



BOLTING®

HYDRAULIC-TORQUE TOOLS-MACHINERY EQUIPMENT

Torque Tools, Tensioner Tools, Hydraulic Tools



DIRECTORY

Electric Torque Tools		
	Digital Electric Torque Wrenches	01
	Digital Precision Electric Torque Wrenches	03
	Digital Cordless Torque Wrenches	07
	Digital Impact Cordless Torque Wrenches	11
	Lightweight Digital Cordless Torque Wrenches	13
Pneumatic Torque Tools		
	Pneumatic Torque Wrenches	14
	Pneumatic Torque Wrenches - Digital Control System	15
	Pneumatic Impact Wrenches - Digital Torque Control System	17
Mechanical Components		
	Special Reaction Arms	18
	Offset Drive	19
	Lightweight Planetary Gearboxes	21
	Super Nuts	23
	Super Bolt / Nut Tightening Tools	24
Hydraulic Torque Tools		
	Square Drive Hydraulic Torque Wrenches	25
	Hollow Hydraulic Torque Wrenches	27
	Super Thin Hydraulic Torque Wrenches	29
	Super Thin Notch Hydraulic Torque Wrenches	31
Hydraulic Tensioner Tools		
	Gravity Return Hydraulic Tensioners	33
	Spring Return Hydraulic Tensioners	34
	Interchange Hydraulic Tensioners	35
	Multi Stage (wind power) Hydraulic Tensioners	39
	Special Hydraulic Tensioner Project Case	40

Hydraulic Repair Tools		
	Hydraulic Lifting Cylinders	41
	Mobile Hydraulic Lifting Cylinders	51
	Flange Separators	52
	Vehicle Mounted Hydraulic Pullers	53
	Workshop Hydraulic Presses	55
	Hydraulic Nut Splitters	57
Hydraulic Pumps		
	Hydraulic Torque Pumps	58
	Hydraulic Tensioner Pumps	64
	Hydraulic Cylinder Pumps	66
Accessories		
	Sockets and Hexagon Reducers	71
	Hydraulic Hoses	74
	Hydraulic Couplers	75
	Backup Wrenches	76

Company Information

Boting Machinery (Shanghai) Co., Ltd. is a professional company engaged in the design, development and manufacturing of industrial complete systems and bolt tools. It is headquartered in Shanghai, known as the Paris of the East.Boting is a professional enterprise that manufactures torque tools and hydraulic tools after years of technology accumulation. It has a complete set of testing and processing equipment, including ultrasonic flaw detectors. hardness tester, smoothness tester, three coordinate measuring instrument, dynamic torque tester, gear testing center and other series of testing instruments.

Boting leads the world's advanced industrial technology and tooling equipment to large-scale industries such as power generation, locomotives, steel, natural gas transmission, petrochemicals and offshore oil exploration. Industrial enterprises provide various high-efficiency and energy-saving solutions. Main products:

1. Electric torque wrench, pneumatic torque wrench, servo precision torque wrench, lithium battery torque wrench, impact electric/pneumatic fixed torque wrench, hydraulic torque wrench,planetary gearbox (for torque wrenches) and other series of torque tools.

2. Hydraulic tensioner, large-tonnage and long-stroke cylinders, PLC controlled synchronous jacking systems, vehicle-mounted hydraulic pullers, mobile hydraulic lathes, hydraulic presses, etc. Hydraulic Tools.

3.Electric hydraulic pumps, pneumatic hydraulic pumps, explosion-proof electric hydraulic pumps, digital display intelligent hydraulic pumps, large-flow servo motor hydraulic pumps and other supporting power source products.

You can be sure that the high-quality services (pre-sales, after-sales, customization) and innovative bolt technology products provided by our professionals are dedicated to meeting and exceeding Exceed customer needs. Obtained a number of utility model patents, invention patents and software copyrights, and passed ISO9001 quality management system certification.On-site services, purchase our products, torque calibration, or rent our tools and equipment, BOLTING will provide you with more convenient and effective industrial bolt technical services.

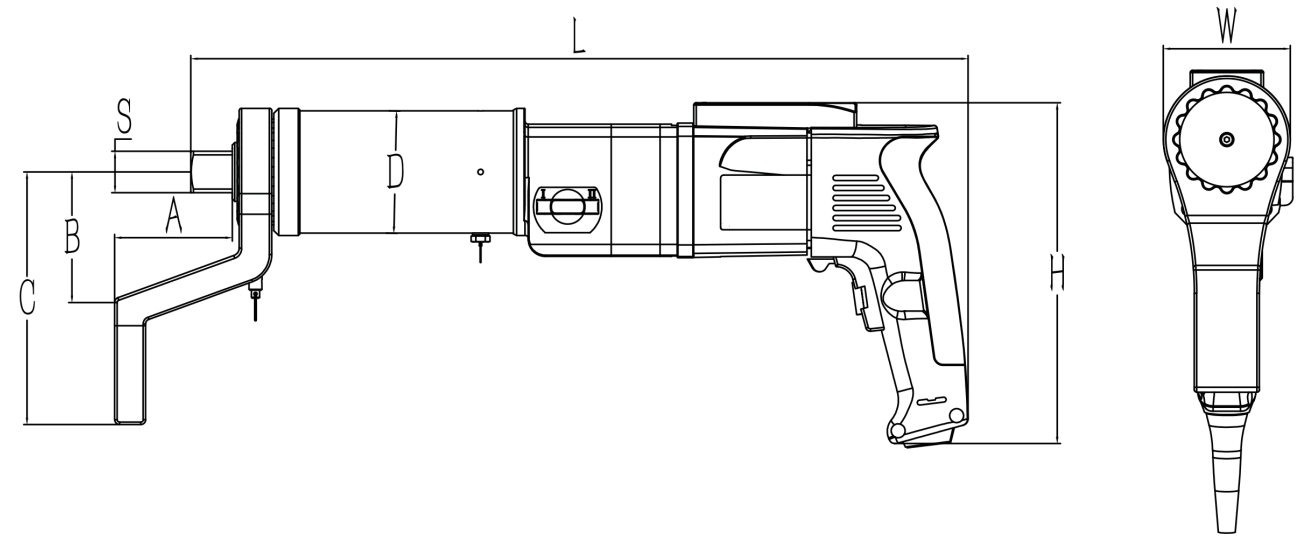


Digital Electric Torque Wrenches

- Dual-speed design, capable of switching between I/II speeds, corresponding to different speeds and torques;
- The power system can rotate 360 degrees, and the memory-type mechanical locking system has no reactive force acting on the handle, which can prevent personal injury caused by mechanical failure;
- Spring type reaction arm can be quickly removed and replaced, improving work efficiency;
- The minimum resolution can reach 1N.m and factory accuracy reaches $\pm 5\%$. The repeatability accuracy is $\pm 3\%$, and the accompanying traceability torque verification report is provided;
- It will automatically stop when the set torque is reached, and the tightening result is informed by visual signal light and buzzer;
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- Standard configuration: torque, bolt, and gear preset modes;
- The body can store 10,000 pieces of fastening data, which can be connected to the device through Type-C to monitor and export fastening data (workstation, operator, torque, and date), and achieve reversible data query;
- Optional: angle mode and sensor mode;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;



Digital Electric Torque Wrenches



Model	Torque (N.m)	Drive Shaft S (Inch)	Speed (Rpm)	L (mm)	H (mm)	D (mm)	A (mm)	B (mm)	C (mm)	Weight (Kg)
ETW07	100-700	3/4"	22.8	385	210	75	50	54	110	6.1
ETW10	140-1000	3/4"	14.5	405	210	88	65	65	130	6.5
ETW21	300-2100	1"	6.4	430	210	75	75	75	150	8.5
ETW30	430-3000	1"	4.8	440	210	88	80	83	160	8.9
ETW40	570-4000	1"	3.4	450	210	95	80	83	160	12.5
ETW50	715-5000	1-1/2"	3.4	450	210	95	80	83	160	12.5
ETW60	850-6000	1-1/2"	2.6	490	210	122	90	90	180	14.8
ETW70	1000-7000	1-1/2"	2.6	490	210	122	90	90	180	14.9
ETW80	1150-8000	1-1/2"	2.0	550	210	136	100	95	200	16.5
ETW100	1450-10000	1-1/2"	1.6	550	210	136	100	95	200	16.8
ETW120	1750-12000	1-1/2"	1.3	550	210	136	100	95	200	16.9

Digital Precision Electric Torque Wrenches

- The minimum resolution can reach 1N.m and factory accuracy reaches $\pm 3\%$. The repeatability accuracy is $\pm 3\%$, and the accompanying traceability torque verification report is provided. The TS version with torque sensor can achieve an accuracy of $\pm 1\%$;
- The power system can rotate 360 degrees, and the memory-type mechanical locking system has no reactive force acting on the handle, which can prevent personal injury caused by mechanical failure;
- Spring type reaction arm can be quickly removed and replaced, improving work efficiency;
- After tightening, it can automatically rollback, making it easy to remove the wrench;
- Lightweight and reliable ergonomic gun grip, increasing user comfort;



- The STW-CS series controller provides a simple and easy-to-use operating interface for all STW tools, allowing torque to be set through the human-machine interface, making operation simpler and more convenient;
- Workstations, operators, torque, and dates can be edited, and fastening data can also be exported via USB;
- It will automatically stop when the set torque is reached, and the tightening result is informed by visual signal light and buzzer;
- The counter calculates the number of times it has been used in real-time and maintenance times is set for automatic reminder, making it clear whether maintenance is needed immediately;
- There are three modes to choose from: torque mode, angle mode, and torque plus angle mode;
- Optional: Transmission system with torque sensor, capable of achieving dual closed-loop control of torque and angle, with TS added to the model;
- Support communication methods such as MODBUS and PROFIBUS, and can also add wireless communication modules to achieve management of IOT connection between upper computer and MES system;



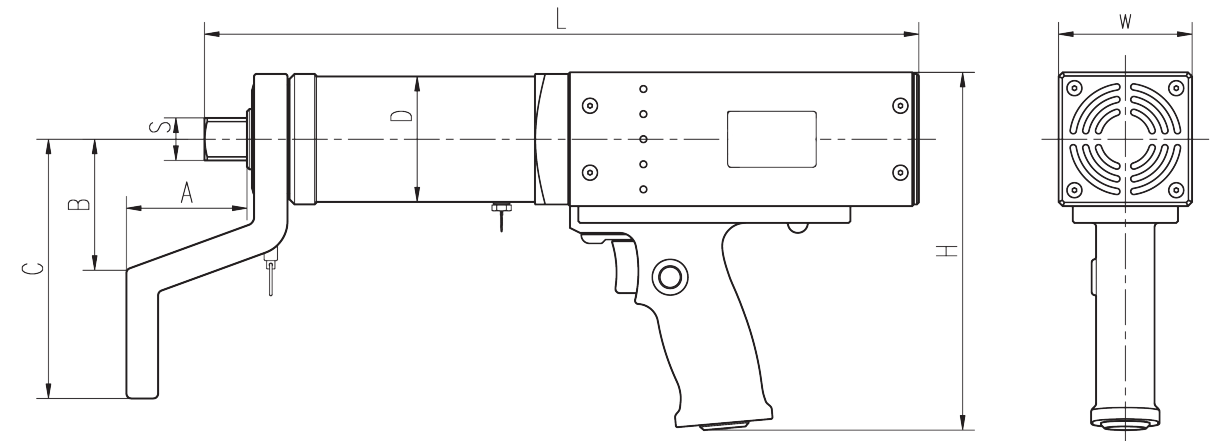
Digital Precision Electric Torque Wrenches



Digital torque module (optional)



Digital torque module (optional)

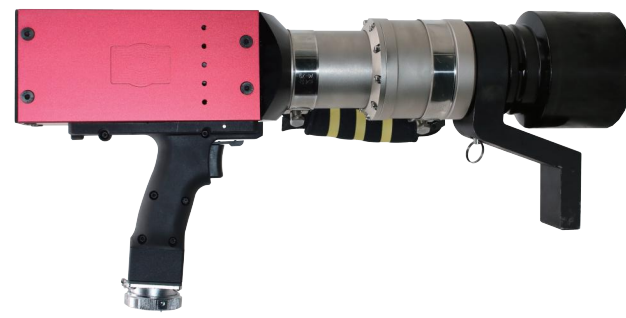


Model	Torque (N.m)	Drive Shaft S (Inch)	Speed (Rpm)	L (mm)	H (mm)	D (mm)	A (mm)	B (mm)	C (mm)	Weight (Kg)
STW01	7-50	1/2"	58.6	325	210	75	45	45	90	6.6
STW03	35-250	3/4"	49.2	335	210	75	50	54	110	7.1
STW07	100-700	3/4"	32.4	385	210	75	50	54	110	8.1
STW10	140-1000	3/4"	20.6	405	210	88	65	65	130	8.5
STW21	300-2100	1"	9.1	430	210	75	75	75	150	10.5
STW30	430-3000	1"	7.4	440	210	88	80	83	160	10.9
STW40	570-4000	1"	4.8	450	210	95	80	83	160	14.5
STW50	715-5000	1-1/2"	4.8	450	210	95	80	83	160	14.5
STW60	850-6000	1-1/2"	3.7	490	210	122	90	90	180	16.8
STW70	1000-7000	1-1/2"	3.7	490	210	122	90	90	180	16.8
STW80	1150-8000	1-1/2"	2.5	550	210	136	100	95	200	18.5
STW100	1450-10000	1-1/2"	2.3	550	210	136	100	95	200	18.8
STW120	1750-12000	1-1/2"	1.8	550	210	136	100	95	200	18.9

High Speed Digital Precision Electric Torque



STW21H



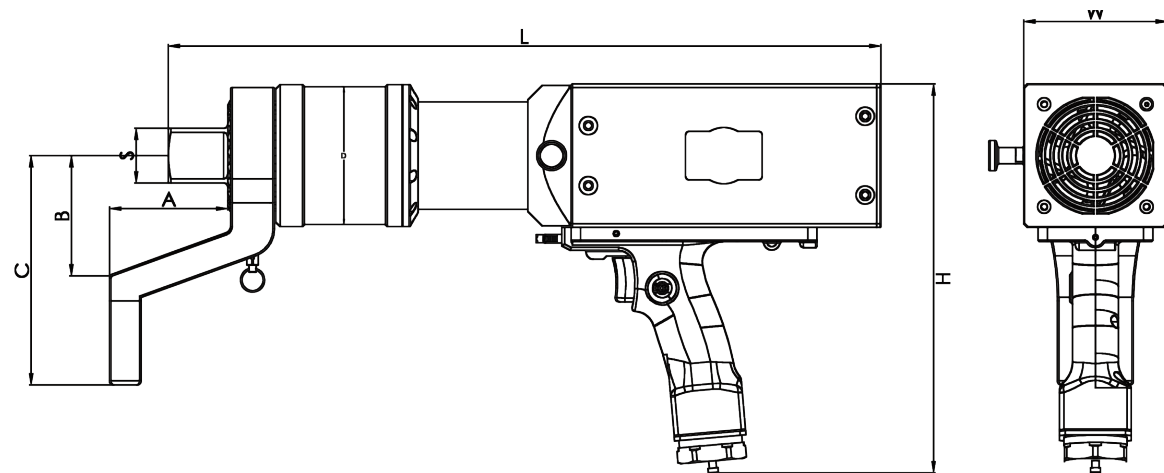
STW60H



Digital torque module (optional)



Digital torque module (optional)



Model	Torque (N.m)	Drive Shaft S (Inch)	No-load speed (Rpm)	L (mm)	H (mm)	D (mm)	A (mm)	B (mm)	C (mm)	W (mm)	Weight (Kg)
STW21H	300-2100	1"	18	435	260	75	75	75	150	105	10.5
STW30H	450-3000	1"	15	445	260	88	80	83	160	105	11.5
STW45H	600-4500	1-1/2"	7.4	455	260	95	80	83	160	105	14.5
STW60H	850-6000	1-1/2"	5.6	495	260	95	90	90	180	105	15.0
STW80H	1150-8000	1-1/2"	4.5	550	260	122	100	95	200	105	18.5
STW100H	1450-10000	1-1/2"	5.5	560	260	136	100	95	200	115	20.5
STW150H	2500-15000	1-1/2"	4.1	560	260	136	100	95	200	115	21.5

Digital Cordless Torque Wrenches

- Standard configuration includes 2 pieces of 18V, 5Ah lithium batteries, and a fast charger that can be completed in 60 minutes, and optional configuration includes 8Ah and 12Ah batteries;
- Brushless motors are applicable for low explosion-proof situations and have strong and long-lasting power;
- The power system can rotate 360 degrees, and the memory-type mechanical locking system has no reactive force acting on the handle, which can prevent personal injury caused by mechanical failure;
- Spring type reaction arm can be quickly removed and replaced, improving work efficiency;
- The minimum resolution can reach 1N.m and factory accuracy reaches $\pm 5\%$. The repeatability accuracy is $\pm 3\%$, and the accompanying traceability torque verification report is provided;



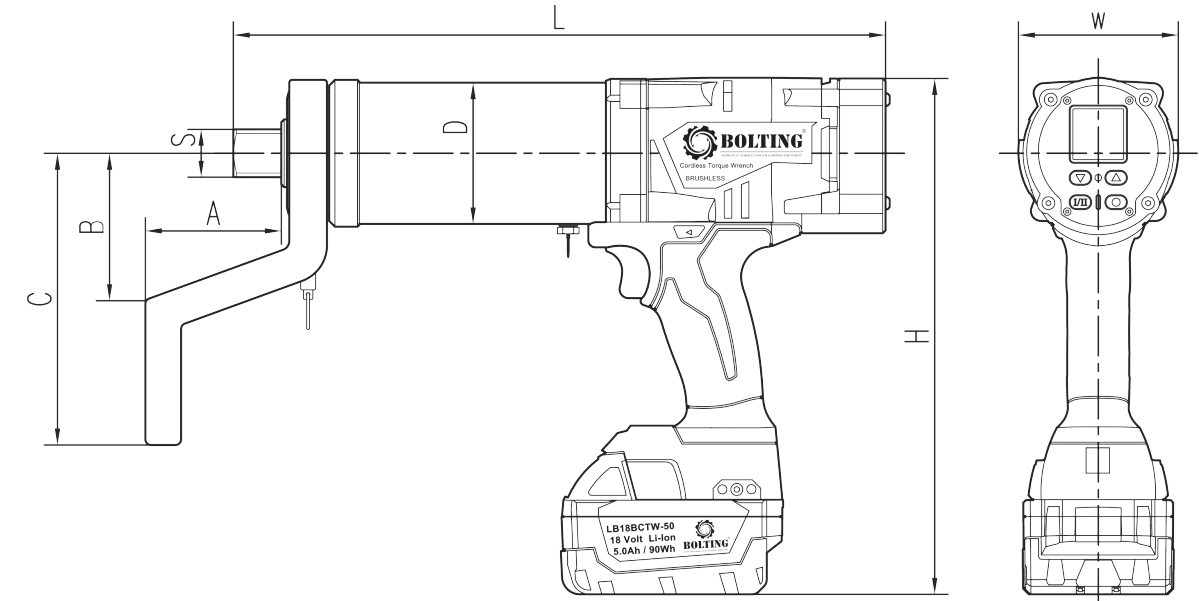
Operation interface (torque mode)



Operation interface (bolt mode)

- It will automatically stop when the set torque is reached, and the tightening result is informed by visual signal light and buzzer. After tightening, it can automatically rollback, making it easy to remove the wrench;
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- Standard configuration: torque, bolt, and gear preset modes;
- The body can store 10,000 pieces of fastening data, which can be connected to the device through Type-C to monitor and export fastening data (workstation, operator, torque, and date), and achieve reversible data query;
- Optional: angle mode and sensor mode;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;

Digital Cordless Torque Wrenches



Model	Torque (N.m)	Drive Shaft S (Inch)	Speed (Rpm)	L (mm)	H (mm)	D (mm)	A (mm)	B (mm)	C (mm)	Weight (Kg)
CTG04	125-450	3/4"	22.2	300	260	76	50	54	110	4.8
CTG07	125-700	3/4"	20	300	260	76	50	54	110	4.8
CTG10	180-1000	3/4"	14.1	320	260	88	65	65	130	5.3
CTG20	350-2000	1"	6.2	345	260	76	75	75	150	6.1
CTG30	500-3000	1"	5.0	355	260	88	80	83	160	7.4
CTG50	1000-5000	1-1/2"	2.0	385	260	96	80	83	160	9.5
CTG60	1000-6000	1-1/2"	2.0	385	260	96	80	83	160	9.8
CTG70	1200-7000	1-1/2"	1.5	425	260	122	90	90	180	14.6
CTG90	1500-9000	1-1/2"	1.0	425	260	122	100	95	200	14.9
CTG120	2000-12000	1-1/2"	1.5	467	285	136	100	95	200	17.2
CTG150	2500-15000	1-1/2"	1.0	467	285	136	100	95	200	17.5

Digital Brushless Electric Torque Wrenchs

- 100-240V wide voltage design, suitable for different countries and regions, and can also be used with 18V lithium batteries;
- Brushless motors are applicable for low explosion-proof situations and have strong and long-lasting power;
- The power system can rotate 360 degrees, and the memory-type mechanical locking system has no reactive force acting on the handle, which can prevent personal injury caused by mechanical failure;
- Spring type reaction arm can be quickly removed and replaced, improving work efficiency;



BCTG10



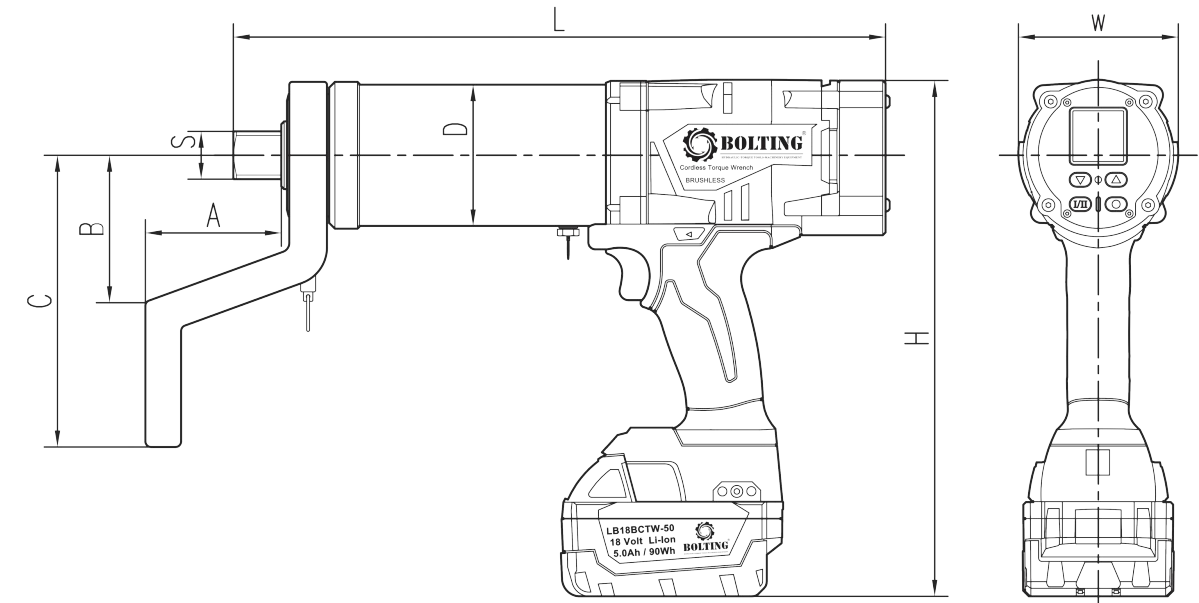
Operation interface (torque mode)



Operation interface (bolt mode)

- The minimum resolution can reach 1N.m and factory accuracy reaches $\pm 5\%$. The repeatability accuracy is $\pm 3\%$, and the accompanying traceability torque verification report is provided;
- It will automatically stop when the set torque is reached, and the tightening result is informed by visual signal light and buzzer. After tightening, it can automatically rollback, making it easy to remove the wrench;
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- Standard configuration: torque, bolt, and gear preset modes;
- The body can store 10,000 pieces of fastening data, which can be connected to the device through Type-C to monitor and export fastening data (workstation, operator, torque, and date), and achieve reversible data query;
- Optional: angle mode and sensor mode;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;

Digital Brushless Electric Torque Wrenchs



Model	Torque (N.m)	Drive Shaft S (Inch)	Speed (Rpm)	L (mm)	H (mm)	D (mm)	A (mm)	B (mm)	C (mm)	Weight (Kg)
BCTG04	125-450	3/4"	22.2	300	260	76	50	54	110	4.8
BCTG07	125-700	3/4"	20	300	260	76	50	54	110	4.8
BCTG10	180-1000	3/4"	14.1	320	260	88	65	65	130	5.3
BCTG20	350-2000	1"	6.2	345	260	76	75	75	150	6.1
BCTG30	500-3000	1"	5.0	355	260	88	80	83	160	7.4
BCTG50	1000-5000	1-1/2"	2.0	385	260	96	80	83	160	9.5
BCTG60	1000-6000	1-1/2"	2.0	385	260	96	80	83	160	9.8
BCTG70	1200-7000	1-1/2"	1.5	425	260	122	90	90	180	14.6
BCTG90	1500-9000	1-1/2"	1.0	425	260	122	100	95	200	14.9
BCTG120	2000-12000	1-1/2"	1.5	467	285	136	100	95	200	17.2
BCTG150	2500-15000	1-1/2"	1.0	467	285	136	100	95	200	17.5

Digital Impact Cordless Torque Wrenches

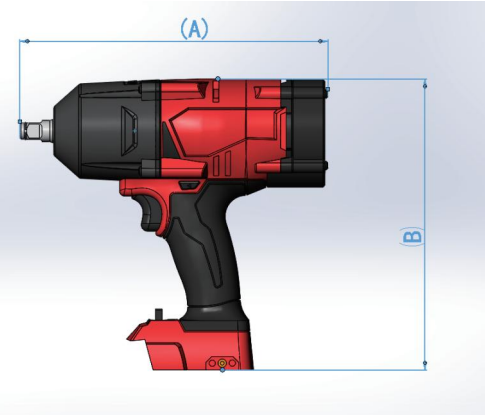
- Standard configuration includes 2 pieces of 18V, 5Ah lithium batteries, and a fast charger that can be completed in 60 minutes, and optional configuration includes 8.0Ah and 12.0Ah batteries;
- Brushless motors are applicable for low explosion-proof situations and have strong and long-lasting power;
- The lightweight composite material body can absorb vibrations well and also protect handle from cold damage, with light weight and high efficiency;
- High torque without the need for a reaction arm, with strong spatial applicability;
- The factory accuracy reaches $\pm 5\%$. The repeatability accuracy is $\pm 3\%$, and the accompanying traceability torque verification report is provided;
- It will automatically stop when the set torque is reached, and the tightening result is informed by visual signal light and buzzer;
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- Standard configuration: torque, bolt, and gear preset modes;
- The body can store 10,000 pieces of fastening data, which can be connected to the device through
- Type-C to monitor and export fastening data (workstation, operator, torque, and date), and achieve reversible data query;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;



IBTW02



IBTW02



Model	Torque (N.m)	Input Square (Inch)	No-load Speed (Rpm)	H (mm)	D (mm)	B (mm)	C (mm)	Weight (Kg)
IBTW005	13-65	3/8"	2400	153	153	3200	96	1.5
IBTW01	28-140	1/2"	2400	153	153	3500	96	1.9
IBTW02	50-250	1/2"	1800	245	245	2100	101.5	3.3
IBTW03	65-330	3/4"	1800	255	255	2400	101.5	3.6
IBTW04	90-450	1"	1650	353	353	2500	96	5.0

Lithium battery impact wrench with added digital display control (not a case study, images only for display purposes)



3/8" lithium impact wrench



3/8" lithium impact wrench



3/8" lithium impact wrench



3/8" lithium impact wrench



1/4" lithium impact wrench



1/2" lithium impact wrench



1/2" lithium impact wrench



1/2" lithium impact wrench



1/2" lithium impact wrench



1/2" lithium impact wrench



3/4" lithium impact wrench



36V lithium impact wrench



1/2" lithium impact wrench



3/4" lithium impact wrench



3/4" lithium impact wrench

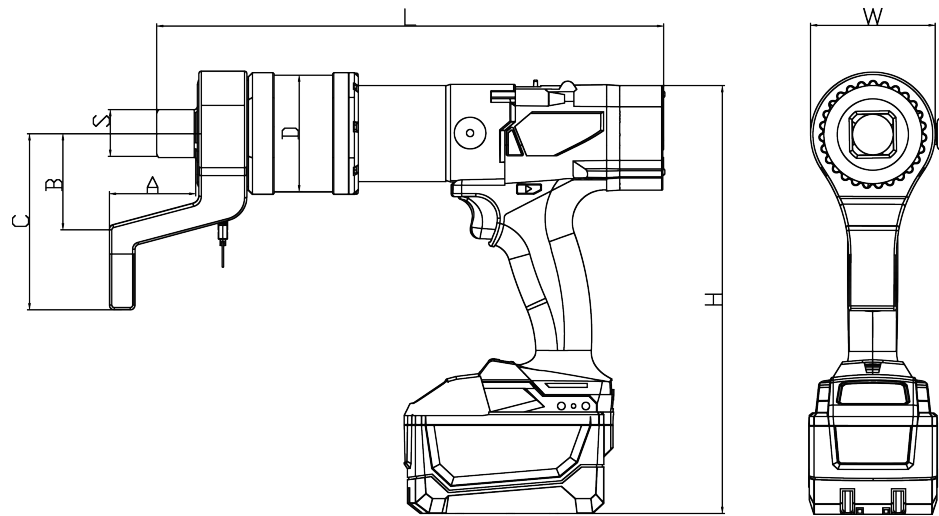
Lightweight Digital Cordless Torque Wrenches



CTW25



Operation interface (torque mode)



Model	Torque (N.m)	Drive Shaft S (Inch)	Speed (Rpm)		L (mm)	H (mm)	D (mm)	A (mm)	B (mm)	C (mm)	Weight (Kg)
			1	2							
CTW04	100-400	3/4"	6.3	26.5	265	240	60	50	54	110	3.1
CTW07	140-700	3/4"	6.3	25.5	265	240	60	50	54	110	3.1
CTW12	240-1200	3/4"	3.6	15.2	290	240	76	75	75	150	3.4
CTW25	500-2500	1"	1.6	7.5	316	240	76	75	75	150	3.6
CTW35	700-3500	1"	1.2	4.7	332	240	88	80	83	160	4.8
CTW45	900-4500	1-1/2"	0.9	4.5	348	240	88	80	83	160	5.0
CTW80	1600-8000	1-1/2"	0.4	1.9	384	240	122	100	95	200	9.7
CTW100	2000-10000	1-1/2"	0.4	1.7	384	240	122	100	95	200	9.8
CTW120	2400-12000	1-1/2"	0.3	1.3	384	240	122	100	95	200	9.9

Pneumatic Torque Wrenches

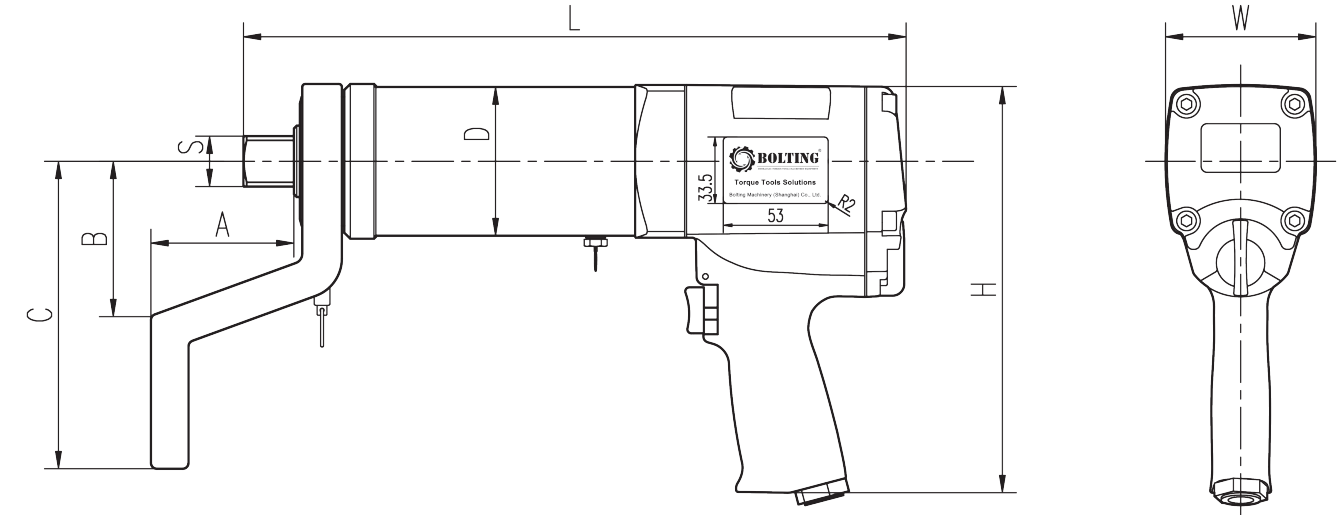
- Lightweight, 7-blade high-performance pneumatic motor with high efficiency;
- The power system can rotate 360 degrees, and the memory-type mechanical locking system has no reactive force acting on the handle, which can prevent personal injury caused by mechanical failure;
- Low noise, non-impact type, and low vibration frequency ensure safe and comfortable tool use;
- Spring type reaction arm can be quickly removed and replaced, improving work efficiency;
- The factory accuracy reaches $\pm 5\%$. The repeatability accuracy is $\pm 3\%$, and the accompanying traceability torque verification report is provided;



PTW05 - PTW18



PTW60



Model	Torque (N.m)	Drive Shaft S (Inch)	Speed (Rpm)	L (mm)	H (mm)	D (mm)	A (mm)	B (mm)	C (mm)	Weight (Kg)
PTW05	100-500	3/4"	31.6	295	210	75	50	54	110	6.1
PTW08	160-800	3/4"	20.2	315	210	88	65	65	130	6.5
PTW18	360-1800	1"	8.9	340	210	75	75	75	150	7.5
PTW25	500-2500	1"	8.9	340	210	75	75	75	150	8.5
PTW30	600-3000	1"	6.6	350	210	88	80	83	160	8.9
PTW40	800-4000	1"	4.7	360	210	95	80	83	160	12.5
PTW50	1000-5000	1-1/2"	4.7	360	210	95	80	83	160	12.7
PTW60	1200-6000	1-1/2"	3.6	375	210	122	90	90	180	14.8
PTW80	1600-8000	1-1/2"	2.4	460	210	136	100	95	200	16.8
PTW100	2000-10000	1-1/2"	2.2	465	210	136	100	95	200	16.9
PTW120	2400-12000	1-1/2"	1.7	465	210	136	100	95	200	17.2

Pneumatic Impact Wrenches - Digital Torque Control System

- The DICS series controller provides a simple and easy-to-use operating interface for all pneumatic tools, allowing torque to be set through mechanical knobs or buttons, making operation simpler and more convenient. It is applicable for pneumatic wrenches from various manufacturers, with a torque range of 3-1,375N.m;
- Subject to battery powered system, it is capable of continuous operation for more than 48 hours;
- The minimum resolution can reach 1N.m and factory accuracy reaches ± 5 . The repeatability accuracy is ± 3 , and the accompanying traceability torque verification report is provided;
- It will automatically stop when the set torque is reached, and the tightening result is informed by visual signal light and buzzer;
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- Standard configuration: torque, bolt, and gear preset modes;
- The body can store 10,000 pieces of fastening data, which can be connected to through Type-C or USB equipment to monitor and export fastening data (workstation, operator, torque, and date), and achieve reversible data query;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;



DAIW06

Model	Torque (N.m)	Drive Shaft S (Inch)	Speed (Rpm)	Pipe Dimensions (mm)	Vibration a/k* (m/s ²)	Air inlet Thread (Inch)	Noise Level (dbA)	Air Consumption (L/min)	Weight (Kg)
DAIW-002	4-20	1/4"	10000	10	4.8/0.9	1/2"	85	60	0.63
DAIW-007	13-65	3/8"	10000	10	4.9/1.0	1/2"	85	60	0.65
DAIW-012	23-115	3/8"	8000	10	7.6/1.2	1/2"	90	102	1.1
DAIW-02	45-225	1/2"	8000	10	9.1/1.4	1/2"	90	102	1.2
DAIW-03	56-280	1/2"	8000	10	8.6/1.3	1/4"	92	144	1.9
DAIW-032	50-250	1/2"	8000	10	8.6/1.3	1/4"	92	144	2
DAIW-06	110-550	3/4"	6500	13	11.1/1.5	3/8"	93	228	3.25
DAIW-066	100-500	3/4"	6500	13	11.1/1.5	3/8"	93	228	3.95
DAIW-08	156-780	1"	8000	13	8.6/1.3	3/8"	94	390	10.9
DAIW-086	150-750	1"	8000	13	8.3/1.3	3/8"	94	390	12.4
DAIW-10	210-1050	1"	8000	13	8.3/1.3	3/8"	94	500	15.4
DAIW-18	340-1700	1-1/2"	3600	13	9.3	3/8"	94	600	18

Can be matched for it (not a case study, images only for display purposes)



3/8" pneumatic impact wrench



1/2" pneumatic impact wrench



3/4"right angle impact wrench tool



1/2" pneumatic impact wrench



3/4" pneumatic impact wrench



1" pneumatic impact wrench



3/8"right angle impact wrench tool



1/2" pneumatic impact wrench



1-1/2" pneumatic impact wrench



3/8" pneumatic impact wrench



1/2" pneumatic impact wrench



3/4" pneumatic impact wrench



1/4" pneumatic impact wrench



1/2" pneumatic impact wrench



1" pneumatic impact wrench

Pneumatic Torque Wrenches - Digital Control System

- Subject to lithium battery powered system, it is capable of continuous operation for more than 48 hours;
- The minimum resolution can reach 1N.m and factory accuracy reaches $\pm 5\%$. The repeatability accuracy is $\pm 3\%$, and the accompanying traceability torque verification report is provided;
- It will automatically stop when the set torque is reached, and the tightening result is informed by visual signal light and buzzer.
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- Standard configuration: torque, bolt, and gear preset modes;
- The body can store 10,000 pieces of fastening data, which can be connected to through Type-C or USB equipment to monitor and export fastening data (workstation, operator, torque, and date), and achieve reversible data query;
- Optional: angle mode and sensor mode;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;
- It is applicable for single-speed or dual-speed pneumatic torque wrenches from various brand manufacturers, with a torque range of 50-15,000N.m;



Can be matched for it



Can be matched for it



Can be matched for it



Can be matched for it



Can be matched for it



Can be matched for it

Special Reaction Arms



Extended Reaction Arm



Sliding Reaction Arm (adjustable center distance)



Sliding Extension Rod (for wheel hub)



Elastic Extension Rod (for wheel hub)



Arc-shaped Reaction Arm



Reaction Arm (for wheels)



Pentagonal Reaction Arm (for wheels)



Pentagonal Reaction Arm (for impeller)

Offset Drives

Offset Drive (integrated type)

- Used in conjunction with electric and pneumatic torque wrenches and multipliers, with a bias ultra-thin design, applicable for axial space limited working conditions;
- With hollow structure, it can be used in situations where bolts extend longer or height space is limited;
- It is made of high-strength alloy materials, which is sturdy and durable, with a high-precision transmission system to ensure smooth and accurate transmission;
- Integrated structure is adopted, with higher strength and lighter weight;
- It is equipped with torque amplification function, customizable length/width/thickness/center distance, etc.;



ITOD02-65

Model	Maximum Torque (N.m)	Applicable Scope AF (mm)	Input Drive Shaft D (Inch)	Tooth Drum Diameter (mm)	A (mm)	E (mm)	H (mm)	Weight (Kg)
ITOD01	1500	17-36	3/4" or 1"	60/75	120	27	68	2.0
ITOD02	3000	30-60	3/4" or 1"	75	140	32	68	2.5
ITOD04	6000	41-80	1" or 1-1/2"	88/95	160	42	82	3.5
ITOD08	12000	50-90	1-1/2"	122/139	180	52	100	4.5

Offset Drive (split type)

- Used in conjunction with electric and pneumatic torque wrenches and multipliers, with a bias ultra-thin design, applicable for axial space limited working conditions;
- With hollow structure, it can be used in situations where bolts extend longer or height space is limited;
- It is made of high-strength alloy materials, which is sturdy and durable, with a high-precision transmission system to ensure smooth and accurate transmission;
- Capable of quickly replacing the work head without the need for special tools;
- It is equipped with torque amplification function, customizable length/width/thickness/center distance, etc.;



Model	Maximum Torque (N.m)	Applicable Scope AF (mm)	Input Drive Shaft D (Inch)	Tooth Drum Diameter (mm)	A (mm)	E (mm)	H (mm)	Weight (Kg)
STOD01	1500	17-36	3/4" or 1"	60/75	120	32	68	3.0
STOD02	3000	30-60	3/4" or 1"	75	140	36	68	3.5
STOD04	6000	41-80	1" or 1-1/2"	88/95	160	46	82	4.5
STOD08	12000	50-90	1-1/2"	122/139	180	57	100	6.3

Offset Drives



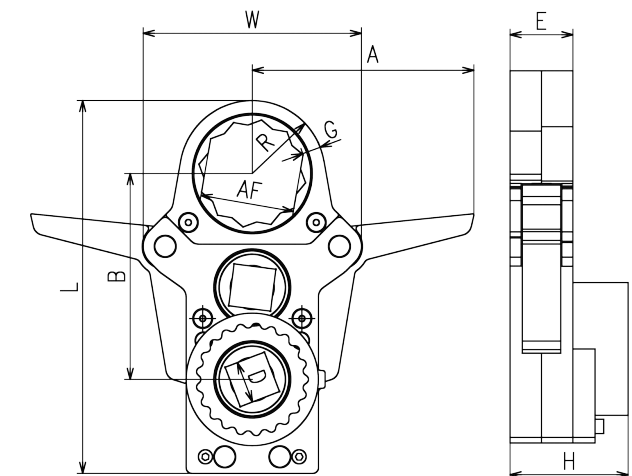
Offset Drive



Synchronous drive



Application Cases



Dimensional Drawing

Detailed dimensions:

OD01				OD02				OD04				OD08			
Model	W mm	R mm	G mm	Model	W mm	R mm	G mm	Model	W mm	R mm	G mm	Model	W mm	R mm	G mm
OD01-17	100	25	7	OD02-30	120	32	12	OD04-41	135	39	15	OD08-50	158	45	17
OD01-19	100	25	7	OD02-32	120	32	11	OD04-46	135	42	15	OD08-55	158	47	18
OD01-22	100	25	7	OD02-34	120	35	11	OD04-50	135	44	15	OD08-60	158	52	17
OD01-24	100	25	7	OD02-36	120	37	10	OD04-55	135	46	14	OD08-65	158	55	17
OD01-27	100	25	7	OD02-41	120	37	10	OD04-60	135	50	15	OD08-70	158	55	17
OD01-30	100	28	7	OD02-46	120	39	10	OD04-65	135	53	15	OD08-75	158	58	17
OD01-32	100	28	8	OD02-50	120	43	11	OD04-70	135	56	15	OD08-80	158	62	16
OD01-34	100	31	8	OD02-55	120	43	11	OD04-75	135	59	15	OD08-85	158	66	16
OD01-36	100	31	8	OD02-60	120	46	11	OD04-80	135	61	15	OD08-90	158	69	17

Lightweight Planetary Gearboxes

- Precision planetary gear reduction mechanism is adopted with compact structure, which is sturdy and durable;
- Excellent transmission efficiency, multiple speed ratios, covering a torque range of 100-12,000Nm, with repeatability up to $\pm 3\%$;
- Mechanical damping system, improving operational convenience and safety;
- Capable of carrying multiple brand power tools, easily achieving precise torque control, and providing customized solutions for a series of overall tools;
- Capable of providing customized services for other specifications of transmission ratios;



Lightweight Planetary Gearboxes



LPG07



LPG25



LPG50



Pneumatic Wrench



18V Brushless Lithium drill (or 36V)



230V Brushless Hammer Drill



Pneumatic Wrench



18V Brushless Lithium drill



230V Brushless Hammer Drill



Pneumatic Wrench



18V Brushless Lithium Drill



230V Hammer Drill



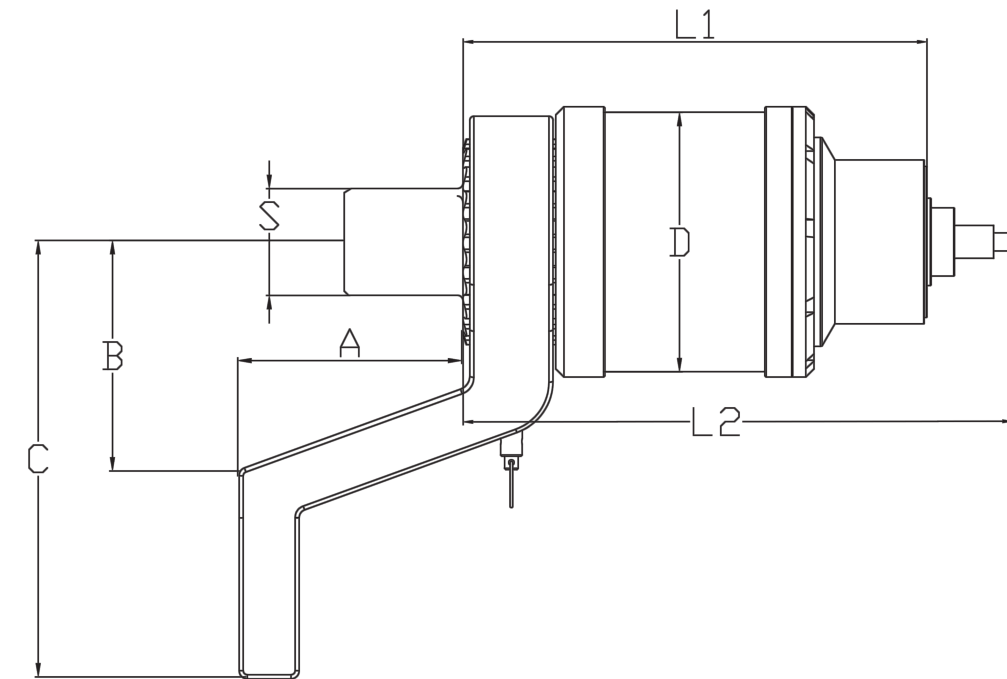
Pneumatic Wrench



36V Lithium Drill



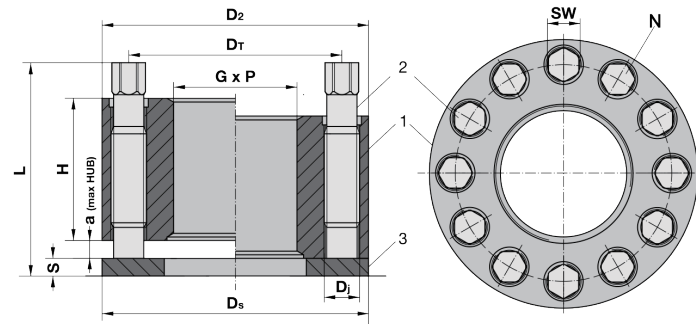
230V Hammer Drill



Model	Torque (N.m)	Input Square Drive S (Inch)	L1 (mm)	L2 (mm)	D (mm)	A (mm)	B (mm)	C (mm)	Weight (Kg)
LPG07	700	1/2"	130	162	60	34	47	100	2.1
LPG12	1200	3/4"	155	187	75	60	55	110	2.3
LPG25	2500	1"	181	213	75	70	75	150	3.6
LPG40	4000	1-1/2"	197	229	88	85	78	160	4.9
LPG50	5000	1-1/2"	213	245	96	85	78	160	6.0
LPG80	8000	1-1/2"	249	281	122	91	83	180	7.5
LPG100	10000	1-1/2"	249	281	122	91	83	180	7.6
LPG120	12000	1-1/2"	249	281	122	91	83	180	7.7

Super Nuts

- Lightweight, small in size, and applicable for narrow spaces, which is economical and efficient;
- Load accuracy within the range of $\pm 5\%$;
- It is easy to operate, with pressure evenly distributed on the pressure ring, which is not easily deformed;
- Under load, the main bolt is free of wear and maintenance;
- Optional surface blackening or nickel plating treatment, corrosion resistance;
- It is applicable for various types of vibration, rapid rotation, and high force equipment, without loosening;



Model	Body Dimension (mm)				Pressure Bolt (mm)				Pressure Ring (mm)		L (mm)	Pre-tension Force (Kn)	
	G x P	D2	H	DT	Dj	N	SW	a	DS	S		Standard	Max
SNM16x2	M16 x 2	34	16	25	M6 x 0.75	4	5	6	32	3	33	73	94
SNM20x2.5	M20 x 2.5	38	16	29	M6 x 0.75	6	5	6	38	4	34	110	140
SNM22x2.5	M22 x 2.5	41	16	31	M6 x 0.75	6	5	6	41	4	34	110	140
SNM24x3	M24 x 3	44	16	33	M6 x 0.75	8	5	6	43	4	34	145	187
SNM27x3	M27 x 3	50	24	39	M8 x 1	6	6	6	50	5	45	214	285
SNM30x3.5	M30 x 3.5	53	24	42	M8 x 1	6	6	6	53	5	45	214	285
SNM33x3.5	M33 x 3.5	59	24	45	M8 x 1	8	6	6	59	5	45	285	380
SNM36x4	M36 x 4	66	32	51	M10 x 1.25	6	8	8	66	5	58	343	457
SNM39x4	M39 x 4	70	32	54	M10 x 1.25	8	8	8	70	5	58	457	610
SNM42x4.5	M42 x 4.5	75	32	57	M10 x 1.25	8	8	8	73	5	58	457	610
SNM45x4.5	M45 x 4.5	83	38	63	M12 x 1.25	8	10	10	81	6	68	700	935
SNM48x5	M48 x 5	85	38	66	M12 x 1.25	8	10	10	85	6	68	700	935
SNM52x5	M52 x 5	91	38	70	M12 x 1.25	8	10	10	90	6	68	700	935
SNM56x5.5	M56 x 5.5	98	38	74	M12 x 1.25	10	10	10	94	6	68	875	1160
SNM60x5.5	M60 x 5.5	102	38	78	M12 x 1.25	10	10	10	100	6	68	875	1160
SNM64x6	M64 x 6	113	53	87	M16 x 1.5	8	14	12	112	8	92	1270	1690
SNM68x6	M68 x 6	117	53	91	M16 x 1.5	8	14	12	117	8	92	1270	1690
SNM72x6	M72 x 6	120	56	95	M16 x 1.5	8	14	9	120	8	92	1270	1690
SNM76x6	M76 x 6	132	56	100	M16 x 1.5	12	14	9	127	8	92	1900	2530
SNM80x6	M80 x 6	132	56	103	M16 x 1.5	12	14	9	127	8	92	1900	2530
SNM85x6	M85 x 6	137	56	108	M16 x 1.5	12	14	9	137	8	92	1900	2530
SNM90x6	M90 x 6	145	59	113	M16 x 1.5	16	14	13	137	8	99	2530	3380
SNM100x6	M100 x 6	157	61	123	M16 x 1.5	16	14	11	151	10	101	2530	3380
SNM110x6	M110 x 6	177	79	139	M20 x 1.5	12	17	16	172	10	125	3150	4200
SNM120x6	M120 x 6	189	81	149	M20 x 1.5	16	17	14	179	10	125	4200	5600
SNM125x6	M125 x 6	194	81	154	M20 x 1.5	16	17	14	190	10	125	4200	5600
SNM130x6	M130 x 6	205	94	159	M20 x 1.5	18	17	16	202	10	140	4700	6300
SNM140x6	M140 x 6	215	94	169	M20 x 1.5	20	17	16	215	10	140	5250	7000
SNM150x6	M150 x 6	225	94	179	M20 x 1.5	20	17	16	225	12	142	5250	7000
SNM160x6	M160 x 6	234	107	189	M20 x 1.5	24	17	23	234	12	162	6300	8400

Super Bolt / Nut Tightening Tools

- SNT series super nut tools, divided into pretightening tools and final tightening tools;
- Preload tool to ensure alignment of all positioning bolts and improve work efficiency;
- Final tightening tool that simultaneously applies accurate and uniform torque to all positioning bolts;
- The preload tool can be used in combination with any cordless/pneumatic ratchet wrench on the market;
- The final tightening tool can be combined with any of our company's fixed torque tools (can also be matched with other brands of tools), repeatability accuracy up to $\pm 5\%$;
- The BOLTING Super nut tools have been rigorously tested to achieve very high accuracy and reliability.



Preload tools



Preload tools



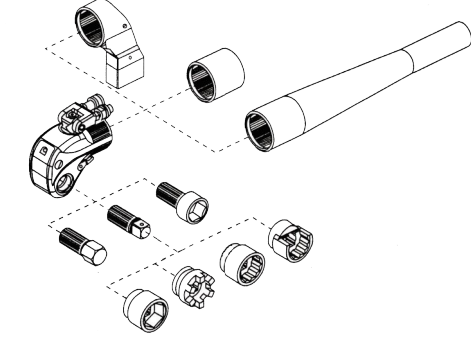
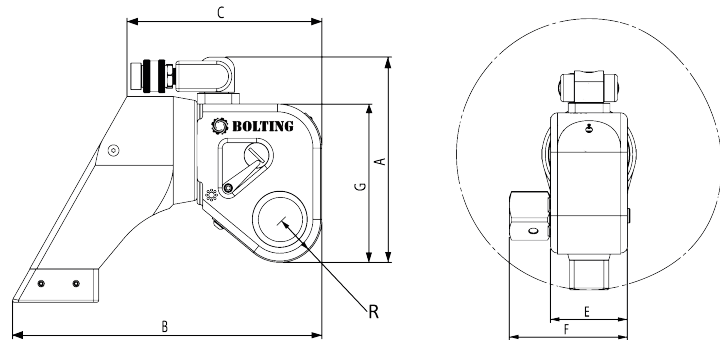
Final tightening tools



Final tightening tools

Square Drive Hydraulic Torque Wrenches

- 70Mpa Max working pressure and the accuracy keep within $\pm 3\%$;
All together 12 models with the range from 110N.m to 140882N.m, which covers the most bolts size;
- The $360^{\circ} \times 180^{\circ}$ degree swivel is free to operation with no space limitation;
- The square drive operate with high intense socket and suitable with large range of bolts;
- 360 degree adjustable reaction arm allows placing in any support point;
- Compact design with raw material of advanced aluminum-titanium alloy, high intense;



Model	Min.torque (N.m)	Max.torque (N.m)	Drive Shaf (Inch)	A (mm)	B (mm)	C (mm)	R (mm)	E (mm)	F (mm)	G (mm)	Weight (Kg)
07MXT	110	1100	3/4	108.1	139.3	110.8	20.5	42	65.8	76.2	1.8
1MXt	188	1882	3/4	133	182	130	26	52	77	96	2.5
3MXt	447	4466	1	165	249	170	34	70	98	127	4.9
5MXt	745	7451	1-1/2	184	286	202	39	81	125	149	7.6
8MXt	1073	10732	1-1/2	207	326	228	47	90	134	172	11.2
10MXt	1536	15359	1-1/2	216	336	237	51	100	144	181	13.5
15MXt	2011	20108	2-1/2	241	391	273	55	110	164	206	20.8
20MXt	2639	26392	2-1/2	256	433	287	59	120	187	221	25.9
25MXt	3540	35397	2-1/2	293	464	323	67	138	206	258	34.4
35MXt	4874	48740	2-1/2	315	494	351	79	153	217	279	50
50MXt	7066	70660	2-1/2	326	528	376	81	162	226	291	85
100MXt	14088	140882	4	473	758	520	115	210	307	415	220

Complete set of required accessories:



Hydraulic Hose



Socket



Power Pack (Electric Or Pneumatic)

Optional:



Cejn 232 Quick Connector



Cejn 115 Quick Connector



Electric Hydraulic Torque Pump



Smart Electric Hydraulic Torque Pump

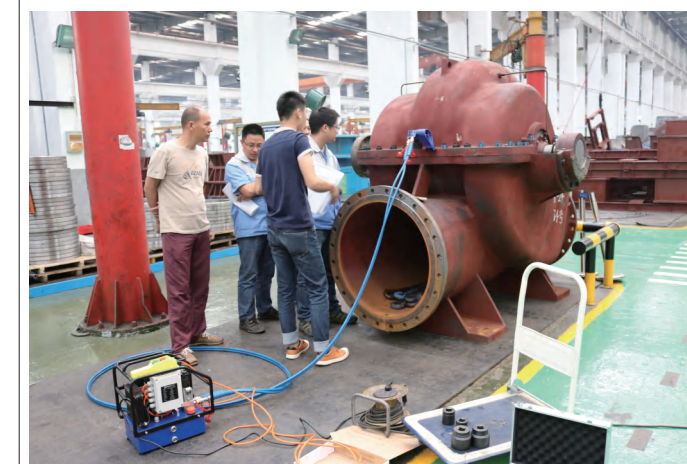


Pneumatic Hydraulic Torque Pump



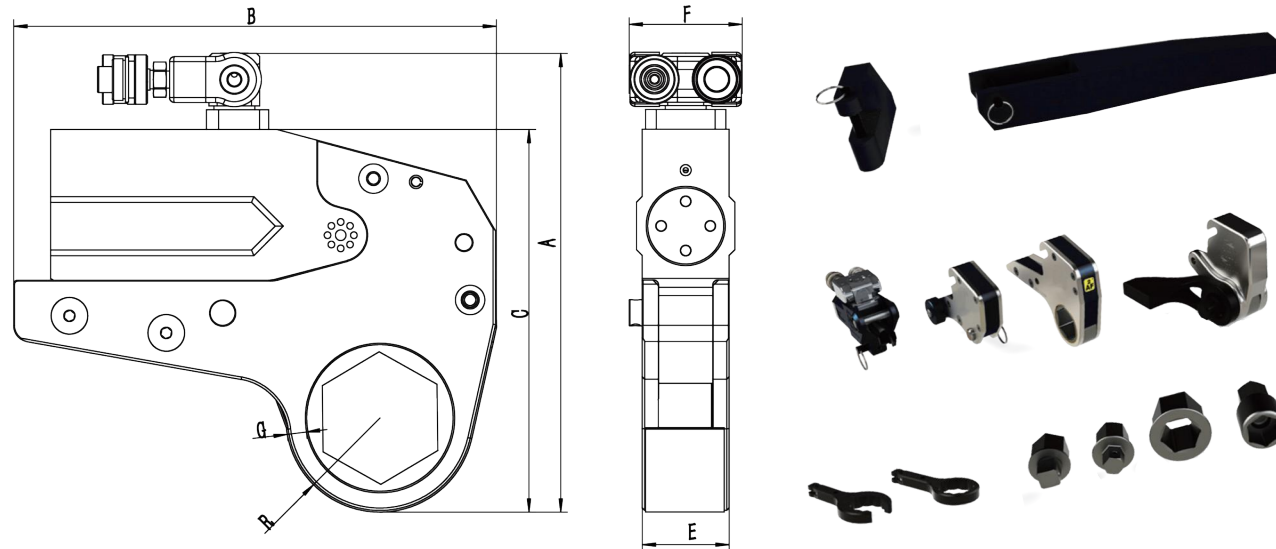
Electric Hydraulic Torque Pump (EX)

Usage Scenario:



Hollow Hydraulic Torque Wrenches

- 70Mpa Max working pressure and the accuracy keep within $\pm 3\%$;
- All together 6 models with the range from 230N.m to 44590N.m, which covers the most bolts size;
- The $360^{\circ} \times 180^{\circ}$ degree swivel is free to operation with no space limitation;
- Compact, lightweight, aluminium drive unit;
- Low profile design for limited access applications Easily assembled to selected ratchet head;
- Minimum radius cassette head for fitment in confined spaces;



Model	Min.torque (N.m)	Max.torque (N.m)	Hexagon Range (mm)	Power Head Weight (Kg)	Work Head Weight (Kg)	Dimension (mm)				
						A	B	C	E	F
2XLCT	230	2330	19-55	1	1.6	170.3	196	141.3	32	51
	242	2415	60		1.7	170.3	196	141.3	32	51
4XLCT	251	2510	34-36	2	4.4	216.8	246	189.8	42	66
	502	5020	41		4.4	216.8	246	189.8	42	66
	586	5860	46-65		4.6	216.8	302.5	189.8	42	66
	647	6475	70-80		4.6	216.8	302.5	189.8	42	66
8XLCT	1094	10945	41-95	3.3	8	259.8	302.5	235.3	53	83
	1177	11775	100-105		8.4	259.8	302.5	235.3	53	83
14XLCT	1852	18525	50-117	5.5	11.6	308.3	367	283.3	64	99
18XLCT	2640	26400	75-135	7	12.6	344.8	400.5	322.8	70	109
30XLCT	4188	41880	110-155	11.4	29	404	457.5	387	85	131
	4459	44590	160-175		30	404	457.5	387	85	131

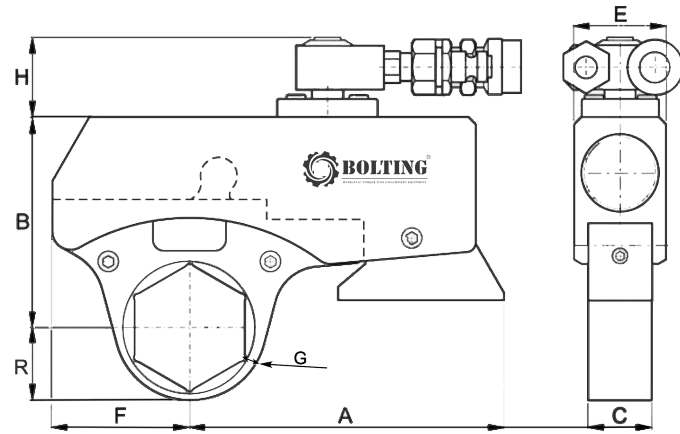
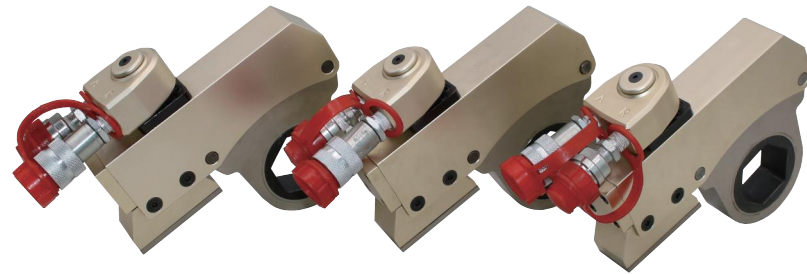
Hollow Hydraulic Torque Wrenches



2XLCT			4XLCT			8XLCT			14XLCT			18XLCT			30XLCT		
Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G
2XL-19	27	16	4XL-34	36	16	8XL-41	46	22	14XL-50	60	31	18XL-65	66	28	30XL-85	78	28
2XL-22	27	14	4XL-36	36	15	8XL-46	46	19	14XL-55	60	28	18XL-70	66	26	30XL-90	78	28
2XL-27	27	11	4XL-41	39	15	8XL-50	46	17	14XL-60	60	25	18XL-75	69	26	30XL-95	83	28
2XL-30	29	12	4XL-46	42	15	8XL-55	50	18	14XL-65	60	22	18XL-80	69	23	30XL-100	83	25
2XL-32	29	11	4XL-50	44	15	8XL-60	52	17	14XL-70	60	19	18XL-85	74	25	30XL-105	89	28
2XL-34	31	11	4XL-55	46	14	8XL-65	55	17	14XL-75	63	19	18XL-90	74	22	30XL-110	89	25
2XL-36	31	10	4XL-60	50	15	8XL-70	58	17	14XL-80	66	19	18XL-95	78	23	30XL-115	95	28
2XL-41	34	10	4XL-65	53	15	8XL-75	60	17	14XL-85	69	19	18XL-100	78	20	30XL-117	95	27
2XL-46	37	10	4XL-70	56	15	8XL-80	63	16	14XL-90	72	20	18XL-105	83	22	30XL-120	95	25
2XL-50	40	11	4XL-75	59	15	8XL-85	66	16	14XL-95	74	19	18XL-110	83	20	30XL-125	101	29
2XL-55	43	11	4XL-80	61	15	8XL-90	69	17	14XL-100	77	19	18XL-115	89	23	30XL-130	101	26
2XL-60	46	11				8XL-95	71	16	14XL-105	80	19	18XL-117	89	21	30XL-135	104	26
						8XL-100	75	17	14XL-110	83	19	18XL-120	95	26	30XL-140	110	29
						8XL-105	78	17	14XL-115	87	20	18XL-125	95	23	30XL-145	110	26
									14XL-117	87	19	18XL-130	99	24	30XL-150	116	29
												18XL-135	99	21	30XL-155	116	26
															30XL-160	128	36
															30XL-165	128	33
															30XL-170	128	30
															30XL-175	128	27

Super Thin Hydraulic Torque Wrenches

- 70Mpa Max working pressure and the accuracy keep within $\pm 3\%$;
- All together 11 models with the range from 303N.m to 180000N.m, which covers the most bolts size;
- Small dimensions and compact design for confined spaces;
- An integrated pressure relief valve ensures a safer working environment;
- Generously sized oil channels in device, provide minimal heating under continuous load;
- Various inserts available as an accessory, for flexible working;



Model	Min.Torque (N.m)	Max.Torque (N.m)	Hexagon Range (mm)	Power Head Weight (Kg)	Work Head Weight (Kg)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)
3SWT	203	2030	19-41	1.2	1.3	148	109	28	40	57
	303	3030	46-60		1.4	148	109	28	40	57
6SWT	560	5600	41-65	2.2	1.5	168	127	35	50	83
	660	6600	70-80		1.7	168	127	35	50	83
10SWT	986	9860	41-65	3.3	3.4	216	148	46	66	86
	1200	12000	70-95		3.8	216	148	46	66	86
20SWT	1850	18500	70-95	5.5	5.8	282	191	56	82	86
	2000	20000	100-115		6.8	282	191	56	82	86
30SWT	3000	30000	100-115	11.5	15.8	341	237	72	105	116
40SWT	4000	40000	115-135	12.5	16.8	341	237	72	105	116
	4509	45090	135-155		17.5	341	237	72	105	116
60SWT	6000	60000	115-165	13.8	18.9	374	265	88	130	131
70SWT	7000	70000	130-180	30	32	365	278	91.8	135	149
90SWT	9000	90000	145-210	36.8	41.6	382	275	102	150	174
130SWT	13000	130000	160-230	42.5	45.6	431	299	119	175	190
160SWT	16000	16000	185-255	66	72	482	415	142.8	210	205
180SWT	18000	180000	200-285	95.5	102	550	440	160	235	218

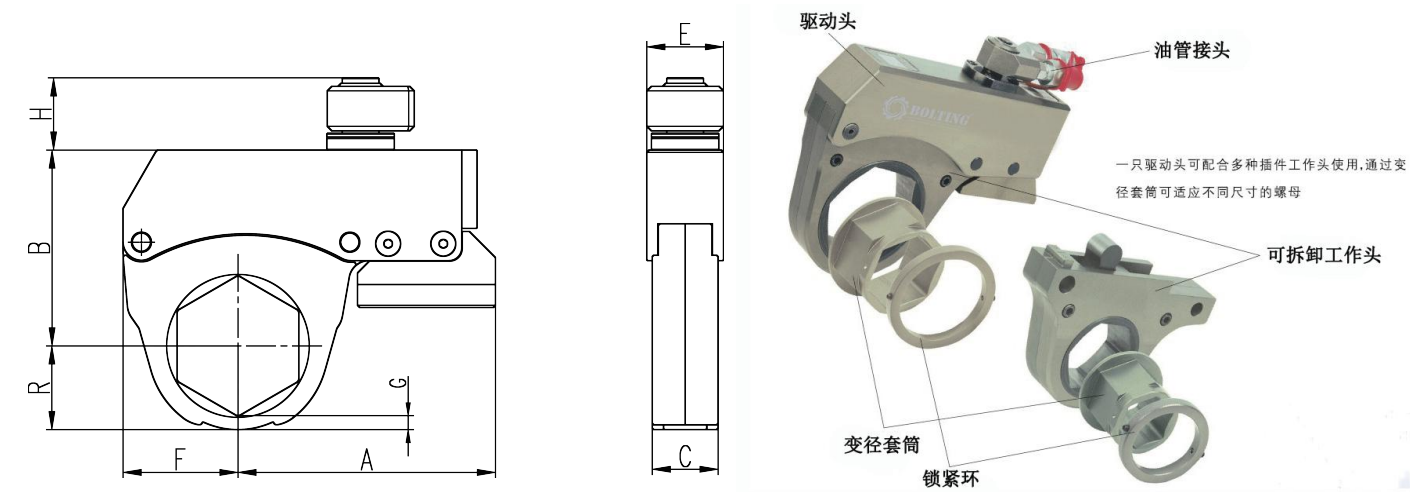
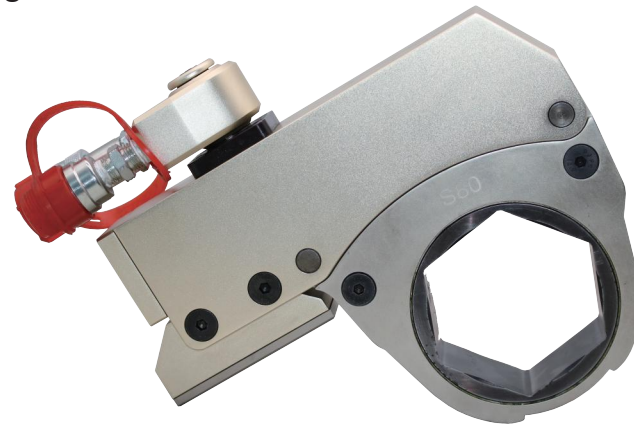
Super Thin Hydraulic Torque Wrenches



3SWT			6SWT			10SWT			20SWT			30SWT			40SWT		
Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G
3TS-19	27	16	6TS-34	36	16	10TS-41	46	22	20TS-50	60	31	30TS65	66	28	40TS-85	78	28
3TS-22	27	14	6TS-36	36	15	10TS-46	46	19	20TS-55	60	28	30TS70	66	26	40TS-90	78	28
3TS-27	27	11	6TS-41	39	15	10TS-50	46	17	20TS-60	60	25	30TS75	69	26	40TS-95	83	28
3TS-30	29	12	6TS-46	42	15	10TS-55	50	18	20TS-65	60	22	30TS80	69	23	40TS-100	83	25
3TS-32	29	11	6TS-50	44	15	10TS-60	52	17	20TS-70	60	19	30TS85	74	25	40TS-105	89	28
3TS-34	31	11	6TS-55	46	14	10TS-65	55	17	20TS-75	63	19	30TS90	74	22	40TS-110	89	25
3TS-36	31	10	6TS-60	50	15	10TS-70	58	17	20TS-80	66	19	30TS95	78	23	40TS-115	95	28
3TS-41	34	10	6TS-65	53	15	10TS-75	60	17	20TS-85	69	19	30TS100	78	20	40TS-117	95	27
3TS-46	37	10	6TS-70	56	15	10TS-80	63	16	20TS-90	72	20	30TS105	83	22	40TS-120	95	25
3TS-50	40	11	6TS-75	59	15	10TS-85	66	16	20TS-95	74	19	30TS110	83	20	40TS-125	101	29
3TS-55	43	11	6TS-80	61	15	10TS-90	69	17	20TS-100	77	19	30TS115	89	23	40TS-130	101	26
3TS-60	46	11				10TS-95	71	16	20TS-105	80	19	30TS117	89	21	40TS-135	104	26
						10TS-100	75	17	20TS-110	83	19	30TS120	95	26	40TS-140	110	29
						10TS-105	78	17	20TS-115	87	20	30TS125	95	23	40TS-145	110	26
									20TS-117	87	19	30TS130	99	24	40TS-150	116	29
												30TS135	99	21	40TS-155	116	26
															40TS-160	128	36
															40TS-165	128	33
															40TS-170	128	30
															40TS-175	128	27

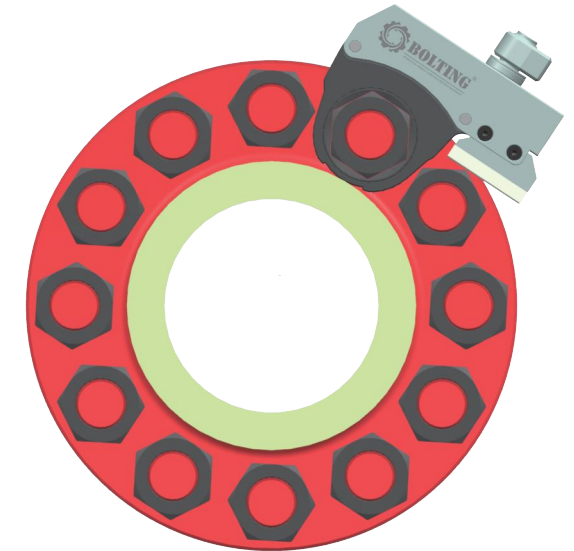
Super Thin Notch Hydraulic Torque Wrenches

- 70Mpa Max working pressure and the accuracy keep within $\pm 3\%$;
- Small dimensions and compact design for confined spaces;
- An integrated pressure relief valve ensures a safer working environment;
- Generously sized oil channels in device, provide minimal heating under continuous load;
- Various inserts available as an accessory, for flexible working;
- Unique notch design, suitable for working conditions with small clearances such as blowout preventers, Christmas trees, valves, etc;



Model	Min.Torque (N.m)	Max.Torque (N.m)	Hexagon Range (mm)	Power Head Weight (Kg)	Work Head Weight (Kg)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)
3SGT	203	2030	19-41	1.2	1.3	148	109	28	40	57
	303	3030	46-60		1.4	148	109	28	40	57
6SGT	560	5600	41-65	2.2	1.5	168	127	35	50	83
	660	6600	70-80		1.7	168	127	35	50	83
10SGT	986	9860	41-65	3.3	3.4	216	148	46	66	86
	1200	12000	70-95		3.8	216	148	46	66	86
20SGT	1850	18500	70-95	5.5	5.8	282	191	56	82	86
	2000	20000	100-115		6.8	282	191	56	82	86
30SGT	3000	30000	100-115	11.5	15.8	341	237	72	105	116
40SGT	4000	40000	115-135	12.5	16.8	341	237	72	105	116
	4509	45090	135-155		17.5	341	237	72	105	116
60SGT	6000	60000	115-165	13.8	18.9	374	265	88	130	131
70SGT	7000	70000	130-180	30	32	365	278	91.8	135	149
90SGT	9000	90000	145-210	36.8	41.6	382	275	102	150	174

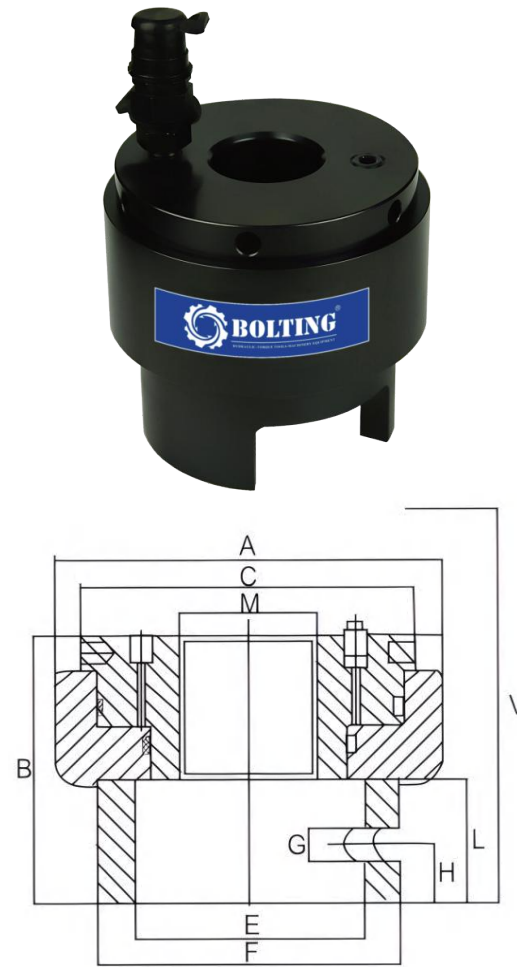
Super Thin Notch Hydraulic Torque Wrenches



3SGT			6SGT			10SGT			20SGT			30SGT			40SGT		
Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G	Work Head Model	R	G
3SG-19	24	13	6SG-34	33	13	10SG-41	42	18	20SG-50	56	27	30SG-65	60	22	40SG-85	72	22
3SG-22	24	11	6SG-36	33	12	10SG-46	42	15	20SG-55	56	24	30SG-70	60	20	40SG-90	72	22
3SG-27	24	8	6SG-41	36	12	10SG-50	42	13	20SG-60	56	21	30SG-75	63	20	40SG-95	77	22
3SG-30	26	9	6SG-46	39	12	10SG-55	46	14	20SG-65	56	18	30SG-80	63	17	40SG-100	77	19
3SG-32	26	8	6SG-50	41	12	10SG-60	48	13	20SG-70	56	15	30SG-85	68	19	40SG-105	83	22
3SG-34	28	8	6SG-55	43	11	10SG-65	51	13	20SG-75	59	15	30SG-90	68	16	40SG-110	83	19
3SG-36	28	7	6SG-60	47	12	10SG-70	54	13	20SG-80	62	15	30SG-95	72	17	40SG-115	89	22
3SG-41	31	7	6SG-65	50	12	10SG-75	56	13	20SG-85	65	15	30SG-100	72	14	40SG-117	89	21
3SG-46	34	7	6SG-70	53	12	10SG-80	59	12	20SG-90	68	16	30SG-105	77	16	40SG-120	89	19
3SG-50	37	8	6SG-75	56	12	10SG-85	62	12	20SG-95	70	15	30SG-110	77	14	40SG-125	95	23
3SG-55	40	8	6SG-80	58	12	10SG-90	65	13	20SG-100	73	15	30SG-115	83	17	40SG-130	95	20
3SG-60	43	8				10SG-95	67	12	20SG-105	76	15	30SG-117	83	15	40SG-135	98	20
						10SG-100	71	13	20SG-110	79	15	30SG-120	89	20	40SG-140	104	23
						10SG-105	74	13	20SG-115	83	16	30SG-125	89	17	40SG-145	104	20
									20SG-117	83	15	30SG-130	93	18	40SG-150	110	23
												30SG-135	93	15	40SG-155	110	20
															40SG-160	122	30
															40SG-165	122	27
															40SG-170	122	24
															40SG-175	122	21

Gravity Return Hydraulic Tensioners

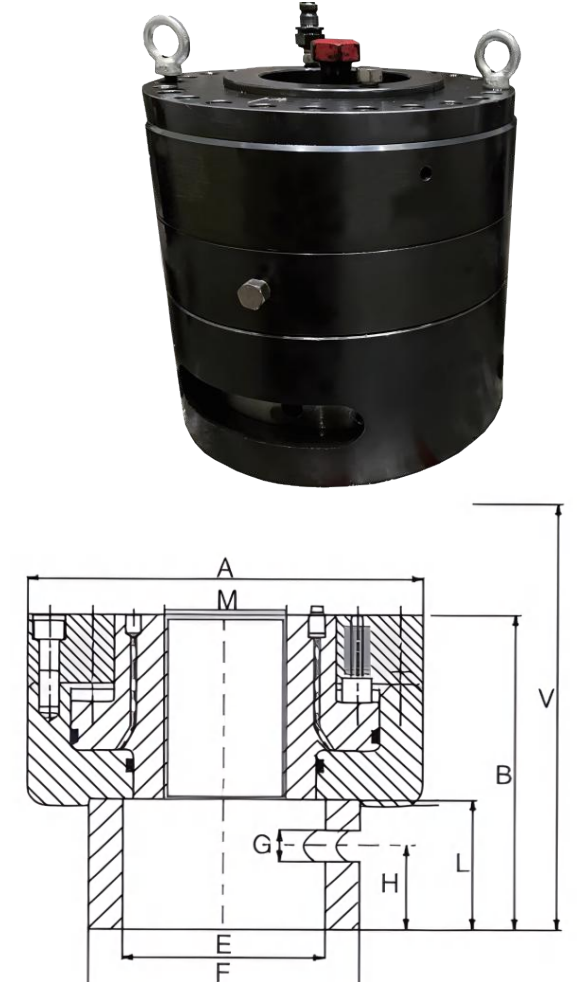
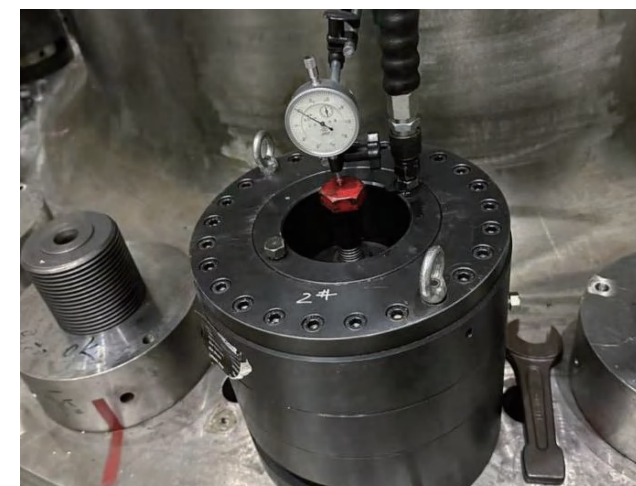
- Single acting design with manual piston retraction;
- High grade alloy steel construction;
- Maximum piston stroke indicator;
- Dual quick connect couplings for easy connection;
- Designed to fit most sizes of ANSI and API flanges and some Compact flanges;
- Interchangeable accessories to cover multiple stud bolt sizes using same tensioner;
- Customised and special design tensioners are available on request;



Model	Bolt Diameter		Max. Load (Kn)	Area (mm ²)	Dimension(mm)								Stroke (mm)
	(M)	(Inch)			A	B	C	E	F	G	H	L	
GRHT18	M18	3/4"	188	1256	70	75	65	45	60	6	8	29	8
GRHT24	M24	1"	225	1500	80	75	70	50	68	6	10	35	8
GRHT27	M27	1-1/8"	286	1906	90	87	80	55	75	8	13	38	8
GRHT30	M30	1-1/4"	319	2125	95	87	85	59	79	8	16	42	8
GRHT36	M36	1-3/8"	427	2845	105	90	95	62	82	8	20	45	8
GRHT39	M39	1-1/2"	530	3532	110	90	100	70	88	10	22	45	8
GRHT42	M42	1-5/8"	639	4262	118	90	100	72	90	10	28	45	8
GRHT48	M48	1-7/8"	801	5341	130	100	115	80	102	10	32	51	8
GRHT56	M56	2-1/4"	1087	7245	155	115	130	95	120	12	34	60	8
GRHT64	M64	2-1/2"	1523	10151	178	130	150	107	136	12	43	67	10
GRHT72	M72	2-3/4"	2029	13528	205	150	170	120	152	14	48	11	10
GRHT80	M80	3-1/8"	2392	15944	220	165	190	135	172	14	53	85	10
GRHT90	M90	3-5/8"	3355	22364	260	185	220	153	195	20	60	95	10
GRHT100	M100	4"	3393	22619	270	205	230	165	210	20	67	105	10
GRHT105	M105	4-1/8"	4243	28287	280	215	240	175	220	20	70	110	10
GRHT110	M110	4-3/8"	4712	31416	300	225	260	180	230	20	73	115	10
GRHT125	M125	5"	5832	38877	340	255	290	205	260	25	83	130	10
GRHT140	M140	5-1/2"	7069	47124	380	285	320	230	290	30	90	145	10
GRHT150	M150	6"	8423	56156	420	310	240	247	302	30	100	157	12
GRHT160	M160	6-1/2"	9312	62080	430	320	360	255	315	35	107	167	12

Spring Return Hydraulic Tensioners

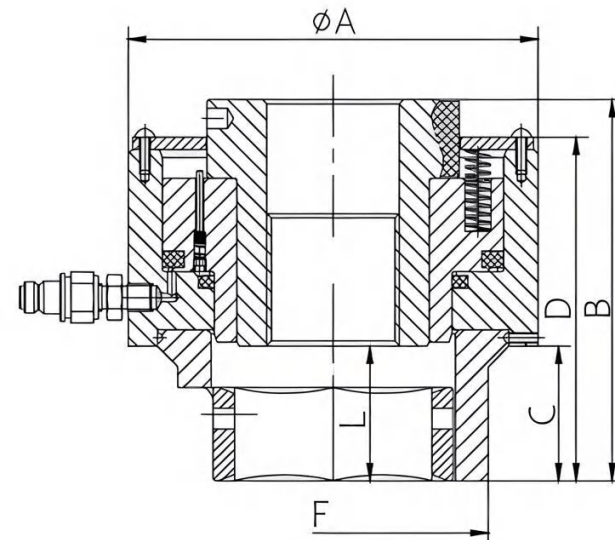
- Single acting design with spring assisted return;
- High grade alloy steel construction;
- Maximum piston stroke indicator;
- Dual quick connect couplings for easy connection;
- Designed to fit most sizes of ANSI and API flanges and some Compact flanges;
- Interchangeable accessories to cover multiple stud bolt sizes using same tensioner;
- Customised and special design tensioners are available on request;



Model	Bolt Diameter		Max. Load (Kn)	Area (mm ²)	Dimension(mm)								Stroke (mm)
	(M)	(Inch)			A	B	C	E	F	G	H	L	
SRHT18	M18	3/4"	188	1256	70	75	65	45	60	6	8	29	8
SRHT24	M24	1"	225	1500	80	75	70	50	68	6	10	35	8
SRHT27	M27	1-1/8"	286	1906	90	87	80	55	75	8	13	38	8
SRHT30	M30	1-1/4"	319	2125	95	87	85	59	79	8	16	42	8
SRHT36	M36	1-3/8"	427	2845	105	90	95	62	82	8	20	45	8
SRHT39	M39	1-1/2"	530	3532	110	90	100	70	88	10	22	45	8
SRHT42	M42	1-5/8"	639	4262	118	90	100	72	90	10	28	45	8
SRHT48	M48	1-7/8"	801	5341	130	100	115	80	102	10	32	51	8
SRHT56	M56	2-1/4"	1087	7245	155	115	130	95	120	12	34	60	8
SRHT64	M64	2-1/2"	1523	10151	178	130	150	107	136	12	43	67	10
SRHT72	M72	2-3/4"	2029	13528	205	150	170	120	152	14	48	11	10
SRHT80	M80	3-1/8"	2392	15944	220	165	190	135	172	14	53	85	10
SRHT90	M90	3-5/8"	3355	22364	260	185	220	153	195	20	60	95	10
SRHT100	M100	4"	3393	22619	270	205	230	165	210	20	67	105	10
SRHT105	M105	4-1/8"	4243	28287	280	215	240	175	220	20	70	110	10
SRHT110	M110	4-3/8"	4712	31416	300	225	260	180	230	20	73	115	10
SRHT125	M125	5"	5832	38877	340	255	290	205	260	25	83	130	10
SRHT140	M140	5-1/2"	7069	47124	380	285	320	230	290	30	90	145	10
SRHT150	M150	6"	8423	56156	420	310	240	247	302	30	100	157	12
SRHT160	M160	6-1/2"	9312	62080	430	320	360	255	315	35	107	167	12

Interchange Hydraulic Tensioners

- Single acting design with manual piston retraction;
- High grade alloy steel construction;
- Maximum piston stroke indicator;
- Dual quick connect couplings for easy connection;
- Designed to fit most sizes of ANSI and API flanges and some Compact flanges;
- Interchangeable accessories to cover multiple stud bolt sizes using same tensioner;
- Customised and special design tensioners are available on request;

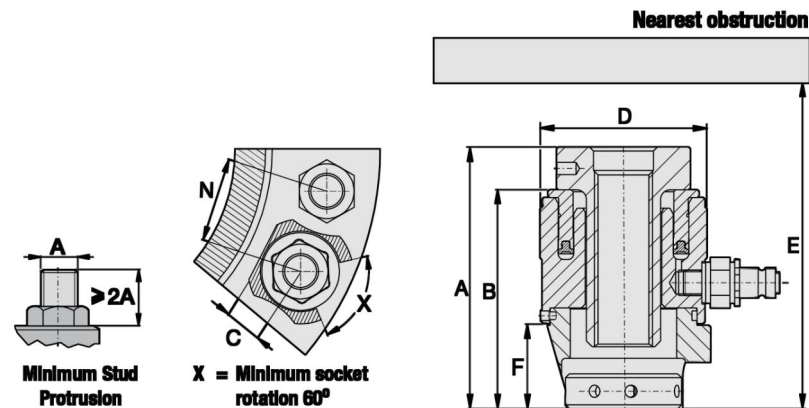


Interchange Hydraulic Tensioners

Model	Bolt Diameter	Max. Load (Kn)	Dimension(mm)						Weight (Kg)	Stroke (mm)			
	(M)		A	B	C	D	L	F					
ISHT0	M20	307	109	128	25	111	23	55	5	8			
	M22			130	27	113	25	59					
	M24			132	29	115	27	66					
	M27			135	32	118	30	72					
ISHT1	M30	530	109	144	35	126	35	80	5		8		
	M33			147	38	129	38	85					
ISHT1A	M30	486	109	144	35	126	35	80	7			8	
	M33			147	38	129	38	85					
	M36			147	38	129	38	90					
ISHT2	M33	814	307	146	40	131	37	85	10				8
	M36			149	43	134	43	96					
	M39			154	47	139	43	98					
	M42			156	50	141	54	110					
ISHT3	M39	989	132	150	42	136	40	110	15	10			
	M42			152	44	138	44	113					
	M45			161	50	144	50	114					
	M48			163	52	146	52	118					
ISHT4	M48	1413	174	174	59	145	55	132	20		10		
	M52			178		154		135					
	M56			179		158		135					
ISHT5	M56	1649	198	179	60	161	60	135	25			12	
	M60			183	64	165	64	143					
	M64			184	65	166	65	150					
	M68			193	72	175	72	158					
ISHT6	M72	2131	222	207.5	76	184.5	75.5	165	35				12
	M76			211.5	80	188.5	80	170					
ISHT7	M76	2544	252	221	80	194	80	170	50	12			
	M80			226.5	85	199	85	175					
	M85			226.5	85	199	76.5	190					
	M90			235.5	94	208	95	205					
ISHT8	M95	3101	282	247	104.5	218	100	215	65		12		
	M100			252	109.5	223	105	235					
ISHT9	M105	3792	318	242	98	212	93	225	85			12	
	M110			264	120	234	115	235					
	M115			269	125	239	120	260					
ISHT10	M115	4900	360	297	120	261	120	260	110				
	M120			302	125	266	125	270					
	M125			307	140	271	130	272					
ISHT11	M130	6255	408	312	135	276	135	285	130	12			
	M135			317	140	281	140	292					
	M140			322	145	286	155	300					
	M145			332	155	296	165	312					
ISHT12	M145	8423	456	337	150	301	150	312	150		12		
	M150			342	155	306	165	340					
	M160			352	165	316	165	350					

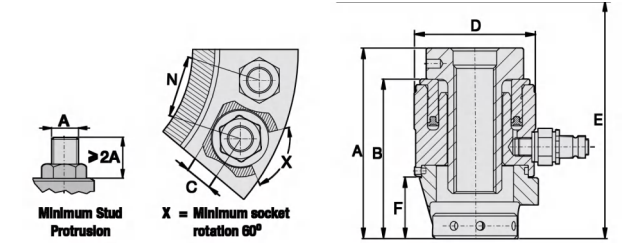
Interchange Hydraulic Tensioners(Gravity Return)

- Seven load cells from M16 to M105 or from 5/8" to 4";
- Twin ports for quick connection of multiple tools;
- Only one size of bridge per size of load cell;
- Detachable and rotational bridge simplifies tool positioning;
- Full bridge window – increased access to socket;
- Captive socket – eliminates falling object risk;
- Piston stroke indicator;
- Black surface treatment protects against corrosion;
- Anti-slip grip for more secure handling;



Load Cell * and Bridge Model Number	Thread Size	Adaptor Kit Model Number	Cylinder Effective Area (mm ²)	Maximum Load Capacity (Kn)	Dimensions(mm)							Load Cell and Bridge Weht (Kg)	Adaptor Kit Weht Kg)
					A	B	C	D	E Min.	F	N Min.		
IGHT1-LCB	M16 x 2	HT1-01620	1495.4	224.3	135	113	27	86	243	44	57	3.0	1.6
	M18 x 2.5	HT1-01825	1495.4	224.3	135	113	27	86	243	44	58	3.0	1.5
	M20 x 2.5	HT1-02025	1495.4	224.3	135	113	27	86	243	44	59	3.0	1.4
	M24 x 3	HT1-02430	1495.4	224.3	135	113	27	86	243	44	61	3.0	1.3
	M27 x 3	HT1-02730	1495.4	224.3	135	113	27	86	243	44	64	3.0	1.2
	M30 x 3.5	HT1-03035	1495.4	224.3	135	113	27	86	243	44	66	3.0	1.0
	5/8"- 11un	HT1P-0625U11	1495.4	224.3	135	113	27	86	243	44	57	3.0	1.6
	3/4"- 10un	HT1P-0750U10	1495.4	224.3	135	113	27	86	243	44	59	3.0	1.4
	7/8"- 9un	HT1P-0875U09	1495.4	224.3	135	113	27	86	243	44	62	3.0	1.3
IGHT2-LCB	1"- 8un	HT1P-1000U08	1495.4	224.3	135	113	27	86	243	44	64	3.0	1.2
	1 1/8"- 8un	HT1P-1125U08	1495.4	224.3	135	113	27	86	243	44	66	3.0	1.0
	M30 x 3.5	HT2-03035	2677.2	401.5	136	111	35	107	226	41	75	4.1	2.6
	M33 x 3.5	HT2-03335	2677.2	401.5	136	111	35	107	226	41	76	4.1	2.4
	M36 x 4	HT2-03640	2677.2	401.5	136	111	35	107	226	41	79	4.1	2.2
	M39 x 4	HT2-03940	2677.2	401.5	136	111	35	107	226	41	82	4.1	1.9
	1 1/8"- 8un	HT2P-1125U08	2677.2	401.5	136	111	35	107	226	41	74	4.1	2.6
	1 1/4"- 8un	HT2P-1250U08	2677.2	401.5	136	111	35	107	226	41	76	4.1	2.4
	1 3/8"- 8un	HT2P-1375U08	2677.2	401.5	136	111	35	107	226	41	79	4.1	2.2
IGHT7-LCB	1 1/2"- 8un	HT2P-1500U08	2677.2	401.5	136	111	35	107	226	41	82	4.1	2.0
	M100 x 6	HT7-10060	26389.4	3958.4	243	182	89	277	332	110	196	38.2	28.5
	M105 x 6	HT7-10560	26389.4	3958.4	243	182	89	277	332	110	199	38.2	27.3
IGHT7-LCB	4"- 8un	HT7P-4000U08	26389.4	3958.4	243	182	89	277	332	110	204	38.2	27.3

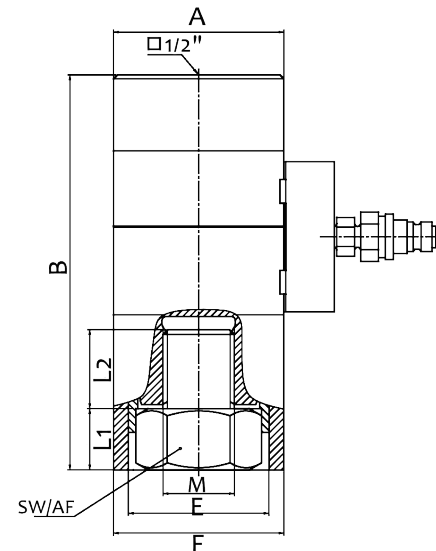
Interchange Hydraulic Tensioners(Gravity Return)



Load Cell * and Bridge Model Number	Thread Size	Adaptor Kit Model Number	Cylinder Effective Area (mm ²)	Maximum Load Capacity (Kn)	Dimensions(mm)							Load Cell and Bridge Weht (kg)	Adaptor Kit Weht (kg)
					A	B	C	D	E Min.	F	N Min.		
IGHT3-LCB	M39 x 4	HT3-03940	5127.1	768.9	160	126	46	138	256	56	96	7.0	5.7
	M42 x 4.5	HT3-04245	5127.1	768.9	160	126	46	138	256	56	98	7.0	5.4
	M45 x 4.5	HT3-04545	5127.1	768.9	160	126	46	138	256	56	101	7.0	5.0
	M48 x 5	HT3-04850	5127.1	768.9	160	126	46	138	256	56	104	7.0	4.7
	M52 x 5	HT3-05250	5127.1	768.9	160	126	46	138	256	56	107	7.0	4.2
	1 1/2"- 8un	HT3P-1500U08	5127.1	768.9	160	126	46	138	256	56	95	7.0	5.7
	1 5/8"- 8un	HT3P-1625U08	5127.1	768.9	160	126	46	138	256	56	98	7.0	5.3
	1 3/4"- 8un	HT3P-1750U08	5127.1	768.9	160	126	46	138	256	56	101	7.0	5.0
	1 7/8"- 8un	HT3P-1875U08	5127.1	768.9	160	126	46	138	256	56	104	7.0	4.6
IGHT4-LCB	2"- 8un	HT3P-2000U08	5127.1	768.9	160	126	46	138	256	56	106	7.0	4.2
	M52 x 5	HT4-05250	9782.1	1466.9	180	141	62	174	281	71	121	12.2	10.7
	M56 x 5.5	HT4-05655	9782.1	1466.9	180	141	62	174	281	71	124	12.2	10.1
	M60 x 5.5	HT4-06055	9782.1	1466.9	180	141	62	174	281	71	127	12.2	9.4
	M64 x 6	HT4-06460	9782.1	1466.9	180	141	62	174	281	71	129	12.2	8.8
	M68 x 6	HT4-06860	9782.1	1466.9	180	141	62	174	281	71	132	12.2	8.1
	2"- 8un	HT4P-2000U08	9782.1	1466.9	180	141	62	174	281	71	120	12.2	10.7
	2 1/4"- 8un	HT4P-2250U08	9782.1	1466.9	180	141	62	174	281	71	126	12.2	9.7
	2 1/2"- 8un	HT4P-2500U08	9782.1	1466.9	180	141	62	174	281	71	132	12.2	8.5
IGHT5-LCB	M68 x 6	HT5-06860	15079.7	2261.4	202	157	78	210	302	86	148	18.7	17.3
	M72 x 6	HT5-07260	15079.7	2261.4	202	157	78	210	302	86	149	18.7	16.4
	M76 x 6	HT5-07660	15079.7	2261.4	202	157	78	210	302	86	152	18.7	15.5
	M80 x 6	HT5-08060	15079.7	2261.4	202	157	78	210	302	86	155	18.7	14.6
	2 1/2"- 8un	HT5P-2500U08	15079.7	2261.4	202	157	78	210	302	86	148	18.7	17.8
	2 3/4"- 8un	HT5P-2750U08	15079.7	2261.4	202	157	78	210	302	86	153	18.7	16.3
	3"- 8un	HT5P-3000U08	15079.7	2261.4	202	157	78	210	302	86	158	18.7	14.8
	3 1/4"- 8un	HT5P-3250U08	15079.7	2261.4	202	157	78	210	302	86	161	18.7	13.1
IGHT6-LCB	M80 x 6	HT6-08060	18972.1	2845.1	219	173	82	240	323	95	167	27.8	22.3
	M85 x 6	HT6-08560	18972.1	2845.1	219	173	82	240	323	95	170	27.8	21.0
	M90 x 6	HT6-09060	18972.1	2845.1	219	173	82	240	323	95	175	27.8	19.4
	M95 x 6	HT6-09560	18972.1	2845.1	219	173	82	240	323	95	179	27.8	18.0
	3 1/4"- 8un	HT6P-3250U08	18972.1	2845.1	219	173	82	240	323	95	173	27.8	20.7
	3 1/2"- 8un	HT6P-3500U08	18972.1	2845.1	219	173	82	240	323	95	181	27.8	18.8
	3 3/4"- 8un	HT6P-3750U08	18972.1	2845.1	219	173	82	240	323	95	188	27.8	16.8
IGHT7-LCB	M100 x 6	HT7-10060	26389.4	3958.4	243	182	89	277	332	110	196	38.2	28.5
	M105 x 6	HT7-10560	26389.4	3958.4	243	182	89	277	332	110	199	38.2	27.3
	4"- 8un	HT7P-4000U08	26389.4	3958.4	243	182	89	277	332	110	204	38.2	27.3

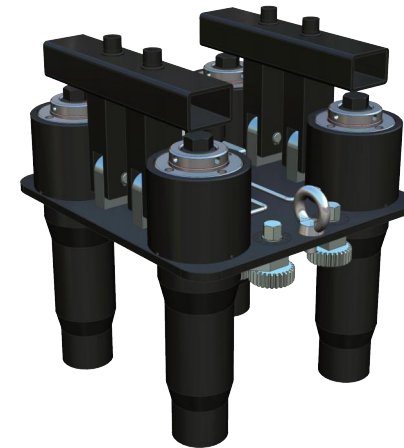
Multi Stage (wind power) Hydraulic Tensioners

- DSH-Series Bolt Tensioners are designed for critical fastening applications in wind, steam and gas turbines;
- DSH-Series Bolt Tensioners are loaded with performance enhancing features such as Auto-Retract Pistons, Cycle Counters and a premium coating to offer the ultimate in efficiency, durability and ease of use;
- Auto-retract piston: Simplifies use and improves speed of operation;
- Long-life puller: For maximum durability;
- Long-life seals: For maximum durability and extended service life intervals;
- Over-stroke indicator: Extends cylinder life by helping to prevent over-stroking of cylinder;
- Optional counter: Helps indicate when maintenance is due to maximize uptime;



Model	Bolt Diameter		Max. Load (Kn)	Dimension(mm)						Weight (Kg)	Stroke (mm)
	(M)	(Inch)		A	B	L1	L2	E	F		
DSHT24	M24	1"	350	184	184	22	33	44	60	60	8
DSHT27	M27	1-1/8"	475	190	190	25	37	56	65	65	10
DSHT30	M30	1-1/8"	578	205	205	28	44	62	74	74	10
DSHT33	M33	1-1/4"	713	237	237	31	46	67	80	80	10
DSHT36	M36	1-3/8"	844	220	220	34	49	72	90	90	10
DSHT39	M39	1-1/2"	1000	248	248	37	54	78	96	96	10
DSHT42	M42	1-5/8"	1160	253	253	40	57	84	96	96	10
DSHT45	M45	1-3/4"	1350	257	257	43	60	90	110	110	10
DSHT48	M48	1-7/8"	1525	261	261	45	62	95	118	118	10
DSHT52	M52	2"	1813	267	267	49	66	103	120	120	10
DSHT56	M56	2-1/4"	2094	290	290	53	70	107	131	131	10
DSHT60	M60	2-3/8"	2513	328	328	55	74	115	138	138	10
DSHT64	M64	2-1/2"	2763	331	331	59	78	121	148	148	10
DSHT68	M68	2-3/4"	3325	345	345	62	80	127	157	157	10
DSHT72	M72	2-7/8"	3500	360	360	65	85	131	168	168	10

Special Hydraulic Tensioner Project Case Non Standard Project Cases



Quadruple Hydraulic Bolt Tensioner



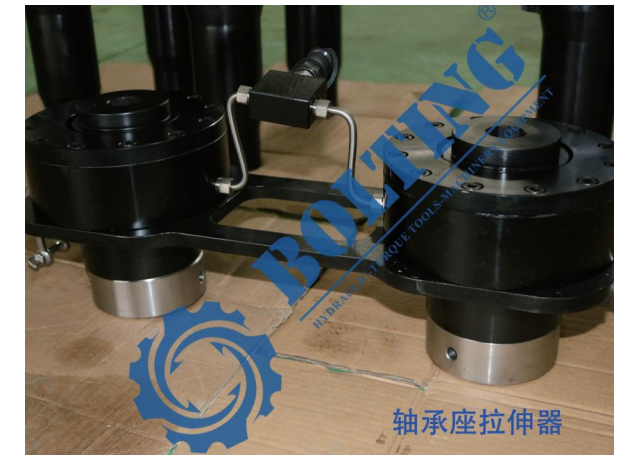
Hydraulic Tensioner For Cylinder Head



Hydraulic Tensioner(With Displacement Sensor)



Multi Synchronous Hydraulic Tensioner



Bearing Seat Hydraulic Tensioner



PLC Controlled Intelligent Hydraulic Tensioner

General Purpose Hydraulic Cylinders (Single-Acting)

- Bearing system with composite wear bands for optimal sideload resistance;
- Strengthened stop ring improves durability and side load resistance;
- Pre-tensioned spring system provides faster retraction;
- High-grade polyethylene seals for low wear and long service life;
- Plunger wiper reduces contamination, extending cylinder life;
- Collar and plunger threads and base mounting holes enable easy fixturing (on most models) ;
- Baked enamel finish for increased corrosion resistance ; Includes 232-3/8 coupler, dust cap and collar thread protector;



Optional Accessories:

Accessories	Flat Saddles	Grooved Saddles	Tilt Saddles	Base Pate	Mounting Block	Base Clevis Eyes	Plunger Clevis Eyes
Capacity Ton (Kn)							
5 (45)	A-53 2	A-53G 2	—	—	AW-51, AW-53 2	REB-5 2	REP-5 2
10 (101)	A-12, A-102F 3	A-102G 3	CAT-10 3)	JB1-10	RB-10, AW-102	REB-10	REP-10 3
15 (142)	—	A-152G	CAT-10	—	RB-15	REB-15	REP-15
25 (232)	A-29	A-252G	CAT-50	JB1-25	RB-25	REB-25	REP-25
30 (295)	A-29	A-252G	CAT-50	—	RB-25	—	—
50 (498)	—	—	CAT-100	JB1-50	—	—	—
75 (718)	—	—	CAT-100	—	—	—	—
95 (933)	—	—	CAT-100	—	—	—	—

Model	Capacity Class (Ton)	Oil Capacity (cm ³)	Stroke (mm)	Collapsed Height (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Spindle Diameter (mm)	External Thread (in)	Thread Length (mm)	Weight (Kg)
RC-50	5	10	16	41	38	28.7	25.4	1-1/2"	28	1
RC-51		16	25	110	38	28.7	25.4	1-1/2"	28	1
RC-53		50	76	165	38	28.7	25.4	1-1/2"	28	1.5
RC-55		83	127	215	38	28.7	25.4	1-1/2"	28	1.9
RC-57		115	177	273	38	28.7	25.4	1-1/2"	28	2.4
RC-59		151	232	323	38	28.7	25.4	1-1/2"	28	2.8
RC-101	10	38	26	89	57	42.9	38.1	2-1/4"	26	1.8
RC-102		78	54	121	57	42.9	38.1	2-1/4"	28	2.3
RC-104		152	105	171	57	42.9	38.1	2-1/4"	26	3.3
RC-106		226	156	247	57	42.9	38.1	2-1/4"	28	4.4
RC-108		294	203	298	57	42.9	38.1	2-1/4"	26	5.4
RC-1010		373	257	349	57	42.9	38.1	2-1/4"	28	6.4
RC-1012	15	441	304	400	57	42.9	38.1	2-1/4"	26	6.8
RC-1014		516	356	450	57	42.9	38.1	2-1/4"	26	8.2
RC-151		51	25	124	69	50.8	41.4	2-3/4"	30	3.3
RC-152		104	51	149	69	50.8	41.4	2-3/4"	30	4.1
RC-154		205	101	200	69	50.8	41.4	2-3/4"	30	5
RC-156		308	152	271	69	50.8	41.4	2-3/4"	30	6.8
RC-158		411	203	322	69	50.8	41.4	2-3/4"	30	8.2
RC-1510		516	254	373	69	50.8	41.4	2-3/4"	30	9.5
RC-1512		619	305	423	69	50.8	41.4	2-3/4"	30	10.9
RC-1514		723	356	474	69	50.8	41.4	2-3/4"	30	11.8
RC-251	25	86	26	139	85	65	57.2	3-5/16"	49	5.9
RC-252		166	50	165	85	65	57.2	3-5/16"	49	6.4
RC-254		339	102	215	85	65	57.2	3-5/16"	49	8.2
RC-256		525	158	273	85	65	57.2	3-5/16"	49	10
RC-258		697	210	323	85	65	57.2	3-5/16"	49	12.2
RC-2510		867	261	374	85	65	57.2	3-5/16"	49	14.1
RC-2512	30	1033	311	425	85	65	57.2	3-5/16"	49	16.3
RC-2514		1202	362	476	85	65	57.2	3-5/16"	49	17.7
RC-308		880	209	387	101	73.2	57.2	3-5/16"	49	18.1
RC-502		362	51	176	127	95.2	79.5	5"	55	15
RC-504		719	101	227	127	95.2	79.5	5"	55	19.1
RC-506		1131	159	282	127	95.2	79.5	5"	55	23.1
RC-5013	75	2399	337	460	127	95.2	79.5	5"	55	37.6
RC-756		1603	156	285	146	114.3	95.2	5-3/4"	44	29.5
RC-7513		3417	333	492	146	114.3	95.2	5-3/4"	44	59
RC-1004		1353	102	204	177	130.3	104.9	6-7/8"	44	33.1
RC-1006		2239	168	357	177	130.3	104.9	6-7/8"	44	59
RC-1008		2706	203	357	177	130.3	104.9	6-7/8"	44	59
RC-10010	100	3466	260	449	177	130.3	104.9	6-7/8"	44	72.6

General Purpose Hydraulic Cylinders (Double-Acting)

- Collar threads, plunger threads and base mounting holes for easy fixturing;
- Baked enamel finish for increased corrosion resistance;
- Removable hardened saddles protect plunger during lifting and pressing;
- Built-in safety valve prevents accidental over-pressurization;
- Plunger wiper reduces contamination, extending cylinder life;
- 232-3/8 included on all models;



Optional Accessories:

Accessories	Flat Saddles	Grooved Saddles	Tilt Saddles	Base Pate	Mounting Block	Base Clevis Eyes	Plunger Clevis Eyes
Capacity Ton (Kn)							
5 (45)	A-53 2	A-53G 2	—	—	AW-51, AW-53 2	REB-5 2	REP-5 2
10 (101)	A-12, A-102F 3	A-102G 3	CAT-10 3)	JB1-10	RB-10, AW-102	REB-10	REP-10 3
15 (142)	—	A-152G	CAT-10	—	RB-15	REB-15	REP-15
25 (232)	A-29	A-252G	CAT-50	JB1-25	RB-25	REB-25	REP-25
30 (295)	A-29	A-252G	CAT-50	—	RB-25	—	—
50 (498)	—	—	CAT-100	JB1-50	—	—	—
75 (718)	—	—	CAT-100	—	—	—	—
95 (933)	—	—	CAT-100	—	—	—	—

Model	Capacity		Oil Capacity (cm³)	Stroke (mm)	Collapsed Height (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Spindle Diameter (mm)	External Thread (in)	Thread Length (mm)	Weight (Kg)
	Class (Ton)	Push Pull									
RR-1010	10	3.3	368	254	409	73	42.9	34.9	2-1/4"	26	12
RR-1012			442	305	457	73	42.9	34.9	2-1/4"	26	14
RR-308	30	5.3	879	209	387	101	73.2	54.1	3-5/16"	49	18
RR-3014			1549	368	549	101	73.2	54.1	3-5/16"	49	29
RR-506	50	10	1111	156	331	127	95.2	79.5	5"	44	30
RR-5013			2378	334	509	127	95.2	79.5	5"	44	52
RR-5020			3638	511	733	127	95.2	79.5	5"	44	68
RR-756	75	16	1601	156	347	146	114.3	95.2	5-3/4"	38	41
RR-7513			3417	333	525	146	114.3	95.2	5-3/4"	38	68
RR-1006	100	43	2238	168	357	177	130.3	95.2	6-7/8"	50	61
RR-10013			4439	333	524	177	130.3	95.2	6-7/8"	50	93
RR-10018			6132	460	687	177	130.3	95.2	6-7/8"	50	117
RR-1502	150	67	1129	57	196	203	158.8	114.3	8"	55	49
RR-1506			3090	156	385	203	158.8	114.3	8"	55	93
RR-15013			6597	333	582	203	158.8	114.3	8"	55	124
RR-15032			16145	815	1116	203	158.8	114.3	8"	55	238
RR-2006	200	102	4332	152	430	247	190.5	133.4	9-3/4"	54	147
RR-20013			9405	330	608	247	190.5	133.4	9-3/4"	54	199
RR-20018			13025	457	765	247	190.5	133.4	9-3/4"	54	204
RR-20024			17385	610	917	247	190.5	133.4	9-3/4"	54	279
RR-20036			26049	914	1222	247	190.5	133.4	9-3/4"	54	383
RR-20048			34741	1219	1527	247	190.5	133.4	9-3/4"	54	483
RR-3006	300	170	6997	153	485	311	241.3	165.1	12-1/4"	58	200
RR-30012			13947	305	638	311	241.3	165.1	12-1/4"	58	312
RR-30018			20889	457	790	311	241.3	165.1	12-1/4"	58	385
RR-30024			27850	609	943	311	241.3	165.1	12-1/4"	58	469
RR-30036			41843	915	1247	311	241.3	165.1	12-1/4"	58	628
RR-30048			55745	1219	1552	311	241.3	165.1	12-1/4"	58	780
RR-4006	400	230	9319	152	538	358	279.4	190.5	14-1/8"	65	303
RR-40012			18700	305	690	358	279.4	190.5	14-1/8"	65	399
RR-40018			28018	457	843	358	279.4	190.5	14-1/8"	65	453
RR-40024			37400	610	995	358	279.4	190.5	14-1/8"	65	597
RR-40036			56037	914	1300	358	279.4	190.5	14-1/8"	65	792
RR-40048			74737	1219	1605	358	279.4	190.5	14-1/8"	65	980
RR-5006	500	284	11164	153	577	397	304.8	203.2	15-5/8"	79	432
RR-50012			22256	305	730	397	304.8	203.2	15-5/8"	79	589
RR-50018			33347	457	882	397	304.8	203.2	15-5/8"	79	680
RR-50024			44440	609	1035	397	304.8	203.2	15-5/8"	79	816
RR-50036			66768	915	1339	397	304.8	203.2	15-5/8"	79	1002
RR-50048			88951	1219	1644	397	304.8	203.2	15-5/8"	79	1224

High Tonnage Hydraulic Cylinders (Single-Acting)

- Load return plunger - simple to use and fewer components to maintain;
- Nitrocarburized finish - resists side-loading and cyclic wear; 10% resistance to side-load over the full cylinder stroke;
- Stop-ring prevents plunger blow-out Weather protected, inside and out;
- Upper and lower replaceable bearings support the plunger throughout the stroke;
- Certified lifting eyes Base mounting holes; Collar threads included on models up to 250 ton. Optional on 300 ton and higher;
- Maximum working pressure up to 10,000 psi (700 bar) ; Complies to ASME B30.1;



Model	Capacity Class (Ton)	Oil Capacity (cm³)	Stroke (mm)	Collapsed Height (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Spindle Diameter (mm)	Weight (Kg)
CLSG-502	50	385	50	162	130	99	70	17
CLSG-504		770	100	212	130	99	70	20
CLSG-506		1155	150	262	130	99	70	23
CLSG-508		1540	200	312	130	99	70	27
CLSG-5010		1924	250	362	130	99	70	31
CLSG-5012		2309	300	412	130	99	70	34
CLSG-1002	100	664	50	182	165	130	95	19
CLSG-1004		1327	100	232	165	130	95	29
CLSG-1006		1991	150	282	165	130	95	40
CLSG-1008		3655	200	332	165	130	95	50
CLSG-10010		3318	250	382	165	130	95	61
CLSG-10012		3982	300	432	165	130	95	71
CLSG-1502	150	993	50	196	205	159	114	39
CLSG-1504		1986	100	246	205	159	114	52
CLSG-1506		2978	150	296	205	159	114	65
CLSG-1508		3971	200	346	205	159	114	78
CLSG-15010		4964	250	396	205	159	114	92
CLSG-15012		5957	300	446	205	159	114	105
CLSG-2002	200	1330	50	216	235	184	133	55
CLSG-2006		3989	150	316	235	184	133	91
CLSG-20012		7977	300	466	235	184	133	146
CLSG-2502	250	1832	50	235	275	216	165	102
CLSG-2506		5497	150	335	275	216	165	136
CLSG-25012		10993	300	485	275	216	165	207
CLSG-3002	300	2281	50	312	310	216	197	184
CLSG-3006		6843	150	412	310	216	197	232
CLSG-30012		13685	300	562	310	216	197	303
CLSG-4002	400	2800	50	375	350	267	216	270
CLSG-4006		8399	150	475	350	267	216	330
CLSG-40012		16797	300	625	350	267	216	421
CLSG-5002	500	3653	50	419	400	305	248	401
CLSG-5006		10959	150	519	400	305	248	480
CLSG-50012		21918	300	669	400	305	248	599
CLSG-6002	600	4276	50	429	430	330	267	474
CLSG-6006		12829	150	529	430	330	267	565
CLSG-60012		25659	300	679	430	330	267	701
CLSG-8002	800	5881	50	474	505	387	317	741
CLSG-8006		17644	150	574	505	387	317	880
CLSG-80012		35288	300	724	505	387	317	1058
CLSG-10002	1000	7329	50	564	560	432	343	1062
CLSG-10006		21986	150	664	560	432	343	1213
CLSG-100012		43972	300	814	560	432	343	1439

High Tonnage Hydraulic Cylinders (Double-Acting)

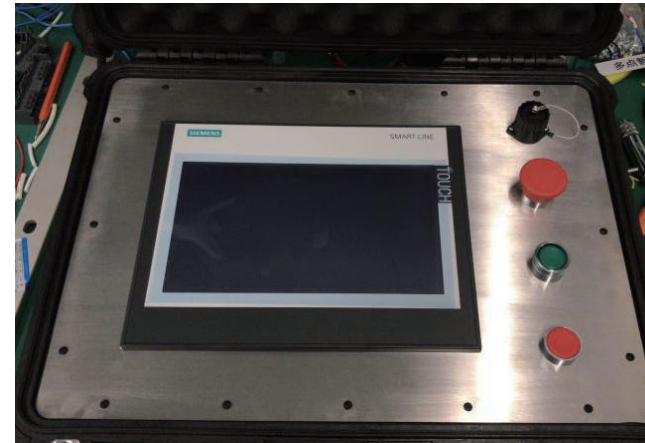
- Double-acting for fast and controlled advance and retract;
- Nitrocarburized surface resists side-loading and cyclic wear;
- 10% side-load resistance over full cylinder stroke;
- Weather protected, inside and out;
- Upper and lower replaceable bearings support the plunger throughout the stroke;
- Certified lifting eyes, Base mounting holes;
- Collar threads included on models up to 250 ton. Optional on 300 ton and higher;
- Maximum working pressure up to 10,000 psi (700 bar) ;
- Complies to ASME B30.1;



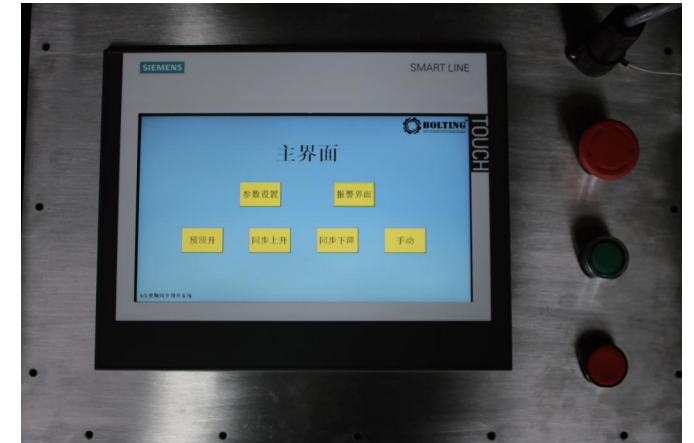
Model	Capacity		Oil Capacity (cm³)	Stroke (mm)	Collapsed Height (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Spindle Diameter (mm)	Weight (Kg)
	Class (Ton)	Push Pull							
CLRG-502	50	27	385	50	162	130	98.6	70	17
CLRG-504			770	100	212	130	98.6	70	20
CLRG-506			1155	150	262	130	98.6	70	23
CLRG-508			1540	200	312	130	98.6	70	27
CLRG-5010			1924	250	362	130	98.6	70	31
CLRG-5012			2309	300	412	130	98.6	70	34
CLRG-1002	100	43	664	50	182	165	130	95	19
CLRG-1004			1327	100	232	165	130	95	29
CLRG-1006			1991	150	282	165	130	95	40
CLRG-1008			2655	200	332	165	130	95	50
CLRG-10010			3318	250	382	165	130	95	61
CLRG-10012			3982	300	432	165	130	95	71
CLRG-1502	150	68	993	50	196	205	159	114	39
CLRG-1504			1986	100	246	205	159	114	52
CLRG-1506			2978	150	296	205	159	114	65
CLRG-1508			3971	200	346	205	159	114	78
CLRG-15010			4964	250	396	205	159	114	92
CLRG-15012			5957	300	446	205	159	114	105
CLRG-2002	200	89	1330	50	216	235	184	133.1	55
CLRG-2006			3989	150	316	235	184	133.1	91
CLRG-20012			7977	300	466	235	184	133.1	146
CLRG-2502	250	107	1832	50	235	275	216	165.1	102
CLRG-2506			5497	150	335	275	216	165.1	136
CLRG-25012			10993	300	485	275	216	165.1	207
CLRG-3002	300	106	2281	50	322	310	241	197.1	184
CLRG-3006			6843	150	422	310	241	197.1	232
CLRG-30012			13685	300	572	310	241	197.1	302
CLRG-4002	400	135	2800	50	375	350	267	216	270
CLRG-4006			8399	150	475	350	267	216	330
CLRG-40012			16797	300	625	350	267	216	421
CLRG-5002	500	173	3653	50	419	400	305	248	401
CLRG-5006			10959	150	519	400	305	248	480
CLRG-50012			21918	300	669	400	305	248	599
CLRG-6002	600	207	4276	50	429	430	330	267	474
CLRG-6006			12829	150	529	430	330	267	565
CLRG-60012			25659	300	679	430	330	267	701
CLRG-8002	800	271	5881	50	484	505	387	317	741
CLRG-8006			17644	150	584	505	387	317	868
CLRG-80012			35288	300	734	505	387	317	1058
CLRG-10002	1000	397	7329	50	564	560	432	343	1062
CLRG-10006			21986	150	664	560	432	343	1213
CLRG-100012			43972	300	814	560	432	343	1439
CLRG-16006	1600	528	35495	155	825	710	540	450	2179

PLC Control Synchronous Hoist Systems

- Systems include 4,8,12,16, 24,32,40,80 Lifting points, contact Power Team for larger SJS requirements up to 128 points and manifold systems up to 512 points;
- Positioning, lifting or lowering accuracy of $\pm 0.040''$ (1 mm).;
- Safety features included: full stop due to power failure, sensor failure, pressure overload, tolerance error, uncontrolled load movement, etc;
- Intuitive graphic, touch screen control;
- Displayed information included: startup diagnostics, position of lift points relative to starting position, pressure at each lift point, status of each cylinder and status of alarms;
- SJS works with a wide range of cylinder types, tonnages and strokes to meet your application requirements;
- Operating pressure (up to) 10,000 psi (700 bar);
- Easy setup and remote or on-site support;



Portable Controller



Main interface



Parameter Settings



Remote Controller

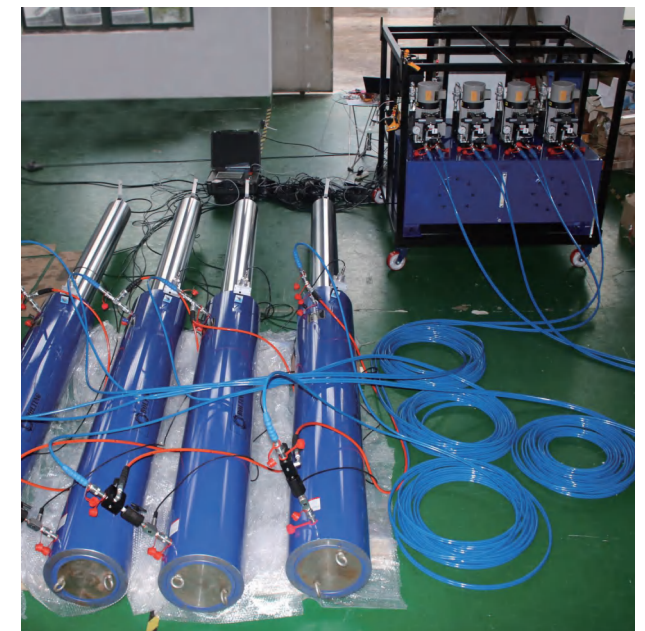
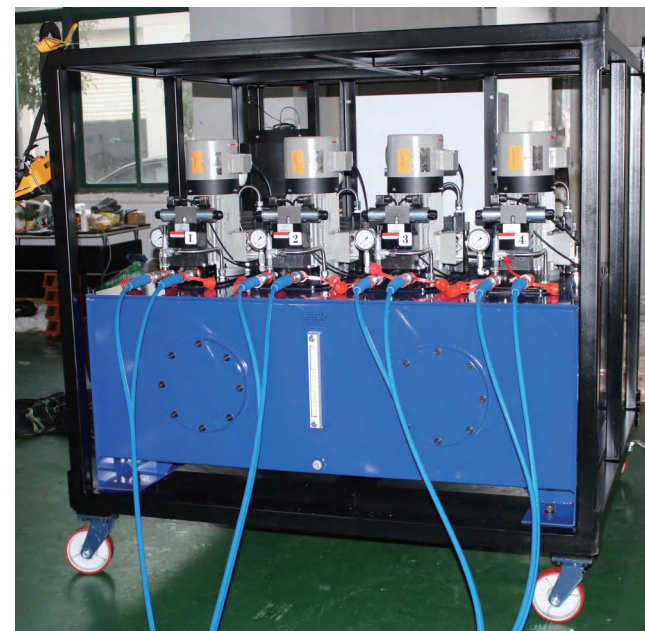


SJS-4



SJS-8

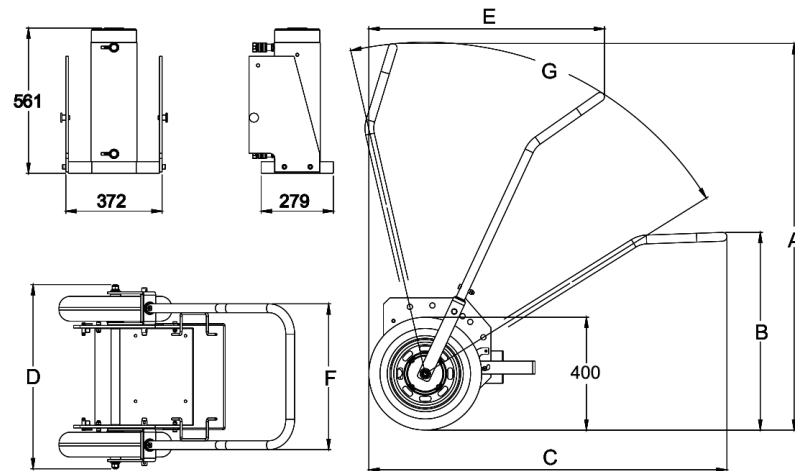
Number of Outlets	Model	Accuracy Over Full Stroke (mm)	Maximum Pressure (bar)	Flow (L/min)	Motor Voltage (V)	Motor Size (Kw)	Operating Mode
4	SJS-4	1	700	2*0.8-4	230/400	2*1.1	Touch Screen
8	SJS-8	1	700	2*1-5	400	2*1.5	Touch Screen
12	SJS-12	1	700	2*1-6.5	400	2*2.2	Touch Screen
16	SJS-16	1	700	4*1-6.5	400	2*2.2	Touch Screen
24	SJS-24	1	700	4*1-6.5	400	4*2.2	Touch Screen
32	SJS-32	1	700	4*1-6.5	400	4*2.2	Touch Screen
40	SJS-40	1	700	8*1-6.5	230/400	8*2.2	Touch Screen
80	SJS-80	1	700	8*3-15	230/400	8*5.5	Touch Screen



Four Point Synchronous Lifting System (Hydraulic Pump Station) 1600tons Four Point Synchronous Lifting System(1.8m stroke)

Mobile Hydraulic Lifting Cylinders

- Choice of air or electric driven hydraulic system;
- Narrow width wheels and redesigned wheel position for better ground clearance and balance when manoeuvring;
- Longer, robust 4-position lifting handle design for increased leverage and manoeuvrability on 100, 150 and 200 tonne models;
- Integral airline filter, lubricator and pressure regulator unit on air driven models;
- Push button remote hand pendant controller with 5 metre control cable;
- Load tonnage gauge fitted as standard on 100, 150 and 200 tonne models;



Model	Capacity Class (Ton)	Stroke (mm)	Collapsed Height (mm)	Hydraulic Pump Model	Valve Type (4-way, 3-position)	Cylinder Type	Return Type	Weight (Kg)
PREMB5013	50	333	535	PHM110D	Manual	RR-5013	Double-Acting	270
PRASA5013	50	333	535	SPA706D	Manual	RR-5013	Double-Acting	240
PREMB5020	50	511	759	PHM110D	Manual	RR-5020	Double-Acting	283
PRASA5020	50	511	759	SPA706D	Manual	RR-5020	Double-Acting	254
PREMB10013	100	333	549	PHM110D	Manual	RR-10013	Double-Acting	295
PRESA10013	100	333	549	SPA706D	Manual	RR-10013	Double-Acting	265
PREMB10018	100	460	713	PHM110D	Manual	RR-10018	Double-Acting	327
PRESA10018	100	460	713	SPA706D	Manual	RR-10018	Double-Acting	297
PREMB15013	150	333	607	PHM110D	Manual	RR-15013	Double-Acting	334
PRESA15013	150	333	607	SPA706D	Manual	RR-15013	Double-Acting	304
PREMB15032	150	815	1141	PHM110D	Manual	RR-15032	Double-Acting	448
PRESA15032	150	815	1141	SPA706D	Manual	RR-15032	Double-Acting	418

Flange Separators

- wedge-driven spreader, Jaws fully supported by wedge for excellent durability;
- Low friction provided by heavy-duty extended-life lubricant, ideal for flanges with narrow gaps;
- Compact and lightweight design;
- Ergonomically balanced handle included;
- Suitable for the offshore environment due to superior corrosion resistance;
- Quick adjustments for various tasks due to interchangeable shoes (both stepped and serrated);
- Easy and quick maintenance without special tools required;
- Includes female half coupler & mates to standard 3/8" male half coupler;



FSH-08



FSH-14



IFSH-14



FSH15-FL

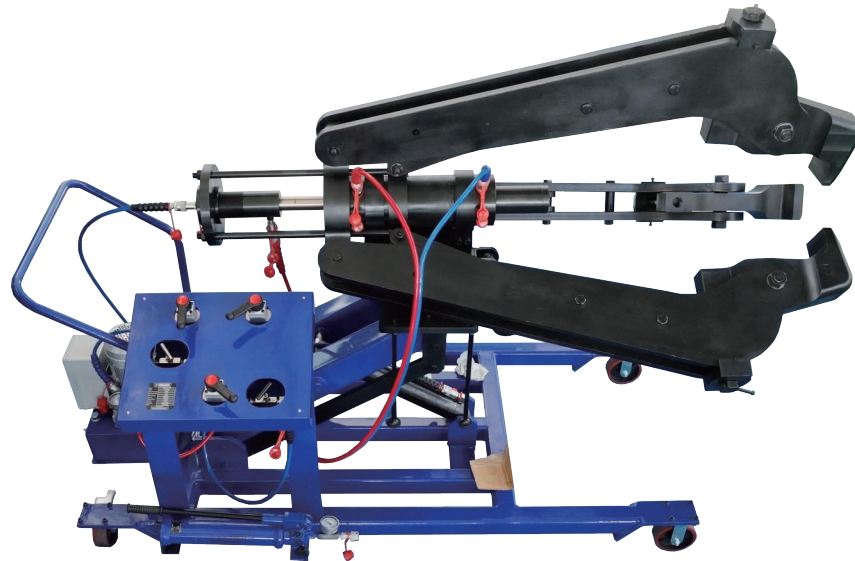


FSH15-ST

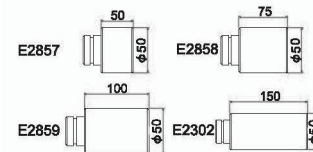
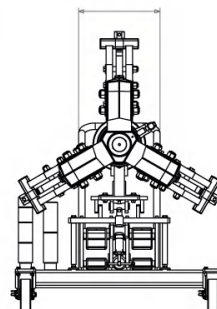
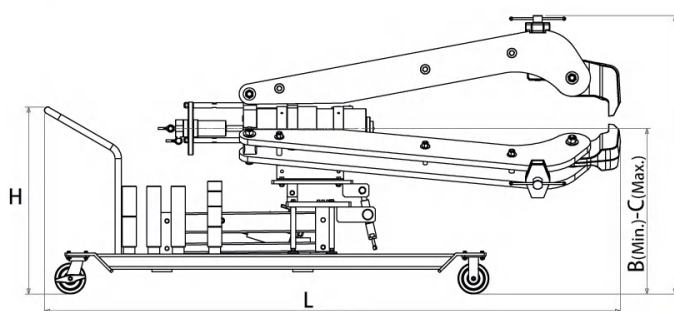
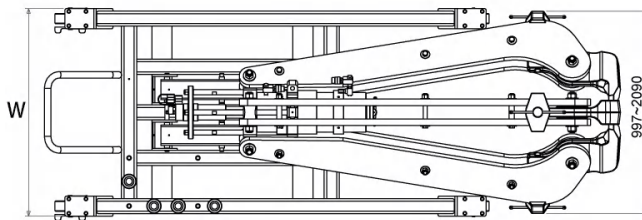
Model	Maximum Spreading Force(Ton)	Tip Clearance (mm)	Maximum Spread (mm)	Power Source	Oil Capacity (cm³)	Weight (Kg)
FSM-08	8	6	81	Mechanical	/	6.5
FSH-14	14	6	81	Hydraulic	78	7.1
IFSH-14	14	6	81	Hydraulic	78	10
FSH15-FL	15	6	16	Hydraulic	16	3.3
FSH15-ST	15	6	16	Hydraulic	16	3.3
FSH25-ST	25	8	25	Hydraulic	20	7.5

Vehicle Mounted Hydraulic Pullers

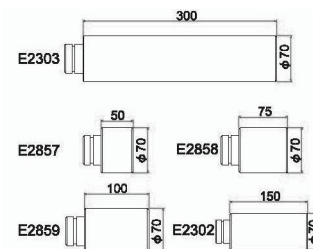
- Puller can be assembled in 2 or 3-jaw configurations;
- Hydraulically-actuated jaws allows cylinder to move in or out with a safe, secure grip on workpiece;
- Hydraulic lift system for easy, precise position of puller;
- Swivel casters give ease of mobility, Large wheels make movement of cart easy;
- Guards at pinch points protect operator;
- Puller can be mounted on cart 90 degrees to right or left of puller cart centerline, permitting use in tight quarters, such as between machinery;
- Self-centering design puller jaws will automatically grip workpiece evenly;



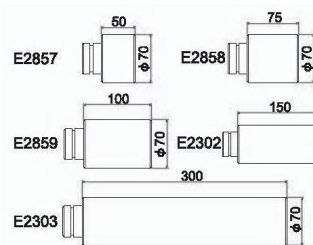
VHP100



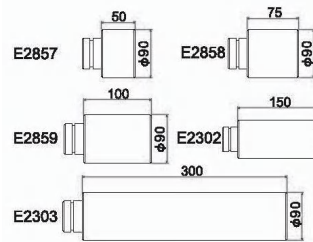
VHP50(Standard accessories)



VHP100(Standard accessories)



VHP150(Standard accessories)



VHP200(Standard accessories)

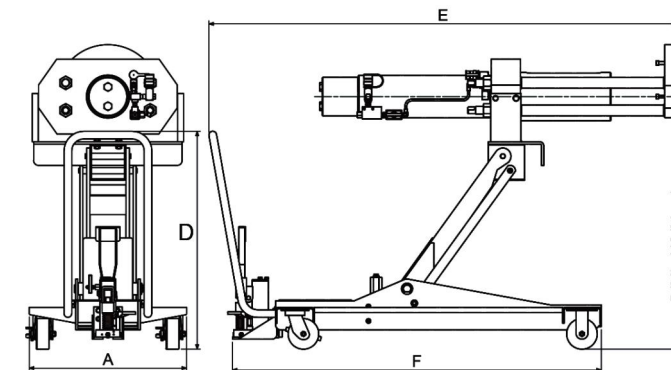
Model	Capacity (Ton)	Spread Range (mm)	Maximum Reach (mm)	Cylinder Stroke (mm)	Power Supply (V)	Dimension (mm)					Weight (Kg)
						B	C	L	W	H	
VHP50	50	200-1250	530-780	330	230/400	820	1093	2321	800	1155	480
VHP100	100	300-1650	970-1220	330	230/400	820	1326	2790	1030	1410	1083
VHP150	150	350-1650	970-1220	330	230/400	820	1337	2990	1030	1410	1200
VHP200	200	350-1650	970-1220	330	230/400	820	1337	2990	1030	1410	1500

Bearing Puller Pushers for rolling stock

- Dismantle or Install the tapered roller bearings easily and efficiently.
- Specially designed for the major bearing manufacturers.
- The simple, efficient and easy operation provided with pulling force - 100 Ton, Other tonnages can be customized.
- Single Unit with portable design for easy, convenient positioning and saving storage space.
- The basic equipment in most wheel shops.



WBP100 Bearing Puller Pushers



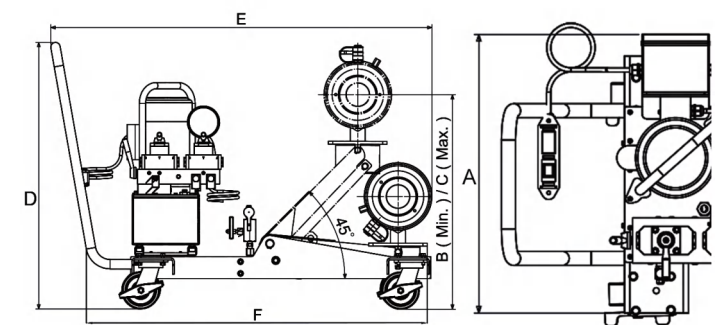
WBP100



Accessory Set for Metric & Inch(Class B~F)



WBPS100 Bearing Puller/Pushers-Side Shifters



WBPS100

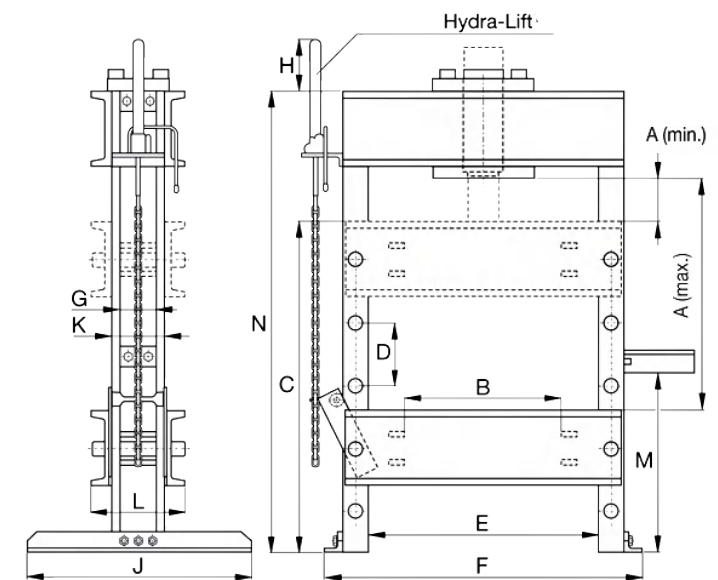


Accessory Set for Inch(Class G~GG)

Model	Capacity (tons)		Stroke (mm)	Dimension (mm)						Weight (Kg)
	Pull	Install		A	B	C	D	E	F	
WBP100	100	68	393	652	382	1047	900	1940-2209	1530	780
WBPS100	100	68	254	652	382	1047	900	1940-2209	1530	805
HWBP100	100	68	393	652	370	731	900	1299	1175	370
HWBPS100	100	68	254	652	370	731	900	1299	1175	410

Workshop Hydraulic Presses

- May be used horizontally for special pressing applications with user-supplied supports;
- Work-head has wide horizontal travel. Rugged press frame withstands load of rated capacity across full width of frame;
- Winch mechanism provides easy positioning of press bed, locks in place for insertion of retaining pins;
- Upper bolster can be lowered 11" for convenient positioning on repetitive jobs;
- Uprights are placed for easy side entry of bars or shafts for straightening or bending;
- Remote control hand switch, enables operator to view work from all sides with fingertip control of cylinder piston travel;

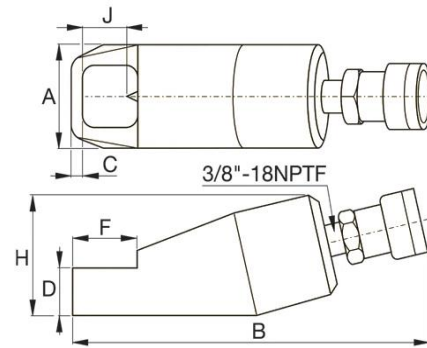


Model	Capacity (Ton)	Power type and pump model			Cylinder Type	Return Type	Stroke (mm)	Speed (mm/s)		Weight (Kg)
		Manual	Electric	Pneumatic				Rapid Advance	Pressing	
WHPE-1010	10		PHM55		RC-1010	Single	254	28	3.8	135
WHPA-1010				SPA701	RC-1010	Single	254	7.5	1.9	73
WHPM-1010		AHP702			RC-1010	Single	254	7.8	1.7	72
WHPE-1010D			PHM55D		RR-1010	Double	254	11	1.7	86
WHPE-1010D				SPA701D	RR-1010	Double	254	8.5	2.3	74
WHPE-2506	20		PHM55		RC-256	Single	152	16	1.6	274
WHPE-2511			PHM55		RC-2514	Single	355	23	3.6	316
WHPA-2514				SPA702	RC-2514	Single	355	3.6	1	277
WHPM-2514		AHP703			RC-2514	Single	355	4.9	0.7	281
WHPE-3014D			PHM55D		RR-3014	Double	355	42	0.6	310
WHPA-3014D	30			SPA702D	RR-3014	Double	355	18	2.8	327
WHPM-3014D		AHP705D			RR-3014	Double	355	3.6	0.7	301
WHPE-5006	50		PHM55		RC-5013	Single	330	20	1.9	472
WHPA-5006				SPA702	RC-506	Single	152	25	0.3	439
WHPM-5006		AHP703			RC-506	Single	152	19	0.7	439
WHPE-5006D			PHM55D		RC-506	Double	152	2.3	0.3	420
WHPE-5013			PHM55		RC-506	Single	152	7.7	0.8	422
WHPE-5013D			PHM55D		RR-5013	Double	330	26	0.8	479
WHPA-5013D				SPA702D	RR-5013	Double	330	20	1.9	477
WHPM-5013D		AHP703D			RR-5013	Double	330	19	0.7	454
WHPA-10010	100		PHM110		RC-10010	Single	254	14	0.4	748
WHPE-10010				SPA706	RC-10010	Single	254	14	1	781
WHPM-10010		AHP706			RC-10010	Single	254	10	0.4	751
WHPE-10013D			PHM110D		RR-10013	Double	330	11	1	791
WHPM-1006D		AHP706D			RR-1006	Double	152	10	0.4	755
WHPE15013D	150		PHM150D		RR15013	Double	330	9	1.4	1772
WHPE-20013D	200		PHM220D		RR-20013	Double	330	6.7	1	1772

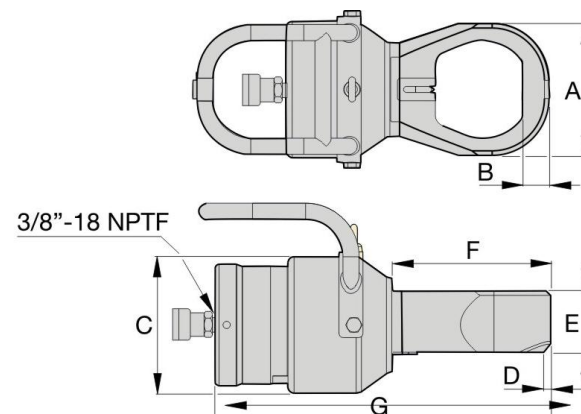
Model	Dimension (mm)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
WHPE-1010	62-1016	/	1187	125	473	632	-	-	756	108	189	889	1321
WHPA-1010	62-1016	/	1187	125	473	632	-	-	756	108	189	889	1321
WHPM-1010	62-1016	/	1187	125	473	632	-	-	756	108	189	889	1321
WHPE-1010D	62-1016	/	1187	125	473	632	-	-	756	108	189	889	1321
WHPE-1010D	62-1016	/	1187	125	473	632	-	-	756	108	189	889	1321
WHPE-2506	178-1384	/	1447	302	737	1029	102	337	762	133	272	673	1930
WHPE-2511	178-1384	/	1447	302	737	1029	102	337	762	133	272	673	1930
WHPA-2514	178-1384	/	1447	302	737	1029	102	337	762	133	272	673	1930
WHPM-2514	178-1384	/	1447	302	737	1029	102	337	762	133	272	673	1930
WHPE-3014D	178-1384	/	1447	302	737	1029	102	337	762	133	272	673	1930
WHPA-3014D	178-1384	/	1447	302	737	1029	102	337	762	133	272	673	1930
WHPM-3014D	178-1384	/	1447	302	737	1029	102	337	762	133	272	673	1930
WHPE-5006	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPA-5006	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPM-5006	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPE-5006D	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPE-5013	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPE-5013D	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPA-5013D	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPM-5013D	179-1233	477	1372	264	730	1086	127	222	914	184	365	781	1930
WHPA-10010	178-1080	508	1295	297	889	1295	171	222	914	222	438	842	1930
WHPE-10010	178-1080	508	1295	297	889	1295	171	222	914	222	438	842	1930
WHPM-10010	178-1080	508	1295	297	889	1295	171	222	914	222	438	842	1930
WHPE-10013D	178-1080	508	1295	297	889	1295	171	222	914	222	438	842	1930
WHPM-1006D	178-1080	508	1295	297	889	1295	171	222	914	222	438	842	1930
WHPE15013D	318-1232	711	1372	254	1219	1706	232	333	1118	333	555	1213	2286
WHPE-20013D	318-1232	711	1372	254	1219	1706	232	333	1118	333	555	1213	2286

Hydraulic Nut Splitters

- Compact and ergonomic design, easy to use;
- Unique angled head design;
- Single-acting, spring return cylinder;
- Heavy duty chisels can be reground;
- Nut Splitters include spare chisel, spare set screw and wrench used to secure the chisel;
- Maximum allowable hardness of nuts to be split is HRC-44;



Model	Capacity (tons)	Nut Rang (mm)	Bolt Rang (M)	Oil Capacity (cm³)	Dimension (mm)							Weight (Kg)
					A	B	C	D	F	H	J	
NC1019	5	10-19	M6-M12	15	40	170	7	19	19	28	21	1.2
NC1924	10	19-24	M12-M16	20	54	191	10	26	26	40	25	2
NC2432	15	24-32	M16-M22	60	64	222	13	29	29	51	33	3
NC3241	20	32-41	M22-M27	80	75	224	17	36	36	66	43	4.4
NC4150	35	41-50	M27-M33	155	94	288	21	45	45	74	54	8.2
NC5060	50	50-60	M33-M39	240	106	318	23	54	54	90	60	11.8
NC6075	90	60-75	M39-M48	492	156	393	26	72	72	110	80	34.1



Model	Capacity (tons)	Nut Range (mm)	Bolt Range (M)	Oil Capacity (cm³)	Dimension (mm)							Weight (Kg)
					A	B	C	D	E	F	G	
NS7080	103	70 - 80	M45-M52	377	132	28	180	8	81	186	412	37
NS7085	103	70 - 85	M45-M56	377	145	30	180	8	81	196	422	37
NS7095	103	70 - 95	M45-M64	377	160	32	180	8	81	201	432	38.5
NS70105	103	70-105	M45-M72	377	174	35	180	9	81	209	443	39.5
NS110115	193	110-115	M76-M80	819	189	36	234	3.7	111	234	472	69
NS110130	193	110-130	M76-M90	819	219	41	234	2.5	111	242	493	71.5

Hydraulic Torque Pumps

Electric Hydraulic Torque Pumps (Chinese Directional Valve)

- Three-stage plunger pump, a cost-effective hydraulic pump;
- Subject to brushless motor (without generating sparks) design, with low speed, good heat dissipation, it can still provide high flow at low power, equipped with hydraulic oil filter, and the hydraulic oil can be used for more than 300 hours;
- The motor has no action and automatically stops within 30 seconds to avoid misoperation;
- The hydraulic pump has thermal overload protection, and automatically stops when the oil temperature exceeds 80°C to protect the pump body;
- It is equipped with a compact frame to protect the pump body, lightweight and convenient for high-altitude operations on site;
- 5-meter detachable remote controller for remote control operation, convenient for transportation and maintenance of pump body;
- Lightweight, small in size, easy to carry, applicable for working conditions such as continuous work and high-altitude operations, and suitable for occasions with low explosion-proof requirements;



TP110 Hydraulic Torque Pump (without air cooling)



TPR110 Hydraulic Torque Pump

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
TP55	700	0.7-1.8-6.5	110/230	0.55	6	45*35*50	23.2
TPR55	700	0.7-1.8-6.5	110/230	0.55	6	45*35*50	25.2
TP110	700	1.0-3.1-8.0	110/230	1.1	8	45*35*50	25.2
TPR110	700	1.0-3.1-8.0	110/230	1.1	8	45*35*50	28.2

Optional four-interface splitter (model plus-4), allowing up to four hydraulic wrenches to be used simultaneously, with even output pressure;

Hydraulic Torque Pumps

Smart Electric Hydraulic Torque Pumps (Chinese Directional Valve)

- Subject to a mechanical pressure gauge and electronic LED digital display with dual closed-loop control display, the pressure unit can be selected in units such as Bar, MPa, and Psi. The LCD screen can be operated to switch units such as N.m, Ft. lbs, and the Chinese and English, metric and imperial systems can be selected for the system;
- The dual adjustment mode of mechanical knob and button makes the operation simpler and more convenient;
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- There are three standard modes to choose from: torque mode, bolt mode, and gear mode;
- The automatic mode and manual mode can be switched at will, without the need to long press the button. The fully automatic tightening mode can be selected after only pressing once, saving time and effort;
- The body can store 10,000 pieces of fastening data, which can be connected to the USB or mobile equipment to monitor and export fastening data (workstation, operator, torque, and date);
- Optional: angle mode and sensor mode;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;



TPR110-AI Smart Electric Hydraulic Torque Pump



TPR110-AI Smart Electric Hydraulic Torque Pump

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
TP55-AI	700	0.7-1.8-6.5	110/230	0.55	6	45*35*50	23.2
TPR55-AI	700	0.7-1.8-6.5	110/230	0.55	6	45*35*50	25.2
TP110-AI	700	1.0-3.1-8.0	110/230	1.1	8	45*35*50	25.2
TPR110-AI	700	1.0-3.1-8.0	110/230	1.1	8	45*35*50	28.2

Hydraulic Torque Pumps

Electric Hydraulic Torque Pumps (HAWE Directional Valve)

- A three-stage plunger pump is commonly used, which is 2-3 times faster than a two-stage pump;
- Subject to brushless motor (without generating sparks) design, with low speed, good heat dissipation, it can still provide high flow at low power, equipped with hydraulic oil filter, and the hydraulic oil can be used for more than 300 hours;
- The motor has no action and automatically stops within 30 seconds to avoid misoperation;
- It has thermal overload protection, and automatically stops when the oil temperature exceeds 80℃ to protect the pump body;
- It is equipped with a compact frame to protect the pump body, lightweight and convenient for high-altitude operations on site;
- 5-meter detachable remote controller for remote control operation, convenient for transportation and maintenance of pump body;
- Lightweight, small in size, applicable for continuous and long-term work, such as high-intensity operations such as installation or repair, and applicable for occasions with low explosion-proof requirements;



PE55 Hydraulic Torque Pump



PE110-4 Hydraulic Torque Pump (four-interface)

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
PE55	700	0.7-1.8-6.5	110/230	0.55	6	40*30*40	23.1
PE110	700	1.0-3.1-8.0	110/230	1.1	8	43*30*42	28.2
PE220	700	1.6-5.2-12	110/230/380	2.2	20	50*33*50	40.6
PES300	700	2.4-12	110/230/380	3.0	33	61.5*45*60	50
PES450	700	3-15	110/230/380	4.5	33	61.5*45*60	50
PES550	700	4-22	110/230/380	5.5	33	61.5*45*60	50
PES750	700	6.4-25	110/230/380	7.5	33	61.5*45*60	50

Optional four-interface splitter (model plus-4), allowing up to four hydraulic wrenches to be used simultaneously, with even output pressure;
The PES series is a customized product for servo motors.

Hydraulic Torque Pumps

Smart Electric Hydraulic Torque Pumps (HAWE Directional Valve)

- Subject to a mechanical pressure gauge and electronic LED digital display with dual closed-loop control display, the pressure unit can be selected in units such as Bar, MPa, and Psi. The LCD screen can be operated to switch units such as N.m, Ft. lbs, and the Chinese and English, metric and imperial systems can be selected for the system;
- The dual adjustment mode of mechanical knob and button makes the operation simpler and more convenient;
- The counter calculates the number of times it has been used in real-time, making it clear whether maintenance is needed immediately;
- There are three standard modes to choose from: torque mode, bolt mode, and gear mode;
- The automatic mode and manual mode can be switched at will, without the need to long press the button. The fully automatic tightening mode can be selected after only pressing once, saving time and effort;
- The body can store 10,000 pieces of fastening data, which can be connected to the USB or mobile equipment to monitor and export fastening data (workstation, operator, torque, and date);
- Optional: angle mode and sensor mode;
- Optional: Wireless communication module can be added to connect to the upper computer or APP;



PE55-AI Hydraulic Torque Pump (wireless remote control)



PE110-4AI Hydraulic Torque Pump (four-interface)

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
PE55-AI	700	0.7-1.8-6.5	110/230	10.55	6	40*30*40	23.2
PE110-AI	700	1.0-3.1-8.0	110/230	1.1	8	43*30*42	28.2
PE220-AI	700	1.6-5.2-12	110/230/380	2.2	20	50*33*50	50
PES300-AI	700	2.4-12	110/230/380	3.0	33	61.5*45*60	50
PES450-AI	700	3-15	110/230/380	4.5	33	61.5*45*60	50
PES550-AI	700	4-22	110/230/380	5.5	33	61.5*45*60	50
PES750-AI	700	6.4-25	110/230/380	7.5	33	61.5*45*60	50

Optional four-interface splitter (model plus-4), allowing up to four hydraulic wrenches to be used simultaneously, with even output pressure;
The PES series is a customized product for servo motors.

Hydraulic Torque Pumps

Explosion-protected Electric Hydraulic Torque Pump

- 230/380V, 50/60Hz optional, equipped with hydraulic oil filter, oil circulation cooling system to ensure long-term continuous operation;
- The power cord is 10 meters long, and the remote control handle cable is 10 meters long, which is equipped with a compact frame roller car to protect the pump body. It is lightweight and convenient for high-altitude operations on site;
- Explosion-proof testing certification has been passed for all electrical accessories and certificates are provided; It is applicable for explosion-proof applications in Zone 2, Zone 1, and Zone 0, widely used in explosion-proof environments such as dust, coal mines, petrochemicals, natural gas, etc.;
- Protection grade IP65, overall explosion-proof grade: ExdIIBT4. Other higher explosion-proof grades can also be selected: ExdIICT4/CT5/CT6, etc.;
- If necessary, the Company can fully cooperate in implementing the required certification work to comply with relevant laws and regulations;



TP110-4EX (Chinese Directional valve)



PE110-4EX (HAWE Directional valve)

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
TP110-4EX	700	0.7-1.8-6.5	230/400	1.1	20	53*50*52	35.6
PE110-4EX	700	1.0-3.1-8.0	230/400	1.1	20	53*50*52	40.2
PE150-4EX	700	1.6-5.2-12	230/400	1.5	33	60*53*63	45.6
PES300-4EX	700	2.4-12	110/230/400	3.0	33	61.5*45*60	50
PES450-4EX	700	3-15	110/230/400	4.5	33	61.5*45*60	50
PES550-4EX	700	4-22	110/230/400	5.5	33	61.5*45*60	50
PES750-4EX	700	6.4-25	110/230/400	7.5	33	61.5*45*60	50

Optional four-interface splitter (model plus-4), allowing up to four hydraulic wrenches to be used simultaneously, with even output pressure;
The PES series is a customized product for servo motors.

Hydraulic Torque Pumps

Explosion-protected Pneumatic Hydraulic Torque Pump (HAWE Directional Valve)

- A three-stage plunger pump, commonly used, has a flow rate that is more than three times faster than a typical two-stage pump;
- Rotary pneumatic motor, suitable for places where pneumatic energy is the preferred energy source, such as explosion-proof environments in petroleum, chemical, coal mines, etc.;
- Compressed air in the workshop from 2bar-8bar is sufficient for operation;
- The oil circulation cooling system can ensure long-term continuous operation;
- It is equipped with a compact frame to protect the pump body, lightweight and convenient for high-altitude operations on site;



Model	Pressure (bar)	Flow (L/min)	Air Consumption (L/min)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
PA86	700	0.9-2.5-7.6	2800	3.5	8	40*26*40	30
Optional four-interface splitter (model plus-4), allowing up to four hydraulic wrenches to be used simultaneously, with even output pressure;							

Hydraulic Tensioner Pumps

Explosion-protected Electric Hydraulic Torque Pump

- The PES series hydraulic stretching pumps all use servo motors and have CNC one click operation function, which is simple and convenient;
- Clear and visible pressure, equipped with self diagnosis and testing functions, automatically maintaining and supplementing pressure;
- The electrical equipment is equipped with an air cooler, which can work continuously for 8 hours;
- Beautiful exterior design, aluminum alloy fuel tank, easy to dissipate heat, compact size, light weight, and easy to carry;
- There are multiple models available according to different needs, and they are equipped with 6L and 8L fuel tanks for easy selection;



PEM1506 (Mechanical pressure gauge)



PES1506 (Pressure switch, automatic pressure compensation)



PES1506A (Servo motor, PLC control)

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
PEM1506	1500	0.15-3	110/230	1.1	6	35 x 25 x 40	20.1
PEM1508	1500	0.15-3	110/230	1.1	8	35 x 25 x 45	22.2
PEA1506	1500	0.15-3	110/230	1.1	6	35 x 25 x 40	20.1
PEA1508	1500	0.15-3	110/230	1.1	8	35 x 25 x 45	22.2
PES1506	1500	0.2-3.5	110/230	1.5	6	35 x 25 x 40	20.1
PES1508	1500	0.2-3.5	110/230	1.5	8	35 x 25 x 45	22.2
PES1506A	1500	0.2-3.5	110/230	1.5	6	35 x 25 x 40	21.1
PES1508A	1500	0.2-3.5	110/230	1.5	8	35 x 25 x 45	23.2
Optional four interface splitter (model plus -4), allowing up to four hydraulic stretchers to be used simultaneously, with even output pressure;							

Hydraulic Tensioner Pumps

Electric Hydraulic Tensioner Pumps

- The PTE series hydraulic tensioning pump adopts a brushless motor, which can still provide large flow at low power, and the hydraulic oil can be used for more than 300 hours; Equipped with a hydraulic oil filter, the hydraulic oil can be used for more than 300 hours;
- Automatically shut down when reaching the set pressure to avoid misoperation, with automatic pressure replenishment function;
- Equipped with a compact frame to protect the pump body, lightweight and convenient for high-altitude operations on site;
- 5-meter detachable remote control cable, remote control operation, convenient for transportation and maintenance of pump body;
- There are multiple models available according to different needs, and they are equipped with 12L, 20L, and 33L fuel tanks for easy selection;



PTE20012 Electric Hydraulic Tensioner Pump



PTES20020 Electric Hydraulic Tensioner Pump

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
PTE20012	2000	0.1-2	110/230/380	1.1	12	38x25x40	25.2
PTE28012	2800	0.1-2	110/230/380	1.1	12	45x35x45	28.3
PTE40012	4000	0.1-2	110/230/380	1.1	12	45x35x45	30.1
PTES20020	2000	0.2-4	110/230/380	3/4.5/5.5/7.5	20	61.5x45x60	35.2
PTES28020	2800	0.2-4	110/230/380	3/4.5/5.5/7.5	20	61.5x45x60	38.3
PTES40020	4000	0.2-4	110/230/380	3/4.5/5.5/7.5	20	61.5x45x60	40.3

The above are standard products. For other special requirements such as power, flow rate, and higher pressure, please contact the local authorized agency or our technical engineer; The PTES series is a customized product for high flow servo motors.

Hydraulic Tensioner Pumps

Explosion proof Hydraulic Tensioner Pumps

- 230/380V, 50/60Hz optional, Maximum working pressure 2000bar;
- The power cord is 10 meters long, and the remote control handle cable is 10 meters long, which is equipped with a compact frame roller car to protect the pump body. It is lightweight and convenient for high-altitude operations on site; Explosion-proof testing certification has been passed for all electrical accessories and certificates are provided;
- It is applicable for explosion-proof applications in Zone 2, Zone 1, and Zone 0, widely used in explosion-proof environments such as dust, coal mines, petrochemicals, natural gas, etc.;
- Protection grade IP65, overall explosion-proof grade: ExdIIBT4. Other higher explosion-proof grades can also be selected: ExdIICT4/CT5/CT6, etc.;



PTEX150122 (230V)



PTEXR150122 (without air cooling)



PTEX150124 (400V)



PTEXR150124 (without air cooling)

Model	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (Kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
PTEX150122	1500	0.15-3	110/230	1.1	12	45x35x45	25.3
PTEXR150122	1500	0.15-3	110/230	1.1	12	45x35x45	28.1
PTEX150124	1500	0.15-3	380/400	1.1	12	45x35x45	27.3
PTEXR150124	1500	0.15-3	380/400	1.1	12	45x35x45	30.1

Hydraulic Tensioner Pumps

Pneumatic Hydraulic Tensioner Pumps

- General purpose, high pressure air driven pump unit for products requiring up to 6000bar hydraulic pressure;
- Compact, lightweight, rugged steel frame for protection and easy handling;
- Prelubricated pump element, does not require an airline lubricator;
- Easily adjustable output pressure control;
- Integrated and protected easy to read glycerin filled gauge;
- Safety relief valve limits output pressure;



Model	Pressure (bar)	Flow (L/min)	Capacity (V)	Pressure Ratio	Outlet Thread	Dimension (cm)	Weight (Kg)
PTA15010	1500	0.1-3	9.5	255:1	G1/4"	42*42*39	28
PTA20010	2000	0.1-3	9.5	255:1	G1/4"	42*42*39	28
PTA28010	2800	0.1-3	9.5	400:1	9/16"-18UNF	42*42*39	32
PTA40010	4000	0.1-3	9.5	500:1	9/16"-18UNF	45*45*49	40
PTA60010	6000	0.1-3	9.5	800:1	9/16"-18UNF	45*45*49	45

The above are standard products. For other special requirements such as power, flow rate, and higher pressure, please contact the local authorized agency or our technical engineer;

Manual Hydraulic Tensioner Pumps

- General purpose, high pressure air driven pump unit for products requiring up to 6000bar hydraulic pressure;
- Compact, lightweight, rugged steel frame for protection and easy handling;
- Prelubricated pump element, does not require an airline lubricator;
- Easily adjustable output pressure control;
- Integrated and protected easy to read glycerin filled gauge;



Model	Pump Type	Pressure (bar)	Capacity (L)	Oil Discharge Per Stroke (cm³)		Outlet Thread	Dimension (cm)	Weight (Kg)
				Low Pressure	High Pressur			
PTM1602	Single Acting	1600	1.6	32	1.5	G1/4"	60*15*19	6.8
PTM2002	Single Acting	2000	1.6	32	1.3	G1/4"	60*15*19	6.8
PTM2802	Single Acting	2800	2.0	32	1.25	G1/4"	60*15*19	7.0
PTM3002	Single Acting	3000	2.0	32	0.7	9/16"-18UNF	60*15*19	7.0

Hydraulic Cylinder Pumps

Electric Hydraulic Cylinder Pumps

- Electric hydraulic pumps are pray coating, anti-corrosion, pollution-resistant, durable;
- Lightweight and compact design make it easy to be moved;
- Double speed pump design, with the high flow in low pressure;
- The actuator can be fast moved on no-load status;
- Internal high and low pressure automatic reversing valve and external adjustable pressure valve to make it easy to calibrate the working pressure and avoid the over load;
- Motor starter has the function of preventing overload, overheat and leakage. The pump can be matched with both Double Acting and Single Acting cylinders;
- Choosing the Solenoid Valve valve electric hydraulic pump, remote operation can be realized;



PHM220D (Manual Valve)



PHE220D (Solenoid Valve)

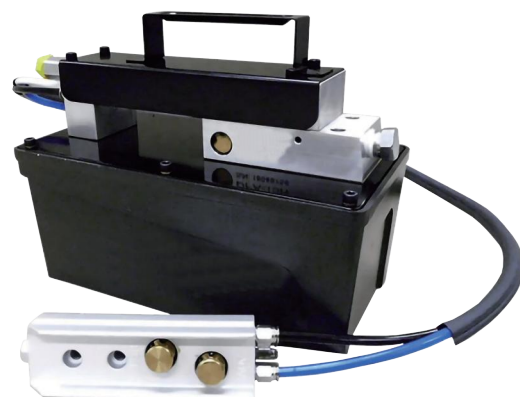
Model	Pump Type	Valve Type	Pressure (bar)	Flow (L/min)	Power Supply (V)	Power (kw)	Capacity (L)	Dimension (cm)	Weight (Kg)
PHM55	Single Acting	Manual Valve	700	0.5-3	110/230	0.55	6	33*30*35	18.3
PHM55D	Double Acting	Manual Valve	700	0.5-3	110/230	0.55	6	33*30*35	19
PHM110	Single Acting	Manual Valve	700	0.8-4	110/230	1.1	8/12/20/33	43*33*45	23.5
PHM110D	Double Acting	Manual Valve	700	0.8-4	110/230	1.1	8/12/20/33	33*30*35	20
PHM150D	Double Acting	Manual Valve	700	1.0-5	230/400	1.5	8/12/20/33	53*33*52	45
PHE150D	Double Acting	Solenoid Valve	700	1.0-5	230/400	1.5	8/12/20/33	53*33*52	50
PHM220D	Double Acting	Manual Valve	700	1.0-6.5	230/400	2.2	20/33/60	53*37*60	55
PHE220D	Double Acting	Solenoid Valve	700	1.0-6.5	230/400	2.2	20/33/60	53*37*60	60
PHE300D	Double Acting	Solenoid Valve	700	1.6-9	400	3.0	20/33/60	81.5*55*80	80
PHE450D	Double Acting	Solenoid Valve	700	2-12	400	4.5	20/33/60	81.5*55*80	90
PEH550D	Double Acting	Solenoid Valve	700	3-15	400	5.5	20/33/60	81.5*55*80	100

The above are standard products. For other special requirements such as power, flow rate, and higher pressure, please contact the local authorized agency or our technical engineer;

Hydraulic Cylinder Pumps

Pneumatic Hydraulic Cylinder Pumps

- Working pressure 700 bar;
- Compact, lightweight & powerful;
- Standard 7 bar air input pressure required;
- Choice of 2-way or 4-way control valves;
- Internal safety overload valve;
- Reservoir oil sight level gauge;
- Standard oil reservoir capacities up to 10 litres;



SPA701R



SPA701



SPA702



SPA702D



SPA706D

Model	Pump Type	Pressure (bar)	Flow (L/min)	Air Consumption (L/min)	Capacity (L/min)	Dimension (L)	Weight (Kg)
SPA701	Single Acting	700	0.15-1.16	255	1.7	26*13*22	8
SPA701D	Double Acting	700	0.15-1.16	255	1.7	26*13*22	8
SPA701R	Double Acting	700	0.15-1.16	255	1.7	26*13*22	8
SPA702	Single Acting	700	0.15-3	510	4.5	33*21*20	13.9
SPA702D	Double Acting	700	0.15-3	510	4.5	33*21*20	13.9
SPA706	Single Acting	700	0.5-5	2000	8/12/20/33	33*21*20	13.9
SPA706D	Double Acting	700	0.5-5	2000	8/12/20/33	33*21*20	13.9

Hydraulic Cylinder Pumps

Manual Valve Hydraulic Cylinder Pump

- All Manual Valve pumps have two major features - sturdy and durable structure and low handle operating force;
- Aluminum alloy structure (AHP701-705), with a fully grip and anti loosening design for oil return torque, truly suitable for frequent daily use and industrial grade requirements;
- The 700bar ultra-high pressure model has a lightweight design that better meets the needs of users;



AHP701



AHP702



AHP703



AHP705D

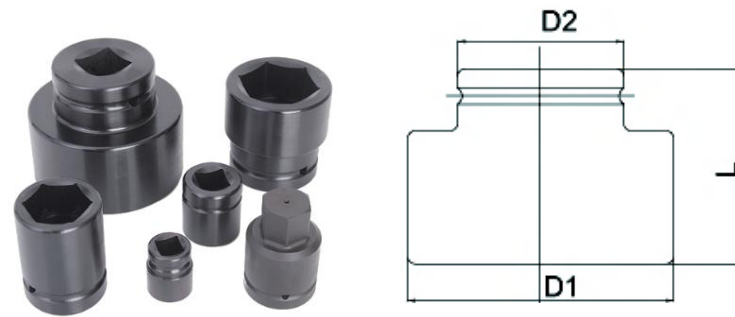


AHP706D

Model	Pump Type	Pressure (bar)	Capacity (L)	Oil Discharge Per Stroke (cm³)		Outlet Thread	Dimension (cm)	Weight (Kg)
				Low Pressure	High Pressure			
AHP701	Single Acting	700	0.2	12.9	1	3/8"-NPT	34*20*15	2.3
AHP702	Single Acting	700	0.75	12.9	2.3	3/8"-NPT	62.5*17*19	3.5
AHP703	Single Acting	700	1.6	12.9	2.3	3/8"-NPT	75*17*19	6
AHP703D	Double Acting	700	1.6	12.9	2.3	3/8"-NPT	75*17*19	7
AHP705	Single Acting	700	2.8	12.9	2.3	3/8"-NPT	60*14*19	16.5
AHP705D	Double Acting	700	2.8	12.9	2.3	3/8"-NPT	60*14*19	17
AHP706	Single Acting	700	7.45	126	4.75	3/8"-NPT	67.5*32*27	27
AHP706D	Double Acting	700	7.45	126	4.75	3/8"-NPT	67.5*32*27	27.7

Sockets and Hexagon Reducers

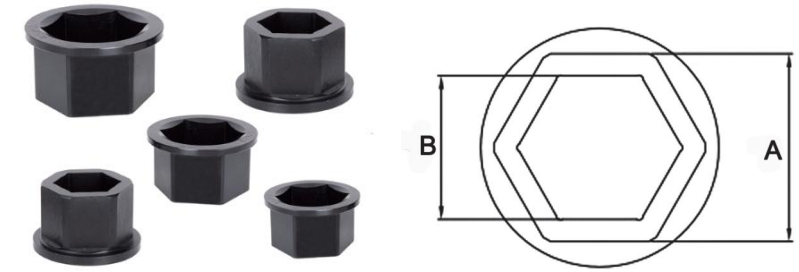
- Made of special material, resistant and durable;
Produce according to DIN standard
- 3121&3129;
- Customized is acceptable;



Model	Drive Shaft (Inch)	Bolt Diameter (mm)	Across Flat (mm)	Dimension (mm)			Model	Drive Shaft (Inch)	Bolt Diameter (mm)	Across Flat (mm)	Dimension (mm)		
				L1	D1	D2					L1	D1	D2
HS124	3/4"	M16	S24	46	38	35	HS385	1-1/2"	M56	S85	114	130	90
HS127	3/4"	M18	S27	48	42	36	HS390	1-1/2"	M60	S90	116	138	92
HS130	3/4"	M20	S30	50	46	38	HS395	1-1/2"	M64	S95	120	145	94
HS134	3/4"	M22	S34	52	48	40	HS3100	1-1/2"	M68	S100	124	153	96
HS136	3/4"	M24	S36	54	52	42	HS3105	1-1/2"	M72	S105	126	160	100
HS141	3/4"	M27	S41	57	58	44	HS3110	1-1/2"	M76	S110	129	176	110
HS146	3/4"	M30	S46	60	64	46	HS3115	1-1/2"	M80	S115	133	182	116
HS150	3/4"	M33	S50	63	70	48	HS3120	1-1/2"	M85	S120	138	188	122
HS155	3/4"	M36	S55	66	76	50	HS3130	1-1/2"	M90	S130	148	199	133
HS230	1"	M20	S30	65	45	45	HS650	2-1/2"	M33	S50	76	114	114
HS234	1"	M22	S34	67	47	47	HS655	2-1/2"	M36	S55	99	114	114
HS236	1"	M24	S36	69	52	52	HS660	2-1/2"	M39	S60	102	114	114
HS241	1"	M27	S41	72	59	52	HS665	2-1/2"	M42	S65	105	114	114
HS246	1"	M30	S46	75	65	52	HS670	2-1/2"	M45	S70	108	114	114
HS250	1"	M33	S50	77	71	52	HS675	2-1/2"	M48	S75	113	116	116
HS255	1"	M36	S55	77	79	52	HS680	2-1/2"	M52	S80	120	123	120
HS260	1"	M39	S60	79	84	53	HS685	2-1/2"	M56	S85	124	130	124
HS265	1"	M42	S65	83	90	56	HS690	2-1/2"	M60	S90	126	138	128
HS270	1"	M45	S70	86	98	61	HS695	2-1/2"	M64	S95	130	145	132
HS275	1"	M48	S75	89	104	64	HS6100	2-1/2"	M68	S100	134	153	136
HS336	1-1/2"	M24	S36	79	63	69	HS6105	2-1/2"	M72	S105	138	160	140
HS341	1-1/2"	M27	S41	87	63	69	HS6110	2-1/2"	M76	S110	142	168	144
HS346	1-1/2"	M30	S46	90	69	69	HS6115	2-1/2"	M80	S115	146	175	148
HS350	1-1/2"	M33	S50	92	76	76	HS6120	2-1/2"	M85	S120	152	182	150
HS355	1-1/2"	M36	S55	92	82	82	HS6130	2-1/2"	M90	S130	156	196	152
HS360	1-1/2"	M39	S60	94	90	86	HS6135	2-1/2"	M95	S135	162	212	155
HS365	1-1/2"	M42	S65	97	99	86	HS6145	2-1/2"	M100	S145	167	228	158
HS370	1-1/2"	M45	S70	100	108	86	HS6150	2-1/2"	M105	S150	172	230	160
HS375	1-1/2"	M48	S75	103	116	86	HS6155	2-1/2"	M110	S155	177	232	160
HS380	1-1/2"	M52	S80	110	123	88	HS6165	2-1/2"	M115	S165	182	240	174

Sockets and Hexagon Reducers

- Made of special material, resistant and durable;
- Produce according to DIN standard 3121&3129;
- Customized is acceptable;



Hydraulic Wrench Model	Work Head Model	Across Flat (mm)	Hexagon Reducers Specifications					
			A→B (mm)	A→B (mm)	A→B (mm)	A→B (mm)	A→B (mm)	A→B (mm)
2XLCT	2CT-50	50	50/46	50/41	50/36	50/32	50/30	50/27
	2CT-46	46	46/41	46/36	46/32	46/30	46/27	
	2CT-41	41	41/36	41/32	41/30	41/27		
	2CT-36	36	36/32	36/30	36/27			
	2CT-32	32	32/30	32/27				
	2CT-30	30	30/27					
	2CT-27	27						
4XLCT	4CT-65	65	65/60	65/55	65/50	65/46	65/41	65/36
	4CT-60	60	60/55	60/50	60/46	60/41	60/36	60/32
	4CT-55	55	55/50	55/46	55/41	55/36	55/32	55/30
	4CT-50	50	50/46	50/41	50/36	50/32	50/30	
	4CT-46	46	46/41	46/36	46/32	46/30	46/27	
	4CT-41	41	41/36	41/32	41/30	41/27		
	4CT-36	36	36/32	36/30	36/27			
	4CT-32	32	32/30	32/27				
	4CT-30	30	30/27					
	4CT-27	27						
8XLCT	8CT-90	90	90/85	90/80	90/75	90/70	90/65	90/60
	8CT-85	85	85/80	85/75	85/70	85/65	85/60	85/55
	8CT-80	80	80/75	85/70	85/65	85/60	85/55	85/50
	8CT-75	75	75/70	75/65	75/60	75/55	75/50	
	8CT-70	70	70/65	70/60	70/55	70/50		
	8CT-65	65	65/60	65/55	65/50			
	8CT-60	60	60/55	60/50				
	8CT-55	55	55/50					
	8CT-50	50						

Hydraulic Wrench Model	Work Head Model	Across Fla (mm)	Hexagon Reducers Specifications					
			A→B (mm)	A→B (mm)	A→B (mm)	A→B (mm)	A→B (mm)	A→B (mm)
14XLCT	14CT-115	115	115/110	115/105	115/100	115/95	115/90	115/85
	14CT-110	110	110/105	110/100	110/95	110/90	110/85	110/80
	14CT-105	105	105/100	105/95	105/90	105/85	105/80	105/75
	14CT-100	100	100/95	100/90	100/85	100/80	100/75	100/70
	14CT-95	95	95/90	95/85	95/80	95/75	95/70	95/65
	14CT-90	90	90/85	90/80	90/75	90/70	90/65	
	14CT-85	85	85/80	85/75	85/70	85/65		
	14CT-80	80	80/75	80/70	80/65			
	14CT-75	75	75/70	75/65				
	14CT-70	70	70/65					
	14CT-65	65						
18XLCT	18CT-135	135	135/130	135/120	135/115	135/110	135/105	135/100
	18CT-130	130	130/120	130/115	130/110	130/105	130/100	130/95
	18CT-120	120	120/115	120/110	120/105	120/100	120/95	120/90
	18CT-115	115	115/110	115/105	115/100	115/95	115/90	115/85
	18CT-110	110	110/105	110/100	110/95	110/90	110/85	110/80
	18CT-105	105	105/100	105/95	105/90	105/85	105/80	105/75
	18CT-100	100	100/95	100/90	100/85	100/80	100/75	
	18CT-95	95	95/90	95/85	95/80	95/75		
	18CT-90	90	90/85	90/80	90/75			
	18CT-85	85	85/80	85/75				
	18CT-80	80	80/75					
	18CT-75	75						
30XLCT	30CT-155	155	155/145	155/130	155/120	155/115	155/110	155/105
	30CT-145	145	145/130	145/120	145/115	145/110	145/105	145/100
	30CT-130	130	130/120	130/115	130/110	130/105	130/100	130/95
	30CT-120	120	120/115	120/110	120/105	120/100	120/95	120/90
	30CT-115	115	115/110	115/105	115/100	115/95	115/90	115/85
	30CT-110	110	110/105	110/100	110/95	110/90	110/85	110/80
	30CT-105	105	105/100	105/95	105/90	105/85	105/80	
	30CT-100	100	100/95	100/90	100/85	100/80		
	30CT-95	95	95/90	95/85	95/80			
	30CT-90	90	90/85	90/80				
	30CT-85	85	85/80					
	30CT-80	80						

Hydraulic Hoses

- Nylon core tube with polyester fiber reinforcement;
- Hoses are equipped with plastic hose guards;
- Withstands the minimum SAE bend radius without shortening service life;
- These hoses last up to seven times longer than rubber hose;
- Suitable for continuous service at temperatures from -30° to 130°;



HT70(700bar)



HT70D(700bar)



HT180(1800bar)



HT250(2500bar)



HT250(2500bar)

Model	Working Pressure (bar)	Burst Pressure (tons)	Working Temperature	Hose Type	Inner diameter (mm)	Outer diameter(mm)	Min.bend radius(mm)	Weight (g/m)
H70	700	2800	-40-140℃	Single	9.7	18	120	500
H70D	700	2800	-40-140℃		9.7	18	120	1000
H180	1800	4500	-40-140℃	Double	4.7	11.5	130	280
H250	2500	6250	-40-140℃	Double	4.7	13	175	410
H300	3000	7000	-40-140℃	Double	3.9	11.5	140	290

Hydraulic Couplers

Screw-to-connect couplings:

- Robust screw-to-connect couplings with high flow rate and ability to withstand harsh conditions;
- Compliance with ISO14540 ensures complete interchangeability with other brands following the same standard;
- Higher flow performance, high flow rate capacity, high durability,Built to withstand harsh conditions;



Model	Working Pressure (bar)	Burst Pressure (bar)	Flow (L/min)	Working Temperature	Material Coupling	Nominal Diameter (mm)	Connection
232-1/4	700	2220	16.1	-30-130 °C	Steel (Zinc)	5	1/4"NPT
232-3/8	700	1850	21.2	-30-130 °C	Steel (Zinc)	7	3/8"NPT

Quick couplings for ultra high-pressure:

- All High-Pressure Hydraulic couplings and nipples are designed with a non-drip interface to minimize fluid spillage and air inclusion during connection and disconnection;
- Dust caps are a standard feature to protect hydraulic systems from contaminants;
- Higher flow performance, high flow rate capacity, high durability,Built to withstand harsh conditions;



115



116/125

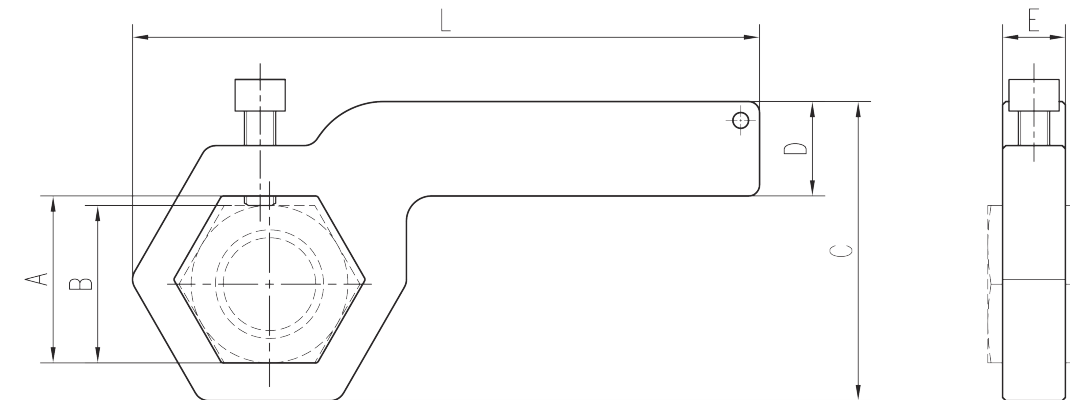


135

Model	Working Pressure (bar)	Burst Pressure (bar)	Flow (L/min)	Working Temperature	Material Coupling	Nominal Diameter (mm)	Connection
115	1000	2600	6	-30-130 °C	Steel (Zinc)	2.5	1/4NPT
116	1500	3000	6	-30-130 °C	Steel (Zinc)	2.5	G1/4"
125	2500	5000	5.8	-30-130 °C	Steel (Zinc)	2.5	G1/4"
135	3000	6000	4.6	-30-130 °C	Steel (Zinc)	2.5	M16*1.5

Backup Wrenches

- The BW Backup Wrench provides a simple and convenient solution for constraining the back nut in a wide range of bolting applications;
- This rugged steel wrench is available in a full range of metric and imperial sizes, all with a corrosion-resistant finish;
- The eye bolt is quick to adjust during setup and removal;



Model	Across Fla B (mm)	Across B (Inch)	Load Limits B (N.m)	Dimension (mm)	
				E	L
BW30	30	1-1/4"	3254	16	150
BW36	36	1-7/16"	3390	16	150
BW41	41	1-5/8"	4745	18	185
BW46	46	1-13/16"	4745	18	185
BW50	50	2"	5559	20	200
BW55	55	37331	5694	20	200
BW57	57	2-1/4"	5830	20	200
BW60	60	2-3/8"	5830	22	250
BW65	65	2-9/16"	6169	22	250
BW70	70	2-3/4"	7592	25	300
BW75	75	2-15/16"	8542	25	300
BW80	80	3-1/8"	9491	28	330
BW85	85	3-1/2"	9762	28	330
BW90	90	3-11/16"	9897	30	350
BW95	95	3-7/8"	12202	30	350
BW100	100	4"	32539	35	400
BW105	105	4-1/8"	32539	35	400
BW110	110	4-1/4"	32539	40	450
BW115	115	4-1/2"	36607	40	450
BW120	120	4-5/8"	36607	45	500
BW130	130	5"	36607	45	500

环境管理体系认证证书

兹证明

泰柯动力系统（江阴）有限公司

统一社会信用代码：91320281MA7GTG2RX8

注册地址：江阴市申港街道亚包大道 71 号东跨

经营地址：江阴市申港街道亚包大道 71 号东跨

其 环境管理体系 已通过申一检测认证有限公司的评审：符合

GB/T24001-2016 / ISO14001:2015 标准

认证范围： 电动扭力工具、气动扭力工具、液压扭力工具、液压拉伸工具、液压泵、
液压油缸的组装制造

证书编号：R306E17375

证书首次注册日期：2024 年 09 月 04 日

本次证书发证日期：2024 年 09 月 04 日

证书有效截止日期：2027 年 09 月 03 日

签发：[Signature]



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CANS C241-M



获证组织必须根据认证服务合同规定定期接受监督审核并经审核合格此证书方继续有效。
认证证书是否有效应登陆 www.shen1.net 或扫描以上二维码查询。本证书信息亦可在国家认证认可监督管理委员会官方网站 (www.cnca.gov.cn) 上查询。

申一检测认证有限公司

地址：中国·上海·松江区九亭镇顺庆路 650 号 4 楼-1 邮编：201612

质量管理体系认证证书

兹证明

泰柯动力系统（江阴）有限公司

统一社会信用代码：91320281MA7GTG2RX8

注册地址：江阴市申港街道亚包大道 71 号东跨

经营地址：江阴市申港街道亚包大道 71 号东跨

其 质量管理体系 已通过申一检测认证有限公司的评审：符合

GB/T19001-2016 / ISO9001:2015 标准

认证范围： 电动扭力工具、气动扭力工具、液压扭力工具、液压拉伸工具、液压泵、
液压油缸的组装制造

证书编号：R306Q17374

证书首次注册日期：2024 年 09 月 04 日

本次证书发证日期：2024 年 09 月 04 日

证书有效截止日期：2027 年 09 月 03 日

签发：[Signature]



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CANS C241-M



获证组织必须根据认证服务合同规定定期接受监督审核并经审核合格此证书方继续有效。
认证证书是否有效应登陆 www.shen1.net 或扫描以上二维码查询。本证书信息亦可在国家认证认可监督管理委员会官方网站 (www.cnca.gov.cn) 上查询。

申一检测认证有限公司

地址：中国·上海·松江区九亭镇顺庆路 650 号 4 楼-1 邮编：201612

Best in Class

Products

From Best in Class

Processes

ENGINEERING



MANUFACTURING



INSPECTION



TESTING



DISTRIBUTION

