

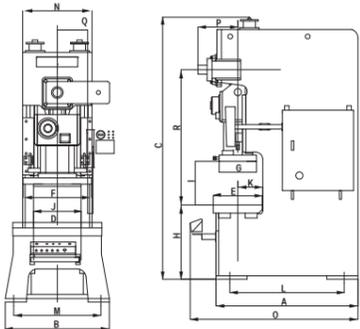
# APA SERIES

High precision power press machine

15T~400Tons

APA系列高精密强力钢架冲床

- In order to guarantee relative stationarity of machine operation, it is necessary to balance two balancers.
- Moulding-adjustment precision is as high as 0.1mm, safe, speedy, and reliable.



- 为保证机器运转的相对平稳性，采用对称两只平衡器装置设计方式。
- 调模精密高达0.1mm，安全、便捷、可靠。



## 性能特点 Performance feature

- With high rigidity rack design, they are welded with the use of high-quality steel plates, through relieving of internal stresses, so that stability and reliability of the whole machine in precision are enhanced.
- Consistent driving center and machine center to guarantee accurate and stable punching.
- Through hard oxidation and grinding, such parts as bent axles, gear sets, and connecting rods possess higher combination property and tolerance.
- Adopt highly sensitive and reliable clutch/brake and internationally top duplex magnetic valve, as well as overload protection devices, to guarantee precision and safety for operation and stop of press rams.
- Machine's structural design shall be reasonable, for the convenience of realizing automatic production, reducing cost, and improving efficiency.
- Possess advanced design concepts, low noise, low consumption, and energy saving.
- 高刚性机架设计，采用优质钢板焊制，经过消除内应力工艺处理，提高了整机精度的稳定性和可靠性能。
- 传动中心与机器整体的中心一致，确保冲压的精确、稳定。
- 曲轴、齿轮组、连杆等部件，经硬氧化和研磨等工艺处理后，具有极高的综合性能和耐用性。
- 采用高度灵敏、可靠的离合器/刹车器装置和国际顶尖的双联电磁阀，过载保护装置，确保压力机滑块运转及停止的精确性与安全性。
- 机器结构设计合理，便于实现自动化生产，降低成本，提高效率。
- 先进的设计理念，低噪音，低消耗，节省能源。

## 标准配置 Standard configuration

- 变频器
- 油压式过载保护装置
- 电动式黄油润滑装置
- 手动式滑块调整装置 (60Tons及以下)
- 电动式滑块调整装置(80Tons及以上)
- 机械式模高指示器(60Tons及以下)
- 电动式模高指示器(60Tons及以上)
- 滑块及模具平衡装置
- 旋转凸轮开关
- 误送检测装置
- 电源插座
- 曲轴角度指示器
- 计数器
- 空气源接头
- 二度落保护装置
- 喷风装置
- 维护工具及工具箱
- 使用说明书
- Inverter
- Hydraulic over-load protector
- Electrical automatic lubrication system
- Manual slide adjust device (60Tons and below)
- Slide adjust device(80Tons and above)
- Automatic die height indicator (60Tons and below)
- Die high indicator (60Tons and above)
- Balance device
- Rotary cam switch
- Misfeed detection consent
- Power supply
- Crank angle indicator
- Electrical stroke counter
- Air source connector
- Against over-run safety device
- Air ejector
- Maintenance tool box
- Operation manual

## 选择配置 Optional configuration

- 湿式离合器
- 气压模垫装置
- 脚踏开关
- 快速换模装置 (举模器、夹模器或移模臂)
- 滑块上部打料装置
- 防震脚
- 光电保护装置
- 送料机(空气、机械及NC各类)
- 料架
- 矫平机
- 机械手
- 模具照明装置
- 触摸屏(预断、预裁、总计数)
- PAC100控制系统
- 人机控制系统
- High performance wet clutch & brake
- Pneumatic die cushion device
- Foot switch
- Quick die change device (die lifter, clamp and die arm sepjes)
- Slide knock-out device
- Anti-vibration press mount
- Photo-electronic safety device
- Feeder
- Uncoiler
- Straightener
- Mechanism hand
- Die light
- Touch screen(preset, total counter)
- PAC 100 counter system
- Human-computer counter system

## Overall dimension 外型尺寸

规格 Pecification	APA-15	APA-25	APA-35	APA-45	APA-60	APA-80	APA-110	APA-160	APA-200	APA-260	APA-315	APA-400
A	1080	1100	1200	1400	1420	1595	1720	2140	2140	2440	2440	2605
B	740	840	900	950	1000	1170	1290	1390	1490	1500	1500	1950
C	2098	2135	2345	2425	2780	2980	3195	3462	3612	4070	4470	4825
D	680	680	800	850	900	1000	1150	1250	1350	1500	1500	1600
E	300	300	400	440	500	550	600	760	820	820	840	900
F	470	470	520	560	700	770	910	990	990	1130	1130	1130
G	250	250	285	340	400	420	470	550	550	630	700	750
H	785	800	790	790	785	830	830	900	900	995	1030	1185
I	260	260	290	320	420	480	530	600	660	660	750	830
J	432	444	488	502	526	534	616	660	720	880	890	970
K	155	160	205	225	255	280	305	385	415	415	430	450
L	880	980	1040	1170	1180	1310	1420	1760	1760	1830	2005	2180
M	640	700	800	840	890	980	1100	1200	1300	1500	1560	1660
N	528	540	620	670	720	780	920	1000	1100	1260	1300	1420
O	1255	1275	1375	1575	1595	1770	1895	2420	2420	2735	2780	2780
P	278	278	278	313	333	448	488	545	593	688	688	723
Q	447	447	560	585	610	620	685	775	825	895	875	925
R	935	935	1073	1130	1378	1506	1650	1910	1970	2188	2460	2595

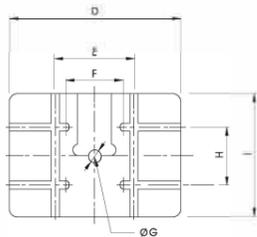
All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.

本公司随时进行研究改善的工作，因此本型录内所规定尺寸及设计特性，得以变更，不另行通知。

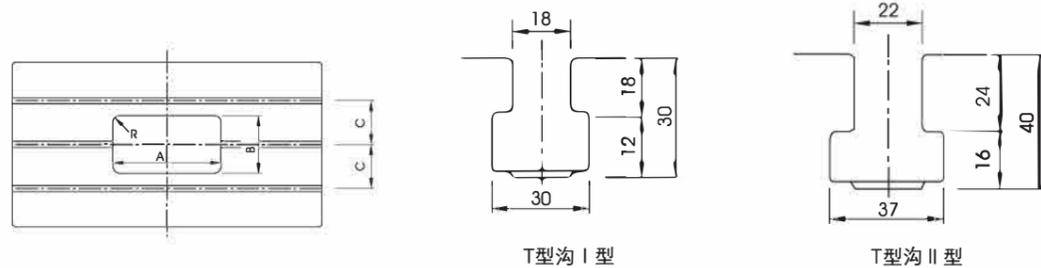
技术参数 Technical parameters

名称	Name	单位	APA-15	APA-25A	APA-25	APA-35	APA-45	APA-60	APA-80	APA-110	APA-160	APA-200	APA-260	APA-315	APA-400		
型式	Model		V型	V型	V型 H型	V型 H型	V型 H型	V型 H型	V型 H型	V型 H型	V型 H型						
吨数	Capacity	ton	15	25	25	35	45	60	80	110	160	200	260	315	400		
冲力发生位置	Rated tonnage point	mm	1	3.2	3.2 1.6	3.2 1.6	3.2 1.6	4 2	4 2	6 3	6 3	6 3	6 3	7 3.5	7 3.5		
每分钟行程数	变速	s.p.m	120-180	60-140	60-140 130-200	40-120 110-180	40-100 100-150	35-90 80-120	35-80 80-120	30-60 60-90	20-50 40-70	20-50 40-70	20-50 50-70	20-40 40-50	20-35 35-50		
	定速	s.p.m	130	110	110	85	75	65	65	50	35	35	30	30	30		
行程	Stroke	mm	60	80	60 30	70 40	80 50	120 60	150 70	180 80	200 90	200 90	200 100	250 150	280 170		
最大装模高度	Max.die height	mm	200	195	200 215	220 235	250 265	310 340	340 380	360 410	400 450	460 510	460 510	500 550	550 600		
滑块调整量	Slide adjustment	mm	50	50	50	55	60	75	80	80	100	100	110	120	120		
上工作台尺寸	Slide area	mm	470x250x50	470x250x50	470x250x50	520x285x50	560x340x60	700x400x70	770x420x70	910x470x80	990x550x90	990x550x90	1130x630x90	1130x700x100	1130x750x110		
下工作台尺寸	Bolster area	mm	680x300x70	680x300x65	680x300x70	800x400x70	850x440x80	900x500x80	1000x550x90	1150x600x110	1250x760x140	1350x820x140	1500x820x160	1500x840x180	1600x900x200		
模柄孔	Shank hole	mm	∅38.1	∅38.1	∅38.1	∅38.1	∅38.1	∅50	∅50	∅50	∅65	∅65	∅65	∅65	∅65		
主电动机	Main motor	kw.p	2.2x6	3.7x4	3.7x4	3.7x4	5.5x4	5.5x4	7.5x4	11x4	15x4	18.5x4	22x4	30x4	37x4		
滑块调整电机	Slide adjust device		手动 Manual operation						电动 Electrical driving								
使用空气压力	Air pressure	Mpa	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6		
冲床精度	Presses precision		GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级	GB(JIS)1class 一级		
冲床(长×宽×高)	Presses dimension	mm	1236x830x1920	1280x850x2200	1280x850x2200	1380x900x2400	1575x950x2500	1595x1000x2800	1800x1100x2800	1900x1300x3200	2420x1390x3465	2420x1490x3612	2735x1780x4070	2780x1850x4470	2870x1980x4830		
模垫能力	Die cushion capacity	ton	-	-	-	2.3	2.3	3.6	3.6	6.3	10	10	14	14	14		
模垫行程长	Stroke	mm	-	-	-	50	50	70	70	80	80	80	100	100	100		
模垫有效面积	Die cushion effective area	mm <sup>2</sup>	-	-	-	300x230	300x230	350x300	450x310	500x350	650x420	650x420	710x480	810x480	810x480		

上工作台 Slide



下工作台 Bolster



Model	A	B	C	D	E	F	G	H	I	T型沟
APA-15	240	120	90	470	-	150	∅38.1	80	250	I
APA-25A	240	120	90	470	-	150	∅38.1	80	250	I
APA-25	240	120	90	470	-	150	∅38.1	80	250	I
APA-35	280	140	120	520	-	160	∅38.1	100	285	I
APA-45	300	150	120	560	-	210	∅38.1	120	340	I
APA-60	320	160	150	700	220	220	∅50	160	400	II
APA-80	360	180	150	770	300	220	∅50	180	420	II
APA-110	400	200	160	910	300	220	∅50	220	470	II
APA-160	440	220	220	990	300	175	∅65	220	550	II
APA-200	480	240	280	990	420	200	∅65	300	550	II
APA-260	520	260	290	1130	420	200	∅65	300	630	II
APA-315	520	260	290	1130	420	200	∅65	300	700	II
APA-400	520	260	290	1130	420	200	∅65	300	700	II