

Loquen



Catalog

Torque & Hidraulic Tools

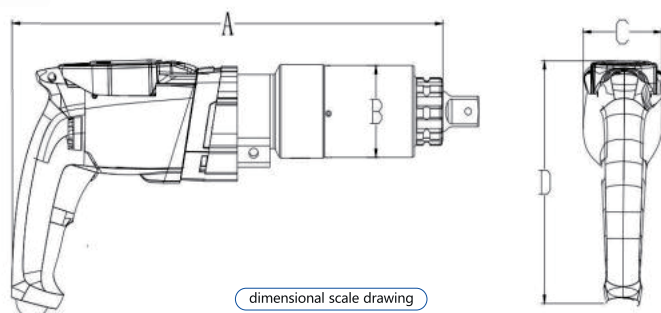


BRAC-S Series Plug-in Electric Torque Wrench



- Solved the spark problem of the brush motor from the principle, and can operate efficiently and stably, extending the service life of the carbon brush to a greater extent
- Stable torque output, not easily affected by voltage fluctuations and long distance cable, suitable for construction site applications
- Precision $\pm 5\%$, repeatability $\pm 2\%$
- Continuous rotation without impact, automatic stop when the preset torque value is reached, much more efficient than intermittently driven hydraulic wrenches
- Two operating modes: torque mode, torque+rotating angle mode
- Use of multi-stage gearbox. High reliability, high stability
- Standard counter acting force arm as the standard configuration, custom counter acting force arms available
- 110V-220V power, 50-60Hz, no need for an external pumping station and pipes

Commonly used reaction arms



dimensional scale drawing

Construction



Parameter table of BRAC-S series plug-in electric torque wrench

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.						
BRAC-S700	3/4 "	100	700	21	4	300	66	67	210
BRAC-S1400	1 "	200	1200	13	6.3	375	77	67	210
BRAC-S2200	1 "	300	2200	7	7	375	77	67	210
BRAC-S4000	1"or 1.5"	600	3700	4	9.5	425	92	67	210
BRAC-S5000	1 1/2 "	800	4800	3.1	12	435	102	67	210
BRAC-S6000	1 1/2 "	900	5700	3	12.5	435	110	67	210
BRAC-S8000	1 1/2 "	1200	7500	2	13	435	110	67	210
BRAC-S10000	1 1/2 "	1500	9500	1.5	18	455	116	67	210
BRAC-S12000	2 "	1800	11500	1	20	475	127	67	210

* BRAC-S series is available in wifi version(BRAC-S*W)/Bluetooth version (BRAC-S*B)

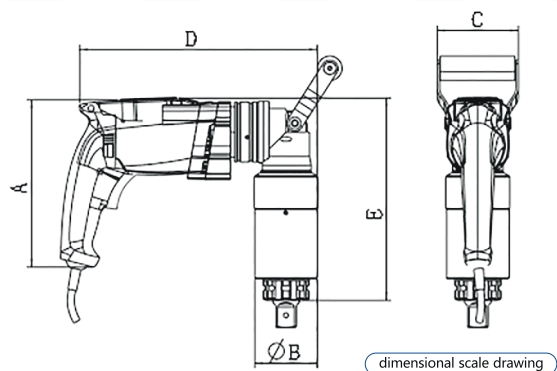
Remark: The above models are standard factory models with the adapter.

BRAC-A Series Plug-in Angle-handle Electric Torque Wrench



- Industrial grade design, high capacity of continuous use. Fully meet the requirements of production line assembly/engineering installation/maintenance.
- Torque overload protection system, effectively protect gears and mechanical system.
- Compared with straight torque wrench, angle-handle series are more suitable for narrow working space.
- Precision $\pm 5\%$, repeatability $\pm 2\%$.
- New human engineering designed handle. Buffer rubber can reduce vibration by 50%, freely connect with drive parts..
- Two operating modes: torque mode, torque+rotating angle mode
- 110-220V AC power, 50-60Hz, no need for an external pumping station and pipes.

Commonly used reaction arms



New ergonomically designed handle, featuring the cushion rubber reducing vibration by 50% and free connection with drive parts; rotatable to improve operating efficiency

- The curved-handle wrenches are more suitable for space-limited places
- High linkage capacity, fully meet the needs of production line assembly

Parameter table of BRAC-A series plug-in electric torque wrench

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)	Dimension E (mm)
		Min.	Max.							
BRAC-A700	3/4 "	100	700	20	6	210	66	100	285	230
BRAC-A1400	1 "	200	1400	10	6.8	210	77	100	292	250
BRAC-A2500	1 "	400	2500	6	9	210	77	100	292	250
BRAC-A4000	1"Or1.5 "	600	4000	4	10	210	92	100	315	280
BRAC-A5000	1 1/2 "	800	5000	3.5	13.5	210	102	100	330	320
BRAC-A6000	1 1/2 "	900	6000	3	14.2	210	110	100	345	320
BRAC-A8000	1 1/2 "	1200	8000	2	15.7	210	110	100	355	330
BRAC-A10000	1 1/2 "	1500	10000	1.5	19	210	116	100	370	350

* BRAC-A series is available in wifi version(BRAC-A*W)/Bluetooth version (BRAC-A*B)

Remark: The above models are standard factory models with the adapter.

BRDC-LS Series Rechargeable Intelligent Large-screen Lithium Battery Torque Wrench

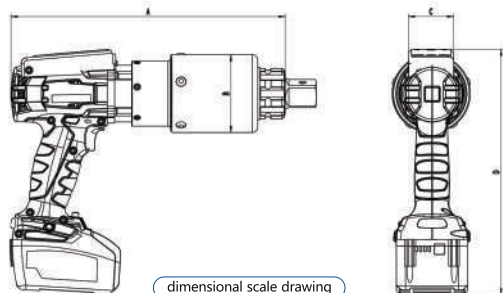


Digital control interface



- Digital adjustment and display of the torque and the operating status and parameters of the wrench
- High speed pre-tightening of nuts in place, final tightening controlled by torque or rotation angle
- Precision $\pm 5\%$, repeatability $\pm 2\%$
- Remote synchronous operation of multiple devices to meet the requirements of special working conditions
- Optional ultra long endurance ability of lithium power pack, improving the work efficiency.
- Battery level monitoring and compensation, motor temperature compensation, and dynamic torque compensation
- The torque can be set to be any value within the operating range of the torque wrench
- Use of multi-stage gearbox, highly reliable and highly stable
- Support the torque + rotation angle mode
- Motor overheating protection function
- High precision planetary gear reduction mechanism, stable operation, sturdy and durable

Commonly used reaction arms



dimensional scale drawing

Construction



Parameter table of BRDC-LS series rechargeable intelligent large-screen lithium battery torque wrench

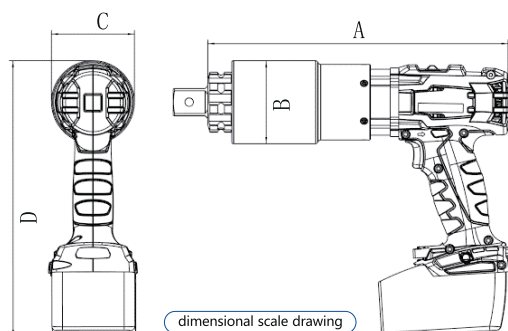
Model	Square Drive	Torque (Nm)		Speed (rpm)	Total Weight (kg)	Weight of Single Battery (kg)	Weight of Reaction Arm (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.								
BRDC-LS250	0.75"	50	250	25	2.9	0.7	0.4	210	62	62	267
BRDC-LS500	0.75"	70	500	10	3.5	0.7	1.6	230	65	65	267
BRDC-LS800	0.75"	120	800	8	4	0.7	1.6	250	71	71	267
BRDC-LS1200	1"	200	1200	5	5	0.7	1.6	265	78	78	267
BRDC-LS2000	1"	300	2000	3.5	5.3	0.7	1.6	280	78	78	267
BRDC-LS3000	1"	400	3000	2.2	6.5	0.7	1.6	290	82	82	267
BRDC-LS4000	1" or 1.5"	600	3800	1.8	6.8	0.7	1.6	300	85	85	267
BRDC-LS5000	1.5"	700	5000	1.5	11	0.7	3.2	310	103	103	267
BRDC-LS6000	1.5"	900	6000	1.2	12.5	0.7	3.2	325	111	111	267
BRDC-LS8000	1.5"	1200	8000	1	13.5	0.7	3.2	350	115	115	267
BRDC-LS12000	2"	2400	12000	0.5	15	0.7	5.6	360	121	121	267

* BRDC-LS series is available in wifi version (BRDC-LS*W)/Bluetooth version (BRDC-LS*B)

BRDC-SS Series Rechargeable Intelligent Small-screen Lithium Battery Torque Wrench


- Remote synchronous operation of multiple devices to meet the requirements of special working conditions
- Optional ultra long endurance ability of lithium power pack, improving the work efficiency.
- Digital adjustment and display of the torque and the operating status and parameters of the wrench, adjustment among multiple modes
- Use of multi-stage gearbox, highly reliable and highly stable
- Buzzer alert, tightening result judgment function, background torque calibration function
- Software compensation function, overheating temperature monitoring function
- Standard counter acting force arm as the standard configuration, custom counter acting force arms available
- Optional torque + rotation angle mode
- Precision $\pm 5\%$, repeatability $\pm 2\%$

Commonly used reaction arms



Construction



Parameter table of BRDC-SS series rechargeable intelligent small-screen torque wrenches

Model	Square Drive	Torque (Nm)		Speed (rpm)	Total Weight (kg)	Weight of Single Battery (kg)	Weight of Reaction Arm (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)	Remarks
		Min.	Max.									
BRDC-SS120	1/2 "	50	120	43	2.6	0.7	0.4	126	50	56	267	Fine tooth
BRDC-SS250	3/4 "	50	250	25	2.9	0.7	0.4	210	62	62	267	
BRDC-SS500	3/4 "	70	500	10	3.5	0.7	1.6	210	65	65	267	
BRDC-SS800	3/4 "	120	800	8	4	0.7	1.6	250	71	71	267	Coarse teeth
BRDC-SS1200	1 "	200	1200	5	5	0.7	1.6	265	78	78	267	
BRDC-SS2000	1 "	300	2000	3.5	5.3	0.7	1.6	280	78	78	267	
BRDC-SS3000	1 "	400	3000	2.2	6.5	0.7	1.6	290	82	82	267	
BRDC-SS4000	1" or 1.5"	600	3800	1.8	6.8	0.7	1.6	300	85	85	267	
BRDC-SS5000	1 1/2 "	700	5000	1.5	11	0.7	3.2	310	103	103	267	
BRDC-SS6000	1 1/2 "	900	6000	1.2	12.5	0.7	3.2	325	111	111	267	
BRDC-SS8000	1 1/2 "	1200	8000	1	13.5	0.7	3.2	350	115	115	267	
BRDC-SS12000	2 "	2400	12000	0.5	15	0.7	5.6	360	121	121	267	

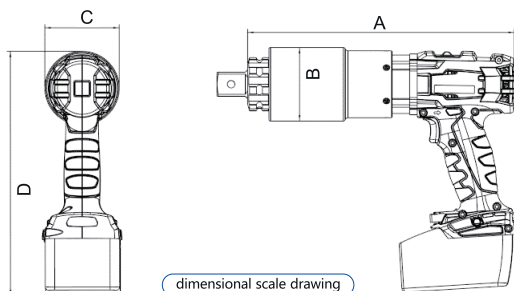
* BRDC-SS series is available in wifi version (BRDC-SS*W)/Bluetooth version (BRDC-SS*B)

BRDC-E Series Rechargeable Torque Wrench With Torque Sensor



- High precision torque sensor, high speed and precise function. can meet the user's main application, support a variety of operating modes
- Precision $\pm 3\%$, repeatability $\pm 2\%$
- Novel structure, small size, light, safe and reliable
- Remote synchronous operation of multiple devices to meet the requirements of special working conditions
- Standard counter acting force arm as the standard configuration, custom counter acting force arms available
- Buzzer alert, tightening result judgment function, background torque calibration function
- Software compensation function, overheating temperature monitoring function

Commonly used reaction arms



dimensional scale drawing



Parameter Table of BRDC-E Series Rechargeable Torque Wrench With Torque Sensor

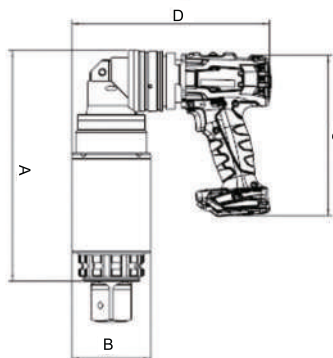
Model	Square Drive	Torque (Nm)		Speed (rpm)	Total Weight (kg)	Weight of Single Battery (kg)	Weight of Reaction Arm (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)	Remarks
		Min.	Max.									
BRDC-E120	1/2 "	50	120	43	2.1	0.7	0.8	126	50	56	220	Fine tooth
BRDC-E250	3/4 "	50	250	25	2.9	0.7	0.8	210	62	62	267	
BRDC-E500	3/4 "	70	500	10	4	0.7	1.6	210	65	65	267	
BRDC-E800	3/4 "	120	800	8	4.5	0.7	1.6	250	71	71	267	
BRDC-E1200	1 "	200	1200	5	5	0.7	1.6	265	78	78	267	Coarse teeth
BRDC-E2000	1 "	300	1800	3.5	5.3	0.7	1.6	280	78	78	267	
BRDC-E3000	1 "	400	3000	2.2	6.5	0.7	1.6	290	82	82	267	
BRDC-E4000	1" or 1.5"	600	3800	1.8	6.2	0.8	2.2	300	85	85	267	
BRDC-E5000	1 1/2 "	700	5000	1.5	9.5	0.7	3.2	310	103	103	267	
BRDC-E6000	1 1/2 "	900	6000	1.2	12.5	0.7	3.2	325	111	111	267	
BRDC-E8000	1 1/2 "	1200	8000	1	13.5	0.7	3.2	350	115	115	267	
BRDC-E12000	2 "	2400	12000	0.5	15	0.7	5.6	360	121	121	267	

* BRDC-E series is available in wifi version (BRDC-E*W)/Bluetooth version (BRDC-E*B)

BRDC-A Series Intelligent Small Screen Curved Handle Battery Torque Wrench



Digital control interface



dimensional scale drawing



- Compared with straight handle wrenches, curved handle series wrenches are more suitable for situations with limited space
- Standard configuration includes 2 18V 5.2Ah lithium batteries, with optional battery pack components for extended battery life and improved work efficiency
- Industrial grade design, strong continuous use capability, fully meets the needs of production line assembly/engineering installation/maintenance
- Torque overload protection system, effectively protects gears and mechanical system
- Accuracy $\pm 5\%$, repeatability $\pm 2\%$

Commonly used reaction arms



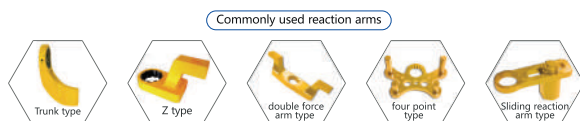
Parameter table of BRDC-A series battery intelligent small screen curved handle torque wrench

Model	Square Drive	Torque (Nm)		Speed (rpm)	Total Weight (kg)	Weight of Single Battery (kg)	Weight of Reaction Arm (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.								
BRDC-A5000	1 1/2 "	800	5000	1.5	11	0.7	3.2	280	97	200	242

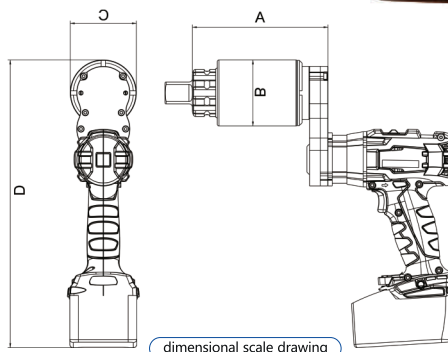
BRDC-Z Series Battery Offset Electric Torque Wrench



- BRDC-Z series is suitable for workplaces with limited space, providing great flexibility.
- Suitable for small torque electric wrenches, light and easy to operate.



Commonly used reaction arms



dimensional scale drawing



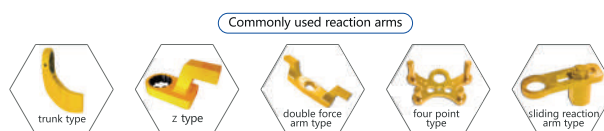
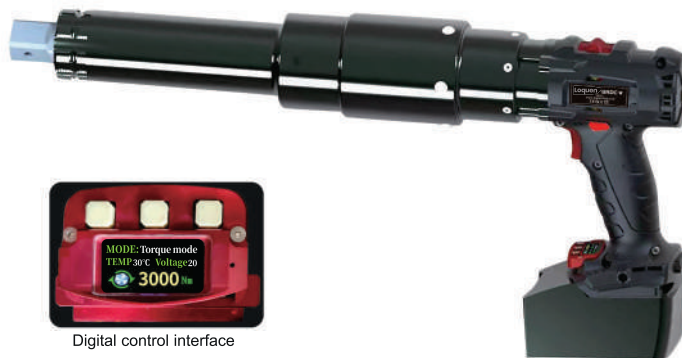
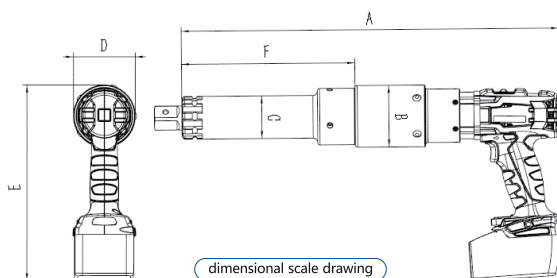
Parameter table for BRDC-Z series battery offset electric torque wrench

Model	Square Drive	Torque (Nm)		Speed (rpm)	Total Weight (kg)	Weight of Single Battery (kg)	Weight of Reaction Arm (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.								
BRDC-Z1800	1"	300	1800	2.5	5.5	0.7	1.6	158	77	77	336

BRDC-LL Series Rechargeable Intelligent Small-screen Long-gun Torque Wrench



- Long-gun design, ergonomic and lighter.
- Precision $\pm 5\%$, repeatability $\pm 2\%$
- Compact planetary design, small size, greater torque / weight ratio, excellent stability



parameter table of BRDC-LL Series rechargeable intelligent small-screen long-gun torque wrenches

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight of Single Battery (kg)	Total Weight (kg)	Weight of Reaction Arm (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)	Dimension E (mm)	Dimension F (mm)
		Min.	Max.										
BRDC-LL1200	1"	100	1200	4	0.7	4	1.6	450	77	56	77	240	230
BRDC-LL2000	1"	200	2000	3	0.7	5	1.6	470	77	56	77	240	230
BRDC-LL3000	1"	300	3000	2.5	0.7	6	1.6	495	82	56	82	240	230
BRDC-LL4000	1" or 1.5"	600	4000	2	0.7	7	1.6	530	85	60	85	240	230

Power Lithium Battery

- Loquen power lithium battery, safe and stable portable, simple to use
- Large capacity, long life, can guarantee the wrench work for a long time
- Continuous operation for 8 hours, normal use for 2 days

Parameter Table of Style A Lithium Battery Power Pack

Specifications		Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Voltage (V)	Current (ah)				
19.2	80	260	170	290	15

Parameter Table of Style B Lithium Battery Power Pack

Specifications		Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Voltage (V)	Current (ah)				
18	40	260	170	290	15

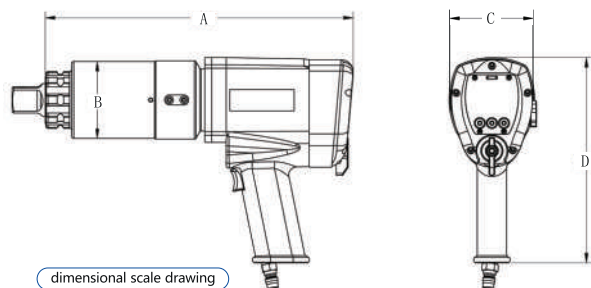


BRPW-S Series Digital Display Pneumatic Torque Wrench



- Accurate display of pressure required for the preset torque
- Precision $\pm 5\%$, repeatability $\pm 2\%$
- Full-course dynamic display of real-time torque
- Use of multi-stage gearbox, with unrivaled reliability and uniform, stable output
- Special designed custom removable reaction arm, fit for almost all system configurations

Commonly used reaction arms



dimensional scale drawing

Construction



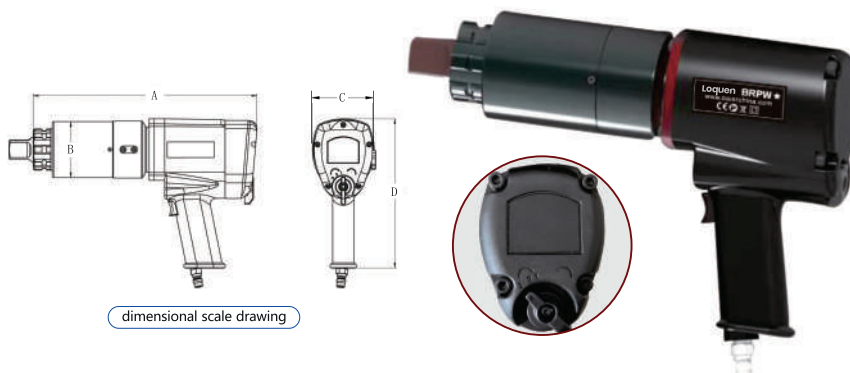
Parameter table of BRPW-S series pneumatic torque wrench

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.						
BRPW-S500	0.75 "	130	500	25	6.8	180	63	67	220
BRPW-S800	0.75 "	200	800	11	7.2	220	69	67	240
BRPW-S1200	1 "	300	1200	11	7.2	245	75	67	240
BRPW-S1500	1 "	400	1500	9	7.2	260	75	67	240
BRPW-S2000	1 "	500	2000	6	7.2	285	75	88	260
BRPW-S3000	1 "	700	3000	5.5	7.2	315	90	88	275
BRPW-S4000	1"/1.5"	1000	4000	4	10	340	90	88	280
BRPW-S6000	1.5 "	1500	6000	2	15	365	105	88	290
BRPW-S8000	1.5"	2000	8000	1.3	17	365	110	82	290

BRPW-M Series Mechanical Pneumatic Torque Wrench



- Precision $\pm 5\%$, repeatability $\pm 2\%$
- Use of multi-stage gearbox, with unrivaled reliability and uniform, stable output
- Special designed custom removable reaction arm, fit for almost all system configurations



dimensional scale drawing

Commonly used reaction arms



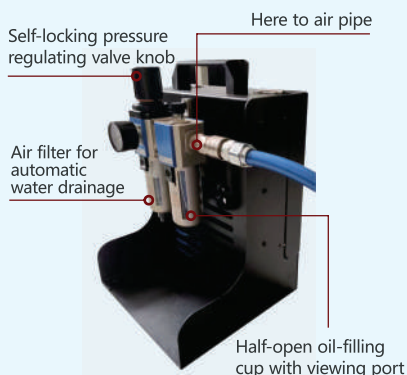
Parameter Table of BRPW-M series pneumatic torque wrench

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.						
BRPW-M500	0.75 "	130	500	25	6.8	180	63	67	220
BRPW-M800	0.75 "	200	800	11	7.2	220	69	67	240
BRPW-M1200	1 "	300	1200	11	7.2	245	75	67	240
BRPW-M1500	1 "	400	1500	9	7.2	260	75	67	240
BRPW-M2000	1 "	500	2000	6	7.2	285	75	88	260
BRPW-M3000	1 "	700	3000	5.5	7.2	315	90	88	275
BRPW-M4000	1"/1.5"	1000	4000	4	10	340	90	88	280
BRPW-M6000	1.5 "	1500	6000	2	15	365	105	88	290
BRPW-M8000	1.5"	2000	8000	1.3	17	365	110	82	290

The Triplex Device Kit includes a pressure gauge, a pressure regulating valve and a grease squirt

Use with Loquen pneumatic torque wrench to ensure that a bolt load within the precision can be obtained every time.

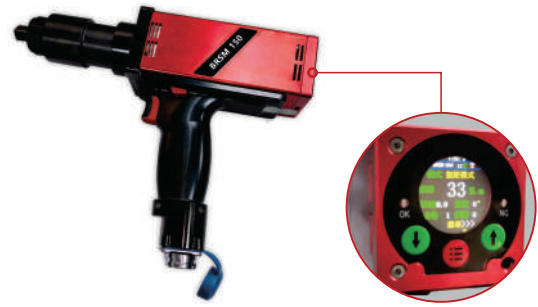
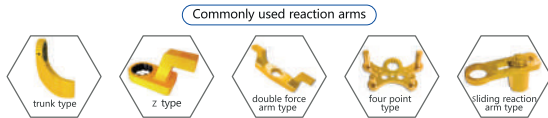
- High-density polypropylene construction realizes maximum load capacity while ensuring light weight so as to be convenient and easy to carry
- Provided with the triplex device and air pipe fittings
- Fittings storage slots facilitate extraction of additional fittings such as the custom reaction arm, snap ring and sockets.



Max. torque	The Triplex Device Kit			Remark
	Joint model	Length of air tube	Air tube model	
Below 4000Nm	Screw type female joint (small) 103151066	5m	Q05	Standard
		6m	Q06	Optional
		7m	Q07	
		8m	Q08	
		9m	Q09	
		10m	Q10	
4000Nm and above	Screw type female joint (big) 104102066	5m	Q05	Standard
		6m	Q06	Optional
		7m	Q07	
		8m	Q08	
		9m	Q09	
		10m	Q10	

BRS Serie Servo Precision Control High Efficiency Torque Wrench(Standard type)

- BRS150 accuracy $\pm 5\%$, other models accuracy $\pm 3\%$; Repeatability $\pm 2\%$.
- The driving part adopts efficient AC servo motors, and the PLC system achieves high-speed and precise control.
- No control box, operate directly using the button at the end of the wrench.

**Parameter Table of BRS series servo precision control high efficiency torque wrench**

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.						
BRS150	1/2"	30	150	50	3.5	284	53	72	230
BRS500	3/4"	80	500	26	6	296	70	72	230
BRS2000	1"	200	2000	15	9	340	82	80	292
BRS3000	1"	300	3000	10	8.1	360	83	88	245
BRS4000	1"/1.5"	600	4000	8	11	380	85	88	290
BRS6000	1.5"	800	6000	5	17	412	103	88	285
BRS8000	1.5"	1500	8000	4	20	430	104	110	290
BRS10000	1.5"	2000	10000	5	28	515	116	130	300
BRS15000	2"	5000	15000	4	35	540	135	140	310
BRS20000	2"	3500	20000	3.5	35	527	152	130	305

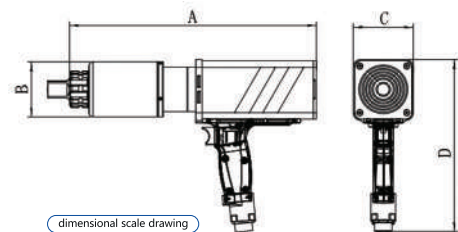
BRSH Series Electronic Precision Control Servo Torque Wrench (High speed type)

* Servo Precision High-efficiency Torque Wrench Kit

10 inch high-definition display screen

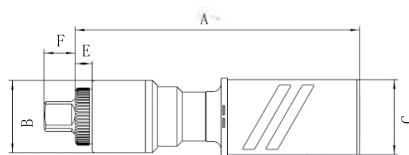


- BRSH150 accuracy $\pm 5\%$, other models accuracy $\pm 3\%$; Repeatability $\pm 2\%$.
- 10 inch HD touch screen display
- Multiple online operations, accurate synchronization
- Data local storage + automatic cloud upload
- Operating mode: manual mode or automatic mode

**Parameter Table of Electronic Precision Control Servo Torque Wrench BRSH Series**

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
		Min.	Max.						
BRSH150	1/2"	30	150	70	3.5	284	53	72	230
BRSH500	3/4"	80	500	26	6	296	70	72	230
BRSH4000	1"/1.5"	600	4000	10	11	400	90	100	285
BRSH6000	1.5"	800	6000	9	20	480	112	108	285
BRSH8000	1.5"	1500	8000	9	27	500	115	108	290
BRSH20000	2"	3500	20000	3.5	35	527	152	130	305

BRSP Series Servo Turning Torque Wrench



dimensional scale drawing



For large wind or thermal power generating units, before maintenance and overhaul work, the spindle needs to be stopped. Usually by manual rotation of high-speed shaft brake disc, the spindle and hub adjusted to a certain position to carry out maintenance. This operation of rotating a high-speed shaft brake disc is called "turning." Torque monitoring is needed when turning, and the turning time is long. The traditional turning system is bulky and not convenient for maintenance and arrangement. Servo turning system series is a new generation of digital technology AC servo torque system driven turning system. The control system and drive shaft can be disassembled separately, suitable for all kinds of narrow station, steam turbine and other units overhaul.

- Accuracy: $\pm 5\%$. Repeatability: $\pm 2\%$.
- Speed can be set.
- Real-time monitoring of turning torque
- Extreme torque alarm and emergency stop
- Real-time monitoring rolling status
- Manual / automatic rolling dual

Parameter Table of Servo Turning Torque Wrench BRSP Series

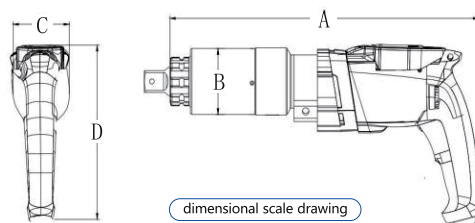
Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)	Dimension E (mm)	Dimension F (mm)
		Min.	Max.								
BRSP15000	2"	5000	15000	3.7	35	537	136	140	312	32	58

Note: * Commonly used working torque should be below 80% of the maximum torque of the torque. If some specifications and parameters have been adjusted, subject to the manufacturer's notice

* Total weight including battery, without reaction arm* Size F for each model can be customized as needed

BRAC4000-PC Special Series Torque Wrench For Turning Gear

- 110-220V AC power.
- Due to the long turning time, it saves manpower.
- Dual support for manual/automatic turning.
- Support USB data storage and statistical results.



dimensional scale drawing

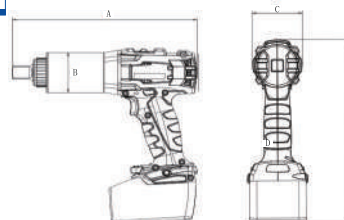


Parameter Table For BRAC4000-PC Special Torque Wrench For Turning Gear

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)	Remarks
		Min.	Max.							
BRAC4000-PC	1.5"	600	4000	4	9.5	425	92	67	210	Fine tooth

BRDC120-PC Special Series Battery Torque Wrench for Turning Gear

- Due to the long turning time, it can greatly save manpower.
- Dual support for manual/automatic turning.
- Rechargeable batteries or optional battery packs can be used.
- Statistics of the results of the turning operation, supporting USB data storage.



Parameter Table For BRDC120-PC Special Cordless Torque Wrench For Turning Gear

Model	Square Drive	Torque (Nm)		Speed (rpm)	Weight of Single Battery (kg)	Weight (kg)	Weight of Reaction Arm (kg)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)	Remarks
		Min.	Max.									
BRDC120-PC	1/2"	30	120	70	0.7	2.6	0.6	255	58	69	254	Fine tooth

Torque Tester

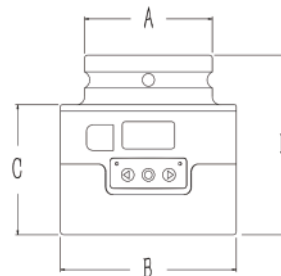
- Detect and display real-time torque values on the screen during the process of tightening and disassembling bolts and nuts through sensors.
- The peak torque value can be detected during the tightening and disassembling of bolts and nuts.

Model	Square drive	A/F size	Torque	
			Min. (Nm)	Max. (Nm)
REL-30	0.75"/1"	30	200	2000
REL-36	0.75"/1"	36	200	2000
REL-46	0.75"/1"	46	200	2000
REL-50	0.75"/1"	50	400	4000
REL-55	0.75"/1"	55	400	4000
REL-60	0.75"/1"/1.5"	60	400	4000
REL-65	0.75"/1"/1.5"	65	600	6000
REL-70	0.75"/1"/1.5"	70	600	6000
REL-75	0.75"/1"/1.5"	75	600	6000
REL-80	1"/1.5"	80	1000	10000
REL-130	1"/1.5"/2"	130	2500	25000



Digital Transducer Socket

- Detect and display real-time torque values on the screen during the process of tightening and disassembling bolts and nuts through sensors.
- The peak torque value can be detected during the tightening and disassembling of bolts and nuts.
- Convenient to carry, easy to operate, and easy to get data.
- The transducer socket can be used as a torque calibration device and can be used to calibrate various wrenches at any time.

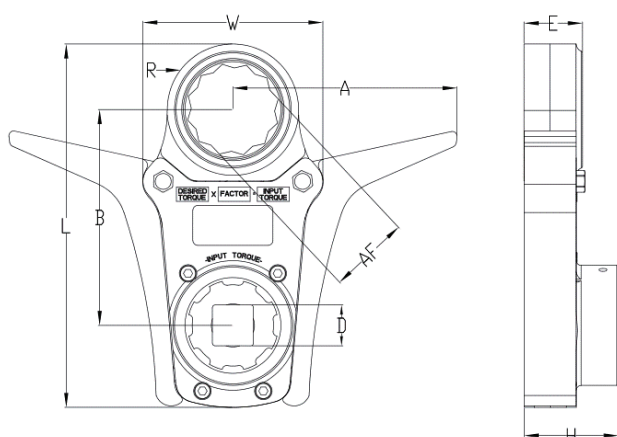


Model	Square drive	A/F size	Torque		Size A (mm)	Size B (mm)	Size C (mm)	Size D (mm)	Weight (kg)
			Min. (Nm)	Max. (Nm)					
RESL-30	1"	30mm	100	1000	54	72	65	86	1.2
RESL-36	1"	36mm	200	2000	54	72	65	86	1.2
RESL-46	1"	46mm	200	2000	54	72	65	86	1.2
RESL-50	1"	50mm	400	4000	70	90	75	102	2.2
RESL-55	1"	55mm	400	4000	70	90	75	102	2.2
RESL-60	1"	60mm	400	4000	70	90	75	102	2.2
RESL-65	1.5"	65mm	600	6000	80	110	81	112	3.4
RESL-70	1.5"	70mm	600	6000	80	110	81	112	3.4
RESL-75	1.5"	75mm	600	6000	80	110	81	112	3.4
RESL-80	1.5"	80mm	1000	10000	87	115	92	121	4.2
RESL1-130	2.5"	130mm	3500	23000	130	186	150	210	17

Remark: RESL-70*W is wifi version, and RESL-70*B is bluetooth version.

Offset Gear

- High strength alloy steel provides excellent ruggedness and durability
- Effective surface treatment, more resistant to corrosion
- Tightening or removing nuts through gear drive, perfectly solving the problem of limited space
- Different specifications for different operating conditions

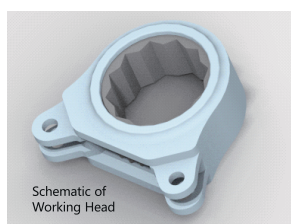


dimensional scale drawing



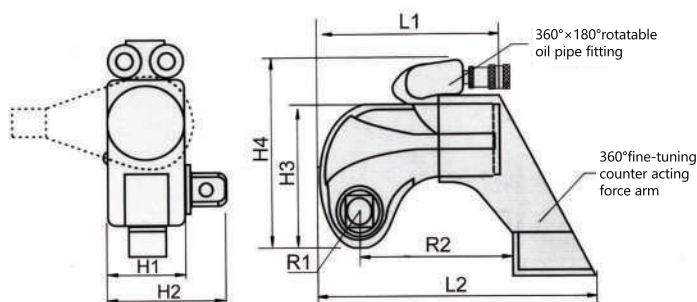
Parameter table of BROL series Offset-gear

Model	Max Used Torque (Nm)	Size A (mm)	Size AF (mm)	Size B (mm)	Size D (mm)	Size R (mm)	Size L (mm)	Size E (mm)	Size H (mm)
BROL-S50-S36	2000	140	36	131	1" (3/4")	37.5	220	36	58
BROL-S50-S41	2000	140	41	131	1" (3/4")	41	227	36	58
BROL-S50-S46	2000	140	46	135	1" (3/4")	41	227	36	58
BROL-S50-S50	2000	140	50	135	1" (3/4")	41	227	36	58
BROL-S60-S55	2000	140	55	140	1" (3/4")	47.5	240	36	58
BROL-S60-S60	2000	140	60	140	1" (3/4")	47.5	240	36	58



Detachable Adaptable Table of BROL Series Offset-gear

Body type	Adaptable working head type			
BROL-S50	TS36	TS41	TS46	TS50
BROL-S60	TS55	TS60		

RTA Series Driven Hydraulic Torque Wrench**Hexagonal drive**

Loquen can customize the hexagonal drive of various special specifications for users

**Select the correct torque**

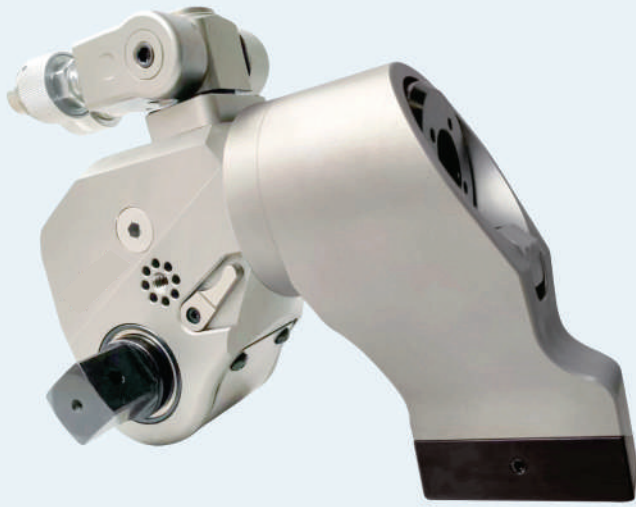
Before selecting a wrench, you should confirm the following principle: The torque for loosening and removing a bolt should be at least 150% of the torque for tightening the bolt.

- Integrated body, made of Al-Ti alloy, an ultra-high strength light metal for the aeronautical material, comprehensively strengthening the body strength and toughness
- The trigger latch is easy to press, so you can position the 360° fine-tuning counter acting force arm on the solid pivot point as you like
- 360°× 180° rotatable oil pipe fitting, without space limitation, allowing free operation
- Precision ratchet, precision up to $\pm 3\%$
- Anti-corrosion surface treatment
- A special non-return detent, and a pressure release trigger, to overcome tool reversion caused by the bolt rotating back, improving efficiency and ensuring high precision torque setting
- A special humanized light weight handle, safer and more convenient to use
- Laser engraved pressure-torque comparison table on the cover plate

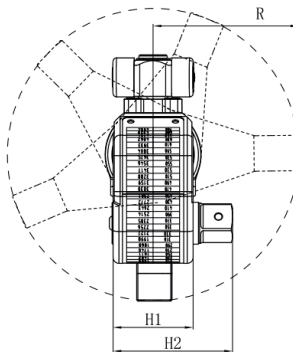
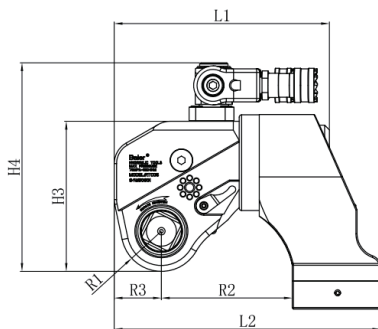


Model	Order Number	Torque (Nm)		Bolt Range M (mm)	Weight (kg)	Dimensions (mm)								Drive shaft	
		Min.	Max.			L1	L2	H1	H2	H3	H4	R1	R2	Imperial (in)	Metric (mm)
RTA02	S02-010100001	167	1767	16-36	2.0	122	178	50	72	92	119	25	97	3/4"	19
RTA05	S02-010100004	436	4336	22-48	4.2	156	230	67	94	122	171	32	130	1"	25
RTA08	S02-010100005	746	7426	27-56	7.0	180	274	80	122	146	197	37	155	1 1/2"	38
RTA11	S02-010100007	1017	10435	30-64	9.1	208	297	90	134	164	210	45	188	1 1/2"	38
RTA16	S02-010100010	1513	15098	36-72	13.1	244	353	100	142	183	232	50	193	1 1/2"	38
RTA20	S02-010100011	1945	19413	39-85	19.5	277	418	110	163	208	246	59	223	2 1/2"	64
RTA28	S02-010100008	2516	26453	42-90	25.0	295	444	120	181	223	260	65	250	2 1/2"	64
RTA36	S02-010100009	3315	34652	48-100	31.0	319	466	137	197	260	315	71	264	2 1/2"	64
RTA50	S02-010100002	4762	47453	64-120	45.0	353	490	153	214	281	331	76	280	2 1/2"	64
RTA70	S02-010100003	6955	69283	76-150	68.5	445	560	185	248	308	360	85	334	2 1/2"	64

RTC Series Drive Hydraulic Torque Wrench



- 360°×180°rotatable oil pipe fitting, without space limitation
- 360° fine-tuning counter acting force arm, suitable for a variety of pivots. You can also select other models of counter acting force arms according to the working conditions
- Integrated body, made of Al-Ti alloy, high strength and high toughness
- New anti-loosening fitting to ensure the smooth oil circuit
- Maximum operating pressure 70MPa, precision up to ±3%

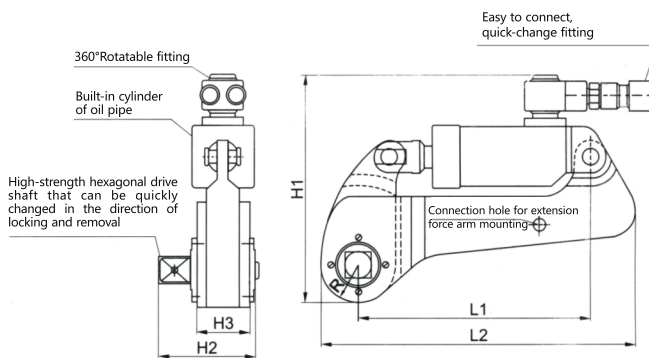


Model	Order Number	Torque (Nm)		Bolt Range M (mm)	Weight (kg)	Dimensions (mm)										Drive shaft
		Min.	Max.			L1	L2	H1	H2	H3	H4	R	R1	R2	R3	
RTC01	S02-010300011	110	1120	14-30	1.8	111	139	42	66	76	108	75	21	68	25	3/4"
RTC02	S02-010300005	183	1835	16-36	2.5	145	174	50	72	96	131	92	26	85	29	3/4"
RTC05	S02-010300004	450	4512	22-48	5	178	229	68	95	127	177	124	34	114	40	1"
RTC08	S02-010300002	753	7525	27-56	8	211	271	80	123	149	199	140	39	137	47	1-1/2"
RTC10	S02-010300003	1078	10780	30-64	11	222	293	90	134	167	217	165	47	153	47	1-1/2"
RTC16	S02-010300001	1550	15516	36-72	15	246	318	100	142	182	232	178	51	154	59	1-1/2"
RTC20	S02-010300006	2019	20194	39-80	23	293	361	112	167	206	276	189	56	174	67	2-1/2"
RTC28	S02-010300007	2666	26664	42-90	26.5	308	384	120	183	220	270	213	59	186	71	2-1/2"
RTC36	S02-010300008	3470	34725	48-100	35	323	401	137	200	247	297	228	66	199	73	2-1/2"
RTC50	S02-010300009	4866	48666	64-120	50	373	497	153	216	282	332	244	77	241	90	2-1/2"
RTC70	S02-010300010	7200	72000	72-125	87	400	516	160	223	291	341	258	81	259	98	2-1/2"

■ Please contact Loquen sales engineer to confirm the socket size

■ Determine the torque based on the size of the bolt and nut

■ The heavy-duty socket is an additional option

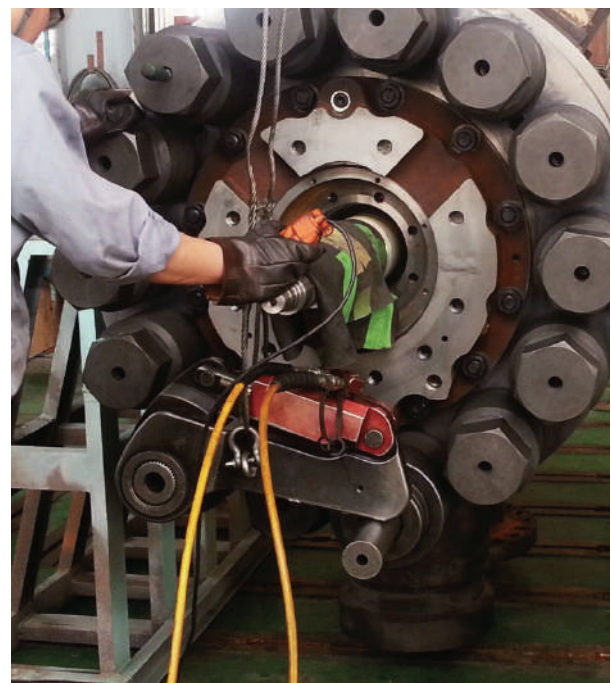
RTE Series High Power Drive Shaft Type Hydraulic Torque Wrench**Hexagonal drive**

Loquen can customize the hexagonal drive of various special specifications for users

**Select the correct torque**

Before selecting a wrench, you should confirm the following principle: The torque for loosening and removing a bolt should be at least 150% of the torque for tightening the bolt.

- Made of ultra-high strength alloy steel by the CNC machining center
- 360° rotatable oil pipe fitting, without space limitation
- Simple structure, easy maintenance and economically affordable
- Adapt to a variety of sleeves (A, B, C, D type) and extra-long sleeves to meet the requirements of different working conditions
- The rotation angle of a single operation can reach 32°, high work efficiency



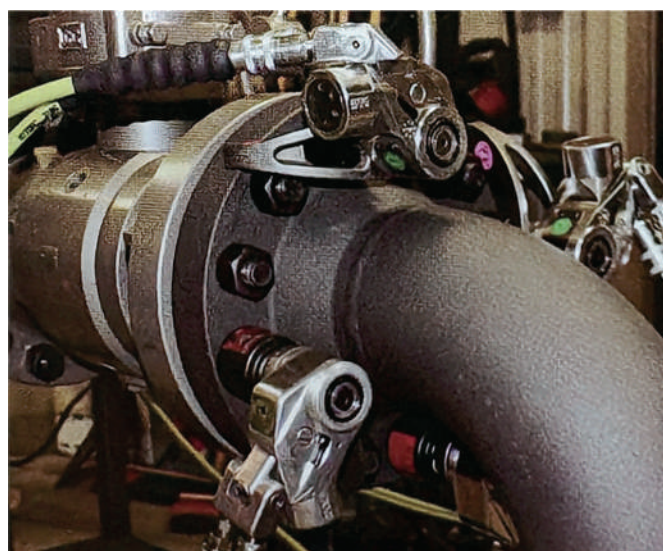
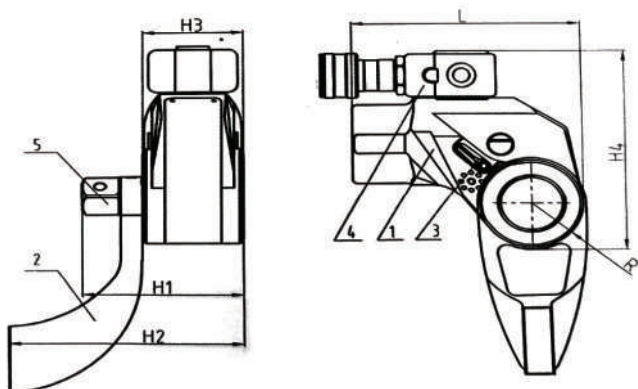
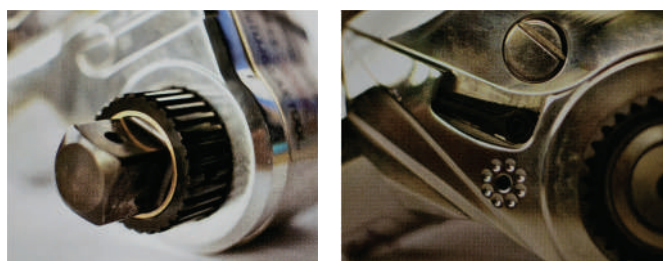
Model	Order Number	Torque (Nm)		Weight (kg)	Dimensions (mm)						Imperial (in)
		Min.	Max.		L1	L2	H1	H2	H3	R	
RTE05	S02-010500003	516	5016	7	211	289	204	91	50	35	1"
RTE10	S02-010500001	1150	11766	14	256	355	251	125	69	45	1 1/2"
RTE20	S02-010500002	1959	19583	19	274	389	285	141	78	52	2"
RTE40	S02-010500006	3870	38400	37	329	473	332	174	96	70	2 1/2"
RTE60	S02-010500004	5760	57499	53	370	542	382	179	101	80	2 1/2"
RTE80	S02-010500005	7938	79379	79	409	598	424	208	118	88	3"
RTE100	S02-010500009	10460	103650	91	430	624	430	227	124	94	3 1/4"
RTE120	S02-010500007	12132	120383	122	447	655	453	240	132	102	3 1/2"
RTE180	S02-010500008	18268	180650	175	505	758	513	270	150	124	4"

■ Various special specification of the drive shaft, drive wheel and reaction arm can be customized. In order to select the correct hydraulic wrench model, please contact Loquen sales engineer.

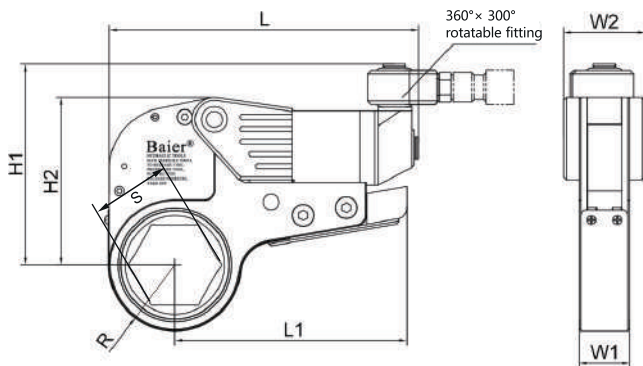
RTI Series Coaxial square drive hydraulic torque wrench



- Integrated body, shell with ultra-high strength and wear resistance, with an accuracy of $\pm 3\%$.
- Coaxial double-layer spline drive shaft, the front reaction force arm is combined with the drive shaft along the bolt axis, which can rotate 360 degrees. The force and reaction force are on the
- Synchronize the fastening button to ensure synchronous tightening of bolts and quick release of the check valve, making it easy to remove the tools from the working position



Model	Torque (Nm)		Weight (kg)	Dimensions (mm)						Imperial (in)
	Min.	Max.		R	L	H1	H2	H3	H4	
RTI03	428	4251	3.5	39	166	120	172	74	167	1"
RTI05	725	7256	7	48	187	150	189	86	192	1.5"
RTI08	1057	10452	10	52	224	168	213	98	178	1.5"
RTI10	1603	16018	14	60	252	180	236	110	198	1.5"
RTI20	2456	24253	22	66	296	230	261	128	260	2.5"
RTI50	6257	62505	56	100	414	283	356	178	356	2.5"

RTB Series Hollow Hydraulic Torque Wrench


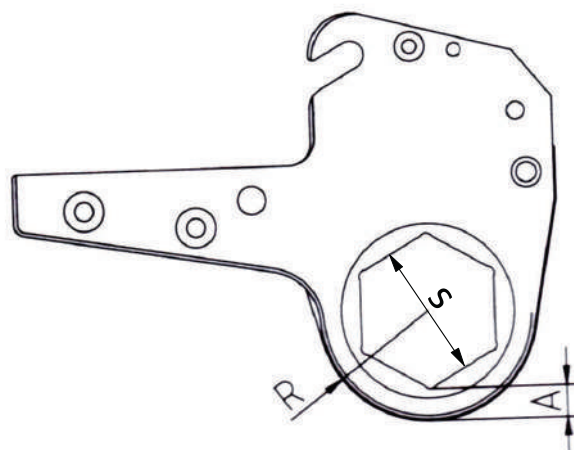
- Thin design, made of high-strength Al-Ti alloy
 - Integrated head made of a ultra-high strength metal to comprehensively improve the strength and service life
 - 360°× 300° rotatable oil pipe fitting, closest to the oil pipe-free design, without space limitation
 - One power head can be used with multiple working heads for a wide working range
 - Fully inclusive design of the working head, extendable metric and imperial hexagonal inserts and sleeves for optimal safety
 - Ultra-light, ultra-thin, high torque, suitable for various "highly difficult" spaces
 - Precision ratchet, precision up to $\pm 3\%$
- Extension counter acting force arms can be customized



Model	Order Number	Torque (Nm)		Bolt Range S (mm)	Weight (kg)	Dimensions (mm)						
		Min.	Max.			L	H1	H2	W1	W2	A	R
RTB02	S02-010200047	244	2584	19-60	2.2	160	133	102	32	50	19.8-12.2	30.8-46.8
RTB05	S02-010200035	489	5392	41-85	4.9	213	183	137	41	66	18.6-13.9	42.3-63
RTB10	S02-010200058	1084	11568	50-110	9.6	267	213	170	53	83	21.9-17.5	50.8-81
RTB18	S02-010200072	1724	17926	85-115	16.5	321	246	203	64	99	19.4-18.9	68.5-85.3
RTB24	S02-010200080	2247	23022	95-135	19.5	362	278	230	73	110	23.7-20.9	78.5-98.8
RTB42	S02-010200090	3768	39685	100-165	31.0	427	312	272	83	132	32.3-26.7	90-122

- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump
- If you need a hydraulic wrench of special specifications, please contact Loquen sales engineer

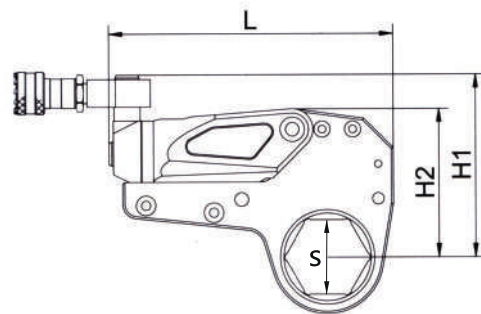
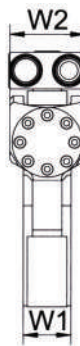
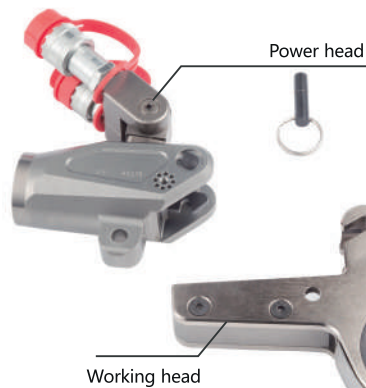
Model	Order Number of Working Head	Dimensions of working head		
		A/F S (mm)	R (mm)	A (mm)
RTB02 order number of power head S02-010200047	S02-010200048	19	30.8	19.8
	S02-010200049	22	30.8	18.1
	S02-010200050	27	30.8	15.2
	S02-010200051	30	30.8	13.5
	S02-010200052	36	33.8	13.0
	S02-010200053	41	38.3	14.6
	S02-010200054	46	38.3	11.7
	S02-010200055	50	41.3	12.4
	S02-010200056	55	43.8	12.0
	S02-010200057	60	46.8	12.2
RTB05 order number of power head S02-010200035	S02-010200046	41	42.3	18.6
	S02-010200036	46	42.3	15.7
	S02-010200037	50	43.5	14.6
	S02-010200038	55	46.8	15.0
	S02-010200044	60	48.8	14.2
	S02-010200045	65	53.8	16.3
	S02-010200043	70	54.5	14.1
	S02-010200039	75	57	13.7
	S02-010200040	80	60	13.8
	S02-010200041	85	63	13.9
RTB10 order number of power head S02-010200058	S02-010200059	50	50.8	21.9
	S02-010200060	55	50.8	19.0
	S02-010200061	60	56	21.4
	S02-010200062	65	56	18.5
	S02-010200063	70	58.5	18.1
	S02-010200064	75	61.5	18.2
	S02-010200065	80	63	16.8
	S02-010200066	85	66.5	17.4
	S02-010200067	90	68.8	16.8
	S02-010200068	95	78	23.2
	S02-010200069	100	78	20.3
	S02-010200070	105	78	17.4
	S02-010200071	110	81	17.5
RTB18 order number of power head S02-010200072	S02-010200073	85	68.5	19.4
	S02-010200074	90	72	20.0
	S02-010200075	95	73.5	18.7
	S02-010200076	100	79.5	21.8
	S02-010200077	105	79.5	18.9
	S02-010200078	110	85.3	21.8
	S02-010200079	115	85.3	18.9



Model	Order Number of Working Head	Dimensions of working head		
		A/F S (mm)	R (mm)	A (mm)
RTB24 order number of power head S02-010200080	S02-010200081	95	78.5	23.7
	S02-010200082	100	84.5	26.8
	S02-010200084	110	84.5	21.0
	S02-010200085	115	87.5	21.1
	S02-010200086	120	93.5	24.2
	S02-010200087	125	93.5	21.3
	S02-010200088	130	98.8	23.7
	S02-010200089	135	98.8	20.9
	S02-010200092	100	90	32.3
	S02-010200093	105	90	29.4
RTB42 order number of power head S02-010200090	S02-010200094	110	96	32.5
	S02-010200095	115	96	29.6
	S02-010200096	130	105	29.9
	S02-010200097	135	105	27.1
	S02-010200098	145	110	26.3
	S02-010200099	155	115.8	26.3
	S02-010200100	165	122	26.7



- Please contact Loquen sales engineer to confirm the size of the reducing sleeve
- Determine the torque based on the size of the bolt and nut
- The heavy-duty sleeve is an additional option
- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump

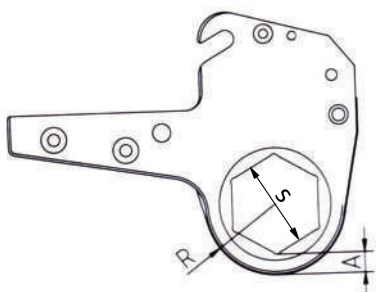
RTF Series Ultra-thin Hollow Hydraulic Torque Wrench


- Integrated body, made of Al-Ti alloy, high strength and high toughness
- New anti-loosening fitting to ensure the smooth oil circuit
- Maximum operating pressure 70Mpa, precision up to $\pm 3\%$
- $360^\circ \times 180^\circ$ rotatable oil pipe fitting is available, without space limitation
- Direct action on the nut, more accurate torque, more light
- Integrated elongated design, longer force arm, improved reliability
- Extension counter acting force arms can be customized



Model	Order Number	Torque (Nm)		Bolt Range S (mm)	Weight (kg)	Dimensions (mm)						
		Min.	Max.			L	H1	H2	W1	W2	A	R
RTF02	S02-010600018	232	2418	19-60	2.7	196	129	105	32	51	10-16	27-46
RTF04	S02-010600028	585	6476	34-80	6.6	246	188	146	42	66	14-16	36-61
RTF08	S02-010600025	1094	11774	41-105	11.6	302	218	179	53	83	17-22	46-78
RTF14	S02-010600041	1852	18521	50-117	17.2	362	239	203	64	99	19-31	60-87
RTF30	S02-010600081	4188	44593	85-175	41.5	443	318	286	85	131	27-36	78-128

- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump
- If you need a hydraulic wrench of special specifications, please contact Loquen sales engineer



Model	Order Number of Working Head	Dimensions of working head		
		A/F S (mm)	R (mm)	A (mm)
RTF02 order number of power head S02-010600018	S02-010600059	19	27	16
	S02-010600060	22	27	14
	S02-010600061	27	27	11
	S02-010600022	30	29	12
	S02-010600062	32	29	11
	S02-010600063	34	31	11
	S02-010600023	36	31	10
	S02-010600017	41	34	10
	S02-010600016	46	37	10
	S02-010600024	50	40	11
	S02-010600019	55	43	11
	S02-010600050	60	46	11
	S02-010600064	34	36	16
	S02-010600065	36	36	15
RTF04 order number of power head S02-010600028	S02-010600066	41	39	15
	S02-010600027	46	42	15
	S02-010600043	50	44	15
	S02-010600020	55	46	14
	S02-010600021	60	50	15
	S02-010600014	65	53	15
	S02-010600013	70	56	15
	S02-010600034	75	59	15
	S02-010600036	80	61	15
	S02-010600101	41	46	22
RTF08 order number of power head S02-010600025	S02-010600102	46	46	19
	S02-010600103	50	46	17
	S02-010600032	55	50	18
	S02-010600033	60	52	17
	S02-010600053	65	55	17
	S02-010600047	70	58	17
	S02-010600031	75	60	17
	S02-010600026	80	63	16
	S02-010600046	85	66	16
	S02-010600051	90	69	17
	S02-010600035	95	71	16
	S02-010600055	100	75	17
	S02-010600052	105	78	17

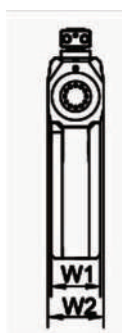
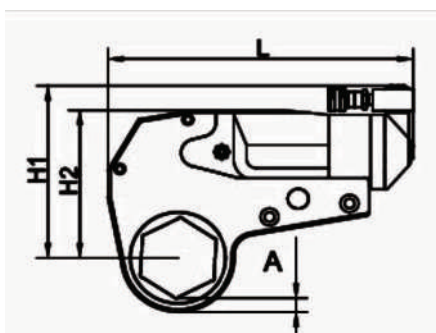
Model	Order Number of Working Head	Dimensions of working head		
		A/F S (mm)	R (mm)	A (mm)
RTF14 order number of power head S02-010600041	S02-010600067	50	60	31
	S02-010600068	55	60	28
	S02-010600069	60	60	25
	S02-010600070	65	60	22
	S02-010600071	70	60	19
	S02-010600072	75	63	19
	S02-010600073	80	66	19
	S02-010600074	85	69	19
	S02-010600075	90	72	20
	S02-010600076	95	74	19
	S02-010600077	100	77	19
	S02-010600042	105	80	19
	S02-010600078	110	83	19
	S02-010600079	115	87	20
	S02-010600080	117	87	19
RTF30 order number of power head S02-010600081	S02-010600082	85	78	28
	S02-010600083	90	78	28
	S02-010600084	95	83	28
	S02-010600085	100	83	25
	S02-010600086	105	89	28
	S02-010600087	110	89	25
	S02-010600088	115	95	28
	S02-010600104	117	95	27
	S02-010600089	120	95	25
	S02-010600090	125	101	29
	S02-010600091	130	101	26
	S02-010600092	135	104	26
	S02-010600093	140	110	29
	S02-010600094	145	110	26
	S02-010600095	150	116	29
	S02-010600096	155	116	26
	S02-010600097	160	128	36
	S02-010600098	165	128	33
	S02-010600099	170	128	30
	S02-010600100	175	128	27



- Please contact Loquen sales engineer to confirm the size of the reducing sleeve
- Determine the torque based on the size of the bolt and nut
- The heavy-duty sleeve is an additional option
- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump

RTH Series Hollow Flat Hydraulic Torque Wrench

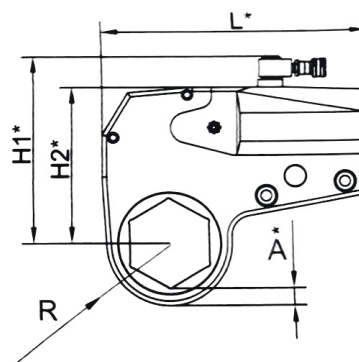
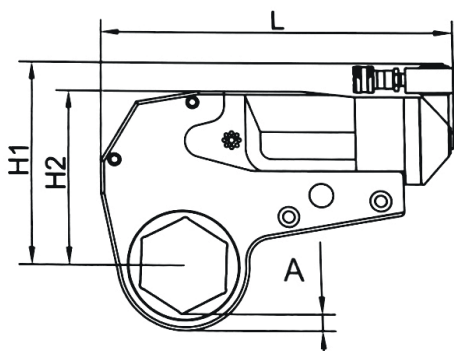

- Directly acting on the nut for more precise and reliable torque
- Accuracy reaches $\pm 3\%$,
- Ultra thin design, suitable for narrow spaces
- The power head and working head are easy to disassemble, effectively improving work efficiency
- One power head can be equipped with multiple working heads, with a wide range of adaptability
- Aluminum titanium alloy material, lightweight body, capable of high-intensity work



Model	Torque (Nm)		Bolt Range S (mm)	Weight (kg)	Dimensions (mm)					
	Min.	Max.			L	H1	H2	W1	W2	A
RTH03	267	2602	19-46	2.9	193	125	97	32	51	10-15
	304	3013	50-60		193	136	108	32	51	10-11
RTH05	531	5386	27-65	5.1	250	158	125	41	64	11-19
	604	6015	70-80		250	169	136	41	64	11.5-12
RTH12	1152	11725	50-80	10.5	310	189	157	52	78	15-15.2
	1430	14328	85-105		310	214	182	52	78	16-22
RTH20	2124	21243	70-100	18.9	378	223	191	64	97	8-21
	2315	23266	105-115		378	236	204	64	97	18-24
RTH40	4380	43827	80-117	46.2	405	291	242	83	93	25-31
	4853	48427	120-175		425	309	260	83	93	25-34

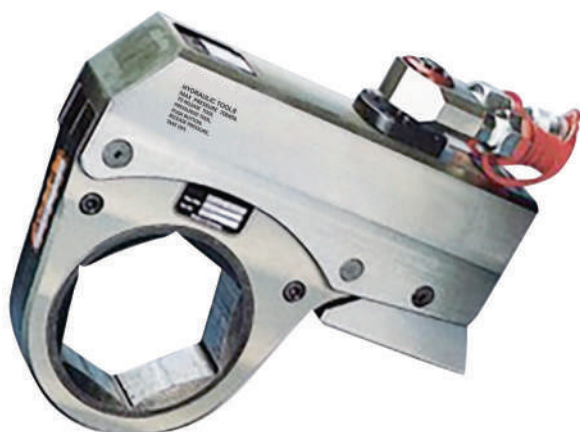
- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump
- If you need a hydraulic wrench of special specifications, please contact Loquen sales engineer

RTH Series Hollow Flat Hydraulic Torque Wrench

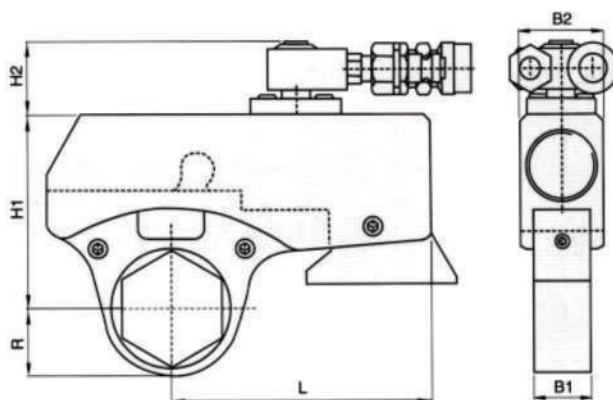


RTH03				RTH05				RTH12				RTH20				RTH40			
Model	R	A	Torque (Nm) Max.	Model	R	A	Torque (Nm) Max.	Model	R	A	Torque (Nm) Max.	Model	R	A	Torque (Nm) Max.	Model	R	A	Torque (Nm) Max.
RTH03-19	26	15	2602	RTH05-27	36	19	5386	RTH12-50	44	15	11725	RTH20-70	59	18	21243	RTH40-80	72	25	43827
RTH03-22	26	14	2602	RTH05-30	35	17	5386	RTH12-55	47	15	11725	RTH20-75	62	18	21243	RTH40-85	78	28	43827
RTH03-27	26	11	2602	RTH05-32	35	16	5386	RTH12-60	50	15	11725	RTH20-80	65	18	21243	RTH40-90	78	25	43827
RTH03-30	28	11	2602	RTH05-34	35	16	5386	RTH12-65	53	15	11725	RTH20-85	68	21	21243	RTH40-95	84	28	43827
RTH03-32	28	10	2602	RTH05-36	35	14	5386	RTH12-70	56	15	11725	RTH20-90	71	18	21243	RTH40-100	84	26	43827
RTH03-34	31	11	2328	RTH05-41	35	11	5386	RTH12-75	58	15	11725	RTH20-95	77	21	21243	RTH40-105	90	28	43827
RTH03-36	31	10	2602	RTH05-46	37	11	5858	RTH12-80	61	15	11725	RTH20-100	77	18	21243	RTH40-110	94	31	43827
RTH03-41	34	10	2602	RTH05-50	41	12	5386	RTH12-85	66	16	14328	RTH20-105	79	18	23266	RTH40-115	94	28	43827
RTH03-46	37	10	2602	RTH05-55	44	13	5386	RTH12-90	69	16	14328	RTH20-110	87	24	23266	RTH40-117	94	28	43827
RTH03-50	40	11	3013	RTH05-60	47	12	5386	RTH12-95	71	16	14328	RTH20-115	87	21	23266	RTH40-120	101	31	48427
RTH03-55	42	11	3013	RTH05-66	50	12	5386	RTH12-100	77	22	14328					RTH40-125	101	28	48427
RTH03-60	50	10	3013	RTH05-70	52	12	6015	RTH12-105	77	19	14328					RTH40-130	101	25	48427
				RTH05-75	56	12	6015									RTH40-135	105	26	48427
				RTH05-80	58	12	6015									RTH40-140	110	29	48427
																RTH40-145	110	26	48427
																RTH40-150	115	29	48427
																RTH40-155	115	26	48427
																RTH40-160	121	29	48427
																RTH40-165	121	26	48427
																RTH40-170	128	30	48427
																RTH40-175	128	27	48427

- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump
- If you need a hydraulic wrench of special specifications, please contact Loquen sales engineer

RTD Series Hollow Flat Hydraulic Torque Wrench


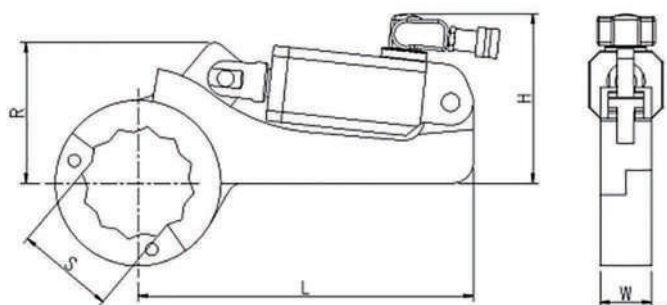
- Adopting ultra-high strength light metal and thin design
- Can rotate the hose joint 360°, suitable for compact occasions and convenient positioning
- Scalable metric and imperial hexagonal connectors and sleeves, allowing for the simultaneous use of multiple connectors on one power head
- Card type, interchangeable plug-in, no special tools required, torque repeatability accuracy up to $\pm 3\%$
- The strength design of the wrench is sufficient, with an overall reaction arm and fewer moving parts, making it durable and reliable
- Can be configured with a fully automatic induction control device to achieve fully automatic continuous unlocking
- Customizable extended reaction arm



Model	Torque (Nm)		Bolt Range S (mm)	Weight (kg)	Dimensions (mm)					
	Min.	Max.			L	H1	H2	B1	B2	R
RTD03	310	3029	30-50	2.5	135	91/103	38	28	40	28-48
RTD05	580	5760	40-70	4.1	156	115/130	38	35	50	34-59
RTD10	1045	10350	55-90	5.5	200	141/156	38	47	65	55-90
RTD20	2026	20130	80-130	13.6	260	182/212	38	56	82	62-96
RTD40	4022	39600	90-155	21	340	210/248	38	66	98	72-110

- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump
- If you need a hydraulic wrench of special specifications, please contact Loquen sales engineer

RTN Series Open End Hydraulic Torque Wrench



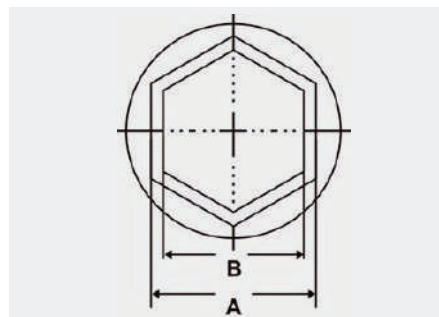
- Solved the working condition where the through type nut cannot be pre tightened
- Provide a safe and reliable controllable bolt connection solution with a small head radius and decomposability, solving the problem of no axial space between bolts and pipelines
- Pin axis combination, easy to disassemble/assemble
- Made of ultra-high strength alloy steel, it improves durability and reduces the occurrence of faults
- After each working cycle of the wrench, the pump should be run in the return direction, the wrench should be removed, and repositioned. There is no stop-function for this tool.

Model	Torque (Nm)		Weight (kg)	Dimensions (mm)				
	Min.	Max.		L	H	W	R	S
RTN04	525	5243	8.5	300	160	45	130	50-85
RTN08	1160	11576	10.7	325	163	50	136	85-115
RTN18	1856	18543	18.6	350	211	55	162	90-135
RTN25	2734	27237	22.5	366	225	60	188	95-145
RTN40	4313	43310	31	410	254	75	235	135-200
RTN50	5176	51823	65.5	490	320	95	260	155-230

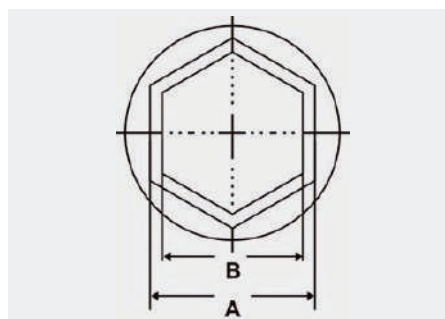
- In order that the product operates in the optimal condition, please refer to the selection table of the matching wrench pump
- If you need a hydraulic wrench of special specifications, please contact Loquen sales engineer



Hollow wrench special reducing sleeve



Wrench model	Working head model	A/F Size	Specification and model of variable diameter sleeve							
			model	A/B(mm)	model	A/B(mm)	model	A/B(mm)	model	A/B(mm)
RTF02	RTF02-S32	S32	02K3227	32/27	02K3224	32/24				
	RTF02-S36	S36	02K3630	36/30	02K3627	36/27	02K3624	36/24		
	RTF02-S41	S41	02K4132	41/32	02K4130	41/30	02K4127	41/27		
	RTF02-S46	S46	02K4636	46/36	02K4632	46/32	02K4630	46/30		
	RTF02-S50	S50	02K5041	50/41	02K5036	50/36	02K5032	50/32		
	RTF02-S55	S55	02K5546	55/46	02K5541	55/41	02K5536	55/36		
	RTF02-S60	S60	02K6050	60/50	02K6046	60/46	02K6041	60/41		
RTF04	RTF04-S46	S46	04K4636	46/36	04K4632	46/32	04K4630	46/30		
	RTF04-S50	S50	04K5041	50/41	04K5036	50/36	04K5032	50/32		
	RTF04-S55	S55	04K5546	55/46	04K5541	55/41	04K5536	55/36		
	RTF04-S60	S60	04K6050	60/50	04K6046	60/46	04K6041	60/41	04K6036	60/36
	RTF04-S65	S65	04K6555	65/55	04K6550	65/50	04K6546	65/46	04K6541	65/41
	RTF04-S70	S70	04K7060	70/60	04K7055	70/55	04K7050	70/50	04K7046	70/46
	RTF04-S75	S75	04K7565	75/65	04K7560	75/60	04K7555	75/55	04K7550	75/50
	RTF04-S80	S80	04K8070	80/70	04K8065	80/65	04K8060	80/60	04K8055	80/55
RTF08	RTF08-S55	S55	08K5546	55/46	08K5541	55/41	08K5536	55/36		
	RTF08-S60	S60	08K6050	60/50	08K6046	60/46	08K6041	60/41	08K6036	60/36
	RTF08-S65	S65	08K6555	65/55	08K6550	65/50	08K6546	65/46	08K6541	65/41
	RTF08-S70	S70	08K7060	70/60	08K7055	70/55	08K7050	70/50	08K7046	70/46
	RTF08-S75	S75	08K7565	75/65	08K7560	75/60	08K7555	75/55	08K7550	75/50
	RTF08-S80	S80	08K8070	80/70	08K8065	80/65	08K8060	80/60	08K8055	80/55
	RTF08-S85	S85	08K8575	85/75	08K8570	85/70	08K8565	85/65	08K8560	85/60
	RTF08-S90	S90	08K9080	90/80	08K9075	90/75	08K9070	90/70	08K9065	90/65
	RTF08-S95	S95	08K9585	95/85	08K9580	95/80	08K9575	95/75	08K9570	95/70
	RTF08-S100	S100	08K10090	100/90	08K10085	100/85	08K10080	100/80	08K10075	100/75
	RTF08-S105	S105	08K10595	105/95	08K10590	105/90	08K10585	105/85	08K10580	100/75



Hollow wrench special reducing sleeve

Wrench model	Working head model	A/F Size	Specification and model of variable diameter sleeve							
			model	A/B(mm)	model	A/B(mm)	model	A/B(mm)	model	A/B(mm)
RTF14	RTF14-S80	S80	14K8070	80/70	14K8065	80/65	14K8060	80/60		
	RTF14-S85	S85	14K8575	85/75	14K8570	85/70	14K8565	85/65	14K8560	85/60
	RTF14-S90	S90	14K9080	90/80	14K9075	90/75	14K9070	90/70	14K9065	90/65
	RTF14-S95	S95	14K9585	95/85	14K9080	95/80	14K9575	95/75	14K9570	95/70
	RTF14-S100	S100	14K10090	100/90	14K10085	100/85	14K10080	100/80	14K10075	100/75
	RTF14-S105	S105	14K10595	105/95	14K10590	105/90	14K10585	105/85	14K10580	105/80
	RTF14-S110	S110	14K110100	110/100	14K11095	110/95	14K11090	110/90	14K11085	110/85
	RTF14-S115	S115	14K115105	115/105	14K115100	115/100	14K11595	115/95	14K11590	115/90

RTF30	RTF30-S100	S100	30K10090	100/90	30K10085	100/85	30K10080	100/80		
	RTF30-S105	S105	30K10595	105/95	30K10590	105/90	30K10585	105/85	30K10580	105/80
	RTF30-S110	S110	30K110100	110/100	30K11095	110/95	30K11090	110/90	30K11085	110/85
	RTF30-S115	S115	30K115105	115/105	30K115100	115/100	30K11595	115/95	30K11590	115/90
	RTF30-S120	S120	30K120110	120/110	30K120105	120/105	30K120100	120/100	30K12095	120/95
	RTF30-S125	S125	30K125115	125/115	30K125110	125/110	30K125105	125/105	30K125100	125/100
	RTF30-S130	S130	30K130120	130/120	30K130115	130/115	30K130110	130/110	30K130105	130/105
	RTF30-S135	S135	30K135125	135/125	30K135120	135/120	30K135115	135/115	30K135110	135/110
	RTF30-S140	S140	30K140130	140/130	30K140125	140/125	30K140120	140/120	30K140115	140/115
	RTF30-S145	S145	30K145135	145/135	30K145130	145/130	30K145125	145/125	30K145120	145/120
	RTF30-S150	S150	30K150140	150/140	30K150135	150/135	30K150130	150/130	30K150125	150/125
	RTF30-S155	S155	30K155145	155/145	30K155140	155/140	30K155135	155/135	30K155130	155/130
	RTF30-S160	S160	30K160150	160/150	30K160145	160/145	30K160140	160/140	30K160135	160/135
	RTF30-S165	S165	30K165155	165/155	30K165150	165/150	30K165145	165/145	30K165140	165/140
	RTF30-S170	S170	30K170160	170/160	30K170155	170/155	30K170150	170/150	30K170145	170/145
	RTF30-S175	S175	30K175165	175/165	30K175160	175/160	30K175155	175/155	30K175150	175/150



Hydraulic wrench project in a certain oilfield



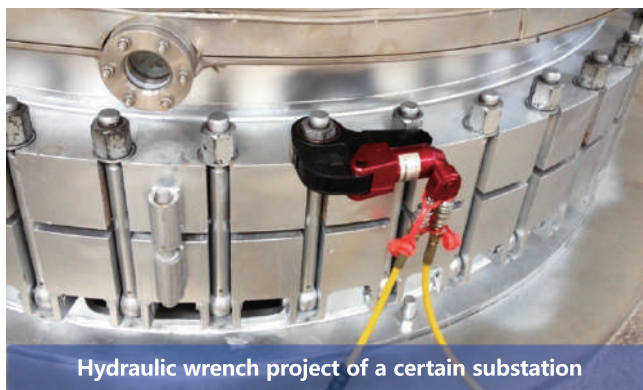
Overhaul of the hydrogenation unit of a local refinery



Overhaul of the hydrogenation unit of a local refinery



Hydraulic wrench project of CNPC Daqing Petrochemical



Hydraulic wrench project of a certain substation



Hydraulic wrench project of a foreign refining and chemical company



Hydraulic wrench project of CNPC Lanzhou Petrochemical

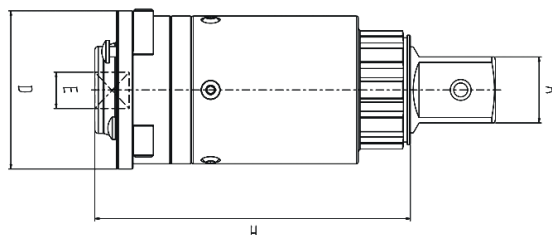


Overhaul of train wheel pairs

MD Series Rugged Reinforced Torque Wrench



- Simplify highly difficult operation and improve safety
- Planetary gear structure, large torque output
- Reversible lock type ratchet, the counter acting force arm can be adjusted by 360° and can be customized
- Made of high-strength alloy, sturdy and durable



Model	Maximum Torque (Nm)	Torque ratio	Square Head		Dimensions (mm)		Weight (kg)
			Input	Output	ΦD	H	
MD01	1200	1:3	1/2"	1"	85	180	3.6
MD02	2200	1:10	1/2"	1"	88	225	4.7
MD03	3200	1:10	1/2"	1"	91	190	5.9
MD04	4200	1:10	3/4"	1 1/2"	91	182	6.4
MD05	5400	1:28	3/4"	1 1/2"	116	217	12
MD10	10000	1:40	3/4"	1 1/2"	122	237	12

BTGK Series Open-ended Interchangeable Torque Wrench

- Error range: ±4%; Precision: Grade 4
- The shell is made of high quality aluminum alloy, and the parts are made of special alloy copper
- High precision, good stability



Model	Order Number	Torque Adjustment	Square Insertion	Overall Dimensions (mm)	Weight (kg)	Division Value(Nm)
BTGK-25	S02-050200005	5-25	9x12	280x28x25	0.4	0.25
BTGK-100	S02-050200009	10-100	9x12	460x45x40	1.2	0.5
BTGK-300	S02-050200010	60-300	14x18	630x45x42	2	1
BTGK-450	S02-050200011	100-450	14x18	680x45x42	2.4	1.5
BTGK-760	S02-050200012	150-760	25x32	820x60x50	4	5
BTGK-1000	S02-050200013	200-1000	25x32	860x60x50	4.2	5

BTG Series Preset Torque Wrench

- Precision: Grade 4
- Error range: $\pm 4\%$
- The shell is made of high quality alloy steel, and the parts are made of special alloy steel
- Two-way ratchet head, easy to operate, high precision and good stability



Introduction to use and purposes

1. Preset and determine the torque according to the torque value required for the working
2. To predict the torque, pull the hexagonal lever at the end of the wrench and adjust the engraved line to the desired torque value. When the adjustment is done, insert the hexagonal key back into the original position
3. Fit a suitable sleeve over the square tenon of the wrench and over the fastener. Apply a force slowly onto the handle and withdraw the force when you hear a "click" (when the preset torque value has been reached)
4. To apply a larger torque value, you can add an extension sleeve bar, in order to save effort. When you hear a "click", you can withdraw the force, but be sure to gently push the wrench in the opposite direction so that the wrench parts can be reset for later use.
5. When using the torque wrench for the first time or not used for a long time, you need to operate the wrench 5-6 times with a medium and high torque first to lubricate the wrench components in a special way. At the end of use, please return the torque value of the wrench to the minimum value.

Model	Order Number	Torque Range (Nm)	Square Tenon size (mm)	Overall Dimensions (mm)	Weight (kg)	Division value (Nm)
BTG100	S02-050400001	20-100	12.7x12.7	460x45x40	1.25	1
BTG300	S02-050400002	60-300	12.7x12.7	630x45x42	2.1	7.5
BTG450	S02-050400003	150-450	19x19	680x45x42	2.5	10
BTG500	S02-050400004	100-500	19x19	820x60x50	4	10
BTG760	S02-050400005	280-760	19x19	820x60x50	4.2	25
BTG1000	S02-050400018	200-1000	19x19	860x60x50	4.5	25
BTG2000	S02-050400006	750-2000	25.4x25.4	1700x70x75	10.5	50
BTG3000	S02-050400007	1000-3000	25.4x25.4	2100x90x85	22	50
BTG6000	S02-050400008	3000-6000	38x38	2800x120x100	50	100

■ Precautions

1. During operation, do not apply a too much force, do not continue to apply a force after the preset torque is reached, prohibit using beyond the range, and remove the force in time when you hear a "click"
2. The wrench should be handled with care, not used for knocking as the hammer, or not disassembled at will, or the precision will be reduced
3. The wrench should be stored in a dry place to avoid rusting over time
4. It should be regularly calibrated
5. For large-size torque wrenches, use a extension bar. Properly connect the bar with the wrench handle before operation.

MDS Series Digital Display Torque Wrench

- Different from the general torque wrench, the digital display torque wrench has powerful operating functions, including torque setting
- Unit setting, mode setting and value storage
- High precision, good stability
- Easy to operate, lower requirement for the operator thanks to the digital display
- Value clearing, value output and the function calibration by the user
- Suitable for bolt tightening and control in the automotive industry, machinery industry, etc.

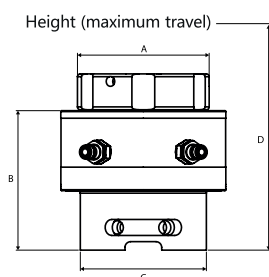


Model	With communication function	MDS-10R	MDS-30R	MDS-30R	MDS-60R	MDS-85R	MDS-135R	MDS-135R	MDS-200R	MDS-340R	MDS-500R	MDS-850R	
Model	Without communication function	MDS-10	MDS-30	MDS-30	MDS-60	MDS-85	MDS-135	MDS-135	MDS-200	MDS-340	MDS-500	MDS-850	
Maximum operating range (Nm)/n		10N.m/ 7.37ft.lb/ 88.50in.lb/ 101.97 kgf.cm	30N.m/ 22.12ft.lb/ 265.5in.lb/ 305.91 kgf.cm	30N.m/ 22.12ft.lb/ 265.5in.lb/ 305.91 kgf.cm	60N.m/ 44.25ft.lb/ 531.04in.lb/ 611.82 kgf.cm	85N.m/ 62.69ft.lb/ 752.31in.lb/ 866.75 kgf.cm	135N.m/ 99.57ft.lb/ 1195in.lb/ 1376.61 kgf.cm	135N.m/ 99.57ft.lb/ 1195in.lb/ 1376.61 kgf.cm	200N.m/ 147.5ft.lb/ 1770in.lb/ 2039.43 kgf.cm	340N.m/ 250ft.lb/ 3009in.lb/ 3467.03 kgf.cm	500N.m/ 4424ft.lb/ 368.7in.lb/ 5098.58 kgf.cm	850N.m/ 7521ft.lb/ 626.8in.lb/ 8667.58 kgf.cm	
Connector		1/4		3/8				1/2			3/4		
Setting range of buzzer (Nm)		0.5-10	1.5-30	1.5-30	2-60	4.25-85	6.75-135	6.75-135	10-200	17-340	25-500	42.5-850	
Length		390		420				535		655			
Precision		Clockwise: ±2% Counterclockwise: ±2.5%										Clockwise: ±2.5% Counterclockwise: ±5.5%	
Material storage capacity		100											
Operating mode		Peak hold (P)/real time mode (T)											
Unit		N.m/ft.lb/in.lb/kgf.cm											
Form of ratchet head		Reversible ratchet head											
Number of teeth of ratchet head		36										48	
Number of buttons		5											
Battery		2 15V AA batteries											
Operating temperature		10℃—60℃											
Storage temperature		-20℃—70℃											
Humidity		Up to 90%, without condensation											
Drop test height		1m											
Vibration test conditions		10G											
Life test		10000次											

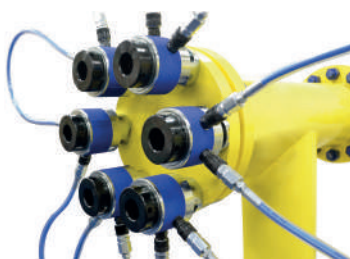
■ Precautions

- The digital display torque wrench is a precision torque measuring tool. During operation, do not apply a too much force, do not continue to apply a force after the maximum value is reached, prohibit using beyond the range. (105% of the maximum design value)
- Do not shake the wrench violently or drop the wrench onto the ground.
- Do not expose the wrench to high temperature, high frequency or direct sunlight; do not put the wrench near water; do not put the wrench near magnetic objects

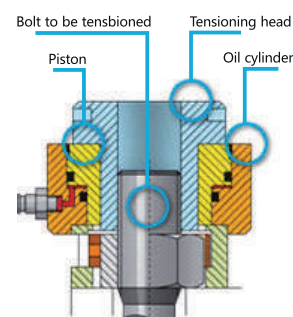
ST Series Bolt Tensioner



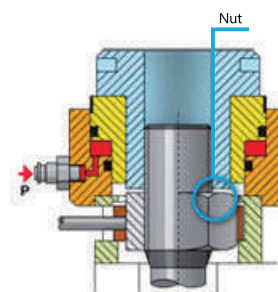
- Innovative double-end port design can ensure that when working at the same time, multiple tensioners can be connected in series or parallel, reducing the number of oil pipes and saving the cost
- Unique frosted anti-slip design improves the gripping performance of the tool surface
- One size is suitable for many sizes of bolts
- The industry's first tensioner allows manual tightening of the threaded sleeve without using any tool
- Suitable for M24-M100 (or 3/4"-4") extra-large galvanized bolts with the piston travel of 10mm
- Bolt protrusion above bolt = 1 x bolt diameter
- Maximum tool pressure 21,750 psi (1,500 bar)



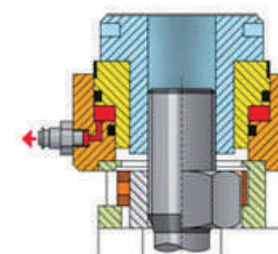
Operating principle of the hydraulic bolt tensioner



Initial: Screw the BR-ST hydraulic bolt tensioner into the bolt. When the hydraulic pressure is increased, the piston in the oil cylinder starts to rise, pushing the tensioning head upward and starts to tension the bolt



Elongation and compression: When the hydraulic pressure increases, the axial tensile force will elongate the bolt, and at this time the nut rises due to the elongation of the bolt and detaches from the surface of contact with the flange. According to the principle of elastic deformation, the opposite pretightening force of the same size will compress the flange. When the required pretightening force is reached, stop compressing



Tighten the bolt: When the required pretightening force is reached, you can tighten the nut with a shift lever. At this point, the axial pretightening force is retained in the bolt. After pressure relief, remove the hydraulic bolt tensioner

Model	Order Number	Bolt Size	Maximum Pulling Force	Hydraulic Area	Model Order Number				Weight
		Metric	KN	mm ²	A	B	C	D	Kg
ST1	C03-010900001	M24	280	1867	87	117	68	178	2.7
	C03-010900002	M27	280	1867	87	120	72	181	2.7
ST2	C03-010900003	M24	450	3001	103	117	75	175	4.1
	C03-010900004	M27	450	3001	103	117	75	178	4.1
	C03-010900005	M30	450	3001	103	120	80	184	4.1
	C03-010900006	M33	450	3001	103	123	84	190	4.1
	C03-010900007	M36	450	3001	103	126	89	196	4.1
ST3	C03-010900008	M33	660	4401	118	123	88	192	5.4
	C03-010900009	M36	660	4401	118	126	96	198	5.4
	C03-010900010	M39	660	4401	118	130	96	204	5.4
	C03-010900011	M42	660	4401	118	133	105	211	5.4
ST4	C03-010900012	M39	1000	6668	140.5	132	112	212	8.4
	C03-010900013	M42	1000	6668	140.5	135	114	218	8.4
	C03-010900014	M45	1000	6668	140.5	139	118	225	8.4
	C03-010900015	M48	1000	6668	140.5	142	114	225	8.4
	C03-010900016	M48	1000	6668	140.5	145	120	231	8.4
ST5	C03-010900017	M52	1500	10003	175.5	148	120	248	13.8
	C03-010900018	M56	1500	10003	175.5	154	138	258	13.8
	C03-010900019	M60	1500	10003	175.5	161	138	262	13.8
	C03-010900020	M64	1500	10003	175.5	161	153	273	13.8
	C03-010900021	M68	1500	10003	175.5	167	156	283	13.8
ST6	C03-010900022	M72	2500	16671	219	167	157	297	23
	C03-010900023	M76	2500	16671	219	171	182	308	23
	C03-010900024	M80	2500	16671	219	180	190	312	23
	C03-010900025	M85	2500	16671	219	180	190	323	23
	C03-010900026	M90	2500	16671	219	186	205	334	23
ST7	C03-010900027	M90	3200	21339	252	186	200	341	32
	C03-010900028	M95	3200	21339	252	186	200	346	32
	C03-010900029	M100	3200	21339	252	192	200	356	32

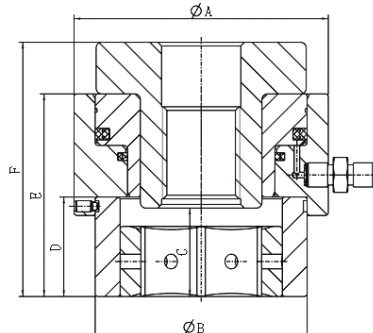
■ If you need to order a tensioner of special specifications, please contact Loquen sales engineer

TD Series Tensioner

- Reduce damage to seals due to over-stroke caused by incorrect operation
- One size is suitable for many sizes of bolts
- Can be used with a hand pump or electric pump. Multiple tensioners can be used at the same time

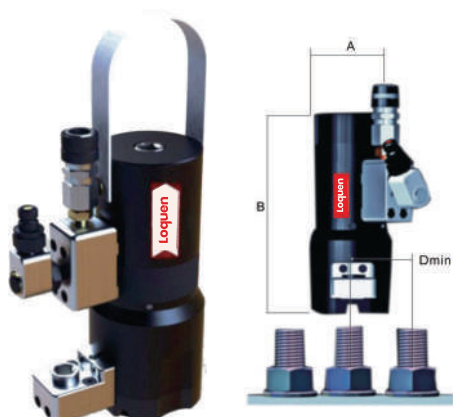
Applicable bolt range: M20-M115

Maximum operating pressure: 1500 bar



Model		Order Number	Bolt Size (mm)	Maximum Tensile Force (kN)	Dimensions (mm)						Weight (kg)
					A	B	C	D	E	F	
TD02	TD020	C03-010400026	M20	155	71	50	25	25	80	100	1.3
	TD022	C03-010400027	M22	155	71	50	27	27	80	100	1.3
TD1	TD124	C03-010400028	M24	282	85	66	30	30	80	100	3.5
TD2	TD224	C03-010400001	M24	486	109	70	30	30	80	100	5.5
	TD227	C03-010400029	M27	486	109	70	35	35	90	115	5.5
	TD230	C03-010400030	M30	486	109	75	35	35	90	115	5.5
	TD233	C03-010400031	M33	486	109	82	38	38	95	120	5.5
	TD236	C03-010400032	M36	486	109	85	42	42	100	125	5.5
TD3	TD333	C03-010400033	M33	814	132	85	38	38	100	120	7
	TD336	C03-010400010	M36	814	132	85	42	42	100	125	7
	TD339	C03-010400020	M39	814	132	98	45	45	110	130	7
	TD342	C03-010400005	M42	814	132	105	48	48	115	138	7
TD4	TD439	C03-010400035	M39	989	150	98	48	48	115	130	10
	TD442	C03-010400007	M42	989	150	105	48	48	115	138	10
	TD445	C03-010400036	M45	989	150	112	50	50	120	145	10
	TD448	C03-010400037	M48	989	150	125	55	55	120	145	10
TD5	TD552	C03-010400038	M52	1413	174	130	55	55	125	150	15
	TD556	C03-010400039	M56	1413	174	135	60	60	125	150	15
TD6	TD656	C03-010400040	M56	1649	198	135	60	60	125	150	17
	TD660	C03-010400018	M60	1649	198	145	65	65	135	175	17
	TD664	C03-010400006	M64	1649	198	155	70	70	135	180	17
	TD668	C03-010400041	M68	1649	198	170	72	72	140	185	17
TD7	TD772	C03-010400002	M72	2131	222	180	75	75	145	195	26
	TD776	C03-010400003	M76	2131	222	180	80	80	145	195	26
TD8	TD876	C03-010400042	M76	2544	252	180	80	80	190	215	29.5
	TD880	C03-010400008	M80	2544	252	190	85	85	190	220	29.5
	TD885	C03-010400043	M85	2544	252	193	90	90	190	220	29.5
	TD890	C03-010400044	M90	2544	252	210	95	95	200	230	29.5
TD9	TD995	C03-010400045	M95	3101	282	220	100	100	200	235	38
	TD9100	C03-010400046	M100	3101	285	235	105	105	205	245	38
TD10	TD10105	C03-010400047	M105	3793	318	240	110	110	220	260	49
	TD10110	C03-010400048	M110	3793	318	250	115	115	235	275	49
	TD10115	C03-010400049	M115	3793	318	260	120	120	140	280	49

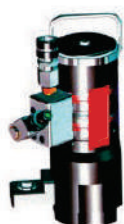
■ If you need to order a tensioner of special specifications, please contact Loquen sales engineer

WTB Series Double-stage Hydraulic Tensioner


- The new WTB series double-stage hydraulic bolt tensioner is specially designed for various special requirements such as limited space, high load, long life and high speed
- All WTB tensioners comply with ENISO898-1:1999 and the load requirements for Class 10.9 bolts specified in ASTM A490M

Model	Order Number	Bolt Diameter (mm)	Screw Protrusion Length (mm)		Maximum Stroke (mm)	Maximum Load (kN)	A (mm)	B (mm)	D (mm)	Weight (kg)
			Min.	Max.						
WTB30	C03-010300015	M30	62	69	8	465	72	205	64	5.8
WTB33	C03-010300016	M33	66	73	10	575	79	217.5	71.5	7.2
WTB36	C03-010300006	M36	75	82	10	678	84.5	229.5	75	8.1
WTB39	C03-010300017	M39	88	98	10	810	92	263	83	10.4
WTB42	C03-010300018	M42	83	91	10	929	97	262.5	88	11.8
WTB45	C03-010300019	M45	87	96	10	1079	105	271	95	14.0
WTB48	C03-010300010	M48	93	102	10	1221	111	281	101	16.0

■ The above double-stage tensioners are designed for a maximum operating pressure of 1350 bar


High quality hydraulic seals

The tensioner features high quality machined polyurethane seals and high strength anti-extrusion seals that are durable enough to withstand thousands of pressure cycles. It is quick and easy to replace the seals.


High strength, long life tensioning head

The tensioning head, located in the center of the WTB tensioner, is made of high quality aeronautical grade material. The tensioning head is delicately designed for a long service life.


Spring retraction device

To increase the tensioning speed, the WTB tensioner is provided with a spring that automatically retracts the tensioner to its initial position when the pressure returns to 0 for later secondary tensioning, eliminating the need for manual returning.


Cage nut driver

To improve the tensioning speed, all WTB tensioners are provided with a spring-loaded device that automatically engages the tensioner drive ring with the hexagonal nut, simplifying operation and eliminating the need for aligning the nut with the tensioner.

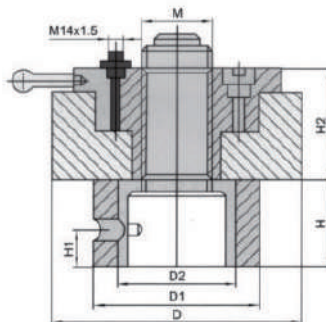

The rotatable joint provides versatility and ease of operation

Due to the limited operating space in the case of most blade bolts, each WTB tensioner is provided with an optional 360° rotatable joint for better connection of multiple tensioners. This 360° rotatable joint allows connection of the hydraulic pipe at the best possible position, so as to leave a good placement space for the tensioner.

TL(R) Series Tensioner



The standard HG/T21573-95 of the Ministry of Chemical Industry implemented

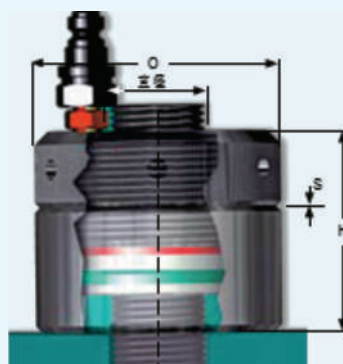


Model	Order Number	Bolt Size (mm)	Cross-sectional Area of Oil Cylinder (mm ²)	Maximum Tensile Force (kN)	Outer Diameter of Oil Cylinder D (mm)	Outer Diameter of Support Ring D1 (mm)		Inner Diameter of Support Ring D2 (mm)		Height of Support Sing H (mm)		Height of Center Hole H (mm)		Minimum Distance Between The Centers of Adjacent Bolts (mm)	
						TL	TR	TL	TR	TL	TR	TL	TR	TL	TR
TL48	C03-010200013	M48 x 4	9424	1300	160	120	110	90	80	80	55	26	24	110	110
TL52	C03-010200016	M52 x 4	9896	1365	165	130	120	100	90	85	60	28	26	115	115
TL56	C03-010200014	M56 x 4	10367	1430	170	135	125	105	95	90	65	32	28	120	120
TL64	C03-010200008	M64 x 4	11996	1655	185	150	135	115	105	105	75	35	32	130	130
TL72	C03-010200017	M72 x 4	13528	1866	200	165	150	130	115	115	85	40	36	150	150
TL80	C03-010200004	M80 x 4	15943	2200	220	180	165	145	130	125	95	44	40	165	165
TL85	C03-010200018	M85 x 4	16493	2276	225	185	170	150	135	135	100	46	43	170	165
TL90	C03-010200003	M90 x 4	17043	2351	230	195	180	160	145	140	105	48	45	180	170
TL100	C03-010200005	M100 x 4	18142	2503	245	220	200	180	160	150	115	55	50	195	180
TL105	C03-010200019	M105 x 4	19242	2655	250	225	205	185	165	160	120	58	52	205	185
TL110	C03-010200020	M110 x 4	20911	2885	260	235	215	195	175	165	125	60	55	215	190
TL115	C03-010200021	M115 x 4	23247	3208	270	240	220	200	180	175	130	65	57	220	200
TL120	C03-010200022	M120 x 4	23876	3294	275	250	230	210	190	180	135	67	60	230	205
TL125	C03-010200023	M125 x 4	25132	3468	285	260	235	220	195	185	140	69	62	240	215
TL130	C03-010200024	M130 x 4	25761	3555	290	270	245	230	205	195	145	74	65	250	220
TL135	C03-010200025	M140 x 4	26389	3641	310	285	260	245	220	205	155	78	70	265	235

BBT Series Hydraulic Nut

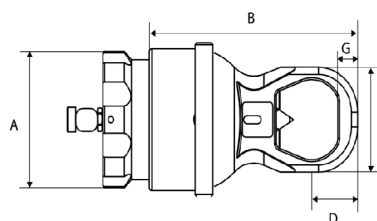
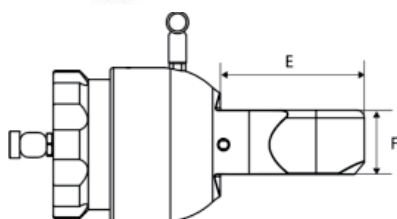


- Suitable for high temperature of 100°C
- Special seals are available for above 100°C
- Protective cap to prevent corrosion
- Spherical washers can be used if the binding part is not at a right angle
- Non-standard processing is available



Model	Order Number	Bolt Diameter		Maximum Load (kN)	O (mm)	H (mm)	Piston Stroke S(mm)
		(inch)	(mm)				
BBT22	C03-010700004	7/8	M22	190	54	48	5
BBT24	C03-010700005	1	M24	205	57	48	5
BBT27	C03-010700006	1 1/8	M27	220	60	48	5
BBT33	C03-010700007	1 1/4	M33	265	67	51	5
BBT36	C03-010700008	1 3/8	M36	325	73	54	6
BBT39	C03-010700023	1 1/2	M39	373	78	56	6
BBT42	C03-010700009	1 5/8	M42	424	83	58	6
BBT45	C03-010700010	1 3/4	M45	445	86	60	6
BBT48	C03-010700011	1 7/8	M48	523	93	70	8
BBT52	C03-010700012	2	M52	629	102	71	8
BBT56	C03-010700013	2 1/4	M56	781	112	75	8
BBT64	C03-010700014	2 1/2	M64	941	124	86	8
BBT68	C03-010700015	2 3/4	M68	1042	134	90	8
BBT72	C03-010700016	3	M72	1246	144	94	10
BBT80	C03-010700017	3 1/4	M80	1607	159	104	10
BBT90	C03-010700018	3 1/2	M90	2027	176	114	10
BBT95	C03-010700019	3 3/4	M95	2160	182	118	10
BBT100	C03-010700002	4	M100	2466	200	124	15
BBT110	C03-010700020	4 1/2	M110	2814	215	136	15
BBT125	C03-010700021	5	M125	3820	244	148	15
BBT140	C03-010700022	5 1/2	M140	4954	272	164	15
BBT150	C03-010700003	6	M150	5655	290	176	15

NS Series Nut Splitter

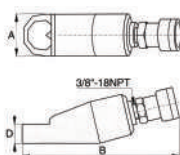


The nut splitter safely and efficiently overcomes the challenge of nut corrosion or getting stuck and eliminates the safety problems related with flame welding. You can pre-set the nut model to be split in the window without damaging the screw

- Replaceable three-edged splitter head design, three times the life of ordinary splitter heads
- Adjustable splitting depth of the splitter head
- The splitter head has a scale to ensure that the bolt is not damaged
- Available in submarine specifications
- A wide range of applications, high reliability, long-term failure-free operation
- Spring-based recovery function, no need for manual operation after splitting by the splitter head, safe and efficient

Model	Order Number	Splitting range (mm)		Overall Dimensions (mm)							Weight (kg)
		Screw Diameter	Across-flats of nut	A	B	C	D	E	F	G	
NS-1	C04-040100001	M20-M27	S30-S41	104	228	76	18	104	41	9	6.7
NS-2	C04-040100002	M20-M33	S30-S50	104	228	90	21	111	41	10	6.9
NS-3	C04-040100003	M30-M39	S46-S60	138	305	102	22	132	58	6	16
NS-4	C04-040100004	M30-M45	S46-S70	138	314	114	23	141	58	6	16
NS-5	C04-040100005	M45-M52	S70-S80	190	406	132	28	189	81	8	42
NS-6	C04-040100006	M45-M56	S70-S85	190	416	145	30	190	81	8	43
NS-7	C04-040100007	M45-M64	S70-S95	190	426	160	32	200	81	7	43
NS-8	C04-040100008	M45-M70	S70-S100	190	437	174	35	204	81	9	44
NS-9	C04-040100009	M76-M80	S110-S115	235	474	189	37	235	111	4	73
NS-10	C04-040100010	M76-M90	S110-S130	235	495	219	41	240	110	3	75

NC Series Nut Splitter



The nut splitter can be widely and efficiently applied in cement mixing, pipeline industry, tank cleaning, petrochemical industry, steel construction, mining and other industries.

- Compact and easy-to-use design
- Unique angular head design
- Hydraulic cylinder for single acting spring return
- Re grindable heavy duty chisel

Model	Order Number	Splitting Range (mm)	Oil Cylinder Output (ton)	Oil Capacity (cm3)	Overall Dimensions (mm)						Weight (kg)
					A	B	C	D	E	H	
NC-1019	C04-020100003	10-19	5	15	40	170	7	19	28	48	1.2
NC-1924	C04-020100005	19-24	10	20	54	191	10	26	40	62	2
NC-2432	C04-020100006	24-32	15	60	64	222	13	29	51	72	3
NC-3241	C04-020100007	32-41	20	80	75	244	17	36	66	88	4.4
NC-4150	C04-020100001	41-50	35	155	94	288	21	45	74	105	8.2
NC-5060	C04-020100002	50-60	50	240	106	318	23	54	90	128	11.8
NC-6075	C04-020100008	60-75	90	492	156	393	26	72	110	181	34.1

■ The nut splitter must be used with a hand pump. Please contact Loquen sales engineer for specific selection.

Sleeve

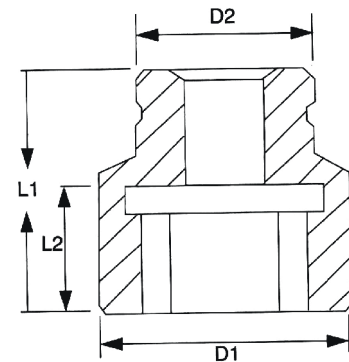
Suitable sockets for 3/4" drive shaft Unit: (mm)

Model	Across-flats of nut	D1	D2	Single cap L1	Order number	Double cap L1	Order number	L2
A19M16D(S)	24	40	40	54	C01-010100002	67	C01-010100020	32
A19M18D(S)	27	42	42	54	C01-010100003	73	C01-010100021	32
A19M20D(S)	30	46	44	54	C01-010100004	75	C01-010100035	33
A19M22D(S)	34	48	44	54	C01-010100006	79	C01-010100036	31
A19M24D(S)	36	53	44	57	C01-010100007	83	C01-010100022	32
A19M27D(S)	41	60	44	58	C01-010100008	89	C01-010100023	33
A19M30D(S)	46	66	44	63	C01-010100009	95	C01-010100010	38
A19M33D(S)	50	71	44	65	C01-010100011	100	C01-010100025	40
A19M36D(S)	55	77	54	70	C01-010100012	103	C01-010100026	45



Suitable sockets for 1" drive shaft Unit:(mm)

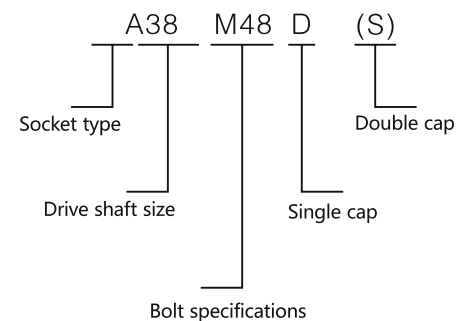
Model	Across-flats of nut	D1	D2	Single cap L1	Order number	Double cap L1	Order number	L2
A25M20D(S)	30	45	45	65	C01-010200004	75	C01-010200021	35
A25M22D(S)	34	47	47	67	C01-010200006	79	C01-010200060	37
A25M24D(S)	36	52	52	69	C01-010200007	83	C01-010200023	39
A25M27D(S)	41	59	52	72	C01-010200008	89	C01-010200024	41
A25M30D(S)	46	65	52	75	C01-010200009	95	C01-010200025	45
A25M33D(S)	50	71	52	77	C01-010200010	100	C01-010200011	47
A25M36D(S)	55	79	52	77	C01-010200012	103	C01-010200026	47
A25M39D(S)	60	84	53	79	C01-010200013	108	C01-010200027	49
A25M42D(S)	65	90	56	83	C01-010200014	114	C01-010200028	53
A25M45D(S)	70	98	61	86	C01-010200015	120	C01-010200029	56
A25M48D(S)	75	104	64	89	C01-010200016	126	C01-010200030	59



Suitable sockets for 1 1/2" drive shaft Unit: (mm)

Model	Across-flats of nut	D1	D2	Single cap L1	Single cap L2	Order number	Double cap L1	Double cap L2	Order number
A38M24D(S)	36	63	69	79	34	C01-010300011	101	56	C01-010300012
A38M27D(S)	41	63	69	87	42	C01-010300013	107	62	
A38M30D(S)	46	69	69	90	45	C01-010300014	113	68	C01-010300015
A38M33D(S)	50	76	76	92	47	C01-010300017	118	73	
A38M36D(S)	55	82	82	92	47	C01-010300016	121	76	C01-010300039
A38M39D(S)	60	90	86	94	49	C01-010300018	126	81	C01-010300040
A38M42D(S)	65	99	86	97	52	C01-010300036	132	87	C01-010300041
A38M45D(S)	70	108	86	100	55	C01-010300019	138	93	
A38M48D(S)	75	116	86	105	58	C01-010300020	144	99	
A38M52D(S)	80	123	88	110	65	C01-010300037	155	110	C01-010300021
A38M56D(S)	85	130	90	114	69	C01-010300034	163	118	C01-010300022
A38M60D(S)	90	138	92	114	69	C01-010300038	169	124	
A38M64D(S)	95	145	94	120	75	C01-010300042	177	132	
A38M68D(S)	100	153	96	124	79	C01-010300025	185	140	
A38M72D(S)	105	160	100	126	81	C01-010300027	191	146	

Description of socket model

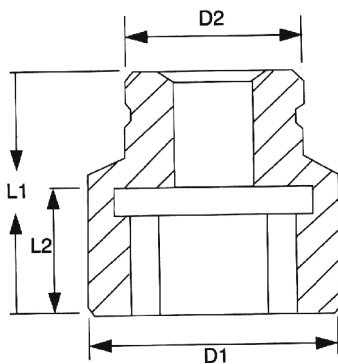


Suitable sockets for 2" drive shaft Unit:(mm)



Model	Across-flats of nut	D1	D2	Single cap L1	Single cap L2	Order number	Double cap L1	Double cap L2	Order number
A51M36D(S)	55	84	84	92	47	C01-010400004	121	76	C01-010400024
A51M39D(S)	60	90	90	94	49	C01-010400005	126	81	C01-010400025
A51M42D(S)	65	99	90	97	52	C01-010400006	132	87	C01-010400007
A51M45D(S)	70	108	95	100	55	C01-010400008	138	93	C01-010400009
A51M48D(S)	75	116	95	103	58	C01-010400011	144	99	C01-010400010
A51M52D(S)	80	123	100	110	65	C01-010400012	155	110	C01-010400030
A51M56D(S)	85	130	100	114	69	C01-010400028	163	118	C01-010400013
A51M60D(S)	90	138	105	116	71	C01-010400014	169	124	C01-010400031
A51M64D(S)	95	145	105	120	75	C01-010400015	177	132	C01-010400026
A51M68D(S)	100	153	110	124	79	C01-010400016	185	140	C01-010400032
A51M72D(S)	105	160	110	126	81	C01-010400017	191	146	C01-010400033
A51M76D(S)	110	168	120	132	87	C01-010400029	199	154	C01-010400034
A51M80D(S)	115	175	130	136	91	C01-010400019	207	162	C01-010400035
A51M85D(S)	120	187	135	142	97	C01-010400020	217	172	C01-010400036
A51M90D(S)	130	196	140	149	104	C01-010400021	227	182	C01-010400037

Suitable sockets for 2 1/2" drive shaft Unit: (mm)



Model	Across-flats of nut	D1	D2	Single cap L1	Single cap L2	Order number	Double cap L1	Double cap L2	Order number
A64M48D(S)	75	116	116	113	58	C01-010500019	153	98	C01-010500020
A64M52D(S)	80	123	120	120	65	C01-010500038	164	109	C01-010500022
A64M56D(S)	85	130	124	124	69	C01-010500024	172	117	C01-010500023
A64M60D(S)	90	138	128	126	71	C01-010500025	178	123	C01-010500026
A64M64D(S)	95	145	132	130	75	C01-010500027	186	131	C01-010500028
A64M68D(S)	100	153	136	134	79	C01-010500029	194	139	C01-010500030
A64M72D(S)	105	160	140	138	83	C01-010500031	200	145	C01-010500044
A64M76D(S)	110	168	144	142	87	C01-010500032	208	153	C01-010500043
A64M80D(S)	115	175	148	146	91	C01-010500033	216	161	C01-010500041
A64M85D(S)	120	182	150	152	97	C01-010500036	227	172	C01-010500003
A64M90D(S)	130	196	152	156	101	C01-010500042	235	180	C01-010500040
A64M100D(S)	145	212	155	162	107	C01-010500004	243	188	C01-010500039
A64M110D(S)	155	228	158	167	112	C01-010500067	251	196	C01-010500002

■ The above are standard sleeves. If you need to order non-standard products, please be sure to indicate the across-flats of nut and the total height of the bolt plus the nut. Please contact Loquen sales engineer if anything unclear.

SMC Series Single-acting Screw Type Ultra-thin Jack

- Ultra-thin flat design, suitable for where other jacks cannot be applied
- Light, thin, short and small, easy to carry
- No restriction of operating direction during operation
- Precise fine tuning of the lifting height, accurate to 0.01mm
- Integrated screw hydraulic mechanism, no need for additional oil pump and connecting oil pipes

Model	Order Number	Load Capacity of Hydraulic Cylinder(ton)	Stroke (mm)	Closed Height (mm)	Plunger External Diameter (mm)	Weight (kg)
SMC0525	C02-080100004	5	25	52	52	1.5
SMC1025	C02-080100003	10	25	54	62	2.2
SMC2005	C02-080100002	20	5	35	84	1.9
SMC3005	C02-080100001	30	5	36	95	2.3
SMC5005	C02-080100005	50	5	40	120	3.7

CLE Series Ultra Thin Single Acting Jack

- Adopting ultra-high pressure design (150MPa), with a smaller appearance and size, suitable for more narrow spaces
- Single acting design, load return

Model	bearing capacity (t)	Stroke (mm)	Body height (mm)	outside diameter (mm)	piston diameter (mm)
CLE-00510	5	10	30	60	21
CLE-01010	10	10	30	70	30
CLE-02510	25	10	30	90	47
CLE-05010	50	10	30	118	68
CLE-10010	100	10	30	152	94
CLE-12010	120	10	33	160	100
CLE-15010	150	10	34	180	116
CLE-20010	200	10	35	204	132

* The color of the jack is randomly shipped. If there are any special color requirements, please contact the engineer in advance and inform them

EBJ Series One-piece Jack



- Adjustable and anti-skid
- Safety valve to prevent overload
- Stable load, to ensure jacking safety
- Cast integrated connecting rod, labor-saving handle
- Automatic bypass port to prevent over-extension
- Quincuncial top seat or saddle-shaped wheel head All models include a handle

Model	Order Number	Load Capacity of Hydraulic Cylinder (ton)	Stroke (mm)	Closed Height (mm)	Weight (kg)
EBJ-2GC	S03-010100009	2	80	148	2.1
EBJ-3GC	S03-010100010	3	100	175	3.0
EBJ-5GC	S03-010100001	5	110	185	4.0
EBJ-8GC	S03-010100002	8	120	200	5.0
EBJ-10GC	S03-010100005	10	120	200	5.5
EBJ-12GC	S03-010100012	12	130	210	6.5
EBJ-16GC	S03-010100003	16	135	225	7.5
EBJ-20GC	S03-010100004	20	135	235	10.5
EBJ-32GC	S03-010100006	32	150	255	12.5
EBJ-50GC	S03-010100017	50	150	255	19
EBJ-70GC	S03-010100019	70	180	300	39
EBJ-100GC	S03-010100018	100	180	335	70

JBJ Series Screw Jack



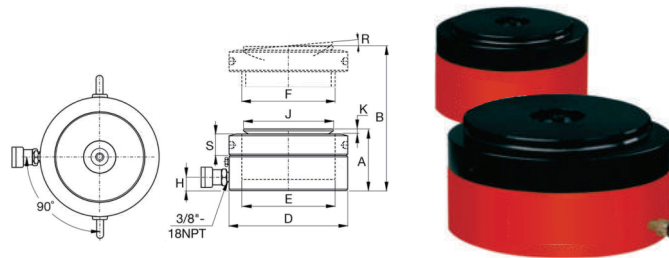
- Compact structure, light weight, portable, easy to repair, safe and reliable to use
- This product is suitable for support in the railway, car inspection and maintenance, mining, construction engineering and general lifting and lowering of heavy objects

Model	Order Number	Lifting Capacity (t)	Minimum Height (mm)	Lifting Height (mm)
JBJ-3.2GC	S03-010200001	3.2	220	110
JBJ-5GC	S03-010200003	5	250	130
JBJ-8GC	S03-010200009	8	255	140
JBJ-10GC	S03-010200004	10	275	150
JBJD-10GC	S03-010200012	10	192	80
JBJ-16GC	S03-010200005	16	315	180
JBJ-20GC	S03-010200002	20	320	180
JBJD-20GC	S03-010200013	20	225	100
JBJ-25GC	S03-010200010	25	260	125
JBJ-32GC	S03-010200006	32	390	200
JBJD-32GC	S03-010200014	32	315	180
JBJ-50GC	S03-010200007	50	435	250
JBJD-50GC	S03-010200015	50	315	150
JBJ-100GC	S03-010200011	100	450	200

* The color of the jack is randomly shipped. If there are any special color requirements, please contact the engineer in advance and inform them

CLP Series Single-acting Self-locking Thin Jack

- Thin design, suitable for narrow spaces where standard cylinders cannot be used
- Self-locking for stable and safe long-term load support
- Single-acting, load return
- Can withstand an eccentric load up to 3% of the rated load without being crushed
- Overflow orifice also serves to limit the travel
- All models include a quick connector and a dust cap



Model	Order Number	bearing capacity (t)	Stroke (mm)	Closed Height A (mm)	Outside Diameter (mm)	Hydraulic Oil Capacity (cm ³)	Weight (kg)
CLP-602	C02-060100001	60	50	125	140	433	15.0
CLP-1002	C02-060100002	100	50	137	175	734	25.9
CLP-1602	C02-060100004	160	45	148	220	1040	44.0
CLP-2002	C02-060100005	200	45	155	245	1284	56.8
CLP-2502	C02-060100003	260	45	159	275	1649	74.0
CLP-4002	C02-060100006	400	45	178	350	2515	133.9
CLP-5002	C02-060100007	520	45	192	400	3285	188.9

RCS Series Single-acting Thin Jack

- Light and compact design
- Suitable for narrow spaces
- High quality steel plunger

Model	Order Number	bearing capacity (t)	Stroke (mm)	Closed Height A (mm)	Outside Diameter (mm)	Hydraulic Oil Capacity (cm ³)	piston diameter (mm)	Weight (kg)
RCS-51	C02-040100010	5	24	67	48	15	25	0.98
RCS-101	C02-040100002	10	38	88	69	55	38	4.1
RCS-201	C02-040100005	20	45	98	92	129	51	5
RCS-302	C02-040100006	30	62	117	101	261	66	6.8
RCS-502	C02-040100007	50	60	122	124	373	70	10.9
RCS-1002	C02-040100008	100	57	141	165	722	93	22.7
RCS-1502	C02-040100011	150	51	162	205	900	114	38

**RSM Series Ultra Thin Jack**

- Small and flat design, with handles for easy handling in large tonnage. Single acting spring retraction



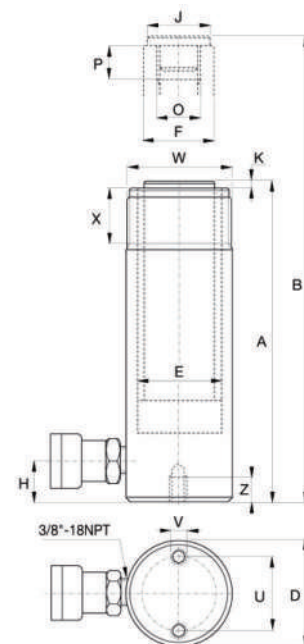
Model	Order Number	bearing capacity (t)	Stroke (mm)	Body height (mm)	Outside Diameter (mm)	Hydraulic Oil Capacity (cm ³)	piston diameter (mm)	Weight (kg)
RSM-50	C02-040200004	5	6	32	58x41	4	25.4	1
RSM-100	C02-040200003	10	12	42	82x55	18	38	1.4
RSM-200	C02-040200002	20	11	51	101x76	32	51	3.1
RSM-300	C02-040200006	30	13	58	117x95	55	63.5	4.5
RSM-500	C02-040200001	50	16	66	140x114	99	70	6.8
RSM-750	C02-040200007	75	16	79	165x139	164	83	11.3
RSM-1000	C02-040200010	100	16	85	178x153	203	92.5	14.5
RSM-1500	C02-040200008	150	16	100	215x190	317	114.5	26.3
RSM-2000	C02-040200009	200	30	127	280x245	900	150	51

* The color of the jack is randomly shipped. If there are any special color requirements, please contact the engineer in advance and inform them

RC Series Single-acting General-purpose Jack

Model	Order Number	Load Capacity of Hydraulic Cylinder ton (kN)	Stroke (mm)	Closed Height A (mm)	Outside Diameter D (mm)	Hydraulic Oil Capacity (cm ³)	Piston Diameter (mm)	Weight (kg)
RC-50	C02-020100009	5	16	41	38	10	25.5	1.0
RC-51	C02-020100018		31	60	38	16		1.2
RC-53	C02-020100012		51	140	38	50		1.5
RC-55	C02-020100001		127	215	38	83		1.9
RC-57	C02-020100039		177	273	38	115		2.4
RC-59	C02-020100051		232	323	38	151		2.8
RC-101	C02-020100029	10	25	90	57	38	38.1	1.8
RC-102	C02-020100002		50	123	57	78		2.3
RC-104	C02-020100014		101	172	57	151		3.3
RC-106	C02-020100020		155	247	57	225		4.4
RC-108	C02-020100005		203	298	57	292		5.4
RC-1010	C02-020100021		257	349	57	370		6.4
RC-1012	C02-020100030		304	400	57	441		6.8
RC-1014	C02-020100004		356	450	57	516		8.2
RC-151	C02-020100011	15	25	124	69	51	41.1	3.3
RC-152	C02-020100017		51	149	69	104		4.1
RC-154	C02-020100013		101	200	69	207		5.0
RC-156	C02-020100031		152	271	69	309		6.8
RC-158	C02-020100052		203	322	69	412		8.2
RC-1510	C02-020100003		254	373	69	516		9.5
RC-1512	C02-020100053		305	423	69	620		10.9
RC-1514	C02-020100035		356	474	69	721		11.8
RC-251	C02-020100040	25	26	140	85	83	57.2	5.9
RC-252	C02-020100016		50	161	85	169		6.4
RC-254	C02-020100015		102	215	85	339		8.2
RC-256	C02-020100008		158	273	85	528		10.0
RC-258	C02-020100045		210	323	85	697		12.3
RC-2510	C02-020100027		261	374	85	863		14.1
RC-2512	C02-020100054		311	425	85	1033		16.3
RC-2514	C02-020100036		362	476	85	1202		17.7
RC-308	C02-020100026	30	204	376	102	880	57.2	18.1
RC-502	C02-020100023	50	51	176	127	364	79.5	15.0
RC-504	C02-020100010		101	227	127	727		19.1
RC-506	C02-020100024		159	283	127	1134		23.2
RC-5013	C02-020100025		337	460	127	2403		37.7
RC-756	C02-020100042	75	156	285	146	1601	95.2	29.5
RC-7513	C02-020100055		333	492	146	3427		59.0
RC-1006	C02-020100041	95	168	287	177	2239	104.9	59.0
RC-10010	C02-020100043		260	449	177	3466		72.0

- External ring threads, plunger threads and bottom mounting holes facilitates easy positioning (for most models)
- High strength alloy steel for durability
- High strength spring return
- High corrosion resistance of paint-baked surface
- Quick connector and dust cap included in all models
- Dust seals reduce contamination and prolong the life of the hydraulic cylinder
- Suitable for any mounting position



Guide Ring Design

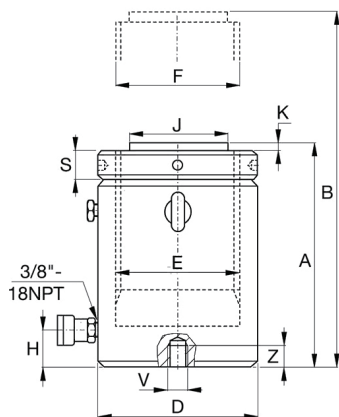
Loquen RC series hydraulic cylinder adopts guide ring design for a long life and lower failure rate.

* The color of the jack is randomly shipped. If there are any special color requirements, please contact the engineer in advance and inform them

CLL Series Single-acting Self-locking Hydraulic Jack



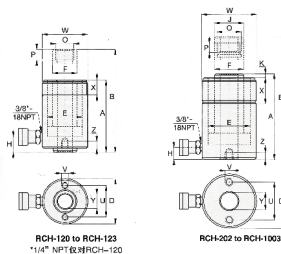
- Self-locking for stable and safe long-term load support
- Single-acting, load return
- Nut self-locking for high load safety
- Can withstand an eccentric load up to 5% of the load capacity of the hydraulic cylinder
- Overflow orifice also serves to limit the travel
- Interchangeable grooved hard saddles are standard configuration
- All models include a quick connector and a dust cap



Model	Order Number	bearing capacity(t)	Stroke (mm)	Closed Height A (mm)	Outside Diameter D (mm)	Hydraulic Oil Capacity (cm ³)	Weight (kg)
CLL-502	C02-090100019	50	50	164	125	357	15
CLL-504	C02-090100020		100	214	125	713	20
CLL-506	C02-090100005		150	264	125	1070	25
CLL-508	C02-090100016		200	314	125	1426	30
CLL-5010	C02-090100021		250	364	125	1783	35
CLL-5012	C02-090100022		300	414	125	2139	40
CLL-1002	C02-090100004	100	50	167	165	667	30
CLL-1004	C02-090100014		100	237	165	1333	39
CLL-1006	C02-090100002		150	287	165	1999	48
CLL-1008	C02-090100023		200	337	165	2666	56
CLL-10010	C02-090100024		250	387	165	3333	64
CLL-10012	C02-090100025		300	437	165	3999	73
CLL-1502	C02-090100026	150	50	209	205	990	53
CLL-1504	C02-090100007		100	259	205	1980	66
CLL-1506	C02-090100001		150	309	205	2970	78
CLL-1508	C02-090100027		200	359	205	3960	92
CLL-15010	C02-090100009		250	409	205	4950	104
CLL-15012	C02-090100028		300	459	205	5940	117
CLL-2002	C02-090100011	200	50	242	235	1333	83
CLL-2006	C02-090100015		150	343	235	3997	117
CLL-20010	C02-090100010		300	493	235	7995	170
CLL-2502	C02-090100029	250	50	249	275	1832	116
CLL-2506	C02-090100030		150	349	275	5496	162
CLL-25012	C02-090100031		300	499	275	10995	234
CLL-3002	C02-090100032	300	50	295	310	2285	173
CLL-3006	C02-090100033		150	395	310	6855	233
CLL-30012	C02-090100034		300	545	310	13740	323
CLL-4002	C02-090100035	400	50	335	350	2795	250
CLL-4006	C02-090100036		150	435	350	8385	327
CLL-40012	C02-090100037		300	585	350	16800	441
CLL-5002	C02-090100035	500	50	375	400	3650	367
CLL-5006	C02-090100036		150	475	400	10950	466
CLL-50012	C02-090100037		300	625	400	21930	617
CLL-6002	C02-090100041	600	50	395	430	4285	446
CLL-6006	C02-090100042		150	495	430	12855	562
CLL-60012	C02-090100043		300	645	430	25650	737
CLL-8002	C02-090100044	800	50	455	505	5895	709
CLL-8006	C02-090100045		150	555	505	17645	870
CLL-80012	C02-090100046		300	705	505	35370	1110
CLL-10002	C02-090100047	1000	50	495	560	7325	949
CLL-10006	C02-090100048		150	595	560	21975	1141
CLL-100012	C02-090100049		300	745	560	43980	1430

* The color of the jack is randomly shipped. If there are any special color requirements, please contact the engineer in advance and inform them

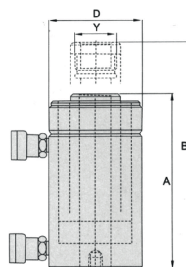
RCH Series Single-acting Hollow Jack



- Hollow plunger design can be used for both pull and push
- For models over 20 tons, use of a movable nickel-plated center tube to increase the product life
- Outer threads allow easy attachment
- Single acting, spring retraction
- Paint-baked surface for better corrosion resistance

Model	Order Number	Load capacity of Hydraulic Cylinder ton (kN)	Stroke (mm)	Closed Height A (mm)	Outside Diameter D (mm)	Hydraulic Oil Capacity (cm ³)	Center Hole Diameter Y (mm)	Weight (kg)
RCH-120	C02-030100010	12	8	56	70	14	19.6	1.5
RCH-121	C02-030100003	12	42	121	70	73	19.6	2.9
RCH-123	C02-030100009	12	76	184	70	136	19.6	4.5
RCH-202	C02-030100004	20	51	162	99	153	26.9	7.7
RCH-206	C02-030100007	20	155	306	99	473	26.9	14.0
RCH-302	C02-030100006	30	63	179	114	297	33.3	10.8
RCH-306	C02-030100005	30	156	330	114	722	33.3	21.8
RCH-603	C02-030100002	60	76	248	159	625	53.8	28.1
RCH-606	C02-030100001	60	153	324	159	1259	53.8	35.5
RCH-1003	C02-030100008	100	76	254	213	1012	79.0	64

RRH Series Double-acting Hollow Jack



- Double-acting hydraulic retraction
- The relief valve protects the oil cylinder against damage in case of overload
- Outer threads facilitate installation
- The floating quill with nickel-plated surface prolongs the product life
- The hollow plunger allows dual action of both pull and push
- All models include a quick connector and a dust cap
- The dust ring reduces contamination and prolongs the life of the hydraulic cylinder
- Paint-baked surface for better corrosion resistance

Model	Order Number	Load capacity of Hydraulic Cylinder ton (kN)	Travel (mm)	Load Capacity of Hydraulic Cylinder (kN)		Effective Area of Hydraulic Cylinder (cm ²)		Hydraulic Oil Capacity (cm ³)		Closed Height (mm)	Outside Diameter D (mm)	Center Hole Diameter (mm)	Weight (kg)
				Forward	Return	Forward	Return	Forward	Return				
RRH-307	C02-110100010	30(266.7)	178	326	213	46.6	30.4	829	541	330	114	33.3	22.2
RRH-3010	C02-110100011	30(266.7)	257	326	213	46.6	30.4	1202	784	432	114	33.3	27.1
RRH-603	C02-110100008	60(533.3)	89	576	380	82.2	54.0	733	482	248	159	53.8	28.0
RRH-606	C02-110100009	60(533.3)	165	576	380	82.2	54.0	1366	900	324	159	53.8	35.3
RRH-6010	C02-110100006	60(533.3)	257	576	380	82.2	54.0	2115	1393	438	159	53.8	46.2
RRH-1001	C02-110100012	100(888.9)	38	931	612	133.1	87.4	505	333	165	213	79.2	39.0
RRH-1003	C02-110100007	100(888.9)	76	931	612	133.1	87.4	1011	666	254	213	79.2	61.4
RRH-1006	C02-110100002	100(888.9)	152	931	612	133.1	87.4	2035	1337	342	213	79.2	79.2
RRH-10010	C02-110100003	100(888.9)	257	931	612	133.1	87.4	3420	2246	460	213	79.2	107.2
RRH-1508	C02-110100001	150(1333.3)	203	1429	718	204.1	102.6	4144	2083	349	248	79.2	111.5

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CLRG Series Double-acting Large-tonnage Jack

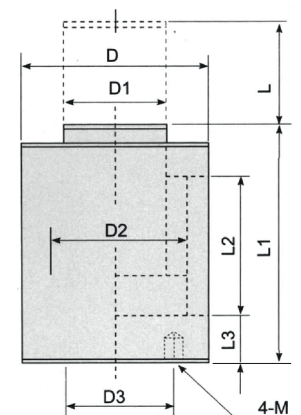
Model	Order Number	Bearing Capacity(t)	Stroke (mm)	Closed Height (mm)	Outside Diameter (mm)	Hydraulic Oil capacity (cm ³)	Piston Diameter (mm)	Weight (kg)
CLRG-502	C02-010100020	50	50	162	130	385	70	17
CLRG-504	C02-010100021		100	212	130	770		20
CLRG-506	C02-010100019		150	262	130	1155		25
CLRG-508	C02-010100023		200	312	130	1540		36
CLRG-5010	C02-010100044		250	362	130	1924		31
CLRG-5012	C02-010100051		300	412	130	2309		34
CLRG-1002	C02-010100043	100	50	179	165	664	95	19
CLRG-1004	C02-010100026		100	229	165	1327		29
CLRG-1006	C02-010100027		150	279	165	1991		40
CLRG-1008	C02-010100003		200	329	165	2655		50
CLRG-10010	C02-010100052		250	379	165	3318		61
CLRG-10012	C02-010100038		300	429	165	3982		71
CLRG-1502	C02-010100013	150	50	196	205	993	114	39
CLRG-1504	C02-010100024		100	246	205	1986		52
CLRG-1506	C02-010100028		150	296	205	2978		65
CLRG-1508	C02-010100006		200	346	205	3971		78
CLRG-15010	C02-010100030		250	396	205	4964		92
CLRG-15012	C02-010100046		300	446	205	5957		105
CLRG-2002	C02-010100015	200	50	212	235	1330	133	55
CLRG-2006	C02-010100039		150	312	235	3969		91
CLRG-2008	C02-010100016		200	366	235	5000		110
CLRG-20012	C02-010100040		300	462	235	7977		146
CLRG-2502	C02-010100010	250	50	235	275	1832	165	89
CLRG-2506	C02-010100025		150	335	275	5497		136
CLRG-2508	C02-010100064		200	385	275	7200		170
CLRG-25012	C02-010100036		300	485	275	10993		207
CLRG-3002	C02-010100053	300	50	322	310	2281	197	184
CLRG-3006	C02-010100029		150	422	310	6843		232
CLRG-3008	C02-010100011		200	472	310	8900		270
CLRG-30012	C02-010100012		300	572	310	13685		303
CLRG-4002	C02-010100032	400	50	374	350	2800	216	270
CLRG-4006	C02-010100054		150	474	350	8399		330
CLRG-4008	C02-010100005		200	524	350	11500		380
CLRG-40012	C02-010100055		300	624	350	16797		421
CLRG-5002	C02-010100009	500	50	419	400	3653	248	401
CLRG-5006	C02-010100001		150	519	400	10959		480
CLRG-5008	C02-010100002		200	569	400	15630		510
CLRG-50012	C02-010100041		300	669	400	21918		599
CLRG-6002	C02-010100004	600	50	429	430	4276	267	474
CLRG-6006	C02-010100056		150	529	430	12829		565
CLRG-6008	C02-010100065		200	579	430	18009		620
CLRG-60012	C02-010100057		300	679	430	25659		701
CLRG-8002	C02-010100058	800	50	484	505	5881	317	741
CLRG-8006	C02-010100059		150	584	505	17644		868
CLRG-8008	C02-010100066		200	634	505	25000		950
CLRG-80012	C02-010100067		300	734	505	35288		1058
CLRG-10002	C02-010100068	1000	50	564	560	7329	343	1062
CLRG-10006	C02-010100060		150	664	560	21986		1213
CLRG-10008	C02-010100069		200	714	560	32896		1300
CLRG-100012	C02-010100061		300	814	560	43972		1439



- Double-acting hydraulic retraction
- The built-in pressure relief valve prevents sudden overpressure
- Unique support design can withstand a lateral load equal to 10% of the oil cylinder capacity without damage to the oil cylinder
- Interchangeable grooved hard saddles are standard configuration Outer paint-baked coating and specially plated piston
- Standard base mounting holes are available on each oil cylinder model
- The dust ring reduces contamination and prolongs the life of the hydraulic cylinder
- A hydraulic lock can be added for field work and occasion where the pressure needs to be held for a long time

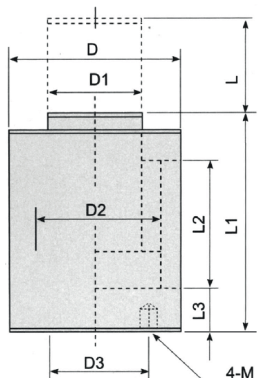


Three CLRG hydraulic cylinders are placed in parallel to push a prefabricated underground passage into place in segments



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CCLRG Series Double-acting Large-tonnage Jack



- Double-acting hydraulic retraction
- The built-in pressure relief valve prevents sudden overpressure
- Unique support design can withstand a lateral load equal to 10% of the oil cylinder capacity without damage to the oil cylinder
- Interchangeable grooved hard saddles are standard configuration Outer paint-baked coating and specially plated piston

Model	Bearing Capacity (t)	Stroke (mm)	Closed Height (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Piston Diameter (mm)
CCLRG-301	30	100	230	102	80	60
CCLRG-302		200	330	102	80	60
CCLRG-303		300	430	102	80	60
CCLRG-305		500	650	102	80	60
CCLRG-3010		1000	1160	108	80	60
CCLRG-501	50	100	230	127	100	70/80
CCLRG-502		200	330	127	100	70/80
CCLRG-503		300	430	127	100	70/80
CCLRG-505		500	650	127	100	70/80
CCLRG-5010		1000	1170	133	100	80
CCLRG-1001	100	100	250	180	140	100
CCLRG-1002		200	350	180	140	100
CCLRG-1003		300	450	180	140	100
CCLRG-1005		500	670	194	140	100
CCLRG-10010		1000	1190	194	140	100
CCLRG-1501	150	100	270	219	170	125
CCLRG-1502		200	370	219	170	125
CCLRG-1503		300	470	232	180	125
CCLRG-1505		500	680	232	180	125
CCLRG-15010		1000	1210	232	180	125
CCLRG-2001	200	100	280	273	200	145
CCLRG-2002		200	380	273	200	145
CCLRG-2003		300	495	273	200	145
CCLRG-2005		500	700	273	200	145
CCLRG-20010		1000	1230	273	200	145
CCLRG-3201	320	100	310	325	250	180
CCLRG-3202		200	410	325	250	180
CCLRG-3203		300	520	325	250	180
CCLRG-3205		500	720	351	250	180
CCLRG-32010		1000	1280	351	250	180

Model	Bearing Capacity (t)	Stroke (mm)	Closed Height (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Piston Diameter (mm)
CCLRG-4001	400	100	350	377	280	200
CCLRG-4002		200	460	377	280	200
CCLRG-4003		300	560	377	280	200
CCLRG-4005		500	760	377	280	200
CCLRG-40010		1000	1300	377	280	200
CCLRG-5001	500	100	360	425	320	220
CCLRG-5002		200	460	425	320	220
CCLRG-5003		300	560	425	320	220
CCLRG-5005		500	780	457	320	220
CCLRG-50010		1000	1340	457	320	240
CCLRG-6301	630	100	420	480	360	250
CCLRG-6302		200	520	480	360	250
CCLRG-6303		300	630	480	360	250
CCLRG-6305		500	830	480	360	250
CCLRG-63010		1000	1380	480	360	260
CCLRG-8001	800	100	450	530	400	280
CCLRG-8002		200	560	530	400	280
CCLRG-8003		300	680	530	400	300
CCLRG-8005		500	890	530	400	300
CCLRG-80010		1000	1430	530	400	300
CCLRG-10001	1000	100	500	610	450	320
CCLRG-10002		200	610	610	450	320
CCLRG-10003		300	710	610	450	320
CCLRG-10005		500	950	610	450	320
CCLRG-100010		1000	1530	630	450	320

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CM Series Double-acting Multi-section Jack


- Low profile, large travel, can be applied to small space jacking, double acting hydraulic return.
- Simple design, surface paint treatment, elegant appearance

Model	Order Number	Number of Sections	Stroke (mm)	Working Ability(t)	Outer Diameter of Oil Cylinder (mm)	Closed Height (mm)	Hydraulic Oil Capacity (cm3)	Weight (kg)
CM-2012	C02-100200001	2	300	20	140	270	1500	28
		1	145	45				
CM-2018	C02-100200002	3	450	70	170	320	2500	45
		2	155	45				
		1	145	20				
CM-10012	C02-100200004	2	190	100	100	320	4000	265
		1	210	300	300			

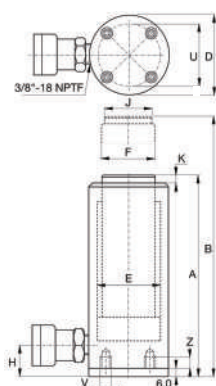
CMD Series Single-acting Multi Jack

- Separate multi-section, can be in a small space in a large stroke jacking operation, single action, gravity retraction
- Simple design, surface paint treatment, elegant appearance



Model	Order Number	Number of Sections	Stroke (mm)	Working Ability(t)	Outside Diameter (mm)	Closed Height (mm)	Hydraulic Oil Capacity (cm3)	Weight (kg)
CMD102	C02-020400001	2	270	10	110	250	810	18
		1	135	30				
CMD103	C02-020400002	3	435	10	152	280	2250	40
		2	290	30				
		1	145	60				
CMD152	C02-020400003	2	300	15	125	280	1308	28
		1	150	40				
CMD153	C02-020400004	3	500	15	175	320	3543	60
		2	340	40				
		1	170	80				
CMD302	C02-020400005	2	300	30	152	304	2088	45
		1	150	60				
CMD303	C02-020400006	3	600	30	220	366	6803	106
		2	400	60				
		1	200	135				
CMD502	C02-020400007	2	300	50	170	350	3800	68
		1	150	100				
CMD503	C02-020400007	3	600	50	230	390	9500	152
		2	400	100				
		1	200	190				

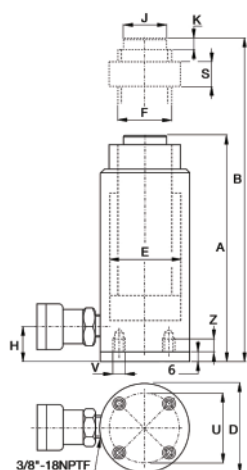
RAC Series Single-acting Aluminum Jack



- Single acting, spring retraction
- Can withstand an eccentric load up to 10% of the rated load
- Both the base plate and the saddle are made of steel

Model	Order Number	Load Capacity (ton)	Stroke (mm)	Closed Height (mm)	Extended Height (mm)	Outer diameter of Oil Cylinder D (mm)	Hydraulic Oil Capacity (cm ³)	Weight (kg)
RAC-202	C02-020200004	20	50	174	224	85	156	3.6
RAC-204	C02-020200005		100	225	325	85	314	4.1
RAC-206	C02-020200001		150	274	424	85	468	4.5
RAC-302	C02-020200006	30	50	181	231	100	221	4.6
RAC-304	C02-020200007		100	231	331	100	442	5.2
RAC-306	C02-020200008		150	281	431	100	663	5.9
RAC-502	C02-020200009	50	50	186	236	130	354	8.5
RAC-504	C02-020200002		100	236	336	130	709	9.8
RAC-506	C02-020200010		150	286	436	130	1063	11.1

RACL Series Single-acting Self-locking Aluminum Jack



- Nut locking, spring retraction
- Use of the self-locking nut to mechanically lock the load for safety
- All models have a standard handle
- Both the base plate and the saddle are made of steel

Model	Order Number	Load (ton)	Stroke (mm)	Closed Height (mm)	Outer Diameter of Oil Cylinder (mm)	Hydraulic Oil Capacity (cm ³)	Weight (kg)
RACL302	C02-090200001	30	50	231	100	221	5.4
RACL304	C02-090200002		100	281	100	442	6.1
RACL306	C02-090200003		150	331	100	663	6.8
RACL502	C02-090200004	50	50	236	130	354	9.3
RACL504	C02-090200005		100	286	130	709	10.6
RACL506	C02-090200006		150	336	130	1063	11.9
RACL1002	C02-090200007	100	50	296	180	716	21.9
RACL1004	C02-090200008		100	346	180	1431	24.2
RACL1006	C02-090200009		150	396	180	2147	26.5
RACL1502	C02-090200010	150	50	323	230	1135	32.2
RACL1504	C02-090200011		100	373	230	2270	36.2
RACL1506	C02-090200012		150	423	230	3405	40.2

RACH Series Single-acting Hollow Aluminum Jack

- The design of hollow embolism is suitable for pushing
- The surface has undergone complete hardening treatment, which enhances its strength
- Aluminum alloy oil cylinders have advantages such as light weight

Model	Order Number	Load (ton)	Stroke (mm)	Closed Height (mm)	Outer Diameter of Oil Cylinder (mm)	Hydraulic Oil Capacity (cm ³)	Hollow Diameter (mm)	Weight (kg)
RACH202	C02-030200001	20	50	188	100	164	27	5.2
RACH206	C02-030200002	20	150	315	100	491	27	7.1
RACH302	C02-030200003	30	50	208	130	256	34	8.0
RACH306	C02-030200004	30	150	333	130	766	34	11.2
RACH604	C02-030200005	60	100	315	180	847	54	19.5
RACH606	C02-030200006	60	150	380	180	1270	54	22.8
RACH1006	C02-030200007	100	150	391	250	2487	79	46.2

RAR Series Double-acting Aluminum Jack

- The surface has undergone complete hardening treatment, which enhances its strength
- Aluminum alloy oil cylinders have advantages such as light weight

Model	Order Number	Load (ton)	Stroke (mm)	Closed Height (mm)	Outer Diameter of Oil Cylinder (mm)	Hydraulic Oil Capacity (cm ³)	Weight (kg)
RAR-502	C02-110300001	50	50	201	145	354	11.1
RAR-504	C02-110300002	50	100	251	145	709	12.7
RAR-506	C02-110300003	50	150	301	145	1063	14.3
RAR-1004	C02-110300004	100	100	301	185	1431	19.3
RAR-1006	C02-110300005	100	150	351	185	2147	22.2
RAR-1008	C02-110300006	100	200	401	185	2863	25.1
RAR-1506	C02-110300007	150	150	348	230	3405	33.2

PLC Series Computer-controlled Multi-point Synchronous Jacking Equipment



Precision of displacement synchronization: 1 mm
 Points of displacement synchronization: 4,8,12,16,20,40,80
 Synchronization control mode: Displacement synchronization control
 Synchronization control strategy: Closed-loop synchronization control
 Operation mode: Combination of buttons and touch screen
 Connection mode: Fast plug connection

Equipment features: Synchronization up to 1mm, and even higher for special design
 Many synchronization control points, up to 100 points
 Simple system featuring one communication bus for connection in series to achieve extension by modular combination

- Up to 100 synchronous lifting points, and multiple lifting points can be set at each synchronous point according to the working conditions
- Multi-point synchronous jacking and lowering precision up to 1mm. The patented invention "lifting valve group" makes synchronous lowering possible
- The synchronization console adopts a touch-screen industrial computer, with a simple and easy-to-operate interface. The system is easy to use, highly stable and suitable for a variety of industrial environments
- The system has a one-key "automatic zero" function. No matter how complicated the datum surface of the members is, the system allows all cylinders to contact the upper member at the same time and then execute synchronous lifting and lowering of heavy loads. The synchronization error caused by the uneven gap between the end face of the oil cylinder and the datum surface of the members is completely eliminated.
- Networking with the communication bus: The communication bus is connected, by quick plug-in, with the central synchronization console and the PLC sub-stations of multiple synchronous pumping stations in series for communication of all information: two-way communication of the synchronization commands of the synchronization console and sensor information feedback
- Modular design, each individual hydraulic unit as a module. The synchronous pumping stations, hydraulic cylinders, pressure sensors, displacement sensors and hydraulic hoses form an independent unit for synchronous jacking and lowering. All independent units are connected in series and then to the central synchronization console using the communication bus to form a complete system
- Quick plug-in connection and networking. The synchronous pumping stations, hydraulic oil cylinders and hydraulic hoses are connected using hydraulic quick connectors; The synchronization console, synchronous pumping stations, sensors and communication bus are connected by electrical quick connectors.
- The electrical box of the PLC series special synchronous pumping stations is integrated with a PLC synchronization control sub-station for executing synchronization commands and collecting sensor signals. Each synchronous pumping station can access 2-6 synchronization control points
- Applicable to most standard hydraulic cylinders. Double-acting or single-acting cylinders can be selected to execute lifting and lowering

Main components and technical features of the PLC series high precision synchronous jacking equipment

Main products	Picture	Functional features
Synchronization console		The main equipment of the synchronization system, for issuing control commands as well as collecting and processing information. Mainly consists of an industrial touch screen computer and a PLC module
Synchronous pumping station		Supplies hydraulic oil to the system according to synchronization commands. Information is received and processed by the PLC electrical box of the pumping station. A high frequency reversing valve is adopted to execute the commands of the system
Hydraulic cylinder (single acting/ double acting)		Main actuating element, for lifting or lowering according to the commands of the system. The load capacity of a single unit varies from 50 to 1000 tons. Both single acting and double acting are applicable
Displacement sensor		Real-time measurement of jacking and lowering height values, which are finally fed back to the synchronization console via the synchronous pumping station. High measurement precision
Pressure sensor		Real-time measurement and feedback of system pressure values. High measurement precision, able to withstand a pressure value of up to 100 MPa.
Hydraulic hose		A system component that connects a hydraulic pumping station to a hydraulic oil cylinder, for transmitting hydraulic oil for the synchronization system. 3 times the safety factor. Quick plug-in connection
Communication bus		Communication bus connecting the synchronization console and the PLC control box of the synchronous pumping stations. One bus is used to connect multiple synchronous pumping stations in series. Quick plug-in connection
Sensor cable		Connect the displacement sensor and the pressure sensor to the PLC control box of the synchronous pumping stations to feedback displacement and pressure signals. Quick plug-in connection

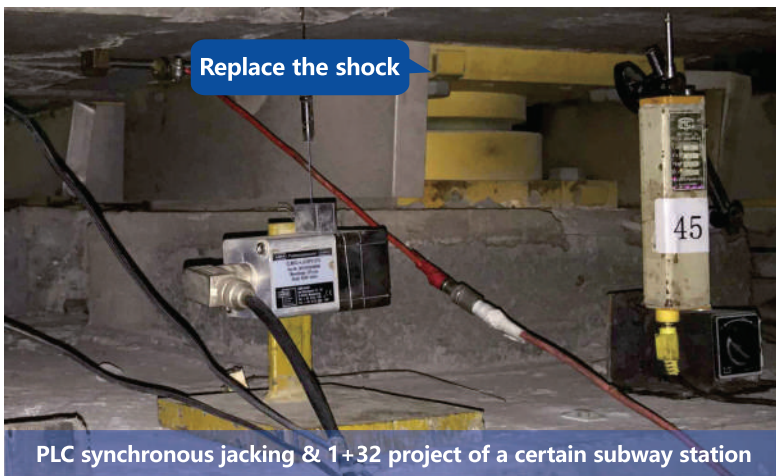




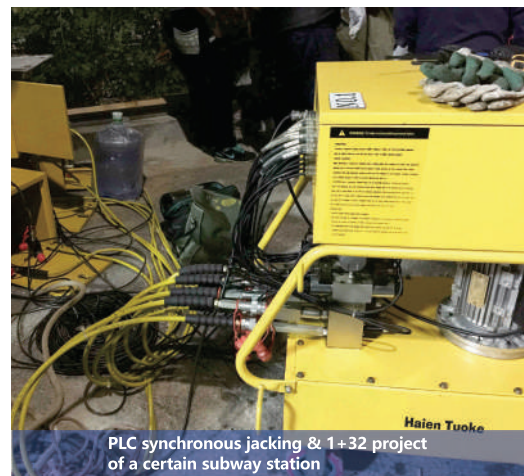
Jack project of a certain iron and steel plant



Jack project of a certain iron and steel plant



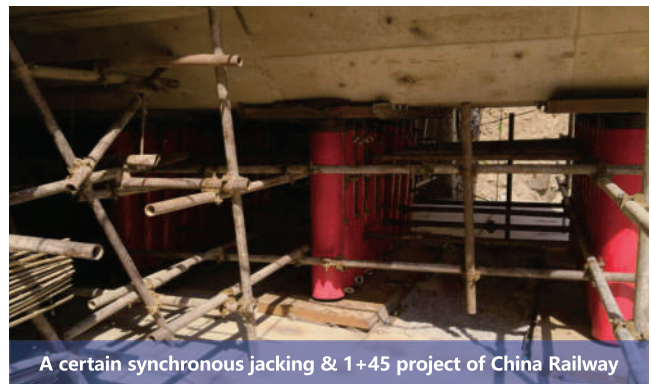
PLC synchronous jacking & 1+32 project of a certain subway station



PLC synchronous jacking & 1+32 project of a certain subway station



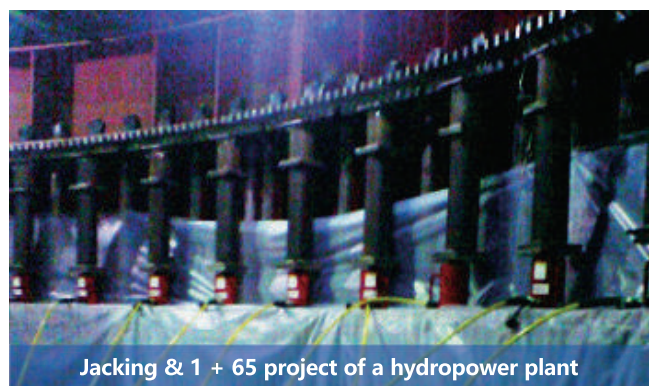
Synchronous jacking & 1+16 project of a certain ship lock



A certain synchronous jacking & 1+45 project of China Railway



Synchronous jacking & 1 + 12 project of a certain bridge deck

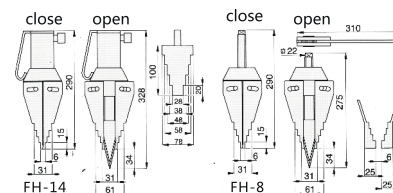


Jacking & 1 + 65 project of a hydropower plant

FH Series Flange Separator



- Suitable for pipeline maintenance, repair, testing and flange replacement, etc.
- Frictionless, parallel, smooth movement, causing no damage to the flange
- Wedge size 6 mm only
- The design of stepped arms allows full load on each step
- Available in mechanical and hydraulic forms
- Fewer moving parts, durable and easy to maintain
- Can be synchronously used in the 1+2 mode



Model	Order Number	Maximum Separation Capability ton (kN)	Tip Thickness (mm)	Maximum span (mm)	Type	Oil Capacity (cm3)	Weight (kg)
FH-8	C06-010100001	8 (72)	6	81	mechanical	—	6.5
FH-14	C06-010100002	14 (125)	6	81	hydraulic	78	7.1

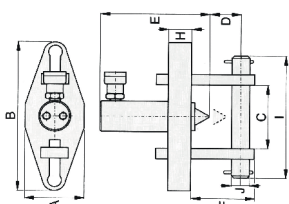
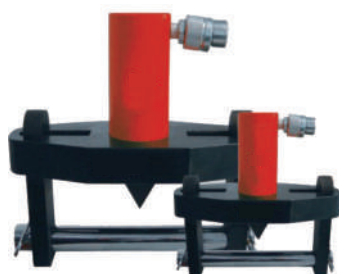
BF Series Integrated Hydraulic Flange Separator



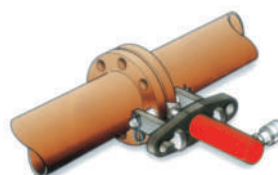
- Easy to operate
- Integrated structure without additional power source

Model	Order Number	Maximum Separation Capability ton (Ton)	Tip Thickness (mm)	Maximum span (mm)	Type	Weight (kg)
BF-15	C06-010200001	15	6	81	integrated hydraulic	11

FS Series Hydraulic Flange Separator



- Compact design, easy to use
- Adjustable tip width varies from 70 mm to 216 mm, a wide range of application
- Single acting, spring retraction. The RC series hydraulic cylinder facilitates fast, trouble-free operation

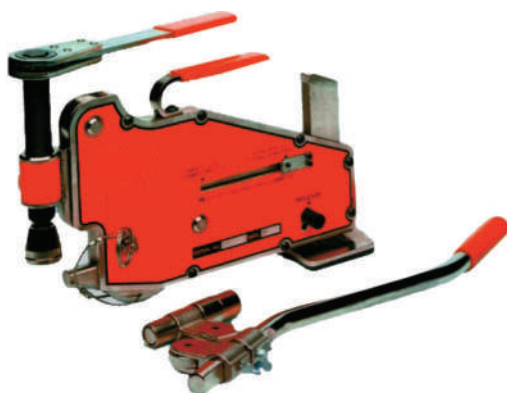


The suitable pumping station of the flange separator is P-392

ASA Value (bar)	Applicable Pipe Size (mm)	
	FS-56	FS-109
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	Order Number	Bolt Size (mm)	Working Capacity (ton)	Oil Capacity (cm3)	Stroke (mm)	Standard Wedge (mm)	Overall Dimensions (mm)										Weight (kg)
							A	B	C Min.	C Max.	D	E	F	H	I	J	
FS-56	C06-010300001	10-28	5	24.6	38	3-28	76	209	70	155	32	196	88	25	206	19	11.5
FS-109	C06-010300002	31-41	10	78.7	54	3-28	108	279	104	216	50	152	114	38	173	31	18

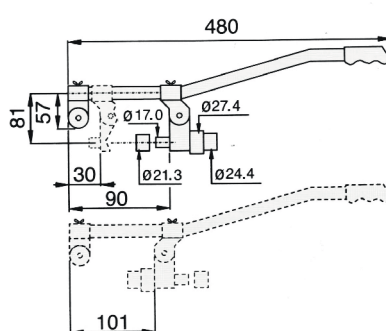
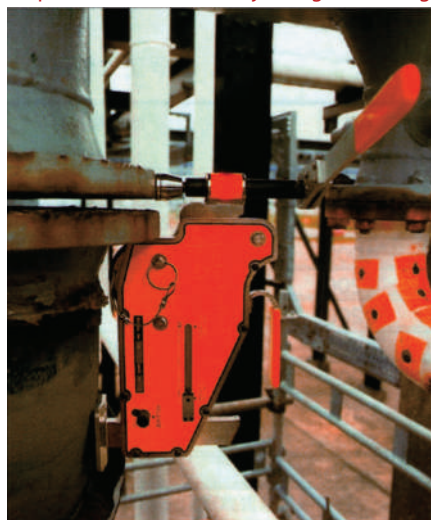
Flange Adjuster



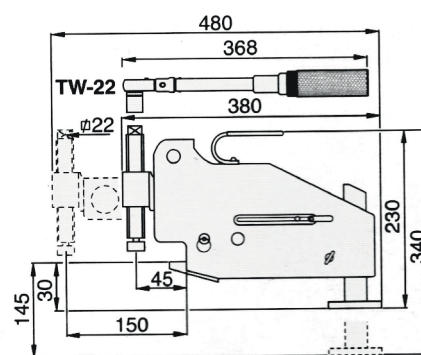
Bolt hole ring: 17-54mm
Flange thickness: 17-115mm
Maximum adjustment force: 0.3-3ton

- Corrects twisting and rotational misalignment without generating tension in pipes
- Suitable for most general-purpose ANSI, API, BS and DIN flanges
- Two manually operated models: ATM-1 for small flanges and ATM-3 for large high pressure flanges
- No slings, hooks or hosting gears required for absolute safety and precision
- ATM-1 features three bushings that can be adapted to different screw hole sizes, allowing easy reverse operation
- ATM-3 is suitable for the following flanges:
 - Seal flange rings: Flange wall thickness, minimum 30mm, maximum 100mm
 - Gasket flanges: Flange wall thickness, minimum 25mm, maximum 115mm
- Highly adjustable wing nuts and reversing lifting hooks on ATM-3 allow precise adjustment

Loquen ATM-3 is used to adjust large ANSI flanges



ATM-1



ATM-3



ATM-3 flange adjustment tool
Adjustable wing plates, reversible hooks and hand wrench TW-22 ensure precise alignment.

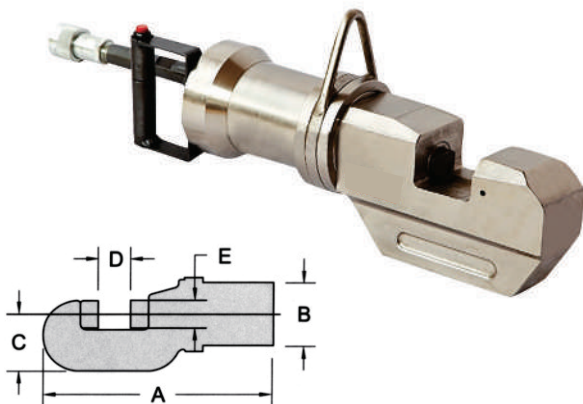


Special accessories

ATM-1 features three bushings that can be adapted to various screw hole sizes, allowing easy reverse operation.

Model	Order Number	Maximum Adjustment Force ton (kN)	Bolt Hole range		Flange Thickness		Weight (kg)	Matching ratchet wrench model (mechanical)
			(mm)	(inch)	(mm)	(inch)		
ATM-1	C07-010100004	0.3 (3)	17-27.2	11/16 - 1 1/8	17-50	11/16-2	2.0	—
ATM-3	C07-010100003	3.0 (27)	25-54	1-2 1/8	30-115	1 3/16-4 1/2	9.7	S22
ATM-5	C07-010100001	5.0 (45)	≥31.5	≥1 1/4	80-203	3 1/8-8	16.2	S27

V Series High Speed Wire Rod Round Steel Hydraulic Shear



- Loquen round steel hydraulic shear is a long-life round steel cutting tool and suitable for use in all types of high speed wire rod plants
- It can operation optimally for a long time and can cut alloy steel with a diameter of 32 mm and a hardness of HRC 38 within 2.5 seconds
- After cutting round steel, the movable cutting head can be automatically reset
- Easy to operate, safe and reliable operation

Comparison of shear sections



V70 hydraulic shear being used at a high speed wire rod plant of Nanjing Iron & Steel United Co., Ltd.

Model	shear type	Output (T)	max. diameter of shear bar(mm)	Dimension(mm)					Blade model	Weight (kg)
				A	B	C	D	E		
V14	Staggered shearing	15	14	397	247	22	144	—	EG0140	11
V15	Scissor style	20	16	420	200	25	105	90	EG0150	14
V35	Scissor style	35	25	580	240	30	128	122	EG0350	34
V45	Staggered shearing	45	32	580	246	38.5	138	114	EG0450	48

BCC Series Anchor Chain Hydraulic Shear



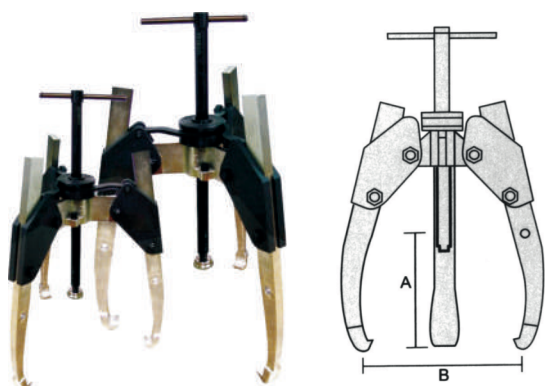
Safety device open



Safety device closed

- The cutting force of applicable standard cutting heads are suitable for GL-K1, GL-K2 and GL-K3
- The maximum cutting capacity is 47 Rockwell C
- The maximum diameter of rebars to be cut is 46 mm
- The BCC series hydraulic shear is designed and produced specially for cutting high-strength chain rebars
- Convenient replacement cutting heads are made of special high-strength steel
- Optional models are available in a range of cutting diameters up to 46mm
- All models feature powerful piston cylinders with a maximum operating pressure of 700 bar
- Rotatable safety control device design (see picture) facilitates cutting
- Widely applied in coal mines, shipping and other industries

Model	Order Number	Cutting Diameter (mm)	Cutting Capacity (ton)	Maximum Permitted		Maximum Oil Capacity (cm³)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
				Chain Grade	Iron & Steel Hardness					
BCC26	C09-020100001	26	70	80	44HRC	276	440	180	180	23
BCC26-100	C09-020100002	26	70	100	47HRC	276	440	180	180	23
BCC34	C09-020100003	34	100	80	44HRC	492	460	460	250	40
BCC34-100	C09-020100004	34	100	100	47HRC	492	460	460	250	40
BCC46	C09-020100005	46	140	80	44HRC	980	565	635	345	72
BCC46-100	C09-020100006	46	140	100	47HRC	980	565	635	345	72

KL Series Mechanical Automatic Centering Puller

- Longer jaws increase the reach and spread of the jaws
- Linkage of three jaws, auto alignment, convenient and easy to use
- Puller jaws are forged of high strength alloy steel, rugged and durable Provide reliable positioning
- The tonnage of this series varies from 7 tons to 30 tons
- High pull-out efficiency, can be operated by one person

Model	Order Number	Working Capacity (ton)	Maximum Reach A (mm)	Maximum Spread B (mm)	Weight (kg)
KL07	C05-080200001	7	295	60-430	10.5
KL17	C05-080200003	17	480	60-500	25.5
KL27	C05-080200004	27	585	60-600	58.0

KH Series Mechanical Locking Puller

A "safety cage" type jaw structure, a threaded shaft for labor-saving when a large torque is applied, and the slim and sharp jaws helpful for pull-out in narrow spaces. 2 or 3-jaw design and an internal and external pull-out structure enables one person to complete pull-out.

Model	Order Number	Working Capacity (ton)	Number of Jaws	Maximum Reach (mm)	Spread Range (mm)	Weight (kg)
KH02	C05-080100005	2	2	101	12-127	1.4
KH05	C05-080100006	5	3	101	12-127	1.8
KH06	C05-080100007	6	2	152	12-178	3.2
KH10	C05-080100001	10	3	152	12-178	3.6
KH12	C05-080100008	12	2	203	19-304	5.4
KH14	C05-080100009	14	2	245	25-381	5.9
KH17	C05-080100010	17	3	203	19-304	6.4
KH20	C05-080100011	20	3	245	25-381	7.3
KH25	C05-080100012	25	2	304	63-457	17.2
KH30	C05-080100013	30	3	304	63-457	20.0
KH35	C05-080100014	35	2	355	76-635	25.8
KH40	C05-080100015	40	3	355	75-635	30.8



KE Series Self-locking Anti-skid Hydraulic Puller

Model	Order Number	Working Capacity (ton)	Spread Range (mm)	Number of Jaws	Weight (kg)
KE10	C05-010100003	10	20-250	2/3	16
KE20	C05-010100001	20	30-350	2/3	34
KE30	C05-010100002	30	50-450	2/3	40
KE50	C05-010100004	50	75-600	2/3	92

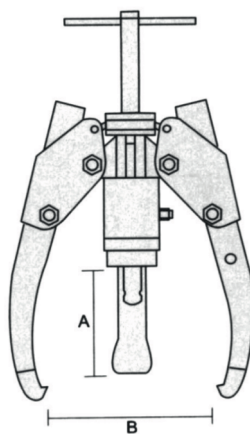


KG Series Inner And Outer Diameter Anti-skid Hydraulic Puller

Model	Order Number	Working Capacity (ton)	Spread Range (mm)	Number of Jaws	Weight (kg)
KG05	C05-110100003	5	15-150	2/3	14
KG10	C05-110100004	10	20-250	2/3	16
KG20	C05-110100001	20	30-350	2/3	34
KG30	C05-110100005	30	50-450	2/3	40
KG50	C05-110100002	50	75-650	2/3	92

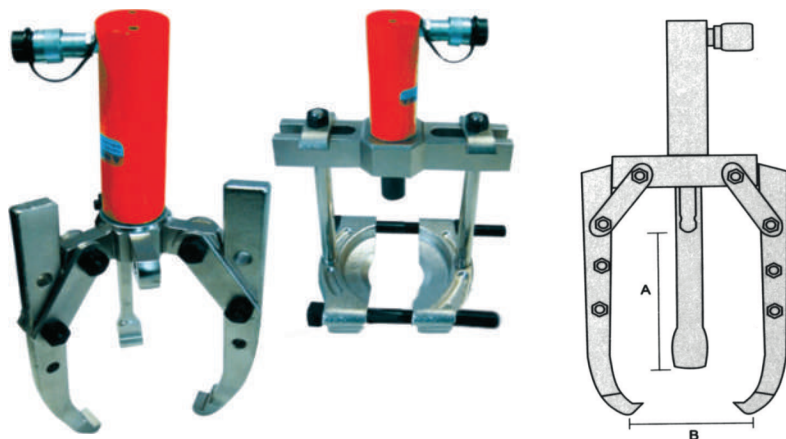


KY Series Hydraulic Automatic Centering Puller



- Linkage of three jaws, auto alignment, convenient and easy to use
- Puller jaws are forged of high strength alloy steel, rugged and durable
- The RCH series hydraulic cylinder is used for pulling
- The complete hydraulic puller kit includes jaws, hand pump, oil cylinder and high pressure hose
- The tonnage of this series varies from 10 tons to 60 tons

Model	Order Number	Working Capacity (Ton)	Maximum Reach A (mm)	Spread Range B (mm)	Weight (kg)
KY10	C05-040100001	10	296	60-430	12/43
KY20	C05-040100002	20	340	60-500	34/60
KY30	C05-040100003	30	420	60-600	60/88
KY60	C05-040100004	60	727	60-920	90/130

KF Series Three-claw Hydraulic Puller

- Two and three jaws are interchangeable. The tonnage of this series varies from 5 tons to 25 tons
- Puller jaws are forged of high strength alloy steel, rugged and durable
- The puller set includes a hand pump, a high pressure hose, a pressure gauge and a gauge stand.

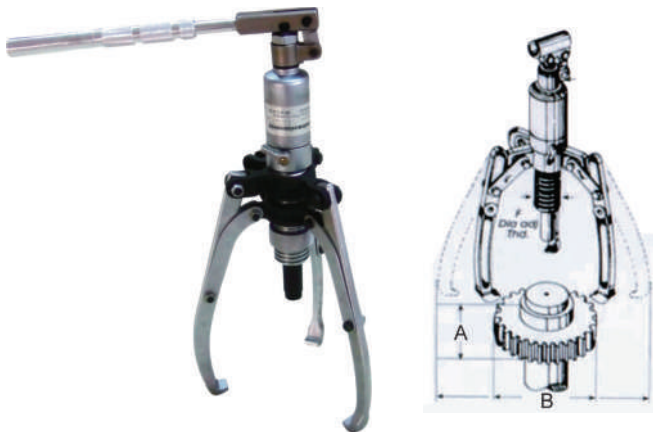
Model	Order Number	Working Capacity (ton)	Maximum Reach A (mm)	Maximum Spread B (mm)	Weight (kg)
KF05	C05-030100006	5	220	292	10
KF10	C05-030100002	10	250	400	25
KF15	C05-030100004	15	320	480	31
KF25	C05-030100007	25	260	578	65

EPH Series Separate Locking Hydraulic Puller

- Jaw system designed as a safety cage
- Easy removal of larger parts
- Powerful hydraulic system

Model	Order Number	Number of Jaws	Load Capacity of Hydraulic Cylinder (ton)	Jack	Stroke (mm)	Spread Range (mm)	Maximum Reach (mm)	Weight (kg)
EPH-208	C05-050100005	2	10	RC-106	152	19-304	203	10
EPH-210	C05-050100006		15	RC-1510	254	25-381	245	22
EPH-213	C05-050100007		25	RC-2524	362	63-457	304	44
EPH-216	C05-050100008		50	RC-5013	336	76-635	355	87
EPH-108	C05-050100001	3	10	RC-106	152	19-304	203	11
EPH-110	C05-050100002		15	RC-1510	254	25-381	245	23
EPH-113	C05-050100003		25	RC-2524	362	63-457	304	48
EPH-116	C05-050100004		50	RC-5013	336	76-635	355	91

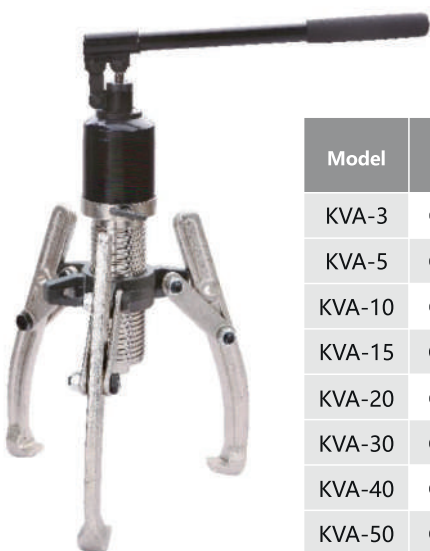
KV Series One-piece Hydraulic Puller



- One-piece hydraulic puller design
- 2/3 jaw and short and long jaw combination, with both the stability and reliable gripping force of the 3-jaw puller, and the functions of the 2-jaw puller
- Removable handle and the pressure applied in 360° for flexible use in confined spaces
- Available in different output tonnage of 4 to 30 tons
- Unique internal pressure relief safety valve design to protect the life of the oil hydraulic cylinder
- Adopt German high-precision piano wire tension spring design provides a long service life and fast retraction
- The claw hook frame structure is made of high strength alloy steel, not easy to deform
- The hydraulic cylinder is integrally processed from solid steel, with a high safety factor
- Quick positioning adjusting nut, saving the time and labor Accompanying by a storage box and an anti-release safety steel

Model	Order Number	Working Capacity (ton)	Maximum Reach A (mm)	Maximum Spread B (mm)	Stroke (mm)	Weight (kg)
KV06	C05-030300014	6	230	330	70	6.2
KV08	C05-030300011	8	245	350	85	8.2
KV12	C05-030300001	12	260	375	85	9.5
KV20	C05-030300013	20	350	520	111	34.5
KV30	C05-030300003	30	435	550	111	36

KVA Series One-piece Adjustable Hydraulic Puller



- 360° rotatable handle, chrome-plated surface, automatic retraction
- 2/3-jaw combination design, suitable for use in different places
- When two jaws are used, only 60% of the force is used

Model	Order Number	Pulling Capacity (T)	Pulling Height (mm)	Removal Diameter (mm)	Stroke (mm)	Weight (kg)
KVA-3	C05-030500001	3	145	150	60	3.5
KVA-5	C05-030500002	5	190	200	60	7
KVA-10	C05-030500003	10	250	250	80	12
KVA-15	C05-030500004	15	285	350	80	18
KVA-20	C05-030500005	20	305	400	80	24
KVA-30	C05-030500006	30	310	450	90	28
KVA-40	C05-030500007	40	320	500	100	35
KVA-50	C05-030500008	50	330	600	100	45
KVA-60	C05-030500009	60	350	700	120	100
KVA-80	C05-030500010	80	520	800	120	120

KVS Series One-piece Reinforced Puller

- The claw hooks and the claw hook frame are made of high strength forged alloy steel, snake-shaped claw, lifetime warranty
- Available in different output tonnage of 10, 12, 20, 30 tons
- Unique internal pressure relief safety valve design to protect the life of the oil hydraulic cylinder



Model	Order Number	Pulling Capacity (T)	Pulling Depth (mm)	Removal Diameter (mm)	Stroke (mm)	Weight (kg)
KVS-10inC	C05-030400001	10	195	30-250/310	82-130	7.5
KVS-10inCL	C05-030400002	10	250	30-280/340	82-180	10
KVS-12inC	C05-030400004	12	240	30-300/370	82-160	9.7
KVS-12inCL	C05-030400005	12	280	30-330/400	82-240	11.5
KVS-20inC	C05-030400007	20	275	50-360/430	82-180	14
KVS-20inCL	C05-030400008	20	330	50-380/450	82-280	16
KVS-25inC	C05-030400010	25	315	50-410/480	110-220	22
KVS-25inCL	C05-030400011	25	380	50-440/540	110-330	26
KVS-30inCB	C05-030400013	30	405	100-540/610	110-260	35

* L: Long jaw B: Long and short jaws c: Jaws under lifetime warranty

KVAS Series One-piece Anti-skid Hydraulic Puller

- Quick alignment and positioning: Easily operated by one person, safe and reliable
- The operating handle can be rotated in 360 degrees, allowing operation in any direction
- 2 jaws and 3 jaws are interchangeably: The spring and thimble centering without hurting any workpieces

Model	Order Number	Pulling Capacity (tons)	Pulling Height (mm)	Pulling Outer Diameter (mm)	Weight (kg)
KVAS-6	C05-030600001	6	190	325	8
KVAS-10	C05-030600002	10	280	450	11.7
KVAS-15	C05-030600003	15	305	485	14.8
KVAS-20	C05-030600004	20	365	570	25.7
KVAS-30	C05-030600005	30	465	680	36

KVG Series One-piece Hydraulic Puller

- Quick centering and positioning, easily operated by one person The 360° rotatable handle design allows the user to operate in any direction.
- Available in 4 to 30T, with an internal safety valve for preventing overload of the puller to prolong the service life.
- Both 2/3 jaws can be used, making it the most cost effective pulling tool.
- 20T, 30T and 50T are of two-stage design, the first stage is for fast lifting, which can save the preparation time for contact between the piston cylinder and the workpiece; the second stage is for high pressure output, which can greatly save the duration and times of rocker action, to quickly complete the workpiece disassembly.

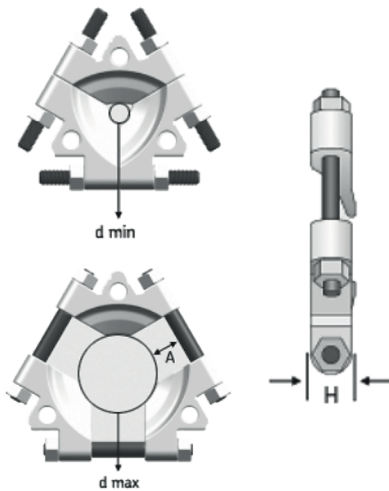
Model	Order Number	Pulling capacity (T)	Pulling height (mm)	Removal diameter(mm)	Travel (mm)	Weight (kg)
KVG-04	C05-030300015	4	185	255	60	4.5
KVG-06	C05-030300002	6	220	330	70	5.5
KVG-08	C05-030300016	8	230	350	85	6.5
KVG-12	C05-030300006	12	270	375	85	8
KVG-20	C05-030300007	20	360	520	110	22
KVG-30	C05-030300010	30	395	550	111	32
KVG-50	C05-030300008	50	460	615	111	45

New Puller Suit Combination



In removal and replacement of most bearings and other components, repair equipments may be damaged or the downtime not due to equipment faults may be prolonged due to rusting, wear, deformation and jam of machine parts. The three-claw hydraulic puller can prevent the bearing and shaft or workpiece and related equipment from being damaged, and allows fast, safe and powerful operation. It has been widely used as the support in bearing factories in the Europe and the United States, and widely applied in the iron and steel, petrochemical, machinery, electromechanical, textile, cement and other industries around the world.

Model of Suit Combination	Order Number	Pulling Capacity (tons)	Contents of Suit Combination	Pulling Height (mm)	Pulling Outer Diameter (mm)	Stroke (mm)
UKS-6N	C05-100100002	6	UK-6IN+K3-100	165	30-200/260	82-130
UKS-10NC	C05-100100009	10	UK-10INC+K3-100	195	30-250/310	82-130
UKS-8IN	C05-100100010	8	UK-8IN+K3-160	210	30-250/355	82-160
UKS-12INC	C05-100100004	12	UK-12INC+K3-160	240	30-300/370	82-160
UKS-15IN	C05-100100011	15	UK-15IN+K3-160	240	50-280/380	82-180
UKS-20INC	C05-100100008	20	UK-20INC+K3-160	275	50-360/430	82-180



Model of Pressure Plate	Order Number	d min		d max		A		H	
		mm	in.	mm	in.	mm	in.	mm	in.
K3-50	C05-100200001	12	0.5	50	2.0	20-30	0.8-1.2	15	0.6
K3-100	C05-100200002	26	1.0	100	3.9	30-55	1.4-2.2	25	1.0
K3-160	C05-100200003	50	2.0	160	6.3	45-73	1.8-2.9	30	1.2
K3-260	C05-100200004	90	3.6	260	10.2	70-114	2.8-4.5	42	1.7
K3-380	C05-100200005	140	5.5	380	15	81-142	3.2-5.6	58	2.3

Screw/Straight Claw Type Puller Set



It is a perfectly combined hydraulic puller cylinder, consisting of master hydraulic cylinders, jaws, pull rods and two-piece pressure plate, which is an ideal tool for removing pressure-fit parts, such as half bearings, bearings, shafts, gears and pulleys, especially when the bearings and the like operate in the very narrow gap of the machine body, the pressure plate combination can play its powerful part and shorten the downtime.

Model	Order Number	Pulling Capacity (tons)	Pulling Height (mm)	Pulling Outer Diameter (mm)	Stroke (mm)	Weight (kg)
UK-605	C05-100100012	6	300/190	235-210	82	13.2
UK-605E	C05-100100003	8	330/220	235-210	82	13.3
UK-805	C05-100100013	10	300/210	235-220	82	14.1
UK-805E	C05-100100005	12	330/240	235-220	82	14.1

BHP Series Standard Kit of Puller

- The claw hooks and the claw hook frame are made of high strength forged alloy steel, snake-shaped claw, lifetime warranty
- Available in different output tonnage of 10, 12, 20, 30 tons
- Unique internal pressure relief safety valve design to protect the life of the oil hydraulic cylinder

Model		BHP-1752	BHP-2751G	BHP-3751G	BHP-5751G
Order Number		C05-060100007	C05-060100002	C05-060100008	C05-060100001
Working Capacity (ton)		8	20	30	50
Puller Fittings Included	Jaw Type Puller	BHP-152	BHP-251G	BHP-351G	BHP-551G
	Cross Bearing Puller	BHP-162	BHP-261G	BHP-361G	BHP-561G
	Wooden Case	C2-6	CW-350	CW-350	CW-750

BHP Series (1) Cross Bearing Puller

- Precision control realizes fast, effective and safe pulling
- High-quality forged steel provides excellent reliability and durability
- The kit includes a hollow oil cylinder, a hand pump, a high pressure hose, a pressure gauge and a gauge stand
- Available with or without a complete hydraulic kit

Model	BHP-162	BHP-261G	BHP-361G	BHP-561G
Order Number	C05-120100002	C05-120100003	C05-120100001	C05-120100004
Working Capacity (ton)	8	20	30	50
Maximum Spread (mm)	266	351	454	570
Minimum Spread (mm)	106	139	179	200
Maximum Reach (mm)	426	571	711	863
Diameter of Adjusting Screw (mm)	3/4" -16UNF	1" -8UNC	1 1/4" -7UNC	1 5/8" -5.5UNC
Length of Adjusting Screw (mm)	400	675	795	975
Length of Pull Rod (mm)	105	239	203	609
Length of Pull Rod (mm)	354	419	457	863
Length of Pull Rod (mm)	-	571	711	-
Length of Pull Rod (mm)	-	114	-	-
Top Thread of Pull Rod	3/4" -16×25	3/4" -16×25	1" -14×35	1 1/4" -12×38
Bottom Thread of Pull Rod	5/8" -18×25	5/8" -18×25	1" -14×27	1 1/4" -12×38
Bearing Cup Puller	BHP-180	BHP-280	BHP-380	BHP-580
Whole Set Weight (kg)	26.0	62.2	121.5	185.3

BHP Series (2) Jaw Type Puller



Order example

Model BHP-251G

Includes a BHP-252 jaw type puller and a complete hydraulic kit (a hand pump, a hydraulic cylinder, a saddle, a hose, a pressure gauge and a gauge stand)

Model BHP-252

Includes only the mechanical part of the mechanical puller, and can be used with your existing hydraulic system

- Precision hydraulic control realizes fast, effective and safe pulling
- High-quality forged steel components provide excellent reliability and durability
- Available with or without a complete hydraulic kit

Kit Model		BHP-152	BHP-251G	BHP-351G	BHP-551G
Order Number		C05-060100004	C05-060100003	C05-060100005	C05-060100006
Working Capacity of Kit (ton)		8	20	30	50
Whole Set Weight (kg)		22.0	56.0	91.0	160.0
Hydraulic Components Included	Hand Pump	P-392	P-392	P-392	P-392
	Hydraulic Cylinder	RWH-121	RWH-202	RWH-302	RWH-603
	Saddles	-	HP-2015	HP-3015	HP-5016
	Hose	H704	H704	H704	H704
	Hose	GF-120B	GF-813B	GF-813B	GF-813B
Pressure Gauge		GA-4	GA-3	GA-3	GA-3
Model of Jaw Type Puller		BHP-1762	BHP-252	BHP-352	BHP-552
Maximum Spread, 2 Jaws (mm)		249	400	593	899
Maximum Spread, 3 Jaws (mm)		249	499	800	1100
Maximum Reach, 2 Jaws (mm)		252	300	387	700
Maximum Reach, 3 Jaws (mm)		252	300	387	700
Jaw Thickness (mm)		15	20	24	30
Jaw Width (mm)		23	27	38	39
Thread of Adjusting Screw		3/4 " -16UNF	1 " -8UNC	1 1/4 " -7UNC	1 5/8 " -5.5UNC
Length of Adjusting Screw (mm)		400	675	795	975

KB Series Coupler Special Puller



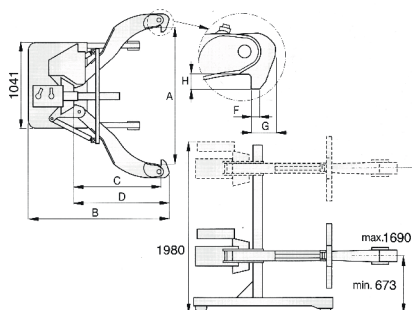
The coupler special puller is used in a power plant

- **Easy to install**
The product is well designed, featuring an aluminum alloy plunger, compact, light and easy to use
- **Simple to operate**
Just operate the 700 bar high pressure hand pump, and the oil hydraulic force directly acts on the ejector rod to the shaft to safely detach the coupler from the shaft
- **Significant effect**
Removing the coupler using this product not only spares the intensity (the workload is about 1/10 of that using the original method, high efficiency (save time by more than 90% compared with the original method), but also does not damage the original equipment in the slightest, protecting the original equipment well
- **One set features multi purposes**
No matter whether your hydraulic coupler is domestic or imported, what size it is, you only need to provide the disassembly thread size of the hydraulic coupler, and we will specially make a connection die for you, which can be used with a special puller, to achieve the effect of removal couplers of multiple specifications. This can save money!

Model	Order Number	Working capacity (ton)	Pressure (bar)	Oil capacity (cm3)	Travel (mm)	Length of oil cylinder (mm)	Weight of oil cylinder (kg)
KB-20	C05-070100001	20	700	450	75	304	9.0
KB-42	C05-070100002	42	700	530	90	373	17.0

KB-20 with one module M36*2 KB-42 with three modules M42, M46, M64

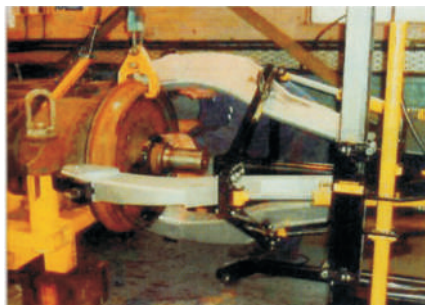
This product comes standard with a manual hydraulic system

KP Series Lockable Hydraulic Jaw Puller

- Roller vehicle with power lifting
- The hydraulic lifting vehicle lifts the puller up to 1.7m from the ground
- Adjustable jaws
- The puller can be easily removed from the lifting trolley
- Includes a double-stage electric pump with a remote-control switch, to control the pulling process with a wired remote controller
- The puller height ranges from 673mm to 1690mm
Includes various pulling fittings

Model	Order Number	Number of Jaws	Working Capacity ton (kN)	Spread A (mm)	Overall Length B (mm)	Reach C (mm)	Jaw Length D (mm)	Jaw Width F (mm)	Jaw Spacing G (mm)	Jaw Thickness (mm)	Weight (kg)
KP-1002E	C05-090100002	2	100(890)	190-1778	1955	1219	1346	76	89	89	771
KP-1003E	C05-090100003	3	100(890)	190-1778	1955	1219	1346	76	89	89	907

Quick and easy removal of a drive pulley by KP-1003E from the shaft



All 100-ton KP series lockable hydraulic clamp jaw pullers include the following fittings

Fittings	Model	Diameter (mm)	Length (mm)
Ejector Head	KP62	89	737
Ejector Head	KP63	89	483
Ejector Head	KP64	89	229

■ If you need a vehicle-mounted puller of special specifications, please contact Loquen sales engineer

KS Series Manual Vehicle-mounted Hydraulic Puller



- Made of ultra-high strength alloy steel, interference type pulling design
- Integrated quick puller connector, consisting of a horizontal lifting and moving unit
- Easy to adjust Easy to move, safe to operate
- Easy and quick removal of various discs, flanges, gears, bearings, pulleys, etc.

Model	KS-20	KS-30	KS-50
Order Number	C05-020300001	C05-020300002	C05-020300003
Working Capacity (ton)	20	30	50
Effective Reach of Axis (mm)	50	70	70
Maximum Vertical Pulling Distance (mm)	230	260	400
Maximum Inner Diameter in the Horizontal Direction (mm)	50-350	100-550	150-650
Maximum Outer Diameter in the Horizontal Direction (mm)	150-480	200-650	200-750

LA Series Automatic Vehicle-mounted Hydraulic Puller

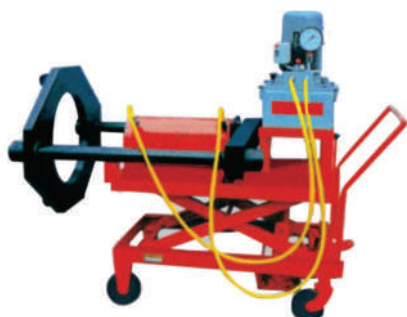


- Forged of ultra-high strength alloy steel, double-acting hydraulic design, used for removal of large shaft and hole workpieces
- Automatic hydraulic design/automatic hydraulic lifting, automatic workpiece clamping, automatic pulling
- Hydraulic jaws clamping to ensure safety during the whole operation
- Super strength alloy steel jaws, pulling structure design universal for 2 or 3 jaws, a puller disc may be added
- Labor saving and higher efficiency

Model	LA50337	LA50L337	LA100330	LA200320
Order Number	C05-020200005	C05-020200006	C05-020200002	C05-020200004
Working Capacity (ton)	50	50	100	200
Minimum Opening (mm)	100	64	120	285
Pulling Depth at the Minimum Opening (mm)	381	651	580	680
Maximum Opening (mm)	1220	1150	1400	1500
Pulling Depth at the Maximum Opening (mm)	178	559	425	520
Puller Center Height Adjustment (mm)	450-1120	450-1120	500-1250	720-1500
Cylinder Stroke (mm)	337	337	320	320
Power Source Three-phase	380V	380V	380V	380V
Overall Length (mm)	2286	2590	2300	2500



KZ Series Automatic Vehicle-mounted Hydraulic Puller



Composition of KZ series vehicle-mounted puller

1. Hydraulic lifting trolley
2. Electric ultra-high pressure pumping station
3. Hydraulic jacking piston
4. Clamps of various types and specifications
5. Support for operation

- Suitable for removal of the couplings, bearings and gears of the coal mill, steam turbine cam, induced draft fan and motor in the thermal power plant
- Unique double-speed pump configuration. Manipulate the cylinder to position the puller disc at low pressure, and manipulate the cylinder for jacking or return without opening the claw at high pressure, safe and reliable
- Made of high-strength alloy steel, large-tonnage oil cylinder, and large output
- Vehicle-mounted design, easy to move

Model	KZ-80	KZ-100	KZ-150	KZ-200
Order Number	C05-020100001	C05-020100003	C05-020100002	C05-020100004
Working Capacity (ton)	80	100	150	200
Effective Stroke (mm)	280	350	400	500
Minimum Opening (mm)	130	170	210	450
Maximum Opening (mm)	370	420	450	650
Working Pressure (MPa)	63	63	63	63

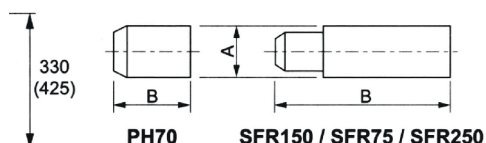
KM Series Large Tonnage Vehicle-mounted Hydraulic Puller



- Provided with a hydraulic lifting system, to position the puller easily and precisely
- Unique double-speed pump configuration. Manipulate the cylinder to position, open and clamp the claw at low pressure, and manipulate the cylinder for jacking or return without opening the claw at high pressure, safe and reliable
- Made of high-strength alloy steel, large-tonnage oil cylinder, and large output
- Vehicle-mounted design, easy to move

Model	Order Number	Working Capacity (ton)	Operating Pressure (MPa)	Pull-out Range (mm)	Ejection Stroke (mm)
KM-30	C05-010500006	30	63	300	150
KM-50	C05-010500004	50	63	350	160
KM-100	C05-010500003	100	63	450	160
KM-200	C05-010500005	200	63	500	160
KM-300	C05-010500001	300	63	550	200
KM-500	C05-010500002	500	63	600	200

Vehicle-mounted Puller Accessories



Bearing clamp pieces

Ejector head accessories

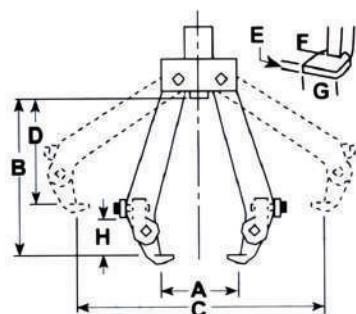
Type of Clamp Piece	Maximum Opening (mm)		
BL330	127-327		
BL425	152-425		
Model of Ejector Head	A (mm)	B (mm)	Quantity
PH70	70	70	1
SFR150	70	150	2
SFR75	70	75	1
SFR250	70	250	1

- The ejector heads are provided with the vehicle-mounted puller

PH Series 100-ton Vehicle-mounted Puller

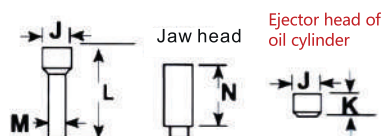


- You can adjust the jaws so that the jaws always come into contact with the workpiece in a flat surface
- The higher the pulling force, the higher the gripping force
- The 100-ton single acting hydraulic oil cylinder has a characteristic of spring return and the maximum operating pressure of 700 bar
- The lifting ring of the puller can lift a workpiece at its center and can still operate over 914 mm off the ground
- You can adjust the handle to move the puller up and down in the vertical direction
- The spring-loaded system can withstand 1000 tons of uneven load
- The hydraulic pump is a double-speed, high-pressure electric pump with a 7.6m remote control cable.
- The puller can move freely
- The ejector head is available in 105 mm and 63.5 mm
- Suitable for arduous maintenance of large equipment and machinery in iron and steel plants, mining areas, oilfields, utilities, paper mills, construction industry, railways, aircraft repair, shipyards and other places



- Model: PH1002-100ton, 2-jaw puller. Including a self-clamping puller, PE552S-220 double-speed electric/hydraulic drive unit, C10010C 1000-ton 260 mm travel cylinder, 6 ejector heads
Weight: 404 kg
- Model: PH1002J, the same as PH1002-220 but without any hydraulic drive unit, weight: 375 kg. PE552S-220 - hydraulic pump only, 0.84 kw. 220v, 50Hz, single phase, the current at the maximum load 13A, 115v, 50/60Hz model also available
- Note: Corresponding to 115V, 50/60Hz, the model is PH1002

Model	Order Number	Minimum Opening A (mm)	Reach at Minimum Opening B (mm)	Maximum Opening C (mm)	Reach at Maximum Opening B (mm)	Dimensions of Jaw End (mm)			Height of Oil Cylinder H(mm)	Adjustment Range of Vertical Height (mm)	Total Length (mm)	Maximum Workpiece Thickness (mm)	Wheel Diameter (mm)	Power Sou
						E	F	G						
PH1002-220	C05-010200001	381	1067	1219	864	25.4	57.1	127	260	305-914	2388	305	260	220V, 50Hz, 13A
PH1002J	C05-010200002	381	1067	1219	864	25.4	57.1	127	260	305-914	2388	305	260	-



Model	PH-44745	PH-44766	PH-303045
Type of Ejector Head	Ejection Rod	Extension Rod	Ejection Rod
Number of Included Ejector Heads of Puller	1	4	1
J(mm)	105	105	105
K(mm)	-	-	79.4
L(mm)	34.3	-	-
M(mm)	63.5	-	-
N(mm)	-	203	-

PLC Series Digital Intelligent Pump



- Easy to operate: One-button operation. The operator can tighten or loosen bolts easily just by pushing a button
- High efficiency: Compared with the ordinary manually operated wrench pump, this pump has a compact working pace, eliminating the response time of the operator and increasing the average working efficiency by 50%
- The parameters of up to 5 hydraulic wrenches of different specifications can be preset to easily achieve automatic tightening and automatic loosening
- Access to the data screen for easy query of all tightening torque values
- Easy manual/automatic switching, to cope with special working conditions easily

Model	Order Number	Rated Pressure (bar)	Flow Rate (L/min)	Power supply	Power (KW)	Oil Volume (L)	Weight (kg)
PLC-4100	S01-021700002	700	7 - 1.6 - 0.8	220V/50Hz	1.1	4	29

KLW-4100 Large Flow Electric Hydraulic Pump



- Auto switching of three pressure outputs and three flow rate outputs to maximize the working efficiency.
- Φ100 large-dial high-precision pressure gauge, clear reading, to ensure high accuracy of wrench torque
- Free adjustment of output pressure within the range of 70-700 bar
- Standard configuration: two synchronous ports (i.e. driving two hydraulic wrenches at the same time), or four synchronous ports as an option
- Oil tank and pump body made of Al-Ti alloy small, light weight and easy to carry.
- The forced oil circuit cooling device ensures continuous operation for 24 hours without interruption
- A motor of different voltage/frequency can be provided according to the customer's requirements

Model	Order Number	Rated Pressure (bar)	Flow Rate (L/min)	Power supply	Power (KW)	Number of Interfaces	Oil Volume (L)	Weight (kg)
KLW-4100-2	S01-020400002	700	0.8 - 1.6 - 10.6	220V/50Hz	1.1	2	6	23
KLW-4100-4	S01-020400001	700	0.8 - 1.6 - 10.6	220V/50Hz	1.1	4	6	24

RPP-B Pneumatic Hydraulic Pump



- Pneumatic three-stage flow hydraulic torque wrench pump
- Optionally connect multiple torque wrenches for operation
- Provided with a cooler. Suitable for continuous operation, an external protective steel frame
- Φ100 pressure gauge, an aluminum oil tank with oil level indicator
- Various pressure adjustment between 70 - 700 bar
- Continuous operation design. Optional hose meters

Model	Order Number	Rated Pressure (bar)	Flow Rate (L/min)	Input Air Source (bar)	Number of Interfaces	Oil Volume (L)	Weight (kg)
RPP-B-2	S01-030500002	700	1.1 - 2.2 - 10	4 - 8	2	6	19
RPP-B-4	S01-030500003	700	1.1 - 2.2 - 10	4 - 8	4	6	20

RP-E Dual Motor Electric Hydraulic Pump



- IEC brushless motor Weak electricity controlled handle
- Double pump head structure, three-stage flow, high flow rate, high efficiency
- Configured with an overload protector to effectively ensure motor safety
- Double air-cooled radiators, continuous operation with a low temperature rise

Model	Order Number	Rated Pressure (bar)	Flow Rate (L/min)	Power Supply	Power (KW)	Oil Volume (L)	Weight (kg)
RP-E	S01-020200001	700	2.5 - 8 - 20	380V/50Hz	4.4	40	80

RP-D Large Capacity Electric Hydraulic Pump



- Electric (220V) two-stage electric pump with a built-in bypass circuit
- Precise setting of the torque by adjusting the relief valve
- Remote-controlled patchboard, safety control button, suitable for operation by a single person
- Equipped with two synchronization interfaces

Model	Output Interface	Rated Pressure (bar)	Flow Rate (L/min)	Reversing Method	Power Supply	Power (KW)	Oil Volume (L)	Weight (kg)
RP-D-1	S01-020300002	700	0.8 - 6	Electro-magnetic	220V/50Hz	1.1	7.6	27
RP-D-2	S01-020300001	700	0.8 - 6	Electro-magnetic	220V/50Hz	1.1	7.6	28

RP-FB-SS Digital Explosion-proof Hydraulic Pump



- The electronic control system adopts Exd II BT4 explosion-proof starter, which is safe and explosion-proof
- Easy to operate, one click operation
- High efficiency, eliminating operator's reaction time and increasing average work efficiency by 50%
- Preset parameters for up to 5 different specifications of hydraulic wrenches
- Can enter the data interface and easily query all torque values for tightening
- Easily switch between manual/automatic modes to cope with special working conditions

Model	Rated Pressure (bar)	Flow Rate (L/min)	Reversing Method	Power Supply	Power (KW)	Oil Volume (L)	Weight (kg)
RP-FB-SS	700	1.1 - 6.5	Electro-magnetic	220V/50Hz	1.5	10	75

RP-FB General Explosion-proof Hydraulic Pump



- An ExdII BT4 type three-phase asynchronous motor, safe and suitable for explosion-proof occasions
- The electric control system has an ExdII BT4 type explosion-proof starter, safe and explosion prevention
- External pressure regulating valve, continuous pressure regulation between 7-70 Mpa
- The pump is provided with a tubular removable protection frame for easy movement of the pump if damaged.

Model	Rated Pressure (bar)	Flow Rate (L/min)	Reversing Method	Power Supply	Power (KW)	Oil Volume (L)	Weight (kg)
RP-FB	700	1.0 - 6.0	Electro-magnetic	220V/50Hz	1.5	20	62.8

BEAG Series Light Ultra-high Pressure Electric Pump

- Gear pump + high pressure plunger pump, good self-priming performance, no booster, a long life
- EC brushless motor, low noise, and maintenance-free
- Pressure regulating valve for continuous pressure regulation
- Built-in check valve, pressure holding while the machine is stopped
- Special motor protector, effective protection of the motor safety
- 5M wire controlled handle

Model	Rated Pressure(bar)	Flow Rate (L/min)	Power Supply	Power (KW)	Fuel Tank Capacity(L)	Weight (kg)
BEAG 1500	1600	0.25-2.5	220V/50Hz	1.1	5	27
BEAG 2500	2500	0.45-3	220V/50Hz	3	5	60-80 Including oil

BEAG-2008 Ultra-high Pressure Electric Pump

- Gear pump + high pressure plunger pump, good self-priming performance, no booster, a long life
- EC brushless motor, low noise, and maintenance-free
- Pressure regulating valve for continuous pressure regulation
- Built-in check valve, pressure holding while the machine is stopped
- Special motor protector, effective protection of the motor safety
- 5M wire controlled handle

Model	Order Number	Rated Pressure (bar)	Flow Rate (L/min)	Power Supply	Power (KW)	Fuel tank capacity (L)	Weight (kg)
BEAG-2008	S01-020900002	2000	0.3 - 2.5	220V/50Hz	1.1	6	23

BEA-2008 Ultra-high Pressure Electric Pump

- Small and light, suitable for power generation, chemical, shipbuilding, heavy and other industries.
- Automatic switching function of high and low pressure, with excellent performance
- Suitable for bolt tensioner, knocking and interference fit of hydraulic nuts (such as shaft, propeller assembly and other occasions)
- Small power, large flow rate, the latest dual heat dissipation technology
- Extra-long continuous operation time, excellent working efficiency, brushless design, maintenance-free

Model	Order Number	Rated Pressure (bar)	Flow Rate (L/min)	Power Supply	Power (KW)	Fuel tank Capacity (L)	Weight (kg)
BEA-2008	S01-020500001	1600	0.15 - 3	220V/50Hz	1.1	4	24

BPV Series Ultra High Pressure Pneumatic Hydraulic Pump

- Fully manufactured of stainless steel, elegant appearance, performance much higher than that of similar products
- Small, up to 5-liter oil tank with the oil mark visible from the side
- Light, only 1/2 of the weight of similar products

Model	Order Number	Maximum Working pressure	Flow Rate (L/min)	Fuel tank capacity (L)	Overall Dimensions (mm)	Weight (kg)
BPV-1500	S01-030200003	150	0.25	3.5	340x320x380	15.5
BPV-2200	S01-030200001	220	0.35	6.0	380x360x380	23.5
BPV-3500	S01-030200004	350	0.52	8.0	490x430x480	31.6

RP-C Large Capacity Electric Hydraulic Pump



- Electric (380). Two-stage electric pump, can be configured with the electromagnetic remote reversing function
- Self-balancing hand directional control valve, large flow rate, large oil tank, an optional vehicle for easy movement
- Can be configured with an integrated or separate distributor to achieve synchronous 2-8 way operation of hydraulic tools such as hydraulic jacks

Model	Order Number	Pressure(bar)		Flow Rate(L/min)		Reversing direction	Power Supply	Power (kW)	Usable Oil Volume (L)	Weight (kg)
		first stage	second stage	first stage	second stage					
RP-C-220	S01-020200002	60	700	6	1.1	electro-magnetism	220V	1.5	20	39
RP-C-380	S01-020200003	60	700	6	1.1	manual	380V	1.5	20	39

PT Series Synchronous Electric Hydraulic Pump



- Valve controlled automatic balancing
- The most advanced technology in the field of ultra-high pressure in Germany
- Auto zeroing function
- Adopting ultra-high pressure balancing valve circuit, synchronization precision up to $\pm 2\%$
- Vehicle-mounted design, convenient for movement in construction
- Double-speed output, quick reset of piston rod

Applications of synchronization control

- Bridge jacking
- Lifting of heavy equipment
- Ship hull jacking
- Demoulding
- Structural testing
- Lifting and weight measurement of oil well platform
- Synchronous pressing
- Horizontal load movement

Suitable for synchronous lifting of heavy objects in industries such as transportation, railways, bridges, subways, shipbuilding, construction, hydraulic engineering, etc

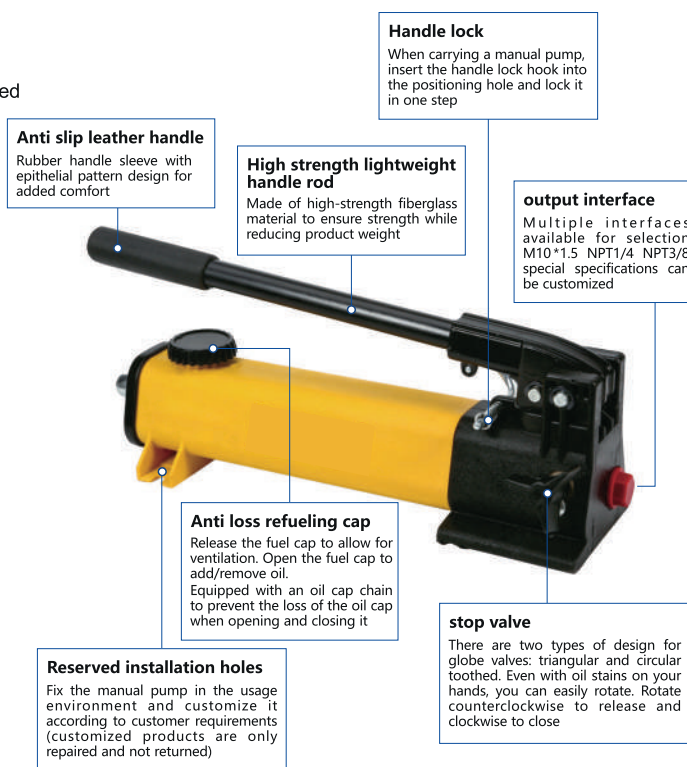
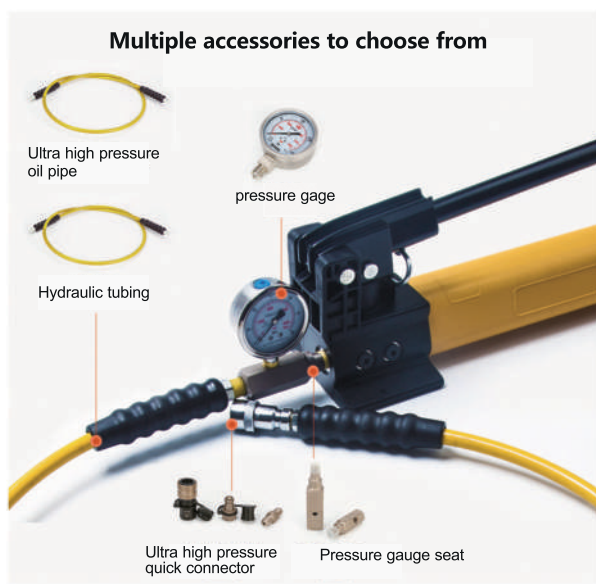


Model	Order Number	Pressure (Mpa)	Flow Rate (L/min)	Number of Synchronous Circuits	Usable Oil Volume (L)	Power (kW)	Power Supply	Reversing Method	Weight (kg)
PT-4	S01-020700002	70	0.5x4	4	70	3	380V/50Hz	manual reversing	80
PT-6	S01-020700008		1.15x6	6	90	4			100
PT-8	S01-020700006		2.5x8	8	120	5.5			120

■ The oil volume, flow rate and power can be selected according to the customer's requirements. Please contact Loquen sales engineer

Light Manual Pump

- Lockable handle, lightweight and easy to carry.
- Durable reinforced engineering plastic oil tank and nylon-encapsulated aluminum pump body, strong corrosion resistance.



Model	Order Number	Manual pump type	Available oil quantity (cm ³)	Rated pressure (bar)	Overall dimensions (mm)	Maximum force of handle (N)
P-141	S01-010100009	single speed	328	700	340X110X160	343
P-391	S01-010100019	double speed	901		540X120X190	420
P-392	S01-010400012	double speed	2540		660X150X190	420

Double Acting Manual Pump



Model	Order Number	Housing type	Available oil (cm ³)	Rated pressure (bar)	Overall dimensions (mm)	Maximum force of handle (N)
P-392S	S01-010100016	plastics	1000	700	600X120X190	420
P160S	S01-010100018	metal	3000		640X185X450	450

Corrosion Resistant Aluminum Manual Pump



- High and low pressure two-stage design, quick oil output, convenient operation even without electricity.
- Manual operation, the hose can be lengthened, with a quick connector, and a pressure gauge can be installed (optional).
- The pressure can be kept in the middle of the stop, and a high-pressure safety protection hydraulic valve is designed inside.
- The pump head is made of aviation aluminum alloy profiles.

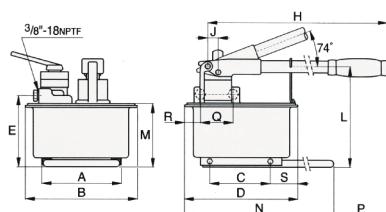
Model	Order Number	Available oil (cm ³)	Rated pressure(bar)		Oil discharge per stroke (cm ³)		Weight (kg)	Maximum force of handle (N)
			First Section	Second Section	First Section	Second Section		
P-392NF	S01-010100011	1000	20	700	13	2.3	5.7	420

Steel Manual Pump



- High and low pressure two-stage design, quick oil output, convenient operation even without electricity.
- Manual operation, the hose can be lengthened, with a quick connector, and a pressure gauge can be installed (optional).
- The pressure can be kept in the middle of the stop, and a high-pressure safety protection hydraulic valve is designed inside.
- Under any working pressure, its function is the same as that of an electric type.

Model	Order Number	Usable Oil Volume (cm ³)	Rated Pressure (bar)		Oil discharge per stroke (cm ³)		Weight (kg)	Maximum Handle Force (N)
			First Section	Second Section	First Section	Second Section		
P-80	S01-010200003	2200	20	700	13	2.3	13.5	400

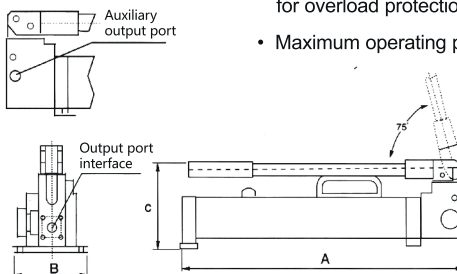


- Dual speed operation can reduce the operator's labor intensity.
- Equipped with a 4-way valve, it can be used to operate large tonnage hydraulic lifting jacks.
- Built in safety valve for overload protection.
- The fuel tank has a large capacity and can be matched with a wide range of jacks and tools.



Model	Order Number	Usable Oil Volume (cm ³)	Rated Pressure (bar)		Oil discharge per stroke (cm ³)		Weight (kg)	Maximum Handle Force (N)
			First Section	Second Section	First Section	Second Section		
P-462	S01-010100020	7423	14	700	126.20	4.75	28	300
P-464	S01-010100008	7423	14	700	126.20	4.75	32	400

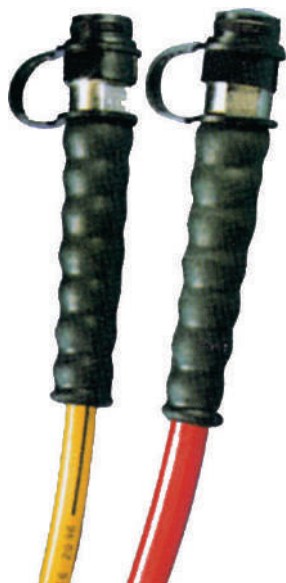
Ultra High Pressure Manual Pump



- Light, high strength, strong corrosion resistance, suitable for various harsh environments
- Adjust the relief valve to precisely set the pressure. Built-in safety valve for overload protection
- Maximum operating pressure up to 4000 bar, double-speed design

Model	Order Number	Operating Pressure (MPa)		Oil Displacement Per Stroke (cm ³)		Oil Tank Volume	Usable Oil Volume	Maximum Handle Force (N)	Overall Dimensions (mm)			Weight (kg)	Output Port	Pressure Gauge Interface
		Low Pressure	High Pressure	Low Pressure	High Pressure				A	B	C			
HP-100	S01-010300004	1.5	100	32	2.5	1670	1440	350	577	140	170	10.0	1/4" BSP	1/2" BSP 1/4" NPT
HP-150	S01-010400001	1.5	150	32	0.9	1670	1440	400	577	120	170	6.3	1/4" BSP	1/2" BSP
HP-200	S01-010300003	1.5	200	32	0.9	1670	1440	400	577	120	170	8.0	1/4" BSP	1/2" BSP
HP-280	S01-010300001	1.5	280	32	0.9	1670	1440	400	577	120	170	10.0	1/4" BSP	1/2" BSP
HP-400	S01-010300002	2.0	400	32	0.9	1670	1440	450	577	120	170	10.0	1/4" BSP	1/2" BSP

High Pressure Hose

**Polyurethane hose special for ultra-high pressure (600 series)**

- Operating pressure 180MPa
- For ultra-high pressure applications such as bolt tensioners

Thermoplastic polyurethane hoses (700 series)

- Operating pressure 70MPa
- Used for hydraulic wrenches, hydraulic jacks and similar occasions
- Four-layer design, with two layers of high-strength steel wires





Scope of Application	Tensioner/ Hydraulic Nuts	Order Number	Hydraulic Wrench/Jack	Order Number
Length(m)	600 Series		700 Series	
2	H602	F09-010200020	H702	F09-010100002
4	H604	F09-010200024	H704	
6	H606	F09-010200019	H706	
9	H609	F09-010200017	H709	

■ High pressure hoses of various lengths are available. Please contact Loquen sales engineer.

C/CT Series Quick Connector






**Quick connection for hydraulic pipes**

- High pressure flush-face connectors
- Features "push/connect" operation
- Suitable for medium load applications
- Loquen's quick connectors have plastic or alloy caps to protect hydraulic components against harsh environments

Maximum Operating Pressure (bar)	Connector Type	Complete Kit Model	Female Connector	Male Connector	Connector Size (inch)	Dust Cap
700	 Large flow connector	C-604	CR-400	CH-604	3/8 " NPT	(2X) CD-411 Included
700	 Large flow quick connector	CT901	C901	T901	1/4 " NPT	(2X) CD-411 Included
1000	 Ultra-high pressure quick connector	CT115	C115	T115	G1/4	Z-410 Included
1500	 Ultra-high pressure quick connector	CT116	C116	T116	G1/4	Z-640 Included on the female connector

Heavy Duty Sockets



Loquen offers various standard sockets for different working conditions, and also customizes special sockets for customers						
Applicable Bolts	Drive Shaft Size	Type A	Type B	Type C	Type D	Type K
M16-M48	1 "	A25M-	B25M-	C25M-	D25M-	K46S-
M20-M60	1 ½ "	A38M-	B38M-	C38M-	D38M-	K65S-
M24-M72	2 "	A51M-	B51M-	C51M-	D51M-	K80S-
M48-M100	2 ½ "	A64M-	B64M-	-	D64M-	K115S-
M64-M125	3 "	A76M-	-	-	D76M-	K155S-

GP/GF Series Silicone Oil Filled Pressure Gauge



Window for hydraulic system

- Scale in psi, bar or MPa for easy reading
- Size of pressure gauge dial is 100mm

Pressure gauge connector

- For easy connection of the gauge to almost any system
- Loquen offers a complete range of pressure gauge adapters



Original Hydraulic Oil



- Maximum internal heat transfer
- Additives to prevent rust, oxidation and sludge
- High viscosity index

Capacity (L)	Model
2	HF-02
5	HF-05
20	HF-20
400	HF-400

Oil Distributor

Product Picture	Product Description	Model
	178 mm, multi-way connector with 7 female ports	A-64
	356 mm, multi-way connector, allowing direct installation of a control valve on it, with 7 female ports	A-65
	6-port hexagonal multi-way connector with 6 connections, all 1/4 "-18NPTF ports with plugs	A-66

Comparison Table for Bolt Specifications And Torque

- The following are German industrial standards. The torque in the table is measured when the bolt reaches 70% of its yield limit
- The recommended tightening torque value is: The value in the table x (70~80)%
For example: M48, Grade 8.8 bolt, the tightening torque is 3920 x 80% = 3136 Nm
- The loosening torque is 1.5-2.5 times of the tightening torque.
For example, if the tightening torque of the above example is 3136 Nm, the loosening torque will be 3136 x (1.5-2.5) = 4704 -7840 Nm



Determine the maximum torque for the wrench according to the size and strength grade of the bolts and nuts. With regard to specific connections, refer to the use parameters of the workpiece manufacturer

Hexagon size S (mm)	Thread size D (mm)	Hexagon size J (mm)	Hexagon size S (mm)	Thread size D (mm)	Hexagon size J (mm)
17	M10	8	1 1/16"	5/8"	1/2"
19	M12	10	1 1/4"	3/4"	5/8"
22	M14	12	1 7/16"	7/8"	3/4"
24	M16	14	1 5/8"	1"	3/4"
27	M18	14	1 13/16"	1 1/8"	7/8"
30	M20	17	2"	1 1/4"	7/8"
34	M22	17	2 3/16"	1 3/8"	1"
36	M24	19	2 3/8"	1 1/2"	1"
41	M27	19	2 9/16"	1 5/8"	-
46	M30	22	2 3/4"	1 3/4"	1 1/4"
50	M33	24	2 15/16"	1 7/8"	1 3/8"
55	M36	27	3"	2"	1 1/2"
60	M39	27(30)	3 1/8"	2"	1 5/8"
65	M42	32	3 3/8"	2 1/4"	1 3/4"
70	M45	-	3 1/2"	2 1/4"	1 3/4"
75	M48	36	3 3/4"	2 1/2"	1 3/4"
80	M52	36	3 7/8"	2 1/2"	1 7/8"
85	M56	41	4 1/8"	2 3/4"	2"
90	M60	46	4 1/4"	2 3/4"	2"
95	M64	46	4 5/8"	3"	2 1/4"
100	M68	50	5"	3 1/4"	2 1/4"
105	M72	55			
110	M76	60			
115	M80	65			
120	M85	70			
130	M90	70(75)			
135	M95	-			
145	M100	85			
150	M105	-			
155	M110	-			
165	M115	-			
170	M120	-			
180	M125	-			
185	M130	-			
200	M140	-			
210	M150	-			

Strength Grade		4.8	6.8	8.8	10.9	12.9
Minimum Breaking Strength		392Mpa	588Mpa	784Mpa	941Mpa	1176Mpa
Material		steel for general construction	steel for machinery construction	CrAl alloy steel	Ni-Cr-Mo alloy steel	Ni-Cr-Mo alloy steel
Bolt	Nut A / F	Torque Value (Nm)	Torque Value (Nm)	Torque Value (Nm)	Torque Value (Nm)	Torque Value (Nm)
M14	22	69	98	137	165	225
M16	24	98	137	206	247	353
M18	27	137	206	284	341	480
M20	30	176	296	402	480	569
M22	34	225	333	539	765	911
M24	36	314	470	686	981	1176
M27	41	441	637	1029	1472	1764
M30	46	588	882	1225	1962	2352
M33	50	735	1127	1470	2060	2450
M36	55	980	1470	1764	2453	2940
M39	60	1176	1764	2156	2943	3626
M42	65	1519	2352	2744	3826	4606
M45	70	1764	2744	3136	4415	5390
M48	75	2254	3430	3920	5592	6664
M52	80	2744	4116	4704	6573	8330
M56	85	3528	5149	5978	8437	10290
M60	90	4018	5978	7742	10780	13230
M64	95	4998	7448	8820	12600	-
M68	100	5684	8526	10780	15400	-
M72	105	6468	9800	12642	18060	-
M76	110	7350	10780	14700	21000	-
M80	115	8143	12250	18130	25900	-
M85	120	8820	13720	22050	31500	-
M90	130	10584	16170	24500	35000	-
M100	145	13720	20090	-	-	-
M110	155	16366	24990	-	-	-
M120	175	19894	29890	-	-	-



Heavy duty sleeves must conform to:
ISO2725, ISO1174, DIN3129,
DIN3121, ASME-B107.2/1995



When selecting a wrench, be sure to note the loosening torque

Loquen

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