

# HYDRAULIC

## Ratchet Jacks

### Benefits / Features

ratchet Jacks are widely used in oil fields, shipyards, mining operations, construction, railroads and heavy-duty industrial maintenance. These are the most versatile, general purpose jacks available. Rugged construction permits safe, efficient jacking. Steel lever bars are sold separately.

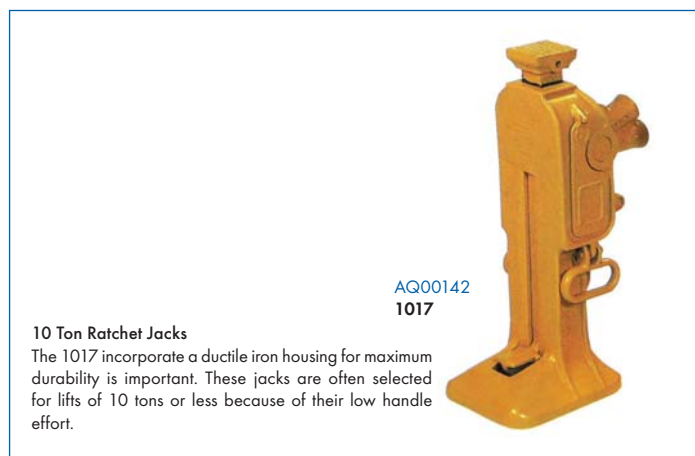
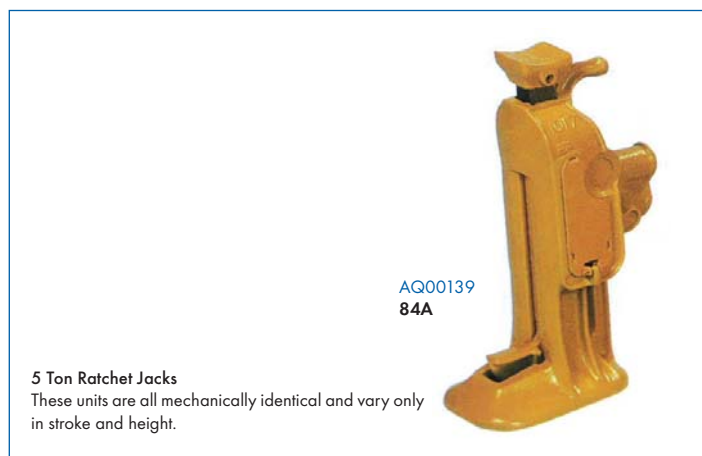
- 8 Models
- Double-lever sockets for jacking in close quarters.
- Multiple-tooth pawls for strength & safety.
- Drop-forged, alloy steel, heat-treated components.
- Adjustable springs links.
- Plated springs to resist corrosion.
- Precision machining throughout.
- Large base insures a firm foundation.
- Supports full rated capacity on the toe or the cap.



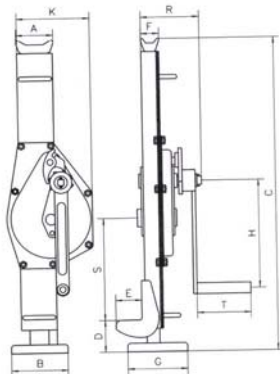
Here a model is used to lift a loaded shipping container. 5 ton lifting capacity, low toe height and light weight make the models universal tools. 10 ton models 1017 is used extensively by structural movers, riggers and maintenance crews.

Code No.	Model No.	Order No.	Supporting Cap. (ton)	Lifting (tons)	Stroke (in)	Handle Effort per ton (lbs)	Cap. Min Height (in)	Toe Min Height (in)	Base Size (in)	Weight (lbs)	Steel Lever Bars			
											Ordering No.	Length (in)	Diameter (in)	Weight (lbs)
AQ00139	84A	1040	5	5	7	32	14	1/3/4	5 x 7/3/8	28	10640	36	1	8
AQ00142	1017	1200	10	10	9/1/2	22	17/1/4	1/5/8	6x8/3/4	40	10665	60	1/1/4	17

\* Weight with 5 foot chain and steel lever - 115 lbs.



## Mechanical Jacks



Code	AQ02134	AQ02135	AQ02136	AQ02137	AQ02138	
Model	MJ 1.5	MJ 3.0	MJ 5.0	MJ 10	MJ 16	
Rated Capacity	t	1.5	3	5	10	16
Proof test load	KN	22	44.1	73.5	147	235
Hand force to lift rated load	N	280	350	400	580	800
	A	81	83	108	124	130
	B	100	130	140	140	150
	C	600-900	735-1090	730-1075	800-1190	820-1140
	D	60-360	70-425	80-425	100-490	90-410
Dimensions	E	55	60	71	86	80
	F	46	45	68	76	85
	G	110	138	170	170	180
mm	H	225	249	249	300	400
	KN	147	170	190	252	251
	R	119	140	155	185	220
	S	175	235	217	187	210
	T	113	128	128	250	280
Net weight	kg	14	20	28	46	63

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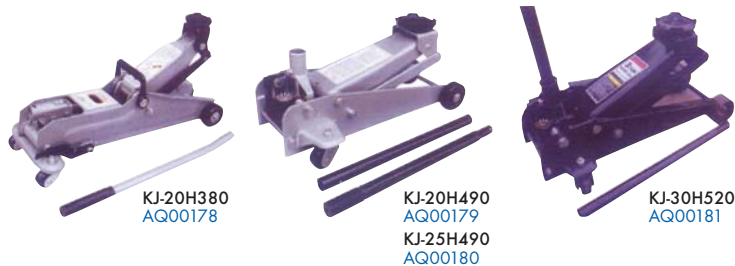
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## Service Jack

Used at automotive workshops and gasoline stations world over. All models are equipped with safety valve.

Code No.	Model No.	Capacity Ton	Min. Height mm	Max. Height mm	Weight kg	Package Size mm
AQ00178	KJ-20H380	2	133	380	11	520 x 188 x 148
AQ00179	KJ-20H490	2	130	490	36	750 x 370 x 200
AQ00180	KJ-25H490	2.5	130	490	34	720 x 360 x 200
AQ00181	KJ-30H520	3	145	520	39	750 x 370 x 200



## Hydraulic Press

Widely used at machinery, automotive and industrial workshops for straightening, bending and pressing steel plates and shafts. Also for removing and installing bushes and bearings.

Code No.	Model No.	Capacity Height (Ton)	Ram Stroke (mm)	Screw Stroke (mm)	Work Table (mm)	Work Frame Width (mm)	Vertical Movement (mm)	Weight (kg)
AQ00856	MHP-5	5	150	80	560	104	520	80
AQ00857	MHP-15	15	160	120	600	142	700	150
AQ00858	AHP-35	35	140	100	610	185	750	250
AQ00859	AHP-60	60	150	150	1100	234	600	800



## Hydraulic Single Acting Cylinder

- It can be designed practical size according to your requirements and divide into pushing type and pulling type.
- Cause using HONING, CYLINDER PIPE with excellent quality. The inside hole of cylinder was ground and processed by HONING used exclusively machine. Circular and rectilinear are perfect to match the standard of JIS industry.
- Cylinder is suit to the pressure of 70kg-210kg; the part of piston was passed by heat treatment and electroplated with hard-Chromium.
- It is used to the place where needs a long distance. If the length is not enough, can use a lump of iron or board to step high up.



Code No	Model	Capacity (Ton)	Stroke (mm)	Collapsed Height (mm)	Dimension (mm)	Weight (kg)
AQ03794	KC 101	10	40	75	Ø90 x 75	2.1
AQ03795	KC 102	10	50	90	Ø90 x 90	4.1
AQ03796	KC 204	20	100	152	Ø90 x 152	7
AQ03797	KC 206	20	150	209	Ø90 x 209	9.5
AQ03798	KC 203	20	60	108	Ø105 x 108	6.1
AQ03799	KC 304	30	100	160	Ø105 x 160	9.2
AQ03800	KC 306	30	150	214	Ø105 x 214	12.5
AQ03801	KC 303	30	70	125	Ø132 x 125	11.3
AQ03802	KC 504	50	100	162	Ø132 x 162	16
AQ03803	KC 506	50	150	222	Ø132 x 222	21
AQ03804	KC 502	50	50	120	Ø176 x 120	17
AQ03805	KC 1004	100	100	193	Ø176 x 193	30
AQ03806	KC 1006	100	150	248	Ø176 x 248	38

## Hydraulic Single Acting Flat Type Cylinder

- Handy type to be carried easily. There are two holes to be fixed on the plane of cylinder.
- The surface was treated by coating. Luster bright and not easy to rust.
- The piston is the material of high carbon-steel and treated by hard-chromium electroplating, which protects oil-ring to add using-life.
- Enclosed one dust cover on the joint to protect strip not to be bump.



Code No	Model	Capacity (Ton)	Stroke (mm)	Collapsed Height (mm)	Dimension (mm)	Weight (kg)
AQ03807	KRC 050	5	10	40	66x44x40	0.7
AQ03808	KRC 100	10	12	45	78x56x45	1.3
AQ03809	KRC 150	15	14	50	92x68x50	2
AQ03810	KRC 200	20	18	60	104x80x60	3.1
AQ03811	KRC 300	30	19	65	125x100x65	4.9
AQ03812	KRC 500	50	21	75	153x125x75	8.6
AQ03813	KRC 750	75	23	85	186x155x85	15.3
AQ03814	KRC 1000	100	27	95	206x175x95	20.7
AQ03815	KRC 1500	150	32	115	247x215x115	39

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## Double Acting Cylinder

If over the pressure, release valve can resist the danger.

- If over the pressure, release valve can resist the danger.
- Completed by coating to increase the resistance screw erosion.
- Axis ring of screw thread ensures the easy fixing.
- Double acting type to make quick and convenient response.
- Nickel plate and floating centre tube to increase using time.
- Middle empty type of piston allows pushing and pulling strong force.



AQ03816

Code No	Model	Capacity (Ton)	Stroke (mm)	Collapsed Height (mm)	Dimension (mm)	Weight (kg)
AQ03816	KRR 504	50	100	240	Ø135x240	21
AQ03817	KRR 506	50	150	290	Ø135x290	25
AQ03818	KRR 508	50	200	340	Ø135x340	29
AQ03819	KRR 1004	100	100	270	Ø176x270	41
AQ03820	KRR 1006	100	150	320	Ø176x320	48
AQ03821	KRR 1008	100	200	370	Ø176x370	54
AQ03822	KRR 2004	200	100	300	Ø244x300	89
AQ03823	KRR 2006	200	150	350	Ø244x350	102
AQ03824	KRR 2008	200	200	400	Ø244x400	115

## Hydraulic Hand Pump

- This design is for single-hole-operative pump with high, low of two section quick oil output. Even through under no electric, it is easy to operate. All the working pressure and function are the same as those power ones.
- They have foot and hand types with 2M hose which can order to extent its length.
- Pressure can be kept to stop. The inside of this pump is designed with safe high pressure of protective released valve.
- CP-700-2A and CFP-800 are equipped with large oil capacity which are used to bend tubes or 50 ton of rectangle hydraulic cylinder.

\*Please note: Large ton or rectangle hydraulic cylinder must choose this type.

Code No	Model	Oil Storage (L)	Maximum Pressure (psi)	Dimension (mm)	Weight (kg)
AQ03825	KP 03	0.3	10000	340x105x140	3.6
AQ03826	KP 10	1	10000	540x125x190	4.1
AQ03827	KP 20	2	10000	700x140x170	8



KP 03  
AQ03825



KP 10  
AQ03826



KP 20  
AQ03827

## Hydraulic Hose

6ft Hydraulic hose with fitting.



AQ03828

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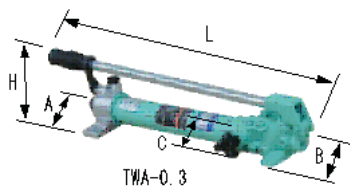
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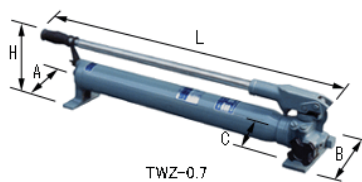
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## Hydraulic Hand Pump

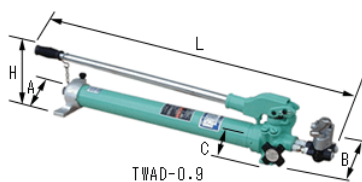
Osaka hydraulic hand pump are used as hydraulic driving source for operating jacks and equipment in connection with hoses.



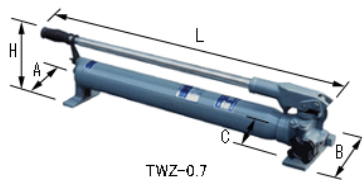
**TWA**  
High and low pressures, 2 stage oil output mechanism used for spring return jack. Pump body is made of special steel i.e. pressure resistant. Pump base is optional.



**LTWA**  
Oil tank, handle socket and stand are made of aluminium materials and light in weight. High and low pressures, 2 stages oil output mechanism High rust-proof effectiveness. Used for spring return jack and gravity return jack.



**TWAD**  
High and low pressures, 2 stages mechanism used for hydraulic return jack.



**TWAZ**  
High low two stage pump having automatic changeover mechanism. Available for 200 MPa pressure.

Code No.	Model	Usable Oil Volume (L)	High Working Pressure (PSI)	Low Working Pressure (PSI)	High Output Volume (ml)	Low Output Volume (ml)	Weight (kg)
AQ01759	TWA-0.3	0.3	10,440.00	435	1	5	3.5
AQ01760	TWA-0.7	0.7	10,440.00	435	2	11	7.0
AQ01761	TWA-0.9	0.9	10,440.00	435	2	11	7.9
AQ01762	TWA-1.3	1.3	10,440.00	435	2	11	9.0
AQ01763	TWA-2.3	2.3	10,440.00	435	2	24	13.8
AQ01764	TWA-4	4.0	10,440.00	435	2	11	13.2
AQ01765	TWA-6	6.0	10,440.00	435	2	24	19.5
AQ01766	TWA-8	8.0	10,440.00	290	9	90	57.0
AQ01767	LTWA-0.7	0.7	10,440.00	145	2	11	5.5
AQ01768	LTWA-0.9	0.9	10,440.00	145	2	11	5.9
AQ01769	TSA-0.7	0.7	10,440.00	-	2	-	7.0

Code No.	Model	Usable Oil Volume (L)	High Working Pressure (PSI)	Low Working Pressure (PSI)	High Output Volume (ml)	Low Output Volume (ml)	Weight (kg)
AQ01771	TWAD-0.9	0.9	10,440.00	435	2	11	9.0
AQ01772	TWAD-1.3	1.3	10,440.00	435	2	11	10.0
AQ01773	TWAD-2.3	2.3	10,440.00	435	2	24	14.8
AQ01774	TWAD-4	4	10,440.00	435	2	11	14.2
AQ01775	TWAD-6	6	10,440.00	435	2	24	20.5
AQ01776	TWAD-8	8	10,440.00	290	9	90	60.0

Code No.	Model	Usable Oil Volume (L)	High Working Pressure (PSI)	Low Working Pressure (PSI)	High Output Volume (ml)	Low Output Volume (ml)	Weight (kg)
AQ01777	TWAZ-0.7	0.7	29,000	435	0.6	11	7.0
AQ01778	TWAZ-1.3	1.3	29,000	435	1	11	9.0
AQ01779	TWAZ-2.3	2.3	29,000	435	1.6	31	14.8

## High Pressure Hose

Rubber and nylon hoses are superior in flexibility and easy to use.



High pressure rubber hose RH

AQ01780



High pressure nylon hose NH

AQ01783

Code No.	Model	Type	Max. Oil Flow (l/min)	High Working Pressure (PSI)	Min. Bend Radius (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Wt (kg/m)
AQ01780	RH6	RUBBER	8.0	10,440	90	6.3	15.1	0.39
AQ01781	RH9	RUBBER	20.0	10,440	150	9.5	22.2	0.82
AQ01782	RH12	RUBBER	40.0	10,440	180	12.7	27.8	1.36
AQ01783	NH5	NYLON	8.0	10,440	60	6.3	13	0.31
AQ01784	NH8	NYLON	20.0	10,440	85	8.2	14.1	0.32
AQ01785	NH11	NYLON	40.0	10,440	140	12.8	20.4	0.54
AQ01786	NH15	NYLON	80.0	10,440	225	16.3	25	1.05
AQ01787	NH452	NYLON	4.0	29,000	120	5.0	11.1	0.85

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