



MADE IN CHINA



*Professional manufacturer of
hydraulic bolting tools*

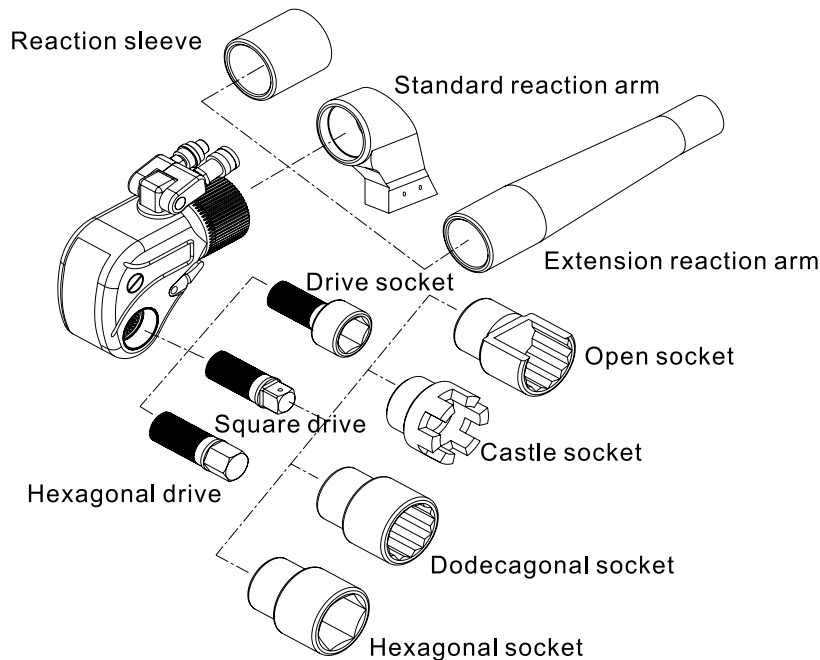


Pingyuan Jingke Hydraulic Co., Ltd

MXTD series - Square drive hydraulic torque wrench



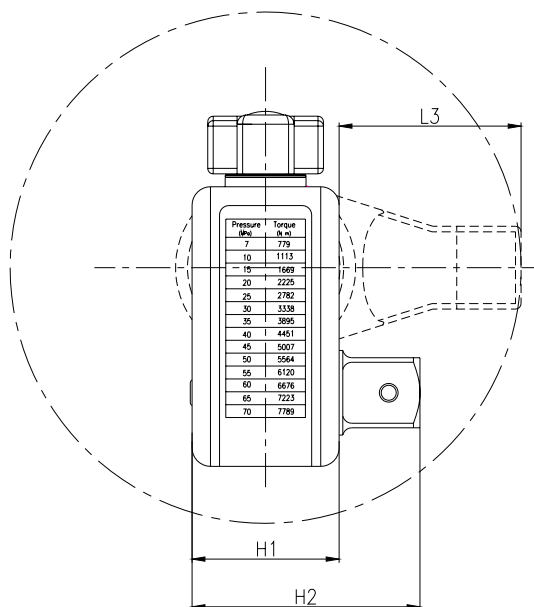
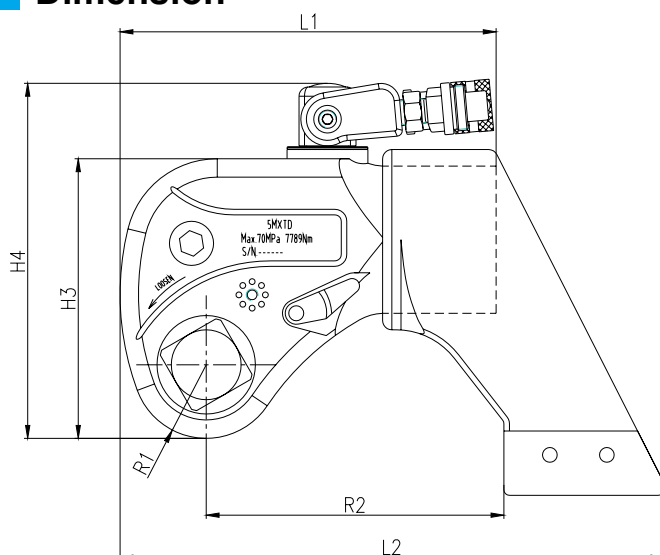
- 70MPa max working pressure
- Torque accuracy up to $\pm 3\%$
- 12 models from 185Nm-150000Nm
- 360X180 degree swivel joint, no space limitation
- 360 degree reaction arm
- Al-Ti alloy material, integrated design
- Square drive and reaction arm can be customized.



Optional CEJN self-locking quick coupler C701EL



Dimension



Technical parameters

Model	1MXTD	2MXTD	3MXTD	5MXTD	8MXTD	10MXTD	15MXTD	20MXTD	25MXTD	35MXTD	45MXTD	50MXTD	65MXTD	75MXTD	95MXTD
Torque (Nm)	185 1852	302 3017	436 4364	779 7789	1072 10715	1553 15528	2050 20501	2617 26171	3493 34928	4963 49627	5912 59123	7032 70315	8451 84512	10512 105120	14085 140848
Weight (Kg)	2.7	3.6	4.8	8.8	12	14.5	19	25	37.5	44	63	89	66	81	220
L1 (mm)	138	149	168	207	226	250	281	304	331	390	412	418	471	507	520
L2 (mm)	194	213	244	296	326	366	402	442	483	558	570	596	660	729	758
L3 (mm)	63	70	79	99	110	120	132	146	158	177	188	195	204	240	246
H1 (mm)	50	60	70	80	90	100	112	120	138	150	163	166	182	190	210
H2 (mm)	73	87	99	124	133	146	165	183	202	219	229	236	263	291	307
H3 (mm)	96	111	125	152	170	186	208	226	250	282	288	300	348	392	415
H4 (mm)	140	157	165	193	211	227	249	267	291	323	332	366	407	447	473
R1 (mm)	26	29	34	40	46	50	56	60	66	77	80	82	95	108	115
R2 (mm)	107	112	132	162	178	199	218	240	260	298	303	325	345	380	400
Square Drive	3/4"	1"	1"	1 1/2"	1 1/2"	1 1/2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3 1/2"	4"



KLCD series - Low profile hydraulic torque wrench

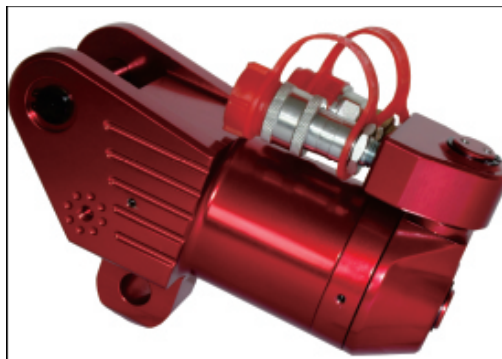
- 70MPa max working pressure
- Torque repeatability up to 3%
- 11 models with the ranges from 345-90000Nm.
- 360x180 degree swivel joint, no space limitation.
- Integral design, high strength and high toughness.
- Al-Ti alloy material
- Ratchet link and supporting point are coaxial, perfect structure, long service life.
- One power head can match different ratchet links.

360°x180° swivel joint allows free operation with no space limitation.

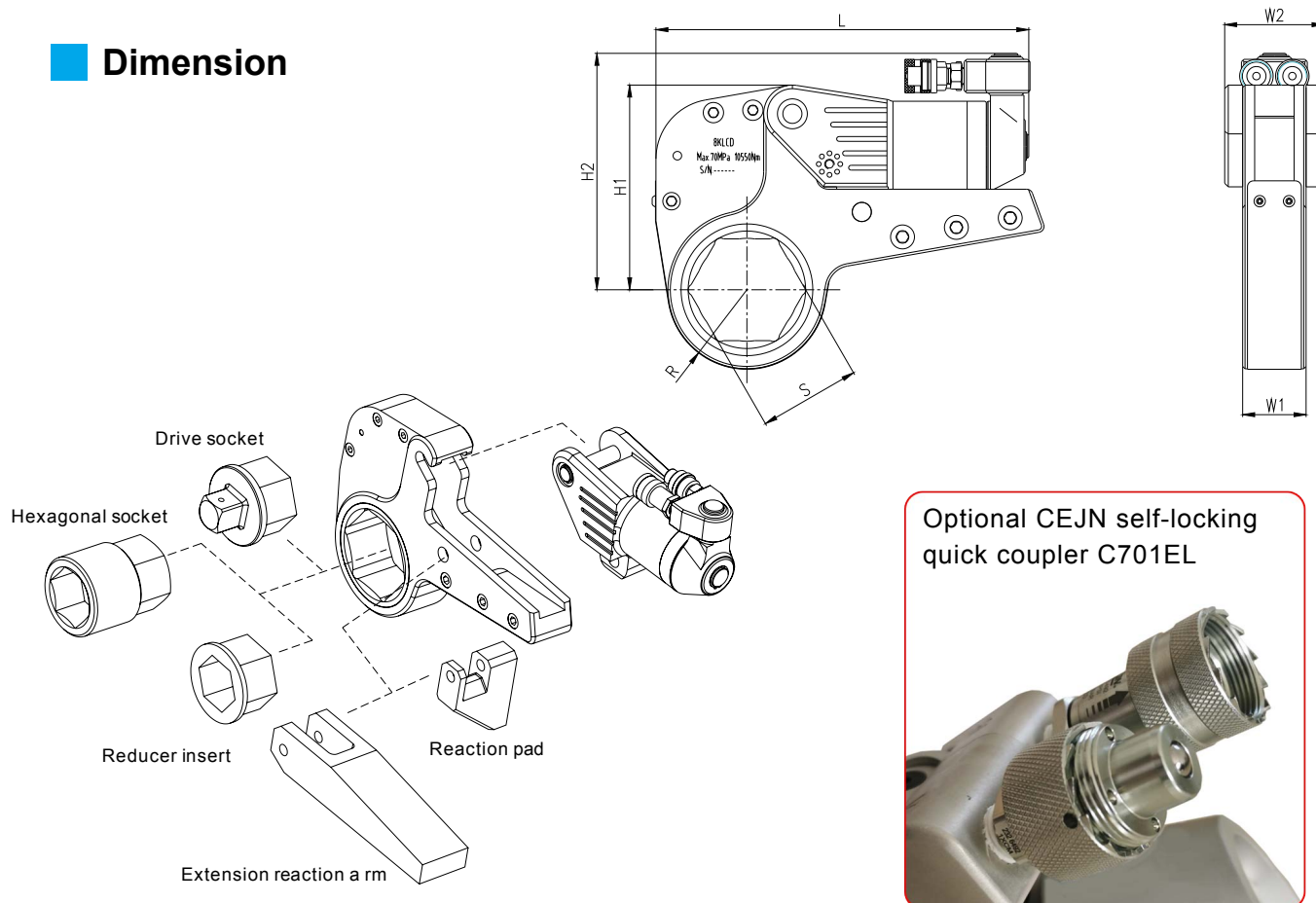
The design of ratchet pawl overcomes the possibility of ratchet reversing, which improves work efficiency and torque accuracy.

Integral lengthening design, longer arm and higher reliability.

Hollow design, the wrench works on nut directly, more accurate torque.

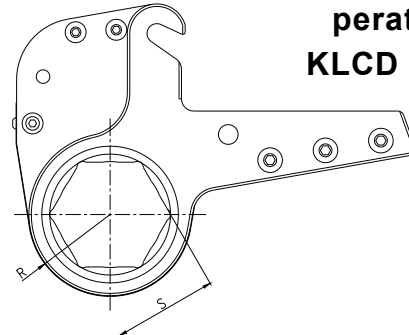


Dimension



Technical parameters

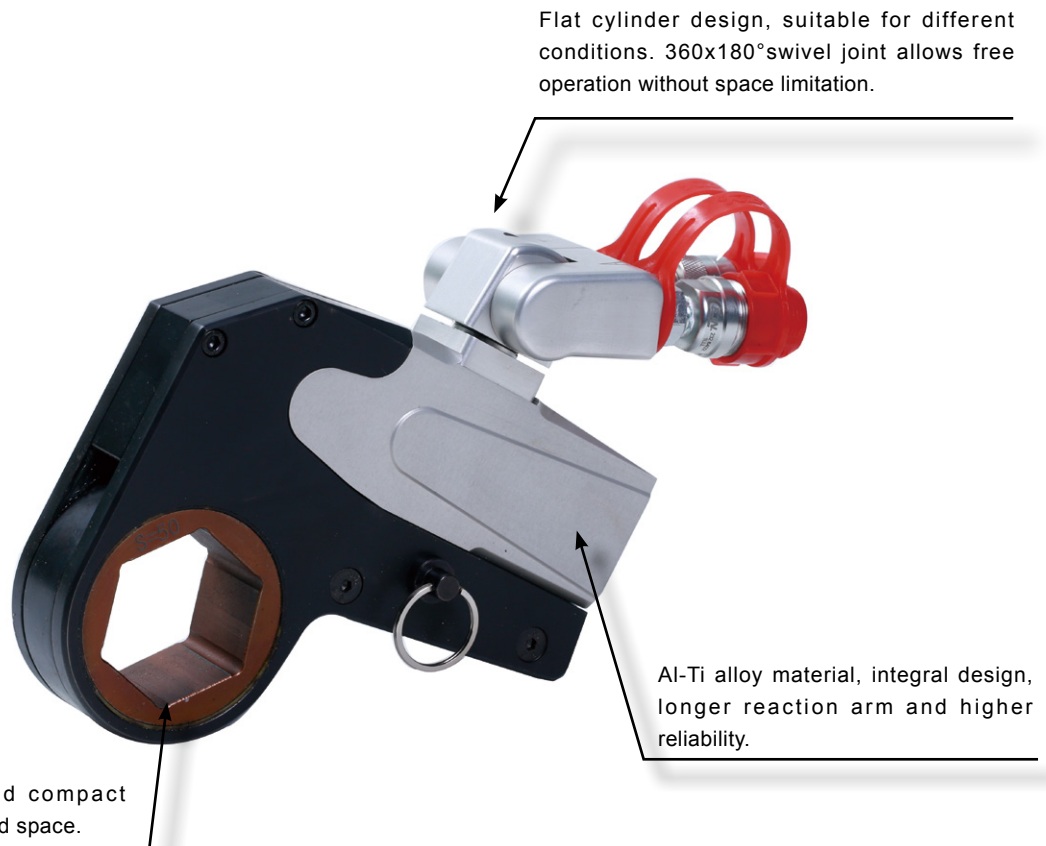
Model	3KLCD	4KLCD	8KLCD	14KLCD	18KLCD	20KLCD	30KLCD	40KLCD	45KLCD	65KLCD
Torque (Nm)	345	546	1055	1848	2481	2909	4231	5209	6285	9000
	3446	5458	10550	18484	24814	29089	42311	52088	62851	89996
A/F (mm)	36-60	46-80	70-105	80-115	85-120	90-130	95-145	120-145	130-155	135-180
Power head Weight (kg)	0.8	1.9	4.2	6.8	8.1	10.5	12.7	15.2	16.3	23
Cassette weight (kg)	1.7	3.6	7.6	12.2	19.3	22.3	32.3	47.5	58.7	75
L (mm)	218	266	324	382	404	427	479	479	486	514
H1 (mm)	118	139	171	205	229	240	268	285	311	336
H2 (mm)	156	167	198	231	255	265	289	302	352	375
W1 (mm)	32	42	53	64	68	70	85	98	105	117
W2 (mm)	50	66	83	99	105	110	132	148	160	177
R (mm)	31-46	42-62	58-78	67-87	73-93	77-102	83-128	101-130	-	-



operation radius of
KLCD series

Wrench model	Cassette model				Wrench model	Cassette model			
	Cassette model	Bolt size	AF (mm)	Radius (mm)		Cassette model	Bolt size	AF (mm)	Radius (mm)
3KLCD	3KLCD-36	M24	S36	31	18KLCD	18KLCD-85	M56	S85	73
	3KLCD-41	M27	S41	34		18KLCD-90	M60	S90	75
	3KLCD-46	M30	S46	37		18KLCD-95	M64	S95	77
	3KLCD-50	M33	S50	40		18KLCD-100	M68	S100	77
	3KLCD-55	M36	S55	43		18KLCD-105	M72	S105	83
	3KLCD-60	M39	S60	46		18KLCD-110	M76	S110	83
4KLCD	4KLCD-46	M30	S46	42		18KLCD-115	M80	S115	88
	4KLCD-50	M33	S50	44		18KLCD-120	M85	S120	93
	4KLCD-55	M36	S55	46	20KLCD	20KLCD-90	M60	S90	77
	4KLCD-60	M39	S60	50		20KLCD-95	M64	S95	80
	4KLCD-65	M42	S65	53		20KLCD-100	M68	S100	80
	4KLCD-70	M45	S70	56		20KLCD-105	M72	S105	85
	4KLCD-75	M48	S75	59		20KLCD-110	M76	S110	85
	4KLCD-80	M52	S80	62		20KLCD-115	M80	S115	90
8KLCD	8KLCD-70	M45	S70	58		20KLCD-120	M85	S120	95
	8KLCD-75	M48	S75	60		20KLCD-130	M90	S130	102
	8KLCD-80	M52	S80	63	30KLCD	30KLCD-95	M64	S95	83
	8KLCD-85	M56	S85	65		30KLCD-100	M68	S100	83
	8KLCD-90	M60	S90	68		30KLCD-105	M72	S105	89
	8KLCD-95	M64	S95	71		30KLCD-110	M76	S110	89
	8KLCD-100	M68	S100	75		30KLCD-115	M80	S115	94
	8KLCD-105	M72	S105	78		30KLCD-120	M85	S120	98
14KLCD	14KLCD-80	M52	S80	67		30KLCD-130	M90	S130	104
	14KLCD-85	M56	S85	69		30KLCD-145	M100	S145	114
	14KLCD-90	M60	S90	72		30KLCD-150	M105	S150	116
	14KLCD-95	M64	S95	76		30KLCD-155	M110	S155	116
	14KLCD-100	M68	S100	78		30KLCD-165	M115	S165	128
	14KLCD-105	M72	S105	81					
	14KLCD-110	M76	S110	85					
	14KLCD-115	M80	S115	87					

WHCD series - Low profile hydraulic torque wrench

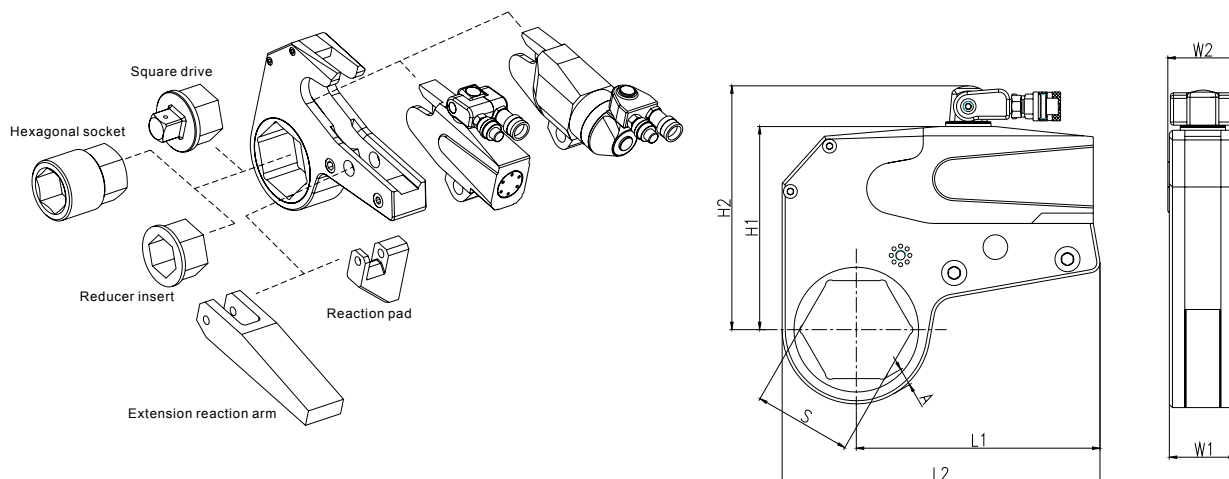


- 70MPa max working pressure
- Torque repeatability up to 3%
- 10 models with the ranges from 233-140000Nm.
- 360x180 degree swivel joints allow free operation without space limitation.
- Al-Ti alloy material, integral design, longer reaction arm and higher reliability.
- Light weight
- Ratchet link can be changed.

Optional CEJN self-locking quick coupler C701EL



Dimension



Technical parameters

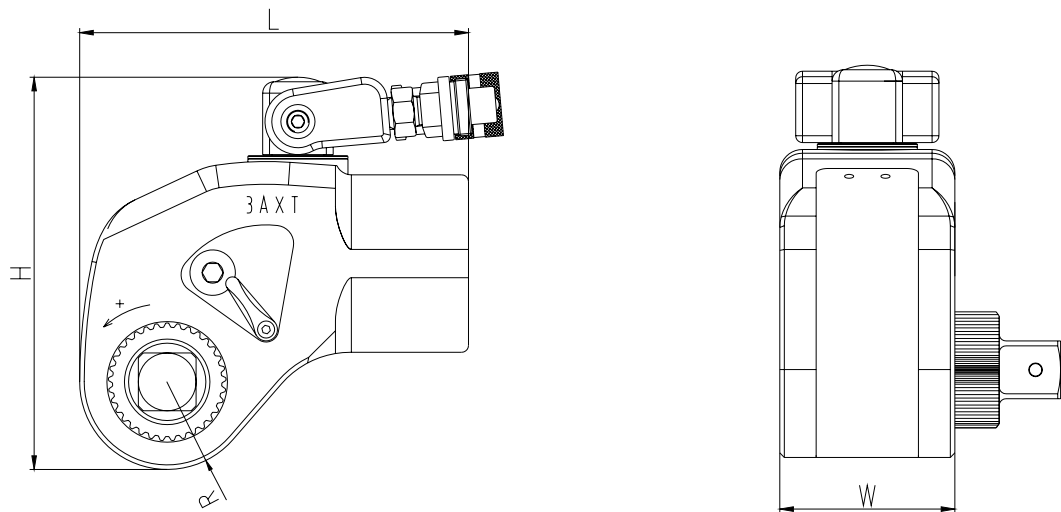
Model	1WHCD	3WHCD	4WHCD	6WHCD	8WHCD	15WHCD	25WHCD	35WHCD	50WHCD	95WHCD
Torque (Nm)	233 2326	345 3446	540 5399	769 7691	1212 12116	1992 19919	3363 33629	5385 53851	7522 75221	13946 139463
A/F (mm)	36-60	41-60	46-80	55-85	70-105	80-115	90-130	120-145	130-180	155-190
Weight (kg)	2.1	3.7	4.5	7.5	8.9	17.3	25.2	35.5	47.8	204
L1 (mm)	120.5	144	156	179	207	237	273	338	382	492
L2 (mm)	156	185	202	232	270	309	361	447	517	665
L3 (mm)	191	223	232	256	291	335	383	456	539	670
H1 (mm)	100	113	119	145	168	197	230	280	320	400
H2 (mm)	144.5	156	161	187	210	237	272	345	383	458
H3 (mm)	142	148	152	179	200	227	255	294	400	425
W1 (mm)	34	36	42	45	53	64	70	84	94	160
W2 (mm)	36	38	46	49	57	68	79	92	102	168
W3 (mm)	50	55	60	65	75	90	100	118	140	180
A (mm)	8.3	9.5	11.7	12.8	14.2	18.2	21.3	24.8	30.5	61.7

AXT series - Front square drive hydraulic torque wrench



- 70MPa max working pressure
- Torque repeatability up to $\pm 3\%$
- Front reaction arm, smaller longitudinal size, more suitable for narrow space.
- Reaction arm and square drive are coaxial, better adaptability.
- Wide ranges from 179-19000Nm.
- 360 degree swivel joint, free operation, no space limitation.
- Al-Ti alloy material, high strength
- Reaction arm can be customized.

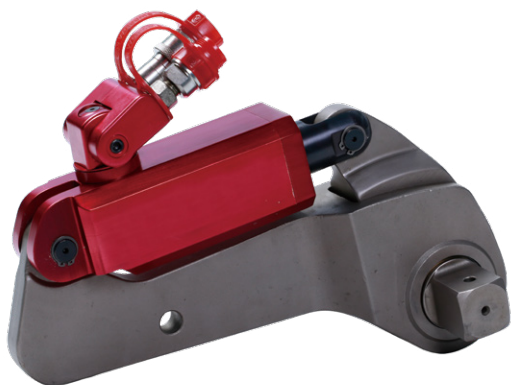
Dimension



Technical parameters

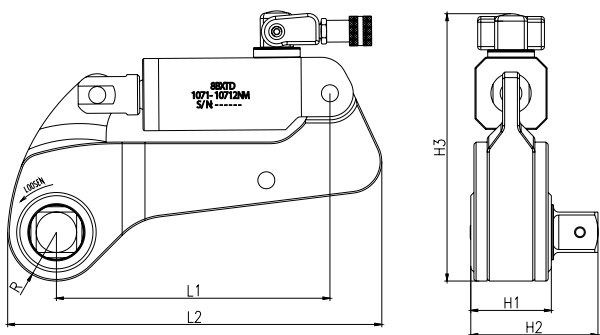
Model	1AXT	3AXT	5AXT	8AXT	10AXT	15AXT
Torque (Nm)	179 1788	406 4062	733 7325	1003 10033	1513 15133	1904 19041
Precision	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%
Weight (Kg)	2.4	5.1	8.4	10.3	14.6	17.8
R (mm)	29.5	38.5	47.5	54.5	62.5	64.5
L (mm)	133	171	210	238	266	296
H (mm)	135	172	205	232	253	255
W (mm)	57	77	88	100	111	120
Square Drive	3/4"	1"	1 1/2"	1 1/2"	1 1/2"	2"

BXTD series - Square drive hydraulic torque wrench



- Max working pressure 70MPa
- Small precise ratchet design, no trigger button, avoid getting stuck caused by bolt reversing.
- 360X180 degree swivel joint, free operation.
- Few transmission parts, simple structure, easy maintenance.
- Compact integrated reaction arm, little unbalance load, more durable.
- Al-Ti alloy cylinder, high strength
- Perfect combination of Al-Ti alloy and alloy steel.
- Torque repeatability up to 3%
- Square drive can be changed and customized.
- Especially suitable for bolt tightening of water turbine rotor etc.

Dimension



Technical parameters

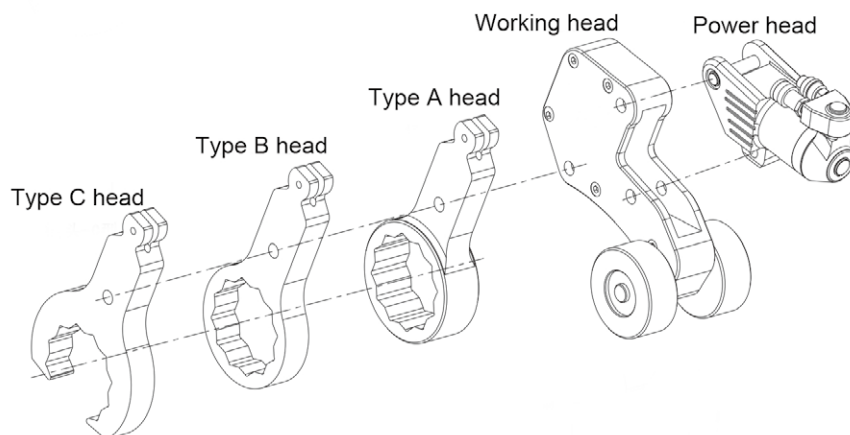
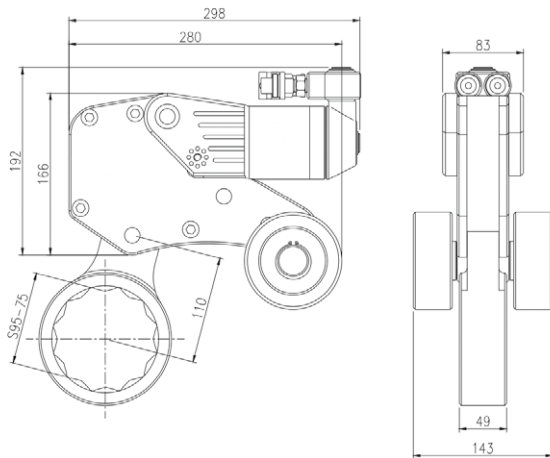
Model	3BXTD	8BXTD	10BXTD	15BXTD	20BXTD	25BXTD	45BXTD	60BXTD	85BXTD	120BXTD
Torque (Nm)	485 4847	1071 10712	1512 15121	2013 20130	2909 29089	3679 36795	6058 60582	8440 84403	12017 120176	15936 159355
Weight (Kg)	6.2	12.7	18.5	25	31.5	40.4	56	68	115	163
L1 (mm)	210	258	279	318	340	350	380	422	452	510
L2 (mm)	281	353	385	435	452	472	525	573	660	770
H1 (mm)	55	76	81	88	95	103	112	135	175	235
H2 (mm)	84	120	124	140.5	160	168	182	217	280	352
H3 (mm)	200	255	278	292	313	335	386	403	450	520
R (mm)	35	46	50	56	63	70	80	85	110	125
Square Drive	1"	1 1/2"	1 1/2"	2"	2 1/2"	2 1/2"	2 1/2"	3"	3 1/2"	4"

CLCD fork-wheel-type torque wrench



- It solves the problems of small distance between bolts and pipelines, and limited space in height.
- Applicable to match normal API flanges.
- Small head radius, suitable for small space
- Made of high strength alloy steel, more durable.
- Attention: Run the pump as return direction to take wrench down when every cycle is finished, then reposition.
- This model does not have retaining function.

Dimension



Technical parameters

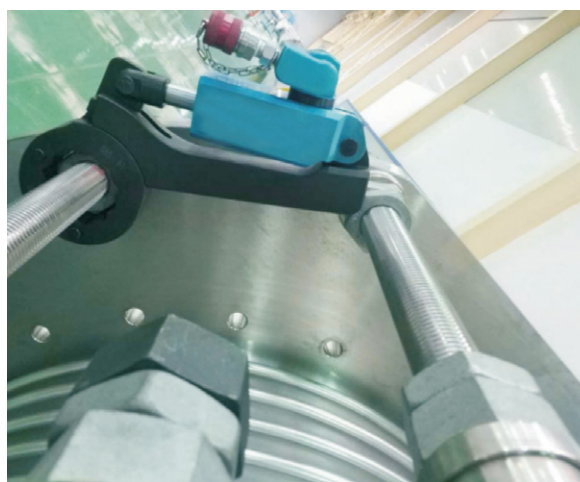
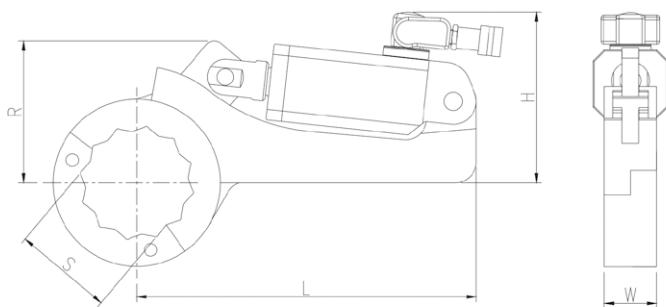
Model	Max working pressure	Max torque	Nut range
8CLCD	50MPa	11550Nm	75-95mm

JND split type hydraulic wrench



- Applicable to piercing nut working condition
- Especially used for steam turbine shaft tightening
- Small head radius, detachable head
- Pin and shaft combination, easy to detach or combine.
- Made of high strength alloy steel, very durable
- Attention: Run the pump as return direction to take wrench down when every cycle is finished, then reposition.
- This model does not have retaining function.

Dimension



Technical parameters

Model	3JND	8JND	14JND	20JND	30JND	35JND
Torque (Nm)	522 5215	1158 11583	1852 18522	2713 27135	4320 43200	5183 51835
Weight (Kg)	9	11	19	23	31	66
L (mm)	300	325	350	366	410	490
H (mm)	160	163	211	225	254	320
W (mm)	45	50	55	60	75	95
R (mm)	130	136	162	188	235	260
S (mm)	50-85	85-115	90-135	95-145	135-200	155-230



Backup wrench

Model	AF(mm)	Radius(mm)	Thickness(mm)	Length(mm)
FLS-30	30	25	24	75
FLS-36	36	27	24	80
FLS-41	41	29	24	80
FLS-46	46	34	30	90
FLS-50	50	35	30	95
FLS-55	55	38	35	95
FLS-60	60	42	35	105
FLS-65	65	47	40	105
FLS-70	70	50	40	105
FLS-75	75	53	45	110
FLS-80	80	55	45	110
FLS-85	85	60	45	110
FLS-90	90	65	50	125
FLS-95	95	67	50	125
FLS-100	100	71	50	130

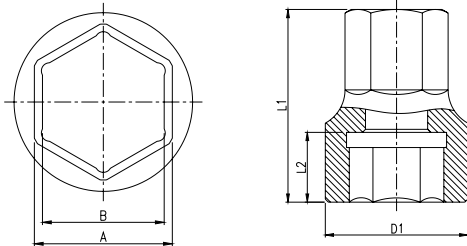
Digital impact socket

Display/Output torque value, convenient and high efficiency.
 Measure and display the peak torque value.
 Complete data collection, multiple output formats.
 Access to view by bluetooth of mobile phone or PC.
 Can replace torque calibration equipment to test hydraulic tools.
 Torque accuracy +/-1%



Model	Square drive	AF(mm)	Torque range(Nm)		Diameter(mm)	Height(mm)	Weight(kg)
19XSM-36	3/4"	36	202	2025	72	87	2
19XSM-41	3/4"	41	202	2025	72	87	1.8
19XSM-46	1"	46	202	2025	72	87	3.1
19XSM-50	1"	50	405	4050	86	87	2.7
19XSM-55	1"	55	405	4050	86	90	2.4
19XSM-60	1"	60	405	4050	86	90	2.2
19XSM-65	1 1/2"	65	1080	10800	115	120	4.8
19XSM-75	1 1/2"	75	1080	10800	115	120	4.5
19XSM-80	1 1/2"	80	1080	10800	115	120	4.2

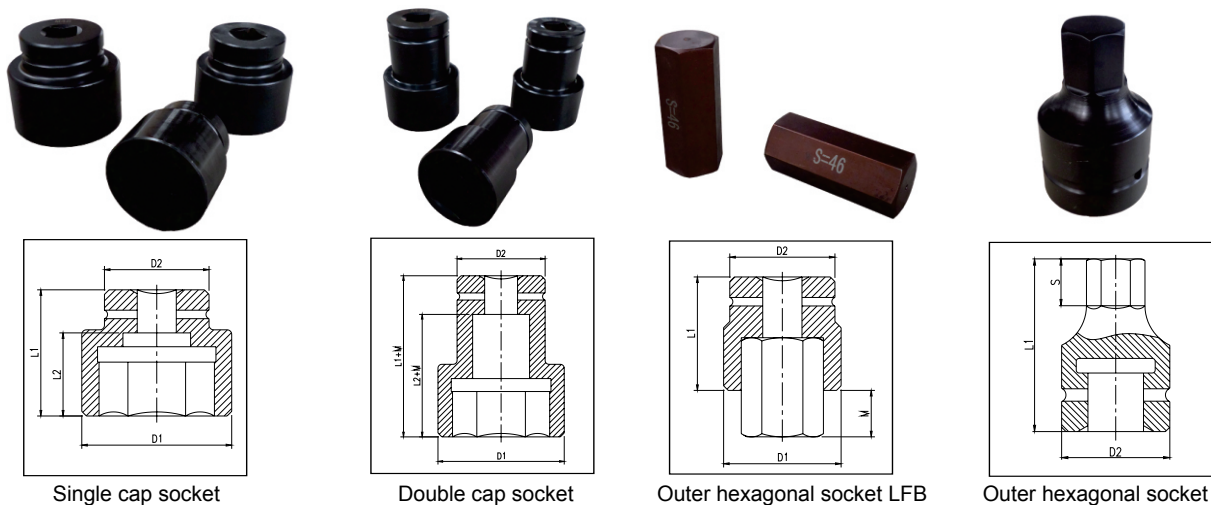
Reducers for low profile torque wrench



- Made of high strength Cr Mo alloy steel.
- Pass standard heat treatment process, making the socket safe, reliable and durable.
- KLCD series sockets can also be used for WHCD series.
- Non-standard sockets can be customized.

Wrench model	Working head type	A/F	Specifications of variable sockets							
			Model	A/B	Model	A/B	Model	A/B	Model	A/B
3KLCD	3KLCD-36	S=36	3K3630	36/30	3K3627	36/27	3K3624	36/24		
	3KLCD-41	S=41	3K4136	41/36	3K4134	41/34	3K4130	41/30	3K4127	41/27
	3KLCD-46	S=46	3K4641	46/41	3K4636	46/36	3K4634	46/34	3K4630	46/30
	3KLCD-50	S=50	3K5046	50/46	3K5041	50/41	3K5036	50/36	3K5034	50/34
	3KLCD-55	S=55	3K5550	55/50	3K5546	55/46	3K5541	55/41	3K5536	55/36
	3KLCD-60	S=60	3K6055	60/55	3K6050	60/50	3K6046	60/46	3K6041	60/41
4KLCD	4KLCD-46	S=46	4K4641	46/41	4K4636	46/36	4K4634	46/34		
	4KLCD-50	S=50	4K5041	50/41	4K5036	50/36	4K5034	50/34		
	4KLCD-55	S=55	4K5546	55/46	4K5541	55/41	4K5536	55/36	4K5534	55/34
	4KLCD-60	S=60	4K6050	60/50	4K6046	60/46	4K6041	60/41	4K6036	60/36
	4KLCD-65	S=65	4K6555	65/55	4K6550	65/50	4K6546	65/46	4K6541	65/41
	4KLCD-70	S=70	4K7060	70/60	4K7055	70/55	4K7050	70/50	4K7046	70/46
	4KLCD-75	S=75	4K7565	75/65	4K7560	75/60	4K7555	75/55	4K7550	75/50
	4KLCD-80	S=80	4K8070	80/70	4K8065	80/65	4K8060	80/60	4K8055	80/55
8KLCD	8KLCD-70	S=70	8K7060	70/60	8K7055	70/55	8K7050	70/50		
	8KLCD-75	S=75	8K7565	75/65	8K7560	75/60	8K7555	75/55	8K7550	75/50
	8KLCD-80	S=80	8K8070	80/70	8K8065	80/65	8K8060	80/60	8K8055	80/55
	8KLCD-85	S=85	8K8575	85/75	8K8570	85/70	8K8565	85/65	8K8560	85/60
	8KLCD-90	S=90	8K9080	90/80	8K9075	90/75	8K9070	90/70	8K9065	90/65
	8KLCD-95	S=95	8K9585	95/85	8K9580	95/80	8K9575	95/75	8K9570	95/70
	8KLCD-100	S=100	8K10090	100/90	8K10085	100/85	8K10080	100/80	8K10075	100/75
	8KLCD-105	S=105	8K10595	105/95	8K10590	105/90	8K10585	105/85	8K10580	105/80
14KLCD	14KLCD-80	S=80	14K8070	80/70	14K8065	80/65	14K8060	80/60		
	14KLCD-85	S=85	14K8575	85/75	14K8570	85/70	14K8565	85/65	14K8560	85/60
	14KLCD-90	S=90	14K9080	90/80	14K9075	90/75	14K9070	90/70	14K9065	90/65
	14KLCD-95	S=95	14K9585	95/85	14K9580	95/80	14K9575	95/75	14K9570	95/70
	14KLCD-100	S=100	14K10090	100/90	14K10085	100/85	14K10080	100/80	14K10075	100/75
	14KLCD-105	S=105	14K10595	105/95	14K10590	105/90	14K10585	105/85	14K10580	105/80
	14KLCD-110	S=110	14K110100	110/100	14K11095	110/95	14K11090	110/90	14K11085	110/85
	14KLCD-115	S=115	14K115105	115/105	14K115100	115/100	14K11595	115/95	14K11590	115/90
18KLCD	18KLCD-85	S=85	18K8575	85/75	18K8570	85/70	18K8565	85/65		
	18KLCD-90	S=90	18K9080	90/80	18K9075	90/75	18K9070	90/70	18K9065	90/65
	18KLCD-95	S=95	18K9585	95/85	18K9580	95/80	18K9575	95/75	18K9570	95/70
	18KLCD-100	S=100	18K10090	100/90	18K10085	100/85	18K10080	100/80	18K10075	100/75
	18KLCD-105	S=105	18K10595	105/95	18K10590	105/90	18K10585	105/85	18K10580	105/80
	18KLCD-110	S=110	18K110100	110/100	18K11095	110/95	18K11090	110/90	18K11085	110/85
	18KLCD-115	S=115	18K115105	115/105	18K115100	115/100	18K11595	115/95	18K11590	115/90
	18KLCD-120	S=120	18K120110	120/110	18K120105	120/105	18K120100	120/100	18K12095	120/95
20KLCD	20KLCD-90	S=90	20K9080	90/80	20K9075	90/75	20K9070	90/70		
	20KLCD-95	S=95	20K9585	95/85	20K9580	95/80	20K9575	95/75	20K9570	95/70
	20KLCD-100	S=100	20K10090	100/90	20K10085	100/85	20K10080	100/80	20K10075	100/75
	20KLCD-105	S=105	20K10595	105/95	20K10590	105/90	20K10585	105/85	20K10580	105/80
	20KLCD-110	S=110	20K110100	110/100	20K11095	110/95	20K11090	110/90	20K11085	110/85
	20KLCD-115	S=115	20K115105	115/105	20K115100	115/100	20K11595	115/95	20K11590	115/90
	20KLCD-120	S=120	20K120110	120/110	20K120105	120/105	20K120100	120/100	20K12095	120/95
	20KLCD-130	S=130	20K130120	130/120	20K130115	130/115	20K130110	130/110	20K130105	130/105
30KLCD	30KLCD-95	S=95	30K9585	95/85	30K9580	95/80	30K9575	95/75		
	30KLCD-100	S=100	30K10090	100/90	30K10085	100/85	30K10080	100/80	30K10075	100/75
	30KLCD-105	S=105	30K10595	105/95	30K10590	105/90	30K10585	105/85	30K10580	105/80
	30KLCD-110	S=110	30K110100	110/100	30K11095	110/95	30K11090	110/90	30K11085	110/85
	30KLCD-115	S=115	30K115105	115/105	30K115100	115/100	30K11595	115/95	30K11590	115/90
	30KLCD-120	S=120	30K120110	120/110	30K120105	120/105	30K120100	120/100	30K12095	120/95
	30KLCD-130	S=130	30K130120	130/120	30K130115	130/115	30K130110	130/110	30K130105	130/105
	30KLCD-145	S=145	30K145135	145/135	30K145130	145/130	30K145120	145/120	30K145115	145/115
	30KLCD-150	S=150	30K150135	150/135	30K150130	150/130	30K150120	150/120	30K150115	150/115
	30KLCD-155	S=155	30K155145	155/145	30K155135	155/135	30K155130	155/130	30K155120	155/120

Sockets for square drive torque wrench



- Made of high strength Cr Mo alloy steel.
 - Pass standard heat treatment process, making the socket safe, reliable and durable.
 - Non-standard sockets can be customized.
- Heavy duty socket standard DIN3121/3129.

Bolt specification		3/4" (19×19)				1" (25.4×25.4)				1-1/2" (38×38)				2" (51×51)				2-1/2" (64×64)			
Diameter	A/F	D1	D2	L1	L2	D1	D2	L1	L2	D1	D2	L1	L2	D1	D2	L1	L2	D1	D2	L1	L2
M16	24	42	42	50	27																
M20	30	48	44	54	31																
M22	34	52	44	54	31	52	52	58	30												
M24	36	54	44	57	34	55	55	61	33	74	74	76	34								
M27	41	60	44	60	37	63	55	64	36	74	74	79	37								
M30	46	66	44	68	45	70	58	68	40	74	74	82	40								
M33	50	71	44	70	47	75	64	71	43	81	81	85	43								
M36	55					81	66	76	48	87	87	90	48	100	100	97	48	115	115	118	54
M39	60					87	66	79	51	87	87	93	51	103	103	100	51	115	115	118	54
M42	65					92	68	82	54	97	87	96	54	105	105	104	54	120	120	118	54
M45	70					97	75	85	57	102	87	99	57	112	112	107	57	120	120	121	57
M48	75					102	75	91	63	112	87	105	63	119	119	113	63	128	128	127	63
M52	80					108	75	95	67	118	95	109	67	123	123	117	67	130	130	131	67
M56	85					116	78	99	71	123	95	114	72	127	127	122	72	132	132	136	72
M60	90									128	98	118	76	132	115	126	76	139	139	140	76
M64	95									133	98	124	82	138	115	132	82	145	145	145	82
M68	100									139	102	128	86	138	115	136	86	153	142	150	86
M72	105									145	102	132	90	148	115	140	90	160	142	154	90
M76	110									150	105	136	94	154	120	146	96	166	142	160	96
M80	115									155	110	150	105	159	120	150	100	173	142	164	100
M85	120													165	125	155	105	180	142	169	105
M90	130													177	125	160	110	190	160	174	110
M95	135													182	130	165	115	195	160	179	115
M100	145													194	135	175	125	210	160	189	125
M105	150																	215	170	200	130
M110	155																	223	170	210	135
M115	165																	230	170	220	140
M120	175																	240	170	235	155

The chart of max recommended torque for bolts

Strength grade		4.8		6.8		8.8		10.9		12.9	
Min breaking strength		400MPa		600MPa		800MPa		1000MPa		1200MPa	
Material		General structural steel		Mechanical construction steel		Chrome molybdenum alloy steel		Ni-Cr-Mo alloy steel		Ni-Cr-Mo alloy steel	
Bolt	A/F	Torque value		Torque value				Torque value		Torque value	
M	S	KGM	NM	KGM	NM	KGM	NM	KGM	NM	KGM	NM
16	24	9	87	13	131	18	174	25	245	30	294
18	27	13	128	20	192	26	256	37	360	44	432
20	30	17	170	26	256	35	341	49	479	59	575
22	34	24	232	36	348	47	465	69	653	80	784
24	36	30	294	45	442	60	589	84	828	101	994
27	41	44	432	66	647	88	863	124	1214	149	1457
30	46	60	585	89	877	119	1171	168	1646	201	1975
33	50	81	796	122	1195	162	1593	228	2240	274	2688
36	55	104	1023	157	1535	209	2046	294	2878	352	3453
39	60	135	1324	203	1986	270	2649	380	3725	456	4469
42	65	167	1638	251	2457	334	3277	470	4608	564	5529
45	70	209	2045	313	3068	417	4090	587	5752	704	6903
48	75	251	2461	376	3691	502	4921	706	6921	847	8305
52	80	325	3181	487	4771	649	6362	913	8946	1095	10736
56	85	404	3956	605	5934	807	7912	1135	11127	1362	13352
60	90	504	4932	755	7398	1006	9864	1415	13871	1698	16645
64	95	608	5960	912	8940	1216	11920	1710	16762	2052	20115
68	100	738	7230	1107	10845	1475	14460	2075	20335	2450	24401
72	105	885	8669	1327	13003	1769	17337	2488	24381	2985	29257
76	110	1050	10287	1574	15430	2099	20573	2952	28931		34717
80	115	1234	12094	1851	18141	2468	24188	3471	34014		40815
85	120	1493	14636	2240	21953	2987	29271		41163		49395
90	130	1787	17510	2680	26266	3573	35021		49248		59098
100	145	2484	24341	3726	36512		48683		68460		82152
110	155	3342	32751		49126		65501		92111		110533
120	175	4378	42902		64354		85805		120663		144795
125	180		48683		73024		97366		136920		164304

Attention:

The data in the chart is measured under 60% yield limit of the bolt, the recommended tightening torque is 70-80% of above data.

For example, for M52 grade 8.8 bolt, the tightening torque is $6362 \times (70-80)\% = 4453-5090\text{Nm}$.

The loosening torque should be 1.5-2.5 times of tightening torque.

MSD series Multi-stage hydraulic bolt tensioner



•This series tensioners are suitable for many brands of wind turbines, such as Vestas, Gamesa, Gold Wind, Shanghai Electric, Dongfang Electric and so on. For different kinds of wind turbines and bolts in different positions, Torcstark has the suitable model to match.

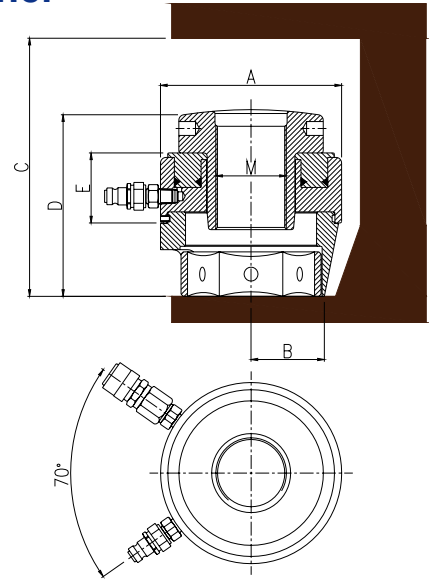
•Maximum working pressure 150Mpa

Specially for wind power industry

Model	Bolt size M	A/F S(mm)	Tensile Force (KN)	Cylinder area mm ²	Stroke mm	Outside diameter mm	Collapsed height mm	Max pressure MPa
MSD30.2.74	30X3.5	46	520	3855	8	74	218	135
MSD36.2.87	36X4	55	724	4827	10	87	263	150
MSD36.2.75	36X4	55	452	3016	8	75	201	150
MSD36.3.75	36X4	55	678	4524	8	75	255	150
MSD36C.2.96	36X4	55	670	4963	10	96	213	135
MSD36JG.2.82	36X4	55	667	4943	10	82	405	135
MSD39.2.94	39X4	60	870	5802	10	94	257	150
MSD42.2.108	42X4.5	65	1058	7057	10	108	292	150
MSD42.3.100	42X4.5	65	1190	8817	10	100	338	135
MSD48.2.122	48X5	75	1478	9858	12	122	324	150
NSD48.2.131	48X5	75	1539	10261	12	131	338	150
MSD56.2.138	56X5.5	85	1734	12847	12	138	372	135
MSD56L.2.141	56X5.5	85	1547	11459	10	141	285	135
MSD64.2.150	64X6	95	2011	14901	15	150	421	135
MSD64L.2.151	64X6	95	1839	12265	10	151	321	150



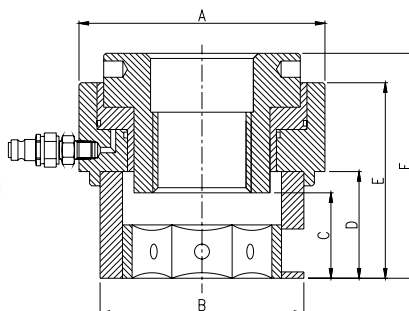
HLD series Single stage hydraulic bolt tensioner



- Maximum working pressure 150Mpa
- Compact design and easy maintenance
- Small size and light weight
- Easy to replace the rod
- Commonly used in petrochemical industry

Model	Bolt diameter		Max load	Oil pressure area	Weight	A	B	C	D	E	F
	Inch	mm									
HLD1		16	226	1506	3.5	73	24	110	74	45	49
	3/4	18	226	1506	3.5	73	24	110	74	45	49
		20	226	1506	3.5	73.5	27	110	74	45	49.5
	7/8	22	226	1506	3	73.5	27	115	74	45	53
	1	24	226	1506	3	73.5	30	125	78	45	58.5
	1 1/8	27	226	1506	3	73.5	32	130	78	45	63.5
HLD2		30	455	3031	5	102	30	150	90	54	69
	1 1/4	33	455	3031	5	102	34	150	90	54	72
	1 3/8	36	455	3031	5	102	36	160	95	54	78
	1 1/2	39	455	3031	5	102	38	170	100	54	80
HLD3	1 1/2	39	803	5357	9	133	42	175	95	56	83.5
	1 5/8	42	803	5357	9	133	42	185	100	56	92.5
	1 3/4	45	803	5357	9	133	44	195	103	56	98
	1 7/8	48	803	5357	9	133	46	205	107	56	101
	2	52	803	5357	9	133	48	210	112	56	106
HLD4	1 7/8	48	1288	8591	15	163	50	205	105	58	108
	2	52	1288	8591	15	163	52	215	108	58	108
	2 1/4	56	1288	8591	15	163	54	235	117	58	118.5
		60	1288	8591	15	163	54	238	120	58	127
	2 1/2	64	1288	8591	15	163	58	254	129	58	130.5
HLD5	2 1/2	64	1978	13188	25	193	64	254	125	60	130.5
		68	1978	13188	25	193	72	258	130	60	138
	2 3/4	72	1978	13188	25	193	72	258	130	60	143
	3	76	1978	13188	25	193	74	258	141	60	153
HLD6	3	76	2717	18114	44	233	76	260	146	64	153
		80	2717	18114	44	233	76	264	146	64	155.5
	3 1/4	85	2717	18114	44	233	78	272	148	64	165.5
	3 1/2	90	2717	18114	44	233	78	280	154	64	174.5
	3 3/4	95	2717	18114	40.5	233	99	300	168	64	189.5
	4	100	2717	18114	40.5	233	105	305	172	64	200

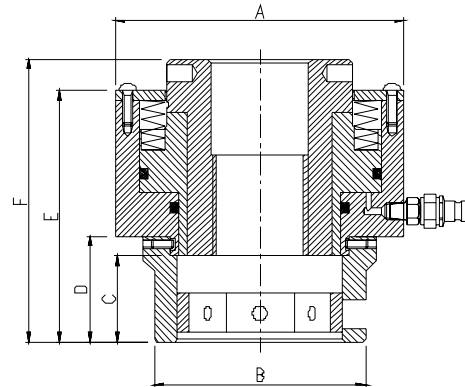
DLD series Simple type hydraulic bolt tensioner



- Maximum working pressure 150Mpa
- Mechanical return
- Replaceable tensioning rod
- Red overstroke warning line
- Polishing surface treatment

Model	Bolt size mm	Max load KN	Dimension (mm)						Stroke mm	Weight Kg
			A	B	C	D	E	F		
DLD0	M 20	338	85	55	23	25	74	86	8	3.5
	M 22			59	25	27	76	88		
	M 24			66	27	29	78	90		
DLD1	M 24	486	109	66	27	29	90	105	8	5.5
	M 27			72	30	32	93	108		
	M 30			78	33	35	96	111		
	M 33			85	36	38	99	114		
	M 36			90	39	41	102	117		
DLD2	M 33	814	132	85	36	44	111	127	8	8
	M 36			94	39	47	116	130		
	M 39			98	42	50	119	133		
	M 42			105	45	53	122	136		
DLD3	M 39	989	150	98	41	51	122	135	10	12
	M 42			105	44	54	125	138		
	M 45			110	47	57	128	141		
	M 48			125	50	60	131	144		
DLD4	M 52	1413	174	132	53	56	132	145	10	17
	M 56			135	59	60	136	149		
DLD5	M 56	1649	198	135	59	60	138	154	12	21
	M 60			144	63	65	143	159		
	M 64			150	67	69	147	163		
	M 68			158	71	74	152	168		
DLD6	M 72	2131	222	165	75	77	167	185	12	26
	M 76			170	79	81	175	193		
DLD7	M 76	2544	252	170	79	81	167	197	12	32
	M 80			175	83	85	172	201		
	M 85			185	88	90	176	206		
	M 90			205	93	95	181	211		
DLD8	M 95	3101	282	215	98	100	189	224	12	38
	M 100			235	103	105	194	229		
DLD9	M 105	3793	318	240	108	110	203	238	12	52
	M 110			250	113	115	208	243		
	M 115			260	118	120	213	248		
DLD10	M 115	4936	360	260	120	120	261	297	15	87
	M 120			270	125	125	266	302		
	M 125			285	140	130	271	307		

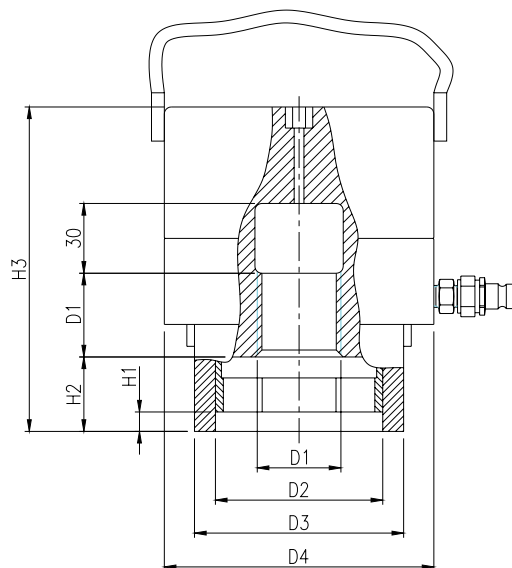
TSD series-Single stage hydraulic bolt tensioner



- Maximum working pressure 150Mpa
- Automatic return mechanism design
- Red overstroke warning line to ensure operator safety.
- One tensioner can be used for different size bolts, but the rod and bushing must be changed.

Model	Bolt size mm	Max load KN	Dimension (mm)						Stroke mm	Weight Kg
			A	B	C	D	E	F		
TSD0	M 20	307	109	55	23	25	111	128	8	5
	M 22			60	25	27	113	130		
	M 24			66	27	29	115	132		
TSD1	M 24	486	109	74	27	29	120	138	8	7
	M 27			77	30	32	123	141		
	M 30			80	33	35	126	144		
	M 33			85	36	38	129	147		
	M 36			90	39	41	132	150		
TSD2	M 33	814	132	90	36	44	135	150	8	10
	M 36			96	39	47	138	153		
	M 39			98	42	50	141	156		
	M 42			105	45	53	144	159		
TSD3	M 39	989	150	110	42	42	136	150	10	15
	M 42			113	45	45	140	155		
	M 45			114	50	50	144	161		
	M 48			118	52	52	146	163		
TSD4	M 52	1413	174	132	55	56	154	174	10	20
	M 56			135	59	60	158	178		
TSD5	M 56	1649	198	135	59	60	161	179	12	25
	M 60			143	64	64	165	183		
	M 64			150	68	68	169	187		
	M 68			158	72	72	173	191		
TSD6	M 72	2131	222	165	76	76	184	207	12	35
	M 76			170	80	80	188	211		
TSD7	M 76	2544	252	170	80	80	194	221	12	50
	M 80			175	85	85	197	224		
	M 85			190	90	88	199	226		
	M 90			205	95	95	209	236		
TSD8	M 95	3101	282	215	100	100	214	243	12	65
	M 100			235	105	105	219	248		
TSD9	M 105	3793	318	240	110	110	224	254	12	85
	M 110			248	115	118	234	264		
	M 115			260	120	120	234	264		
TSD10	M 115	4936	360	260	120	120	261	297	12	110
	M 120			270	125	125	266	302		
	M 125			286	140	130	271	307		

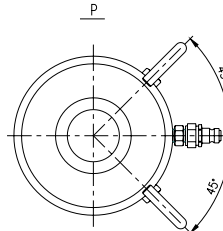
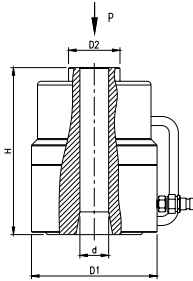
ESD series-Single stage hydraulic bolt tensioner



- Maximum working pressure 150Mpa.
- Mainly used for 10.9 grade high strength bolts.
- Automatic return mechanism design, labor intensity is greatly reduced.
- Red overstroke warning line to ensure operator's safety.

Model	Thread D1	A/F	Tensile Force	D2	D3	D4	H1	H2	H3
	mm	S	KN	mm	mm	mm	mm	mm	mm
ESD 20	M 20×2.5	30	200	42	52	65	6	19	94
ESD 24	M 24×3	36	290	49	60	78	8	22	102
ESD 27	M 27×3	41	380	55	67	86	10	25	108
ESD 30	M 30×3.5	46	460	61	74	97	12	27	106
ESD 33	M 33×3.5	50	570	66	81	107	14	29	114
ESD 36	M 36×4	55	670	71	90	117	16	32	118
ESD 39	M 39×4	60	800	77	96	127	18	34	125
ESD 42	M 42×4.5	65	920	83	102	137	20	37	134
ESD 45	M 45×4.5	70	1080	89	110	148	22	39	135
ESD 48	M 48×5	75	1220	94	116	158	24	42	140
ESD 52	M 52×5	80	1450	102	128	169	28	46	151
ESD 56	M 56×5.5	85	1680	106	135	179	31	49	158
ESD 60	M 60×5.5	90	2010	114	142	199	34	52	167
ESD 64	M 64×6	95	2210	120	151	211	37	55	172
ESD 68	M 68×6	100	2600	124	155	228	40	58	180
ESD 72	M 72×6	105	2880	130	168	238	44	62	186
ESD 76	M 76×6	110	3320	139	180	259	48	66	197
ESD 80	M 80×6	115	3610	142	188	267	50	68	202
ESD 90	M 90×6	130	4650	160	210	300	58	77	220
ESD 100	M 100×6	145	5830	178	237	340	66	85	240

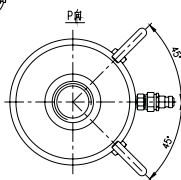
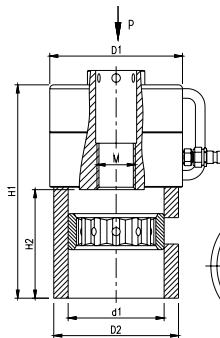
ZLD series-hydraulic bolt tensioner specially for bridge



- Maximum working pressure 150Mpa
- Automatic return mechanism design.
- Red overstroke warning line to ensure operator safety.
- Polishing surface treatment
- High pressure, light weight

Model	Tensile Force KN	Bolt size	Dimension (mm)				Stroke mm	Pressure MPa	Weight Kg
			D1	D2	d	H			
ZLD30	422	M30	94	47	32	210	40	150	8.5
ZLD33	500	M33	101	51	35	210	40	150	10.1
ZLD36	594	M36	109	56	38	210	40	150	12.7
ZLD39	727	M39	121	61	42	210	40	150	14.4
ZLD42	866	M42	132	66	44	210	40	150	16.4
ZLD45	922	M45	138	71	47	210	40	150	18
ZLD48	1027	M48	147	76	50	210	40	150	21
ZLD52	1354	M52	166	81	54	210	40	150	25
ZLD56	1413	M56	171	86	58	277	40	150	32
ZLD60	1688	M60	185	91	52	277	40	150	39
ZLD64	1830	M64	193	96	66	277	40	150	48

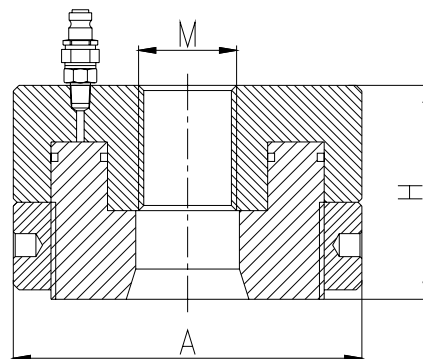
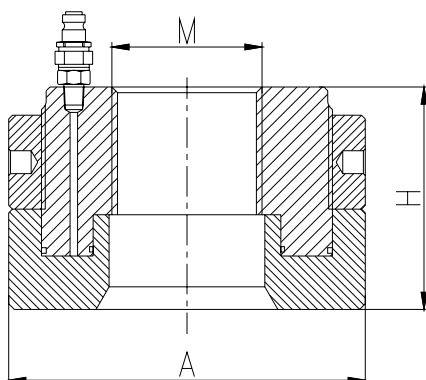
SJD series-hydraulic bolt tensioner for bridge lock clamping



- Maximum working pressure 150Mpa
- Automatic return mechanism design.
- Red overstroke warning line to ensure operator safety.
- Polishing surface treatment
- High pressure, light weight
- One tensioner can be used for different size bolts.

Model	Tensile Force KN	Bolt size	Dimension (mm)				Stroke mm	Pressure MPa	Weight Kg
			D1	D2	d	H			
SLD30	422	M30	94	86	270	120	20	150	8.2
SLD33	500	M33	101	92	273	122	20	150	12
SLD36	594	M36	109	100	276	127	20	150	15
SLD39	727	M39	121	108	279	130	20	150	22
SLD42	866	M42	132	117	283	133	20	150	24
SLD45	922	M45	138	122	285	139	20	150	27
SLD48	1027	M48	147	136	292	145	20	150	31
SLD52	1354	M52	166	156	303	153	20	150	38
SLD56	1413	M56	171	160	322	155	20	150	47
SLD60	1688	M60	185	172	354	155	20	150	51
SLD64	1830	M64	193	180	368	155	20	150	62

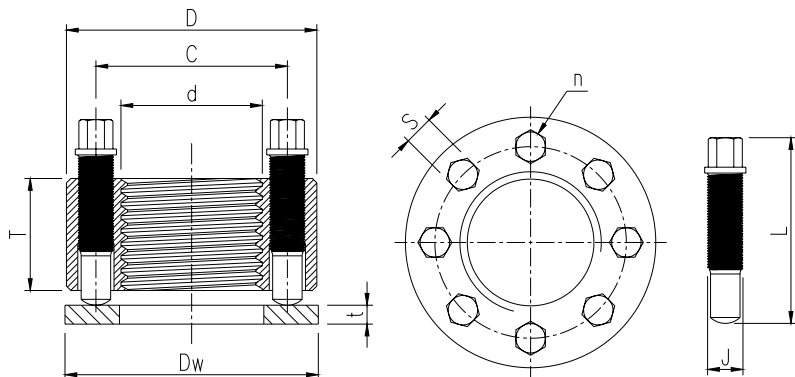
DN/HN series-Hydraulic Nut



- Maximum working pressure 150Mpa.
- The preload can be accurately set, the precision is up to $\pm 3\%$.
- Adopt no-torque design to avoid the influence of friction, bolt distortion, bolt pre-tightening force and other factors, so the bolt is to be tightened by pure tension force.
- Particularly suitable for heavy-duty vibration mechanical fastening.
- With stroke indicator, it is allowed to observe, measure and control the tensioner during operation.

Model		Bolt size	Outside diameter	Height	Action area	Max force	Stroke	Weight
Top ring hydraulic nut	Bottom ring hydraulic nut	M	A(mm)	H(mm)	cm ²	KN	mm	Kg
DN30	HN30	30	75	61	17.3	259	6	0.9
DN33	HN33	33	83	64	22.5	338	6	1.1
DN36	HN36	36	88	67	24.5	368	6	1.3
DN39	HN39	39	94	70	26.5	397	6	1.5
DN42	HN42	42	100	73	28.5	427	6	1.9
DN45	HN45	45	106	77	32.4	486	6	2.4
DN48	HN48	48	118	80	40	600	6	2.8
DN52	HN52	52	123	84	42.4	636	8	3.6
DN56	HN56	56	135	88	53.6	804	8	4.9
DN60	HN60	60	147	93	65.9	989	8	5.6
DN64	HN64	64	153	99	69.1	1036	8	6.7
DN68	HN68	68	159	105	72.4	1086	8	8.8
DN72	HN72	72	170	109	86.5	1298	10	9.7
DN76	HN76	76	176	117	90.1	1351	10	11.7
DN80	HN80	80	194	124	106	1590	10	14.9
DN85	HN85	85	200	130	113.9	1708	10	16.4
DN90	HN90	90	212	140	131.7	1976	10	19.6
DN95	HN95	95	223	148	150.7	2261	10	23.4
DN100	HN100	100	236	154	163.3	2450	15	28.5

CY series-Super Nut



- Operating temperature -60 ~ 200 degree
- Bolt stress under standard load 410-890MPa
- CY series super nuts are suitable for high strength machine tightening and all working conditions of big size hexagonal nuts.
- Application: low temperature bolt, compressor, pump, high pressure flange, reduction gearbox, gearbox, split gear, crushing machine, military machine, etc.

Model	Bolt size	Nut			Push bolt				Gasket		Standard product		Weight Kg
		Outside diameter D(mm)	Thickness T(mm)	Center distance C(mm)	Length L(mm)	Number n	Diameter J(mm)	A/F S(mm)	Outside diameter Dw(mm)	Thickness t(mm)	Tightening force KN	Torque Nm	
CY-M20	M20	37	17	29	30	8	M6X0.75	5	38	3.3	144	15	0.14
CY-M24	M24	47	24	35	40	6	M8X1	6	48	4.8	216	36	0.3
CY-M27	M27	50	24	39	40	8	M8X1	6	51	4.8	288	36	0.32
CY-M30	M30	53	24	41	40	8	M8X1	6	54	4.8	288	36	0.32
CY-M33	M33	62	32	48	52	6	M10X1.25	8	63	4.8	344	42	0.54
CY-M36	M36	66	32	51	52	8	M10X1.25	8	67	4.8	459	42	0.68
CY-M39	M39	71	32	54	52	10	M10X1.25	8	72	4.8	574	42	0.77
CY-M42	M42	75	32	56	52	12	M10X1.25	8	77	4.8	688	42	0.86
CY-M45	M45	81	38	62	62	8	M12X1.25	10	83	6.4	700	132	1.22
CY-M48	M48	85	38	65	62	10	M12X1.25	10	87	6.4	874	132	1.32
CY-M52	M52	94	38	70	62	12	M12X1.25	10	96	6.4	1049	132	1.63
CY-M56	M56	97	38	76	62	12	M12X1.25	10	99	6.4	1049	132	1.68
CY-M60	M60	107	58	83	91	8	M16X1.5	14	109	6.4	1228	315	3.2
CY-M64	M64	113	58	87	91	10	M16X1.5	14	115	8	1589	315	3.5
CY-M72	M72	119	58	94	91	12	M16X1.5	14	121	8	1906	315	3.6
CY-M80	M80	132	61	103	91	16	M16X1.5	14	134	8	2542	315	4.5
CY-M90	M90	145	61	113	91	16	M16X1.5	14	147	8	2542	315	5.4
CY-M100	M100	157	61	123	91	16	M16X1.5	14	159	8	2542	315	6.4
CY-M110	M110	177	61	133	91	20	M16X1.5	14	179	8	3177	315	8.2
CY-M120	M120	189	81	149	113	18	M20X1.5	17	191	10	4739	647	11.8
CY-M140	M140	215	94	169	126	22	M20X1.5	17	217	10	5792	647	17.2
CY-M160	M160	226	107	189	139	24	M20X1.5	17	228	10	6318	647	19.5



The chart of recommended bolt tightening force
The datas are mainly suitable for bolt tensioner and hydraulic nut.

Strength grade		4.8	6.8	8.8	10.9	12.9
Min breaking strength		400MPa	600MPa	800MPa	1000MPa	1200MPa
Material		General structural steel	Mechanical construction steel	Chrome molybdenum alloy steel	Ni-Cr-Mo alloy steel	Ni-Cr-Mo alloy steel
Bolt M	A/F S	Tightening Force (KN)				
16	24	30	45	60	85	102
18	27	37	55	74	104	125
20	30	47	71	94	132	159
22	34	58	87	117	164	197
24	36	68	102	135	190	228
27	41	88	132	176	248	298
30	46	108	161	215	303	363
33	50	133	200	266	375	449
36	55	157	235	314	441	529
39	60	187	281	375	527	632
42	65	215	323	430	605	726
45	70	251	376	502	705	846
48	75	283	424	566	796	955
52	80	338	506	675	949	1139
56	85	390	585	780	1096	1315
60	90	454	680	907	1275	1531
64	95	514	771	1028	1445	1734
68	100	587	880	1173	1650	1980
72	105	664	996	1329	1868	2242
76	110	747	1120	1494	2100	2520
80	115	834	1251	1668	2346	2815
85	120	950	1425	1900	2672	3206
90	130	1073	1610	2147	3019	3623
100	145	1343	2014	2686	3777	4533
110	155	1643	2464	3285	4620	5544
120	175	1973	2959	3945	5548	6657
125	180	2149	3223	4298	6043	7252

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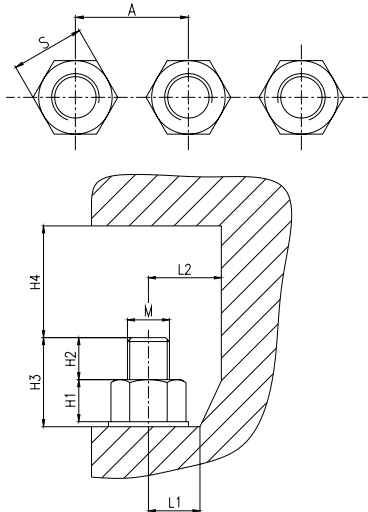
The data in the chart is measured under 60% yield limit of the bolt, the recommended tightening torque is 70-80% of above data.

For example, for M42 grade 10.8 bolt, the tightening torque is $605 \times (70-80)\% = 423.5-484\text{KN}$.

Space considerations

Use hydraulic wrench.

- You should know the working conditions of hydraulic wrench.
- Hexagon nut (octagonal nut)
- Inner hex bolts
- Castle nut

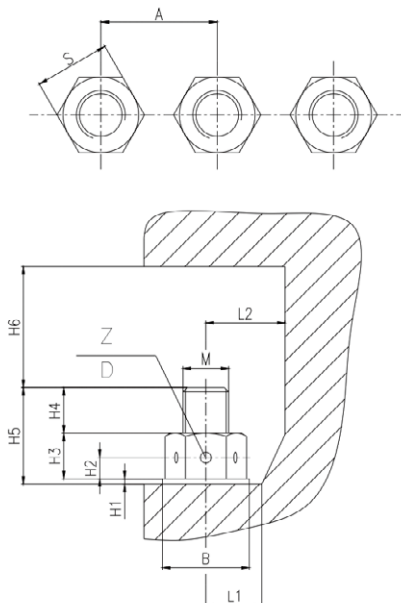


Hydraulic wrench working condition questionnaire
- Please fill in the detail

Bolt size	M	mm	
A/F	S	mm	
Distance between nuts	A	mm	
Nut thickness	H1	mm	
Length of screw over nut	H2	mm	
Total length of screw	H3	mm	
Distance of screw from top barrier	H4	mm	
Distance of nut center from corner	L1	mm	
Distance of nut center from side wall	L2	mm	
Pretightening torque	T	Nm	

Use hydraulic tensioner.

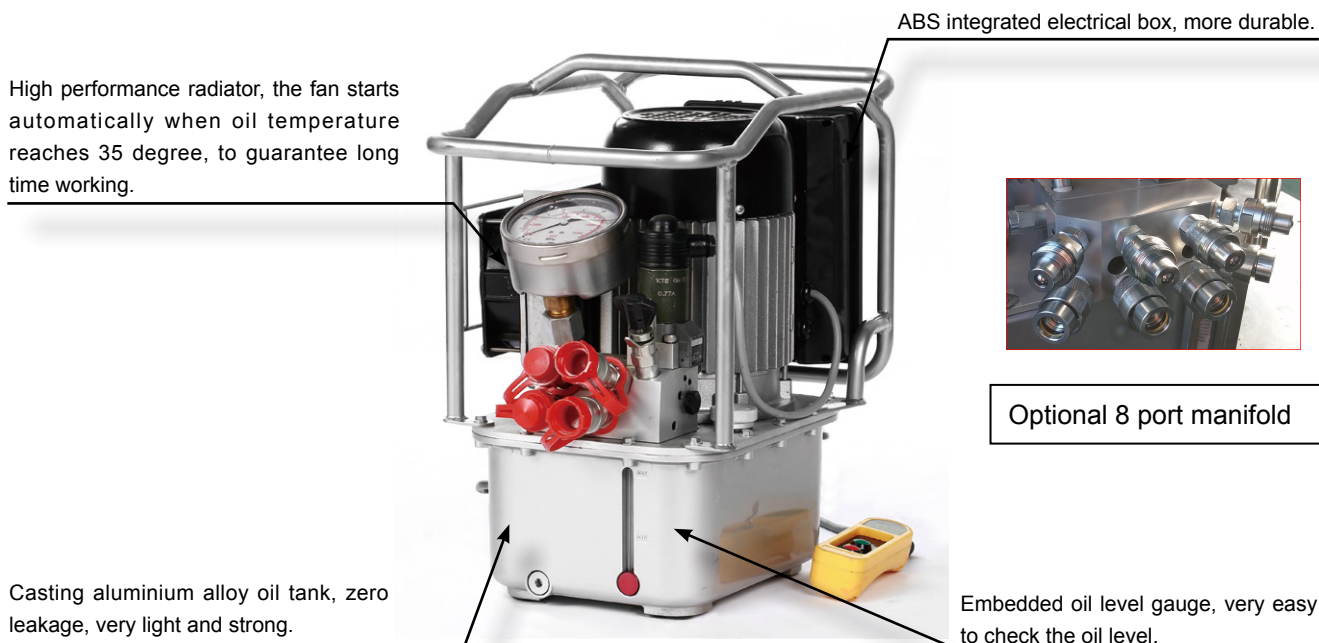
- You should know the working conditions of hydraulic tensioner.
- screw extended nut length greater than 1 times screw diameter
- Round nut or hexagon nut



Hydraulic tension condition questionnaire - please fill in the details.

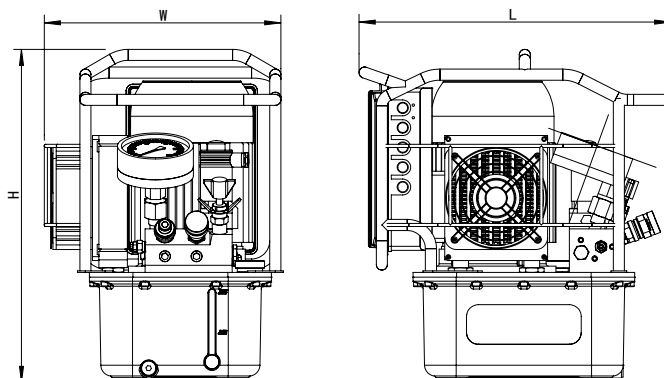
Bolt size	M	mm	
Thread distance	P	mm	
Round nut diameter		mm	
A/F of hexagonal nut	S	mm	
Nut thickness	H3	mm	
Hole height of round nut	H2	mm	
Number of round nut holes	Z		
Hole diameter of round nut	D	mm	
Gasket diameter	B	mm	
Gasket thickness	H1	mm	
Distance between nuts	A	mm	
Length of screw over nut	H4	mm	
Total length of screw	H5	mm	
Distance of screw from top barrier	H6	mm	
Distance of nut center from corner	L1	mm	
Distance of nut center from side wall	L2	mm	
Tensile force	F	KN	

SP304 series - NEW style electric pump for hydraulic wrench



- High efficiency 3 speed flow pressure design, perfect simulation of manual operation, fast speed when light load, low speed when heavy load, the bolt tightening is more precise.
- It can drive 2 hydraulic wrenches simultaneously or 4 if requested.
- Al-Ti alloy pump body, light weight and easy to carry.
- 40-700 bar adjustable output pressure.
- Brushless high power motor, easy maintenance and long life, with starting capacitor, able to start with load, simple operation.

Dimension



Technical parameters

Model	Output port	Power	Pressure(MPa)			Flow(L/min)			Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Medium	Low	High	Medium	Low			
SP304-2	4X1/4 NPT	220V 1.1KW	70	32	6	0.8	1.6	8	8	394*300*420	26
SP304-4	8X1/4 NPT	220V 1.1KW	70	32	6	0.8	1.6	8	8	394*300*420	26

DP304 series - High flow 3 speed hydraulic pump



- Dual motor 3 speed, higher flow and higher efficiency.
- It can drive 4 hydraulic wrenches simultaneously or 8 with distributor.
- Al-Ti alloy pump body.
- 40-700 bar adjustable output pressure.
- Brushless high power motor, easy maintenance and long life, with starting capacitor, able to start with load, simple operation.
- High performance radiator, the fan starts automatically when oil temperature reaches 35 degree.

Technical parameters

Model	Output port	Power	Pressure(MPa)			Flow (L/min)			Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Medium	Low	High	Medium	Low			
DP304-4	8X1/4 NPT	220V 1.1KW	70	32	6	1.6	3.2	15	14	550*400*570	61
DP304-8	16X1/4 NPT	220V 1.1KW									

SP204 series - 2 speed hydraulic wrench pump



- Adopt standard slide valve, stable reversing and good versatility.
- 2 speed flow design, switch flow automatically.
- Al-Ti alloy pump body, light weight and easy to carry.
- Brushless high power motor, easy maintenance and long life.
- High performance radiator, the fan starts automatically when oil temperature reaches 35 degree, to guarantee long time working.
- The electrical box adopts integrated circuit, able to match hydraulic wrench, hydraulic plier etc.

Technical parameters

Model	Output port	Power	Pressure(MPa)		Flow(L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Low	High	Low			
SP204-1	2X1/4 NPT	220V 1.1KW	70	6	0.8	6	8	394*300*420	27
SP204-2	4X1/4 NPT	220V 1.1KW	70	6	0.8	6	8	394*300*420	27
SP204-4	8X1/4 NPT	220V 1.1KW	70	6	0.8	6	8	394*300*420	27.5

AMP304 series - Automatic hydraulic wrench pump



- Integrated circuit control makes it possible to automatically control temperature, automatically stop if no operation after 30s, automatically relief pressure protect the motor and alarm when overload.
- 1.1KW brushless AC motor, high power, free maintenance, long life, long time continuous working.
- Ergonomically designed remote handle, comfortable and durable.
- Solenoid pilot operated valve reverses quickly, pressure relief when shutdown, with starting capacitor, can start with pressure.
- Plug-in hydraulic valve, easy repair and low repair cost.
- Multifunctional digital pressure gauge can switch between MPa, KG, bar and PSI.
- Intelligent one-touch operation, only need press the start button, it will tighten and loose automatically, operator can finish the task very quickly.
- High efficiency 3 speed flow pressure design, perfect simulation of manual operation, fast speed when light load, low speed when heavy load, the bolt tightening is more precise.
- Realize the reversing by pressure numerical signal from integrated circuit and digital pressure gauge, quick response and high efficiency.
- Brushless high power motor, easy maintenance and long life, with starting capacitor, able to start with load, simple operation.
- The reversing valve is controlled by pressure gauge after setting pressure, making regulating valve on OFF position and extend the lifetime greatly.
- Fast speed, high efficiency, 30% higher than normal automatic pump.
- High performance radiator, the fan starts automatically when oil temperature reaches 35 degree, to guarantee long time working.

Technical parameters

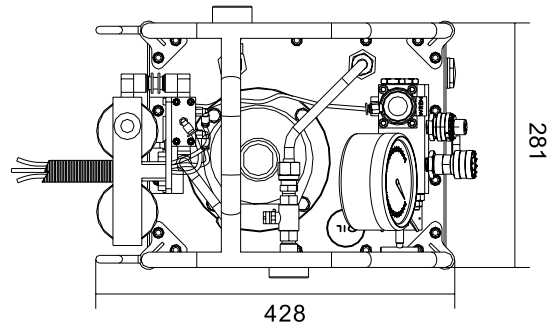
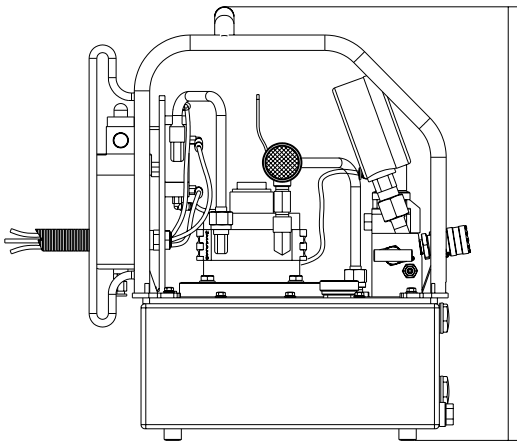
Model	Output port	Power	Pressure(MPa)			Flow(L/min)			Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Medium	Low	High	Medium	Low			
AMP304-2	4X1/4 NPT	220V 1.1KW	70	32	6	0.8	1.6	8	8	394*300*420	28
AMP304-4	8X1/4 NPT	220V 1.1KW	70	32	6	0.8	1.6	8	8	394*300*420	28.5

QMP304 - Pneumatic pump for hydraulic wrench

- Use compressed air as the power source, applicable to coal mine etc, with advantages of anti-explosion, safety, no heat and long time working.
- High performance pneumatic reversing valve, safe and reliable, stable performance.
- Al-Ti alloy pump body, light weight, easy to carry.
- It can drive 2 hydraulic wrenches simultaneously or 4 if requested.
- 4-70MPa adjustable pressure.
- Use 4-8 bar air pressure.
- It can be customized as requested.
- The pressure can be released after pressing the button when the pump stops working.
- Steel frame can protect the pump body and makes it easy to carry.
- Aluminium explosion-proof handle, solid and reliable.



Dimension



Technical parameters

Model	Gas source			Pressure (MPa)			Flow (L/min)			Oil tank (L)	Dimension (mm)	Weight (KG)
	Pressure(bar)	Rated power (kw)	Air consumption (m3/h)	High	Medium	Low	High	Medium	Low			
QMP304	4-8	1.3	134	70	32	6	0.8	1.6	8	8	428*281*448	21

SP2004 series - ultra high pressure electric pump



- SP2004 is the updated version of EMP2004.
- The oil tank is updated into casting aluminium alloy.
- Pump is made of aircraft aluminium, smaller size and lighter weight.
- Max working pressure is 200MPa.
- High performance safety valve, stable pressure.
- High performance radiator can guarantee long time working.

Technical parameters

Model	Output port	Power	Pressure (MPa)		Flow (L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Low	High	Low			
SP2004	G1/4	220V 1.1KW	200	3	0.3	2.5	8	394*300*420	24

ISP2004 series - Intelligent electric pump for tensioner

- Max working pressure 200MPa.
- Applicable to bolt tensioner.
- Adopt Simens controller and human interface, stable performance.
- One-touch operation, just need input tensile force, easy operation.
- Automatic pressure compensation, eliminate pressure loss caused by mechanical deformation, making tensioning more accurate.
- Searchable operation records.
- Automatic pressure relief function.



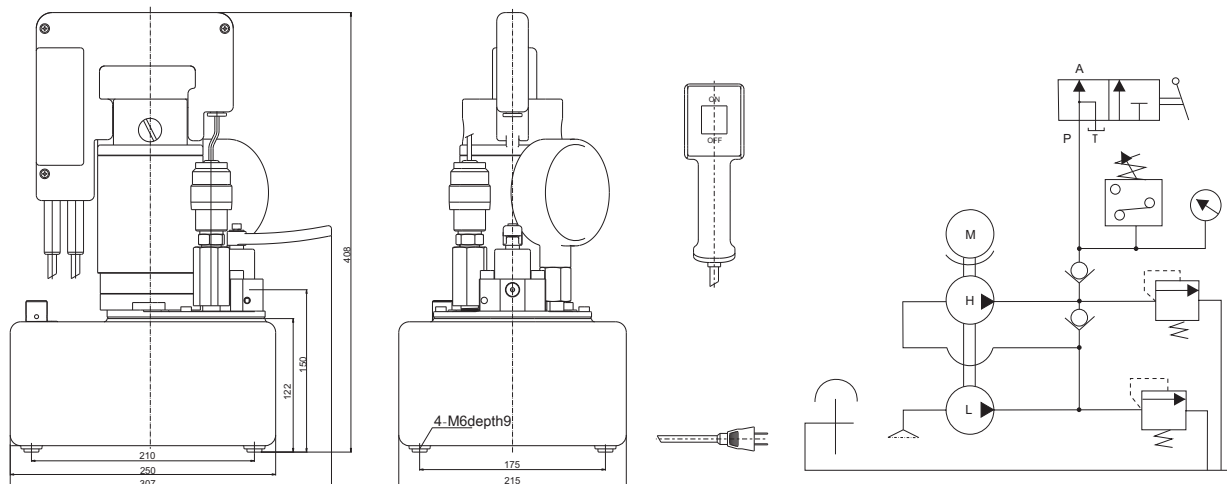
Technical parameters

Model	Output port	Power	Pressure (MPa)		Flow (L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Low	High	Low			
ISP2004	G1/4	220V 1.1KW	200	3	0.3	2.5	8	400*380*600	55

EPS200 Series--Ultra High Pressure Electric Pump



- *Max working pressure 200MPa
- *DC permanent magnet motor, low noise
- *Small size, easy to carry
- *Applicable to bolt tensioners in shipbuilding, wind power industry
- *Automatic switching of high and low voltage, high efficiency
- *Equipped with pressure switch, more convenient to operate



Technical parameters

Model	Output port	Power	Pressure(MPa)		Flow(L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Low	High	Low			
EPS200	M14*1.5	220V 0.45KW	200	3	0.1	2	4.5	394*300*420	17

QMP2004 - Pneumatic Pump for Bolt Tensioner



*Use compressed air as the power source, applicable to coal mine etc, with advantages of anti-explosion, safety, no heat and long time working.

*High performance pneumatic reversing valve, safe and reliable, stable performance.

*Al-Ti alloy pump body, light weight, easy to carry.

*4-70MPa adjustable pressure.

*Use 4-8 bar air pressure.

*It can be customized as requested.

*The pressure can be released after pressing the button when the pump stops working.

*Steel frame can protect the pump body and makes it easy to carry.

*Aluminium explosion-proof handle, solid and reliable.



Technical parameters

Model	Gas source			Pressure(MPa)		Flow(L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
	Pressure (bar)	Rated power(kw)	Air consumption (m3/h)	High	Low	High	Low			
QMP2004	4-8	1.3	134	200	3	0.3	2.5	8	428*281*448	21

FB204 series Ultra high pressure electric pump



- Exd II BT4 three phase asynchronous motor, applicable to explosion proof occasions.
- The electrical control system adopts Exd II BT4 explosion proof magnetic starter, safe.
- External pressure regulating valve, 7-70MPa adjustable pressure.
- 3 stage plunger pump, high efficiency, low pressure fluctuation.
- Equipped with tubular protective frame, easy to move.

Technical parameters

Model	Output port	Power	Pressure(MPa)			Flow(L/min)			Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Medium	Low	High	Medium	Low			
FBD204-1	2X1/4 NPT	380V 1.5KW	70		6	0.8		6	20	560*370*640	75
FBD204-2	4X1/4 NPT	380V 1.5KW	70		6	0.8		6	20	560*370*640	75
FBD204-4	8X1/4 NPT	380V 1.5KW	70		6	0.8		6	20	560*370*640	75

EMP204D / EMP204S hydraulic pump station



- 2 speed pressure, automatic switch of two output flows.
- Al-Ti alloy pump body, light weight.
- Brushless high power motor, easy maintenance and long life.
- Electrical control box adopts integrated circuit, applicable to hydraulic cylinder, hydraulic plier etc.
- Built-in check valve, suitable for long time pressure holding condition.
- Match single acting cylinder, double acting cylinder pump can be customized.

- Light weight and compact design, easy to move.
- 2 speed design, electromagnetic directional control, high flow at low pressure.
- Fast movement of hydraulic parts when no load, high efficiency.
- High pressure high flow, suitable for kinds of hydraulic devices.
- Equipped with tubular protective frame, easy to move.
- Able to customize different capacity oil tank for big ton cylinder.
- Built-in check valve, suitable for long time pressure holding condition.
- Match double acting cylinder.

Technical parameters

Model	Output port	Power	Pressure(MPa)		Flow(L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Low	High	Low			
EMP204D-220	1X3/8 NPT	220V 1.5KW	70	6	1.1	6	8	420*260*530	37
EMP204D-380	1X3/8 NPT	380V 1.5KW	70	6	1.1	6	8	420*260*530	37
EMP204S20-220	2X3/8 NPT	220V 1.5KW	70	6	1.1	6	20	680*570*645	57
EMP204S40-220	2X3/8 NPT	220V 1.5KW	70	6	1.1	6	40	680*570*645	57
EMP204S20-380	2X3/8 NPT	380V 1.5KW	70	6	1.1	6	20	680*570*645	57
EMP204S40-380	2X3/8 NPT	380V 1.5KW	70	6	1.1	6	40	680*570*645	57

EMP086 series - manual electric pump for hydraulic cylinder

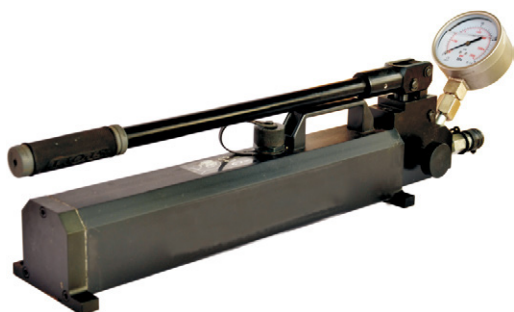


- Plastic spray coating, anti-corrosion, good stain resistance.
- Lightweight and compact design, easy to move.
- 2 speed pump, manual reversing control, high flow at low pressure.
- Fast response of hydraulic parts when no load, high efficiency.
- High flow at high pressure, applicable to kinds of hydraulic devices.
- Equipped with tubular protective frame, easy to move.
- Customizable oil tank as request. Single acting pump also available.

Technical parameters

Model	Output port	Power	Pressure(MPa)		Flow(L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
			High	Low	High	Low			
EMP086-220	2X3/8 NPT	220V 1.5KW	70	6	1.1	6	8	480*440*615	48
EMP086-380	4X3/8 NPT	380V 1.5KW	70	6	1.1	6	8	480*440*615	48

HP series - single acting aluminium high pressure manual pump



- Reasonable structure and design, beautiful, easy to carry.
- Double speed design, efficiency increases by 80%.
- Built-in safety valve for overload protection.
- Large capacity oil tank, applicable to different models of cylinders and tools.
- Al-Ti alloy pump body, light weight, high strength, anti-corrosion, shock resistance.
- Max working pressure 280MPa.
- Built-in precise high/low pressure switching valve, stable and reliable.

Technical parameters

Model	Output port	Pressure(MPa)		Flow(mL/stroke)		Oil tank (cm3)	Dimension (mm)	Weight (KG)
		High	Low	High	Low			
HP100	G1/4	100	2	1.2	24	2000	556*124*160	8.8
HP160	G1/4	160	2	1.2	24	2000	556*124*160	8.8
HP250	G1/4	250	2	1.2	24	2000	556*124*160	8.8
HP280	G1/4	280	2	1.2	24	2000	556*124*160	8.8

PHG series gasoline engine hydraulic pump



- This is a reasonable choice when no power or compressed air at work site.
- Able to match single or double acting hydraulic tools, 70MPa external pressure regulating valve, adjustable between 7-70MPa.
- Equipped with preset one way valve for the engine and hydraulic pump, to prevent the pressure lose from forward position to holding position.
- The pump is driven by a 4 stroke 2.0KW HONDA engine, which has the lowest weighthorse-power and has forced air cooling function compared with normal gasoline engine.
- Equipped with tubular protective frame, easy to move.

Technical parameters

Model	Output port	Engine		Pressure (MPa)		Flow (L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
		Displacement (cm ³)	Speed (r/min)	High	Low	High	Low			
PHG120	M16X1.5	163	3000	70		1.1		40	540*430*500	54
PHG220	M16X1.5	163	3000	70	6	2.5	6	40	450*325*540	54

PEH series gasoline engine hydraulic pump

- As hydraulic power source, this pump mainly works together with professional break-in tools. Main features are compact structure, strong mobility, beautiful appearance, quick connection with tools, good engine cooling conditions.
- Two speed output pressure, switch automatically, high efficiency.
- It can move together with tools on connection status, low noise.

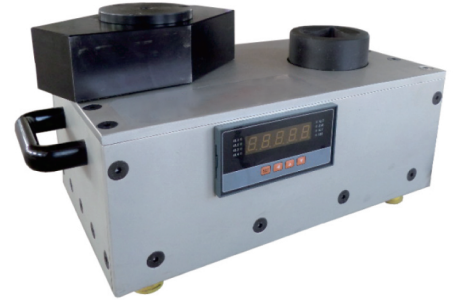


Technical parameters

Model	Output port	Engine		Pressure (MPa)		Flow (L/min)		Oil tank (L)	Dimension (mm)	Weight (KG)
		Displacement (cm ³)	Speed (r/min)	High	Low	High	Low			
PEH220	M16X1.5	86	3600	63	5	0.83	4	40	300*440*470	22

TC-Torque Tester

- All-aluminum titanium alloy cover and the support plate, high strength, good toughness, light weight.
- Digital display integrated display, easy to adjust.
- High detection accuracy $\pm 1.5\%$.
- One detector can replace the square inserts, suitable for a wide range of wrenches.
- The pivot point of the reaction arm can be adjusted 360° , and different types of wrenches can be stably supported.



Technical parameters

Model	Torque detection range (Nm)	Detection precision	Input power	Input square drive	Dimension (mm)	Weight (Kgs)
TC-05	500-5000	$\pm 1.5\%$	220V/50Hz	1"	340*230*170	19
TC-10	1000-10000			1-1/2"	480*290*215	52
TC-20	2000-20000			2- 1/2"	480*290*260	70
TC-30	3000-30000			2-1/2"	480*300*300	85
TC-60	6000-60000			2-1/2"	610*330*300	198

TP-Tensile Calibrator

- All aluminum alloy housing and support, light weight
- Split display, easy to move, observe, adjust convenient
- Suitable for testing screws of different specifications, suitable for wide range
- Slot-type wedge-shaped force-bearing surface, push-pull clamping way, easy to disassemble/install, reliable connection
- High-precision sensor, high detection accuracy, can up to $\pm 1\%$
- Digital display of force value, the reading is more intuitive
- Easy to carry, more suitable for on-site sampling equipment



Technical parameters

Model	Tensile force range (KN)	Detection precision	Input power	Detection bolt range	Dimension (mm)	Weight (Kgs)
TP1000	200-1000	$\pm 1\%$	220V/50Hz	M30-M42	Ø210*257	37
TP2000	400-2000			M45-M64	Ø300*382	62
TP3000	600-3000			Can be customized		

Accessories



Common unit conversion

Torque

1Nm=0.737Ft.lb

1Ft.lb=1.356Nm

1kgm=7.233Ft.lb=9.8Nm

Weight

1Ton=9.8KN 1KN=0.102Ton

1N=0.102Kg 1Kg=9.8N

1Kg=2.204lb=9.8N

Length

1mm=0.039in 1in=25.4mm

1m=3.281Ft 1Ft=0.305m

Pressure

1MPa=1N/mm² 1MPa=10.2kg/cm²

1MPa=10bar 1MPa=145psi

1bar=14.5psi 1psi=0.069bar

Force

1Kg=2.2046lb

1lb=0.4536kg

1Ton=1000Kg

1KN=0.102Ton

Power

1HP=0.746KW

1KW=1.34HP

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