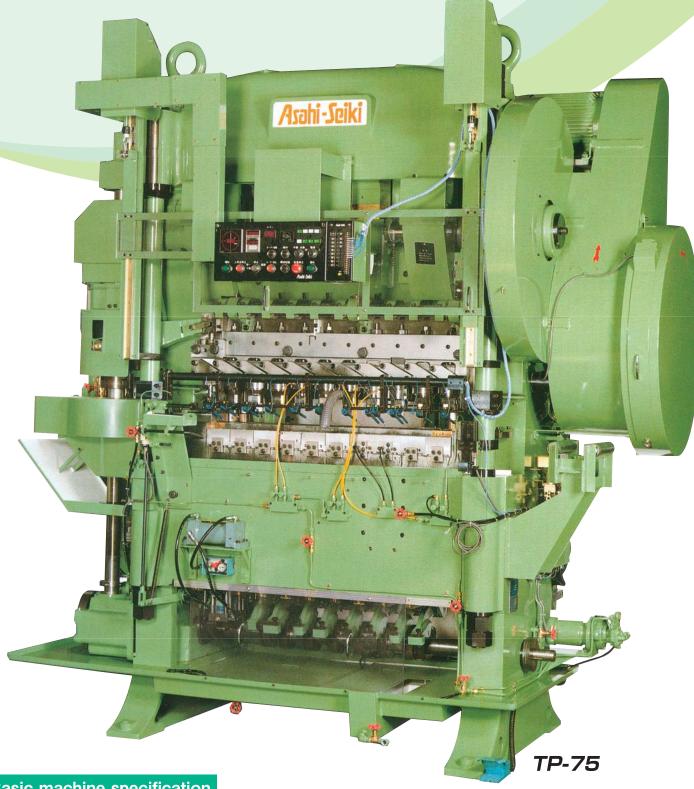
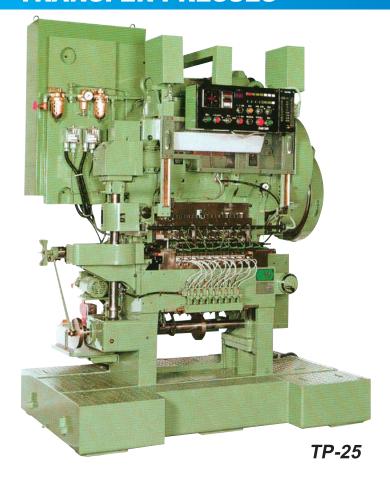
TP-15 TP-25 TP-45 TP-75 TP-100 TP-150 TP-45D TP-65D



Basic machine specification

Machine model		TP-15	TP-25	TP-45	TP-45D	TP-75	TP-65D	TP-100	TP-150	
Rated capacity	kN	150 (15ton)	250 (25ton)	450 (45ton)	450 (45ton)	750 (75ton)	650 (65ton)	1000(100ton)	1500 (150ton)	
Recommended capacity	kN	90 (9ton)	160 (16ton)	300 (30ton)	300 (30ton)	550 (55ton)	450 (45ton)	700 (70ton)	1050 (105ton)	
Standard ram stroke	mm	38.1	50.8	63.5	127.0	76.2	177.8	152	152	
Max. ram stroke	mm	50.8	76.2	101.6	_	127	203.2	178	_	
Shut height	mm	219.1	254.0	330.2	387.4	457.2	508.0	550.0	540	
Main motor	kw	2.2(4P)	3.7(4P)	5.5(4P)	7.5(4P)	11 (4P)	15(4P)	30(4P)	45(4P)	
Machine speed	spm	50~250	50~200	40~150	40~150	25~100	25~100	25~70	20~60	
Height×Width×Depth	mm	2,000×1,440×1,780	2,210×1,670×1,850	2,590×2,280×1,410	2,680×2,300×1,380	3,020×2,930×1,480	3,840×3,120×2,050	4,100×3,700×2,000	4,800×3,930×2,750	
Machine weight (incl. die set)	ton	1.5	2.7	5.5	6.0	10.2	18.0	28.0	45.0	

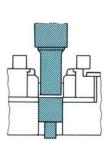




Blanking Drawing Bottom forming Trimming Embossing Trimming Embossing Trimming Embossing Trimming Embossing

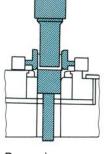
Ram going down

Workpiece is held between punch and knockout tool and pushed down into die.



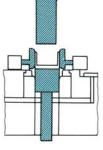
Ram lower dwell

Drawing is completed.



Ram going up

Workpiece is raised to transfer level and held by transfer fingers.



Ram upper dwell

Workpiece is carried by transfer fingers to the next station.

Standard accessories

- ●Inverter motor
- Air clutch brake
- Lower knockout mechanism
- ■Back roll feed mechanism
- ●Transfer mechanism
- Vertical transfer mechanism
- Automatic lubrication device
- ●Air valve device

- Finger stop mechanism
- Operation box and control box
- ●0il pan
- ■Machine lamp
- Outlet for 100V & 200V
- Transfer slide support (for 45 ton and upper size machines)

Special accessories

- Punch stripper & stop relief device
- Front & rear cross motion device / Front or rear cross motion device
- Zig-Zag feeding device
- ●CNC Zig-Zag feeding device
- Blank holder device
- ●Upper knockout device
- ●Thread rolling device
- Oil lubrication device (Drop type)
- Workpiece transfer detecting device
- ■Box type base
- Vacuum device
- ●Full cover

- Automatic reel stand and take-up reel or scrap cutter
- Knockout releasing device
- Camless sequence control (with resolver)
- Status indicator light
- ●Blank feeding device
- Soap water lubrication device
- Trimming device
- Reversing device
- Die cooling device
- Double working device
- Execution for machine oil
- Special painting (Per customer's request)
- Sound insulation cover

TRANSFER PRESSES

■Die set

Die bed

2 Punch plate

3 Blanking die holder

4 Die holder (#2 and subsequent stations)

5 Die holder plate

6 Die holder key

Upper blanking block

8 Blanking adjust screw

9 Adjust screw

10 Punch holder clamp

11 Punch holder (#1 station)

12 Punch holder (#2 and subsequent stations)

13 Punch holder cap

14 Guide bush

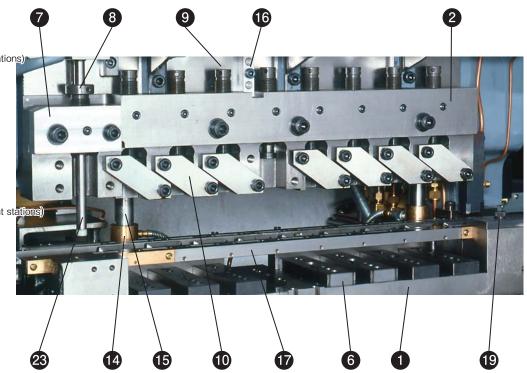
15 Guide post

16 Locating block

17 Transfer slide

18 Finger key

19 Cap



Tooling

20 Die

21 Blanking stripper

22 Blanking punch (#1 station)

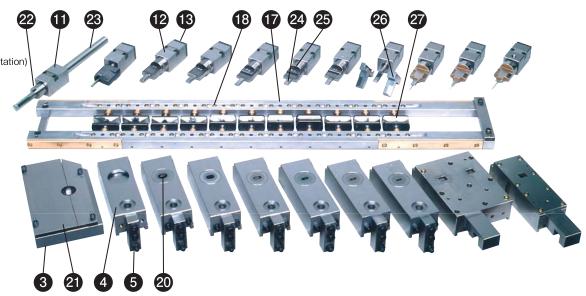
23 Upper plunger (#1)

24 Punch

25 Stripper thimble

26 Finger spreader

27 Finger

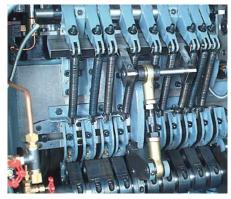


Die set

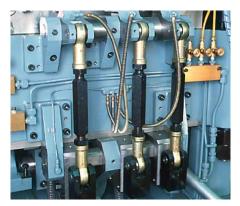
Machine model			TP-15			TP-25					TP-45					TP-	45D	TP-75					TP.	-65D	Т	TP-100			TP-150		
Max. draw (Standard ram stroke)	mm		15.9			20.6					25.4				57	7.2	31.8					7	6.2	65.0			65.0				
Max. draw (Max. ram stroke)	mm	20.6			31.8					41.3				-	_	57.2				8	87.0		76.0		_						
Max. width of material	mm		7	' 0		98					114					11	14		168				1	168		168		168			
Max. feed length of material	mm		7	70		76					82				82		102				102		102		102						
Number of stations (standard)		7	9	10	11	8	9	11	13	15	8	9	10	12	14	10	12	9	10	11	12	14	11	12	11	12	16	9	11	14	
Center distance between stations	in	21/2	2	13/4	11/2	3	21/2	2	13/4	11/2	41/2	4	31/2	3	21/2	31/2	3	51/2	5	41/2	4	31/2	41/2	4	140m	127m	95	173mm	140mm	109mm	
Max. blank diameter for blanking only	mm	38.1	31.8	25.4	19.1	50.8	41.3	31.8	25.4	19.1	69.9	63.5	57.2	50.8	38.1	57.2	50.8	95.3	82.6	69.9	63.5	57.2	69.9	63.5	91.0	82.0	62.0	112	91.0	66.0	
Max. blank diameter for blanking & cupping	mm	44.5	44.5	36.5	36.5	57.2	57.2	47.6	47.6	38.1	69.9	69.9	69.9	63.5	50.8	76.2	63.5	95.3	85.7	85.7	85.7	76.2	98.4	198.4	95.0	86.0	81.0	119	95.0	75.0	

TP series

TRANSFER PRESSES



■Punch stripper & stop relief device is to strip workpieces from punchs at the stations workpieces cling to punches.



Cross motion device is mounted at the front or rear of the machine in order for cross-piercing, slotting and forming.



■ Zig-Zag feeding device is a mechanical feeder to feed material zig-zag by 2 rows and 3 rows.



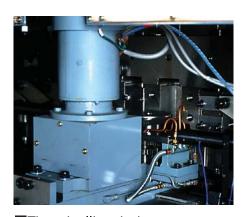
ECNC Zig-Zag feeding device is a 2 axis CNC feeder to feed material zig-zag. Inputting blank diameter and bridge width makes automatic calculation of feeding length and swinging distance.



■ Blank holder device is used at #2 and subsequent stations to support drawing operation.



■ Upper knockout device is to knockout workpiece downward during the forming, using inside of punch.



■Thread rolling device
is mounted at the right end or middle of
the machine in order for thread rolling,
cutting and beading on workpieces.



■Oil lubrication device
is to supply drawing oils by compressed air
from reservoir into dies to lubricate
material during drawing operation.



Workpiece transfer detecting device is to detect mis-transfer of workpieces between the stations to stop the machine and avoid tool breakage.



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