

- 8) Working temperature: 0°C ~ 40°C
 Power: Three phase four wire system
 AC Voltage: 380V
 Fluctuation of voltage: ±10%
 Frequency: 50 Hz

2. List of accessories and spare parts of AP16A-8

No	Code	Name	Quantity	Remark
1	AP16.2-27	die	12	16-8, 16-12, 20-8, 20-12, 25-8, 25-12, 2 pieces each
2	BL16.5-31A	Punching head	6	φ17.6, φ21.6, φ25.6, 2 pieces each
3	BL90.5-83	Ring spanner	1	
4		paint (with hardener)	2 barrels	
5		Computer program CD	1	
6	SM	Mechanical instruction manual	1	
7	SM	Electric instruction manual	1	
8	SM	The Program Manual	1	
9		The Drawing of Wearing Parts	1	
10		Maintenance Manual	1	
11	ZM	Quality Certificate	1	
12	ZD	Packing List	1	

3. List of the main outsourcing components of AP16A-8

No.	Name	Brand	Country
1	Servo Motor	Panasonic	Japan
2	Servo Driver	Panasonic	Japan
3	PLC	Mitsubishi	Japan
4	Cylinder	SMC	Japan
5	Solenoid Valve	Airtac	Taiwan C
6	AC Contactor	Schneider	France

Note: The above is our fixed supplier; if the supplier cannot supply the components in case of any special matter, we will adopt the components with the same level, but the quality is no worse than the above.



Semiautomatic CNC Punching Machine for Angles Model AP16A-8

1. Technical Specification of AP16A-8

- 1) Angle size: $40 \times 40 \times 3 \sim 125 \times 125 \times 12 \text{mm}$ Max. length: 8m
- 2) Max. punching diameter: $\phi 25.5 \text{mm}$
Kinds of diameter: 2
- 3) The stadia:

If the flange $\geq 40 \sim 63 \text{mm}$,	it will $\geq 20 \text{mm}$
If the flange $\geq 70 \sim 100 \text{mm}$,	it will $\geq 32 \text{mm}$
If the flange $\geq 110 \sim 125 \text{mm}$,	it will $\geq 42 \text{mm}$
- 4) Min. end distance: 25mm
- 5) Servo motor power:

X axis (side baffle)	:	1.5KW
Y axis (change of stadia)	:	1.0KW
- 6) This price includes CNC side baffle device, CNC stadia altering device, double punches device of pneumatic control, left loading frame and one set of 80 tons mechanical pressing machine.
- 7) Layout: **A or B type**

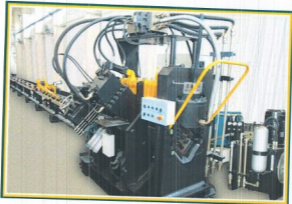
14		The Wrench for Tightening the Punches	1	
15		Tools for Puff	1	

Note: The above spare parts include the spare parts installed in the machine.

3. Main outsourcing components list of APM1616

No.	Name	Brand	Country
1	AC Servo Motor	Panasonic	Japan
2	AC Servo Motor	Panasonic	Japan
3	PLC	Mitsubishi/Yokogawa	Japan
4	Main hydraulic valve	ATOS	Italy
5	Pneumatic solenoid valve	SMC/CKD	Japan
6	Die Changing Cylinder	SMC/CKD	Japan
7	Filter-Regulator-Lubricat or Combination Units	SMC/CKD	Japan
8	towline	CPS	Korea

Note: The above is our fixed supplier. If the supplier can not supply the components in case of any special matter, we will adopt the components with the same level, but the quality is no worse than the above.



(picture for reference)

CNC Punching, Marking and Cutting Machine for Angles Model APM1616

1. Technical specification of APM1616

- 1) Angle size: $\angle 40 \times 3 \sim \angle 160 \times 16$ (Q345)
- 2) Max. punching diameter: $\varnothing 26\text{mm}$
Nominal punching force: 950kN
- 3) Nominal marking force: 1030kN
- 4) Nominal Cutting force: 3000kN
- 5) Max. length of the raw angle: 12m
- 6) Quantity of punching head per side: 3
- 7) The quantity of punching row per side: arbitrariness
- 8) Quantity of character group: 4 group
- 9) Dimension of characters: 14×10×19mm
- 10) Cutting mode: Single-blade cutting
- 11) Quantity of axes: 3
- 12) Infeeding speed : 40m/min
- 13) Overall dimension: Approx. 27×7×2.2m
- 14) Weight: Approx. 16t
- 15) The finished angle conveyor is rotated to one side by pneumatic power, the max. length of finished angle is 8 m.
- 16) There are four sets of transverse conveyor, infeed automatically and intermittently.
- 17) Type of programming: keyboard input, USB interface input, floppy disc input.

- 18) Layout: B type
 19) Working environment:
 Working temperature: 0°C – 40°C
 Power: Three phase four wire system
 AC Voltage: 380V
 Fluctuation of voltage: ±10%
 Frequency: 50 Hz

2. Accessories and spare parts list of APM0908

No.	Name	Quantity	Remark
1	Punches for test run	12	Including the claw installed in the machine
2	Female Dies for test run	24	
3	The Upper Blade	2	
4	Short nether Blade	2	
5	Long nether blade	2	
6	Die carrier	5	
7	Poles of the Punches	5	
8	Nuts of the Punches	5	
9	The Upper Claw	2	
10	The Nether Claw	2	
11	Springs of Every Parts	1set	
12	Pressure oil can	1	
13	Pneumatic gun	1	
14	Common tools (including full set of inner hexangular spanner, 500, 300,150MM adjustable spanner, two solid spanner, a set of screwdriver)	1batch	
15	Standby paint	2 kegs	
16	The Wrench for Tightening the Punches	1	
17	Tools for Puff	1	
18	The Drawing for wearing Parts	2 volume	
19	The Drawing for Maintenance	2 volume	
20	Quality Certificate, Packing List	1 volume	
21	Instruction Manual(mechanical part, electric part, hydraulic part)	2volume	

Note: The above spare parts include the spare parts installed in the machine.

3. Main outsourcing components list of APM0908

No.	Name	Brand	Country
1	AC Servo Motor	Panasonic/Mitsubishi	Japan
2	PLC	Yokogawa/Mitsubishi	Japan
3	Input module	Yokogawa/Mitsubishi	Japan

4	Output module	Yokogawa/Mitsubishi	Japan
5	Orientation module	Yokogawa/Mitsubishi	Japan
6	Towline	Igus/CPS	Germany/Korea
7	Solenoid unloading valve	ATOS	Italy
8	Electro-hydraulic Valve	Justmark	Italy
9	Manifold	AirTAC	Taiwan, China
10	Air Valve	AirTAC	Taiwan, China
11	Cylinder	SMC/CKD	Japan
12	Filter-Regulator-Lubricator Combination Units	SMC/CKD	Japan

Note: The above is our fixed supplier. If the supplier can not supply the components in case of any special matter, we will adopt the components with the same level, but the quality is no worse than the above.

SHANDONG WLWE INTELLIGENT EQUIPMENT CO., LTD.

Oct. 27, 2022



Attachment of Proforma Invoice (No.: WLWL221027)



(APM0908 picture for reference)

CNC Punching, Marking and Cutting Machine for Angles Model APM0908

1. Technical specification of APM0908

- 1) Angle size: $\angle 40 \times 3 \sim \angle 90 \times 8$ (Q345)
- 2) Max. punching diameter: $\Phi 25.5$ mm (8mm thickness, Q345)
Nominal punching force: 350kN
- 3) Nominal Marking force: 540kN
- 4) Nominal Cutting force: 1000kN
- 5) Max length of the raw angle : 12m
- 6) Quantity of punching head per side: 2
- 7) The quantity of punching row per side: arbitrariness
- 8) Quantity of character group: 4 group
- 9) Dimension of characters: 14×10mm
- 10) Cutting mode: Single-blade cutting
- 11) Quantity of CNC axes: 3
- 12) Cooling mode: water cooling
- 13) Angle feeding Speed: 60m/min
- 14) The size of machine: 25×7×2.2m
- 15) The finished angel conveyor is rotated to one side by pneumatic power. The max. length of finished angel is 8 m.
- 16) There are four transverse conveyors which can infeed automatically and intermittently.
- 17) Type of programming: keyboard input, USB interface input, floppy disc input.

- 8) Weight: Approx. 6500kg
- 9) Cooling mode: water cooling
- 10) Working temperature: 0°C~40°C
 - Power: Three phase four wire system
 - AC Voltage: 380V
 - Fluctuation of voltage: $\pm 10\%$
 - Frequency: 50 Hz



Hydraulic Notching Machine for Angles Model ACH200

Main specification of ACH200

- 1) Nominal force: 1000KN
- 2) Rated pressure of hydraulic system: 22MPa
- 3) Dry running times: 16 times/minute
- 4) Max. size of workpiece
 - Single blade cutting: 200×200×20mm (Q235-A, $\sigma_b=410\text{MPa}$)
200×200×18mm (Q420, $\sigma_b=680\text{MPa}$)
Cutting angle $0^\circ\sim45^\circ$
Max. length of cutting: 300 mm
 - Right angle cutting : 200×200×16mm(Q235-A, $\sigma_b=410\text{MPa}$)
200×200×12mm(Q420, $\sigma_b=680\text{MPa}$)
- 6) Motor power of hydraulic pump (kW): 18.5kw
- 7) Overall dimension: 2635mm×1200mm×2090mm

J23

系列普通型开式可倾压力机 series general open front inclinable press



J23-25A



J23-40A



J23-63A



J23-80A

- ◆ 采用曲轴横放结构;
- ◆ 刚性转键式离合器;
- ◆ J23-63A/80A为双转键结构;
- ◆ 手动调模, 刻度显示;
- ◆ "A" 型机床均装有紧急制动装置, 可以使滑块急停于0°~135°范围内, 并可选配光电保护器。

- ◆ Horizontal crankshaft.
- ◆ Rigid rotated key clutch.
- ◆ J23-63A/80A dual rotated key structure.
- ◆ Manual die height adjustment with scale display.
- ◆ Emergency stop mounted on A type presses to stop slide within 0°~135°, light curtain is optional.

压力机技术参数 (Press Specification)

名称 Description	技术参数 Specification	型号 Type	J23-63	J23-108	J23-16	J23-168	J23-25A	J23-35A	J23-40A	J23-63A	J23-63A	J23-80A	J23-80A
公称力 Nominal force	kN		63	100	160	160	250	350	400	630	630	800	800
公称行程 Nominal stroke	mm		3	4	5	5	5	5	6	8	8	9	9
滑块行程 Slide stroke	mm		35	60	55	70	80	100	120	120	120	130	130
行程次数 SPM	min ⁻¹		170	145	125	125	60	53	55	50	50	45	45
最大装模高度 Max die height	mm		110	130	160	170	180	180	220	270	270	290	290
装模高度调整量 Die height adjustment	mm		30	35	45	45	70	75	80	80	80	100	100
滑块中心至机身距离 Between slide center and frame	mm		110	130	160	170	210	200	260	260	260	270	300
工作台尺寸(前后×左右) Bolster (F×B×L/R)	mm		200×310	240×360	300×450	320×480	400×600	380×610	480×710	480×710	480×710	520×660	580×698
工作台面尺寸(上孔距×深度×下孔距) Eider opening (up dia×depth×low dia)	mm		660	610×20 ×610	6100	6100	6120	6130	6220×25 ×6160	6200×45 ×6180	6200×45 ×6180	6200×45 ×6180	6208×45 ×6180
工作台面厚度 Bolster thickness	mm		40	50	40	60	70	70	80	90	90	100	100
机身T形孔尺寸(直径×壁厚×左右) Eider opening (Dia×F×B×L/R)	mm		140×110 ×160	113×100 ×180	628×160 ×240	6210×160 ×240	6180×130 ×280	6180×130 ×290	6206×150 ×340	6250×200 ×340	6250×200 ×340	6250×200 ×340	6280×220 ×388
滑块底面尺寸(前后×左右) Slide area (F×B×L/R)	mm		120×148	150×170	180×200	180×200	210×250	210×250	270×320	280×320	280×320	280×380	280×380
模柄孔尺寸(直径×深度) Shank hole (Dia×Depth)	mm		φ30×55	φ30×55	φ40×60	φ40×60	φ40×70	φ40×70	φ50×70	φ50×80	φ50×80	φ60×75	φ60×75
机身最大可倾角度 Max. inclined angle	°		30°	25°	25°	25°	25°	25°	25°	25°	25°	20°	20°
立柱间的距离 Between columns	mm		150	180	220	220	260	300	300	350	350	410	410
主电机功率 Main motor power	kW		0.75	1.1	1.5	1.5	2.2	3	4	5.5	5.5	7.5	7.5
外形尺寸(前后×左右×高) Outline dimension (F×B×L×R×H)	mm		780×610 ×1505	915×700 ×1690	1150×900 ×1910	1150×900 ×1910	1325×990 ×2140	1480×1100 ×2200	1600×1180 ×2640	1810×1260 ×2670	1885×1350 ×2790	1810×1410 ×2790	1900×1480 ×2945
净重 Net weight	kg		380	600	1080	1100	1900	2440	3100	4000	4870	4790	6000

Technical Specifications of WC67Y-250/2500 Press Brake

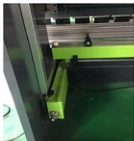


Main parameter

Working force	2500	KN
Length of working table	2500	mm
Distance of column	1850	mm
Throat depth	320	mm
Slide stroke	250	mm
Open height	565	mm
Approach speed	100	mm/s
Working speed	7	mm/s
Return speed	55	mm/s
Main motor power	18.5	KW
Overall size(LXWXH)	2800X2100X3050mm	mm
Machine weight	11500Kg	

Performance

1. The torsional axis mechanical synchronization, synchronization performance is good, good rigidity.
2. The frame is entirely welded with steel plates, With nice appearance, high strength and good rigidity
3. Random equipped one set standard upper and lower die(Special specification can be provided according to customer's requirements).
4. The system adopts E21
5. E21 Control Axes (2Axis)
Y Axis——Movement up and down of the slide stroke.
X Axis——Movement forward and backward of the back gauge.



Main equipment:

1. The system: E21
2. The valve: American Omega valve
3. Pump: China
4. Sealing: Japan NOK
5. Main electric parts: /SIEMENS /TELEMECANIQUE

Technical documents:

1. Operation Manual
2. Certificate of quality
3. Packing list
4. System operation manual