Histo	ory	
1995	Aug	Established Daejin Hydraulic Machinery
1996	Jun	Completed localization development of aluminum HYDRAULIC CYLINDERS
1999	Feb	Developed HYDRAULIC PUNCH localization forging
	Mar	Completed development of HYDRAULIC MOTOR PUMP localization
	Jun	Acquired quality system IOS 9001 certification
	Sept	Registered incorporation of Daejin Hydraulic Machinery
	Feb	Registered TECPOS trademark
	Apr	Localized HYDRAULIC PUNCH(2420) forging
2000	Jun	Expanded and relocated plant
	Sept	2000 Awarded the Minister of Commerce, Industry and Energy for Excellent Capital Goods Development
2001	Jan	Acquired CE mark
2005	Nov	ISO 9001 / ISO 14001 certification
	Feb	Launched exportation to South, North America
	Mar	Venture company certification (Busan–Ulsan Small and Medium Business Administration INNO–BIZ Certification
2006	Apr	Opened Company–affiliated research center
2006	May	Established Company-affiliated research center (KOITA)
	Jul	Succeeded Korea's first battery tools
	Dec	Received a commendation for excellent small and medium-sized enterprises (SMEs) (Busan-Ulsan Small and Medium Business Administration)
	Mar	Certified as specialized parts and materials business (Ministry of Commerce, Industry and Energy)
2007	Jun	Succeeded Korea's first pump development
	Oct	Commenced exporting to Central Asia
	Feb	Selected as an excellent technology company by KIBO
2008	Apr	Expanded and relocated plant (Gamjeon-dong)
2000	Oct	Commendation of Minister of Knowledge Economy in Technology Innovation Competition (Ministry of Knowledge Economy)
2000	Feb	Achieved 100 patents/utility models/design registrations
2009	Jun	Designated as an excellent manufacturing technology research center (Ministry of Knowledge Economy)
2011	Feb	2011 Commended exporting to Mitsumi Heavy Industry in Japan
2012	May	Received a citation from the Korea Invention Promotion Association
2013	Nov	Signed MOU with PURDUE UNIVERSITY (prestigious university related to hydraulics) in the US
2014	Nov	2014 Succeeded in localization development of air driven hydraulic pump (CE acquisition)
2015	Feb	Signed a partnership with a global company CEJN
2015	Oct	Signed MOU with a global group CEJN (Busan-EU Business Forum)
2016	Jun	Signed a collaboration agreement with Marin Korean Branch (succeeded in localization of Fuel Injector Test Unit)
2017	Aug	Succeeded in development of hand pump automatic air vent system (acquired CE)
2018	May	Succeeded in developing portable computer cutter
2012	Jul	Succeeded in developing MECHANICAL FLANGE ALIGNMENT/FLANGE SPREADER TOOL
2019	Oct	Designed as Pre-Champ Company
2020	Oct	Received performance certification on hot line from Korea Electric Association

TECPOS	Technology Power System		
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			TECPOS
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Profeller Fitting Jacks / 28	Disk Ram Type / 28	Hydraulic Hand Pumps / 32	Double-Acting Hydraulic Hand Pumps / 37
	<b>00</b>		
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land Pumps / 39	Foot Pump / 40		
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All Design and specifications are subject to change with or without notice.

#### Safety Instructions

#### Product Description

#### Safety Precautions

- · Please read and understand all precautions and warnings.
- Ensure compliance with all safety precautions to avoid injury or material loss that may occur due to malfunction or negligence in use.
- TECPOS shall not be responsible for any injury or loss that may occur due to negligence, violation of safety regulations, inappropriate maintenance, or use of nonconforming products/systems.
- For questions on safety prevention and operation, please contact TECPOS headquarters or distributors at any time.

#### Precaution

- ① Wear appropriate personal protective equipment when using hydraulic equipment.
   Example) Protective glasses, safety shoes, and protective gloves
- 2 Hydraulic tools must be used only after thorough maintenance and inspection.
- ③ Only genuine TECPOS parts shall be used when servicing hydraulic equipment.
- ④ Install a barrier when welding or working in a hot place.

(Packing and seal may be damaged due to generated heat, causing leakage and malfunction.)

- (5) Do not impact hydraulic equipment with hammers or other objects.
- 6 Do not let hydraulic fluid contact the skin.
- ⑦ Coupling of hydraulic equipment must be checked before use.
- (8) Periodic maintenance and cleaning (foreign substances in hydraulic equipment) are required for lasting use.
- (9) The surrounding environment and working conditions should be considered.

#### Caution A

① Always work with caution.

- Pumps must be carefully handled in terms of operation and working conditions before use.
- Do not use in cases of operator fatigue.
- 2 Tidy up the workplace.
- Messy workplace and workbench may cause accidents.
- ③ Wear appropriate work clothes.
  - Wear non-slip shoes when working outdoors to lower risk of accidents.

④ Use the right pump for the operation.

- Do not use the pump for purposes other than its intended purpose.
- The pump must be used within the stated power range for efficient and safe operation.
- Accidents may occur if the pump is used beyond its stated output range.
- (5) Prevent access to the workplace.
- Only the operator shall touch the electric wires of the pump and charger.
- Prohibit all visitors from accessing the workplace.
- (6) Do not operate the machine with bad posture.
  - Always maintain balanced posture for safe operation.
- ⑦ Store the pump safe.
  - Store in a dry place, locked away and out of reach of children.
  - Do not store in a place subject to sudden temperature changes, direct sunlight, or with a risk of fire or explosion.
  - Clean tools before storing for safe and efficient operation.
- 8 Check tools for damage.
  - Check damaged parts, operation status before use.
  - Comply with the instruction manual when repairing or replacing parts. If problems are not specified in the instruction manual, contact the headquarters or distributor for advice.
- (9) Tool repairs must be carried out by headquarters or distributor.
  - Do not dismantle and alter the product in any way.
  - All repairs must be carried out by an authorized party (distributor or the headquarters).

#### Safe use

#### 1. Cylinder

- Cylinders with an allowable load that is at least 20% higher than the working volume must be used.
- · Ensure support is aligned at the center of the product to prevent bias or load.
- When fixing cylinders for a long period, reinforcement devices must be used.
- · Avoid snow and rain when working, and store after maintenance has been completed.
- · Always level the cylinder when working.
- · Be careful not to expose hydraulic parts to high temperatures.
- Do not weld or heat the cylinder.

#### 2. Pump

- · Check normal operation and pressure (700 bar) when driving the pump.
- · Operation of the pump relief valve against the safety instruction may cause malfunction.
- If the pump lever loses power during use and pressure is not formed, or the cylinder operation is irregular, turn the cylinder upside down and operate a few times to remove the air inside.
- If oil level is insufficient while using the pump, lower the cylinder and refill to 85% of the tank capacity.
- · Check the operating voltage and status of single-phase or three-phase electric pumps before use.
- · Check rotation direction of the motor before use.
- (If rotation direction is changed in three phases, discharge and pressure will not be formed)
- To maintain the life of the pump, check status of oil contamination according to frequency of use and replace periodically.

#### 3. Hose, coupler

- Use a hose suitable for the working pressure.
- The shorter the hose length, the better the hose performance. Do not bent the hose.
- · Be sure to check complete fastening status of hose and coupler before use.
- When winding the Teflon seal on the coupler, wind 4 to 8 times to the second thread.
- · Check the tightening status of male and female couplers.
- In case of poor fastening condition, even though the piston of the cylinder moves forward (up), it may not move backward (down)

#### 4. Oil

- Oil with appropriate viscosity specified by the manufacturer shall be used for maximum efficiency.
- The oil level shall be maintained at 85% of the pump tank capacity.
- Check oil tank leakage status.
- Oil that has been used for a long period shall be replaced with clean oil as foreign substances can enter and decrease viscosity and usability.

• For efficient results, put a magnet in the oil tank at the site where iron powder enters the pump tank.

#### 5. Oil leak

- Oil leakage may occur if tightening bolts are loosened.
- Check and replace packing, seals, and O-rings periodically. (The cause of seal breakage is due to the shaft not being centered or the drain pressure being too high.)

#### 6. Temperature rise in pump

· Check if the cooler performance is appropriate and oil tank flow rate is adequate.

#### 7. The pump motor does not rotate and generates abnormal noise.

Motor damage of pump, shaft breakage: Dismantle and check damaged parts, replace damaged parts and get follow-up service.

(In this case, the cause must be identified. The cause is abrasion due to dust, poor tightening of the head cover bolt, or excessive torque.)

#### 8. Motor overheating

- · Check whether the motor capacity is correct and use according to the capacity.
- · Check whether driving pressure of the pump is normal.

#### 9. Abnormal wear of the pump

- · Contamination of hydraulic oil from long-term use.
- · Check if viscosity is too low or oil temperature is too high.
- Deterioration of hydraulic oil (function deteriorates as the oil ages in proportion to usage amount)

#### Pump





Do not touch the relief valve (pressure relief valve) shipped with pre-set pressure.
Check system pressure with a gauge.





• When maintaining and releasing pressure, the relief valve (load maintaining and releasing valve) shall be tightened by hand, (risk of damage if using tools)









 A manual pump is easy to operate if used correctly, but do not use a long extension rod,





- When adding oil to the pump, fully retract the cylinder and fill oil only to the marked level,
- Use only original oil from suppliers specified by TECPOS
   (Use Shell hydraulic oil unique numbers 15 and 32)
- Incorrect oil can damage the seal and pump and void the warranty.

#### Jack





• Leveling- Keep the bottom of the jack in close contact





Never place any part of your body under the workbench until the workbench is firmly secured in place (do not support with a jack).





 When lifting an object with a jack, do not support a curved or inclined object at the bottom of the jack and make sure the cylinder saddle is in close contact with the object.t





· When not using the jack, the handle must be separated.



#### Cylinder





 If the cylinder bottom is not sturdy, support firmly using a cylinder base, (maintain the level)





- Do not use cylinders without saddles,
   (Plunger deformed as shown in the image : mushroom type)
- Saddle distributes load evenly to plunger.



· Always use a protective cap to protect cylinder screws.





The entire cylinder saddle must come in contact with the load to ensure the cylinder is level, even if objects move,





 No part of the body should come in contact with the lower part of the workbench. Must support securely with a solid.





Do not bring hydraulic products close to the temperature and flames over 65 degrees, (Use a cover)

#### Hoses and Couplers





 When removing the coupling, put on a dust cap, clean both sides, and reconnect.





 When the hose is separated from cylinder, the cylinder rod is fully operated and cylinder pressure should be maintained using stop valve and safety valve.

#### Hoses and Couplers





Do not place hoses between workbenches





• Do not hold the hose when carrying hydraulic products





• The minimum radius is 115m to prevent hose bending, and do not let vehicles drive over or heavy objects fall onto the hose.

#### Precautions before operation



- · Be sure to read and understand the user manual and safety precautions before operation.
- Do not stand still in the workplace.
- · Lift slowly and check frequently.
- · Anticipate problems and seek countermeasures.

#### | Hydraulic System | Basic composition of pump, cylinder, and hydraulic control

#### Basic composition of pump, cylinder, and hydraulic control

- Examples of system configurations using TECPOS hydraulics:
- · System configuration of production process, equipment maintenance, process and press lifting.
- TECPOS provides optimal hydraulic systems for any application with various configurations to suit your specific work environment and conditions

#### Hand pump system

- · Cylinder drive system using the most basic hand pump.
  - ① Cylinder (for single-acting and double-acting) : Hydraulic drive
  - ② Hand pump: Converts fluid energy into mechanical energy (Max.700bar)
  - ③ GAUGE BLOCK : Gauge-coupling block
  - (4) Gauge(ø 64mm  $\times$  1000bar) : Measure pressure or force
  - ⑤ Hose : Fluid transfer
  - 6, 7 Coupler(TBC381M/F): Connector for hose and cylinder
  - (8) TCV 2000(Manual Valve) : Controls double-acting cylinders



#### Electric pump system

- · Electric pump system powered by electricity.
- ① Electric Pump (TMP Series) : Pump that uses electric energy
- ② Double-acting cylinder (TPE Series) : Controls movement up and down with hydraulic power
- ③ Solenoid (Solenoid Control Valve: TSV 4300): Automatically drives electric pump through electric devices
- ④ Gauge adapter : Gage coupling adapter

- ⑤ Gauge : Measures pressure or force
- 6 Hose : Fluid transfer
- ⑦ Coupler (TBC381M)
- (8) 2-Port Manifold : Two cylinders driven by one pump
- ③ Stop Valve (Flow and cylinder control valves) : Opens and closes unused ports



#### Electric pump system(cart type)

- A system that operates a number of cylinders and equipped with a cart for easy movement.
- TECPOS's unique system is designed to drive individual strokes or multiple cylinders (simultaneous stroke) using a 4Port-Double Manifold.
- ① Electric Pump (TMP Series) : Pump that uses electrical energy
- ② Double-acting solenoid TSV4300(Solenoid Control Valve)
- 3 4-Port Double Manifold
- ④ Stop Valve(Flow and cylinder control valves)
- ⑤ Gauge : Measures pressure or force
- 6 Double-acting cylinder (TPE Series)
- ⑦ Pilot Check Valve



# Hydraulic Cylinders TECPOS Cylinder Series

#### \* Check below when selecting hydraulic cylinders

- Check load of products and select a suitable model
- Check stroke (length of which the rod travels) piston rod, and select a model
- Calculate space of work place, select cylinder height, check cylinder outer diameter, and select a model



## **Single Acting - Cylinders**

How to understand Model No. :	T	<u>S</u> .	- 5	5	→ Stroke, 50mm → Capacity, 5ton → Single Acting
					• TECPOS

- TECPOS Single-Acting Cylinders use a spring return method, whereby a high-load compression spring keeps the piston moving forward and backward rapidly and ensures a long product life. They are composed of a strong head and a strong plunger to satisfy demands of the industry.
  - Capacity 5–100ton
     Stroke 50~200mm
     Maximum Pressure 700bar
     Single-acting Cylinder-Spring return
  - · Increases work efficiency using a reinforcing spring



#### Specifications

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎝²)	Oil Capacity (cc)	Retracted Height	Extended Height
<b>T</b> C CC		50		25	A	B
15-55		50		35	134	184
TS-510	5	100	6.38	70	184	284
TS-515	(45kN)	150		106	234	384
TS-520		200		140	284	484
TS-105		50		76	133	183
TS-1010	10	100	15 0	152	183	283
TS-1015	(108kN)	150	13.2	228	233	383
TS-1020		200		304	283	483
TS-255	25 (236kN)	50		166	165	215
TS-2510		100	33.18	332	215	315
TS-2515		150		498	265	415
TS-2520		200		664	315	515
TS-305		50		220	172	222
TS-3010	30	100	44 10	440	222	322
TS-3015	(315kN)	150	44.18	660	272	422
TS-3020		200		880	322	522
TS-505		50		355	173	223
TS-5010	50	100	70.00	710	223	323
TS-5015	(505kN)	150	70.88	1070	273	423
TS-5020		200		1425	323	523
TS-10010	95	100	1227	1330	226	326
TS-10015	(947kN)	150	132./	1991	286	436





 $\ensuremath{\mathbbmm{\times}}$  The above options are subject to change without prior notice.

Capacity(ton)	5~100			
Stroke(mm)	50 ~ 200			The summer of the second se
Maximum Pressure(bar)	700			and the second
Hydraulic Couper	TBC 381F(PT3/8)			
Pump	To use 30% more than oil capacity of Cylinders	TS A	TSC B	

#### E See pages 30, 32~37 for composition of cylinder pump set

Cylinder Out Dia,	Cylinder Bore Dia,	Piston Rod Dia.	Base to Inlet port	Piston rod Internal Thread	Piston rod Thread Length	Head Dia	Head Length	Both Interval	Collar Thread	Collar Thread Length	Weight (kg)	Pump													
С	D	E	F	G	Н	J	K	L	М	N															
											1.1														
20	28 5	25	25	3/4-16	16	24	0		11⁄2-	20	1.4														
20	20.5	25	25	UNF	10	24	9	-	16UN	29	1.7														
										2.1															
											2.4														
50	4.4	44 38 20 <sup>1-8</sup> 19 36 8 -				3.2	1B or 08																		
28	44		-	-	-	-	4.0																		
											4.8	-													
		57 35													7										
00	65		57	57	57	57	57	57	57	57	57	57	57	57	57	25	M38×2.0	26	40	10	_	_	_	8.9	
88	65															35		26	49	10	-	-	-	10.8	
											12.7	1C or 17													
											9.7	1D or 00													
100	75	65	25	M44×20	20	50	10				12.3	16 OF 08													
102	/5	co	30	M44×2.0	30	28	12	-	-	-	14.9	10 - 17													
											17.5	IC of 17													
											15.4	1B or 08													
107	05	05	25		15	74 5	C	45	-	-	19.5														
127	95	65	30	MIUXI.5	15	74.5	0	45			23.5	1C or 17													
																			27.5	-					
165	100	120	110			15	00					32.7													
105	130	110	40	WITUX 1.5	15	98	Ø	60	-	_	41.1	25													

\* It can be produced by various customizing.

## **Double Acting - Cylinders**

How to understand Model No. : DC - 10 15 Stroke, 150mm Capacity, 10ton Double-Acting Cylinder TECPOS

TECPOS Double-Acting Cylinders are suitable for maintenance of construction, shipbuilding and mining equipment facilities. They provide higher process efficiency with faster up/down than single-acting cylinders. The piston and cylinder boast excellent corrosion and abrasion resistance through internal surface polishing treatment and chrome plating with TECPOS's integrated technology.

**Specifications** 

- Capacity 5~1000ton
   Stroke 150~300mm
   Maximum Pressure 700bar
- Hydraulic Coupler TBC 381F(PT3/8), TBC 382F(PT3/8)







#### **TDC-515** 150 144 5 9.6 (45kN) **TDC-530** 288 300 **TDC-1015** 150 228 10 15 (108kN) **TDC-1030** 300 456 TDC-2515 150 497.7 25 33.2 (236kN) **TDC-2530** 300 995.4 **TDC-3015** 150 662.6 30 44.2 (315kN) **TDC-3030** 300 1325.2 **TDC-5015** 150 1063 50 70.8 (505kN) **TDC-5030** 300 2126 **TDC-10015** 1990 150 95 132.7 (947kN) **TDC-10030** 300 3980 **TDC-15015** 150 3207 150 213.8 (1495kN) TDC-15030 300 6414 **TDC-20015** 150 4253 200 283.5 (1982kN) TDC-20030 300 8506 **TDC-30015** 150 6506 300 433.7 (3033kN) TDC-30030 13012 300 **TDC-50015** 150 10603 500 706.8 (4944kN) TDC-50030 300 21206 TDC-80015 17462 150 800 1164.2 (8143kN) **TDC-80030** 300 34924 TDC-100015 150 21783 1000 1452.2 (10157kN) TDC-100030 300 43566

\* The above options are subject to change without prior notice.

Capacity(ton)	5~1000
Stroke(mm)	150 ~ 300
Maximum Pressure(bar)	700
Hydraulic Couper	TBC 381F(PT3/8), TBC 382F(PT3/8)

Faster Retraction under hydraulic power
 Removeable plunger caps

Retracted Height	Extended Height	Cylinder Out Dia.	Cylinder Bore Dia,	Piston Rod Dia,	Coller Thread	Coller Thread Length	Piston rod Thread Length	Base to Inlet Port	Head Thread Length	Head Dia	Head Length	Top Base to Inlet Port	Weight (kg)	Pump			
А	В	С	D	E	F	G	н	I.	J	к	L	М					
285	435	45	25	25	M45	25	M20	25	25	25	25	40	3.1				
433	733	45	22	25	× P1.5	25	× P1.5	30	25	22	22	40	4.4				
314	464			20	M60	20	M28	20		10	47	45	6.0	1B or 08 Double			
464	764	62	44	30	× P2.0	30	× P2	30 32	50 52	32	48	47	45	8.7			
363	513				M85		M40						14.0				
513	813	88	65	45	× P2.5	50	× P2	36	40	/4	56	70	19.4	1C or 17			
398	548				M100		M50									22.4	Double
548	848	105	75	55	× P2.5	55	× P2	40	48	87	70	75	30.4				
343	493				M127		M40							28.5	25		
493	793	128	95	65	× P2.5	45	× P2	45	35	62	23	70	39.2	Double			
352	502				M175		M65							58.6			
502	802	178	130	100	× P3	50	× P3	45	38	95	22	75	82.2				
381	531				M215		M70						95				
531	831	218	165	120	× P3.5	55	× P4	50	55	109	26	85	125.6				
400	550				M245		M80							129	3B Double		
550	850	248	190	135	× P4	60	× P4	55	60	119	30	90	169	Double			
433	583				M315		M80						230				
583	883	315	235	170	× P4	70	× P4	55	80	165	33	110	298				
475	625	105	200	045			M90	75	70			120	490	3HP-			
625	925	405	300	215	-	-	× P4	/5	70	184	35	130	590	Double			
550	700						M150						782	5HP-			
700	1000	525	385	280	-	-	× P4	100	80	234	45	140	989	Double			
610	760		400										1216	5HP-			
760	1060	585	430	-	-	-	-	-	-	-	-			-	1533	Double	

#### $\equiv$ See pages 30, 32~52 for composition of cylinder pump set

\* It can be produced by various customizing.

## **Shorty Cylinders**

How to
understand
Model No. :

- All cylinders provided by TECPOS prevent surface dents, lower scratch rate, with the excellent durability and long lifespan of high-frequency hardening.
  - Capacity 10~200ton
     Hydraulic Coupler TBC 381F(PT3/8)
     Maximum Pressure 700bar
     Stroke 25~50mm
  - Spring return



Capacity(ton)	Stroke(mm)	Maximum Pressure(bar)	Hydraulic Couper		
10 ~ 200	25 ~ 50	700	TBC 381F(PT3/8)		

• Compact, flat design for use where other cyilnders will not fit.





#### Specifications

Model	Cylinder Capacity ton	Stroke (mm)	Cylinder Effective Area	Oil Capacity	Retracted Height	Extended Height	Cylinder Out Dia,	Cylinder Bore Dia.	Piston Rod Dia.	Base to Inlet Port	Weight (kg)	Pump
	(kN)		(Cm²)		А	В		D		F		
TSSC-1025	10 (105kN)	25	15.2	38	80	105	68	44	38	17	2.2	
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	1P or 09
TSSC-3025	30 (308kN)	25	44.2	111	80	105	104	75	65	17	4.9	10 01 08
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	124	90	78	17	7.5	
TSSC-5050	45 (444kN)	50	63.6	318	109	159	124	90	78	17	9.5	
TSSC-10050	95 (928kN)	50	132.7	663	139	189	165	130	100	22	20.2	
TSSC-15050	150 (1406kN)	50	201.06	1005	170	220	208	160	135	28	40	1C or 17
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**

How to understand Model No. :

- TECPOS' Low Profile Cylinders are designed for narrow spaces or limited heights with minimum height and optimum stroke.
  - Capacity 5~150ton
     Hydraulic Coupler TBC 381F(PT3/8)
     Maximum Pressure 700bar
     Stroke 6~16mm
  - Spring return



Capacity(ton)	Stroke (mm)	Maximum Pressure(bar)	Hydraulic Couper		
5 ~ 150	6~16	700	TBC 381F(PT3/8)		

• Compact, flat design for use where other cyilnders will not fit.



#### Specifications

( Model	Cylinder Capacity ton	Stroke (mm)	Cylinder Effective Area	Oil Capacity	Retracted Height	Extended Height	Cylinder Out Dia.	Cylinder Bore Dia,	Piston Rod Dia,	Plunger to Base	Cylinder Dimension	Base to Inlet Port	Weight (kg)	Pump
	(kN)		(cm²)	(00)	А			D	Е		G	Н		
TSLC-56	5 (42kN)	6	6.16	3.7	40	46	59	28	25	21.5	42	21	0.7	
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	1B or 08
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	
TSLC-7516	75 (726kN)	16	103.87	164	79	95	165	115	85	70	140	21	11.2	1C
TSLC-10016	90 (885kN)	16	126.7	203	86	102	179	127	95	77.5	152	25	14.3	17
TSLC-15016	150 (1405kN)	16	201	317	100	116	215	160	115	97	190	24	25	

HYDRAULIC CYLINDER

\* It can be produced by various customizing.

## **Single -Acting Center hole Cylinders**

- TECPOS Single—Acting Center Hole Cylinders are ideal for tensioning cable anchor bolts and various other applications on industrial sites.
  - Capacity 10~100ton
     Hydraulic Coupler TBC 381F(PT3/8)
     Maximum Pressure 700bar
     Stroke 41~150mm
  - Single-acting Cylinder Spring return



	Spring return type
	PT 3/8-19

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (cm²)		
TCH-128	12 (122kN)	8	18.4		
TCH-1241	12 (122kN)	41	17.6		
TCH-1276	12 (122kN)	76	17.6		
TCH-2050	20 (221kN)	50	31.67		
TCH-20150	20 (221kN)	150	31.67		
TCH-3063	30 (333kN)	63	47.7		
TCH-30150	30 (333kN)	150	47.7		
TCH-6075	60 (611kN)	75	87.46		
TCH-60150	60 (611kN)	150	87.46		
TCH-10075	100 (1000kN)	75	143.13		

## **Double - Acting Center hole Cylinders**

- TECPOS Double-Acting Center Hole Cylinders are ideal for tensioning cable anchor bolts and various other applications on industrial sites.
  - Capacity 10~100ton
     Hydraulic Coupler TBC 381F(PT3/8)
     Stroke 156~254mm
     Maximum Pressure 700bar





#### **Specifications**

Model	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (㎝)
TDCH-12254	12 (122kN)	254	14.4
TDCH-30210	30 (333kN)	210	44.2
TDCH-60156	60 (611kN)	156	87.46
TDCH-100168	100 (1000kN)	168	140.39

T

How to understand Model No. :



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

Capacity(ton)	Stroke(mm)	Maximum Pressure(bar)	Hydraulic Couper	LILLY THE HOUSE	
10 ~ 100	41 ~ 150	700	TBC 381F(PT3/8)		P
			·		

Design for use with screws, rods, cables and pullers

Oil Capacity	Retracted Height	Extended Height	Cylinder Out Dia,	Center Hole Dia.	Piston Rod Thread	Piston Rod Thread Length	Base to Inlet Port	Cylinder Bore Dia,	Piston Rod Dia.	Head Dia.	Head Length	Coller Thread	Coller Thread Length	Weight (kg)	Pump
(00)	А	В	С	D	Е		G	Н	J	К	L	М	N		
14.7	55	63	69	17.3	3/4"-16UN	16	20	54	35	-	-	2 3/4-16	20	1.7	
70.5	121	162	69	20	-	-	25	54	35	-	2	-	-	2.7	
133.7	184	260	69	20	-	-	25	54	35	-	2	2 3/4-16	30	4.5	1B
158.4	162	212	98	27	<sup>1</sup> <sup>9</sup> <sub>16</sub> - 16	24	20	73	54	53	6	-	-	7.5	08
475	295	445	98	27	<sup>1</sup> <sup>9</sup> <sub>16</sub> - 16	24	25	73	54	53	7	-	-	16	
300.6	179	242	115	33	M48×P1.5	20	21	90	65	63	11	-	-	10.7	
716	320	470	115	33	M48×P1.5	20	24	90	65	63	11	-	-	20.2	
656	249	324	158	54	M70×P2.0	28	30	125	95	92	15	-	-	27.6	1C
1311	334	484	158	54	M70×P2.0	28	30	125	95	92	15	-	-	38	17
1049	254	329	216	80	M103×P2.0	28	35	170	130	127	15	-	-	51.5	

How to understand Model No. :

TDCH-1	0254
	• Stroke, 254mm     • Capacity, 10ton     • Double -Acting Center Hol     • TECPOS

Capacity(ton)	Stroke(mm)	Maximum Pressure(bar)	Hydraulic Couper
10 ~ 100	156 ~ 254	700	TBC 381F(PT3/8)

Design for use with screws, rods, cables and pullers

Oil Capacity (cc)	Retracted Height	Extended Height	Cylinder Out Dia.	Center Hole Dia,	Coller Thread	Coller Thread Length	Base to Inlet Port	Cylinder Bore Dia,	Piston Rod Dia.	Head Dia,	Head Length	Top Base to Inlet Port	Weight (kg)	Pump
				D			G	Н				М		
365	406	660	70	20	M32×P1.5	20	50	54	40	36	12	55	9.2	1B-D 08-D
928	425	635	115	33	M54×P2.5	50	55	90	75	73	22	83	27.5	1C-D
1365	380	536	158	54	M74×P2.0	36	55	125	95	89	29	75	42	17-D
2358	382	550	216	80	M116×P3.0	50	65	170	140	135	24	70	79	50

 $\ensuremath{\mathbbmm}$  It can be produced by various customizing.

## **Aluminum Cylinders**

How to understand Model No. : TAR-2050 Stroke, 50mm Capacity, 20ton Aluminum Cylinder TECPOS

- TECPOS carefully selects only the best quality materials for their Aluminum Cylinders, which are light compared to steel cylinders for convenient transportation. Aluminum has strong corrosion resistance and is safe from sparks even when there is a risk of explosion. The piston and cylinder inner walls of Aluminum Cylinders maintain excellent wear and corrosion resistance.
  - Single-acting Cylinder Spring return Half the weight of steel cylinders





•TECPOS Aluminum cylinders are almost half the weight of steel cylinders.

#### Specifications

Model	Cylinder Capacity ton (kN)		Cylinder Effective Area (cm²)	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			
					А	В	С	D	E	F	G	Н	J	K	L		
TAR-2050		50		145	150	200										3.2	
TAR-20100	20 (198kN)	100	28.3	290	200	300	89	60	54	28	M6	10	46	25	7	4.1	1B
TAR-20150	(120111)	150		435	250	400										4.8	or
TAR-3050		50		220	168	218										5.0	08
TAR-30100	30 (308kNI)	100	44.18	440	218	318	108	75	65	35	M6	15	57	36	7	6.3	
TAR-30150	(500KN)	150		660	268	418										7.5	1C or 17
TAR-5050	= 0	50		355	182	232										8.7	1B or 08
TAR-50100	50 (494kN)	100	) 70.88	708	232	332	134	95	85	35	M10	15	75	45	9	9 10.2	1C or
TAR-50150	(12 111)	150		1063	282	432										12.9	
TAR-10050		50		660	193	243										16.5	17
TAR-100100	95 (928kN)	100	132.73	1320	243	343	189	130	110	40	M10	15	98	60	8	20.6	
TAR-100150	(928kN) 150	150		1980	293	443										23.4	
TAR-15050		50		1005	208	258										27	25
TAR-150100	150 (1406kN)	100	201.06	2010	258	358	238	160	135	45 M10	M10 20	20	119	75	8	33.4	
TAR-150150	(1100104)	150		3016	308	458									39.8	50	

\* The above options are subject to change without prior notice.

## **Lock Nut Cylinders**

How to understand Model No. :

Spring return type

- The lock nut cylinders of TECPOS can maintain and support lifted load even while the hydraulic pressure is released and fastening/dismantling of nuts are easy through precise screw processing. When the stroke reaches the limit, operators are able to check using piston, and prevent excessive advance of piston caused by operator's carelessness.
  - Even when hydraulic pressure is removed, lock nut can endure load and ensure safety.
  - Spring return



G I F F	TLN-100~200
	TLN-30,50
	PT 3/8-19

• Cylinders are load return and spring return.

200~230

• Particularly use in the building industry to support a bridge during construction.

700

#### Specifications

30~200

	Cylinder Capacity ton (kN)		Cylinder Effective Area (㎝)	Oil Capacity (cc)	Retracted Height	Extended Height B	Cylinder Out Dia, C	Cylinder Bore Dia, D	Base to Inlet Port E	Piston Bore Dia, F	Head Dia. G	Piston Rod Interval Thread H	Piston Rod Thread Length		Lock Nut Height L		Pump
TLN- 30200	30 (309kN)	200	44.1	883	365	565	102	75	35	Tr68	60	M30x2.0	20	15	35	23	1C
TLN- 50200	50 (496kN)	200	70.8	1418	385	585	127	95	40	Tr88	80	M38x2.0	25	15	40	38	17
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	20
TLN- 200230	200 (1983kN)	230	283.5	6521	552	782	255	190	65	Tr165	152	-	-	32	80	224	ЗB

TBC 381F(PT3/8)

\* It can be produced by various customizing.

## **Propeller Fitting Jacks**

• Hydraulic jack for attaching/detaching propellers to ships can be fastened with maximum force in a narrow space.

• It can be connected or separated into several or individual for different purposes.





Capacity(ton)	50 ~ 200
Strok(mm)	10~20
Maximum Pressure(bar)	700 ~ 2000

• For use of mounting, demounting of marine propellers

#### Specifications

Model	Cylinder Capacity ton	Stroke (mm)	Cylinder Effective	Max Pressure (bar)	Jack Height	Cylinder Bore Dia,	Cylinder Out Dia.	Extended Height
	(KN)		Area(cm <sup>2</sup> )				С	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



#### 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

\* The above options are subject to change without prior notice.

# Tip >>>

- Q. When using a hand pump, the pressure does not rise.
- **A.** First, check the handle cock on the right side. The pressure valve might be open. Operate the lever with the valve closed (to hose direction).

#### Q. When using a hand pump, the body swells up.

**A.** One second! Have you opened the air vent at the bottom of the hand pump? When using a hand pump, make sure to check the air valve.

#### Q. Hydraulic oil is leaking onto the upper part of the cylinder.

- A. The piston may be damaged due to long-term use, or the cover nut or seal may be damaged.
  - The sealing may be damaged.
  - · After inspection, the piston may be replaced depending on the condition.

#### Q. The cylinder stroke rises but does not descend.

- A. The cause may be that the oil is circulating rather than draining out due to aging or damage to seals, such as O-ring and backup ring. Since the seals are consumable parts, they must be replaced periodically.
- Cylinder inflation If the cylinder body is not flat and is expanded and bent, it may be due to aging of the cylinder (piston) due to long-term use or overloading.

If so, stop operation immediately and contact the headquarters or distributor.

Q. The cylinder looks fine, but it can't bear the load and the piston goes down.

A. One second! Have you used more than the cylinder capacity?

Check if the coupling is correct. There may be a problem with the pressure retaining function of the pump. Do not disassemble. Contact your nearest service center for assistance.

Based on our wealth of expertise, TECPOS Hydraulic Pumps have succeeded in reducing weight through various types of pumps, aluminum bodies and small pumps. The technology allows fast and easy operation by reducing the number of handle operations using a high/ low pressure two-speed handle.

## Pump selection

- How to select an appropriate pump
  - 1st Stage : Selection of the most suitable cylinder for operation
  - 2nd Stage : Appropriate oil output and oil tank capacity pump suitable for cylinders
  - 3rd Stage : Pump selection with valves suitable for intended use of the cylinder

#### Considerations when selecting a pump

- Required maximum working pressure (bar)
- Required oil capacity (Oil volume per handle stroke for hand pump, liters per minute for electric pump (low/high pressure))
- · Selecting the right pump for your operation
- ① Manual pump (hand or foot) : Easy portability, use in places where power supply is not available
- 2 Electric pump: Voltage check and battery type pump
- ③ Air pump: Place where compressor is located
- ④ Ultra-high pressure pump: Working conditions with high output requirement
- (5) Is pump portability/mobility important to pump selection?
- 6 Does it require long-term use and a large amount of work?
- ⑦ Frequency of use/If there used a lot, a large-capacity oil tank for oil cooling is necessary. If cylinder displacement is large, a pump with sufficient capacity is required for full up/down movement of the cylinder piston.





Technology Power System

## Hydraulic Pumps TECPOS Hydraulic Pumps



Hand pumps provided by TECPOS can be composed of gauge, coupler, hose, and double acting type to suit work purpose.



• To order double acting hand pump add the letter "D" to the model No. ex) ESP-08-D

#### Specifications

Model	Usable Oil Capacity (cc)	Oil Tank Capacity (cc)	Volume F (cc/c	Per Stroke cycle)	Piston Stroke	Max. Hand Effort	Material	Weight (kg)	Working Pressure
			High	Low	(mm)	(kg)			(bar)
ESP-05	500	800	2.47 (at 700bar)	20.9 (at 20bar)	26	44		4.6	
ESP-08	800	1000	2.47 (at 700bar)	20.9 (at 20bar)	26	35	Aluminum	5.3	700
ESP-05S	500	800	2.37 (at 700bar)	-	25	44		4.4	



Usable Oil Capacity(cc)	Volume Per St	Volume Per Stroke(cc/cycle)					
	High	Low	Pressure(bar)				
1700 ~ 2500	2.47 ~ 2.94	32.7 ~ 41	700				

• To order double acting hand pump add the letter "D" to the model No. ex) ESP-08-D

#### Specifications

Model	Usable Oil Capacity (cc)	Oil Tank Capacity (cc)	Volume Per Stroke (cc/cycle)		Piston Stroke	Max. Hand Effort	Material	Weight (kg)	Working Pressure
			High	Low	(mm)	(Kg)			(bar)
ESP-17	1700	2000	2.47 (at 700bar)	32.7 (at 20bar)	26	35	Aluminum	7.2	700
ESP-25	2500	2800	2.94 (at 700bar)	41 (at 20bar)	26	38.5	Aluminum	8.6	700

HYDRAULIC PUMPS

 $\ensuremath{\mathbbmm}$  It can be produced by various customizing.



**ESP-50** 



Usable Oil Capacity(cc)	Volume Per Sti	Volume Per Stroke (cc/cycle)						
	High	Low	Pressure(bar)					
5000	2.94	41	700					

•To order double acting hand pump add the letter "D" to the model No. ex) ESP-50-D

#### Specifications

Model	Usable Oil Capacity	Oil Tank Capacity (cc)	Volume Per Stroke (cc/cycle)		Piston Stroke	Max. Hand Effort	Material	Weight (kg)	Working Pressure
	(cc)		High	Low	(mm)	(kg)		(19)	(bar)
ESP-50	5000	5500	2.94 (at 700bar)	41 (at 20bar)	26	38.5	Aluminum (Pump Boby Only)	14.5	700

- Eco-friendly smart hydraulic hand pump without air valve
- Hydraulic hand pump
  - · Equipped with unloading valve to reduce operator fatigue
  - · Air vent-free functionality prevents oil leakage
  - · Equipped with automatic internal pressure relief function within the oil container
- ESP Series
  - Oil capacity used : 500~5000cc
  - Flow at rated pressure : High 2.47~2.94cc/stroke Low 20.9~41.0cc/stroke
  - Max pressure : 700bar





ESP-05,08



ESP-17, 25, 50

**Pressure Gauge (Option)** 



ESP-17, 25, 50

**Manual Valve (Option)** 



**THP-1AB** 





THPA-1B







Usable Oil	Volume Per Sti	Maximum	
Capacity(cc)	apacity(cc) High		Pressure(bar)
250 ~ 1600	0.5 ~ 2.0	3.0 ~ 16.5	700

•To order double acting hand pump add the letter "D" to the model No. ex) THPA-1B-D

#### Specifications

Model	Usable Oil Capacity (cc)	Volume Per Stroke (cc/cycle)		Piston Dia.(mm)		Piston Stroke	Max. Hand Effort	Material	Weight (ka)	Working Pressure
		High	Low	High	Low	(mm)	(kg)			(bar)
THP-1AB	250	0.5 (at 700bar)	3.0 (at 20bar)	8	20	10	29		2.5	
THPA-1B	800	2.0 (at 700bar)	13.0 (at 20bar)	11	28	20.5	44	Aluminum	5.3	700
THPA-1C	1600	2.0 (at 700bar)	16.5 (at 20bar)	11	32	20.5	37		7	

## **Double-Acting Hydraulic Hand Pumps**

TECPOS's hand pump is a double-acting pump with a manual valve.



#### Specifications

Model	Usable Oil Capacity (cc)	Volume Per Stroke (cc/cycle)		Piston Dia.(mm)		Piston Stroke	Max. Hand Effort	Material	Weight (kg)	Working Pressure
		High	Low	High	Low	(11111)	(Kg)			(bar)
ESP-08-D	800	2.47 (at 700bar)	20.9 (at 20bar)	11	32	26	35	Aluminum	6.8	
THPA-1B-D	800	2.0 (at 700bar)	13.0 (at 20bar)	11	28	20.5	37	Aluminum	6.8	700
THP-3B	10000	4.7 (at 700bar)	85 (at 20bar)	14	60	30	50	Steel	38	

\* It can be produced by various customizing.

## **Ultra-High Pressure Hydraulic Hand Pumps**



ESP-180, 250, 280





ESP-180L, 250L, 280L



#### **Specifications**

O Model Ca	Oil Tank Capacity	Maximum Pressure	Volume Per Stroke (cc/cycle)		Piston Dia.(mm)		Piston Stroke	Max. Hand Effort	Material	Max. Weight
	(CC)	(bar)	High	Low	High	Low	(mm)	(Kg)		(Kg)
ESP-180	2000	1800	0.8cc (at1800bar)	20cc (at20bar)	б	36	26	33.9		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	Aluminum	7.7
ESP-180L	4000	1800	0.8cc (at1800bar)	20cc (at20bar)	6	36	26	33.9	Aluminum	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
# **Ultra-High Pressure Hydraulic Hand Pumps**



#### Specifications

Model	Oil Tank Capacity	Working Pressure	Volume F (cc/c	Per Stroke cycle)	Piston [	Dia.(mm)	Piston Stroke	Max. Hand Effort	Max. and Effort Material We	
	(cc)	(bar)	High	Low	High	Low	(mm)	(kg)		(kg)
ESP-1800	1800	1800	0.8	20	6	36	26	35	Aluminum	8.1
ESP-2500	1800	2500	0.8	20	6	36	26	45	Aluminum	8.1
ESP-2800	1800	2800	0.8	20	6	36	26	51	Aluminum	8.1





Model	Oil Tank Capacity	Working Pressure	Volume F (cc/c	Per Stroke cycle)	Piston [	Dia.(mm)	Piston Stroke	Max. Hand Effort	Material	Weight	
	(cc)	(bar)	High	Low	High	Low	(mm)	(kg)	Aluminum	(kg)	
ESP-1800L	4000	1800	0.8	20	6	36	26	35	Aluminum	13	
ESP-2500L	4000	2500	0.8	20	6	36	26	45	Aluminum	13	
ESP-2800L	4000	2800	0.8	20	6	36	26	51	Aluminum	13	

# **Air Driven Hydraulic Foot Pump**

#### ▷ Air Foot Pump











#### Specifications

Model	Air Pressure	Working	Output Flow Rate( l /mm)		Dim	nensions (r	mm)	Oil Tank	Weight
	(bar)	(bar)	High	Low	L	W H		(ℓ)	(kg)
TAFP-700	7	720	1.0	1.8	275	165	175	2	7.3
TAFP-700-TURBO	7	720	1.0	3.0	275	105	175	2	8.2

• Option : Oil tank can be customized



**TAFP-700** 



# **Air Motor Hydraulic Pumps**







Model	Туре	Pressure (ba	ssure Capacity Output Flow Rate (bar) ( ℓ /mm)		Air–in Pressure		Air Motor		Usable Oil Capacity	Oil Tank Capacity	Weight	
		High	Low	High	Low	(bar)	HP	Vanes	RPM	(liter)	(liter)	(149)
TAMP 1-M	Manual											
TAMP 1-S	Single Solenoid	720	70	0.6	4/3.3	5~8	1	4	3000	11	15.8	50
TAMP 1-2S	Double Solenoid											

# **Hydraulic Foot Pumps**









Lisable Oil Canacity (cc)	Volume pe	r stroke(cc/stroke)
	High	Low
500 ~ 1600	2.0 ~ 2.47	13.0 ~ 20.9

#### Specifications

Model	Usable Oil	Maximum	Volume pe	r stroke(cc)	Piston D	Dia.(mm)	Piston Stroke	Weight	
Model	Capacity(cc)	Pressure(bar)	High	Low	High	Low	(mm)	(kg)	
ESPF-05	500	700	2.47 (at 700bar)	20.9 (at 20bar)	11	32	26	6.7	
THPF-1B	800	700	2.0 (at 700bar)	13.0 (at 20bar)	11	28	20.5	4	
THPF-1C	1600	700	2.0 (at 700bar)	16.5 (at 20bar)	11	32	20.5	8	



#### To use 30% more than cylinder oil capacity

#### Specifications

Model	Usable Oil 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

\* The above options are subject to change without prior notice.

# **Hydraulic Mini Pumps**

- TECPOS' compact pump is a fast and powerful portable hydraulic pump. With a light and compact design, good portability, single-acting hydraulic tools and cylinders can be used together for better efficiency.
  - Small, lightweight
- Prevent a Fire by using PCB
- Switch is located on bodyPortability
- Control with remote controller · Control and set pressure to suit job application ·

#### ▷ TDPM 1/3 (18V 4.0Ah Li-ion, DC Type)







#### Specifications

Madal	Valve	Purpose of	Working Pr	essure(bar)	Out-put Fl	low(ℓ/min)	Oil Tank	Voltage(V/)	Weight
WOUEI	Туре	Use	High	Low	High	Low	Capacity(L)	Voltage(V) 18V 4.0Ah 1EA (Li-ion)	(kg)
TDPM-1/3-C	Cock	Hydraulic Tool							8.4
TDPM-1/3-S		Hydraulic Tool							8.6
TDPM-1/3-SA	Single	Crimping, Cutting	700	20	0.2	2.0	2	18V 4.0Ah 1EA (Li-ion)	8.6
TDPM-1/3-SH	Solenoid	Hydraulic Tool	-						8.6
TDPM-1/3-HS		Indirect live- line work							8.7

#### ▷ **TDPH 1/3** (18V 5.0Ah Li-ion, DC Type)





#### Specifications

Model	Valve	Purpose of	Working Pr	essure(bar)	Out-put Fl	ow(ℓ/min)	Oil Tank	Voltago(V)	Weight
MOUEI	Туре	Use	High	Low	High	Low	Capacity(L)	Voltage(V) 18V 5.0Ah (Li-ion Battery)	(kg)
TDPH-1/3-C	Cock	Hydraulic Tool							8.4
TDPH-1/3-S		Hydraulic Tool							8.6
TDPH-1/3-SA	Single	Crimping, Cutting	700	20	0.2	2.0	1.5	18V 5.0Ah (Li-ion Battery)	8.6
TDPH-1/3-SH	Solenoid	Hydraulic Tool							8.6
TDPH-1/3-HS		Indirect live- line work							8.7

· Excluded hose, remote control switch, battery weight

\* It can be produced by various customizing.

# **Hydraulic Mini Pumps**

- TECPOS' compact pump is a fast and powerful portable hydraulic pump. With a light and compact design, good portability, single-acting hydraulic tools and cylinders can be used together for better efficiency.
  - Small, lightweight

Switch is located on body

- Portability
- Control with remote controller · Control and set pressure to suit job application

#### ▷ TMPM 1/2 (220∨ Single, AC Type)





#### **Specifications**

Model	Valve	Purpose of	Working Pr	essure(bar)	Out-put Fl	ow(ℓ/min)	Oil Tank		Weight
woder	Туре	Use	High	Low	High	Low	Capacity(L)	voliage(v)	(kg)
TMPM-1/2-S	Single	Hydraulic Tool	700	20	0.2	25	2	AC220V 50/60Hz	0 E
TMPM-1/2-SA	Solenoid	Crimping, Cutting	700	20	0.3	2.5	2	(Single)	0.5

#### ▷ TMPH 1/2 (220∨ Single, AC Type)







#### **Specifications**

Model	Valve	Purpose of	Working Pressure(bar) Out-put Flow( 2 /r		ow(ℓ/min)	Oil Tank	Voltage(V/)	Weight		
Woder	Туре	Use	High	Low	High	Low	Capacity(L)	Voltage(V) AC220V 50/60Hz (Single)	(kg)	
TMPH-1/2-C	Cock	Hydraulic								
TMPH-1/2-S	Single	Tool	700	20	0.3	2.5	1.5	AC220V 50/60Hz (Single)	8.4	
TMPH-1/2-SA	Solenoid	Crimping, Cutting								

• Excluded hose, AC code, remote control switch weight

How to understand Model No. : TMP2-2S-P-P/S

# **Electric Hydraulic Pumps**

-→ Pressure-Switch Option → Pilot Check v/v Option → Double Solenoid → Horsepower





TMP 1/3-M

#### Specifications

Model	Tvpe	Pressure (b	Capacity ar)	Output F ( ℓ /	'low Rate min)	Voltage	Ele	ctric M	otor	Usable Oil	Jsable Oil Oil Tank Capacity Capacity	
woder	туре	High	Low	High	Low	(V)	(Kw)	(Pole)	(RPM)	(liter)	(liter)	(kg)
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





#### Specifications

Model	Time					[	Dimensior					
	туре	А	В	С	D	E	F	G	Н	J	K	L
TMP 1/3	Manual	215	105	205	160	a10	121	402	275	220	177	390
	Single Solenoid	515	105	295	100	010	131	402	3/3	229	1//	315

• For use of both single and double acting cylinders. • To order solenoid valve add the letter "S" to the model No. ex)TMP2-S

S

# **Electric Hydraulic Pumps**





TMP 1/2-M M TYL TMP 1/2-S XA TMP 1/2-25 4

t,

**TMP 1/2-M** 

#### **Specifications**

Model	Tupo	Pressure (b	Capacity ar)	Output F ( ℓ /	low Rate min)	Voltage	Ele	ctric M	otor	Usable Oil	Oil Tank	Weight
MOUEI	туре	High	Low	High	Low	(V)	(Kw)	(Pole)	(RPM)	(liter)	(liter)	(kg)
TMP 1/2-M	Manual	700	70	0.43	2.58	220V Single	0.4	4	1720	6	9	34.5
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 1/3, TMP1/2







#### Specifications

Model	Turno					1	Dimensior	1 I				
Model	туре	А	В	С	D			G	Н	J	K	
TMP 1/2	Manual									273		402
	Single Solenoid	309	239	265	195	M8x1.25	189	458	444	273	217	309
	Double Solenoid									330		309

How to understand Model No. :



**TMP2-2S-P-P/S** 





**TMP 1-M** 

#### **Specifications**

Model	Tupo	Pressure (b	Capacity ar)	Output F (ℓ/	ʻlow Rate min)	Voltage	Ele	ctric M	otor	Usable Oil	Oil Tank	Weight
MOGEI	туре	High	Low	High	Low	(V)	(Kw)	(Pole)	(RPM)	(liter)	(liter)	(kg)
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 1-25	Double Solenoid	700	70	0.86	4.3	220V Single	0.75	4	1720	8.4	12	41.5

→ Pressure-Switch → Pilot Check v/v Option

 Double Solenoid Horsepower





#### **Specifications**

Model	Turne					1	Dimensior	ı				
WOder	турс		В	С	D			G	Н	J	K	
TMP 1	Manual									275		403
	Single Solenoid	309	251	265	195	M8x1.25	245	515	_	375	_	309
	Double Solenoid									325		309

# **Electric Hydraulic Pumps**





**TMP 2-M** 

#### Specifications

Model	Tupo	Pressure (b	Capacity ar)	Output F (ℓ/	low Rate min)	Voltage	Ele	ctric M	otor	Usable Oil	Oil Tank	Weight
Model	туре	High	Low	High	Low	(V)	(Kw)	(Pole)	(RPM)	(liter)	(liter)	(kg)
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





#### Specifications

Model	Time					[	Dimensior	1				
	туре	А	В	С	D	Е		G	Н	J	K	L
TMP 2	Manual	A1 A	ллл	264	264	M9v1 25	201	620	502	430	260	499
	Double Solenoid	414	444	504	504	1110x1.23	201	039	392	470	302	414



1 TMF 3 М L TMP 3-25

**TMP 3-M** 

#### Specifications

\* The size of oil tank can be changed when use with punches

25

Model Type	Turce	Pressure (b	Capacity ar)	Output F (ℓ /ı	ʻlow Rate min)	Voltage	Ele	ctric M	otor	Usable Oil	Oil Tank	Weight
	Type	High	Low	High	Low	(V)	(Kw)	(Pole)	(RPM)	(liter)	(liter)	(kg)
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





#### **Specifications**

Model	Turco						Dimensior	ı				
	туре	А	В	С	D	E	F	G	Н	J	K	L
TMP 3	Manual	EAE	171	515	240	a10	215	625		467		588
	Double Solenoid	545	4/4	212	540	010	515	025	_	487	_	545

How to understand Model No. : TMP2-2S-P-P/S

# **Electric Hydraulic Pumps**

Pressure-Switch Option
Pilot Check v/v Option
Double Solenoid Horsepower







**TMP 5-M** 

#### **Specifications**

Model	Tupo	Pressure (b	Capacity ar)	Output F (ℓ/	low Rate min)	Voltage	Ele	ctric Mo	otor	Usable Oil	Oil Tank	Weight
Model	туре	High	Low	High	Low	(\/)	(Kw)	(Pole)	(RPM)	(liter)	(liter)	(kg)
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





#### **Specifications**

Model	Time					1	Dimensior	1				
	туре	А	В	С	D		F	G	Н	J	K	L
TMP 5	Manual	EAE	474	E 1 E	240	a10	41E	740		465		588
	Double Solenoid	545	4/4	515	540	ØIU	415	/40	-	485	-	545

# **Engine Hydraulic Pump**

- Suitable for construction sites where there is no power source or it is difficult to use a compressor
- External pressure regulator attachment For both single-acting and double-acting cylinders



**TEP2 Manual Type** 



Model	TEP2-M	Fuel Tank Capacity	1.5 L							
Туре	Air Cooled 4 Cycle Gasoline Engine	Spark Plug	NGK BMR 4A							
Cylinder Volume	86 cc	Starting System	Recoil Starter							
Continuous Output	2HP / 3,600 rpm	Fuel	Automobile							
Maximum Output	3HP / 4,200 rpm	ruei	(Unleaded)							
Direction of Rotation	Counter clock wise, as Viewed from P.T.O. Shaft side									
Engine Oil	SC Higher Garde or 10W-30 0.6L									

#### **Specifications**

Model	Active	Pressure Ca	apacity(bar)	Out-put Flow	Rate( ℓ /min)	Di	imensio	ns	Usable Oil	Oil Tank	Weight
	Туре	High	Low	High	Low	L	W	Н	Capacity( l )	Capacity( l )	(kg)
TEP2-M	Manual	700	70	1.15	4.3	500	330	450	6.5	8	32







#### **TEP5 Manual Type**

#### **Engine Specifications**

Model	EX 17	Engine Oil	SC Higher Garde or 10W-30 0.6 L				
Туре	Air Cooled 4 Cycle Gasoline Engine	Fuel	Automobile Gasoline(Unleaded)				
Cylinder Volume	169 сс	Fuel Tank Capacity	3.2 L				
Continuous Output	4.0 ps / 1,800 rpm	Spark Plug	NGK BR6HS				
Maximum Output	5.7 ps / 2,000 rpm	Starting System	Recoil Starter				
Direction of Rotation	Counter clock wise, as Viewed from P.T.O. Shaft side						

#### Specifications

Model Ac	Active	Pressure Ca	apacity(bar)	Out-put Flow	Rate( ℓ /min)	D	imensio	ns	Usable Oil	Oil Tank	Weight
	туре	High	Low	High	Low	L	W	Н			(Kg)
TEP 5-M	Manual	700	70	1.37	4.3	715	418	529	9	11	60

\* It can be produced by various customizing.

# **Engine Hydraulic Pump**







#### Manual -Double Solenoid Type

#### **Engine Specifications**

Model	EX 17	Engine Oil	SC Higher Garde or 10W-30 0.6 L					
Туре	Air Cooled 4 Cycle Gasoline Engine	Fuel	Automobile Gasoline(Unleaded)					
Cylinder Volume	169 cc	Fuel Tank Capacity	3.2 L					
Continuous Output	4.0 ps / 1,800 rpm	Spark Plug	NGK BR6HS					
Maximum Output	5.7 ps / 2,000 rpm	Starting System	Recoil Starter					
Direction of Rotation	Counter clock wise, as Viewed from P.T.O. Shaft side							

#### Specifications

Model	Active	Pressure Ca	apacity(bar)	Out-put Flow	/ Rate( ℓ /min)	D	imensio	ns	Usable Oil	Oil Tank We Capacity(ℓ)	Weight
	Туре	High	Low	High	Low	L	W	Н	Capacity( l )		(kg)
TEP 5-2S	Manual-Double Solenoid	700	70	1.37	4.3	688	440	530	9	11	60

# (Example to application)



 Connect power transmission wire terminal using gasoline engine pumps in remote areas and construction sites where power is not available or compressors are difficult to use.
 \* Inquire dice separately

# Electric Hydraulic Pumps(Carbon brush motor type)

- Single-acting, double-acting, cylinder up to 700 bar
- Equipped with solenoid valve (Remote)
- Easier to transport, lighter than conventional hydraulic pumps
- Equipped with a cooler to work for a long periodCan use punching machine, torque wrench
- (modified)
- Excluding Air Cooler

# ▷ AC Pump (220∨ Single)



TMPB1/2





**Specifications** 



TMPB1







TMPB2





Torque wrenche pump can be produced the same specificatior TMPB1-2S.

Model	Type	Working Pr	essure(bar)	Out-put Flow	/ Rate( ℓ /min)	Voltage	Motor	Oil Tank	Weight
Moder	Type	High	Low	High	Low	(∨)	(Kw)	Capacity(ℓ)	(kg)
TMPB1/2-M	Manual		70	0.43				7	24.8
TMPB1/2-S	Single Solenoid	700			2.58	220V 50/60Hz	1.1		
TMPB1/2-2S	Double Solenoid								
TMPB1-M	Manual		70	0.86		220V 50/60Hz	1.35	7	28.4
TMPB1-S	Single Solenoid	700			4.3				
TMPB1-2S	Double Solenoid								
TMPB2-M	Manual	700	70	1.50	12	220V	2 7	22	E 1 2
TMPB2-2S	Double Solenoid	700	/0	1.59	4.3	50/60Hz	2./	23	54.3

\* It can be produced by various customizing.

# **Electric Ultra-high Pressure Hydraulic Pumps**





**Specifications** 

Model	Туре	Pres Capac	sure ity(bar)	Out- Flow Rate	-put e(ℓ/min)	Voltage	Voltage Electric Motor Usable Oil Oil Tank Oo Capacity Capacity		Weight			
		High	Low	High	Low	(V)	(Kw)	(Pole)	(RPM)	) (l)	(l)	(Kg)
TMP 3-M2000	Manual	2000	100	1.0	8.8	220v & 380v 3-PHASE	2.2	6	1200	36	52	103

# **Hydraulic Rock Splinter Cylinder**







#### **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



**TRB-21** 





TRB-1

# HYDRAULIC PUMPS

# **Electric Ultra-high Pressure Hydraulic Pump**

TECPOS's ultra-high pressure electric hydraulic pump can be composed of various systems according to working environment and conditions. Pumps can be produced in the form of a cart type to increase user convenience. The product is ideal for bolt tensioners requiring ultra-high pressure.







**TMP 5-S2500** 

#### Specifications

Model	Туре	Pres Capaci High	sure ity(bar)	Out- Flow Rate High	-put e( l /min)	Voltage (V)	Electric Motor		Electric Motor (Kw) (Pole) (RPM)		Usable Oil Capacity (ℓ)	Oil Tank Capacity (ℓ)	Weight (kg)
	Cinglo	- ing i	2011	- ngn	2011	2201 8,3801	(1.417)	(1-0107	(1.4.101)				
TMP 5-S2500	Solenoid	2500	100	0.8	5.6	3-PHASE	3.7	4	760	48	69.5	142	
TMP 3-C2000	Cock	2000	100	1.0	6.2	220v & 380v 3-PHASE	2.2	6	1200	36	52	103	
TMP 5-C2500	Cock	2500	100	0.8	6.2	220v & 380v 3-PHASE	3.7	6	1200	48	69.5	142	

 $\ensuremath{\mathbbmm}$  It can be produced by various customizing.

# **Electric Ultra-high Pressure Hydraulic Pump**





Model	Туре	Pres Capaci High	sure ity(bar)	Out- Flow Rate High	-put e( l /min)	Voltage (V)	Electric Motor (Kw)	Oil Tank Capacity (ℓ)	Weight (kg)
TMPB1-S-2500C	COCK	2500	20	0.15	1.0	220v 50/60Hz	1 1	6.0	26.2
TMPB1-S-1500C	TYPE	1500	20	0.3	1.0	(Single)	1.1	0.0	20.3

Technology Power System

# Air Driven Pumps TECPOS Air Driven Liquid Pumps & Power Unit



# **TL Series**

• Pump capable of discharging single and double pressures up to 0 to 3500 bar using air 1 to 7 bar. To use various hydraulic, water pressure and other liquids at ultra-high pressure, custom orders are available according to site conditions.

#### ▷ TL Model Maximum Pressure 2800 bar





Model	Ratio	Maximum Pressure (bar) (at air 7bar)	Maximum Flow Rate(ℓ /min)	A (Inlet)	B (Outlet)	L (Length)
TL-0070-150	10:1	70	22	NPT 1″	NPT 1/2"	315mm
TL-0350-150	50:1	350	4.2	NPT 1/2"	NPT 1/2"	280mm
TL-0490-150	70:1	490	3.0	NPT 1/2"	NPT 1/2"	280mm
TL-0700-150	100:1	700	2.2	NPT 1/2"	NPT 1/2"	280mm
TL-1190-150	170:1	1190	1.4	NPT 3/8″	NPT 3/8″	280mm
TL-1680-150	240:1	1680	0.9	NPT 3/8″	PF 3/8″	280mm
TL-2100-150	300:1	2100	0.7	NPT 3/8″	PF 3/8″	290mm
TL-2800-150	400:1	2800	0.6	NPT 3/8″	PF 3/8″	290mm

# **TSL Series**





Model	Ratio	Maximum Pressure (bar) (at air 7bar)	Maximum Flow Rate(ℓ /min)	A (Inlet)	B (Outlet)	L (Length)
TSL-0105-180	15:1	100	17.5	NPT 1″	NPT 1/2"	275mm
TSL-0280-180	40:1	280	6.8	NPT 1/2"	NPT 1/2"	245mm
TSL-0420-180	60:1	420	4.2	NPT 1/2"	NPT 1/2"	245mm
TSL-0560-180	80:1	560	3.5	NPT 1/2"	NPT 1/2"	245mm
TSL-0700-180	100:1	700	2.85	NPT 1/2"	NPT 1/2"	245mm
TSL-1000-180	150:1	1000	2.0	NPT 3/8″	NPT 3/8″	245mm
TSL-1500-180	220:1	1500	1.25	NPT 3/8″	NPT 3/8″	245mm
TSL-2200-180	320:1	2200	0.85	NPT 3/8″	PF 3/8″	250mm
TSL-2800-180	400:1	2800	0.7	NPT 3/8″	PF 3/8″	250mm
TSL-3500-180	500:1	3500	0.55	NPT 3/8″	PF 3/8″	250mm

# **TSS Series**



Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Inlet)	B (Outlet)	L (Length)
TSS-0070-150	10:1	70	19	NPT 1″	NPT 1/2"	270mm
TSS-0190-150	28:1	190	7.3	NPT 1/2"	NPT 1/2"	240mm
TSS-0380-150	55:1	380	3.7	NPT 1/2"	NPT 1/2"	240mm
TSS-0450-150	65:1	450	3.0	NPT 1/2"	NPT 1/2"	240mm
TSS-0700-150	100:1	700	2.2	NPT 1/2"	NPT 1/2"	247mm
TSS-1000-150	150:1	1000	1.4	NPT 3/8″	NPT 3/8″	247mm
TSS-1500-150	220:1	1500	1.0	NPT 3/8″	NPT 3/8″	247mm
TSS-1900-150	270:1	1900	0.75	NPT 3/8″	PF 3/8″	252mm
TSS-2400-150	350:1	2400	0.6	NPT 3/8″	PF 3/8″	252mm
TSS-3200-150	460:1	3200	0.5	NPT 3/8″	PF 3/8″	252mm
TSS-3600-150	460:1	3600 (at air 8bar)	0.5	NPT 3/8″	PF 3/8″	252mm

# AIR DRIVEN LIQUID PUMPS & POWER UNIT

# **AIR DRIVEN LIQUID SINGLE PUMP**

# **TSS Series**





Model	Ratio	Maximum Pressure (bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Air Inlet)	B (Flow Outlet)	C (Flow Inlet)
TSS-0500-130	75:1	500	2.3	PT3/8	NPT1/2	NPT1/2
TSS-1000-130	140:1	1000	1.1	PT3/8	NPT1/2	NPT1/2
TSS-1100-130	170:1	1200	0.9	PT3/8	PF3/8	NPT3/8
TSS-1400-130	200:1	1400	0.8	PT3/8	PF3/8	NPT3/8
TSS-1800-130	260:1	1800	0.6	PT3/8	PF3/8	NPT3/8
TSS-2400-130	350:1	2400	0.5	PT3/8	PF3/8	NPT3/8

# **TSS Series**





Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Air Inlet)	B (Flow Outlet)	C (Flow Inlet)
TSS-0450-120	65:1	450	2.0	PT3/8	NPT1/2	NPT1/2
TSS-0800-120	110:1	800	1.1	PT3/8	NPT1/2	NPT1/2
TSS-1000-120	140:1	1000	0.9	PT3/8	PF3/8	NPT3/8
TSS-1200-120	170:1	1200	0.8	PT3/8	PF3/8	NPT3/8
TSS-1500-120	220:1	1500	0.6	PT3/8	PF3/8	NPT3/8
TSS-2400-120	350:1	2400	0.4	PT3/8	PF3/8	NPT3/8

# **AIR DRIVEN LIQUID DOUBLE PUMP**

# **TDL Series**









Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Inlet)	B (Outlet)	L (Length)
TDL-0105-180	15:1	105	35.0	NPT 1″	NPT 1/2"	355mm
TDL-0280-180	40:1	280	13.6	NPT 1/2"	NPT 1/2"	295mm
TDL-0420-180	60:1	420	8.4	NPT 1/2"	NPT 1/2"	295mm
TDL-0560-180	80:1	560	7.0	NPT 1/2"	NPT 1/2"	295mm
TDL-0700-180	100:1	700	5.7	NPT 1/2"	NPT 1/2"	280mm
TDL-1000-180	150:1	1000	4.0	NPT 3/8″	NPT 3/8″	280mm
TDL-1500-180	220:1	1500	2.5	NPT 3/8″	NPT 3/8″	280mm
TDL-2200-180	320:1	2200	1.7	NPT 3/8″	PF 3/8″	320mm
TDL-2800-180	400:1	2800	1.4	NPT 3/8″	PF 3/8″	320mm
TDL-3500-180	500:1	3500	1.1	NPT 3/8″	PF 3/8″	320mm

# **AIR DRIVEN LIQUID DOUBLE PUMP**

# **TDS Series**







Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Inlet)	B (Outlet)	L (Length)
TDS-0070-150	10:1	70	38	NPT 1″	NPT 1/2"	270mm
TDS-0190-150	28:1	190	14.5	NPT 1/2"	NPT 1/2"	240mm
TDS-0380-150	55:1	380	7.4	NPT 1/2"	NPT 1/2"	240mm
TDS-0450-150	65:1	450	6.0	NPT 1/2"	NPT 1/2"	240mm
TDS-0700-150	100:1	700	4.4	NPT 1/2"	NPT 1/2"	290mm
TDS-1000-150	150:1	1000	2.8	NPT 3/8″	NPT 3/8″	<b>290</b> mm
TDS-1500-150	220:1	1500	2.0	NPT 3/8″	NPT 3/8″	300mm
TDS-1900-150	270:1	1900	1.5	NPT 3/8″	PF 3/8″	300mm
TDS-2400-150	350:1	2400	1.2	NPT 3/8″	PF 3/8″	300mm
TDS-3200-150	460:1	3200	1.0	NPT 3/8″	PF 3/8″	300mm
TDS-3600-150	460:1	3600 (at air 8bar)	1.0	NPT 3/8″	PF 3/8″	300mm

# AIR DRIVEN LIQUID DUAL DOUBLE PUMP

# **TDD Series**





Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Inlet)	B (Outlet)
TDD-0280-180	40:1	280	16.5	NPT 1/2"	NPT 1/2"
TDD-0490-180	70:1	490	10.5	NPT 1/2"	NPT 1/2"
TDD-0700-180	100:1	700	7.0	NPT 1/2"	NPT 1/2"
TDD-0900-180	130:1	900	5.4	NPT 1/2"	NPT 1/2"
TDD-1100-180	160:1	1100	4.5	NPT 1/2"	NPT 1/2"
TDD-1500-180	220:1	1500	3.3	NPT 3/8″	NPT 3/8″

# **AIR DRIVEN LIQUID HAND OPERATED PUMP**

# **TSM Series**





Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Air Inlet)	B (Flow Outlet)	C (Flow Inlet)
TSM-1500-75	220:1	1540	0.36	PT 1/4″	M14 x 1.5	PT 3/8″

# **AIR DRIVEN LIQUID HAND OPERATED PUMP**

# **TSM Series**





Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Air Inlet)	B (Flow Outlet)	C (Flow Inlet)
TSM-1500-100	225:1	1500	0.65	PT3/8	M14x1.5	PT3/8-19
TSM-2500-100	360:1	2500	0.5	PT3/8	M14x1.5	PT3/8-19

# **AIR DRIVEN HYDRAULIC & WATER TEST PUMP**

# **TLF Series**





Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (mm)	B (mm)	c (mm)
TLF-0070-150	10:1	70	22			280
TLF-0350-150	50:1	350	4.2	460	345	
TLF-0490-150	70:1	490	3.0			
TLF-0700-150	100:1	700	2.2	480		
TLF-1190-150	170:1	1190	1.4			
TLF-1680-150	240:1	1680	0.9	530		
TLF-2100-150	300:1	2100	0.7			
TLF-2800-150	400:1	2800	0.6			

# AIR DRIVEN HYDRAULIC & WATER TEST PUMP

# **TLU Series**





Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (mm)	B (mm)	c (mm)	Oil Tank (liter)
TLU-0070-150	10:1	70	22				8.0
TLU-0350-150	50:1	350	4.2	460	345	430	
TLU-0490-150	70:1	490	3.0				
TLU-0700-150	100:1	700	2.2	480			
TLU-1190-150	170:1	1190	1.4				
TLU-1680-150	240:1	1680	0.9	530			
TLU-2100-150	300:1	2100	0.7				
TLU-2800-150	400:1	2800	0.6				

# **AIR DRIVEN HYDRAULIC & WATER TEST PUMP**

## **TDDU Series**





Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	A (Inlet)	B (Outlet)
TDDU-0280-180	40:1	280	16.5	NPT 1″	NPT 1/2"
TDDU-0490-180	70:1	490	10.5	NPT 1/2"	NPT 1/2"
TDDU-0700-180	100:1	700	7.0	NPT 1/2"	NPT 1/2"
TDDU-0900-180	130:1	900	5.4	NPT 1/2"	NPT 1/2"
TDDU-1100-180	160:1	1100	4.5	NPT 1/2"	NPT 1/2"
TDDU-1500-180	220:1	1500	3.3	NPT 3/8″	NPT 3/8″

# **TLC Series**



**TL Series** 



Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)
TLC-0070-150	10:1	70	22
TLC-0350-150	50:1	350	4.2
TLC-0490-150	70:1	490	3.0
TLC-0700-150	100:1	700	2.2
TLC-1190-150	170:1	1190	1.4
TLC-1680-150	240:1	1680	0.9
TLC-2100-150	300:1	2100	0.7
TLC-2800-150	400:1	2800	0.6

# **TSSU Series**





#### **TSS Series**



#### 12 OUTLET COUPLER

- 11 DRAIN VALVE
- 10 PRESSURE GAUGE
- 7 AIR BREATHER
- 5 CYCLING VALVE
- 4 AIR PRES' GUAGE
- 3 REGULATOR
- 1 AIR INLET PORT

Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	Oil Tank (liter)
TSSU-0070-150	10:1	70	19	
TSSU-0190-150	28:1	190	7.3	
TSSU-0380-150	55:1	380	3.7	-
TSSU-0450-150	65:1	450	3.0	
TSSU-0700-150	100:1	700	2.2	
TSSU-1000-150	150:1	1000	1.4	6.5
TSSU-1500-150	220:1	1500	1.0	
TSSU-1900-150	270:1	1900	0.75	
TSSU-2400-150	350:1	2400	0.6	
TSSU-3200-150	460:1	3200	0.5	
TSSU-3600-150	460:1	3600 (at air 8bar)	0.5	

# **TSSU Series**





**TSS Series** 



- 12 OUTLET COUPLER
- 11 DRAIN VALVE
- 10 PRESSURE GAUGE
- 7 AIR BREATHER
- 5 CYCLING VALVE
- 4 AIR PRES' GUAGE
- 3 REGULATOR
- 1 AIR INLET PORT

Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate(	Oil Tank (liter)
TSSU-0500-130	75:1	500	2.3	6.5
TSSU-1000-130	140:1	1000	1.1	
TSSU-1100-130	170:1	1200	0.9	
TSSU-1400-130	200:1	1400	0.8	
TSSU-1800-130	260:1	1800	0.6	
TSSU-2400-130	350:1	2400	0.5	

# **TSSU Series**





**TSS Series** 



- 12 OUTLET COUPLER
- 11 DRAIN VALVE
- 10 PRESSURE GAUGE
- 7 AIR BREATHER
- 5 CYCLING VALVE
- 4 AIR PRES' GUAGE
- 3 REGULATOR
- 1 AIR INLET PORT

Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	Oil Tank (liter)
TSSU-0450-120	65:1	450	2.0	6.5
TSSU-0800-120	110:1	800	1.1	
TSSU-1000-120	140:1	1000	0.9	
TSSU-1200-120	170:1	1200	0.8	
TSSU-1500-120	220:1	1500	0.6	
TSSU-2400-120	350:1	2400	0.4	
# **AIR DRIVEN HYDRAULIC POWER UNIT**

## **TDLU Series**









- 12 OUTLET COUPLER
- 11 DRAIN VALVE
- 10 PRESSURE GAUGE
- 7 AIR BREATHER
- 5 CYCLING VALVE
- 4 AIR PRES' GUAGE
- 3 REGULATOR
- 1 AIR INLET PORT

Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	Oil Tank (liter)
TDLU-0100-180	15:1	100	35.0	
TDLU-0280-180	40:1	280	13.6	
TDLU-0420-180	60:1	420	8.4	
TDLU-0560-180	80:1	560	7.0	
TDLU-0700-180	100:1	700	5.7	8.0
TDLU-1000-180	150:1	1000	4.0	8.0
TDLU-1500-180	220:1	1500	2.5	
TDLU-2200-180	320:1	2200	1.7	
TDLU-2800-180	400:1	2800	1.4	
TDLU-3500-180	500:1	3500	1.1	

# **AIR DRIVEN HYDRAULIC POWER UNIT**

## **TDSU Series**





**TDS Series** 



- 12 OUTLET COUPLER
- 11 DRAIN VALVE
- 10 PRESSURE GAUGE
- 7 AIR BREATHER
- 5 CYCLING VALVE
- 4 AIR PRES' GUAGE
- 3 REGULATOR
- 1 AIR INLET PORT

Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Oil Tank (liter)	
TDSU-0070-150	10:1	70	38	
TDSU-0190-150	28:1	190	14.5	
TDSU-0380-150	55:1	380	7.4	
TDSU-0450-150	65:1	450	6.0	
TDSU-0700-150	100:1	700	4.4	
TDSU-1000-150	150:1	1000	2.8	8.0
TDSU-1500-150	220:1	1500	2.0	
TDSU-1900-150	270:1	1900	1.5	
TDSU-2400-150	350:1	2400	1.2	
TDSU-3200-150	460:1	3200	1.0	
TDSU-3600-150	460:1	3600 (at air 8bar)	1.0	

# **AIR DRIVEN LIQUID PUMPS & POWER UNIT**

# **AIR DRIVEN HYDRAULIC POWER UNIT**

## **TSMU Series**





## **TSM Series**



- 13 PUMP LEVER
- 12 OUTLET COUPLER
- 11 DRAIN VALVE
- 10 PRESSURE GAUGE
- 7 AIR BREATHER
- 5 CYCLING VALVE
- 4 AIR PRES' GUAGE
- 3 REGULATOR
- 1 AIR INLET PORT

Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)
TSMU-1500-75	220:1	1540	0.36

# **AIR DRIVEN HYDRAULIC POWER UNIT**

## **TSMU Series**





**TSM Series** 



- 13 PUMP LEVER
- 12 OUTLET COUPLER
- 11 DRAIN VALVE
- 10 PRESSURE GAUGE
- 7 AIR BREATHER
- 5 CYCLING VALVE
- 4 AIR PRES' GUAGE
- 3 REGULATOR
- 1 AIR INLET PORT

Model	Ratio	Maximum Pressure(bar) (at air 7bar)	Maximum Flow Rate( ℓ /min)	Oil Tank (liter)
TSMU-1500-100	225:1	1500	0.65	5
TSMU-2500-100	360:1	2500	0.5	5

# LIQUID FOLW / OUTLET PRESSURE GRAPH

## TL / TSL / TSS Series



TL-150







**TSL-180** 



TSL-180 Series



**TSS-150** 



# LIQUID FOLW / OUTLET PRESSURE GRAPH

## TSS / TDL / TDS Series











**TDL-180** 



TDL-180 Series



TDS-150



# LIQUID FOLW / OUTLET PRESSURE GRAPH

## **TDD / TSM Series**



**TDD-180** 







**TSM** Series

# Hydraulic Tools **TECPOS Hydraulic Tools**



# **Hydraulic Tools**

• TECPOS continues to research to provide the optimal tool for users and work environments through various hydraulic tools.



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NO.	DESCRIPTION	SPEC	Q'TY	NO.
1	PUNCH BODY		1	20A-01
2	PISTON		1	20A-02
3	COVER NUT		1	20A-03
4	STOPPER		1	20A-04
5	UP KNIFE CAP-1		1	20A-05
6	BUSHING		1	20A-06
7	O-RING	P65	2	OP-65
8	BACKUP- RING	P65	3	BP-65
9	WASHER	Ф8x1Т	2	W8
10	WRENCH BOLT	M8x35L	2	WB8-35
11	SWITCH		1	20A-11
12	ELECTRIC GRIP		1	20A-12
13	ELECTRIC JOIN NUT		1	20A-13
14	ELECTRIC WIRE		1	20A-14
15	ELECTRIC CONNECTOR	N20-3/R	1	20A-15
16	ONE-TOUCH COUPLER	TBC 84WM	2	36E-00
17	NIPPLE	PT3/8	2	35Z-01
18	HEX NUT	M8	1	N-8
19	SET SCREW	M8x5L	4	SWB8-5
20	WRENCH BOLT	M8x10L	2	WB8-10
21	UP KNIFE		1	20A-21
22	DOWN KNIFE ( DIES )		1	20A-22
23	U-PACKING	UPI40GSS	1	U-40
24	SNAP RING	R60	1	RTW-60
25	BODY SUPPORT		1	20A-25
26	CAP SPANNER		1	20A-26
27	ELECTRIC SWITCH COVER		1	20A-27
28	BOLT	M5x12L	2	RHP5-12
29	ELECTRIC WIRE GRIP		1	20A-29
30	공구통		1	20A-30
31	오일샷시		1	20A-31
32	L- 렌치		1	20A-32
33	WASHER	(Φ10.5xΦ 19.5x1t)	1	W10.5-19 .5-1

## **TPUN 2416**

1



TEM NO	DESCRIPTION	SPEC	Q'TY	CODE
1	PUNCH BODY		1	20F-01
2	PISTON		1	20F-02
3	COVER NUT		1	20F-03
4	BUSHING		1	20F-04
5	STOPPER		1	20F-05
6	UP KNIFE		1	20F-06
7	UP KNIFE CAP		1	20F-07
8	DOWN KNIFE( DIES )		1	20F-08
10	BACKUP- RING	P80	3	BP-80
11	O-RING	P80	2	OP-80
12	O-RING	G70	1	OG-70
13	BACKUP- RING	G70	1	BG-70
14	O-RING	P50A	1	OP-50A
15	BACKUP- RING	P50A	1	BP-50A
16	SET SCREW	M8x5L	3	SWB8-5
17	HAND GRIP		1	20F-17
18	HAND GRIP SETING NUT	M16	1	N-16
20	SWITCH		2	20F-20
21	ELECTRIC GRIP		1	20F-21
22	ELECTRIC JOIN NUT		1	20F-22
23	ELECTRIC WIRE		1	20F-23
24	ELECTRIC CONNECTOR	N20-3/R	1	20F-24
25	ONE-TOUCH COUPLER	TBC-384M	2	36E-00
26	NIPPLE	PT3/8	2	35Z-01
27	WRENCH BOLT	M8x30L	3	WB8-30
28	고정캡 O-RING	Ф26хФ34x2.3t	1	20F-28
29	GUARD FLAT	15Tx200x120	1	20F-29
30	WRENCH BOLT	M8x20L	2	WB8-20
31	CAP SPANNER		1	20F-31
32	ELECTRIC WIRE GRIP		1	20F-32
33	공구통		1	20F-33
34	오일샷시		1	20F-34
35	L- 렌치		1	20F-35
36	AL명판		1	20F-36
37	명판 ASS'Y	20, 36	1	20F-37
38	SPRING PIN	Φ6x28L	1	SP6-28
39	WASHER	(Φ10.5xΦ19.5 x1t)	1	W10.5-19.5-1
40	BOLT	M5x12L	4	RHP5-12
41	SHAFT		1	20F-41

## **TPUN 2420**



17771				0007
NO -	DESCRIPTION	SPEC	Q'TY	
1	PUNCH BODY		1	20K-01
2	PISTON		1	20K-02
3	PISTON COVER		1	20K-03
4	BUSHING		1	20K-04
5	STOPPER		1	20K-05
6	UP KNIFE		1	20K-06
7	UP KNIFE CAP		1	20K-07
8	DOWN KNIFE(DIES)		1	20K-08
10	BACKUP- RING	P95	3	BP-95
11	O-RING	P95	2	OP-95
12	O-RING	P65	1	OP-65
13	BACKUP- RING	P65	1	BP-65
14	O-RING	P50A	1	OP-50A
15	BACKUP- RING	P50A	1	BP-50A
16	SET SCREW	M8x5L	3	SWB8-5
17	HAND GRIP		1	20F-17
18	HAND GRIP SETING NUT	M16	1	N-16
19	PLUG	PT1/4	2	PL-1/4
20	SWITCH		2	20F-20
21	ELECTRIC GRIP		1	20F-21
22	ELECTRIC JOIN NUT		1	20F-22
23	ELECTRIC WIRE		1	20F-23
24	ELECTRIC CONNECTOR	N20-3/R	1	20F-24
25	ONE-TOUCH COUPLER	TBC-384WM	2	36E-00
26	NIPPLE	PT3/8	2	35Z-01
27	WRENCH BOLT	M8x30L	3	WB8-30
28	고정 O-RING	Φ26xΦ34x2.3t	1	20F-28
29	GUARD FLAT		1	20F-29
30	WRENCH BOLT	M8x20L	2	WB8-20
31	AL명판		1	20F-36
32	ELECTRIC WIRE GRIP		1	20F-32
33	공구통		1	20F-33
34	오일샷시		1	20F-34
35	L- 렌치	4MM	1	20F-35
36	CAP SPANNER		1	20F-31
37	명판 ASS'Y	20, 31	1	20F-37
38	BOLT	M5x12L	4	RHP5-12
39	SPRING PIN	Φ6x28L	1	SP6-28
40	WASHER	(Φ10.5xΦ 19.5x1t)	1	W10.5-19 .5-1
41	SHAFT		1	20F-41

## **TPUN 3222**



ITEM NO.	DESCRIPTION	SPEC	Q'TY	CODE NO.
1	PUNCH BODY	110T	1	20E-01
2	SET SCREW	M10x25L	6	SWB10-25
3	DIE		1	20E-03
4	PUNCH KNIFE		1	20E-04
5	STOPPER		1	20E-05
6	UP KNIFE CAP		1	20E-06
7	PISTON GUIDE	M10	1	20E-07
8	PISTON		1	20E-08
9	CYLINDER BODY		1	20E-09
10	O-RING	P60	1	OP-60
11	BACKUP RING	P60	1	BP-60
12	O-RING	P115	2	OP-115
13	BACKUP RING	P115	3	BP-115
14	COVER NUT		1	20E-14
15	SET SCREW	M8x12L	1	SWB8-12
16	NIPPLE		2	35Z-00
17	COUPLER		2	36E-00
18	CAP SPANNER		1	20E-18



\* It can be produced by various customizing.

# **Hydraulic Punches**



TPUN2416

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-2416-07	24	16	70	47	21	2HP	5sec		ø18, ø20
TPUN-2416-11	24	16	110	47	28	2HP	5sec		ø22, ø24

HYDRAULIC TOOLS





TPUN-3222 (Double Type)



**TPUN2420** 

409

**TPUN3222** 

## 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-2420	24	20	110	60	34	3HP	бsec	2HP, 3HP	ø18, ø20, ø22, ø24
TPUN-3222	32	22	110	85	132	3HP	бsec	3HP ~ 5HP	ø26, ø28, ø30, ø32

\* It can be produced by various customizing.

# **Hydraulic Punches**

**TPUN-2010** 



**TPUN-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-2010	20.5	10	50	24	8.5	1HP Single	ø10.5, ø13.5, ø17.5, ø20.5
TPUN-1710C	17.5	10	50	24	8.5	1HP Single Sol	Channel Type, ø10.5, ø13.5, ø17.5

\* The above options are subject to change without prior notice.

# **Hydraulic Knockout Punches**





129.8

PT3/8-11



TKOP-P2 / TKOP-P4

Punching	Cylinder	Maximum	Hydraulic Coupler	
Capacity	Capacity(ton)	Pressure(bar)		
1/2″~ 4″	10	700	TBC 384F(PT3/8)	

Model	Capacity	Punchi	ing Thickness(mm)	Max, Punching Dia	Weight (kg)	
	(ton)	SS400 이하	SUS	(ø)		
TKOP-2	10	2 2	1.0	1/2″- 2″	14	
TKOP-4	10	5.2	1.0	1/2″- 4″	22	
TKOP-P2	10	2.2	1.6	1/2″- 2″	16.2	
TKOP-P4	IU	5.2	1.0	1/2″- 4″	24.2	

Size	Punching Dia(ø)	Cable 0ut Dia(ø)	Screw	Remark		
B16(1/2)″	21.8	21.0	7/16″×20S	11(mm)		
B22(3/4)″	27.6	26.5				
B28(1)″	34.1	33.3				
B36(1 1/4)″	42.7	41.9	3/4″×16S	Drill the holes with a $\emptyset$ 11(mm) drill, and use		
B42(1 1/2)"	48.7	47.8				
B54(2)″	60.5	59.6				
B70(2 1/2)″	76.1	75.2		a B16 (1/2) punch.		
B82(3)″	88.9	87.9	1″×12S			
B104(4)″	115.5	113.4				

# **Hydraulic Knockout Punches**



Model	TBKOP-2″									
Capacity(ton)	8	Size(mm)	1	16×480×80						
Stroke(mm)	25	Weight(kg)		.7						
A range of application	TBKOP-2 ► B16(1/2)", B22(3/4)", B28(1)", B36(11/4)", B42(11/2)", B54(2)"									
Punching Dia(mm)	3.2(Under SS400), 1.6(Und	er SUS)	Voltage(V)	Battery Li-ion 18V						

# **Bolt Tensioners**



Capacity(ton)	Stroke(mm)	Maximum Pressure(bar)	Hydraulic Coupler	
19 ~ 580	6~15	1500	CEJN(PF1/4)	

• Bolt Range : M20 ~ M100

• Fitted with single acting spring return cylinders for use of Bolts/Nuts connection.

Model	Cylinder Capacity	Stroke	Dimension							
	(ton)		А	В	С	D	E	F	G	(19)
TBT-M20	19	6	69	53	75	40	59	20	11	2
TBT-M24	28	6	89	65	80	49	79	23	13	3
TBT-M30	43	8	99	79	90	60	89	25	13	5
TBT-M36	66	8	119	90	100	70	109	34	16	6
TBT-M42	93	10	139	107	110	84	129	35	16	9.5
TBT-M48	120	10	149	120	110	94	139	39	18	11.5
TBT-M56	162	10	179	140	135	109	169	45	18	19
TBT-M64	222	10	215	155	155	120	205	55	22	28
TBT-M72	230	10	238	170	170	130	229	55	22	40
TBT-M80	363	10	269	195	180	140	259	55	22	55
TBT-M90	466	15	299	215	190	160	289	60	26	70
TBT-M100	580	15	339	240	200	180	329	70	26	94

## Specifications

 $\ensuremath{\mathbbmm}$  It can be produced by various customizing.

# **Nut Splitters**

Exposed and rusted nuts can be easily cut without damage using TNS-32.520 NUT Splitters (cannot be used on special steel nuts).







Capacity(ton)	14 & 32.5
Bolt Range(mm)	14ton(M12 ~ M24), 32.5ton(M20 ~ M33)
Maximum Pressure(bar)	700
Hydraulic Coupler	TBC 381F(PT3/8)



- Easily removing rusty nuts without damage to bolts
   approximate an approximate structure runte
- cannot be used on special steel nuts

Model (	Cylinder Capacity (ton) Stroke (mm)	Cylinder	Oil	Dimension												
		Stroke (mm)	(mm) Effective Area (cm²)	Capacity (cc)	A Max (mm)	A Min (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	l (mm)	(kg)	Pump
TNS-1415	14	15	21.2	31.8	44.5	29.5	12.5	73	220	23	62.5	78	17	101	3.2	1B, 08
TNS-32.520	32.5	20	46.5	93	57	44	19	98	277	29	85	115	28	128	12	1/2HP

# **Hydraulic Flange Spreaders**

- TECPOS' TFS-661 minimizes friction by applying a stepwise spreader, which minimizes damage to the spreader jack and reduces spreader malfunction through smooth movement.
- Ultra-light, easy to move, allowing one-man simple operation.



## Specifications





#### 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 381F(PT3/8)	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 381F(PT3/8)	Pump	1B, 08 or 1/2HP



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

# **MECHANICAL FLANGE ALIGNMENT TOOLS**

- Fast, simple and safe flange alignment tool
- Reduces work fatigue with light-weight, low-torque design
- Safe operation with safety strap installation



#### **Specifications**

MODEL	ALIGNING FORCE	ALIGNING STROKE	MINIMUM BOLT HOLE	DIMENSIONS	RANGE OF APPLICATION	TOOL WEIGHT
TFAT-1	1.3 TON (13kN)	26 mm	16 mm	250.5×155×35	1-1/2"~3-1/2" ASME(CLASS 600)	2.8 kg
TFAT-4	4.2 TON (42kN)	54 mm	25 mm	301.5×282×78	4"~20" ASME(CLASS 600)	7.0 kg
TFAT-9	9.0 TON (90kN)	70 mm	32 mm	446×270×98	22"~48" ASME(CLASS 600)	12.7kg

\* standard parts > Spanner/Clip fixing bar (TFAT-1), Torque wrench/Ratchet fixing bar (TFAT-4), Ratchet fixing bar (TFAT-9)

## **MECHANICAL FLANGE SPREADER TOOLS**

- Simple, lightweight and safe spreader tool
- Reduces work fatigue with light-weight, low-torque design



#### **Specifications**

MODEL	SPREADING FORCE	ADJUSTABLE JAW WIDTHS	MINIMUM BOLT HOLE	SPREADING STROKE	DIMENSIONS	RANGE OF APPLICATION	tool Weight
TFSM-90	2 TON (20kN)	60~90 mm	15 mm	35 mm	120×186×50	1/2"~20" ASME(CLASS 150)	1.45 kg
TFSM-130	4 TON (40kN)	78 ~ 130mm	11 mm	40 mm	169×211×52	1/2"~24" ASME(CLASS 150)	2.6 kg

\* standard parts ► Torque Wrench/Shaft 10mm/14mm(TFSM-90), Torque Wrench/Shaft 14mm/19mm(TFSM-130)











# **Hydraulic Pullers**

- Predicting the exact force required for a puller operation is impossible. Since the set-up requirements, size, shape, and conditions of the part to be separated can vary greatly, the degree of unfolding of the puller and separation width must be accurately selected. Protective equipment is essential at all times as work parts or pulling tools can break or fly off.
- TECPOS' gear puller (TPUL Series) adjusts the puller levers in two or three units in consideration of strong power and convenience.



• Hydraulic pullers used when removing bearing, gear or pully from shafts.

#### **Specifications**

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

PT3/8-19

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# **Welding Jack Pumps**





Head Type





Saddle Type



Capacity(ton)	5 ~ 10
Stroke(mm)	90 ~ 200
Maximum Pressure(bar)	700

Model	Output Force (ton)	Retracted Height (mm) A	Extended Height (mm) B	Output Piston Stroke (mm) C	Output Saddle Stroke (mm) D	Head Dia. (mm) E	Saddle Dia, (mm) F	Welding Jack Heigth (mm) G	Welding Jack Width (mm) H	Weight (kg)
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

# **Aluminum Pulling Jack**

Made of aluminum for light weight, used for correcting torsion or bending of structures (blocks) in shipbuilding and plants for installation or mounting.



А

В

Capacity(ton)	10 ~ 100
Stroke(mm)	150 ~ 200
Maximum Pressure(bar)	700
Hydraulic Coupler	TBC 381F(PT3/8)

- · Eyebolt and spring return are provided.
- · Aluminum puller jack is half the weight of steel puller jacks.
- The jack is suitable for shipyard welding and large construction work.

#### Stroke Weight TAPJ-10150 10.3 1B, TAPJ-20150 13.9 1/2HP TAPJ-30150 TAPJ-30200 1C, TAPJ-50150 1/2HP TAPJ-50200 TAPJ-100150 1101.5 951.5 1/2HP

# **Working photo Pulling Jacks**

The hydraulic products provided by TECPOS are newly designed for transport, convenience, and work environment to satisfy user convenience and all requirements of industrial site to the fullest, and to supply to overall industries. For special products, contact the nearest distributor or our representative.



## **Wire Cutter**





Hydraulic Coupler	TBC 384F(PT3/8) or DN38M
Maximum Pressure(bar)	700

## Specifications

Model	Capacity	Stroke	A range of application	Size	Weight
	(ton)	(mm)	(mm)	(mm)	(kg)
TCT32-N	20	40	32	288×143×78 ø	9.4

\*\* Pump : ESP-05, THPA-1B, THPF-1B, TMPM(AC)1/2 , TDPM(DC)1/3, TAPM(AIR)1/2

## Rod Cutter





- Capacity : 30ton
- Stroke : 30mm
- Maximum Pressure : 700bar
- Hydraulic Coupler : TBC 381F(PT3/8), TBC 384F or DN38M
- Round Bar cutters available with hand or electric pumps

## Battery Cutter





TRC 20-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)
<b>TRC 25</b>	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

\* The above options are subject to change without prior notice.

# **Notching Machine**



Hydraulic Coupler	TBC 384M or DN38M
Maximum Pressure(bar)	700



## 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

# **Angle Cutters**



- Capacity : 20 ~ 50ton Stroke : 45 ~ 70mm Maximum Pressure : 700bar
- Angle Cutters available with hand or electric pumps Hydraulic Coupler : TBC 384M(PT3/8) or DN38M

Model	Cylinder Capacity	Stroke	Oil Capacity	Max.	Pump		Dimension(mm)										Weight	
	(ton)	(mm)	(cc)	angle		А	В	С	D	E	F	G	Н	J	K	L	М	(kg)
TAC-50	20	45	150	50x50x6T	1/2HP	200	120	240	180	366	88	150	165	140	266	74	ø13	18
TAC-75	30	65	288	75x75x10T	Double	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	1HP Double	450	300	500	400	735	155	245	385	350	470	146	ø 16	145

# Oil - L - Jacks



Down Capacity Up Capacity L - Jack TECPOS

TECPOS' Oil-L-Jacks are ideal for lifting, servicing and repairing machinery. Various specifications and 180° rotatable levers can increase work efficiency.



TLJ-52.5



**TLJ-2010** 





**TLJ-105** 



**TLJ-3015** 



## 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



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



Keep the Jack even at all times on level ground.

Capacity(ton)	2.5 ~ 30
Stroke(mm)	120 ~ 160
Maximum Pressure(bar)	140

plate.

• For use in very confined work areas

Model	Cylii Capac	nder ity(ton)	h) Stroke Height Height				Base Dimension				Base Thickness	Weight
	UP	Down	(mm)	А	В	С	D	E	F	G	н	(Kg)
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

# **Hydraulic Pipe Benders**

How to understand Model No. :

→ Bending Capacity, 2 inch → Pipe Bender → TECPOS





**TPB-2**<sup>″</sup>

Cylinder	2″, 3″, 4″
Maximum Pressure(bar)	700
Stroke(mm)	255 ~ 300
Capacity(ton)	10 ~ 20
Hydraulic Coupler	TBC 381F(PT3/8)

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	e 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

Model	Capacity Max, wall	Max, wall	Max. wall Max.	Dimension(mm)			Bending	Cylinder	Stroke	Oil Capacity	Weight	Pump	
Meder	(Inch)	(mm)	angle(.)	ngle(") A B C D Shoe Ca	Capacity	(mm)	(cc)	(kg)	, any				
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	ECD 17
TPB-4	4″(100A)	4.9	90	1000	766	260	370	1/2″~4″	20	300	996	79	E34-17

Technology Power System

# Hydraulic Tools TECPOS Hydraulic Crimping & Cutting Tools



# **Hydraulic Tools**



Hydraulic Cutter Head Tools								
TCC40-N	TCC55B-N	TCC55-N		TCC85-N				
			No. of the second se					
TCC85B-N	TCC100-N	TCC132-N	TCC180-N	TCT32-N(Wire Cutter)				

Hand Hydraulic Cutter							
TCC24	TCC40	TCC55B					
TCC55C	TCC85B	TCC85C					

Hydraulic Cutting / Crimping Heads							
TCC25-NH	TCP400-42-NH	TDPM 1/3-HS					

# **Hydraulic Crimping Heads**





**TCP240-N** 

CP240-N *Pump Exclude							
Capacity (ton)	6	Ohur (	14	Size(mm)	70×54×240		
	0	Suoke(mm)	14	Weight(kg)	1.4		
A range of application	IEC 16~2 AIR(1/2), HOSE Cr	IEC 16~240mm <sup>2</sup> (16, 25, 35, 50, 70, 95, 120, 150, 185, 240) AIR(1/2), GAS(5/16) HOSE Crimping, Octagon DIES					
Using pump	THPA-1E	THPA-1B or ESP-05/08, TMPM-1/2, TDPM-1/3					

\*Maximum Pressure : 500bar \*Standard Dies 12set : AIR(1/2), GAS(5/16), (16, 25, 35, 50, 70, 95, 120, 150, 185, 240)

## **TCP400-32-N**

Capacity	12	Stroke(mm)	32	Size(mm)	116×74×300	
(ton)	15			Weight(kg)	3.9	
A range of application	IEC 16~4 ACSR 32 Indent Ty Tap-off o	400mm² (16, 25, 3 2~160mm², Termin /pe IEC 16~50m connector T20~	5, 50, 70, al crimp 8 r <sup>°</sup> , 70~185 7T365	95, 120, 150, 185, 24 ~150㎡, ㎡, 240~300㎡ 3종,	10, 300, 400)	
Using pump	THPA-1E	3 or ESP-05/08	, TMPM—1,	/2, TDPM-1/3		

\*\* Standard Dies 12set : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400



## **TCP400-20-N**

Capacity	10	Stroke(mm)	20	Size(mm)	120×80×285	
(ton)	10			Weight(kg)	3.5	
A range of application	IEC 16~4 ACSR 32 Indent Ty Tap-off o	400㎜² (16, 25, 3 2~160㎜², 압축단 /pe IEC 16~50m connector T20~	5, 50, 70, ⊼ŀ(Termina n°, 70~185 ∕T365	95, 120, 150, 185, 24 l crimp) 8~150㎡, ㎡ 2종,	40, 300, 400)	
Using pump	THPA-1E	3 or ESP-05/08	, TMPM—1,	/2, TDPM-1/3		

\*\* Standard Dies 12set : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240 \*\* Exclusive Dies : 300, 400 \*\* Maximum Pressure : 550bar



## **TCP 400-40-N**

Capacity	12	Stroke(mm)	40	Size(mm)	122×74x320	
(ton)	15			Weight(kg)	3.75	
A range of application	IEC 16~4 ACSR 32 Indent Ty Tap–off o	400mm² (16, 25, 3 2~160mm², Termin ype IEC 16~50m connector T20~	5, 50, 70, 1 al crimp 8 n², 70~185 2T365	95, 120, 150, 185, 24 ~150㎡, ㎡, 240~300㎡ 3종,	10, 300, 400)	
Using pump	THPA-1E	8 or ESP-05/08	, TMPM—1,	/2, TDPM-1/3		

\*\* Standard Dies 12set : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400



## **TCP 400-42-N**

Capacity (ton)	13	Stroke(mm)	42	Size(mm) Weight(kg)	124×68x345 4.4	
A range of application	IEC 16~400㎡ (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400) ACSR 32~160㎡, Terminal crimp 8~150㎡, Indent Type IEC 16~50㎡, 70~185㎡, 240~300㎡ 3종, Tap-off connector T20~T365					
Using pump	THPA-1B or ESP-05/08, TMPM-1/2, TDPM-1/3					

\*\* Standard Dies 12set : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400

# **Hydraulic Crimping Heads**

\* Pump Excluded



**TTCP630-N** 



TTCP800-N



**TTCP1000-N** 

Model	TTCP630-N	TTCP800-N	TTCP1000-N
Capacity(ton)	25	35	45
Stroke(mm)	29	30	30
Size(mm)	109(Dia)×249(H)	119(Dia)×269(H)	133(Dia)×274(H)
Weight(kg)	5.1(Excluded dies weight)	8.1(Excluded dies weight)	9.5(Excluded dies weight)
A range of application	Copper hexagon 300~630㎜²	Copper hexagon 400~800mm²	Copper hexagon 500~1,000m <sup>2</sup>
Using pump	THPA-1B or ESP-08 TMPM-½, TDPM-⅓	THPA-1B or ESP-08 TMPM-½, TDPM-⅓	THPA-1B or ESP-08 TMPM-½, TDPM-⅓
Standard Dies	Dies 4Set ► 300, 400, 500, 630	Dies 4Set ► 400, 500, 630, 800	Dies 4Set ► 500, 630, 800, 1000

\*Adapter required when using 16-400SQ dies.

## ▷ Crimping Tools Dies



DIE NO.	А	В	A range of application	С	A range of application	С	A range of application	С
300	28.3	12.2	TTCP-630					
400	32	14	TTCP-630		TTCP-800			
500	38.5	16	TTCP-630	27	TTCP-800	20	TTCP-1000	
630	42.2	17.5	TTCP-630		TTCP-800	28	TTCP-1000	20
800	46.8	19.8			TTCP-800		TTCP-1000	30
1000	52.8	22.8					TTCP-1000	

# **Hydraulic Crimping Heads**

\* Pump Excluded





**TTCP150** 



**TTCP200** 

Model	TTCP100	TTCP150	TTCP200	
Capacity(ton)	100	150	200	
Stroke(mm)	30	46	40	
Size(mm)	175(Dia)×378(H)	208(Dia)×476(H)	240(Dia)×488(H)	
Weight(kg)	28	53	86	
A range of application	<ul> <li>Maximum length inside dies</li> <li>Steel : 32mm, AL : 52mm, Copper : 64mm</li> </ul>	<ul> <li>Maximum length inside dies</li> <li>Steel : 40mm,</li> <li>AL : 86mm,</li> <li>Copper : 86mm</li> </ul>	<ul> <li>Maximum length inside dies</li> <li>Steel : 42mm,</li> <li>AL : 95mm,</li> <li>Copper : 95mm</li> </ul>	
Using pump	TEP5-M, TEP5-2S, TMP1-M, TMP1-2S, TMP2-M, TMP2-2S	TEP5-M, TEP5-2S, TMP1-M, TMP1-2S, TMP2-M, TMP2-2S	TEP5-M, TEP5-2S, TMP1-M, TMP1-2S, TMP2-M, TMP2-2S	

\*Order based Dies

# Hand Hydraulic Crimping Tools

\* Manual Type



TCP240							
Capacity(ton)	6	Stroke(mm)	14	Size(mm)	480×152×74		
				Weight(kg)	3.0		
A range of application	IEC 16~2 AIR(1/2), HOSE CI	240m² (16, 25, 3 GAS(5/16) rimping, Octago	5, 50, 70, s n DIES	95, 120, 150, 185, 24	10)		

\*\*Standard Dies 12set : AIR(1/2), GAS(5/16), 16, 25, 35, 50, 70, 95, 120, 150, 185, 240

#### **TCP400-32**



Capacity(ton)	12	Stroke(mm)	32	Size(mm)	546×175×80
	15			Weight(kg)	5.7
A range of application	IEC 16~4 ACSR 32 Indent Ty Tap–off 0	400mm² (16, 25, 3 2~160mm², Termin /pe IEC 16~50m connector T20~	5, 50, 70, al crimp 8 ㎡, 70~185 7365	95, 120, 150, 185, 24 ~150mm², mm², 240~300mm²,	40, 300, 400)

\*\* Standard Dies 12set : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400

## TCP400-20

57 - 08	

Conceity (ten)	10	Stroke(mm)	20	Size(mm)	530×175×80
Capacity(ion)	10			Weight(kg)	5.4
A range of application	IEC 16~4 ACSR 32 Indent Ty Tap-off	400mm² (16, 25, 3 2~160mm², Termin ype IEC 16~50m connector T20~	5, 50, 70, s al crimp 8 n°, 70~185 rT365	95, 120, 150, 185, 24 ~150㎜, ㎡,	10, 300, 400)

\*\*Standard Dies 12set : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400
\*\*Exclusive Dies : 300, 400

## ▷ Crimping Tools Dies





DIE NO.			TBCP400-32/40	TBCP400-20	TBCT/TBCP300
	А	В	С	С	С
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	_

\* Under 16SQ dies is order-made.
# **HYDRAULIC TOOLS**

\* Manual Type

### Hand Hydraulic Cutting Tools



TCC55C

TCC85B

**TCC85C** 

						(mm)
Material	TCC24	TCC40	TCC55B	TCC55C	TCC85B	TCC85C
Capacity(ton)	8	8	10	7.5	5	7.5
Size(mm)	500×150×48	590×150×48	658×117×68	650×190×60	678×140×69	680×220×69
Weight(kg)	4.3	5.8	8.4	4.5	6.6	6.3
Wire rope(6×7)	18	22	25			
Wire rope(6×12)	24	25	30			
Wire rope(6×19)	24	25	30			
Soft copper rod	22	22	35			
Aluminum bar	20	20	28			
Soft steel bar, Under SS400	20	20	22			
Reinforcing rod	16	16	20			
Cu strands	24 (325mm²)	41.6 (1,000mm²)	41.6 (1,000mm²)		28.8 (500mm²)	
Al strands	24 (325mm²)	40.7 (980mm²)	46.2 (1,260mm²)		29.4 (510mm²)	
ACSR	24 (290mm²)	38.4 (810mm²)	46.2 (1,160mm²)			
Guy wire(1×7)	15	15	15			
Guy wire(1×19)	20	20	20			
CCP cable	24	40	55	55	85	85
Lead cable	24	40	55	55	85	85
Underground cable	24	40	55	55	85	85

\* It can be produced by various customizing.

### **Hydraulic Cutting Heads**

							* Pur	np Excluded
	Ĵ.		and the second second	Jana	Contraction of the second	2		S. Market
TCC40-N	т	CC55B-N	N	тсс	55-N		TCC85	B-N
					•	Q		
<b>TCC85-N</b>	Т	CC100-N	N	TCC	132-N		TCC18	0-N
								(mm)
Material	TCC40-N	TCC55B-N	TCC55-N	TCC85B-N	TCC85-N	TCC100-N	TCC132-N	TCC180-N
Capacity(ton)	8	10	7.5	5	7.5	8	8	27
Size(mm)	330×96×58	394×110×68	370×140×42	410×140×69	400×194×88	470×152×76	550×185×76	958×300×127
Weight(kg)	4.3	6.6	4.2	5.0	4.9	7.6	13	68
Wire rope(6×7)	22	22						
Wire rope(6×12)	25	25						
Wire rope(6×19)	25	25						
Soft copper rod	22	22						
Aluminum bar	20	20						
Soft steel bar, Under SS400	20	20						
Reinforcing rod	16	16						
Cu strands	41.6 (1,000mm²)	41.6 (1,000mm²)		28.8 (500mm²)		41.6 (1,000mm²)	41.6 (1,000mm²)	41.6 (1,000mm²)
Al strands	40.7 (980mm²)	46.2 (1,260mm²)		29.4 (510mm²)		46.2 (1,260mm²)	46.2 (1,260mm²)	46.2 (1,260mm²)
ACSR	38.4 (810mm²)	46.2 (1,160mm²)						
Guy wire(1×7)	15	15						93.6 m²
Guy wire(1×19)	20	20						
CCP cable	40	55	55	85	85	100	132	175
Lead cable	40	55	55	85	85	100	132	175
Underground cable	40	55	55	85	85	100	132	175

# **Hydraulic Cutting Heads**



Material	TCC25-NH
Capacity(ton)	6.7
Size(mm)	102×303×123
Weight(kg)	2.48
ACSR	240mm²(ø28)
CCP cabl)	ø28
Lead cable	ø28
Underground cable	ø28

### **Hydraulic Crimping Heads**



**TCP400-42-NH** 

Conceitu(ten)	12 Stroko(mm)		42	Size(mm)	124×68×420		
Capacity(ton)	TZ Stroke(mm)	42	Weight(kg)	4.3			
A range of application	IEC 16~400mm² (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400) ACSR 32~160mm², Terminal crimp 8~150mm² Indent Type IEC 16~50mm², 70~185mm², 240~300mm² 3종. Tap-off connector T20~T365						
Using pump	THPA-1B or ESP-05/08, TMPM-1/2, TDPM-1/3						

\*\* Standard Dies 12set : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400

### Hydraulic Mini Pump



### ▷ **DC Pump** (Battery Operated)

Madal	Tupo	Working Pressure	Out-put Flow	Rate( l /min)	Voltage	Required oil	Weight
Model Type	(bar)	High	Low	(V)	(0)	(kg)	
TDPM 1/3-HS	Single Solenoid	700	0.2	2.0	18V 5.0Ah 1EA(Li-ion)	2	10

Technology Power System

# Hydraulic Tools TECPOS Battery Operated Hydraulic Tools



### **Battery Operated Crimping Tools**



#### **TBCP400-32**

\* Battery weight excluded

Conneity(ten)	10	Stroke(mm) 32		Size(mm)	403×332×80
Capacity(1011)	15	Stroke(mm)	32	Weight(kg)	6.0
A range of application	IEC 16~40 ACSR 32~ Indent Typ Tap–off co	0mm² (16, 25, 35 2160mm², Termin e IEC 16~50mm onnector T20~	5, 50, 70, 9 al crimp 8^ r, 70~185m T365	5, 120, 150, 185, 240, ~150mm², m², 240~300mm²,	300, 400),

\*Standard parts

▶Dies 5set [150, 185, 240, 300, 400],

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

#### **TBCP400-40**



Consoit (top)	12	12 Stroko(mm)		Size(mm)	432×340×80	
Capacity(101)	apacity(ton) 13 Stroke(mm)		40	Weight(kg)	5.7	
A range of application	IEC 16~40 ACSR 32~ Indent Typ Tap–off co	00mm² (16, 25, 35 ~160mm², Termin e IEC 16~50mm onnector T20~	5, 50, 70, 9 al crimp 8^ r, 70~185m rT365	5, 120, 150, 185, 240, ~150mm², m², 240~300mm²,	300, 400),	

\*Standard parts

▶ Dies 5set [150, 185, 240, 300, 400].

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

#### **TBCP400-42**

Se		TERMS THE REAL
	Trackia. Crowness	

Consoity(ton)	12	Stroko(mm)	12	Size(mm)	454×340×80	
	acity(ton) 13 Stroke(mm) 42 –		42 Weight(kg)		6.5	
A range of application	IEC 16~40 ACSR 32~ Indent Typ Tap–off co	00mm² (16, 25, 38 ~160mm², Termin e IEC 16~50mm onnector T20~	5, 50, 70, 9 al crimp 8∩ n°, 70∼185m ™365	5, 120, 150, 185, 240, ~150mm², m², 240~300mm²,	300, 400),	

\*Standard parts

▶ Dies 5set [150, 185, 240, 300, 400],

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g



#### **TBCP400-20**

Conceity/ten)	10	Stroke(mm)	20	Size(mm)	350x381x80
Capacity(101)	h) 10 Stroke(mm)		20	Weight(kg)	5.5
A range of application	IEC 16~40 ACSR 32~ Indent Typ Tap–off co	00mm² (16, 25, 35 2160mm², Termin e IEC 16~50mm onnector T20~	5, 50, 70, 9 al crimp 8^ r, 70~185m rT365	5, 120, 150, 185, 240, ∽150㎡, ㎡,	300, 400),

\*Standard parts

Dies 5set [150, 185, 240, Exclusive dies : 300, 400],

\* Battery weight excluded

# **Battery Operated Crimping Tools**



### **TBCP630-40**

Capacity(ton)	13	Stroke(mm)	42			
Size(mm)	439x363x80	Weight(kg)	6.8			
A range of application	IEC 16~630mm² (16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400, 500, 630), ACSR 32~160mm², Terminal crimp 8~150mm², Indent Type IEC 16~50mm², 70~185mm², 240~300mm², Tap-off connector T20~T365					

#### \*Standard parts

▶ Dies(500, 600), Adaptor for 16~400SQ dies,

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g



### TBCP300G

Capacity(ton)	5.3	Stroke(mm)	30			
Size(mm)	448x335x80	Weight(kg)	5.3			
A range of application	IEC 70~300mi'(70, 95, 120, 150, 185, 240, 300), Anderson type connector (Dieless)					

▶18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

#### **TBCP240**

Capacity(ton)	6.2	Stroke(mm)	24
Size(mm)	120×390×80	Weight(kg)	2.0
A range of application	IEC 16~240mm² (16, 25, 35, 50, 70, 95, 120, 150, 185, 240), AIR(1/2) HOSE Crimping, Hexagon DIES IndentType : 16~150mm²(16, 25, 35, 50, 70, 95, 120, 150)		185, 240), AIR(1/2) & GAS(5/16), 10, 150)

#### \*Standard parts

▶ Dies 12set [16, 25, 35, 50, 70, 95, 120, 150, 185, 240], AIR, GAS,

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

### **Rivet Tools - TRCT**

Consoity(ton)	E 6	Stroko(mm)	25	Size(mm)	490×220×80
Capacity(1011)	5.6 Stroke(mm)	25	Weight(kg)	5.1	
A range of application	Standard Hore Punch Size : ø6, ø8 Max Punching Thickness : 4,5mm Standard Rivet Crimping Size : ø3,3 ,			8 3,ø5.3	

#### Standard parts

► Rivet Dies 5set, Punching Dies 2set







### **Battery Operated Crimping Tools**



#### **TBCP185**

Capacity(ton)	8	Stroke(mm)	20
Size(mm)	116×491×87	Weight(kg)	4.0
A range of application	Indent Type : 16~50, 70~18 IEC 16~185mm²(16, 25, 35, 50,	5 70, 95, 120, 150,	, 185)

**%**Standard parts

► 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately. weight : 640g \*Indent Dies M Type 2set [16~50, 70~185], F Type 2set [16~50, 70~185]



#### **TBCP300**

Capacity(ton)	б	Stroke(mm)	20
Size(mm)	116×491×87	Weight(kg)	4.0
A range of application	IEC 16~300mm² (16, 25, 35, 50, 70, 95, 120, 150, 185, 2 ACSR 32~120mm², Terminal crimp 8~120mm²		0, 185, 240, 300)

\*Standard parts

▶ Dies 5set [120, 150, 185, 240, 300]/Exclusive dies 16~300,

# **Battery Operated Punching Tools**



\* It can be produced by various customizing.

### **Battery Operated Crimping&CuttingTools**

-			TBCT		
(Stud Bolt)			Capacity(ton)		6.1
			Cutting	ACSR	Ø28
			(Ø)	CU/AL	Ø32
			Stroke		30
(Crimping) (CU/AL)			Size(mm)		120x500x80
			Weight(kg)		1.9
		Traktii. EDTKE HOW success	A range of application		A range of crimling : 16~300mm <sup>2</sup> (16,25,35,50,70,95,120,150,185,240,300) A range of cutting : ACSR Ø28, CU/AL Ø32 CCP cable, Lead cable, Underground cable : Ø29 Aluminum conductor steel reinforced : 240mm <sup>2</sup> (Ø28) Stud bolt : 3/8 <sup>2</sup> (ss400) Punching : Ø8.5, Ø10.5, Ø12,5(ss400_2,5t, SUS_1.6t)
		<ul> <li>★ standard</li> <li>▶ Dies 11se</li> <li>Crimping</li> <li>Stud Bolt</li> </ul>	parts t [Exclusive Tools : 1,5k	dies : 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300] g, Cutting Tools : 1kg, ols : 1 5kg	
(DT Punching) (ACSR)		Durphing Tools : 0.4kg			

Punching Tools: 2.4kg

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g



Capacity(ton)		6.1	
Cutting	ACSR	Ø28	
(Ø)	CU/AL	Ø32	
Stroke(mm)		36	
Size(mm)		116x460x80	
Weight(kg)		2.4	
A range of application		A range of crimling : 16~400mm <sup>2</sup> Hex, Type : 16~400mm <sup>2</sup> (16,25,35,50,70,95,120,150,185,240,300,400) Indent Type : 16~240mm <sup>2</sup> (16,25,35,50,70,95,120,150,185,240) A range of cutting : ACSR Ø28, CU/AL Ø32 CCP cable, Lead cable, underground cable Aluminum Conductor Steel Reinforced <b>* Stroke guide : INDENT DIES, CU/AL</b>	

battery: 18V/5.0AH(18V Li-ion) 640g Hex.Die Housing : 240g, Stroke guide : 60g, Indent Dies : 280g Cutting Blade CU/AL, ACSR: 170g 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

**TBCT 400** 

# **Battery Operated Crimping&CuttingTools**

	TBCT 4	100G	
	Capacity(ton)		6.1
	Cutting	ACSR	Ø28
Thereas it	(Ø)	CU/AL	Ø32
	Stroke	e(mm)	36
	Size(mm)		383x327x80
	Weight(kg)		3.3
(STOKE GUIDE)	A ran applio	ge of cation	A range of crimling : 16~400mm <sup>2</sup> Hex. Type : 16~400m <sup>2</sup> (16,25,35,50,70,95,120,150,185,240,300,400) Indent Type : 16~240mm <sup>2</sup> (16,25,35,50,70,95,120,150,185,240) A range of cutting : ACSR Ø28, CU/AL Ø32 CCP cable, Lead cable, Underground cable Aluminum Conductor Steel Reinforced <b>* Stroke guide : INDENT DIES, CU/AL</b>
(HEX,DIES) (CU/AL) (ACSR)	battery : 18V/5,0AH(18 Hex,Die Housing) : 24( Stroke guide : 60g, Indent Dies : 280g Cutting Blade CU/AL, 18V Li-ion/5,0AH (18		V Li—ion) 640g )g, ACSR : 170g V Li—ion) specification is sold separately, weight : 640g

### **Battery Operated Cutting Tool**



TBRC20				
Capacity(ton)	13			
Cutting Capacity(Ø)	21			
Stroke(mm)	20			
Size(mm)	427×323×80			
Weight(kg)	7.5			
A range of application	steel wire/steel bar, Reinforcing rod, Al/Cu bar			

\*Standard parts

► Cutting blade 1Set,

### **Battery Operated Cutting Tools**



#### TBRC55

	(mm)
Size(mm)	405x135x110
Weight(kg)	2.7(Battery excluded)
CCP cable	55
Lead cable	55
Underground cable	55
Cutting time	About 5 seconds(325m²1 Core, At 54ø)

\* 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g \* Charger : 220V, 60Hz

#### **TBCC32**

IBCC32	(mm)
Capacity(ton)	2.4
Size(mm)	116×456×80
Weight(kg)	2.3
CCP cable	32
Lead cable	32
Underground cable	32

\* 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

\* Charger : 220V, 60Hz

TBCC 32A (mm		
Capacity(ton)	6	
Size(mm)	120×465×80	
Weight(kg)	2.7	
ACSR	32	
CCP cable	32	
Lead cable	32	
Underground cable	32	

\* 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g \* Charger : 220V, 60Hz

### TRCC 32GA

IDCC JZCA	(mm)
Capacity(ton)	6
Size(mm)	435×350×80
Weight(kg)	3.6
ACSR	32
CCP cable	32
Lead cable	32
Underground cable	32

\* 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g \* Charger : 220V, 60Hz



### **Battery Operated Cutting Tools**



TBCC16 (m		
Capacity(ton)	2.4	
Size(mm)	116×454×80	
Weight(kg)	2.3	
CCP cable	16	
Lead cable	16	
Underground cable	16	
Wire rope(6×7)	16	
Wire rope(6×12)	16	
Wire rope(6×19)	16	

\* 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g
 \* Charger : 220V, 60Hz

### **Battery Operated Cutting Tools**



TBCC55 (mm		
Capacity(ton)	7.5	
Size(mm)	518×417×80	
Weight(kg)	4.9	
CCP cable	55	
Lead cable	55	
Underground cable	55	

\* 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

\* Charger : 220V, 60Hz



### TBCC85

	()
Capacity(ton)	7.5
Size(mm)	440×374×80
Weight(kg)	6.3
CCP cable	85
Lead cable	85
Underground cable	85

 $\,$  \* 18V Li–ion/5.0AH (18V Li–ion) specification is sold separately, weight : 640g

\* Charger : 220V, 60Hz

(mm)



TBCC40 / TBCC55B		
Model	TBCC40	TBCC55B
Capacity(ton)	8	8
Size(mm)	485×369×80	537×388×80
Weight(kg)	6.7	9.1
Wire rope(6×7)	22	25
Wire rope(6X12)	25	30
Wire rope(6×19)	25	30
Soft copper rod	22	35
Aluminum bar	20	28
Soft steel bar, Under SS400	20	22
Reinforcing rod	16	20
Cu strands	41.6(1,000mm²)	41.6(1,000mm²)
Al strands	40.7(980mm²)	46.2(1,260mm <sup>2</sup> )
ACSR	38.4(810mm²)	46.2(1,160mm²)
Guy wire(1×7)	15	15
Guy wire(1×19)	20	20
CCP cable	40	55
Lead cable	40	55
Underground cable	40	55

\* 18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g
 \* Charger : 220V, 60Hz

### **Battery Operated Bolt Cutting Tools**



TBBC-12		
Capacity(ton)	4.5	
Stroke(mm)	27	
Size(mm)	383×332×80	
Weight(kg)	4.5	
A range of application	Full Threaded Bolt (SS400) 1/2", 3/8"	

\*standard parts

►Cutter knife 1/2", 3/8" Set,

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g



### TBBC-38

Capacity(ton)	2.8
Stroke(mm)	21.5
Size(mm)	116×427×80
Weight(kg)	2.7
A range of application	Full Threaded Bolt (SS400) 3/8"

\*standard parts

►Cutter knife) 3/8" Set,

18V Li-ion/5.0AH (18V Li-ion) specification is sold separately, weight : 640g

#### TBC-12N



Capacity(ton)	7.5
Stroke(mm)	21.5
Size(mm)	75×260×68
Weight(kg)	3.1
A range of application	Full Threaded Bolt (SS400) 1/2", 3/8"

\*standard parts  $\rightarrow$  Cutter Knife 1/2", 3/8"







Battery Cutting Tools



TBRC 55

TBCC 32-A







TBCC 16

TBCC 32



TBCC 32-GA



ADE CYLINDER CASE CUTTER BASE BLAD BL HANDLE CYLINDER CYLINDER CASE CASE 0.000 0 C φ BLADE GUARD 0 TBRC POS . TECPOS 0 1111 0 11100 0 00000 GUIDE BODY RELEASE KNOB RELEASE KNO RELEASE KNOB SWITC SWITC SWITCH BATTERY BUTTO BATTERY BUTTO BATTERY BUTTON BATTERY BATTERY BATTERY

TBRC 20

TBCC 55

TBCC 40 / TBCC 55B

### The name of each part

Battery Operated Crimping Tools



TBCP 240



TBCP 25



TBCP 185/300



TBCP 630-40



TBCP400-20



TBCP 400-32



TBCP 400-40







TBCP 300G

### Battery Operated Crimping & Cutting Tools







TBCT 400G

\* It can be produced by various customizing.

### Stainless Pipe Joint Tools





JOINT

TBPS-64G

TBPE/TBPS

 Battery Operated Knock-out Punches



TBKOP-2

Battery Operated Punches





TPUN 1705



TRCT

### Battery Operated Stud Bolt Cutting Tools



TBBC12





### **TECPOS Battery Operated Tools**

### Advantages of battery operated tools

	Crimping Tools	Cutting Tools
Advantage	<ul> <li>Automatic return function after operation is complete</li> <li>Inexpensive (the same performance at lower price compared to other products)</li> <li>High effectiveness that can replace im- ported tools</li> <li>Larger pressure range compared to other products</li> <li>Fast customer service with domestic manufacturing</li> </ul>	<ul> <li>Automatic return function after operation is complete</li> <li>Inexpensive (the same performance at lower price compared to other products)</li> <li>High effectiveness that can replace im- ported tools</li> <li>Larger pressure range compared to other products</li> <li>Fast customer service with domestic manufacturing</li> </ul>
Operation light indication (status light)	Displays on the status light according to product status 1. Low battery (red light flashing) 2. High load (orange light flashing) 3. In operation (green light on)	Displays on the status light according to product status 1. Low battery (red light flashing) 2. High load (orange light flashing) 3. In operation (green light on)

### Power tools

- **Q** : Red lamp flash suddenly during operation.
- A: Yes. TECPOS's battery operated tools are equipped with a built-in work status display function.

There are different display functions (color display function, such as LED) depending on problems or conditions of tools during work.

Application	LED color display	Meaning of Hydraulic Tool LED
When the tool starts	Green light on	Normal
Insufficient battery power	Red light flash	Insufficient battery (charge the battery)
Motor overload	Yellow light flash	High loads (requires rest/idle time)
Board replacement	Green light flash	Memory value error (requires board replacement)

### **Q&A**

- **Q1**: The battery charger does not perform self-diagnose (lamp flashing). Why is that?
- A1: There is a very high possibility of malfunction in the outlet, plug, or charger. Seek solutions at our service center.
- **Q2**: The charger does not charge the battery.
- A2: There may be dust or foreign matter in the contacts between the charger plug and the main unit. Foreign substances can cause malfunction, so ensure all points are clean before charging.
- **O3**: When charging the battery, the lamp turns yellow and the battery does not charge. Why is that?
- A3 : The charger or battery is very hot (more than 40 degrees). Wait for charging until room temperature and charger temperature to fall below 40 degrees.
- Q4: The product works fine when testing without a cable inside. But when I connect the cable, it doesn't compress to the normal size.
- A4 : Check first whether the dies and cables comply with the stated specifications.TECPOS battery operated tools use IEC standard dimensions.Use dies and cables that comply with the dimensions.
- Q5: I understand that the manual pump integrated battery operated tools have an automatic return function. It cannot check whether the compression works. Also, the product does not return after compression.
- A5 : The TECPOS basic crimping tools have built—in automatic return functions.
  This return function detects pressure and automatically returns when pre—input pressure is reached.
  Manual (integrated pump) does not automatically return as it does not reach the set pressure.
  In such a case, operate the pump lever repeatedly.
  Automatically returns when the set pressure is reached.
- Q6: How many psi cable can the TBCC 85 model cut?
- A6 : For TECPOS cable cutting products, the maximum cutting size is provided behind the product name so that users can easily identify the model name.
   The cut dimensions are different for each cable specification and type,.

Please check the detailed specifications through your local distributor or our website.

- **07**: The crimped part does not return while using the product.
- A7 : Has the product experienced severe impact?
   Stop using the product (Cutter- Make sure there are no cable residues left on the piston or blade part))
   (Compressor- Check if the emergency switch is pressed while crimping operation)
   If there is no external problem, stop using and contact the nearest distributor or service center.
- **Q8**: After compressing the terminal, the protruding part (bead) is excessively exposed.
- **A8**: Have you used an IEC UL-marked terminal that complies with the standards? All TECPOS products comply with IEC (International Electrotechnical Commission) standards.

Technology Power System

# Hydraulic Tools **TECPOS Stainless Pipe Joint Tools**



### **Stainless Pipe Joint Tools**



TBPS-100	G		* Excluded Bettery Weight
Capacity(ton)	13	Stroke(mm)	63
Size(mm)	520×366×80	Weight(kg)	6.7
A range of application	Dual Ring / Single Ring 75, 80, 100SU		

### **TBPS-45G**

IBP	3-430			※ Excluded Bettery Weight
Сара	acity(ton)	6.1	Stroke(mm)	45
Siz	æ(mm)	314×450×80	Weight(kg)	4.3
A ra app	ange of Dication	Dual Ring 13, 20, 25, 30, 40, 50, 60		

\* Standard parts ► Battery(18V Li-ion 3.0Ah), Weight : 612g

### **TPS-45N**



1 <b>73-</b> 431			Without Pump
Capacity(ton)	6.1	Stroke(mm)	64
Size(mm)	360×70	Weight(kg)	3.1
A range of application	Dual Ring 13, 20, 25, 30, 40, 50, 60		
Using Pump	TMPM <sup>1</sup> / <sub>2</sub> , TDPM <sup>1</sup> / <sub>3</sub>		

\*Maximum Pressure : 450bar











#### Claw/30, 40, 50, 60 Joint

#### 13, 20, 25 R-Type Joint

# **Stainless Pipe Joint Tools**



### **TBPS (Dual Ring Joint Tool)**

IBPS (Dua	* Excluded Bettery Weight								
Capacity(ton)	6.1	Stroke(mm)	30						
Size(mm)	120x415x75	Weight(kg)	1.9						
A range of application	Du	Dual Ring 13, 20, 25							

\*Standard parts

**TPS-N** 

► Select Dies EQ or SR 3Set(13, 20, 25)



			* Without Pump					
Capacity(ton)	6.1	Stroke(mm)	30					
Size(mm)	360×70	Weight(kg)	1.2					
A range of application	Du	Dual Ring 13, 20, 25						
Using Pump	TM	IPM½, TDPM⅓						

\*Maximum Pressure: 400bar

### **TBPE (Single Ring Joint Tool)**

BPE (Sing	gie Ring Joint 1001)	* Excluded Bettery Weight							
Capacity(ton)	6.1	Stroke(mm)	30						
Size(mm)	120×415×75	Weight(kg)	1.9						
A range of application	Single	Single Ring 13, 20, 25, 30							

\* Standard parts

**TPE-N** 

▶ Battery(18V Li-ion 3.0Ah), Weight : 612g

# .

IPE-N			Without Pump					
Capacity(ton)	6.1	Stroke(mm)	30					
Size(mm)	360×70	Weight(kg)	1.2					
A range of application	Single	Single Ring 13, 20, 25, 30						
Using Pump	TN	IPM½, TDPM⅓						

\*Maximum Pressure : 400bar

#### 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.)
- 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

- 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.
- 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.
- 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.

### 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
100SUR	114.30	137.00	128.3	± 0.5

\* The above options are subject to change without prior notice.

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

SU	SU External		Tolerance for An External Diameter		Tolerance	Unit of Weight (kg/m)	
	Diameter	External Diameter	Circumference			STS304TPD	STS316TPD
8	9.25			0.7		0.154	0.155
10	12.70			0.8		0.237	0.239
13	15.88	+ 0 - 0.37	-	0.8		0.301	0.303
20	22.22			1.0	+ 0.12	0.529	0.532
25	28.58			1.0	± 0.12	0.687	0.691
30	34.00	± 0.34	± 0.20	1.2	+ 0.15	0.980	0.691
40	42.70	± 0.43		1.2		1.24	1.25
50	48.60	± 0.49	+ 0.25	1.2		1.42	1.43
60	60.50	± 0.60	± 0.23	1.5		2.20	2.21
75	76.30			1.5	± 0.15	2.79	2.81
80	89.10			2.0		4.34	4.37
100	114.30			2.0	± 0.30	5.59	5.63
125	139.80	+ 104		2.0		6.87	6.91
150	165.20	± 190		3.0		12.1	12.2
200	216.30			3.0	+ 0.40	15.9	16.0
250	267.40			3.0	± 0.40	19.8	19.9
300	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

### The name of each part

### Battery Operated Stainless Pipe Joint Tools



### **Exhibition Photo**

TECPOS attends domestic and foreign exhibitions every year to repay customers with improved quality and safety.
 We will contribute to the development of shipbuilding, railroad, and general industries by listening to our customers and producing high-quality hydraulic tools.



Technology Power System

# Hydraulic Equipment TECPOS Hydraulic Press & Equipment



### **Hydraulic Shop Press**

■ Wire Rope Swage Press





Shop Press(TSP)





### Specifications

Model	Capacity	Capacity Stroke		Dimension(mm)				Cylinder	Pump
	(ton) (m	(mm)		В	С	D	(kg)		
TSP-10	10	150	300	250	300	M36×P2.0	140	TSC10150	Llond Duran
TSP-20	20	150	350	250	390	M56×P2.0	240	TSC20150	Or Electric Pump
TSP-30	30	150	400	300	400	M62×P2.0	360	TSC30150	Licencerump

### **Hydraulic Shop Press**

### Shop Press



- Applicable to both single-acting and double-acting cylinders (can by manufactured to tailored specification)
- ② Ensures a wide range of operation and work environment
- ③ Height adjustment with simple pin operation
- ④ Distributes load through detailed processing and uses 2~4 fixing pins according to capacity.
- ⑤ Automatic lock prevents the bed from detaching when turning the handle; one-person operation
- (6) Fast work with manual and electric pumps

	•		
ш	0 0		
		•	

Capacity(ton)	Maximum Pressure(bar)	Hydraulic Coupler
20~200	700	TBC 381F(PT3/8)

• Push and pull with bearing, gear, and coupling when assembling products.

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

#### Specifications

\* The standard product can be customized to fit the working place comdition

### **Reel Stand**

Ratchet Type













### Specifications

Model	Capacity	Stroke	Retracted Height	Extended Height	Base Dimension
	(ion <i>)</i>		А	В	С
TRS 1.7	1.7	473	711	1184	622x584
TRS 2.0(HYD)	2.0 350		350	942	560x560



# Air Hydraulic Block Lift





### Specifications

Model	Out Force	Basic Height Extended Height C (mm) (mm)		Output Piston Stroke (mm)	Width(mm)	Length(mm)
	(ton)		В	С	D	
TABL200	200	1600	1900	300	615	995

### Specifications

Model	Pressure Capacity (bar)		Output Flow Rate (ℓ/mm)		Air–in Pressure	Air Motor		Require Oil	Reservoir Capacity	
	High	Low	High	Low	(bar)	HP	Vanes	RPM	(liter)	(liter)
DOUBLE V\V	700	130	1.32	6	5~8	2	4	3000	23	34

### Save all&Pene setter

### Specifications

Model	SAVE ALL				
Out Force(ton)	Oil Capacity (cc)	Stroke (mm)			
2	2400	470			
Retracted Height (mm)	Extended Height (mm)	Base Dimension (mm)			
	В	С			
1700	2170	800			





## **Hydraulic Equipment**

C-Section Steel Punching



Hydraulic Automatic Pullers

Block Lift(Heracles)



Table Lift





Shop Press



10ton C-type Press



Aluminum Lock Nut Cylinder



# **Hydraulic Equipment**

• Steel Supports removing Hydraulic JIG : Used in removing steel supports for shipblocks.



500ton Press : Press may be used horizontally for special applications with user-spplied supports. Block Lift : Usually used to set heavy duty shipblocks when shipbuilding.



30ton power forming press : Using Single-Acting 30ton Cylinder.



Plate Cutters



Battery Block Lift



Battery Block Lift



### **Multi Table Lift**



### **Battery Operated Block Lift**



Technology Power System

# Hydraulic Accessories TECPOS Hydraulic Accessories



### **Solenoid Control Valve**



#### Features

- 4way/3 position-type control valve
- Select and use products suitable for 2 types, 7 conditions
- Low switching noise and long service life
- No leakage, high efficiency, 100% operating ratio
- Plug-in type for convenient coil exchange

#### Ordering code



#### Specification

FUNCTION	DESIGENATION NAME	OPERATED	FUNCTION	DESIGENATION NAME	OPERATED
Н	All port open		Т	T port blocked	
AB	All port blocked		В	B port blocked	
PT	Center bypass		A	A port blocked	
Ρ	P port blocked				
#### DSV 700-4/3-01-\*

• Maximum operating pressure : 700bar • Discharge : 35 l /min • Weight : 1.7kg



### ■ SUB-PLATE

Ordering code : SB-01-10
 Solenoid valve and manual valve common
 Weight : 700g



## **Solenoid Control Valve**



#### Features

- 3way/2 position directional control valve.
- Automatic type valve.
- For single-acting cylinder.
- Power 220V single phase.
- Mount valves according to the dimensions below.



#### Ordering code



#### Specification

- Maximum operating pressure: 700bar
- Discharge: 70 ℓ /min
- Weight : 1.8kg

FUNCTION	DESIGENATION NAME	OPERATED
Т	T port blocked	

## **Pilot Check Valve**



#### Features

- 4way/3 position valve.
- For single-acting and double-acting cylinders.
- Block one port of single-acting cylinder.
- Choose from two flow rates.
- Mount valves according to the dimensions below.

#### Ordering code



#### Specification

#### DPV-700-01

- Maximum operating pressure : 700bar
- Discharge : 35 l /min
- Weight : 1.4kg



### **Flow Control Modules Valve**



#### Features

- 4way/3 position valve.
- Valve with modular flow and speed control.
- Controls the hydraulic cylinder speed.
- Mount valves according to the dimensions below

#### Ordering code



#### Specification

#### DFV-700-01

- Maximum operating pressure : 700bar
- Discharge : 35 l /min
- Weight: 1.5kg



# **Relief Valve**



#### Features

- 4way/3 position valve.
- Safety valve controls the maximum pressure.
- Valve with low pressure fluctuation.
- Mount valves according to the dimensions below

Ordering code



### Specification

#### DVP-700-01

- Maximum operating pressure : 700bar
- Discharge : 35 l /min
- Weight: 1.7kg



## **Manual Control Valve**



#### Features

- 4way/3 position valve.
- For single-acting and double-acting cylinders.
- Use according to 4 functions (H, AB, PT, P)
- Mount valves according to the dimensions below.

Ordering code	FUNCTION	DESIGENATION NAME	OPERATED
<b>DMV - 700 - 4/3 - 01 - H</b>	н	All port open	
POSITIONS  PORT  PRESSURE 700bar  MANUAL VALVE	AB	All port blocked	
	PT	Center bypass	
	Ρ	P port blocked	

### Specification

#### DVP-700-01

- Maximum operating
  pressure : 700bar
- Discharge: 35ℓ/min









### Ordering code





### Specification

- OPERATING PRESSURE : MAX. 2000bar
- FLOW RATE MAX. : 30 ℓ /min



### **Pressure Switch**



- Pressure control switch for 20 to 250 MPa, used for electric pumps of each specification
- Features
  - Accurate operating pressure settings for electric pump
  - Setting handle over-rotation prevention pin installation
  - Pressure switch safety ensured with setting fixing bolt
  - Maintaining of setting state
  - Easy to attach to spring case and electric pump through switch adapter assembly

#### Exterior composition

Case, pressure setting handle, fixing bolt, screw



Туре	Pressure Working Rarge MPa (bar)	Maximum operating pressure MPa (bar)	Maximum scale Pressure MPa (bar)	Mounting screw	Weight (kg)
DS-700	20~70(200~700)	70(700)	10(100)	PT3/8″	0.5
DS-1000	20~100(200~1000)	100(1000)	5(50)	PF1/2"	1.6
DS-2000	100~200(1000~2000)	200(2000)	5(50)	PF1/2"	1.6
DS-2500	100~250(1000~2500)	250(2500)	5(50)	PF1/2"	1.6

# **Hydraulic Valves**

#### Inline Check Valve

Permits flow hydraulic oil one direction only.



#### Needle Valve

Adjust cylinder acting speed by adjusting oil capactiy.



#### Ball Valve

Can be used as shut-off valve for temporary load holding.



50x24

Road Holding Valve





# **Hydraulic Couplers**









Model	Max Working pressure	Set	Application
TBC 384 WM	720bar	TDC 204	3/8" PT. One Touch Type Male Coupler
TBC 384 WF	7200ar	100 304	3/8" PT. One Touch Type Female Coupler

NPT 1/4	NPT 1/4

ALC: NOT

Model	Max Working pressure	Set	Application
TBC 14 M	720bar		1/4" NPT. One Touch Type Male Coupler
TBC 14 F	720081	TBC 14	1/4" NPT. One Touch Type Female Coupler

# **Hydraulic Couplers**





### **Hydraulic Accessories**

ltem	Model	Application
001	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
0	TMFY 2529	For use of two cylinders with one pump 3-Port Manifold





















911111	PF1/2 HEX 30 PT 3/8	Model	Max Working pressure	Application
	48	A711	700bar	PF 1/2" Female Type = PT 3/8" Male Type







9/16x18 UNF	Model	Max Working pressure	Application
	A715	2500bar	9/16-18UNF" Female Type = PF 1/2" Female Type





Model	Max Working pressure	Application
A716	700bar	PT3/8" Male Type = PT3/8" Male Type



Model	Max Working pressure	Application
A717	700bar	PT 1/4" Male Type = PT 1/4" Male Type









# Fitting







Model	Max Working pressure	Application
		Street Elbow
P705	2500bar	From : PF 1/4"
		TO:PF 1/4"





Model	Max Working pressure	Application				
P706	2500bar	Street Elbow				
		From : PF 1/4"				
		TO: PF 1/4"				



Model	Max Working pressure	Application			
	700bar	Street Tee			
P707		From : PT 1/4"			
	7000ar	TO:PT 1/4"			
		TO:PT 1/4"			



PT1/4





# **Gauge Adaptor**





Model	Max Working pressure	Application		
G702		Gauge Block		
	700bar	From : NPT 3/8"		
		TO:NPT 3/8"		



Model	Max Working pressure	Application			
		Gauge Adaptor			
G703	4000bar	Gauge Adaptor From : PF 1/2"			
		TO:9/16x18UNF"			



Model	Max Working pressure	Application				
		Gauge Adaptor				
G704	2000bar	From : PF 1/2"				
		Gauge Adaptor From : PF 1/2" TO : PF 1/2"				



Model	Max Working pressure	Application			
G705	700bar	Gauge Block			
		From : PT 3/8" TO : PT 3/8"			

## **Gauge Adaptor**



Model	Max Working pressure	Application		
		Gauge Block		
G706	700bar	From: PT 3/8"		
		TO:PT 1/4"		



Model	Max Working pressure	Application				
G707		Gauge Block				
	700bar	From : PT 1/4"				
		TO:PT 1/4"				



Model	Max Working pressure	Application				
G708		Gauge Block				
	700bar	From : NPT 1/4"				
		TO:PT 1/4"				

	PT1/4	PT1/4	Model	Max Working pressure	Application
			G709	700bar	Gauge Adaptor Elbow
					From : PT 1/4"
		PT1/4 27			TO:PT 1/4"



# Gauge



MODEL	Scale max working pressure(bar)	Scale max working pressure(Mpa)	Category	Connection	Туре
G6310	0~1000bar	0~100Mpa	63 ø	PT 1/4"	
G1010	0~1000bar	0~100Mpa	100 ø	PF 1/2"	
G1016	0~1600bar	0~160Mpa	100 ø	PF 1/2"	
G1020	0~2000bar	0~200Mpa	100 ø	PF 1/2"	
G1025	0~2500bar	0~250Mpa	100 ø	9/16 18UNF	
G1030	0~3000bar	0~300Mpa	100 ø	9/16 18UNF	A-Type
G1040	0~4000bar	0~400Mpa	100 ø	9/16 18UNF	
G1610	0~1000bar	0~100Mpa	160 ø	PF 1/2"	
G1616	0~1600bar	0~160Mpa	160 ø	PF 1/2"	
G1625H	0~2500bar	0~250Mpa	160 ø	9/16 18UNF	
G1640H	0~4000bar	0~400Mpa	160 ø	9/16 18UNF	