

"筌筌" 注塑机

TSUENSAINT SERIES INJECTION MOLDING MACHINE



"筌筌" 压铸机

TSUENSAINT SERIES DIE-CASTING MACHINE



NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD.  
宁波筌筌科技发展有限公司

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大型冲压自动化方案解决专家

LARGE POWER PRESS  
AUTOMATION SOLUTIONS EXPERTS

NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO., 宁波筌筌科技发展有限公司

**TSUEN SAINT** 荃笙  
HIGH PRECISION POWER PRESS



宁波荃笙科技发展有限公司，专心致力于高精冲压机床设备的集研发、设计、生产、销售和服务，主营产品包含各类开式、闭式单/双点机械式、伺服冲床和高速冲床近20个系列，涵盖了从25吨到2500吨等30多种规格的机型。产品广泛应用于新能源、家电制造、仪器仪表、汽车配件、电机制造、电器制造、医疗器械、五金等金属制品加工领域。凭借公司二十多年的专业制造高精冲压机床技术经验及创新能力，公司科研技术团队能够为用户提供个性化工程设计和冲压集成解决的专业方案与服务。

NINGBO TSUENSAINT TECHNOLOGY DEVELOPMENT CO.,LTD. is dedicated to the R&D, design, manufacture, sales and service of high-precision presses. The products cover mechanical and servo presses with gap frame, C-frame, single/double points structure and high-speed presses, nearly 20 series, more than 30 types of models with capacity from 25 tons to 2,500 tons. Products are widely used in new energy, home appliance manufacturing, instrumentation, auto parts, motor manufacturing, electrical manufacturing, medical equipment, hardware and other metal processing fields. Relying on the professional experience of more than 20 years in metal stamping and innovation capabilities, our technical teams are able to provide customers with professional solutions and services for personalized engineering design and stamping integration solutions.

# APM SERIES

Closedtype Double Crank Precision Press Machine  
闭式双曲曲轴精密冲床



- 机身采用优质钢板焊制，经过消除应力工艺处理。提高了整机精度的稳定性和可靠性能。
- The machine body is welded of quality steel sheet and treated by tension elimination improve stability and reliability of precision of the machine.

# 110-600T

## Standard Unit 标准装置

- Standard operating system of AOMATE: Electronic crank angle led display, Electronic speed led display
  - Operation Mode Selection: Off/inching/safety one stroke/continuous
  - Hydraulic overload protector
  - Main motor (adjustable)
  - Overrun detector
  - Portable 2-hand push
  - Dual solenoid valve
  - Automatic slide adjust device
  - Digital die height indicator (unit 0.1mm)
  - Manual lubrication system
  - Total counter, 6 digits
  - Preset counter, 6 digits
  - Maintenance counter, 6 digits
  - Life counter, 6 digits
  - Electronic rotary cam switch (6 spare channel)
  - Air ejector 1/2" one channel
  - Air source receptacle 1/2" two channel
  - Missfeed detection circuit
  - Power Receptacle (available only for single phase, 110V power source wiring by user)
- 澳玛特标准操作系统: 电子式曲轴角度指示器、电子式运转速度指示器
  - 运转模式选择: 切/寸动/安全一行程/连续
  - 油压过负荷保护装置
  - 主电机(可调速)
  - 二度落保护装置
  - T型双手按钮操作台
  - 双联电磁阀
  - 电动滑块调整装置
  - 数字式模高指示器(单位0.1mm)
  - 手动黄油润滑装置
  - 累计计数器6位数
  - 预调计数器6位数
  - 保养计数器6位数
  - 寿命计数器6位数
  - 电子式旋转凸轮开关预备6连
  - 喷风装置1/2" 一回路
  - 空气源接头1/2" 二回路
  - 误送检知插座
  - 电源插座(仅适用单相110V电源)

## 选购项目

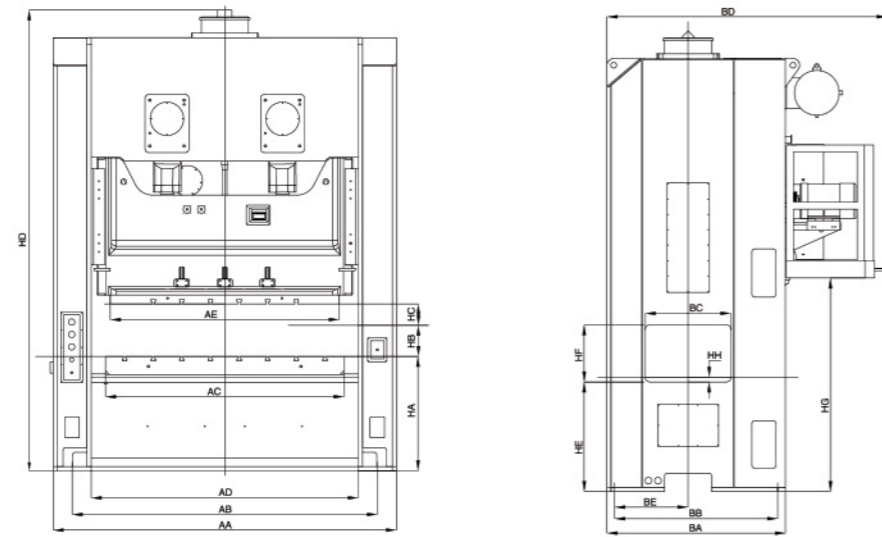
### Optional

- Die cushion
  - Vs motor
  - Safety light curtain
  - Slide knock-out device
  - Main motor reversing circuit
  - Foot switch
  - Safety die block with plug
  - Inverter
  - Flywheel brake
  - Quick mold replace mechanism
  - Quick die change system
  - Upper die clamber
  - Die lifter
  - Die arm
  - Anchor bolts & foundation plates
  - Automatic feed equipment
  - NC straightener feed c/w uncoiler (3 in 1)
  - NC roller feeder
  - Staighter c/w uncoiler (2 in 1)
  - Staightere
- 模垫装置
  - Vs变速马达
  - 光电安全装置
  - 滑块上部顶料装置
  - 主马达逆转装置
  - 脚踏开关
  - 安全挡块及安全插销
  - 误送检知装置
  - 防震机械脚
  - 快速换模装置
  - 上夹模器
  - 下夹模器
  - 举模器
  - 移模臂
  - 基础螺丝及基础板
  - 自动送料装置
  - 三合一NC矫直送料机
  - NC滚轮送料机
  - 二合一料架兼矫直机
  - 矫直机(整平机)

- In order to guarantee the machine running in stable and smooth, adopts the design of symmetrical two slid boards with balancer.
- The precision of mold adjusting up to 0.1mm, safety, reliable and convenient.
- Crank, gear, connect bar are oxidized hardening and milled, having super comprehensive mechanical performance and durable function.
- Reasonable structural design, is convenient for automatic production and line production.
- Used reliable high intensity clutch/brake and twin electromagnetic valve overloading protector can guarantee safe production all-around.
- Used high-grade alloy steel, double crank, wide work center with connection bar structure, the optimized design is suitable for large sizes and the mold bearing large impact loading as well as pressing of eccentric mold.
- Adopted closed electric loop circuit, have compatible with any automatic equipments.

规格	Specification	单位	APM-110		APM-160		APM-200		APM-250		APM-300		APM-400		APM-500		APM-600		
型式	Model		V	V	H	V	H	V	H	V	H	V	H	大台面V	小台面v	V	H	V	H
吨数	Capacity	Ton	110		160		200		250		300		400	400	500	500	600	600	
冲力发生位置	Rated tonnage point	mm	5	3	6	3	6	3	7	3	7	3	7	7	12	7	12	7	
行程	Stroke	mm	180	110	180	130	250	150	280	170	300	170	300	300	350	300	350	300	
每分钟行程数	Stroke per minute	s.p.m	35-65	50-100	30-55	40-85	20-50	35-70	20-40	30-60	20-35	30-50	20-30	20-40	15-25	25-35	15-25	25-30	
最大闭合工作高度	Die height	mm	400	435	450	400	500	450	550	450	550	450	550	550	600	600	600	600	
滑块调整量	Slide adjustment	mm	100		100		120		120		120		120	120	150	150	200	200	
上工作台尺寸	Slide area	mm	1400x500		1600x650		1850x750		2400x900		2400x900		2900x1000	2400x1000	3300x1100	2800x1100	3400x1300	2900x1300	
下工作台尺寸	Bolster area	mm	1600x650		1800x760		2200x940		2500x1000		2500x1000		3200x1100	2700x1100	3500x1200	3000x1200	3600x1400	3100x1400	
侧向开口	Side opening	mm	550x400		700x450		900x600		900x600		900x600		900x600	900x600	1000x800	1000x800	1000x800	1000x800	
主电动机	Main motor	Kw×P	11×4		15×4		18.5×4		22×4		30×4		37×4		55×4		75×4		
滑块调整机构	Slide adjust device	Kw×P	0.75×4		0.75×4		1.5×4		1.5×4		1.5×4		1.5×4		3×4		4kw×4		
使用空气压力	Air pressure	kg/cm <sup>2</sup>	6		6		6		6		6		6		6		6		
冲床精度	Presses precision		GB/JIS 1class 一级																
冲床(长×宽×高)	Presses dimension	mm	2410x1900x3250		2300x2500x3682		2520x3000x3915		2790x3600x4593		2890x3600x4729		3129x3800x5257		4600x3900x5600		4700x4150x5700		

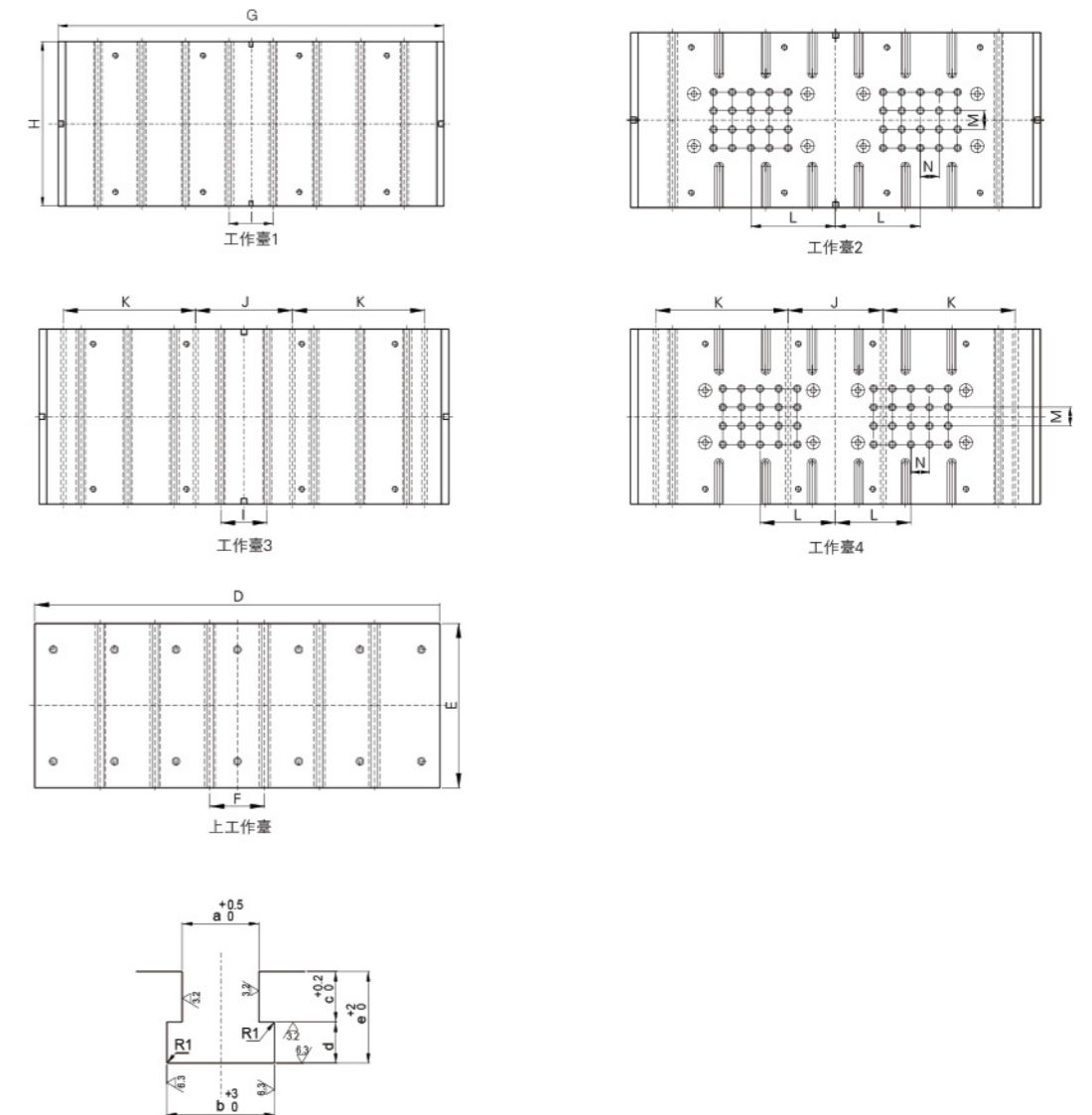
► Dimensions 外形尺寸



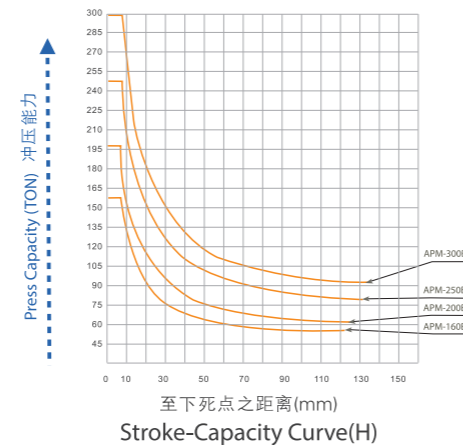
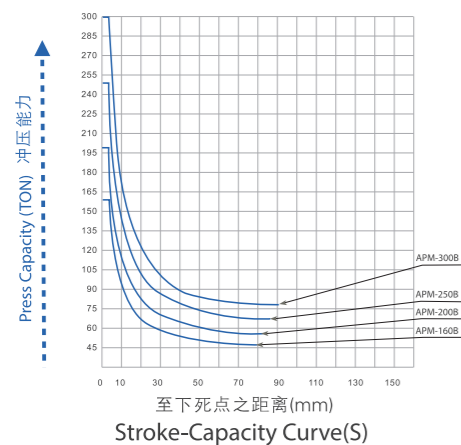
规格 APM-110 APM-160 APM-200 APM-250 APM-300 APM-400 APM-500 APM-600

Model	APM-110		APM-160		APM-200		APM-250		APM-300		大台面V		小台面V		APM-500		APM-600	
AA	2410		2590		3000		3600		3600		4100	3700	4600	4000	4700	4100		
AB	2060		2240		2650		3230		3200		3700	3300	4150	3550	4250	3650		
AC	1600		1800		2200		2500		2500		3200	2700	3500	3000	3600	3100		
AD	1700		1880		2290		2800		2800		3300	2900	3700	3100	3800	3200		
AE	1400		1600		1850		2400		2400		2900	2400	3300	2800	3400	2900		
BA	1216		1450		1600		1770		1870		2100	2100	2380	2325	2600	2700		
BB	1036		1290		1440		1590		1710		1940	1940	1940	1825	2060	2160		
BC	550		700		900		900		900		900	900	1000	1000	1000	1000		
BD	1950		2410		2650		2890		2950		3300	3130	3900	3750	4150	4200		
BE	410		490		620		670		770		770	770	780	750	780	780		
HA	830		1000		1000		1080		1200		1200	1200	1375	1300	1400	1400		
HB	400	435	450	400	500	450	550	450	550	450	550	550	600	600	600	600		
HC	180	110	180	130	250	150	280	170	300	170	300	300	350	300	350	300		
HD	3150	3115	3674	3674	3990	3890	4593	4450	4830	4460	4810	4800	5600	5450	5700	5500		
HE	790		950		940		1050		1150		1150	1140	1325	1250	1350	1350		
HF	400		450		600		600		600		600	600	850	850	850	850		
HG	1435	1455	1863	1898	1990	1800	2055	1870	2240	2075	2415	2300	2600	2400	2700	2600		

► Slide Bolster 上下工作台



► Graph 能力曲线图



	MODEL	APM-110	APM-160	APM-200	APM-250	APM-300	APM-400A	APM-400	APM-500S	APM-500H	APM-600S	APM-600H
上工作台	D	1400	1600	1850	2400	2400	2900	2900	3300	2800	3400	2900
	E	500	650	750	900	900	1000	1000	1100	1100	1300	1300
	T型槽类型	A	A	B	B	B	B	B	B	B	B	B
	T型槽类型	4	6	6	8	6	8	10	10	10	10	10
	F	250	250	250	300	300	300	300	300	300	300	300
下工作台	G	1600	1800	2200	2500	2500	2700	3200	3500	3000	3600	3100
	H	650	760	940	1000	1000	1100	1100	1200	1200	1400	1400
	T型槽类型	A	A	B	B	B	B	B	B	B	B	B
	T型槽类型	6	6	8	8	8	8	10	10	10	10	10
	I	250	250	250	300	300	300	300	300	300	300	300
	J	500	530	520	540	540	700	1200	1200	1200	1200	1200
	K	500	450	710	680	680	600	600	650	650	650	650
	L	450	415	455	510	510	510	510	/	/	/	/
	N	75	75	100	100	100	100	100	/	/	/	/
	N	75	75	100	100	100	100	100	/	/	/	/