TECPOS®

Technology Power System

CE | ISO 14001 ISO 9001

- CYLINDERS
- PUMPS
- TOOLS
- PUNCH



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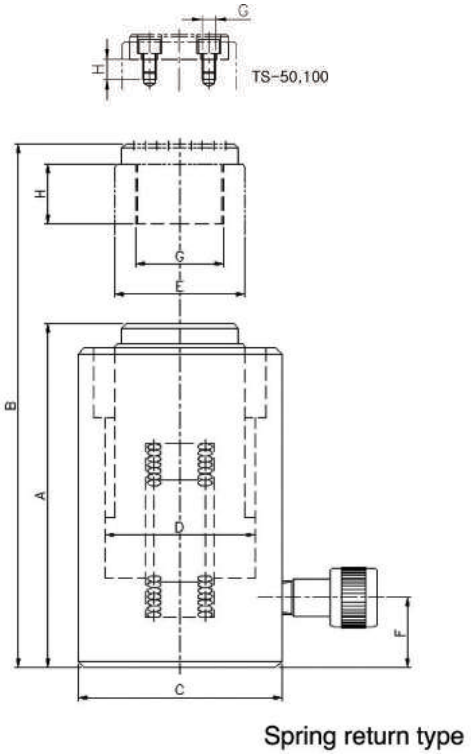


Hydraulic Accessories 67



Single Acting - Cylinders





Spring return type

- Capacity : 5~100ton
- Stroke : 50~200mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- Pump : To use 30% more than oil capacity of Cylinder

■ Model Number Identification

T S - 5 5

- Stroke, 50mm
- Capacity, 5ton
- Single Acting Cylinder
- TECPOS

A TYPE TS



B TYPE TSC





■ Specifications

※ Please refer to pages 30 and 32 for pump details.

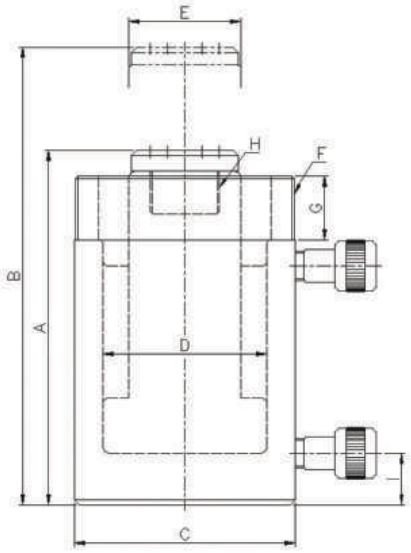
Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Cylinder Bore Dia.	Piston Rod Dia.	Base to Inlet port	Piston Rod Internal Thread	Piston Rod Thread Length	Weight (kg)	Pump
					A	B	C	D	E	F	G	H		
TS-55	5 (45kN)	50	6.38	35	134	184	38	28.5	25	25	3/4-16 UNF	16	1.1	1B or 08
TS-510		100		70	184	284							1.4	
TS-515		150		106	234	384							1.7	
TS-520		200		140	284	484							2.1	
TS-105	10 (108kN)	50	15.2	76	133	183	58	44	38	20	1-8 UNC	19	2.4	
TS-1010		100		152	183	283							3.2	
TS-1015		150		228	233	383							4.0	
TS-1020		200		304	283	483							4.8	
TS-155	15	50	21.2	106	150	200	69	52	43	25	H30×2.0	22	4.2	
TS-1510		100		212	200	300							5.3	
TS-1515		150		319	250	400							6.5	
TS-1520		200		425	300	500							7.6	
TS-255	25 (236kN)	50	33.18	166	165	215	88	65	57	35	M38×2.0	26	7	
TS-2510		100		332	215	315							8.9	
TS-2515		150		498	265	415							10.8	
TS-2520		200		664	315	515							12.7	1C or 17
TS-305	30 (315kN)	50	44.18	220	172	222	102	75	65	35	M44×2.0	30	9.7	1B or 08
TS-3010		100		440	222	322							12.3	
TS-3015		150		660	272	422							14.9	1C or 17
TS-3020		200		880	322	522							17.5	
TS-505	50 (505kN)	50	70.88	355	173	223	127	95	85	35	M10×1.5	15	15.4	1B or 08
TS-5010		100		710	223	323							19.5	1C or 17
TS-5015		150		1070	273	423							23.5	
TS-5020		200		1425	323	523							27.5	
TS-10010	95 (947kN)	100	132.7	1330	226	326	165	130	110	40	M10×1.5	15	32.7	25
TS-10015		150		1991	286	436							41.1	

※ The above options are subject to change without prior notice

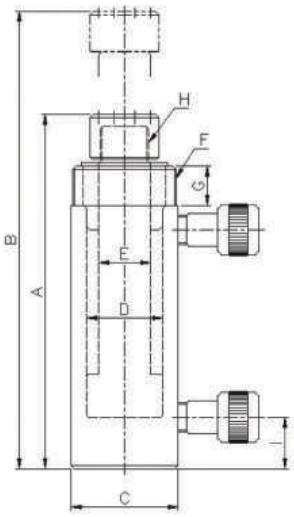
Double Acting - Cylinders



- Capacity : 5~1000ton
- Stroke : 150~300mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- Faster retraction under hydraulic power.
- Removable plunger caps



50ton Over



5, 10, 20, 30ton

■ Model Number Identification

TDC-1015

- 1015 • Stroke, 150mm
- 10 • Capacity, 10ton
- TDC • Double-Acting Cylinder
- TECPOS

■ Specifications

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Cylinder Bore Dia.	Piston Rod Dia.	Collar Thread	Collar Thread Length	Piston Rod Thread Length	Base to Inlet Port	Weight (kg)	Pump
					A	B	C	D	E	F	G	H	I		
TDC-515	5 (45kN)	150	9.6	144	285	435	45	35	25	M45 × P1.5	25	M20 × P1.5	25	3.1	1B or 08 Double
TDC-530		300		288	433	733							30	4.4	
TDC-1015	10 (108kN)	150	15	228	314	464	62	44	30	M60 × P2.0	30	M28 × P2	30	6.0	
TDC-1030		300		456	464	764								8.7	
TDC-2515	25 (236kN)	150	33.2	497.7	363	513	88	65	45	M85 × P2.5	50	M40 × P2	36	14.0	
TDC-2530		300		995.4	513	813								19.4	1C or 17 Double
TDC-3015	30 (315kN)	150	44.2	662.6	398	548	105	75	55	M100 × P2.5	55	M50 × P2	40	22.4	
TDC-3030		300		1325.2	548	848								30.4	
TDC-5015	50 (505kN)	150	70.8	1063	343	493	128	95	65	M127 × P2.5	45	M40 × P2	45	28.5	25 Double
TDC-5030		300		2126	493	793								39.2	
TDC-10015	95 (947kN)	150	132.7	1990	352	502	178	130	100	M175 × P3	50	M65 × P3	45	58.6	
TDC-10030		300		3980	502	802								82.2	
TDC-15015	150 (1495kN)	150	213.8	3207	381	531	218	165	120	M215 × P3.5	55	M70 × P4	50	95	3B Double
TDC-15030		300		6414	531	831								125.6	
TDC-20015	200 (1982kN)	150	283.5	4253	400	550	248	190	135	M245 × P4	60	M80 × P4	55	129	
TDC-20030		300		8506	550	850								169	
TDC-30015	300 (3033kN)	150	433.7	6506	433	583	315	235	170	M315 × P4	70	M80 × P4	55	230	
TDC-30030		300		13012	583	883								298	
TDC-50015	500 (4944kN)	150	706.8	10603	475	625	405	300	215	-	-	M90 × P4	75	490	3HP-Double
TDC-50030		300		21206	625	925								590	
TDC-80015	800 (8143kN)	150	1164.2	17462	550	700	525	385	280	-	-	M150 × P4	100	782	5HP-Double
TDC-80030		300		34924	700	1000								989	
TDC-100015	1000 (10157kN)	150	1452.2	21783	610	760	585	430	-	-	-	-	-	1216	5HP-Double
TDC-100030		300		43566	760	1060								1533	

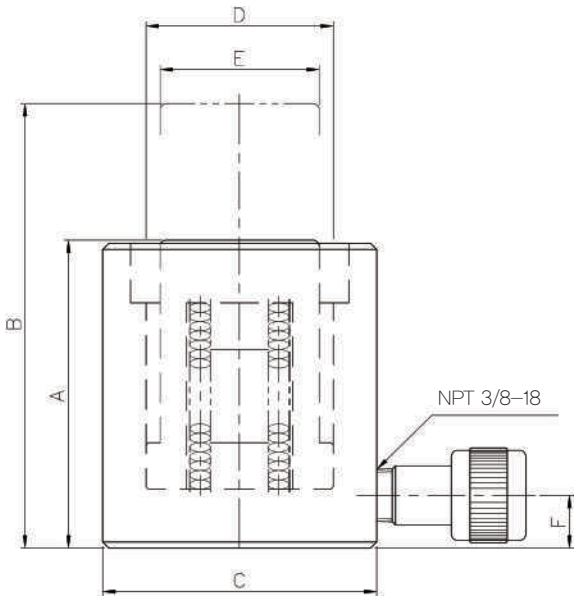
※ The above options are subject to change without prior notice

Shorty Cylinders









- Capacity : 10~200ton
- Stroke : 25~50mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- Compact, flat design for confined spaces.

■ Model Number Identification

TSSC-1044

- Stroke, 44mm
- Capacity, 10ton
- Shorty Cylinder
- TECPOS

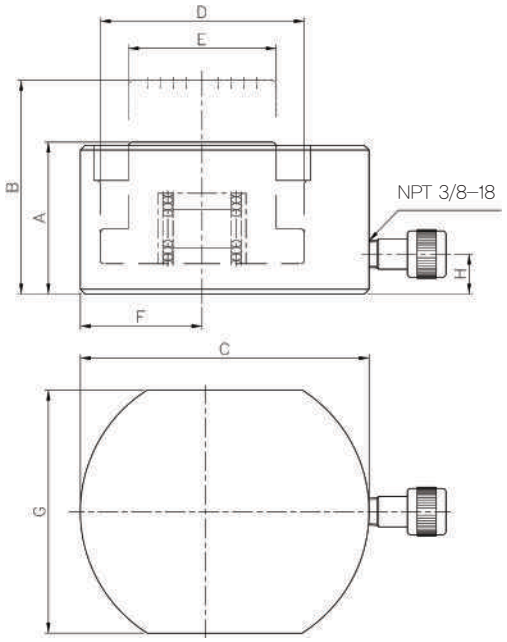
■ Specifications

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Cylinder Bore Dia.	Piston Rod Dia.	Base to Inlet Port	Weight (kg)	Pump
					A	B	C	D	E	F		
TSSC-1025	10 (105kN)	25	15.2	38	80	105	68	44	38	17	2.2	1B or 08
TSSC-1044	10 (105kN)	44	15.2	66	99	143	68	44	38	17	2.6	
TSSC-2025	20 (198kN)	25	28.3	71	80	105	88	60	51	17	3.5	
TSSC-2044	20 (198kN)	44	28.3	124	99	143	88	60	51	17	4.3	
TSSC-3025	30 (308kN)	25	44.2	111	80	105	104	75	65	17	4.9	
TSSC-3044	30 (308kN)	44	44.2	194	99	143	104	75	65	17	6.0	
TSSC-5025	45 (444kN)	25	63.6	160	84	109	125	90	78	17	7.5	
TSSC-5050	45 (444kN)	50	63.6	318	109	159	125	90	78	17	9.5	
TSSC-10050	95 (928kN)	50	132.7	663	139	189	165	130	100	22	20.2	1C or 17
TSSC-15050	150 (1406kN)	50	201.06	1005	170	220	208	160	135	28	40	
TSSC-20050	200 (1982kN)	50	283.5	1417	180	230	245	190	170	33	60.1	

※ The above options are subject to change without prior notice

Low Profile Cylinders





- Capacity : 5~150ton
- Stroke : 6~16mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- TECPOS low profile cylinders are designed for use where there is minimal clearance for insertion of cylinders
- Available from 10 to 150 ton capacity, single-acting Spring Return type.

■ Model Number Identification

TSLC-1011

- Stroke, 11mm
- Capacity, 10ton
- Low Profile Cylinder
- TECPOS

■ **Specifications**

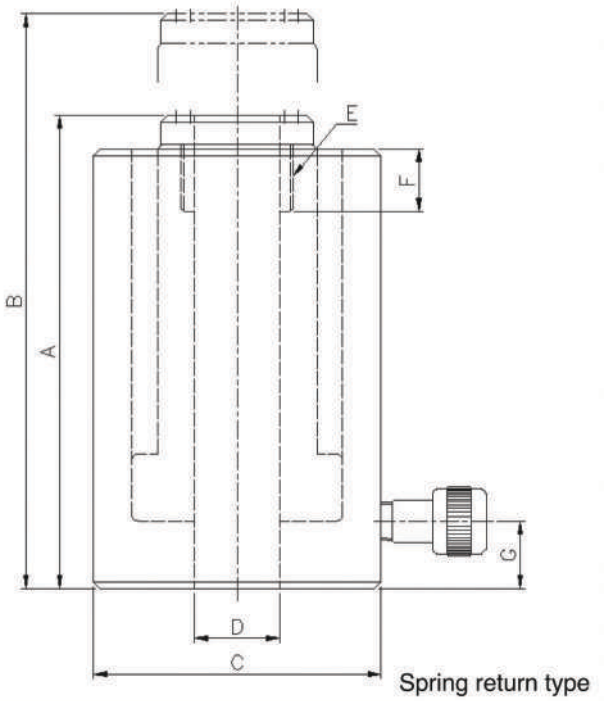
Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height A	Extended Height B	Cylinder Out Dia. C	Cylinder Bore Dia. D	Piston Rod Dia. E	Plunger to Base F	Cylinder Dimension G	Base to Inlet Port H	Weight (kg)	Pump
TSLC-56	5 (42kN)	6	6.16	3.7	40	46	59	28	25	21.5	42	21	0.7	1B or 08
TSLC-516	5 (42kN)	16	6.16	9.9	40	56	59	28	25	21.5	42	20	0.8	
TSLC-1011	10 (105kN)	11	15.2	16	45	56	84	44	38	28.5	56	21	1.5	
TSLC-2011	20 (198kN)	11	28.3	31	52	63	102	60	54	42	76	21	2.7	
TSLC-3013	30 (292kN)	13	41.85	53	59	72	115	73	64	48	95	21	4.1	
TSLC-5016	45 (424kN)	16	60.8	99	67	83	139	88	75	57.5	114	21	6.8	1C or 17
TSLC-7516	75 (726kN)	16	103.87	164	79	95	165	115	85	70	140	21	11.2	
TSLC-10016	90 (885kN)	16	126.7	203	86	102	179	127	95	77.5	152	25	14.3	
TSLC-15016	150 (1405kN)	16	201	317	100	116	215	160	115	97	190	24	25	

※ The above options are subject to change without prior notice

Single - Acting Center Hole Cylinders



- Capacity : 10~100ton
- Stroke : 41~150mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- Designed for use with screws, rods, cables, etc.



Spring return type

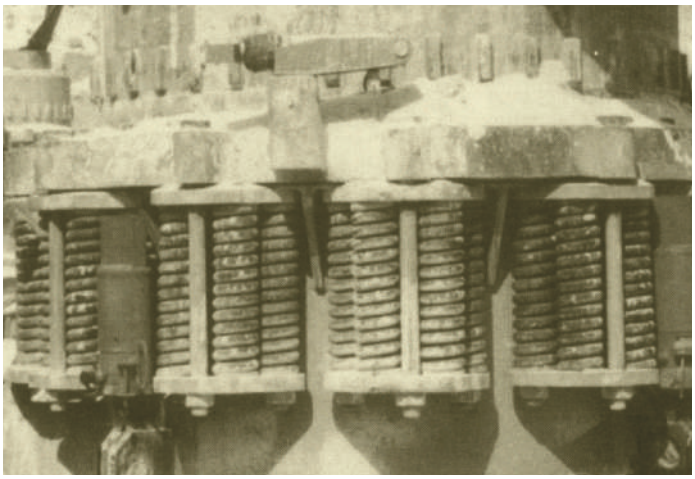
■ Model Number Identification

TCH-1041

- Stroke, 41mm
- Capacity, 10ton
- Center Hole Cylinder
- TECPOS

■ Specifications

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Center Hole Dia.	Collar Thread	Collar Thread Length	Base to Inlet Port	Weight (kg)	Pump
					A	B	C	D	E	F	G		
TCH-128	12 (122kN)	8	18.4	14.7	55	63	69	17.3	3/4"-16 UNF	16	20	1.7	1B or 08
TCH-1241	12 (122kN)	41	17.6	70.5	121	162	69	20	-	-	25	2.7	
TCH-1276	12 (122kN)	76	17.6	133.7	184	260	69	20	-	-	25	2.7	
TCH-2050	20 (221kN)	50	31.67	158.4	162	212	98	27	$1\frac{9}{16}$ - 16	24	20	7.5	
TCH-20150	20 (221kN)	150	31.67	475	295	445	98	27	$1\frac{9}{16}$ - 16	24	25	16	
TCH-3063	30 (333kN)	63	47.7	300.6	179	242	115	33	M48×P1.5	20	21	10.7	
TCH-30150	30 (333kN)	150	47.7	716	320	470	115	33	M48×P1.5	20	24	20.2	1C or 17
TCH-6075	60 (611kN)	75	87.46	656	249	324	158	54	M70×P2.0	28	30	27.6	
TCH-60150	60 (611kN)	150	87.46	1311	334	484	158	54	M70×P2.0	28	30	38	
TCH-10075	100 (1000kN)	75	143.13	1049	254	329	216	80	M103×P2.0	28	35	51.5	

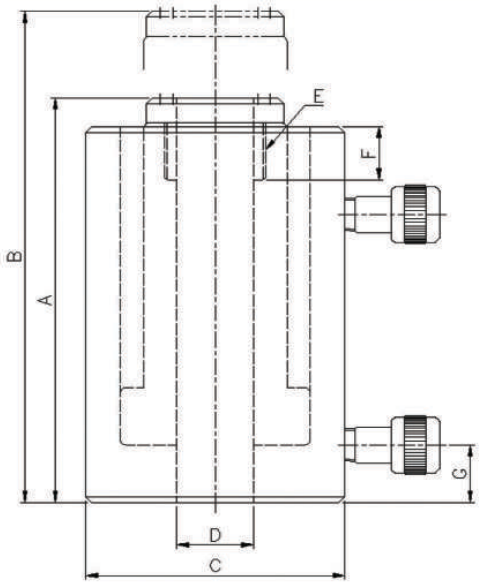




※ The above options are subject to change without prior notice

Double - Acting Center Hole Cylinders





- Capacity : 10~100ton
- Stroke : 156~254mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- Designed for use with screws, rods, cables, etc

■ Model Number Identification

TDCH-10254

- Stroke, 254mm
- Capacity, 10ton
- Double -Acting Center Hole
- TECPOS

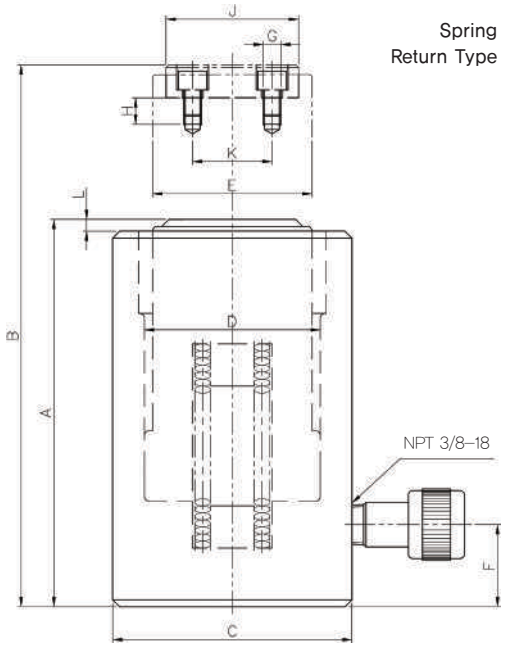
■ **Specifications**

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Center Hole Dia.	Collar Thread	Collar Thread Length	Base to Inlet Port	Weight (kg)	Pump
					A	B	C	D	E	F	G		
TDCH-12254	12 (122kN)	254	14.4	365	406	660	70	20	M32×P1.5	20	50	9.2	1B or 08 Double
TDCH-30210	30 (333kN)	210	44.2	928	425	635	115	33	M54×P2.5	50	55	27.5	1C or 17 Double
TDCH-60156	60 (611kN)	156	87.46	1365	380	536	158	54	M74×P2.0	36	55	42	
TDCH-100168	100 (1000kN)	168	140.39	2358	382	550	216	80	M116×P3.0	50	65	79	50 Double

※ The above options are subject to change without prior notice

Aluminum Cylinders





- Capacity : 20~150ton
- Stroke : 50~150mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- TECPOS aluminum cylinders weigh nearly half as much as steel cylinders.

■ Model Number Identification

TAR-2050

- Stroke, 50mm
- Capacity, 20ton
- Aluminum Cylinder
- TECPOS

■ Specifications

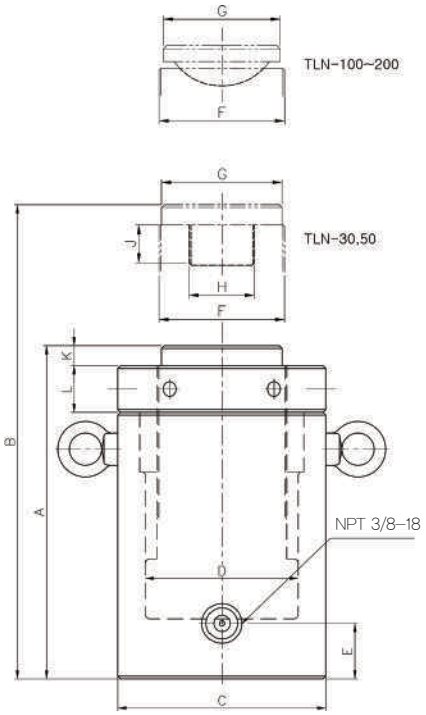
Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Cylinder Bore Dia.	Piston Rod Dia.	Base to Inlet Port	Piston Rod Interval Thread	Piston Rod Thread Length	Head Dia.	Bolt Interval	Head Length	Weight (kgs)	Pump
					A	B	C	D	E	F	G	H	J	K	L		
TAR-2050	20 (198kN)	50	28.3	145	150	200	89	60	54	28	M6	10	46	25	7	3.2	1B or 08
TAR-20100		100		290	200	300										4.1	
TAR-20150		150		435	250	400										4.8	
TAR-3050	30 (308kN)	50	44.18	220	168	218	108	75	65	35	M6	15	57	36	7	5.0	
TAR-30100		100		440	218	318										6.3	
TAR-30150		150		660	268	418										7.5	1C or 17
TAR-5050	50 (494kN)	50	70.88	355	182	232	134	95	85	35	M10	15	75	45	9	8.7	1B or 08
TAR-50100		100		708	232	332										10.2	
TAR-50150		150		1063	282	432										12.9	1C or 17
TAR-10050	95 (928kN)	50	132.73	660	193	243	189	130	110	40	M10	15	98	60	8	16.5	
TAR-100100		100		1320	243	343										20.6	
TAR-100150		150		1980	293	443										23.4	25
TAR-15050	150 (1406kN)	50	201.06	1005	208	258	238	160	135	45	M10	20	119	75	8	27	
TAR-150100		100		2010	258	358										33.4	
TAR-150150		150		3016	308	458										39.8	50

※ The above options are subject to change without prior notice

Lock Nut Cylinders



Spring Return type



- Capacity : 30~200ton
- Stroke : 200~230mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- Particularly used in the construction industry to support bridges during construction.

■ Model Number Identification

TLN-30200

- Stroke, 200mm
- Capacity, 30ton
- Lock Nut Cylinder
- TECPOS

■ Specifications

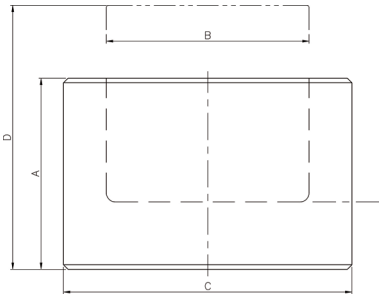
Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Cylinder Bore Dia.	Base to Inlet Port	Piston Rod Dia.	Head Dia.	Piston rod Interval Thread	Piston rod Thread Length	Head Length	Lock Nut Height	Weight (kg)	Pump
					A	B	C	D	E	F	G	H	J	K	L		
TLN-30200	30 (309kN)	200	44.1	883	365	565	102	75	35	Tr68	60	M30x2.0	20	15	35	23	1C or 17
TLN-50200	50 (496kN)	200	70.8	1418	385	585	127	95	40	Tr88	80	M38x2.0	25	15	40	38	
TLN-100230	95 (928kN)	230	132.7	3052	475	705	168	130	50	Tr110	100	-	-	25	55	75	50
TLN-150230	150 (1496kN)	230	213.8	4918	532	762	225	165	60	Tr140	130	-	-	32	75	164	3B
TLN-200230	200 (1983kN)	230	283.5	6521	552	782	255	190	65	Tr165	152	-	-	32	80	224	

※ The above options are subject to change without prior notice

Hydraulic Jacks

• Propeller Fitting Jacks



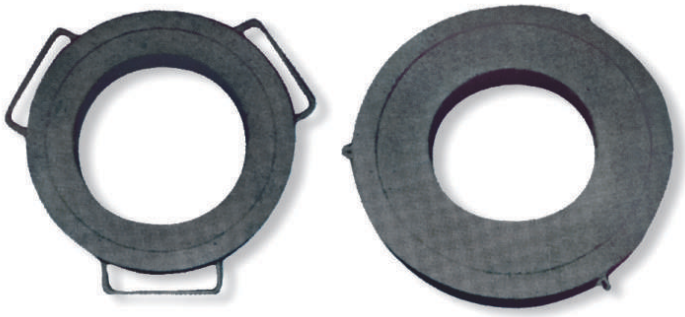


- Capacity : 50~200ton
- Stroke : 10~20mm
- Maximum Pressure : 700~2000bar
- For mounting and dismounting marine propellers.

■ Specifications

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎠)	Max Pressure (bar)	Jack Height	Cylinder Bore Dia.	Cylinder Out Dia.	Extended Height
					A	B	C	D
TPFJ-5012	50 (495kN)	12	70.8	700	85	95	127	97
TPFJ-10010	100 (1001kN)	10	50.2	2000	50	80	118	60
TPFJ-10015	100 (1003kN)	15	143.1	700	110	135	183	125
TPFJ-20020	200 (2075kN)	20	298.6	700	130	190	245	150
TPFJ-20011	200 (2089kN)	11	103.8	2000	60	115	175	71

• Disk Ram Type



- Capacity : 300~1500ton
- Stroke : 10~12mm
- Maximum Pressure : 700bar
- Designed for marine propeller fitting using a single disk ram.

■ Specifications

Model	Cylinder Capacity ton (kN)	Cylinder Effective Area (㎠)	Stroke (mm)	Closed Height (mm)	Weight (kg)
TDR-30010	300 (2998kN)	428.5	10	80	≒109.4
TDR-50010	500 (4996kN)	714.2	10	90	≒179.5
TDR-80010	800 (7994kN)	1142.8	10	100	≒280.4
TDR-100012	1000 (9993kN)	1428.5	12	110	≒428.4
TDR-150012	1500 (14989kN)	2142.8	12	120	≒569.1

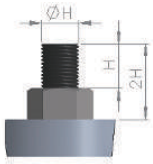
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Hydraulic Bolt Tensioner

ITS Series - Top side bolt tensioners CE



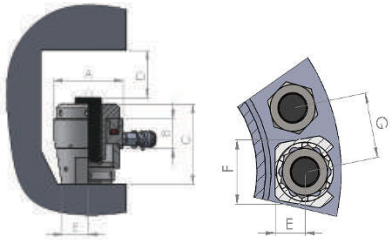
ITS Series
- M20~M100 (3/4" to 4")
- 24.2ton ~ 319ton (238 kN ~ 3133 kN)
- Stroke 10 ~ 15mm
- 1500 bar (21750 psi)



※ Requires a minimum stud height corresponding to the bolt diameter (H)x1.

Features

- The ITS topside tensioner consists of 7 capacity load cells ranging from the M20 to M100(3/4"~4") specification.
- Interchangeable adapter 1,500 bar. (21,750psi)
- Designed to fit most sizes of ANSI B16.5, ANSI B16.47 flanges and some compact flanges.
- Maximum stroke : 15 mm (ITS1 model: 10 mm) with stroke indicator to prevent piston overextension.
- All ITS models have stroke indicator.
- Dual quick connect inlet and outlet couplers for easy multiple tensioner connection.
- High-quality seal enables high durability, no leakage, and easy maintenance.



Specifications

METRIC TENSIONER UNIT			IMPERIAL TENSIONER UNIT		MAX PRESSURE	MAX CAPACITY		EFFECTIVE AREA	STROKE	WEIGHT	DIMENSIONS (mm)						
					(bar)	(kN)	(ton)	(cm²)	(mm)	(kg)	A	B	C	D	E	F	G
ITS1	ITS1-M20B1	M20x2.5	ITS1-034B1	3/4"-10 UNC	1500	238	24.2	15.9	10	1.7	ø74	45	87	68	28	56	48
	-	-	ITS1-078B1	7/8"-9 UNC	1500	238	24.2	15.9	10	1.7	ø74	45	87	65	28	56	50
	ITS1-M22B2	M22x2.5	-	-	1500	238	24.2	15.9	10	1.9	ø74	45	95	75	30	63	53
	ITS1-M24B2	M24x3	ITS1-100B2	1"- 8 UN	1500	238	24.2	15.9	10	1.9	ø74	45	95	74	30	63	57
	ITS1-M27B2	M27x3	ITS1-118B2	1 1/8"-8 UN	1500	238	24.2	15.9	10	1.9	ø74	45	95	71	30	63	61
ITS2	ITS2-M27B3	M27x3	ITS2-118B3	1 1/8"-8 UN	1500	465	47.4	31	15	3.5	ø102	54	125	100	39	83	69
	ITS2-M30B3	M30x3.5	-	-	1500	465	47.4	31	15	3.5	ø102	54	125	98	39	83	71
	ITS2-M33B3	M33x3.5	ITS2-114B3	1 1/4"-8 UN	1500	465	47.4	31	15	3.5	ø102	54	125	96	39	83	73
	ITS2-M36B3	M36x4	ITS2-138B3	1 3/8"-8 UN	1500	465	47.4	31	15	3.5	ø102	54	125	93	39	83	76
	ITS2-M39B3	M39x4	ITS2-112B3	1 1/2"-8 UN	1500	465	47.4	31	15	3.5	ø102	54	125	91	39	83	79
ITS3	ITS3-M39B1	M39x4	ITS3-112B1	1 1/2"-8 UN	1500	830	84.6	55.3	15	6.1	ø133	56	145	112	47	102	88
	ITS3-M42B1	M42x4.5	ITS3-158B1	1 5/8"-8 UN	1500	830	84.6	55.3	15	6.1	ø133	56	145	110	47	102	91
	ITS3-M45B1	M45x4.5	ITS3-134B1	1 3/4"-8 UN	1500	830	84.6	55.3	15	6.1	ø133	56	145	106	47	102	94
	ITS3-M48B1	M48x5	ITS3-178B1	1 7/8"-8 UN	1500	830	84.6	55.3	15	6.1	ø133	56	145	104	47	102	97
	ITS3-M45B2	M45x4.5	ITS3-134B2	1 3/4"-8 UN	1500	830	84.6	55.3	15	6.3	ø133	56	150	111	50	110	98
	ITS3-M48B2	M48x5	ITS3-178B2	1 7/8"-8 UN	1500	830	84.6	55.3	15	6.3	ø133	56	150	109	50	110	100
	ITS3-M52B2	M52x5	ITS3-200B2	2"- 8 UN	1500	830	84.6	55.3	15	6.3	ø133	56	150	105	50	110	104
ITS4	ITS4-M48B1	M48x5	ITS4-178B1	1 7/8"-8 UN	1500	1266	129.1	84.4	15	10.6	ø163	57	147	105	50	112	104
	ITS4-M52B1	M52x5	ITS4-200B1	2"- 8 UN	1500	1266	129.1	84.4	15	10.6	ø163	57	147	101	50	112	105
	ITS4-M52B2	M52x5	ITS4-200B2	2"- 8 UN	1500	1266	129.1	84.4	15	11.8	ø163	57	163	117	62	135	117
	ITS4-M56B2	M56x5.5	ITS4-214B2	2 1/4"-8 UN	1500	1266	129.1	84.4	15	11.8	ø163	57	163	114	62	135	121
	ITS4-M60B2	M60x5.5	-	-	1500	1266	129.1	84.4	15	11.8	ø163	57	163	111	62	135	122
	ITS4-M64B2	M64x6	ITS4-212B2	2 1/2"-8 UN	1500	1266	129.1	84.4	15	11.8	ø163	57	163	108	62	135	127
ITS5	ITS5-M56B1	M56x5.5	ITS5-214B1	2 1/4"-8 UN	1500	1846	188	123.1	15	14.5	ø193	60	169	122	68	140	122
	ITS5-M60B1	M60x5.5	-	-	1500	1846	188	123.1	15	14.5	ø193	60	169	118	68	140	125
	ITS5-M64B1	M64x6	ITS5-212B1	2 1/2"-8 UN	1500	1846	188	123.1	15	14.5	ø193	60	169	115	68	140	130
	ITS5-M68B2	M68x6	-	-	1500	1846	188	123.1	15	16	ø193	60	182	125	73	152	136
	ITS5-M72B2	M72x6	ITS5-234B2	2 3/4"-8 UN	1500	1846	188	123.1	15	16	ø193	60	182	121	73	152	140
	ITS5-M76B2	M76x6	ITS5-300B2	3"- 8 UN	1500	1846	188	123.1	15	16	ø193	60	182	118	73	152	147
ITS6	ITS6-M72B3	M72x6	ITS6-234B3	2 3/4"-8 UN	1500	2638	269	176.1	15	23.5	ø233	64	212	151	84	180	155
	ITS6-M76B3	M76x6	ITS6-300B3	3"- 8 UN	1500	2638	269	176.1	15	23.5	ø233	64	212	147	84	180	160
	ITS6-M80B3	M80x6	-	-	1500	2638	269	176.1	15	23.5	ø233	64	212	144	84	180	158
	ITS6-M85B3	M85x6	ITS6-314B3	3 1/4"-8 UN	1500	2638	269	176.1	15	23.5	ø233	64	212	141	84	180	166
	ITS6-M90B3	M90x6	ITS6-312B3	3 1/2"-8 UN	1500	2638	269	176.1	15	23.5	ø233	64	212	137	84	180	171
ITS7	ITS7-M85B3	M85x6	ITS7-314B3	3 1/4"-8 UN	1500	3133	319	208.9	15	34	ø255	72	270	199	90	211	177
	ITS7-M90B3	M90x6	ITS7-312B3	3 1/2"-8 UN	1500	3133	319	208.9	15	34	ø255	72	270	195	90	211	187
	ITS7-M95B3	M95x6	ITS7-334B3	3 3/4"-8 UN	1500	3133	319	208.9	15	34	ø255	72	270	191	90	211	192
	ITS7-M100B3	M100x6	ITS7-400B3	4"- 8 UN	1500	3133	319	208.9	15	34	ø255	72	270	185	90	211	198

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- Change threads within the same capacity tensioner, only the puller and socket (D) parts can be replaced without changing the bridge (B) if the suffix (B1,B2,B3) of the model number is the same.
  If the suffixes are different, the conversion kits(C,D), the bridge(B) must be replaced.
  (ITS2, ITS6, ITS7 models use a single bridge(B) B3, so you only need to replace the conversion kits(C,D) of each capacity tensioner.)
  Ex)
  1. The conversion kits(C,D) TI1–078B1 and RS1–078B1 are required to change from ITS1–M20B1 to ITS1–078B1
  2. The conversion kits(C,D) TI1–M27B2, RS1–M27B2, bridge(B) ITS1–B2 are required to change from ITS1–M20B1 to ITS–M27B2. (B1→B2 change requires bridge(B) to be replaced as well.)

- Smaller bridges (B1) are compatible within the same capacity tensioner.
- Larger bridges (B2) are compatible within the same capacity tensioner.
- Single bridge (B3) is compatible within the same capacity tensioner.

Specifications

METRIC TENSIONER UNIT			IMPERIAL TENSIONER UNIT		LOAD CELL	BRIDGE	METRIC CONVERSION KITS		IMPERIAL CONVERSION KITS		TOMMY BAR
							PULLER	SOCKET	PULLER	SOCKET	
					A	B	C	D	C	D	E
ITS1	ITS1-M20B1	M20x2.5	ITS1-034B1	3/4"-10 UNC	ITS1-LC	ITS1-B1	TI1-M20B1	RS1-M20B1	TI1-034B1	RS1-034B1	ITB06
	-	-	ITS1-078B1	7/8"-9 UNC	ITS1-LC	ITS1-B1	-	-	TI1-078B1	RS1-078B1	ITB06
	ITS1-M22B2	M22x2.5	-	-	ITS1-LC	ITS1-B2	TI1-M22B2	RS1-M22B2	-	-	ITB06
	ITS1-M24B2	M24x3	ITS1-100B2	1"- 8 UN	ITS1-LC	ITS1-B2	TI1-M24B2	RS1-M24B2	TI1-100B2	RS1-100B2	ITB06
	ITS1-M27B2	M27x3	ITS1-118B2	1 1/8"- 8 UN	ITS1-LC	ITS1-B2	TI1-M27B2	RS1-M27B2	TI1-118B2	RS1-118B2	ITB06
ITS2	ITS2-M27B3	M27x3	ITS2-118B3	1 1/8"-8 UN	ITS2-LC	ITS2-B3	TI2-M27B3	RS2-M27B3	TI2-118B3	RS2-118B3	ITB08
	ITS2-M30B3	M30x3.5	-	-	ITS2-LC	ITS2-B3	TI2-M30B3	RS2-M30B3	-	-	ITB08
	ITS2-M33B3	M33x3.5	ITS2-114B3	1 1/4"-8 UN	ITS2-LC	ITS2-B3	TI2-M33B3	RS2-M33B3	TI2-114B3	RS2-114B3	ITB08
	ITS2-M36B3	M36x4	ITS2-138B3	1 3/8"-8 UN	ITS2-LC	ITS2-B3	TI2-M36B3	RS2-M36B3	TI2-138B3	RS2-138B3	ITB08
	ITS2-M39B3	M39x4	ITS2-112B3	1 1/2"-8 UN	ITS2-LC	ITS2-B3	TI2-M39B3	RS2-M39B3	TI2-112B3	RS2-112B3	ITB08
ITS3	ITS3-M39B1	M39x4	ITS3-112B1	1 1/2"-8 UN	ITS3-LC	ITS3-B1	TI3-M39B1	RS3-M39B1	TI3-112B1	RS3-112B1	ITB10
	ITS3-M42B1	M42x4.5	ITS3-158B1	1 5/8"-8 UN	ITS3-LC	ITS3-B1	TI3-M42B1	RS3-M42B1	TI3-158B1	RS3-158B1	ITB10
	ITS3-M45B1	M45x4.5	ITS3-134B1	1 3/4"-8 UN	ITS3-LC	ITS3-B1	TI3-M45B1	RS3-M45B1	TI3-134B1	RS3-134B1	ITB10
	ITS3-M48B1	M48x5	ITS3-178B1	1 7/8"-8 UN	ITS3-LC	ITS3-B1	TI3-M48B1	RS3-M48B1	TI3-178B1	RS3-178B1	ITB10
	ITS3-M45B2	M45x4.5	ITS3-134B2	1 3/4"-8 UN	ITS3-LC	ITS3-B2	TI3-M45B2	RS3-M45B2	TI3-134B2	RS3-134B2	ITB10
	ITS3-M48B2	M48x5	ITS3-178B2	1 7/8"-8 UN	ITS3-LC	ITS3-B2	TI3-M48B2	RS3-M48B2	TI3-178B2	RS3-178B2	ITB10
	ITS3-M52B2	M52x5	ITS3-200B2	2"- 8 UN	ITS3-LC	ITS3-B2	TI3-M52B2	RS3-M52B2	TI3-200B2	RS3-200B2	ITB10
ITS4	ITS4-M48B1	M48x5	ITS4-178B1	1 7/8"-8 UN	ITS4-LC	ITS4-B1	TI4-M48B1	RS4-M48B1	TI4-178B1	RS4-178B1	ITB10
	ITS4-M52B1	M52x5	ITS4-200B1	2"- 8 UN	ITS4-LC	ITS4-B1	TI4-M52B1	RS4-M52B1	TI4-200B1	RS4-200B1	ITB10
	ITS4-M52B2	M52x5	ITS4-200B2	2"- 8 UN	ITS4-LC	ITS4-B2	TI4-M52B2	RS4-M52B2	TI4-200B2	RS4-200B2	ITB10
	ITS4-M56B2	M56x5.5	ITS4-214B2	2 1/4"-8 UN	ITS4-LC	ITS4-B2	TI4-M56B2	RS4-M56B2	TI4-214B2	RS4-214B2	ITB10
	ITS4-M60B2	M60x5.5	-	-	ITS4-LC	ITS4-B2	TI4-M60B2	RS4-M60B2	-	-	ITB10
	ITS4-M64B2	M64x6	ITS4-212B2	2 1/2"-8 UN	ITS4-LC	ITS4-B2	TI4-M64B2	RS4-M64B2	TI4-212B2	RS4-212B2	ITB10
ITS5	ITS5-M56B1	M56x5.5	ITS5-214B1	2 1/4"-8 UN	ITS5-LC	ITS5-B1	TI5-M56B1	RS5-M56B1	TI5-214B1	RS5-214B1	ITB14
	ITS5-M60B1	M60x5.5	-	-	ITS5-LC	ITS5-B1	TI5-M60B1	RS5-M60B1	-	-	ITB14
	ITS5-M64B1	M64x6	ITS5-212B1	2 1/2"-8 UN	ITS5-LC	ITS5-B1	TI5-M64B1	RS5-M64B1	TI5-212B1	RS5-212B1	ITB14
	ITS5-M68B2	M68x6	-	-	ITS5-LC	ITS5-B2	TI5-M68B2	RS5-M68B2	-	-	ITB14
	ITS5-M72B2	M72x6	ITS5-234B2	2 3/4"-8 UN	ITS5-LC	ITS5-B2	TI5-M72B2	RS5-M72B2	TI5-234B2	RS5-234B2	ITB14
	ITS5-M76B2	M76x6	ITS5-300B2	3"- 8 UN	ITS5-LC	ITS5-B2	TI5-M76B2	RS5-M76B2	TI5-300B2	RS5-300B2	ITB14
ITS6	ITS6-M72B3	M72x6	ITS6-234B3	2 3/4"-8 UN	ITS6-LC	ITS6-B3	TI6-M72B3	RS6-M72B3	TI6-234B3	RS6-234B3	ITB14
	ITS6-M76B3	M76x6	ITS6-300B3	3"- 8 UN	ITS6-LC	ITS6-B3	TI6-M76B3	RS6-M76B3	TI6-300B3	RS6-300B3	ITB14
	ITS6-M80B3	M80x6	-	-	ITS6-LC	ITS6-B3	TI6-M80B3	RS6-M80B3	-	-	ITB14
	ITS6-M85B3	M85x6	ITS6-314B3	3 1/4"-8 UN	ITS6-LC	ITS6-B3	TI6-M85B3	RS6-M85B3	TI6-314B3	RS6-314B3	ITB14
	ITS6-M90B3	M90x6	ITS6-312B3	3 1/2"-8 UN	ITS6-LC	ITS6-B3	TI6-M90B3	RS6-M90B3	TI6-312B3	RS6-312B3	ITB14
ITS7	ITS7-M85B3	M85x6	ITS7-314B3	3 1/4"-8 UN	ITS7-LC	ITS7-B3	TI7-M85B3	RS7-M85B3	TI7-314B3	RS7-314B3	ITB14
	ITS7-M90B3	M90x6	ITS7-312B3	3 1/2"-8 UN	ITS7-LC	ITS7-B3	TI7-M90B3	RS7-M90B3	TI7-312B3	RS7-312B3	ITB14
	ITS7-M95B3	M95x6	ITS7-334B3	3 3/4"-8 UN	ITS7-LC	ITS7-B3	TI7-M95B3	RS7-M95B3	TI7-334B3	RS7-334B3	ITB14
	ITS7-M100B3	M100x6	ITS7-400B3	4"- 8 UN	ITS7-LC	ITS7-B3	TI7-M100B3	RS7-M100B3	TI7-400B3	RS7-400B3	ITB14

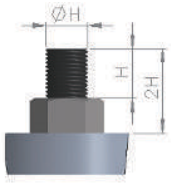
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Hydraulic Bolt Tensioner

ITSR Series - Spring Return bolt tensioners CE



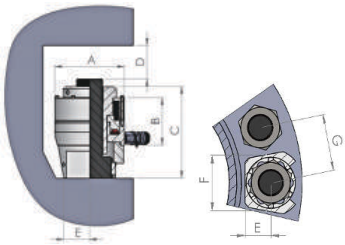
ITSR Series
- M27~M100 (11/8" to 4")
- 47.4ton ~ 319ton (465 kN ~ 3133 kN)
- Stroke 15mm
- 1500 bar (21750 psi)



※ ITSR tensioner requires a minimum stud protruding height corresponding to a bolt diameter (H) x1.

Features

- ITSR Spring Return Bolt Tensioner consists of 6 capacity load cells covering the M27 to M100 (1 1/8" to 4") specifications
- Multiple standards of stud bolts are available as conversion kits that can be easily replaced by tensioners of the same capacity.
- Maximum operating pressure is 1500 bar (21750 psi).
- Designed to comply with most ANSI B16.5, ANSI B16.47 flange specifications.
- Features a 15 mm long stroke with overstroke protection.
- All ITSR models have stroke indicators.
- All ITSR models are equipped with two quick couplers for fast connection between multiple tensioners.
- High-quality seal enables high durability, no leakage, and easy maintenance.

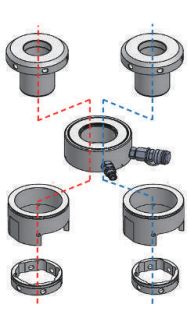


Specifications

Tool No.	METRIC TENSIONER UNIT		IMPERIAL TENSIONER UNIT		MAX PRESSURE	MAX CAPACITY		EFFECTIVE AREA	STROKE	WEIGHT	DIMENSIONS (mm)						
					(bar)	(kN)	(ton)	(cm²)	(mm)	(kg)	A	B	C	D	E	F	G
ITSR2	ITSR2-M27B3	M27x3	ITSR2-118B3	1 1/8"-8 UN	1500	465	47.4	31	15	4	ø102	100	164	140	39	83	69
	ITSR2-M30B3	M30x3.5	-	-	1500	465	47.4	31	15	4	ø102	100	164	137	39	83	71
	ITSR2-M33B3	M33x3.5	ITSR2-114B3	1 1/4"-8 UN	1500	465	47.4	31	15	4	ø102	100	164	135	39	83	73
	ITSR2-M36B3	M36x4	ITSR2-138B3	1 3/8"-8 UN	1500	465	47.4	31	15	4	ø102	100	164	132	39	83	76
	ITSR2-M39B3	M39x4	ITSR2-112B3	1 1/2"-8 UN	1500	465	47.4	31	15	4	ø102	100	164	130	39	83	79
ITSR3	ITSR3-M39B1	M39x4	ITSR3-112B1	1 1/2"-8 UN	1500	830	84.6	55.3	15	6.7	ø137	103	188	154	47	102	88
	ITSR3-M42B1	M42x4.5	ITSR3-158B1	1 5/8"-8 UN	1500	830	84.6	55.3	15	6.7	ø137	103	188	153	47	102	91
	ITSR3-M45B1	M45x4.5	ITSR3-134B1	1 3/4"-8 UN	1500	830	84.6	55.3	15	6.7	ø137	103	188	149	47	102	94
	ITSR3-M48B1	M48x5	ITSR3-178B1	1 7/8"-8 UN	1500	830	84.6	55.3	15	6.7	ø137	103	188	147	47	102	97
	ITSR3-M45B2	M45x4.5	ITSR3-134B2	1 3/4"-8 UN	1500	830	84.6	55.3	15	6.9	ø137	103	193	154	50	110	98
	ITSR3-M48B2	M48x5	ITSR3-178B2	1 7/8"-8 UN	1500	830	84.6	55.3	15	6.9	ø137	103	193	152	50	110	100
	ITSR3-M52B2	M52x5	ITSR3-200B2	2"- 8 UN	1500	830	84.6	55.3	15	6.9	ø137	103	193	148	50	110	104
ITSR4	ITSR4-M48B1	M48x5	ITSR4-178B1	1 7/8"-8 UN	1500	1266	129.1	84.4	15	11	ø167	110	197	155	50	112	104
	ITSR4-M52B1	M52x5	ITSR4-200B1	2"- 8 UN	1500	1266	129.1	84.4	15	11	ø167	110	197	151	50	112	105
	ITSR4-M52B2	M52x5	ITSR4-200B2	2"- 8 UN	1500	1266	129.1	84.4	15	12.2	ø167	110	213	167	62	135	117
	ITSR4-M56B2	M56x5.5	ITSR4-214B2	2 1/4"-8 UN	1500	1266	129.1	84.4	15	12.2	ø167	110	213	164	62	135	121
	ITSR4-M60B2	M60x5.5	-	-	1500	1266	129.1	84.4	15	12.2	ø167	110	213	161	62	135	122
	ITSR4-M64B2	M64x6	ITSR4-212B2	2 1/2"-8 UN	1500	1266	129.1	84.4	15	12.2	ø167	110	213	158	62	135	127
ITSR5	ITSR5-M56B1	M56x5.5	ITSR5-214B1	2 1/4"-8 UN	1500	1846	188	123.1	15	15	ø198	109	216	167	68	140	122
	ITSR5-M60B1	M60x5.5	-	-	1500	1846	188	123.1	15	15	ø198	109	216	164	68	140	125
	ITSR5-M64B1	M64x6	ITSR5-212B1	2 1/2"-8 UN	1500	1846	188	123.1	15	15	ø198	109	216	161	68	140	130
	ITSR5-M68B2	M68x6	-	-	1500	1846	188	123.1	15	16.5	ø198	109	229	171	73	152	136
	ITSR5-M72B2	M72x6	ITSR5-234B2	2 3/4"-8 UN	1500	1846	188	123.1	15	16.5	ø198	109	229	167	73	152	140
	ITSR5-M76B2	M76x6	ITSR5-300B2	3"- 8 UN	1500	1846	188	123.1	15	16.5	ø198	109	229	164	73	152	147
ITSR6	ITSR6-M72B3	M72x6	ITSR6-234B3	2 3/4"-8 UN	1500	2638	269	176.1	15	24	ø238	111	255	192	84	180	155
	ITSR6-M76B3	M76x6	ITSR6-300B3	3"- 8 UN	1500	2638	269	176.1	15	24	ø238	111	255	189	84	180	160
	ITSR6-M80B3	M80x6	-	-	1500	2638	269	176.1	15	24	ø238	111	255	186	84	180	158
	ITSR6-M85B3	M85x6	ITSR6-314B3	3 1/4"-8 UN	1500	2638	269	176.1	15	24	ø238	111	255	182	84	180	166
	ITSR6-M90B3	M90x6	ITSR6-312B3	3 1/2"-8 UN	1500	2638	269	176.1	15	24	ø238	111	255	178	84	180	171
ITSR7	ITSR7-M85B3	M85x6	ITSR7-314B3	3 1/4"-8 UN	1500	3133	319	208.9	15	45	ø257	122	315	242	90	211	177
	ITSR7-M90B3	M90x6	ITSR7-312B3	3 1/2"-8 UN	1500	3133	319	208.9	15	45	ø257	122	315	238	90	211	187
	ITSR7-M95B3	M95x6	ITSR7-334B3	3 3/4"-8 UN	1500	3133	319	208.9	15	45	ø257	122	315	234	90	211	192
	ITSR7-M100B3	M100x6	ITSR7-400B3	4"- 8 UN	1500	3133	319	208.9	15	45	ø257	122	315	230	90	211	198

※ The above options are subject to change without prior notice









- Conversion Kits offer a very economical way to expand your inventory of bolt tensioning tools. Kits are available to convert a TECPOS ITSR TENSIONER to suit an alternative bolt size within its size range.

Kits consist of three items:

BRIDGE, PULLER, NUT ROTATING SOCKET

1. Change from ITSR3–M42B1 to ITSR3–112B1 requires conversion kits (C,D) TIR3–112B1 and RS3–112B1.
2. Conversion kits (C,D) TIR3–M52B2, RS3–M52B2, Bridge (B) ITS3–B2 must be changed from ITS3–M42B1 to ITS3–M52B2.

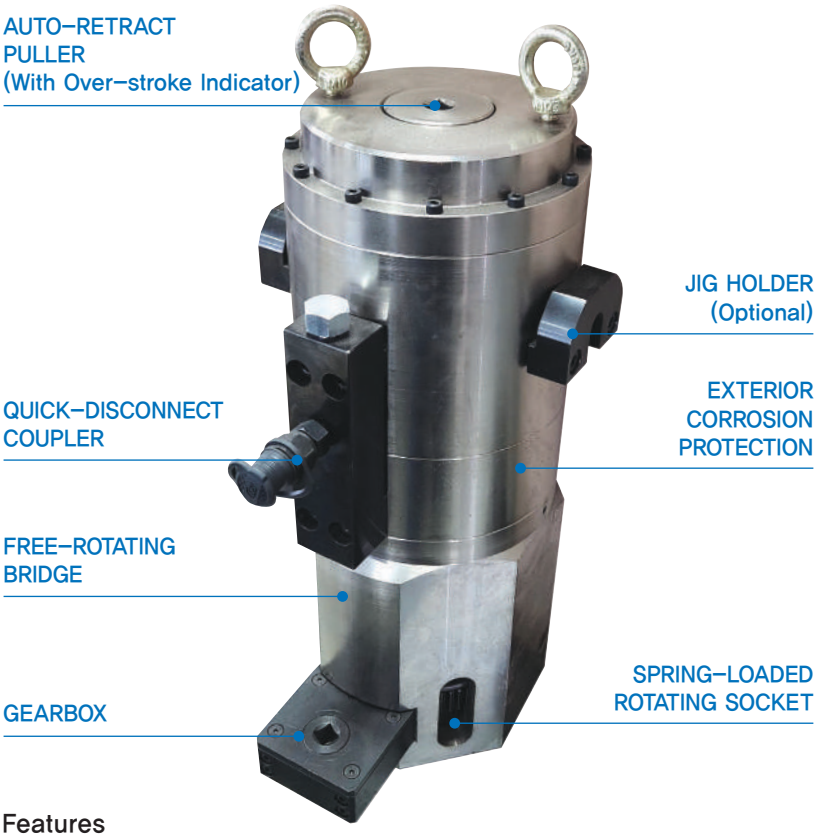
- Smaller bridges (B1) are compatible within the same capacity tensioner.
- Larger bridges (B2) are compatible within the same capacity tensioner.
- Single bridge (B3) is compatible within the same capacity tensioner.

NOTE : You can order a complete tensioner for the stud size using the table below, or you can order load cells and conversion kits as needed.

Tool No.	METRIC TENSIONER UNIT		IMPERIAL TENSIONER UNIT		LOAD CELL	BRIDGE	METRIC CONVERSION KITS		IMPERIAL CONVERSION KITS		TOMMY BAR
							PULLER	SOCKET	PULLER	SOCKET	
					A	B	C	D	C	D	E
ITSR2	ITSR2-M27B3	M27x3	ITSR2-118B3	1 1/8"-8 UN	ITSR2-LC	ITS2-B3	TIR2-M27B3	RS2-M27B3	TIR2-118B3	RS2-118B3	ITB08
	ITSR2-M30B3	M30x3.5	-	-			TIR2-M30B3	RS2-M30B3	-	-	
	ITSR2-M33B3	M33x3.5	ITSR2-114B3	1 1/4"-8 UN			TIR2-M33B3	RS2-M33B3	TIR2-114B3	RS2-114B3	
	ITSR2-M36B3	M36x4	ITSR2-138B3	1 3/8"-8 UN			TIR2-M36B3	RS2-M36B3	TIR2-138B3	RS2-138B3	
	ITSR2-M39B3	M39x4	ITSR2-112B3	1 1/2"-8 UN			TIR2-M39B3	RS2-M39B3	TIR2-112B3	RS2-112B3	
ITSR3	ITSR3-M39B1	M39x4	ITSR3-112B1	1 1/2"-8 UN	ITSR3-LC	ITS3-B1	TIR3-M39B1	RS3-M39B1	TIR3-112B1	RS3-112B1	ITB10
	ITSR3-M42B1	M42x4.5	ITSR3-158B1	1 5/8"-8 UN			TIR3-M42B1	RS3-M42B1	TIR3-158B1	RS3-158B1	
	ITSR3-M45B1	M45x4.5	ITSR3-134B1	1 3/4"-8 UN			TIR3-M45B1	RS3-M45B1	TIR3-134B1	RS3-134B1	
	ITSR3-M48B1	M48x5	ITSR3-178B1	1 7/8"-8 UN			TIR3-M48B1	RS3-M48B1	TIR3-178B1	RS3-178B1	
	ITSR3-M45B2	M45x4.5	ITSR3-134B2	1 3/4"-8 UN		ITS3-B2	TIR3-M45B2	RS3-M45B2	TIR3-134B2	RS3-134B2	
	ITSR3-M48B2	M48x5	ITSR3-178B2	1 7/8"-8 UN			TIR3-M48B2	RS3-M48B2	TIR3-178B2	RS3-178B2	
	ITSR3-M52B2	M52x5	ITSR3-200B2	2"- 8 UN			TIR3-M52B2	RS3-M52B2	TIR3-200B2	RS3-200B2	
ITSR4	ITSR4-M48B1	M48x5	ITSR4-178B1	1 7/8"-8 UN	ITSR4-LC	ITS4-B1	TIR4-M48B1	RS4-M48B1	TIR4-178B1	RS4-178B1	ITB10
	ITSR4-M52B1	M52x5	ITSR4-200B1	2"- 8 UN			TIR4-M52B1	RS4-M52B1	TIR4-200B1	RS4-200B1	
	ITSR4-M52B2	M52x5	ITSR4-200B2	2"- 8 UN		ITS4-B2	TIR4-M52B2	RS4-M52B2	TIR4-200B2	RS4-200B2	
	ITSR4-M56B2	M56x5.5	ITSR4-214B2	2 1/4"-8 UN			TIR4-M56B2	RS4-M56B2	TIR4-214B2	RS4-214B2	
	ITSR4-M60B2	M60x5.5	-	-			TIR4-M60B2	RS4-M60B2	-	-	
	ITSR4-M64B2	M64x6	ITSR4-212B2	2 1/2"-8 UN			TIR4-M64B2	RS4-M64B2	TIR4-212B2	RS4-212B2	
ITSR5	ITSR5-M56B1	M56x5.5	ITSR5-214B1	2 1/4"-8 UN	ITSR5-LC	ITS5-B1	TIR5-M56B1	RS5-M56B1	TIR5-214B1	RS5-214B1	ITB14
	ITSR5-M60B1	M60x5.5	-	-			TIR5-M60B1	RS5-M60B1	-	-	
	ITSR5-M64B1	M64x6	ITSR5-212B1	2 1/2"-8 UN			TIR5-M64B1	RS5-M64B1	TIR5-212B1	RS5-212B1	
	ITSR5-M68B2	M68x6	-	-		ITS5-B2	TIR5-M68B2	RS5-M68B2	-	-	
	ITSR5-M72B2	M72x6	ITSR5-234B2	2 3/4"-8 UN			TIR5-M72B2	RS5-M72B2	TIR5-234B2	RS5-234B2	
	ITSR5-M76B2	M76x6	ITSR5-300B2	3"- 8 UN			TIR5-M76B2	RS5-M76B2	TIR5-300B2	RS5-300B2	
ITSR6	ITSR6-M72B3	M72x6	ITSR6-234B3	2 3/4"-8 UN	ITSR6-LC	ITS6-B3	TIR6-M72B3	RS6-M72B3	TIR6-234B3	RS6-234B3	ITB14
	ITSR6-M76B3	M76x6	ITSR6-300B3	3"- 8 UN			TIR6-M76B3	RS6-M76B3	TIR6-300B3	RS6-300B3	
	ITSR6-M80B3	M80x6	-	-			TIR6-M80B3	RS6-M80B3	-	-	
	ITSR6-M85B3	M85x6	ITSR6-314B3	3 1/4"-8 UN			TIR6-M85B3	RS6-M85B3	TIR6-314B3	RS6-314B3	
	ITSR6-M90B3	M90x6	ITSR6-312B3	3 1/2"-8 UN			TIR6-M90B3	RS6-M90B3	TIR6-312B3	RS6-312B3	
ITSR7	ITSR7-M85B3	M85x6	ITSR7-314B3	3 1/4"-8 UN	ITSR7-LC	ITS7-B3	TIR7-M85B3	RS7-M85B3	TIR7-314B3	RS7-314B3	ITB14
	ITSR7-M90B3	M90x6	ITSR7-312B3	3 1/2"-8 UN			TIR7-M90B3	RS7-M90B3	TIR7-312B3	RS7-312B3	
	ITSR7-M95B3	M95x6	ITSR7-334B3	3 3/4"-8 UN			TIR7-M95B3	RS7-M95B3	TIR7-334B3	RS7-334B3	
	ITSR7-M100B3	M100x6	ITSR7-400B3	4"- 8 UN			TIR7-M100B3	RS7-M100B3	TIR7-400B3	RS7-400B3	

Hydraulic Bolt Tensioner

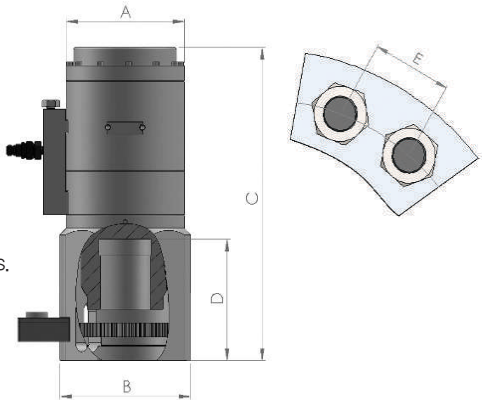
ITSD Series - Multistage bolt tensioner CE



ITSD Series
- M24-M72 (1" to 2 3/4")
- 30.2ton - 309.3ton (296.8 kN - 3032 kN)
- Strokes 7~10mm
- 1350 bar (19580 psi)

※ Using a multi-stage hydraulic tensioner enables smooth installation and removal of bolts and studs without applying torsional loads, while allowing for precise adjustment of preload pressure.

※ TECPOS tensioners come in various standard manufacturing sizes listed below. These standard sizes, along with custom tensioners, can be easily adjusted to fit specific joints or flanges perfectly. TECPOS tensioners are available in both single-stage and multi-stage configurations.



Features

- The ITSD multi-stage bolt tensioner includes 15 capacity load cells that cover M24 to M72(1" to 2 3/4") specifications.
- The puller automatically returns to its original position after pressure release.
- The maximum operating pressure is 1,350 bar (19,600psi).
- All ITSD models are equipped with spring-loaded automatic coupling gear-driven nut rotating sockets.
- It has a 10mm stroke (except for M24 to M33) with mechanical overstroke protection.
- All ITSD models have stroke indicators.
- All ITSD models come with quick disconnect couplers.
- High-quality seal enables high durability, no leakage, and easy maintenance.

Specifications

Tool No.	METRIC UNIT	THREAD SIZE		IMPERIAL UNIT	MAX PRESSURE	MAX CAPACITY		EFECTIVE AREA	STROKE	WEIGHT	NUT SIZE A/F	DIMENSIONS (mm)				
		(mm)	(Inch)		(bar)	(kN)	(ton)	(cm²)	(mm)	(kg)	(mm)	A	B	C	D	E
ITSD	ITSD-M24	M24x3	1"-8 UN	ITSD-100	1350	296.8	30.2	21.9	7	5	36	ø61	ø69	185	60	55
	ITSD-M27	M27x3	1 1/8"-8 UN	ITSD-118	1350	395.5	40.3	29.3	7	5.5	41	ø66	ø74	199	68	60
	ITSD-M30	M30x3.5	-	-	1350	463.8	47.3	34.3	8	6	46	ø72	ø82	209	70	67
	ITSD-M33	M33x3.5	1 1/4"-8 UN	ITSD-114	1350	571.4	58.3	42.3	8	7	50	ø78	ø88	221	77	72
	ITSD-M36	M36x4	1 3/8"-8 UN	ITSD-138	1350	671.2	68.4	49.7	10	9	55	ø83	ø93	243	85	78
	ITSD-M39	M39x4	1 1/2"-8 UN	ITSD-112	1350	805.1	82.1	59.6	10	12.5	60	ø92	ø100	263	92	87
	ITSD-M42	M42x4.5	1 5/8"-8 UN	ITSD-158	1350	920.9	93.9	68.2	10	13.5	65	ø98	ø107	266	90	92
	ITSD-M45	M45x4.5	1 3/4"-8 UN	ITSD-134	1350	1131	115.4	83.8	10	17	70	ø105	ø115	292	107	98
	ITSD-M48	M48x5	1 7/8"-8 UN	ITSD-178	1350	1245	127	92.2	10	20	75	ø111	ø121	304	113	104
	ITSD-M52	M52x5	2"- 8 UN	ITSD-200	1350	1436	146.6	106.4	10	26	80	ø122	ø131	329	125	112
	ITSD-M56	M56x5.5	2 1/4"-8 UN	ITSD-214	1350	1664	169.8	123.3	10	30	85	ø128	ø140	349	132	120
	ITSD-M60	M60x5.5	-	-	1350	2009	205	148.8	10	36	90	ø137	ø149	363	142	126
	ITSD-M64	M64x6	2 1/2"-8 UN	ITSD-212	1350	2298	234.5	170.2	10	43	95	ø148	ø164	379	152	132
	ITSD-M68	M68x6	-	-	1350	2603	265.6	192.8	10	52	100	ø158	ø178	397	160	140
	ITSD-M72	M72x6	2 3/4"-8 UN	ITSD-234	1350	3032	309.3	224.6	10	65	105	ø170	ø188	440	171	152

※ The above options are subject to change without prior notice

Hydraulic Nut Splitters

TNS Series - Nut splitter



TNS Series

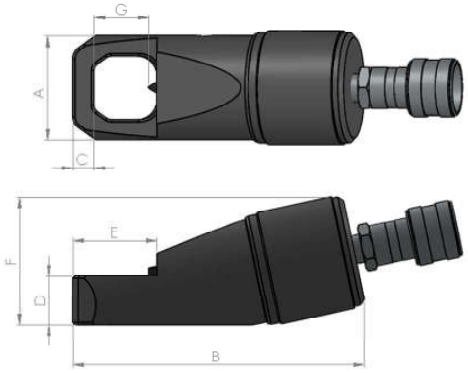
- Bolt Range M6-M48
- Hex Nut Range 10-75mm
- 5ton - 90ton
- 700 bar / 10,000psi

Caution!

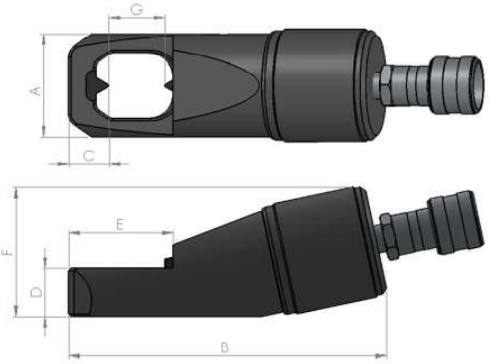
Designed for use with grade 8 or lower nuts, it's not suitable for stainless steel, square, or star shaped nuts. The maximum allowable hardness for nuts used with the TNS is HRC 44, and it cannot be used with nuts exceeding this.

Features

- Designed for use with hex nuts ranging from 10-75mm (maximum hardness HRC 44) and M6-M48.
- Easy-to-use head design suitable for various industrial applications.
- Single-acting hydraulic cylinder with Spring Return.
- Double blade type (TNS-D) that separates both sides of the nut in one operation, reducing work time.
- Unique angled head design.
- Operates with an oil pressure pump of 700 Bar / 10,000 psi.
- Includes spare blades, spare screws, and wrench.
- Blades can be easily replaced.



Single Blade Models(TNS)



Double Blade Models (TNS-D)

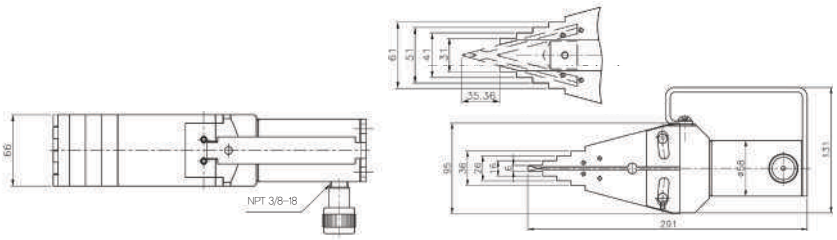
Specifications

Tool No.	Model Number	Bolt Range	Hexagon Nut Range	Maximum Cutting Force	Oil Capacity	DIMENSIONS (mm)							Tool Weight
			(mm)	(ton)	(cm^3)	A	B	C	D	E	F	G	(kg)
Single Blade	TNS-1019	M6-M12	10-19	5	11	40	120	7	19	29	49	21	1.2
	TNS-1924	M12-M16	19-24	10	25	54	146	10	25	40	63	25	2
	TNS-2432	M16-M22	24-32	15	45	64	180	13	30	52	76	33	3
	TNS-3241	M22-M27	32-41	20	65	75	205	16	36	65	88	42	4.4
	TNS-4150	M27-M33	41-50	35	130	94	245	21	45	76	107	53	8.2
	TNS-5060	M33-M39	50-60	50	200	106	288	24	54	92	128	62	11.8
	TNS-6075	M39-M48	60-75	90	510	156	365	27	75	110	185	80	34.1
Double Blade	TNS-1019D	M6-M12	10-19	5	15	40	138	18	19	41	53	21	1.5
	TNS-1924D	M12-M16	19-24	10	30	54	168	22	25	50	66	26	3.8
	TNS-2432D	M16-M22	24-32	15	55	64	198	25	30	65	80	34	5.4
	TNS-3241D	M22-M27	32-41	20	80	77	231	31	36	80	92	43	7.2
	TNS-4150D	M27-M33	41-50	35	155	94	271	39	45	93	111	52	13.8
	TNS-5060D	M33-M39	50-60	50	240	106	315	43	54	107	131	62	18.6
	TNS-6075D	M39-M48	60-75	90	600	156	411	54	75	133	189	77	42.9

※ The above options are subject to change without prior notice

Hydraulic Flange Spreaders

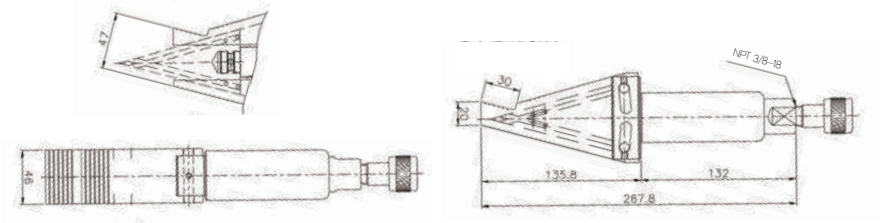




■ Specifications

Model	TFS 661	Max. Spread(mm)	61	Maximum Pressure(bar)	700	Weight(kg)	7.1
Output Force(ton)	14	Tip Clearance(mm)	6	Hydraulic Coupler	TBC 382F(NPT3/8)	Pump	1B, 08 or 1/2HP

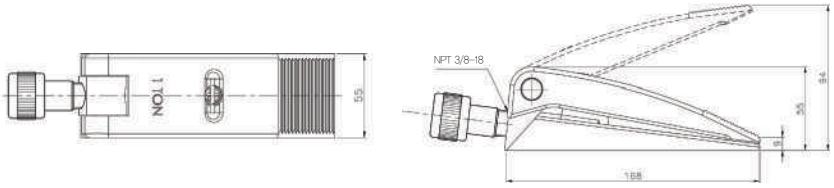




■ Specifications

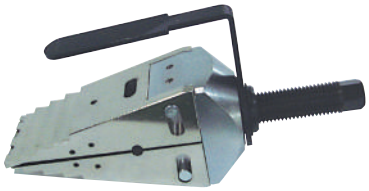
Model	TFS 555	Max. Spread(mm)	47	Maximum Pressure(bar)	700	Weight(kg)	3.4
Output Force(ton)	5	Tip Clearance(mm)	20	Hydraulic Coupler	TBC 382F(NPT3/8)	Pump	1B, 08 or 1/2HP

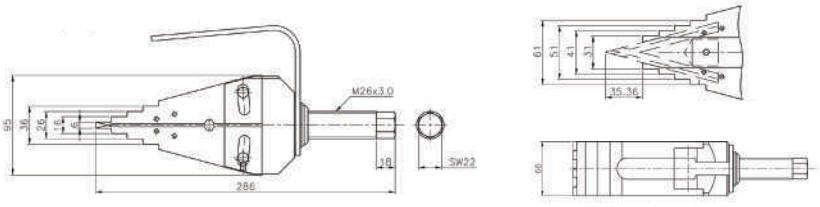




■ Specifications

Model	TFS 949	Max. Spread(mm)	94	Maximum Pressure(bar)	700	Weight(kg)	2.0
Output Force(ton)	1	Tip Clearance(mm)	9	Hydraulic Coupler	TBC 382F(NPT3/8)	Pump	1B, 08 or 1/2HP





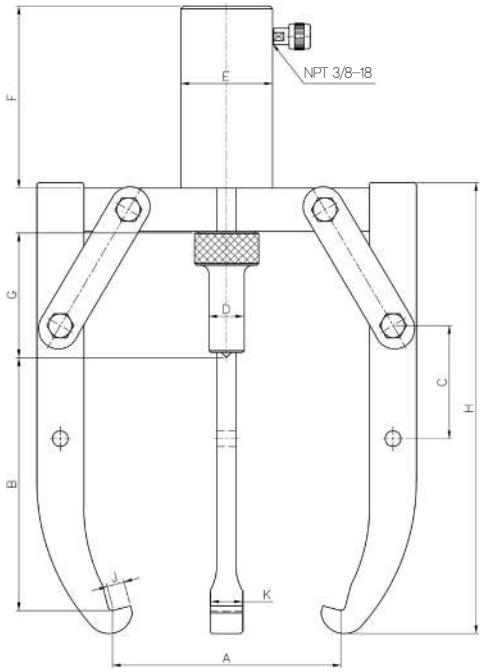
■ Specifications

Model	TFSM 661	Max. Spread	61	Weight(kg)	5.6
Output Force(ton)	8	Tip Clearance(mm)	6	Work type	Hand operated

※ The above options are subject to change without prior notice

Hydraulic Pullers





- Capacity : 10~50ton
- Stroke : 150mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- Hydraulic pullers used when removing bearing, gear or pully from shafts

■ **Specifications**

Model	Cylinder Capacity (ton)	Stroke (mm)	Oil Capacity (cc)	Max. Spread (mm)	Max. Reach (mm)	Distance Between Hole (mm)	Puller Center Dia.	Cylinder Out Dia.	Retracted Height	Puller Center Length	Puller Leg Length	Tip Depth	Jaw Width	Weight (kg)	Pump
				A	B	C	D	E	F	G	H	J	K		
TPUL-10	10	150	228	180	240	75	22	62	180	135	379.5	16	26	13.5	1B or 08
TPUL-20	20	150	498	280	400	130	35	88	205	138	480	21	31	30.5	
TPUL-30	30	150	660	280	420	130	40	104	210	145	520	25	37	45.4	1C or 17
TPUL-50	50	150	1070	360	520	150	60	128	220	180	653	27	45	84	

※ The above options are subject to change without prior notice

Oil - L - Jacks

TLJ-52.5



TLJ-105

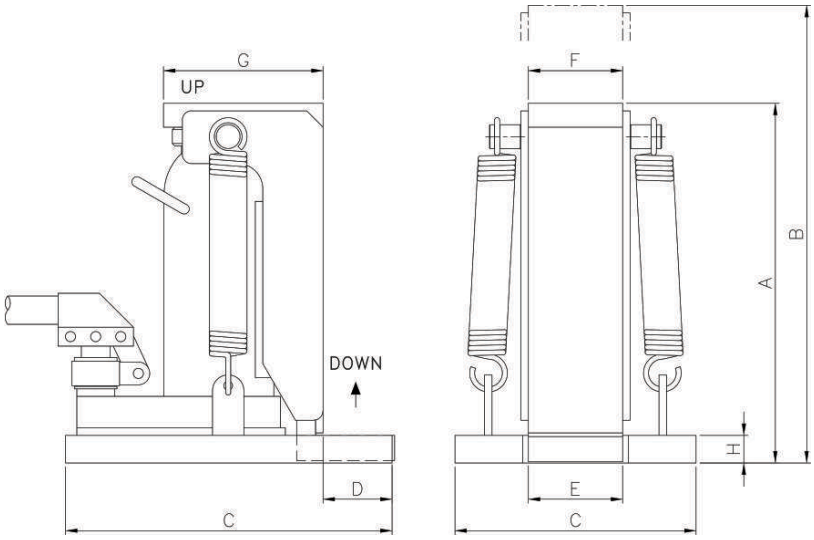


TLJ-2010



TLJ-3015





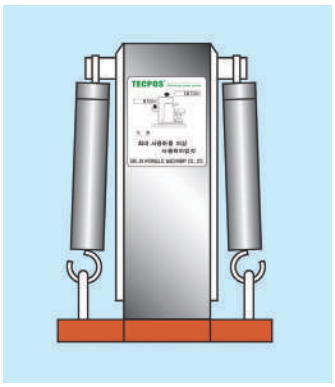
- Capacity : 2.5~15ton(Down), 5~30ton(Up)
- Stroke : 120~160mm
- Maximum Pressure : 140bar
- For use in very confined work areas

■ Model Number Identification

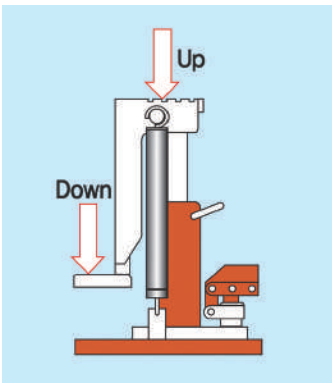
TLJ-52.5

- Down Capacity
- Up Capacity
- L - Jack
- TECPOS

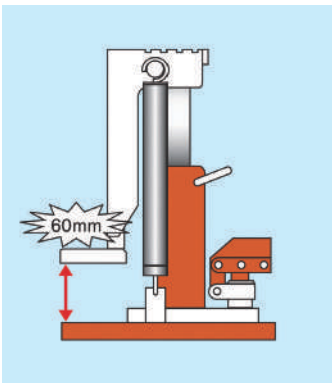
■ How to use Oil-L-JACKS



Never exceed the maximum capacity.



When lifting an object, support the top in the center and press to the inside edge of the bottom plate.



Keep the stroke less than 60mm when lifting an object from the bottom.



Keep the Jack even at all times on level ground.

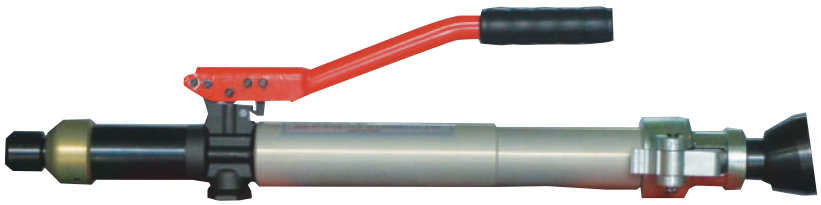
■ Specifications

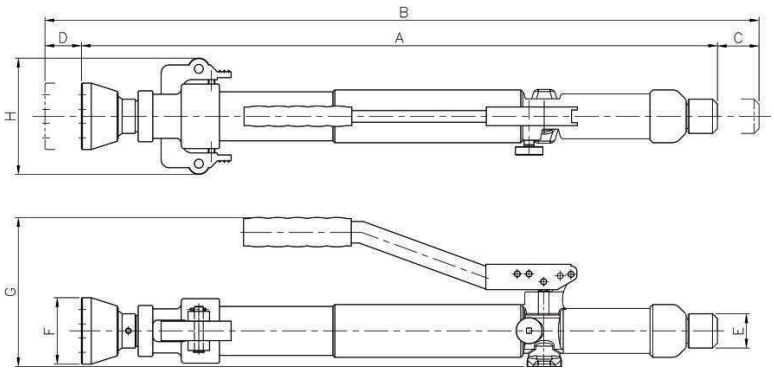
Model	Cylinder Capacity(ton)		Stroke (mm)	Retracted Height	Extended Height	Base Dimension					Base Thickness	Weight (kg)
	UP	Down		A	B	C	D	E	F	G	H	
TLJ-52.5	5	2.5	120	237	357	173×226	45	65	65	105	19	11.6
TLJ-105	10	5	150	286	436	192×260	57	75	75	127	22	18.9
TLJ-2010	20	10	160	327	487	246×288	69	100	100	148	28	34.3
TLJ-3015	30	15	160	352	512	273×306	60	120	122	165	32	51.1

※ The above options are subject to change without prior notice

Hydraulic Tools

• Welding Jack Pump

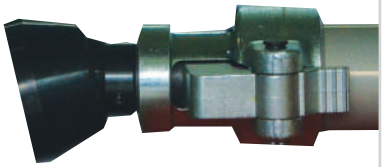




Head Type



Saddle Type



- Capacity : 5~10ton
- Stroke : 90~200mm
- Maximum Pressure : 700bar
- Cylinders are load return “C” and Spring Return





■ Specifications

Model	Output Force (ton)	Retracted Height (mm)	Extended Height (mm)	Output Piston Stroke (mm)	Output Saddle Stroke (mm)	Head Dia. (mm)	Saddle Dia.(mm)	Welding Jack Height (mm)	Welding Jack Width (mm)	Weight (kg)
		A	B	C	D	E	F	G	H	
TWJ 5B -580	4.8	580	675	95	128	35	68	153	68	5.4
TWJ 5B-650	4.8	650	873	95	128	35	68	153	119	6.7
TWJ 5B-750	4.8	750	1069	95	224	35	68	153	119	7.6
TWJ 10C-680	8.7	680	877	85	112	35	68	147	124	12

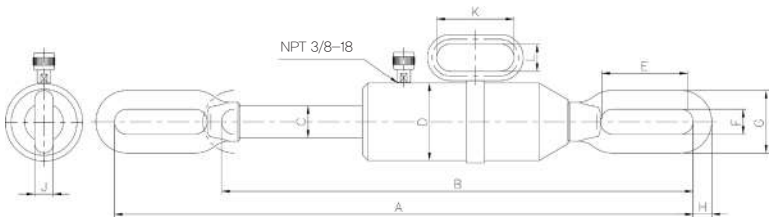
※ The above options are subject to change without prior notice

Hydraulic Tools

• *Aluminum Pulling Jack*



- Capacity : 10~100ton
- Stroke : 150~200mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- They are equipped with eyebolts and sping-return
- Aluminum pulling jacks are almost half the weight of steel pulling jacks
- This Jack is suitable for shipyards, large construction sites, such as welding jobs



■ Model Number Identification

TAPJ-10150

- Stroke, 150mm
- Capacity, 10ton
- Aluminum Pulling Jack
- TECPOS

■ **Specifications**

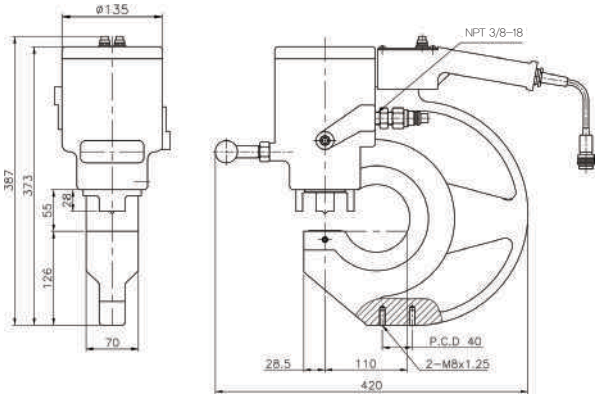
Model	Cylinder Capacity (ton)	Stroke (mm)	Oil Capacity (cc)	Dimension											Weight (kg)	Pump
				A	B	C	D	E	F	G	H	J	K	L		
TAPJ-10150	10	150	236	763	613	40	88	115	30	67	32	30	71	29	10.3	1B, 08 1/2HP
TAPJ-20150	20	150	424	809	659	45	108	130	35	87	26	26	71	29	13.9	
TAPJ-30150	30	150	660	875	725	50	125	145	44	108	32	32	100	30	19	
TAPJ-30200	30	200	880	975	775	50	125	145	44	108	32	32	100	30	23	1C, 17 1/2HP
TAPJ-50150	50	150	1082	897	747	54	158	150	50	130	60	40	108	38	34	
TAPJ-50200	50	200	1443	997	797	54	159	150	50	130	60	40	108	38	36	25
TAPJ-100150	100	150	2076	1101.5	951.5	80	238	200	51	169	82	60	108	38	95	1/2HP

※ The above options are subject to change without prior notice

Hydraulic Punches

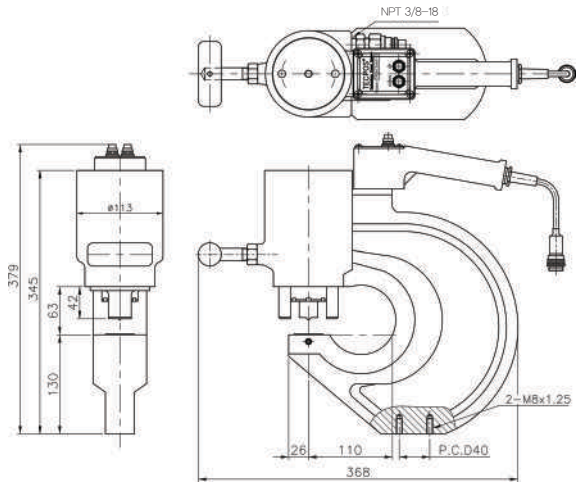
TPUN-2420 (Double Acting Type)





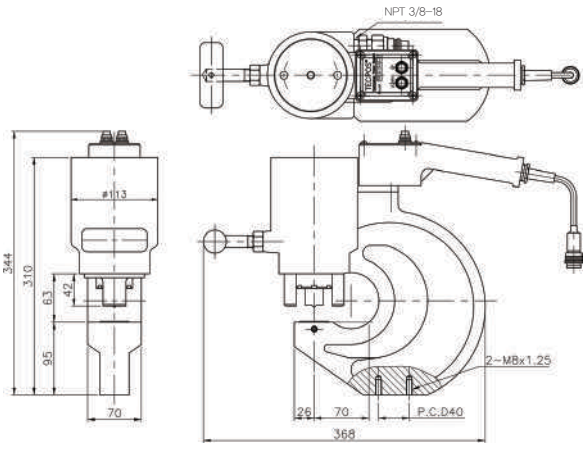
TPUN-2416-11



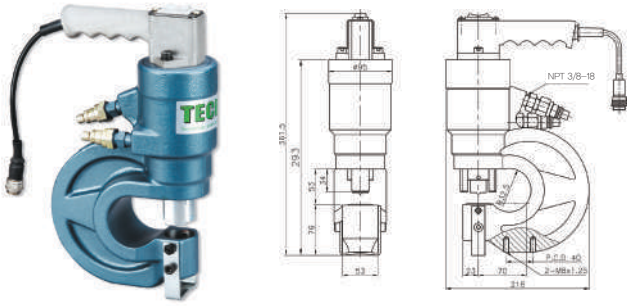


TPUN-2416-07

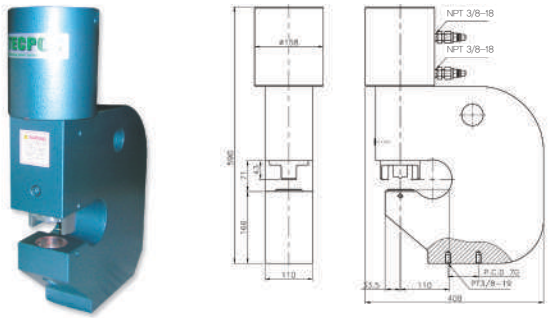


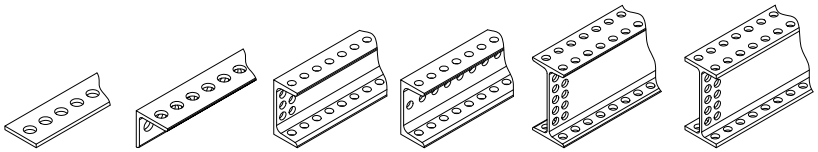


TPUN-2012 (Double Acting Type)



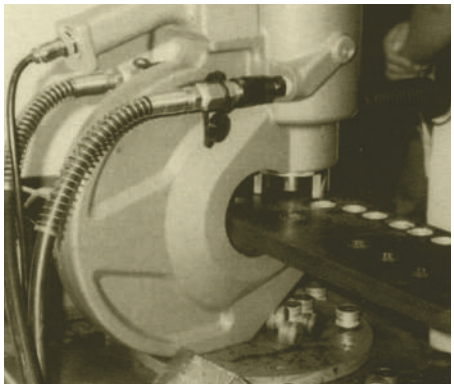
TPUN-3222 (Double Acting Type)



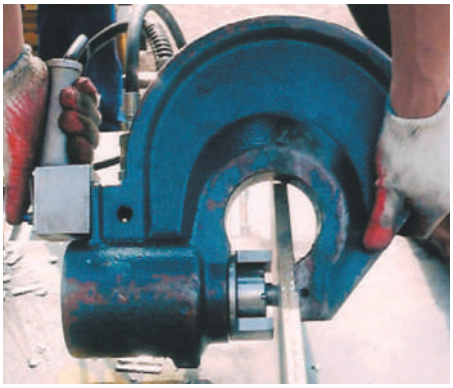


Flat Angle Channel I-steel H-steel

- Capacity : 32, 47, 60, 85ton
- Maximum Punching Diameter : Ø32
- Maximum Pressure : 700bar
- Punching through I-Beams, H-Beams, Mild steel, etc : ss400
- Hydraulic Coupler : TBC 384M(NPT3/8)/ DN38M







■ Specifications

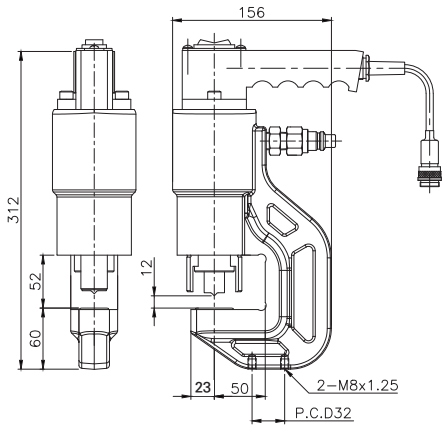
Model	Max. Punching Diameter (ø)	Max. Punching Thickness (mm)	Max. Center Depth (mm)	Cylinder Capacity (ton)	Weight (kg)	Time for 1 Hole		Pump	Standard Punch & Die
TPUN-2012S	20.5	12	70	32	13	1HP	6sec	1HP Single	ø10, ø12 ø14, ø16
TPUN-2012								1HP Double	
TPUN-2416-07	24	16	70	47	21	2HP	5sec	2HP Double	ø18, ø20 ø22, ø24
TPUN-2416-11			110		28				
TPUN-2420	24	20	110	60	34	3HP	6sec	2HP, 3HP	ø18, ø20, ø22, ø24
TPUN-3222	32	22		85	132			3HP~5HP	ø26, ø28, ø30, ø32

※ The above options are subject to change without prior notice

Hydraulic Punches

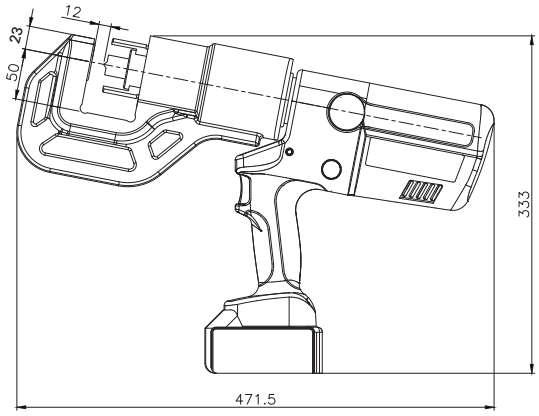
TPUN-2010





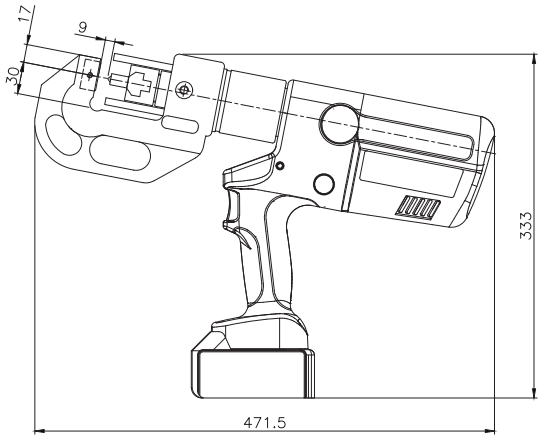
TBPC-2010





TPUN-1705



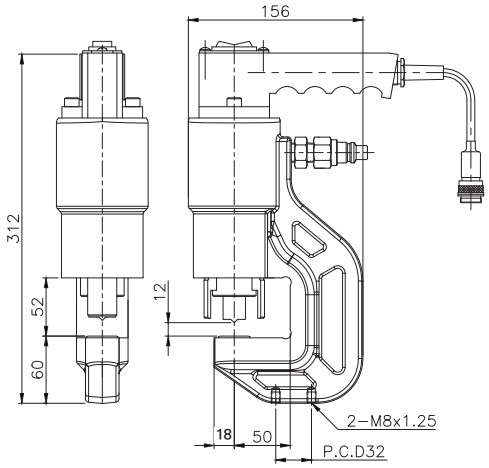


■ **Specifications**

Model	Max. Punching Diameter (ø)	Max. Punching Thickness (mm)	Max. Center Depth (mm)	Cylinder Capacity (ton)	Weight (kg)	Pump	Standard Punch & Die
TPUN-2010	20.5	10	50	24	8.5	1HP Single	ø10.5, ø13.5, ø17.5, ø20.5
TBPC-2010	20.5	10	50	24	10.8	Battery Li-ion 18V	ø10.5, ø13.5, ø17.5, ø20.5
TPUN-1705	17.5	5	30	13	7.1	Battery Li-ion 18V	ø10.5, ø13.5, ø17.5

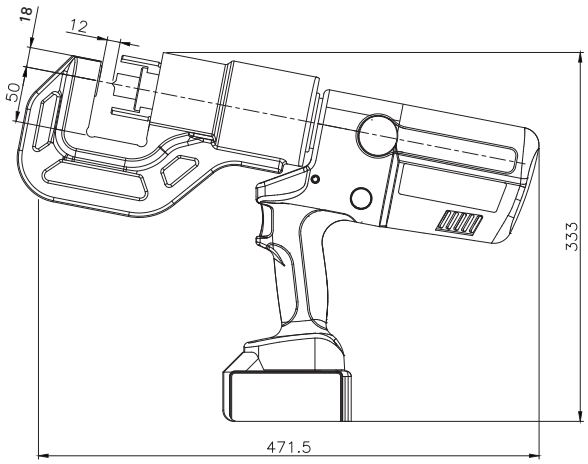
TPUN-1710C Channel Type

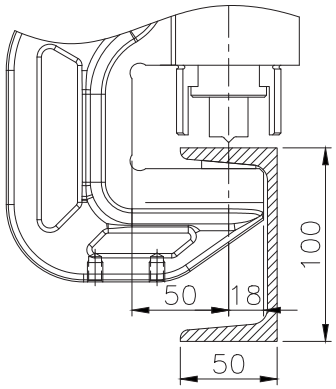


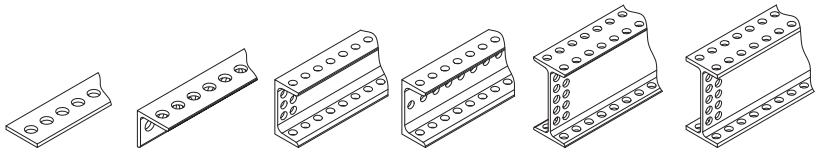


TBPC-1710C Channel Type









■ Specifications

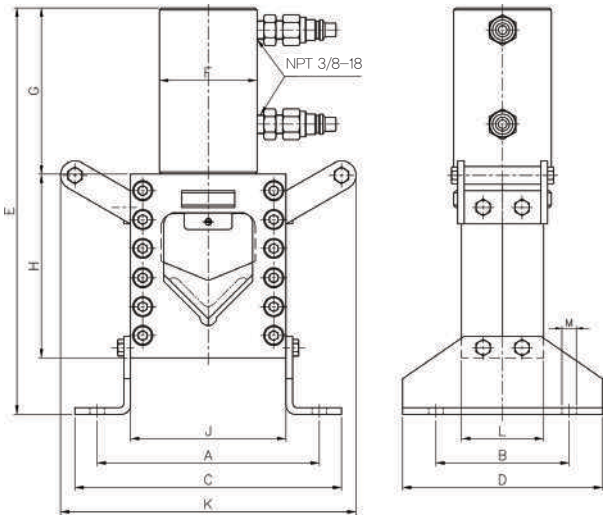
Model	Max. Punching Diameter (ø)	Max. Punching Thickness (mm)	Max. Center Depth (mm)	Cylinder Capacity (ton)	Weight (kg)	Pump	Standard Punch & Die
TPUN-1710C	17.5	10	50	24	8.5	1HP Single Sol	Channel Type, ø10.5, ø13.5, ø17.5
TBPC-1710C	17.5	10	50	24	10.8	Battery Li-ion 18V	Channel Type, ø10.5, ø13.5, ø17.5

Hydraulic Tools

• *Angle Cutters*



- Capacity : 20~50ton
- Stroke : 45~70mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC384M(NPT3/8) or DN38M
- Angle cutters available with hand or electric pumps





■ Specifications

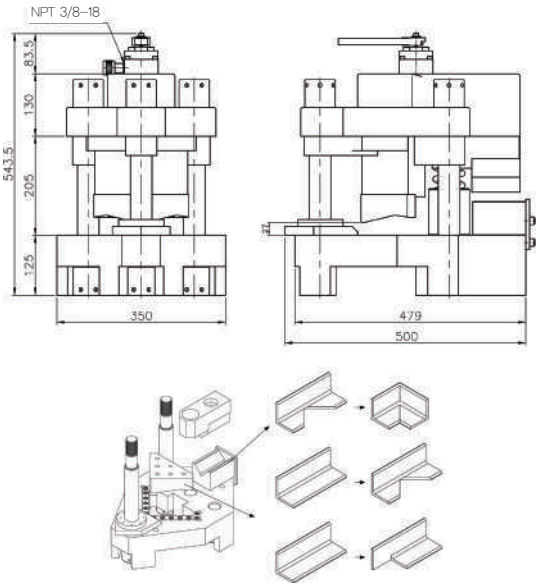
Model	Cylinder Capacity (ton)	Stroke (mm)	Oil Capacity (cc)	Max. angle	Pump	Dimension(mm)												Weight (kg)
						A	B	C	D	E	F	G	H	J	K	L	M	
TAC-50	20	45	150	50x50x6T	1/2HP Double	200	120	240	180	366	88	150	165	140	266	74	ø13	18
TAC-75	30	65	288	75x75x10T		260	140	300	200	481	105	210	220	200	300	86	ø13	37
TAC-100	50	70	497	100x100x13T	1HP Double	360	220	420	300	596	128	215	300	260	374	116	ø13	78
TAC-150	70	90	965	150x150x15T		450	300	500	400	735	155	245	385	350	470	146	ø16	145

※ The above options are subject to change without prior notice

Hydraulic Tools

• Notching Machine





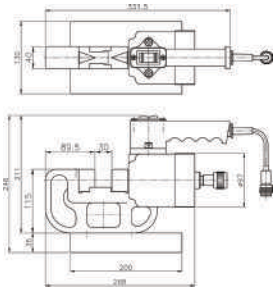
• Maximum Pressure : 700bar
• Hydraulic Coupler : TBC 384M or DN38M

■ Specifications

Model	Max Cutting Thickness(mm)	Max Angle	Cutting Capacity (ton)	Bending Capacity(ton)	Suitable Pump	Weight (kg)
TNC-100	10	100×100×10T	44.5	30	2HP Single Sol	187

• Rod Cutter

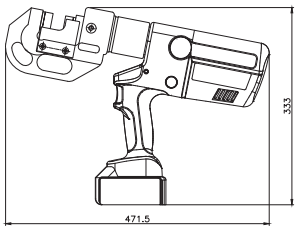




• Capacity : 30ton
• Stroke : 30mm
• Maximum Pressure : 700bar
• Hydraulic Coupler : TBC 382F(NPT3/8), TBC 384F or DN38M
• Round Bar cutters available with hand or electric pumps

• Battery Cutter





TRC20-N





• Capacity : 13ton
• Stroke : 20mm
• Size : 427×323×80mm
• Material : Steel wire /steel bar, Reinforcing rod, Al/Cu Bar
• Voltage(V) : Battery Li-ion 18V

■ Specifications

Model	Output Force(ton)	Round bar	Stroke(mm)	Max Cutting Dia(ø)	Suitable Pump	Weight (kg)
TRC 25	30	SS400	30	25	1/2HP Single Sol	9
TBRC 20	13	SS400	20	21	Battery Li-ion 18V	7.5
TRC 20-N	13	SS400	20	21	1/2HP Single Sol	5.6

Hydraulic Hand Pumps

ESP-05



ESP-08



ESP-17



ESP-25



ESP-50



- Reservoir Capacity : 500~5500cc
- Volume Per Stroke : High Pressure : 2.47~2.94cc/stroke
  Low Pressure : 20.9~41.0cc/stroke
- Maximum Pressure 2800bar
- To order double acting hand pump add the letter "D"to the model No. ex) ESP-08-D



ESP-05, 08



ESP-17, 25, 50

Pressure gauge (option)



ESP-05, 08



ESP-17, 25, 50

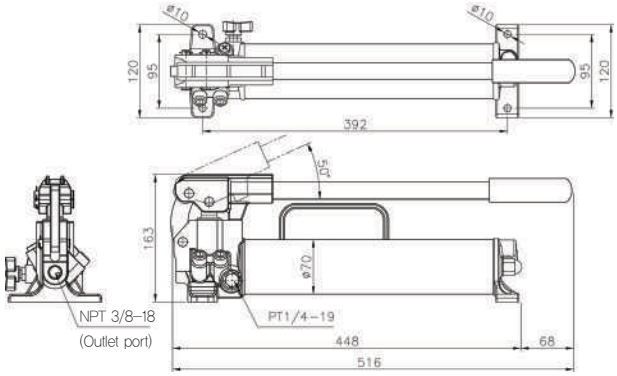
Manual valve (option)

■ Specifications

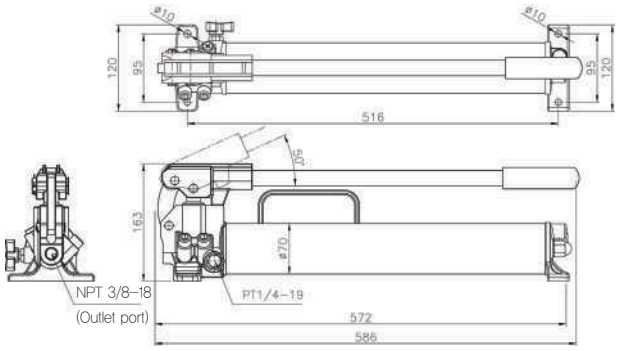
Model	Usable Oil Capacity (cc)	Oil Tank Capacity (cc)	Volume Per Stroke (cc/cycle)		Piston Stroke (mm)	Max. Hand Effort (kg)	Material	Weight (kg)	Working Pressure (bar)
			High	Low					
ESP-05	500	800	2.47(at 700 bar)	20.9(at 20bar)	26	44	ALUMINUM	4.6	700
ESP-08	800	1000	2.47(at 700 bar)	20.9(at 20bar)	26	35		5.3	
ESP-17	1700	2000	2.47(at 700 bar)	32.7(at 20bar)	26	35		7.2	
ESP-25	2500	2800	2.94(at 700 bar)	41(at 20bar)	26	38.5		8.6	
ESP-50	5000	5500	2.94(at 700 bar)	41(at 20bar)	26	38.5		14.5	

※ The above options are subject to change without prior notice

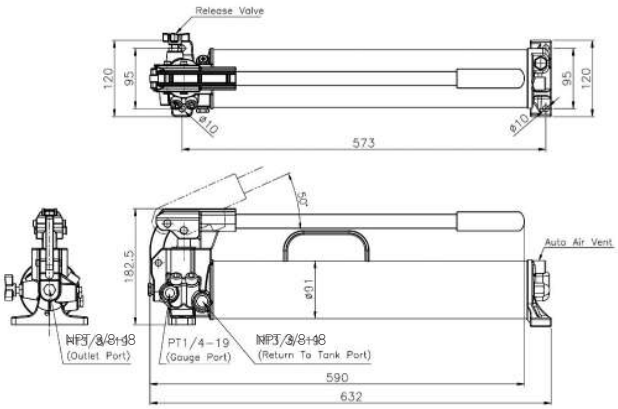
ESP-05



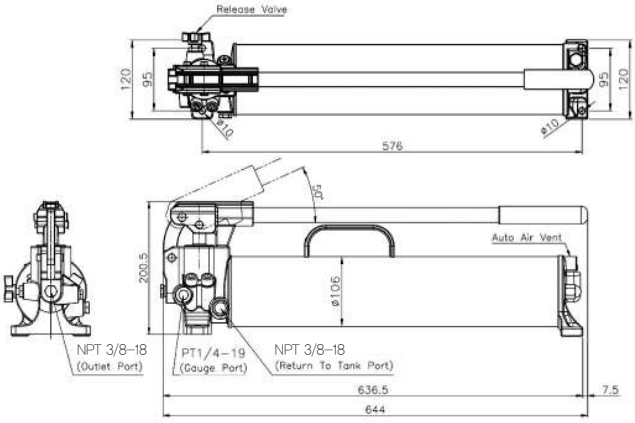
ESP-08



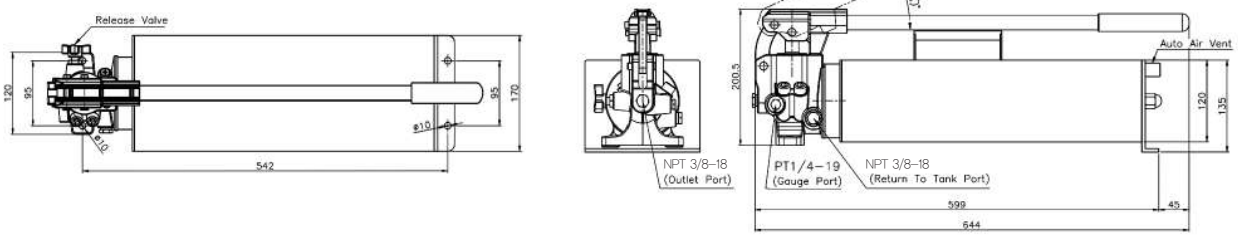
ESP-17



ESP-25



ESP-50



※ The above options are subject to change without prior notice

Hydraulic Hand Pumps

ESP-180, 250, 280



ESP-180L, 250L, 280L

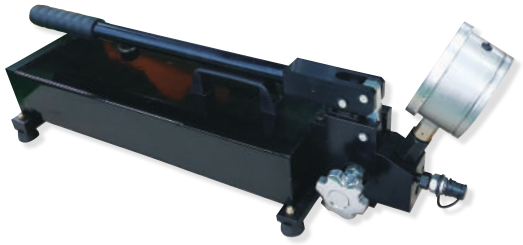


ESP-1800, 2500, 2800



For Ship building Market

ESP-1800L, 2500L, 2800L

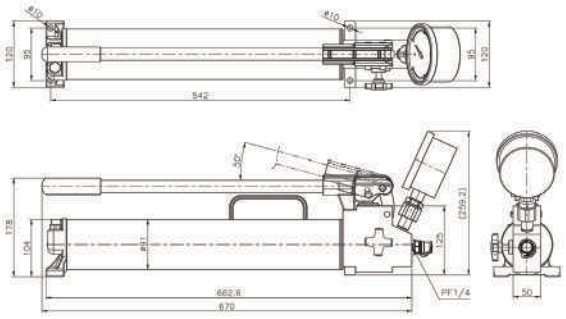


■ **Specifications**

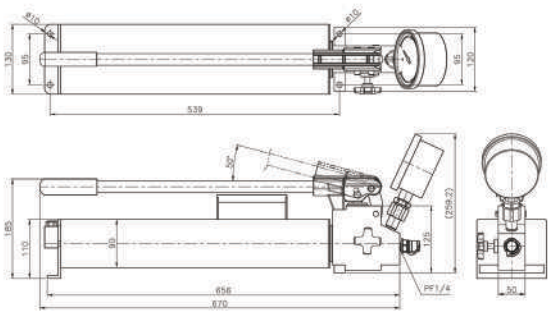
Model	Oil Tank Capacity (cc)	Maximum Pressure (bar)	Volume Per Stroke (cc/cycle)		Piston Dia.(mm)		Piston Stroke (mm)	Max. Hand Effort (kg)	Material	Max. Weight (kg)
			High	Low	High	Low				
ESP-180	2000	1800	0.8cc(at1800bar)	20cc(at20bar)	6	36	26	33.9	ALUMINUM	7.7
ESP-250	2000	2500	0.8cc(at2500bar)	20cc(at20bar)	6	36	26	42.9		7.7
ESP-280	2000	2800	0.8cc(at2800bar)	20cc(at20bar)	6	36	26	48.3		7.7
ESP-180L	4000	1800	0.8cc(at1800bar)	20cc(at20bar)	6	36	26	33.9		11.7
ESP-250L	4000	2500	0.8cc(at2500bar)	20cc(at20bar)	6	36	26	42.9		11.7
ESP-280L	4000	2800	0.8cc(at2800bar)	20cc(at20bar)	6	36	26	48.3		11.7
ESP-1800	1800	1800	0.8cc(at1800bar)	20cc(at20bar)	6	36	26	35		8.1
ESP-2500	1800	2500	0.8cc(at2500bar)	20cc(at20bar)	6	36	26	45		8.1
ESP-2800	1800	2800	0.8cc(at2800bar)	20cc(at20bar)	6	36	26	51		8.1
ESP-1800L	4000	1800	0.8cc(at1800bar)	20cc(at20bar)	6	36	26	35		13
ESP-2500L	4000	2500	0.8cc(at2500bar)	20cc(at20bar)	6	36	26	45		13
ESP-2800L	4000	2800	0.8cc(at2800bar)	20cc(at20bar)	6	36	26	51		13

※ The above options are subject to change without prior notice

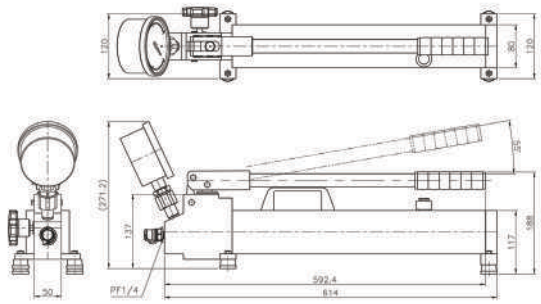
ESP-180, 250, 280



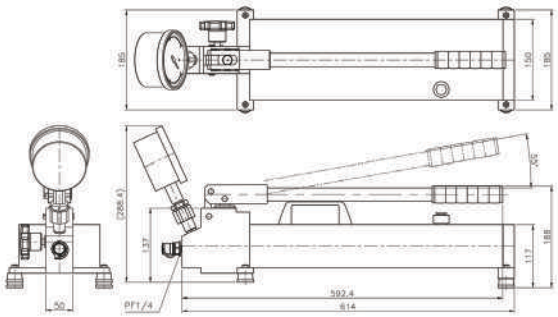
ESP-180L, 250L, 280L



ESP-1800, 2500, 2800

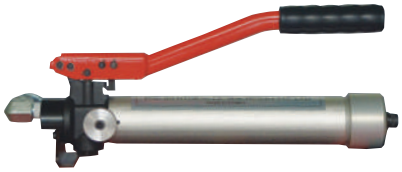


ESP-1800L, 2500L, 2800L



Hydraulic Hand Pumps

THP-1AB



THPA-1B



THPA-1C



THP-3B



THPA-1B-D



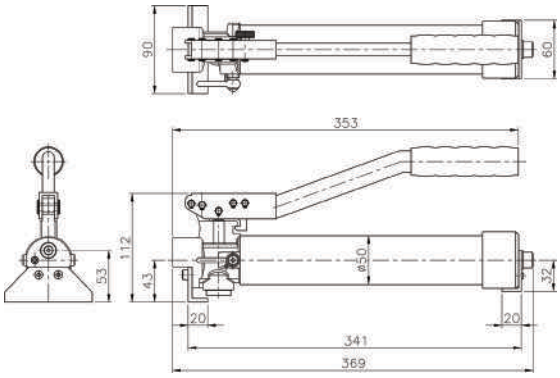
- Reservoir Capacity : 250~10000cc
- Volume per stroke : High Pressure : 0.5~4.7cc/stroke
  Low Pressure : 3~85cc/stroke
- Maximum Pressure : 700bar
- To order double acting hand pump add the letter "D"to the model No. ex) THPA-1B-D

■ **Specifications**

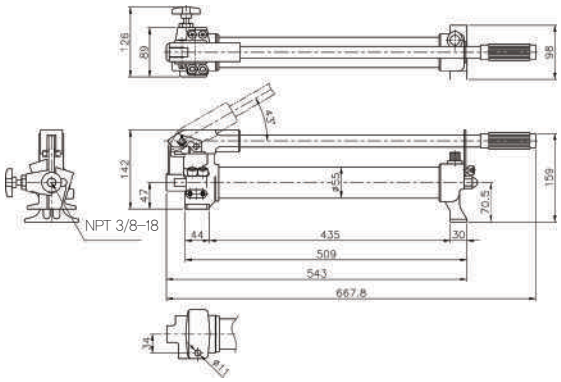
Model	Oil Tank Capacity (cc)	Volume Per Stroke (cc/cycle)		Piston Dia.(mm)		Piston Stroke (mm)	Max. Hand Effort (kg)	Material	Weight (kg)	Working Pressure (bar)
		High	Low	High	Low					
THP-1AB	250	0.5 (at 700bar)	3.0 (at 20bar)	8	20	10	29	ALUMINUM	2.5	700
THPA-1B	800	2.0 (at 700bar)	13.0 (at 20bar)	11	28	20.5	44	ALUMINUM	5.3	
THPA-1C	1600	2.0 (at 700bar)	16.5 (at 20bar)	11	32	20.5	37	ALUMINUM	7	
THP-3B	10000	4.7 (at 700bar)	85 (at 20bar)	14	60	30	50	STEEL	38	

※ The above options are subject to change without prior notice

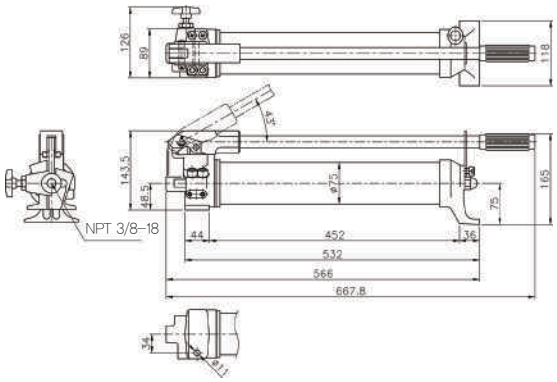
THP-1AB



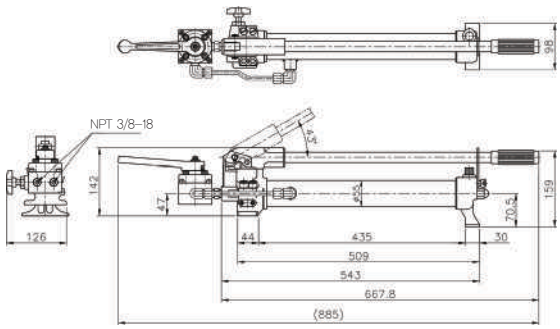
THPA-1B



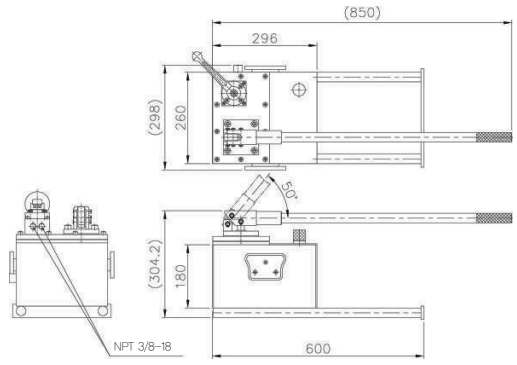
THPA-1C



THPA-1B-D(Double Acting)



THP-3B(Double Acting)

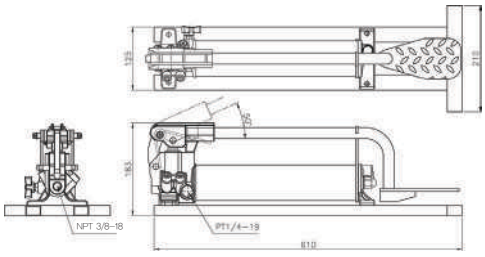


※ The above options are subject to change without prior notice

Hydraulic Foot Pumps

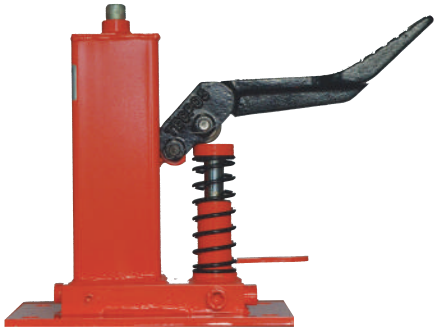
• Foot Pump

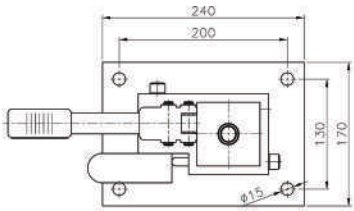


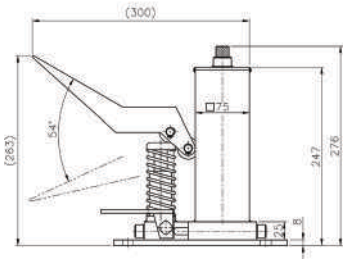


■ Specifications

Model	Usable Oil Capacity (cc)	Oil Tank Capacity (cc)	Volume per stroke (cc/cycle)		Piston stroke (mm)	Max. Hand Effort (kg)	Material	Weight (kg)	Working Pressure (bar)
			High	Low					
ESP-05F	500	800	2.47(at 700 bar)	20.9(at 20bar)	26	35	ALUMINUM	6.7	700







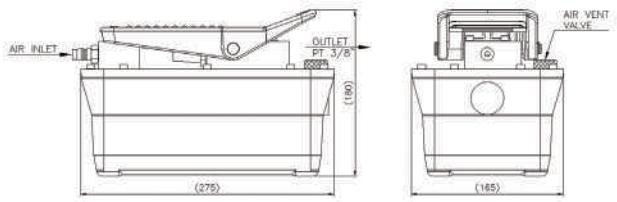
• Maximum Pressure : 210bar
• Selection : To use 30% more than cylinder oil capacity

■ Specifications

Model	Reservoir Capacity(cc)	Maximum Pressure(bar)	Volume per stroke(cc)	Piston Dia.(mm)	Piston stroke(mm)	Weight(kg)
TFP-720	720	210	7.63	18	30	12

• Air Foot Pump





■ Specifications

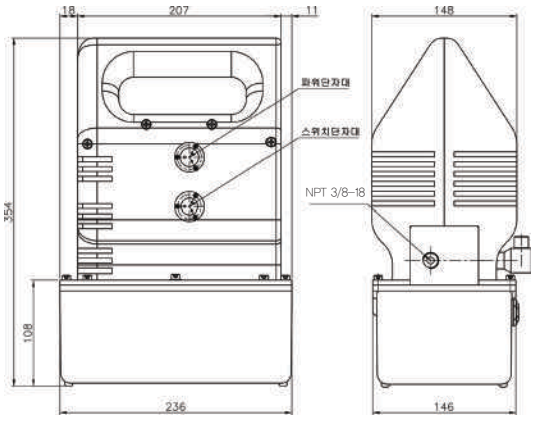
Model	Air pressure (bar)	Working Pressure (bar)	Output Flow Rate (ℓ/㎜)	Dimensions (mm)			Reservoir Capacity (ℓ)	Weight (kg)
				L	W	H		
TAFP-700	7	720	1.0	275	165	175	2	7.3

※ The above options are subject to change without prior notice

Hydraulic Mini Pumps

• AC Pump



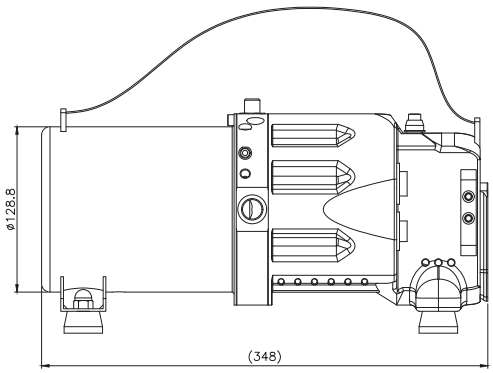


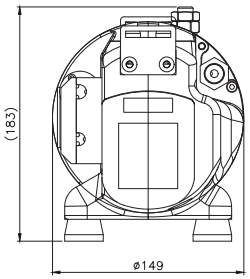
- Maximum Pressure : 700bar
- Remote Control Type

■ Specifications

Model	Pressure Capacity(bar)		Out-put Flow Rate(ℓ /min)		Voltage (V)	Required oil (ℓ)	Weight (kg)
	High	Low	High	Low			
TMPM 1/2	700	70	0.3	2.5	220V Single	2	8.5







■ Specifications

Model	Valve Type	Purpose of Use	Pressure Capacity(bar)		Out-put Flow Rate(ℓ /min)		Voltage (V)	Required oil (ℓ)	Weight (kg)
			High	Low	High	Low			
TMPH-1/2-C	Cock	Hydraulic Tool	700	20	0.3	2.5	AC200V 50/60Hz (Single)	1.5	8.4
TMPH-1/2-S	Single Solenoid								
TMPH-1/2-SA		Crimping, Cutting							

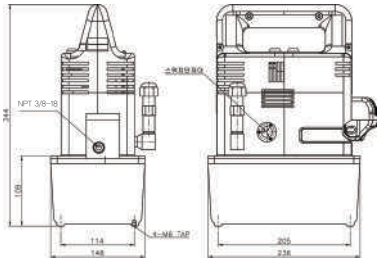
※ The above options are subject to change without prior notice

Hydraulic Mini Pumps

• DC Pump (Battery Operated)

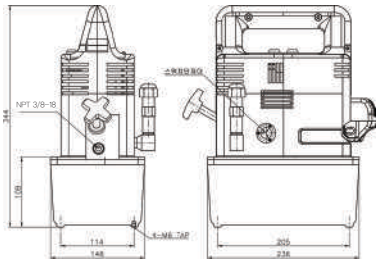


TDPM 1/3-S





TDPM 1/3-C

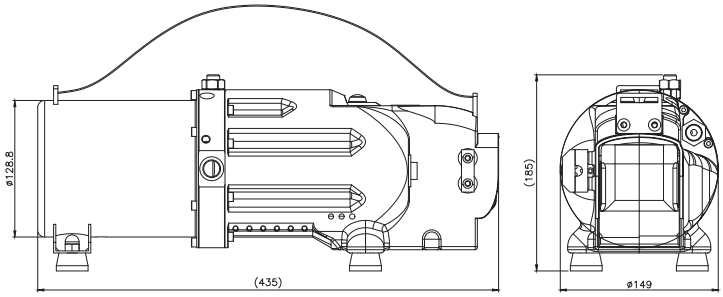


- Battery : Li-ion 18v
- Maximum Pressure : 700bar
- Cock or Single Solenoid Type

■ Specifications

Model	Type	Working Pressure (bar)	Out-put Flow Rate (ℓ /min)		Voltage (V)	Required oil (ℓ)	Weight (kg)
			High	Low			
TDPM 1/3-C	Cock	700	0.2	2.0	Battery Li-ion 18V	2	8.4
TDPM 1/3-S	Single Solenoid	700	0.2	2.0	Battery Li-ion 18V	2	8.6





■ Specifications

Model	Valve Type	Purpose of Use	Working Pressure(bar)		Out-put Flow Rate (ℓ /min)		Voltage (V)	Required oil (ℓ)	Weight (kg)
			High	Low	High	Low			
TDPH-1/3-C	Cock	Hydraulic Tool	700	20	0.2	2.0	18V 5.0Ah (Li-ion Battery)	1.5	8.4
TDPH-1/3-S	Single Solenoid	Hydraulic Tool							8.6
TDPH-1/3-SA		Crimping, Cutting							8.6
TDPH-1/3-SH		Hydraulic Tool							8.6
TDPH-1/3-HS		Indirect live-line work							8.7

※ The above options are subject to change without prior notice

Battery Operated Portable Hydraulic Pump

• DC Pump (Battery Operated)



- New DC Pump with18V 5.0Ah Li-ion Battery.
- Easy to use Hydraulic tools While Moving.
- The battery operated hydraulic pump is a high-performance, ultra-compact.

※ Excluded Hose, Battery weight

■ Specifications

Model	Type	Pressure Capacity (bar)		Out-put Flow Rate (ℓ/min)		Oil Tank Capacity (ℓ)	Voltage (V)	Weight (kg)
		High	Low	High	Low			
TDPM-1500-C	COCK TYPE	1500	20	0.15	2.0	2.5	DC 18V Li-ion Battery	11.5

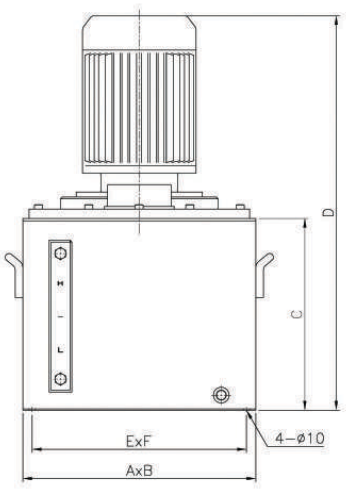
※ The above options are subject to change without prior notice

Electric Hydraulic Pumps

• *Electric Hydraulic Pumps(700bar)*

Single Sol Type





Manual Type(Single/Double Acting)



Double Sol Pilot c/v Type



Double Sol Type

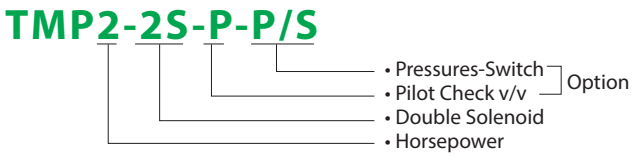


※ The above options are subject to change without prior notice

Model	Dimension			
	A X B	C	D	E X F
TMP 1/3	185×315	120	405	160×296
TMP 1/2	225×295	179	445	195×265
TMP 1	225×295	235	459	195×265
TMP 2	300×370	269	593	263×364
TMP 3	370×515	305	640	340×516
TMP 5	370×515	405	750	340×516

- Reservoir Capacity : 5.5~69.5liter
- Output Flow Rate : 0.24~3.5(High), 2~15.7(Low)
- Maximum Pressure : 700bar
- For use of both single and double acting cylinders
- To order solenoid valve add the letter “S” to the model No ex)TMP2-S

■ Model Number Identification



■ Specifications

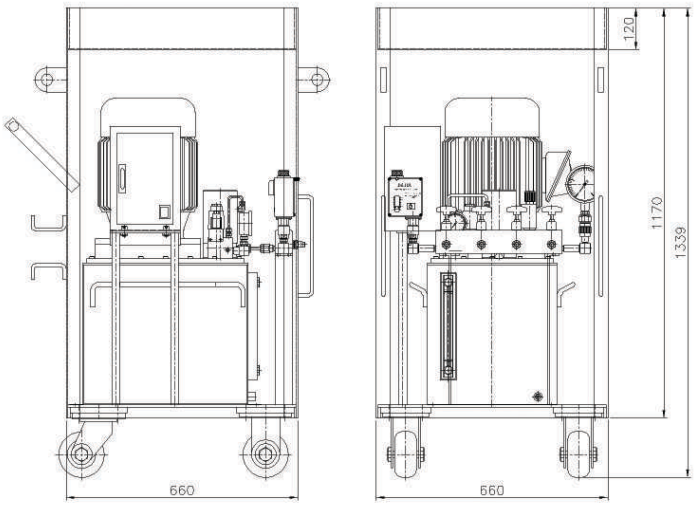
Model	Type	Pressure Capacity (bar)		Output Flow Rate (ℓ /min)		Voltage (V)	Electric Motor			Require Oil (liter)	Reservoir Capacity (liter)	Weight (kg)
		High	Low	High	Low		(Kw)	(Pole)	(RPM)			
TMP 1/3-M	MANUAL	700	70	0.24	2	220V SINGLE	0.25	4	1720	3.5	5.5	26.2
TMP 1/3-S	SINGLE SOLENOID	700	70	0.24	2	220V SINGLE	0.25	4	1720	3.5	5.5	26.1
TMP 1/2-M	MANUAL	700	70	0.43	2.58	220V SINGLE	0.4	4	1720	6	9	34.3
TMP 1/2-S	SINGLE SOLENOID	700	70	0.43	2.58	220V SINGLE	0.4	4	1720	6	9	33.8
TMP 1/2-2S	DOUBLE SOLENOID	700	70	0.43	2.58	220V SINGLE	0.4	4	1720	6	9	34.9
TMP 1-M	MANUAL	700	70	0.86	4.3	220V SINGLE	0.75	4	1720	8.4	12	40.1
TMP 1-S	SINGLE SOLENOID	700	70	0.86	4.3	220V SINGLE	0.75	4	1720	8.4	12	40.5
TMP 1-2S	DOUBLE SOLENOID	700	70	0.86	4.3	220V SINGLE	0.75	4	1720	8.4	12	41.5
TMP 2-M	MANUAL	700	130	1.59	7.1	220V & 380V 3-PHASE	1.5	4	1720	17	24.5	81.7
TMP 2-2S	DOUBLE SOLENOID	700	130	1.59	7.1	220V & 380V 3-PHASE	1.5	4	1720	17	24.5	82
TMP 3-M	MANUAL	700	130	2.12	10.5	220V & 380V 3-PHASE	2.2	4	1720	36	52	102.4
TMP 3-2S	DOUBLE SOLENOID	700	130	2.12	10.5	220V & 380V 3-PHASE	2.2	4	1720	36	52	103
TMP 5-M	MANUAL	700	130	3.5	15.7	220V & 380V 3-PHASE	3.7	4	1720	48	69.5	141.4
TMP 5-2S	DOUBLE SOLENOID	700	130	3.5	15.7	220V & 380V 3-PHASE	3.7	4	1720	48	69.5	142

※ The above options are subject to change without prior notice

Electric Ultra-high Pressure Hydraulic Pump

• Electric Hydraulic Pumps(2,500bar)



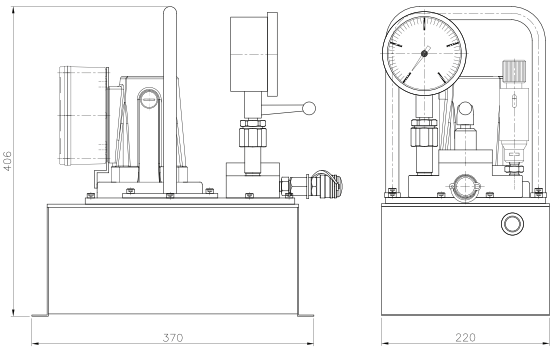


■ Specifications

Model	Type	Pressure Capacity(bar)		Out-put flow rate(ℓ /min))		Voltage (V)	Electric Motor			Required Oil (ℓ)	Reservoir Capacity (ℓ)	Weight (kg)
		High	Low	High	Low		(Kw)	(Pole)	(RPM)			
TMP 5-S2500	SINGLE SOLENOID	2500	100	0.8	5.6	220v & 380v 3-PHASE	3.7	4	760	48	69.5	142
TMP 3-C2000	COCK	2000	100	1.0	8.8	220v & 380v 3-PHASE	2.2	6	1200	36	52	103
TMP 5-C2500	COCK	2500	100	0.8	5.6	220v & 380v 3-PHASE	3.7	6	1200	48	69.5	142

• Electric Hydraulic Pumps(2,000bar)





■ Specifications

Model	Type	Pressure Capacity(bar)		Out-put flow rate(ℓ /min)		Voltage (V)	Electric Motor			Required Oil (ℓ)	Reservoir Capacity (ℓ)	Weight (kg)
		High	Low	High	Low		(Kw)	(Pole)	(RPM)			
TMPB1-1500C	COCK TYPE	1500	20	0.2	4.3	220v 50/60Hz (Single)	1.1	-	-	6.0	9	26.3
TMPB1-2500C	COCK TYPE	2500	20	0.15	1.0	220v 50/60Hz (Single)	1.1	-	-	6.0	9	26.3

※ The above options are subject to change without prior notice

Hand Hydraulic Cutting Tools

TCC132-N



TCC55B

TCC55-N



TCC85C

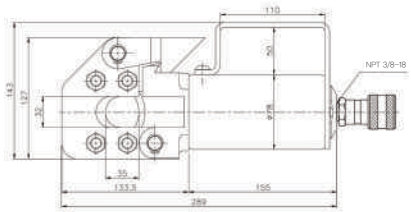
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 384F(NPT3/8) or DN38M

■ **Specifications**

Model	Capacity (ton)	Features (mm)	Dimension (mm)	Suitable Pump	Weight (kg)	Pump
TCC40-N	8	40	330×96×58	Hand Pump or Electric Pump	4.3	ESP-05 ESP-08 THPA-1B or TMPM-1/2, TDPM-1/3
TCC55B-N	10	55	394×110×68		6.6	
TCC55-N	7.5	55	370×140×42		4.2	
TCC85B-N	5	85	410×140×69		5.0	
TCC85-N	7.5	85	400×194×88		4.9	
TCC100-N	8	100	470×152×76		7.6	
TCC132-N	10	132	550×185×76		13	
TCC180-N	27	175	958×300×127		68	
TCC24	8	24	500×150×48	Without Pump	4.3	
TCC40	8	40	590×150×48		5.8	
TCC55B	10	55	658×117×68		8.4	
TCC55C	7.5	55	650×190×60		4.5	
TCC85B	5	85	678×140×69		6.6	
TCC85C	7.5	85	680×220×69		6.3	

• *Wire Cutter*





■ Model Number Identification

TCT32-N

- Without Pump
- Wire Dia
- Wire Cutter
- TECPOS

- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 384F(NPT3/8) or DN38M

■ **Specifications**

Model	Capacity (ton)	Stroke (mm)	Features (mm)	Dimension (mm)	Suitable Pump	Weight (kg)
TCT32-N	20	40	32	289×143×78ø	Hand Pump or Electric Pump	9.4

※ The above options are subject to change without prior notice

Hydraulic Punches

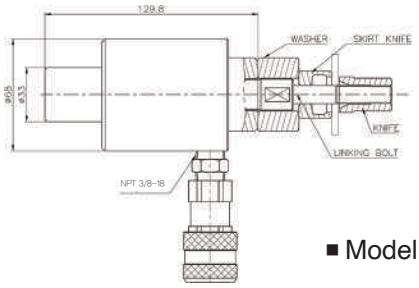
• Hydraulic Knockout Punches

TKOP-2 / TKOP-4



TKOP-P2 / TKOP-P4







■ Model Number Identification

TKOP-2"
- Model No. Size
- Knockout Punch
- TECPOS

- Punching Capacity : 1/2″~ 4″
- Cylinder Capacity : 10ton
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 384F(NPT3/8) or DN38M
- “THP-1AB” is suitable for use(p.32)

■ **Specifications**

Model	Capacity (ton)	Punching Thickness(mm)		Max. Punching Dia (ø)	Weight (kg)
		SS400	SUS		
TKOP-2	10	3.2	1.6	1/2″- 2″	14
TKOP-4				1/2″- 4″	22
TKOP-P2	10	3.2	1.6	1/2″- 2″	16.2
TKOP-P4				1/2″- 4″	24.2

Size	Punching Dia(ø)	Cable Out Dia(ø)	Screw	Remark
B16(1/2)″	21.8	21.0	7/16″×20S	11(mm)
B22(3/4)″	27.6	26.5	3/4″×16S	After make a Hole with a ø11(mm) drill, B16(1/2) punch is need to enlarge drill Hole
B28(1)″	34.1	33.3		
B36(1 1/4)″	42.7	41.9		
B42(1 1/2)″	48.7	47.8		
B54(2)″	60.5	59.6		
B70(2 1/2)″	76.1	75.2	1″×12S	
B82(3)″	88.9	87.9		
B104(4)″	115.5	113.4		

TBKOP-2



■ **Specifications**

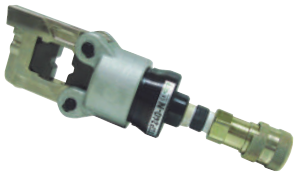
Model	TBKOP-2″		
Capacity(ton)	8	Size(mm)	116×480×80
Stroke(mm)	25	Weight(kg)	4.7
A range of application	TBKOP-2 ▶ B16(1/2)″, B22(3/4)″, B28(1)″, B36(13/4)″, B42(11/2)″, B54(2)″		
Punching Dia(mm)	3.2(Under SS400), 1.6(Under SUS)	Voltage(V)	Battery Li-ion 18V

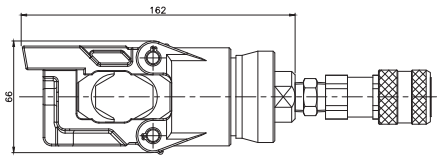
※ The above options are subject to change without prior notice

Hydraulic Tools

• *Hydraulic Crimping Heads*

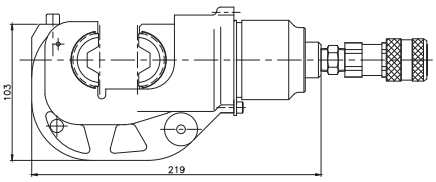
TCP240-N





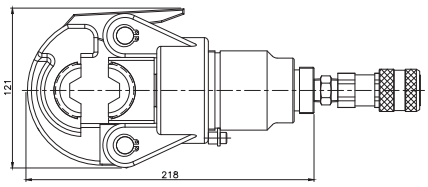
TCP400-32-N





TCP400-20-N





- Maximum Pressure : 700bar(TCP240-N 500bar)
- Hydraulic Coupler : TBC 384F or DN38M(NPT3/8)





■ Model Number Identification

TCP240-N

- Without Pump
- Terminal Crimp Press
- Crimping Press
- TECPOS

■ **Specifications**

Model	Capacity (ton)	Stroke (mm)	Size (mm)	A range of application	Weight (kg)	Suitable Pump
TCP240-N	6	14	74×190	IEC 16~240㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240) AIR(1/2) & GAS(5/16), HOSE Crimping, Octagon DIES	1.4	ESP-05 ESP-08 THPA-1B or TMPM-1/2, TDPM-1/3
TCP400-32-N	13	32	75×300	IEC 16~400㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400) ACSR 32~160㎟, Terminal crimp 8~150㎟, Indent Type, Tap-off connector T20~T365	3.9	
TCP400-20-N	10	20	80×260		3.5	

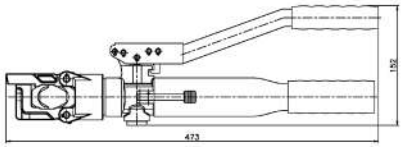
※ The above options are subject to change without prior notice

Terminal Crimping Press

• Hand Hydraulic Crimping Tools

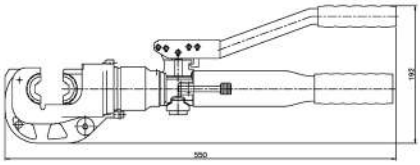
TCP240





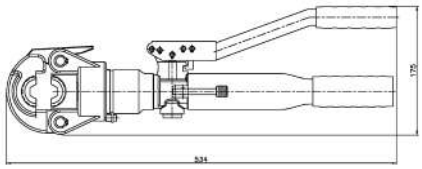
TCP400-32





TCP400-20



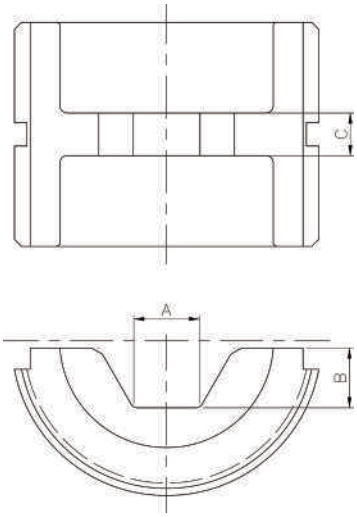


• Maximum Pressure : 700bar

■ Specifications

Model	Capacity (ton)	Stroke (mm)	Size (mm)	A range of application	Weight (kg)
TCP240	6	14	74×480	IEC 16~240㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240) AIR(1/2) & GAS(5/16), HOSE Crimping, Octagon DIES	3.0
TCP400-32	13	32	75×546	IEC 16~400㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400) ACSR 32~160㎟, Terminal crimp 8~150㎟, Indent Type, Tap-off connector T20~T365	5.7
TCP400-20	10	20	80×510		5.4

• Crimping Tools Dies (400/300/TBCT series)



■ Specifications

DIE NO.	A	B	TCP400-32N TCP400-32 TBCP400-32/40	TCP400-20N TCP400-20 TBCP400-20	TBCT/TBCP300
			C	C	C
16	3.8	3.1	13	13	6
25	4.5	3.8	13	13	6
35	5.1	4.6	13	13	6
50	6.1	5.1	13	13	6
70	7.4	6.3	13	13	6
95	8.6	7.2	13	13	6
120	9.6	8.1	13	13	6
150	10.5	8.9	13	13	5
185	11.6	9.9	13	13	5
240	14	11.7	10	10	5
300	15.5	12.3	10	7	5
400	16	14.05	10	7	-

※ The above options are subject to change without prior notice

Hydraulic Crimping Heads



- Capacity : 25~45ton
- Stroke : 29~35mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 384F(NPT3/8) or DN38M
- Dies Hexagon
- To crimp various cable terminals by hydraulic Pressing
- Dies : 300, 400, 500, 630, 800, 1000

■ Model Number Identification

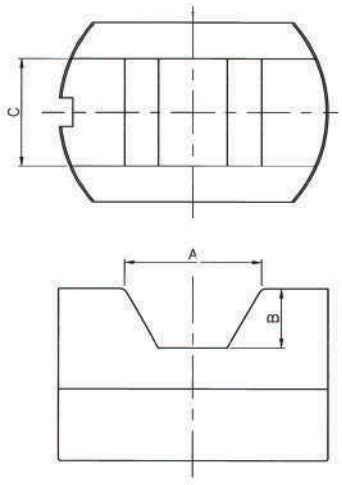
TTCP-630

- Capacity(50㎟)
- Terminal Crimp Press
- TECPOS

■ **Specifications**

Model	Capacity (ton)	Stroke (mm)	Size (mm)	Weight (kg)	A range of application	Using Pump	Standard Dies
TTCP630-N	25	29	99×249	5.1kg	Copper hexagon 300~630㎟	THPA-1B or TMPM-½, TDPM-⅓	Dies 4Set ▶ 300, 400, 500, 630
TTCP800-N	35	35	119×269	8.1kg	Copper hexagon 400~800㎟	THPA-1B or TMPM-½, TDPM-⅓	Dies 4Set ▶ 400, 500, 630, 800
TTCP1000-N	45	30	133×274	9.5kg	Copper hexagon 500~1000㎟	THPA-1B or TMPM-½, TDPM-⅓	Dies 4Set ▶ 500, 630, 800, 1000

• *Crimping Tools Dies*



■ **Specifications**

DIE NO.	A	B	A range of application	C	A range of application	C	A range of application	C
300	28.3	12.2	TTCP-630					
400	32	14	TTCP-630		TTCP-800			
500	38.5	16	TTCP-630	27	TTCP-800	28	TTCP-1000	
630	42.2	17.5	TTCP-630		TTCP-800		TTCP-1000	30
800	46.8	19.8			TTCP-800		TTCP-1000	
1000	52.8	22.8					TTCP-1000	

※ The above options are subject to change without prior notice

Battery Operated Crimping Tools


TBCP400-32


TBCP400-40


TBCP400-20


TBCP300

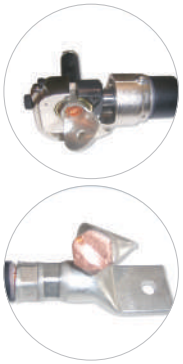

TBCP240


TBCP185


TBCP25


TBCP630-40


TBCP300G



• Voltage(V) : Battery Li-ion 18V

■ Specifications

Model	Capacity (ton)	Stroke (mm)	Size (mm)	Weight (kg)	A range of application
TBCP400-32	13	32	403×323×80	6.0	IEC 16~400㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400), (Indent Type) IEC 16~50㎟, 70~185㎟, 240~300㎟
TBCP400-40	13	42	432×340×80	6.6	IEC 16~400㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400), (Indent Type) IEC 16~50㎟, 70~185㎟, 240~300㎟
TBCP400-20	10	20	350×381×80	5.5	IEC 16~400㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240 exclusive use : 300, 400), (Indent Type) IEC 16~50㎟, 70~185㎟
TBCP300	6	20	116×491×87	4.0	IEC 16~300㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300)
TBCP240	6	14	116×409×80	1.8	IEC 16~240㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240), AIR(1/2) & GAS(5/16), (HOSE Crimping, Hexagon Dies) (Indent Type) : 16~150㎟
TBCP185	8	20	116×491×87	4.0	IEC 16~185㎟(16, 25, 35, 50, 70, 95, 120, 150, 185) (Indent Type) : 16~50, 70~185㎟
TBCP25	1.5	5	116×410×80	1.65	(Non-Insulated Solderless Terminals, 1.5~25SQ)
TBCP630-40	13	42	439×363×80	6.8	IEC 16~630㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400, 500, 630), (Indent Type) IEC 16~50㎟, 70~185㎟, 240~300㎟
TBCP300G	5.3	30	434×372×80	5.3	IEC 16~300㎟ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300) Anderson Type connector (Dieless)

※ The above options are subject to change without prior notice

Battery Operated Crimping&Cutting&Punch Tools



※ Excluded battery weight

Model	TBCT		
Capacity(ton)	6.1	Cutting Capacity(Ø)	29
Climping Capacity(㎟)	IEC 16~300㎟ (The Dies TBCT)	Material	CCP, Lead cable, Underground cable
Stroke(mm)	30	Dimensions (mm)	116×434×80
Voltage(V)	Battery Li-ion 18V	Weight(kgs)	1.9

• Options : Threaded Rod Cutter Head 3/8"
ACSR Cutter Head (ø 25)
Punch Head ø 8.5, ø 10.5, ø 12.5(2set)
3.2mm(SS400), 2.0mm(SUS)

Battery Operated Cutting Tools



TBCC16	TBCC32	TBCC40 / TBCC55B	TBCC85	TBRC55

■ **Specifications**

Model	Capacity (ton)	Cutting Capacity (mm)	Size (mm)	Weight (kg)	Standard parts
TBCC-16	2.4	16	116×454×80	2.3	Battery Li-ion 18V / Charger, 220V Only
TBCC-32	2.4	32	116×456×80	2.3	
TBCC-40	8	40	485×369×80	6.7	Battery Li-ion 18V / Charger, 220V Only
TBCC-55B	8	55	537×388×80	9.1	
TBCC-55	7.5	55	518×417×80	4.9	
TBCC-85	9	85	440×374×80	6.3	
TBRC-55	-	55	405×135×110	2.7	

※ The above options are subject to change without prior notice

Battery Operated Threaded Rod Cutter

TBBC-12



Model	TBBC-12		
Capacity(ton)	4.5	Cutting Capacity(Ø)	1/2", 3/8"
Stroke(mm)	27	Dimensions (mm)	383×332×80
Voltage(V)	Battery Li-ion 18V	Weight(kgs)	4.2

TBBC-38



Model	TBBC-38		
Capacity(ton)	2.8	Cutting Capacity(Ø)	3/8"
Stroke(mm)	21.5	Dimensions (mm)	116×427×80
Voltage(V)	Battery Li-ion 18V	Weight(kgs)	2.7

Hydraulic Threaded Rod

TBC-12N



Model	TBC-12N		
Capacity(ton)	7.5	Cutting Capacity(Ø)	1/2", 3/8"
Stroke(mm)	21.5	Dimensions (mm)	75×260×68
Weight(kgs)	2.7	Using Pump	TMPM-½
Working Pressure	700bar	Hydraulic Coupler	TBC384F or DN38M

※ The above options are subject to change without prior notice

Stainless Pipe Joint Tools

TBPS-45G



Model	TBPS-45G		
Capacity(ton)	Stroke(mm)	Size(mm)	Weight(kg)
6.1	45	314×450×80	4.3
A range of application	Dual Ring 13, 20, 25, 30, 40, 50, 60		
Voltage(V)	Battery Li-ion 18V		

TPS-45N



※ Without Pump

Model	TPS-45N		
Capacity(ton)	Stroke(mm)	Size(mm)	Weight(kg)
6.1	45	360×70	3.1
A range of application	Dual Ring 13, 20, 25, 30, 40, 50, 60		
Using Pump	TMPM½		



13, 20, 25 Y-Type Joint



13, 20, 25 R-Type Joint



Claw/30, 40, 50, 60 Joint

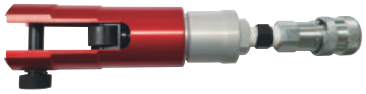
TBPS



※ Excluded Battery Weight

Model	TBPS (Dual Ring Joint Tool)		
Capacity(ton)	Stroke(mm)	Size(mm)	Weight(kg)
6.1	30	120×415×75	1.9
A range of application	Dual Ring 13, 20, 25		
Voltage(V)	Battery Li-ion 18V		

TPS-N



※ Without Pump

Model	TPS-N		
Capacity(ton)	Stroke(mm)	Size(mm)	Weight(kg)
6.1	30	360×70	1.2
A range of application	Dual Ring 13, 20, 25		
Using Pump	TMPM½		

※ The above options are subject to change without prior notice

Stainless Pipe Joint Tools

TBPE

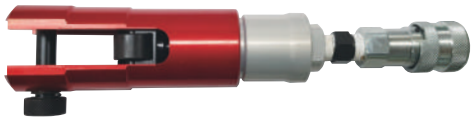




※ Excluded Battery Weight

Model	Capacity (ton)	Stroke (mm)	Size (mm)	Weight (kg)	A range of application	Voltage(V)
TBPE	6.1	30	120×415×75	1.9	Single Ring 13, 20, 25, 30	Battery Li-ion 18V

TPE-N



※ Without Pump

Model	Capacity (ton)	Stroke (mm)	Size (mm)	Weight (kg)	A range of application	Using Pump
TPE-N	6.1	30	360×70	1.2	Single Ring 13, 20, 25, 30	TMPM½

※ The above options are subject to change without prior notice

Stainless Pipe Joint Tools

• Squeezed after dimension

Standards	Outside Diameter Pipe	Measurement before pressing	Measurement after pressing	Tolerance
13SU	15.88	23.00	21.6	± 0.3
20SU	22.22	30.10	28.8	± 0.3
25SU	28.58	37.20	34.8	± 0.3
30SU	34.00	45.00	42.3	± 0.3
40SU	42.70	55.70	52.7	± 0.4
50SU	48.60	62.00	58.6	± 0.4
60SU	60.50	76.40	71.9	± 0.4
80SU	89.10	111.00	104	± 0.5
100SU	114.30	137.00	128.3	± 0.5

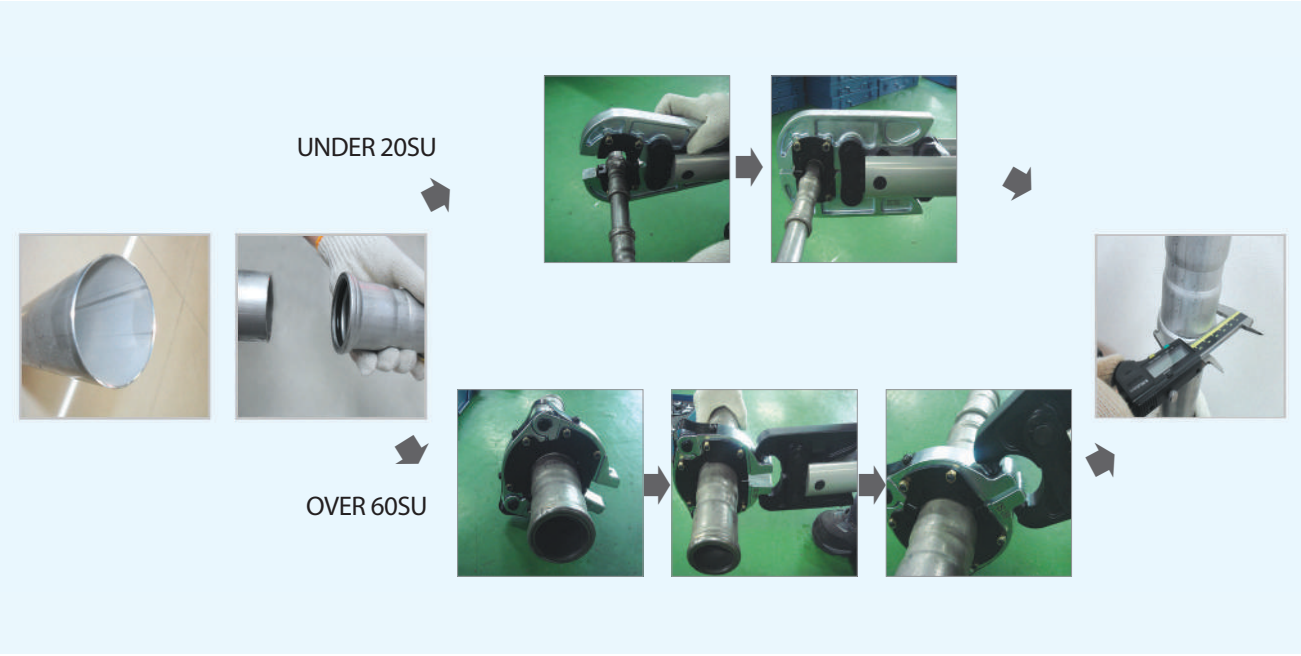
Pipe Joint Tools

• Stainless steel pipes for ordinary piping(KS D 3595)

Standards	External Diameter	Tolerance for An External Diameter		Thickness	Tolerance	Unit of Weight(kg/m)	
		External Diameter	Circumference			STS304TPD	STS316TPD
8SU	9.25	+ 0 - 0.37	-	0.7	± 0.12	0.154	0.155
10SU	12.70			0.8		0.237	0.239
13SU	15.88			0.8		0.301	0.303
20SU	22.22			1.0		0.529	0.532
25SU	28.58			1.0		0.687	0.691
30SU	34.00	± 0.34	± 0.20	1.2		0.980	0.691
40SU	42.70	± 0.43		1.2		1.24	1.25
50SU	48.60	± 0.49	± 0.25	1.2		1.42	1.43
60SU	60.50	± 0.60		1.5	± 0.15	2.20	2.21
75SU	76.30	± 1%		1.5		2.79	2.81
80SU	89.10			2.0	± 0.30	4.34	4.37
100SU	114.30			2.0		5.59	5.63
125SU	139.80			2.0		6.87	6.91
150SU	165.20			3.0	± 0.40	12.1	12.2
200SU	216.30			3.0		15.9	16.0
250SU	267.40			3.0		19.8	19.9
300SU	318.50			3.0		23.6	23.8

※ The specification water, hot water supply, drainage, hot and cold water piping and other piping shall be used against a staninless steel pipe

■ How to use JOINT TOOL



1. Application Criteria

- Stainless steel pipe for ordinary piping (KS D 3595) 13~100 SU, SCH/5(KS D 3576) can be used over the 80 SU.

2. Application Range

- Piping pipe for water supply and cooling/heating pipe, water supplying pipe inside of the structure, plumbing in the ship.

3. The Material

- STS 304, 316L, application of K-Type pipe

4. Usage(Picture for a clear explanation)

1) Cut off the pipe - Cut off the pipe as user wants. (The pipe edge must be perpendicular from tools.)
2) Scrape the BURR - The BURR must be scraped the BURR on the edge pipe, it will damage the rubber-ring (O-ring) when pipe inserted.
That causes the water leak.
3) Insert - Insert pipe into fittings straight with an eye to getting damaged of rubber-ring (O-ring)
4) Compress - Compress joint with joint tool (operated by portable or electric motor pump) on insertion pipe into fittings.
5) Check out the dimension of compressed part.

5. How to Check and Test

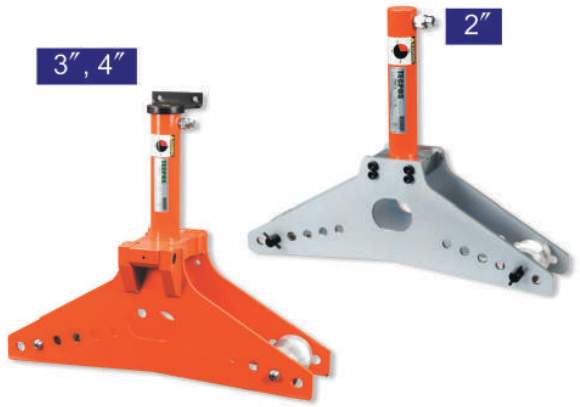
1) Checking - Check that if it was compressed as circle form or appeared double cirular grooves clearly and then check out the dimension with a fig for testing or vernier calipers.
2) Testing - After the completion of a work, apply water pressure to product(3~4 times of common pressure), at this time, check a leak.

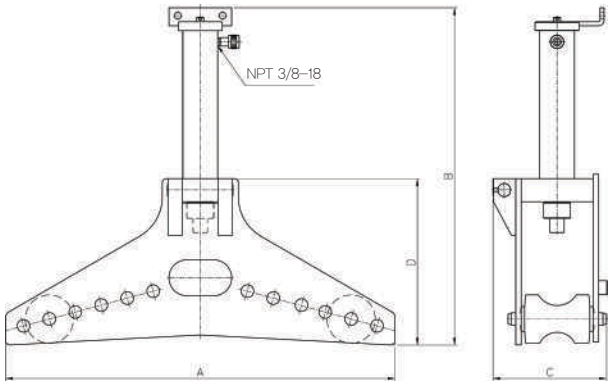
6. Matters that require attention

1) BURR must be removed by a rasp or a grinder after cutting the pipe.
2) Clean the pipe before insertion pipe into fittings.
3) Insert pipe into fittings straight with an eye to getting damaged of rubber-ring (O-ring), unless it insert smoothly, user put water or something on rubber-ring (O-ring)for inserting smoothly.
4) When operating electric motor pump, check out the air vents(it must be opened)and a mount of ail.

※ The above options are subject to change without prior notice

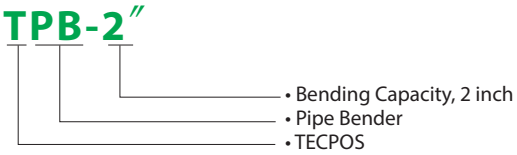
Hydraulic Pipe Benders





- Cylinder : 2″, 3″, 4″
- Capacity : 10~20ton
- Stroke : 255~300mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)

■ Model Number Identification







Shoe Size		Water Pipe				
mm (A)	inch (B)	Out–Dia (mm)	In–Dia (mm)	Thickness (mm)	Radius (mm)	Weight (kg)
15	1/2	21.7	16.1	2.8	60	0.7
20	3/4	27.2	21.6	2.8	80	1.1
25	1	34.0	27.6	3.2	100	2.6
32	1 1/4	42.7	35.7	3.5	130	2.6
40	1 1/2	48.6	41.6	3.5	160	4.1
50	2	60.5	52.9	3.8	220	5.9
65	2 1/2	76.3	67.9	4.2	320	8.1
80	3	89.1	80.7	4.2	425	9.4
100	4	114.3	105.3	4.5	600	15.1

Shoe Size		Conduit Tube				
mm (A)	inch (B)	Out–Dia (mm)	In–Dia (mm)	Thickness (mm)	Radius (mm)	Weight (kg)
16	1/2	21.0	16.4	2.3	75	0.7
22	3/4	26.5	21.9	2.3	90	1.1
28	1	33.3	28.3	2.5	130	2.6
36	1 1/4	41.9	36.9	2.5	195	2.6
42	1 1/2	47.8	42.8	2.5	230	4.1
54	2	59.6	54.0	2.8	270	5.9
70	2 1/2	75.2	69.6	2.8	450	8.1
82	3	87.9	82.3	2.8	500	9.4
104	4	113.4	106.4	3.5	680	15.1

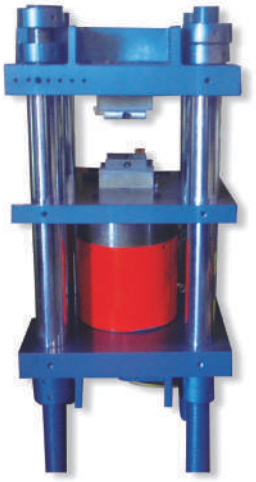
■ Specifications

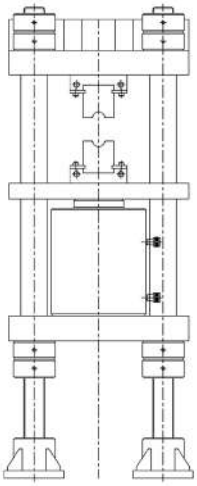
Model	Capacity (Inch)	Max. wall Thickness (mm)	Max. bending angle (°)	Dimension(mm)				Bending Shoe	Cylinder Capacity	Stroke (mm)	Oil Capacity (cc)	Weight (kg)	Pump
				A	B	C	D						
TPB-2	2″(50A)	3.8	90	700	555	250	170	1/2″ ~ 2″	10	255	388	24	1B, 08 1/2HP
TPB-3	3″(80A)	4.5	90	870	751	255	370	1/2″ ~ 3″	15	285	677	62	1C, 17 1/2HP
TPB-4	4″(100A)	4.9	90	1000	766	260	370	1/2″ ~ 4″	20	300	996	79	

※ The above options are subject to change without prior notice

Hydraulic Shop Press

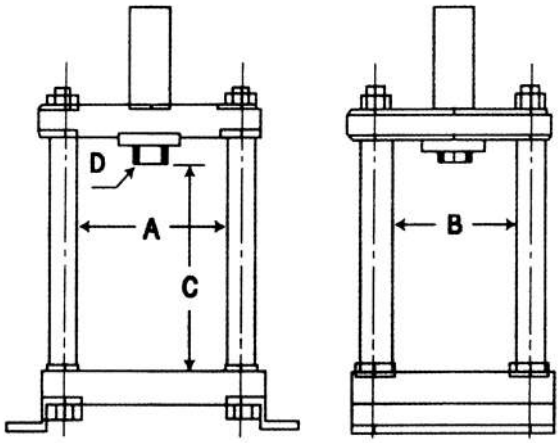
• Wire Rope Swage Press





• Shop Press(TSP)





■ Specifications

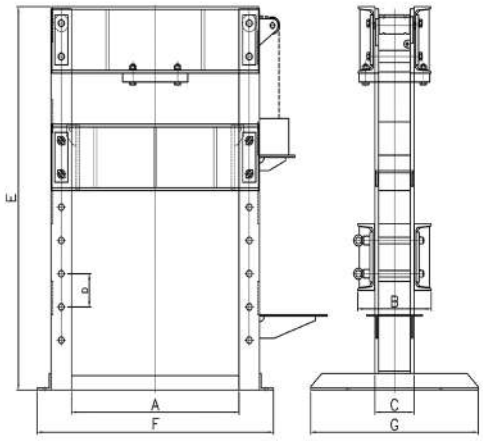
Model	Capacity (ton)	Stroke (mm)	Dimension(mm)				Weight (kg)	Cylinder	Pump
			A	B	C	D			
TSP-10	10	150	300	250	300	M36×P2.0	140	TSC10150	Hand Pump or Electric pump
TSP-20	20	150	350	250	390	M56×P2.0	240	TSC20150	
TSP-30	30	150	400	300	400	M62×P2.0	360	TSC30150	

※ The above options are subject to change without prior notice

Hydraulic Shop Press

• *Shop Press*





- Capacity : 20~200ton
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 382F(NPT3/8)
- When pulling and pushing of bearings, gears, couplings, and assembling of products

■ Specifications

Model	Cylinder (ton)	Dimension(mm)							Weight (kg)	Pump
		A	B	C	D	E	F	G		
TSPM-20	20	550	330	170	150	1600	860	700	180	Hand Pump or Electric pump
TSPM-30	30	640	330	170	150	1730	970	770	320	
TSPM-50	50	900	390	210	150	1730	1270	900	530	
TSPM-100	100	1000	460	260	200	1930	1440	900	940	
TSPM-150	150	1200	550	350	200	2220	1760	1300	1450	
TSPM-200	200	1200	550	350	200	2220	1760	1300	1464	

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Hydraulic Pumps

• Electric Ultra-high Pressure Hydraulic Pumps(2,000bar)

TMP3-M2000



■ **Specifications**

Model	Type	Pressure Capacity(bar)		Out-put flow rate(ℓ /min)		Voltage (V)	Electric Motor			Required Oil (ℓ)	Reservoir Capacity (ℓ)	Weight (kg)
		High	Low	High	Low		(Kw)	(Pole)	(RPM)			
TMP3-M2000	MANUAL	2000	100	1.0	8.8	220v & 380v 3-PHASE	2.2	6	1200	36	52	103

• Hydraulic Rock Splinter Cylinder

TRB-21



TRB-1







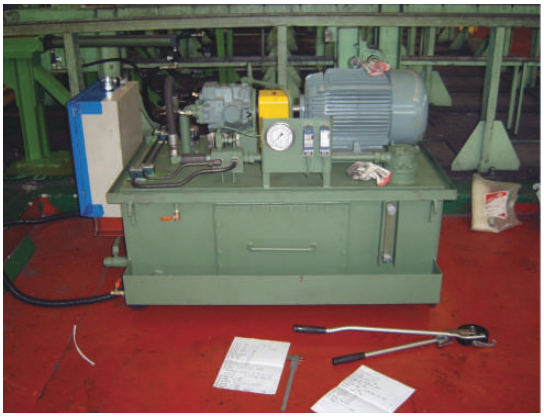
■ **Specifications**

Model	Cylinder Capacity(ton)	Cylinder Stroke(mm)	Piston Q'TY	Max. Pressure(bar)	Weight(kg)
TRB-1	156	52	1EA	1500	35
TRB-21-2	212	52	2EA	1500	43.8
TRB-21-3	190	47	2EA	1500	38

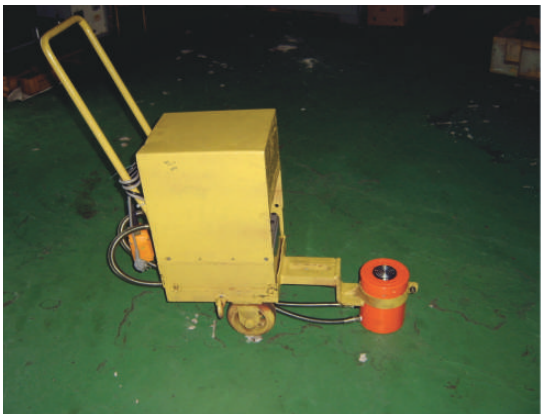
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Examples of Applications



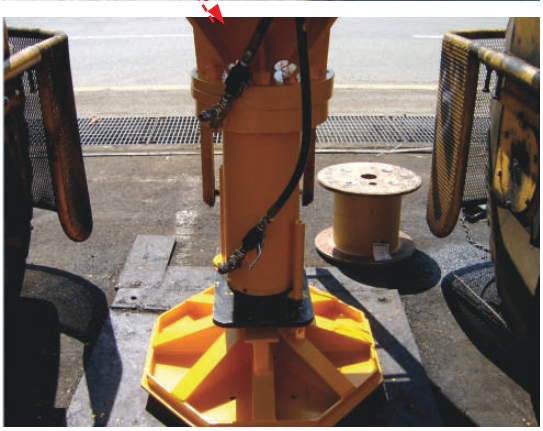








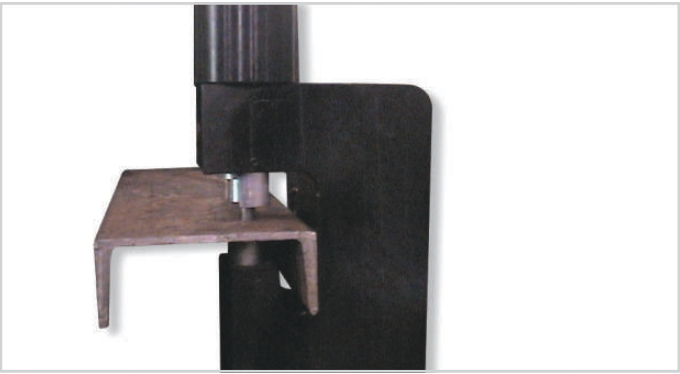




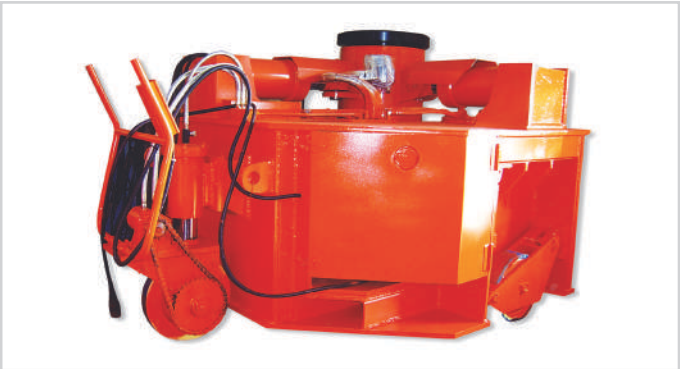


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Examples of Applications



■ C-Section Steel Punching



■ Block Lift(Heracles)



■ Hydraulic Automatic Pullers



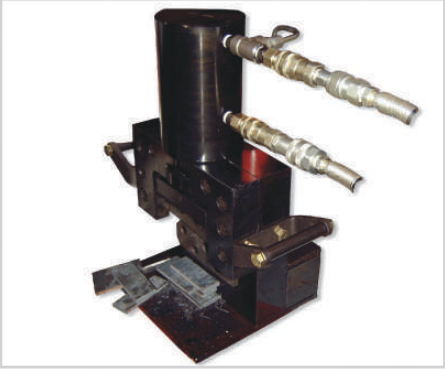
■ Table Lift



■ Shop Press



■ 10ton C-Type Press



■ Plate Cutters



■ Battery Block Lift



■ Battery Block Lift

※ The above options are subject to change without prior notice

Examples of Applications



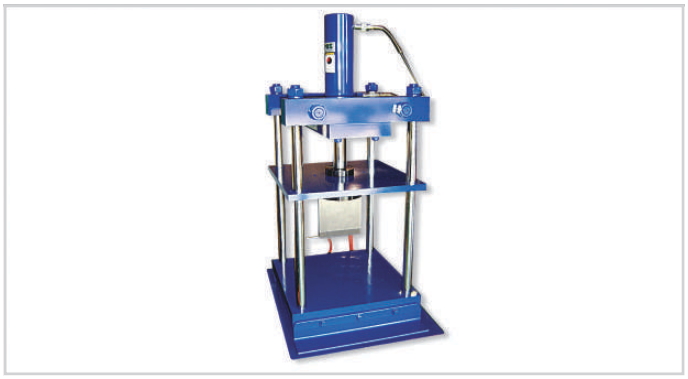
■ **Steel Supports removing Hydraulic JIG** : Used in removing steel supports for shipblock.



■ **Block Lift** : Usually used to set heavy duty shipblocks when shipbuilding.



■ **500ton Press** : Press may be used horizontally for special applications with user-supplied supports.



■ **30ton Powder forming Press** : Using Single-Acting 30ton Cylinder



■ **1.5ton Reel Stand** : Ratchet type



■ **2ton Reel Stand** : Hydraulic type



■ **Air Driven Pump & Water test Pump** : Used in pressure test (Pipe, Tank, Hose, Valve) and bolt tensioning power unit, etc.

※ The above options are subject to change without prior notice

Hydraulic Accessories

Item	Model		Application
	DMV700–V3–01–H		Hand pumps and Electric pumps for use of both single and double acting **Manual Valve**
	DSV–700–3/2–T Single–Acting	DSV–700–4/3–01–AB Double–Acting	Ideal for independent remote control of multiple cylinders or functions. **Solenoid Valve**
 Stop Valve  Needle Valve  Manifold Stop Valve	TMV 2575		Adjust cylinder acting speed by adjusting oil capacity. **Stop Valve**
	TMV 2577		Adjust cylinder acting speed by adjusting oil capacity. **Needle Valve**
	TMV 2575–2		For Control of two or several single–acting cylinders simultaneously. **Manifold Stop Valve**
	TMF 2522		For use of two cylinders with one pump **2–Port Manifold**
	TMF 2544		For use of several cylinders with one pump **4–Port Manifold**
	TMFO 2529		For use of two several cylinders with one pump **6–Port Manifold**
	TMFY 2529		For use of two cylinders with one pump **3–Port Manifold**

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Hydraulic Accessories

Item	Model	Application
	G6310	Gauge Face Dia. 63mmx1000bar
	G1010	Gauge Face Dia. 100mmx1000bar
	G1025	Gauge Face Dia. 100mmx2500bar
	GA701	Gauge Block. For easy mounting of a pressure gauge on to your system
	GA702	Gauge Block. For easy mounting of a pressure gauge on to your system
	THS 700	Max. Pressure 700bar
	TBC 381M	3/8″ PT. Pin type coupler
	TBC 381F	3/8″ PT. Pin type cylinder coupler
	TBC 382M	3/8″ PT. Seed type coupler
	TBC 382F	3/8″ PT. Seed type cylinder coupler
	TBC 384M	3/8″ PT. One Touch type coupler
	TBC 384F	3/8″ PT. One Touch type coupler
	DN 38M	3/8″ PT. Non-Leak One Touch type Male coupler
	DN 38F	3/8″ PT. Non-Leak One Touch type Female coupler
	DN 38MN	3/8″ NPT. Non-Leak One Touch type Male coupler
	DN 38FN	3/8″ NPT. Non-Leak One Touch type Female coupler
	DN 14M	1/4″ NPT. Non-Leak One Touch type Male coupler
	DN 14F	1/4″ NPT. Non-Leak One Touch type Female coupler
	DS-700	·Pressure Switches, easy to use with high Accuracy ·Pressure 700bar

※ The above options are subject to change without prior notice



■ All Design and specifications are subject to change with or without notice.

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