Dia. D (mm)	Cylinder Bore Dia. E (mm)	Plunger Dia. F (mm)	Base to Adv. Port H (mm)	Saddle Dia. J (mm)	(kg)
RC-50	5 (45)	16	6.5	10	41	57	58	28.7	25.4	19	-	1.0
RC-51		25	6.5	16	110	135	38	28.7	25.4	19	25	1.0
RC-53		76	6.5	50	165	241	38	28.7	25.4	19	25	1.5
RC-55		127	6.5	83	215	342	38	28.7	25.4	19	25	1.9
RC-57		177	6.5	115	273	450	38	28.7	25.4	19	25	2.4
RC-59		232	6.5	151	323	555	38	28.7	25.4	19	25	2.8
RC-101	10 (101)	26	14.5	38	89	115	57	42.9	38.1	19	-	1.8
RC-102		54	14.5	78	121	175	57	42.9	38.1	19	35	2.3
RC-104		105	14.5	152	171	276	57	42.9	38.1	19	35	3.3
RC-106		156	14.5	226	247	403	57	42.9	38.1	19	35	4.4
RC-108		203	14.5	294	298	501	57	42.9	38.1	19	35	5.4
RC-1010		257	14.5	373	349	606	57	42.9	38.1	19	35	6.4
RC-1012		304	14.5	441	400	704	57	42.9	38.1	19	35	6.8
RC-1014		356	14.5	516	450	806	57	42.9	38.1	19	35	8.2
RC-151	15 (142)	25	20.3	51	124	149	69	50.8	41.4	19	38	3.3
RC-152		51	20.3	104	149	200	69	50.8	41.4	19	38	4.1
RC-154		101	20.3	205	200	301	69	50.8	41.4	19	38	5.0
RC-156		152	20.3	308	271	423	69	50.8	41.4	25	38	6.8
RC-158		203	20.3	411	322	525	69	50.8	41.4	25	38	8.2
RC-1510		254	20.3	516	373	627	69	50.8	41.4	25	38	9.5
RC-1512		305	20.3	619	423	728	69	50.8	41.4	25	38	10.9
RC-1514		356	20.3	723	474	830	69	50.8	41.4	25	38	11.8
RC-251	25 (232)	26	33.2	86	139	165	85	65.0	57.2	25	50	5.9
RC-252		50	33.2	166	165	215	85	65.0	57.2	25	50	6.4
RC-254		102	33.2	339	215	317	85	65.0	57.2	25	50	8.2
RC-256		158	33.2	525	273	431	85	65.0	57.2	25	50	10.0
RC-258		210	33.2	697	323	533	85	65.0	57.2	25	50	12.2
RC-2510		261	33.2	867	374	635	85	65.0	57.2	25	50	14.1
RC-2512		311	33.2	1033	425	736	85	65.0	57.2	25	50	16.3
RC-2514		362	33.2	1202	476	838	85	65.0	57.2	25	50	17.7
RC-308	30(295)	209	42.1	880	387	596	101	73.2	57.2	57	50	18.1
RC-502	50 (498)	51	71.2	362	176	227	127	95.2	79.5	33	71	15.0
RC-504		101	71.2	719	227	328	127	95.2	79.5	33	71	19.1
RC-506		159	71.2	1131	282	441	127	95.2	79.5	35	71	23.1
RC-5013	75 (718)	337	71.2	2399	460	797	127	95.2	79.5	35	71	37.6
RC-756		156	102.6	1601	285	441	146	114.3	95.2	30	71	29.5
RC-7513	95 (933)	333	102.6	3417	492	825	146	114.3	95.2	30	71	59.0
RC-1006	95 (933)	168	133.3	2239	357	525	177	130.3	104.9	41	71	59.0
RC-10010		260	133.3	3466	449	709	177	130.3	104.9	41	71	72.6

Single-Acting Low Height Cylinders – RSM/RCS

جک هیدرولیکی یک طرفه کوتاه کتابی

RSM-RCS Series

- Capacity
5-150 ton
- Stroke
6-62 mm
- Maximum Operating Pressure
700 bar



RSM Series , Flat-Jac Cylinders

- Compact, flat design for use where most other cylinders will not fit.
- Single-acting , spring return.
- RSM-750 , 1000 and 1500 have handles for easy carrying.
- Mounting holes permit easy fixturing.
- Baked enamel finish for increased corrosion resistance.
- CR-400 coupler and dust cap included on all models, except RSM-50 which is fitted with an AR-400 coupler.
- Hard chrome plated high quality steel plungers.
- Grooved plunger ends require no saddle.

RCS Series , Low Height Cylinders

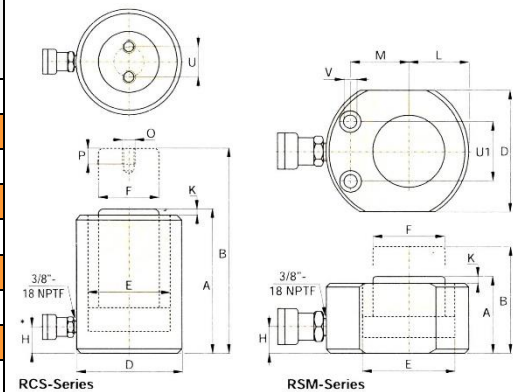
- Lightweight, low profile design for use in confined spaces.
- Single-acting , spring return .
- Baked enamel finish for increased corrosion resistance.
- Plunger wiper reduces contamination, extending cylinder life.
- CR-400 coupler and dust cap included on all models.
- Grooved plunger end with threaded holes for mounting tilt saddles.
- Integral handle on RCS-1002 for easy carrying.
- Plated steel plungers.

Single-Acting Low Height Cylinders – RSM/RCS

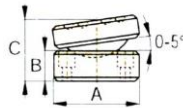
جک هیدرولیکی یک طرفه کوتاه کتابی

Model Number	Cylinder Capacity ton (Kn)	Stroke (mm)	Cyl. Effect. Area (cm ²)	Oil Cap. (cm ³)	Collapsed Height A (mm)	Extended Height B (mm)	Outside Dia. D (mm)	Cylinder Bore Dia. E (mm)	Plunger Dia. F (mm)	Base to Adv. Port H (mm)	(kg)
RSM-50	5 (45)	6	6.5	4	32	38	58×41	28.7	25.4	16	1.0
RSM-100	10 (101)	12	14.5	18	43	54	82×55	42.9	38.1	19	1.4
RSM-200	20 (201)	11	28.7	32	51	62	101×76	60.5	50.8	19	3.1
RSM-300	30 (295)	13	42.1	55	58	71	117×95	73.2	63.4	19	4.5
RSM-500	45 (435)	16	62.1	99	66	82	140×114	88.9	69.8	19	6.8
RSM-750	75 (718)	16	102.6	164	79	95	165×139	114.3	82.6	19	11.3
RSM-1000	90 (887)	16	126.7	203	85	101	178×153	127.0	92.2	19	14.5
RSM-1500	150 (1386)	16	198.1	317	100	116	215×190	158.8	114.3	23	26.3
RCS-101	10 (101)	38	14.5	55	88	126	69	42.9	38.1	17	4.1
RCS-201	20 (201)	45	28.7	129	98	143	92	60.5	50.8	17	5.0
RCS-302	30 (295)	62	42.1	261	117	179	101	73.2	66.5	19	6.8
RCS-502	45 (435)	60	62.1	373	122	182	124	88.9	69.8	23	10.9
RCS-1002	90 (887)	57	126.7	722	141	198	165	127.0	92.2	31	22.7

Model Number	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)
RSM-50	1	20	22	-	-	-
RSM-100	1	27	34	-	-	-
RSM-200	1	39	39	-	-	-
RSM-300	2	47	44	-	-	-
RSM-500	2	57	53	-	-	-
RSM-750	2	69	66	-	-	-
RSM-1000	2	76	74	-	-	-
RSM-1500	2	95	82	-	-	-
RCS-101	5	-	-	M4	8	26
RCS-201	3	-	-	M5	8	39
RCS-302	3	-	-	M5	8	39
RCS-502	2	-	-	M5	8	39
RCS-1002	1	-	-	M8	10	55



Optional Bolt On Tilt Saddle Dimensions (mm)				
For cyl. Model	Model Number	A	B	C
RCS-101	CAT-11	35	11	21
RCS-201,-302,-502	CAT-51	50	15	29
RCS-1002	CAT-101	71	17	35



RSM Cylinder Mounting Hole Dimensions (mm)				
Model Number	Bolt Circle U1	Hole Dia. V	Counter Bore Dia.	Counter Bore Depth
RSM-50	28.5	5.5	9.1	4.3
RSM-100	36.6	7.1	10.7	7.9
RSM-200	49.3	10.0	15.1	9.9
RSM-300	52.3	10.0	15.9	11.2
RSM-500	66.5	11.0	19.0	12.7
RSM-750	76.2	13.5	20.6	14.2
RSM-1000	76.2	13.5	20.6	14.2
RSM-1500	117.3	13.5	20.6	14.2

Single-Acting Hollow Plunger Cylinders - RCH

جک هیدرولیکی یک طرفه توخالی

RCH Series

- Capacity
13-95 ton
- Stroke
8-155 mm
- Maximum Operating Pressure
700 bar
- Center Hole Diameter
19.6 – 79,0 mm



- 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.
- Collar threads for easy fixturing.
- RCH-120 includes AR-630 coupler and has 1/4" nptf port.
- RCH-121 and RCH-1211 have FZ-1630 reducer and AR-630 coupler, all other models feature CR-400 coupler.

Model Number	Cylinder Capacity ton (Kn)	Stroke (mm)	Cyl. Effect. Area (cm ²)	Oil Cap. (cm ³)	Coll. Height A (mm)	Ext. Height B (mm)	Out. Dia. D (mm)	Cyl. Bore Dia. E (mm)	Plgr. Dia. F (mm)	Cyl. Base To Advance Port H (mm)	Saddle Dia J (mm)	(kg)
RCH-120	13 (125)	8	17.9	14	55	63	69	54.1	35.1	9	-	1.5
RCH-121		42	17.9	75	120	162	69	54.1	35.1	19	-	2.8
RCH-1211		42	17.9	75	120	162	69	54.1	35.1	19	-	2.8
RCH-123		76	17.9	136	184	260	69	54.1	35.1	19	-	4.4
RCH-202	20 (215)	49	30.7	150	162	211	98	73.1	54.1	19	54	7.7
RCH-206		155	30.7	476	306	461	98	73.1	54.1	25	54	14.1
RCH-302	30 (326)	64	46.6	298	178	242	114	88.9	63.5	21	63	10.9
RCH-306		155	46.6	722	330	485	114	88.9	63.5	25	63	21.8
RCH-603	60 (576)	76	82.3	626	247	323	159	123.9	91.9	31	91	28.1
RCH-606		153	82.3	1259	323	476	159	123.9	91.9	31	91	35.4
RCH-1003	95 (931)	76	133.0	1011	254	330	212	165.1	127.0	38	126	63.0

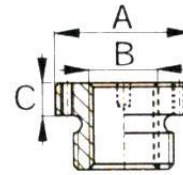
Single – Acting Hollow Plunger Cylinders - RCH

جک هیدرولیکی یک طرفه تو خالی

Model Number	Saddle Protrusion From Plgr. K (mm)	Plunger Internal Thread O	Plunger Thread Length P (mm)	Collar Thread W	Collar Thread Length X (mm)	Center Hole Dia. Y (mm)
RCH-120	-	M 20 × 1.5	16	2 3/4"-16	30	19.6
RCH-121	-	-	-	2 3/4"-16	30	19.6
RCH-1211	-	M 20 × 1.5	16	2 3/4"-16	30	19.6
RCH-123	-	-	-	2 3/4"-16	30	19.6
RCH-202	9.7	M 40 × 1.5	19	3 7/8"-12	38	26.9
RCH-206	9.7	M 40 × 1.5	19	3 7/8"-12	38	26.9
RCH-302	9.0	M 45 × 1.5	22	4 1/2"-12	42	33.3
RCH-306	9.0	M 40 × 1.5	22	4 1/2"-12	42	33.3
RCH-603	12.0	M 70 × 2	19	6 1/4"-12	48	53.8
RCH-606	12.0	M 70 × 2	19	6 1/4"-12	48	53.8
RCH-1003	12.0	M 100 × 2	25	8 3/8"-12	60	79.0

Optional Heat Treated Hollow Saddles

Saddle Type	Model Number	Saddle Model Nr.	Saddle Dimensions (mm)		
			A	B	C
Threaded Hollow	RCH-202 , 206	HP-2015	53	M 24 × 3	9
	RCH-302 , 306	HP-3015	63	M 30 × 3.5	9
	RCH-603 , 606	HP-5016	91	M 42 × 4.5	12
	RCH-1003	HP-10016	126	M 64 × 6	13

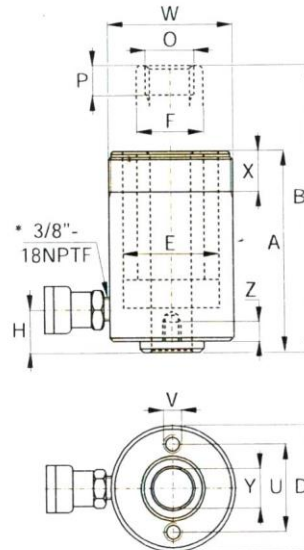


Smooth hollow saddles are standard on all RCH-models (except RCH-120 , RCH-1211).

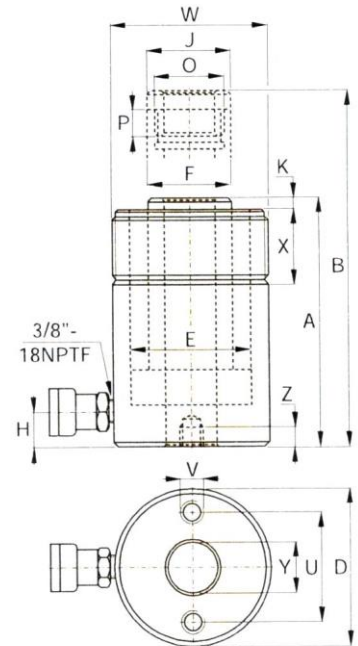
Base Mounting Hole Dimensions (mm)

Model Number	Bolt Circle U	Thread V	Thread Depth Z
RCH-120	50.8	M 8 × 1.25	9.0
RCH-121	-	-	-
RCH-1211	-	-	-
RCH-123	50.8	M 8 × 1.25	12.7
RCH-202	82.6	M 10 × 1.5	9.4
RCH-206	82.6	M 10 × 1.5	9.4
RCH-302	92.2	M 10 × 1.5	14.0
RCH-306	92.2	M 10 × 1.5	14.0
RCH-603	130.3	M 12 × 1.75	14.0
RCH-606	130.3	M 10 × 1.5	14.0
RCH-1003	177.8	M 16 × 2	19.0

RCH-121 and RCH-1211 have a 47 mm dia. boss that protrudes 6 mm from base.



RCH-120 to RCH-123 models
* 1/4" NPT for RCH-120 only



RCH-202 to RCH-1003 models

Double-Acting Hollow Plunger Cylinders - RRH

جک هیدرولیکی دو طرفه توخالی

RRH Series

- Capacity
30-145 ton
- Stroke
38-258 mm
- Maximum Operating Pressure
700 bar
- Center Hole Diameter
33.3 – 79,2 mm



- Relief valves prevent damage in case of over-pressurisation.
- Baked enamel finish for increased corrosion resistance
- Collar threads enable easy fixturing (except RRH-1001 and RRH-1508)
- Double-acting version for fast retraction.
- Nickel-plated , floating center tube increases product life
- Hollow plunger allows for both pull and push forces
- CR-400 coupler and dust cap included on all models.
- Plunger wiper reduces contamination,extening cylinder life.

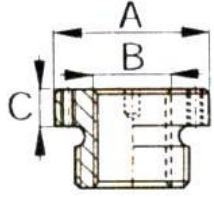
Model Number	storke (mm)	Capacity ton (Kn)	Max. Cylinder Capacity (Kn)		Cylinder Effective Area (cm ²)		Oil Capacity (cm ³)		Coll. Height A (mm)	Ext. Height B (mm)	Out. Dia D (mm)	⚖️ (kg)
			Advance	Retract	Advance	Retract	Advance	Retract				
RRH-307	178	30	326	213	46.6	30.4	829	541	330	508	114	21
RRH-3010	258		326	213	46.6	30.4	1202	784	431	689	114	27
RRH-603	89	60	576	380	82.3	54.2	733	482	247	336	159	28
RRH-606	166		576	380	82.3	54.2	1366	900	323	489	159	35
RRH-6010	257		576	380	82.3	54.2	2115	1393	438	695	159	45
RRH-1001	38	95	931	612	133.0	87.4	505	333	165	203	212	33
RRH-1003	76		931	612	133.0	87.4	1011	666	254	330	212	61
RRH-1006	153		931	612	133.0	87.4	2035	1337	342	495	212	79
RRH-10010	257		931	612	133.0	87.4	3420	2246	460	717	212	106
RRH-1508	203	145	1429	718	204.1	102.6	4144	2083	349	552	247	111

Double-Acting Hollow Plunger Cylinders - RRH

جک هیدرولیکی دو طرفه توخالی

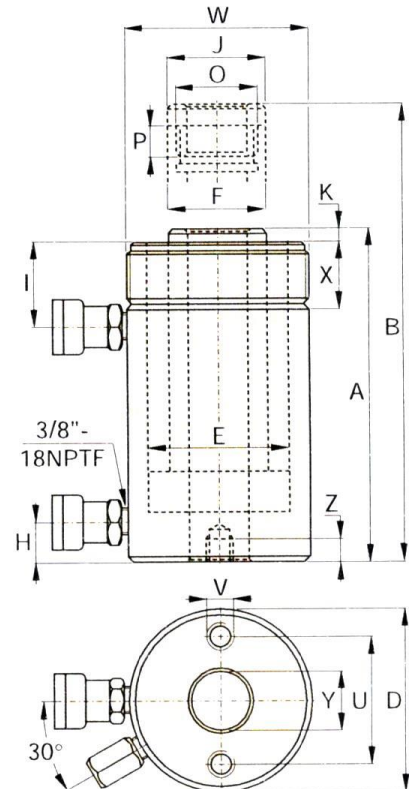
Model Number	Cyl. Bore Dia. E (mm)	Plgr. Dia. F (mm)	Cyl. Base To Adv. Port H (mm)	Cyl. Top To Return port I (mm)	Saddle Dia. J (mm)	Saddle Protr. Fr. Plgr. K (mm)	Thread O (mm)	Plunger Thread Length P (mm)	Collar Thread W	Collar Thread Length X (mm)	Center Hole Dia. Y (mm)
RRH-307	88.9	63.5	25	60	63	9	M 45 × 1.5	22	4 1/2" - 12	42	33.3
RRH-3010	88.9	63.5	25	60	63	9	M 45 × 1.5	22	4 1/2" - 12	42	33.3
RRH-603	123.9	91.9	31	66	91	12	M 70 × 2	19	6 1/4" - 12	48	53.8
RRH-606	123.9	91.9	31	66	91	12	M 70 × 2	19	6 1/4" - 12	48	53.8
RRH-6010	123.9	91.9	31	66	91	12	M 70 × 2	19	6 1/4" - 12	48	53.8
RRH-1001	165.1	127.0	38	44	126	12	M 100 × 2	25	-	-	79.2
RRH-1003	165.1	127.0	38	85	126	12	M 100 × 2	25	8 3/8" - 12	60	79.2
RRH-1006	165.1	127.0	38	85	126	12	M 100 × 2	25	8 3/8" - 12	60	79.2
RRH-10010	165.1	127.0	38	85	126	12	M 100 × 2	25	8 3/8" - 12	60	79.2
RRH-1508	190.5	152.4	38	60	127	4	M 110 × 2	25	-	-	79.2

Optional Heat Treated Hollow Saddles

Saddle Type	Model Number	Saddle Model Nr.	Saddle Dimensions (mm)			
			A	B	C	
Threaded Hollow	RRH-307 , 3010	HP-3015	63	M 30 × 3.5	9	
	RRH-603 , 606 , 6010	HP-5016	91	M 42 × 4.5	12	
	RRH-1001 , 1003 , 1006 , 10010	HP-10016	126	M 64 × 6	13	

Base Mounting Hole Dimensions (mm)

Model Number	Bolt Circle U	Thread V	Thread Depth Z
RRH-307	92.2	M 10 × 1.5	15.7
RRH-3010	92.2	M 10 × 1.5	15.7
RRH-603	130.0	M 12 × 1.75	14.0
RRH-606	130.0	M 12 × 1.75	14.0
RRH-6010	130.0	M 12 × 1.75	14.0
RRH-1001	177.8	M 16 × 2	19.0
RRH-1003	177.8	M 16 × 2	19.0
RRH-1006	177.8	M 16 × 2	19.0
RRH-10010	177.8	M 16 × 2	19.0
RRH-1508	-	-	-



High Pressure Hydraulic hoses – 700 series

شیلنگ هیدرولیک فشار قوی ۷۰۰ بار



- Inside Diameter
6.4 and 9.7 mm
- Length
0.6-15 m
- Maximum Operating Pressure
700 bar

▼ Hose End Couplings

1/4" NPTF	
3/8" NPTF	
A604	
A630	
AH604	
AH630	
C604	
CH604	

Internal Diameter	Hose End Assemblies and Couplers *		Hose Length	Model Number	(kg)
(mm)	End one	End two	(m)		
6,4	1/4" NPTF		–	–	–
			–	–	–
		A630	1,8	HB7206QB	1,1
			–	–	–
		CH604	1,8	HC7206Q	1,0
	3/8" NPTF		0,6	H7202	0,5
			0,9	H7203	0,7
			1,8	H7206	0,9
			3,0	H7210	1,4
			6,1	H7220	2,8
			9,1	H7230	4,5
			15	H7250	7,0
		A604	–	–	–
			1,8	HA7206B	1,1
		AH604	–	–	–
			–	–	–
			1,8	HA7206	1,0
			3,0	HA7210	1,5
		AH630	1,8	HB7206	1,0
			0,9	HC7203B	1,0
		C604	1,8	HC7206B	1,3
			3,0	HC7210B	1,8
		CH604	0,9	HC7203	0,8
			1,8	HC7206	1,0
			3,0	HC7210	1,5
			6,1	HC7220	2,9
	CH604	CH604	1,8	HC7206C	1,1
			6,1	HC7220C	3,0
			15	HC7250C	7,0
9,7	3/8" NPTF	3/8" NPTF	1,8	H7306	1,6
			3,0	H7310	2,4
			6,1	H7320	4,5
			9,1	H7330	7,3
		CH604	15	H7350	11,5
			1,8	HC7306	1,7
			3,0	HC7310	2,5
			6,1	HC7320	5,1

Torque wrench hoses – THQ series

شیلنگ دوقلو هیدرولیک فشار قوی ۷۰۰ بار مخصوص آچار هیدرولیک



- **THQ series**
- **Hose Length**
2.6 and 12 mm
- **Maximum Operating Pressure**
700 bar

Internal Diameter (mm)	Hose Length (m)	Model Number	Maximum Operating Pressure (bar)	Hose Ends 1/4" Spin-on Torque Wrench Couplers		 (kg)
				Hose one	Hose two	
6,4	2,0	THQ702T	700	female half TR630 + male half TH630	male half TH630 + female half TR630	2,2
	6,0	THQ706T	700	female half TR630 + male half TH630	male half TH630 + female half TR630	4,5
	12,0	THQ712T	700	female half TR630 + male half TH630	male half TH630 + female half TR630	7,6

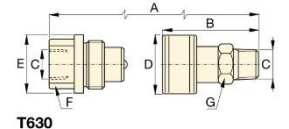
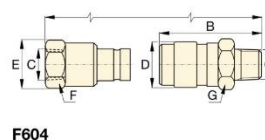
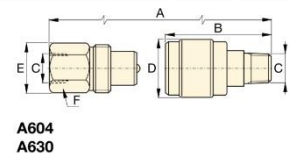
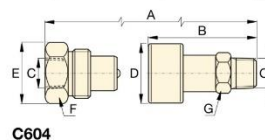
Hydraulic Couplers

کوپلینگ های هیدرولیک



- A/C/F/T Series
- Thread : 1/4"-3/8" NPTF
- Max.oper : 700 bar

Maximum Flow Capacity (l/min)	Coupler Type	Model Numbers			Dimensions (mm)							Dust Cap(s) Modelnr.
		Complete Set	Female Half	Male Half	A*	B	C	D	E	F	G	
35	700 bar High-Flow Coupler 	C604	CR400	CH604	83	64	3/8" NPTF	35	36	32	25	(2x) CD411
40	700 bar Flush-Face coupler 	F604	FR400	FH604	111	72	3/8" NPTF	31	31	27	29	–
7,6	700 bar Regular Spee-D-Coupler® 	A604	AR400	AH604	77	42	3/8" NPTF	28	26	23	19	Z410 female only
7,6	700 bar Regular Coupler 	A630	AR630	AH630	66	35	1/4" NPTF	22	20	19	15	Z640 female only
11,4	700 bar Spin-on Coupler 	T630	TR630	TH630	73	60	1/4" NPTF	29	29	19	21	–



Hydraulic oil

روغن هیدرولیک



↓ Oil Specifications chart

Viscosity Index	100 min
Viscosity at 40 °C	32
Density at 15 °C	875
Working Temperature Range	0-60 °C
API Gravity	31-33
Flash Point	204 °C
Pour Point, °C	-32
Ideal working temperature	40 ° c
Paraffinic Base Colour	Yellow

Manifolds

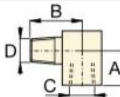
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700 bar Manifolds

Description	Model Number	Dimensions (mm)
7-port Manifold, short	A64	
7-port Manifold, long allows direct mounting of control valves to the manifold.	A65	
6-port Manifold, hexagon Plugs furnished for all ports 3/8\"-18 NPTF.	A66	
Control Manifolds * For control of two or four single-acting cylinders simultaneously. AM21 with 5 ports 3/8\"NPTF. AM41 with 7 ports 3/8\"NPTF.	AM21 AM41	

Fiting 700 bar

اتصالات

700 bar Fittings		Model Number	Dimensions (mm)		C	D	
			A	B			
Street Elbow			FZ1616	23	33	3/8"-18 NPTF	3/8"-18 NPTF
From: 3/8"-NPTF Male							
To: 3/8"-NPTF Female							
Reducing Connector			FZ1615	28	25	3/8"-18 NPTF	1/4"-18 NPTF
From: 3/8"-NPTF Female							
To: 1/4"-NPTF Female							
From: 1/2"-NPTF Female			FZ1625	47	29	1/2"-14 NPTF	3/8"-18 NPTF
To: 3/8"-NPTF Female							
Hexagon Nipple			FZ1608	38	16	1/4"-18 NPTF	1/4"-18 NPTF
From: To:							
1/4"-NPTF 1/4"-NPTF							
3/8"-NPTF 3/8"-NPTF							
3/8"-NPTF 3/8"-NPTF							
Coupling			FZ1614	29	23	3/8"-18 NPTF	3/8"-18 NPTF
From: To:							
3/8"-NPTF 3/8"-NPTF							
1/4"-NPTF 1/4"-NPTF			FZ1605	29	19	1/4"-18 NPTF	1/4"-18 NPTF
1/4"-NPTF 1/4"-NPTF							
Cross			FZ1613	45	25	3/8"-18 NPTF	-
From: 3/8"-NPTF Female							
To: 3/8"-NPTF Female							
Tee			FZ1612	45	25	3/8"-18 NPTF	-
From: To:							
3/8"-NPTF 3/8"-NPTF							
1/4"-NPTF 1/4"-NPTF							
1/4"-NPTF 1/4"-NPTF			FZ1637	45	24	1/4"-18 NPTF	-
1/4"-NPTF 1/4"-NPTF							
Street Tee			BFZ16312	56	26	3/8"-18 NPTF	3/8"-18 NPTF
From: 3/8"-NPTF Female							
To: 3/8"-NPTF Male							
Elbow			FZ1610	33	20	3/8"-18 NPTF	-
From: To:							
3/8"-NPTF 3/8"-NPTF							
1/4"-NPTF 1/4"-NPTF			FZ1638	36	24	1/4"-18 NPTF	-
1/4"-NPTF 1/4"-NPTF							
Reducer			FZ1630	19	19	1/4"-18 NPTF	3/8"-18 NPTF
From: To:							
3/8"-NPTF 1/4"-NPTF							
1/4"-NPTF 1/2"-NPTF							
3/8"-NPTF G1/4"			BFZ1630	28	22	1/4"-18 NPTF	1/2"-14 NPTF
3/8"-NPTF G1/4"							
3/8"-NPTF G1/4"			BFZ16301	19	19	G1/4"	3/8"-18 NPTF
3/8"-NPTF G1/4"							
Adaptor			BFZ-16411	35	19	1/4"-18 NPTF	G1/4"
From: To:							
G1/4" 1/4"-NPTF							
G1/4" 1/8"-NPTF							
G3/8" 1/4"-NPTF							
G3/8" 3/8"-NPTF			BFZ-16421	31	19	1/8"-27 NPTF	G1/4"
G3/8" 3/8"-NPTF							
G3/8" 1/4"-NPTF			BFZ-16323	43	24	1/4"-18 NPTF	G3/8"
G3/8" 3/8"-NPTF							
G3/8" 3/8"-NPTF			BFZ-16324	43	24	3/8"-18 NPTF	G3/8"
G3/8" 3/8"-NPTF							
Adaptor			FZ1055	44	23	1/4"-18 NPTF	3/8"-18 NPTF
From: To:							
1/4"-NPTF 3/8"-NPTF							
1/4"-NPTF 1/8"-NPTF							
1/2"-NPTF 3/8"-NPTF			FZ1642	30	19	1/8"-27 NPTF	1/4"-18 NPTF
1/2"-NPTF 3/8"-NPTF							
1/2"-NPTF 3/8"-NPTF			FZ1634	42	28	3/8"-18 NPTF	1/2"-18 NPTF
1/2"-NPTF 3/8"-NPTF							
Swivel Fitting			FZ1660	40	22	3/8"-18 NPTF	3/8"-18 NPSM
From: 3/8"-NPTF Male							
To: 3/8"-NPSM Female							

Guage Accessories

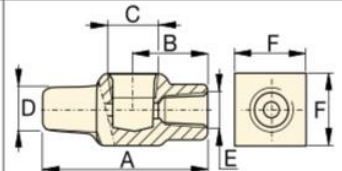
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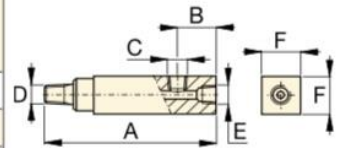
Gauge Adaptors (GA-Series)

- For easy mounting of a pressure gauge onto your system
- Male end screws into pump or cylinder port, female end accepts hose or coupler, 3rd port is for gauge connection
- GA918 provides for swivel connection.

Model Number	Gauge Port (NPTF)	Male End (NPTF)	Female End (NPTF)	Dimensions (mm)					
				A	B	C	D	E	F
GA1	1/2"	3/8"	3/8"	71	31	1/2" NPTF	3/8" NPTF	3/8" NPTF	32
GA2	1/2"	3/8"		155	35	1/2" NPTF	3/8" NPTF	3/8" NPTF	32
GA3	1/4"	3/8"		133	35	1/4" NPTF	3/8" NPTF	3/8" NPTF	32
GA4	1/2"	1/4"		111	35	1/2" NPTF	1/4" NPTF	3/8" NPTF	32



GA1



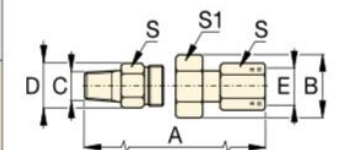
GA2, GA3, GA4



Swivel Adaptor (GA918)

- Simplifies gauge installation and reading.

Model Number	Dimensions (mm)						
	A	B	C	D	E	S	S1
GA918	117	43	1/2" NPTF	28,5	1/2" NPTF	29	38



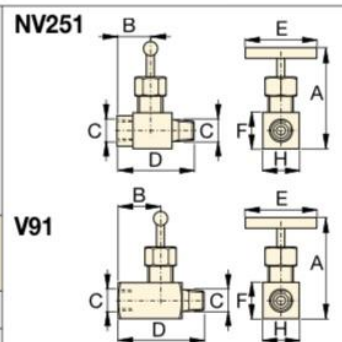
GA918



Needle Valves (V- and NV-Series)

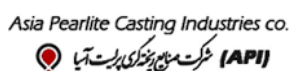
- Both NV251 and V91 provide positive shut-off
- 316 stainless steel stem, 24 threads/in (NV251).

Model Number	Orifice (mm)	Thread Size	Dimensions (mm)						
			A	B	C	D	E	F	H
NV251	4,3	1/4" NPTF	57	29	1/4" NPTF	57	46	19	19
V91	4,8	1/2" NPTF	89	32	1/2" NPTF	64	32	37	37



V91

برخی از مشتریان آرتیمان





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