



COSMOS PRESS

大同油压

应用实例

汽车零件
Auto Parts

汽车转向器
Steering gear

座椅枕头支架
Seat pillow support

冷挤压齿轮
Cold-extruded gears

冷挤压轴
Cold-extruded shaft

金属外壳
Metal Cases

手机外壳
Mobile cases

手表壳
Watch cases

眼镜框
Glasses frames

家电
Home Appliances

电热水器
Water heater

冰箱内胆
Refrigerator liner

燃气罩外壳
Gas cooker housing

餐具
Tableware

刀叉
Knife and fork

金属碗碟
Metal dishes



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COMPANY PROFILE

公司简介



大同油压服务工业界多年,为香港上市公司“大同机械企业有限公司”在中国大陆投资建立的专业油压机制造商大同油压主要生产用于金属及非金属材料冷或热压成形的油压机,机床结构包括四柱式、框架式、弓形和按用户要求特别设计的专用油压机。

近年,我司更研发出最先进的伺服液压系统驱动的CMSe系列伺服油压机,CMSe伺服油压机具有重复定位精度高、噪音低、节能环保、操作维护简单等卓越特点。CMSe伺服油压机更荣获“荣格金属加工行业技术创新奖”,获得业界极大认可。大同油压产品齐全,压力范围涵盖1-5000吨等多种规格,并有上动式、下动式、上顶料式和下顶料式及复合式等多种动作形式。

多年来,大同油压已向大陆及港澳台乃至全球制造业提供优质高效的油压机为己任,在充分借鉴自身拥有的多年香港油压行业设计和制造经验的基础上,广泛采用国际先进的液压、电气、密封等材料和工艺技术,使产品既具有使用数十年且不断完善的结构,又有现代制造业要求高精度、高可靠性和易操作维护的优点。大同油压已通过ISO9001质量认证,严格的质量管理,快捷的交货,及时且周到的售后服务和合理的价格是大同油压对每位用户的真诚承诺。

Cosmos Press is a professional and experienced hydraulic press manufacturer invested and established by Cosmos Machinery Enterprises Limited in China Mainland. We have served enthusiastically for press industry for several decades.

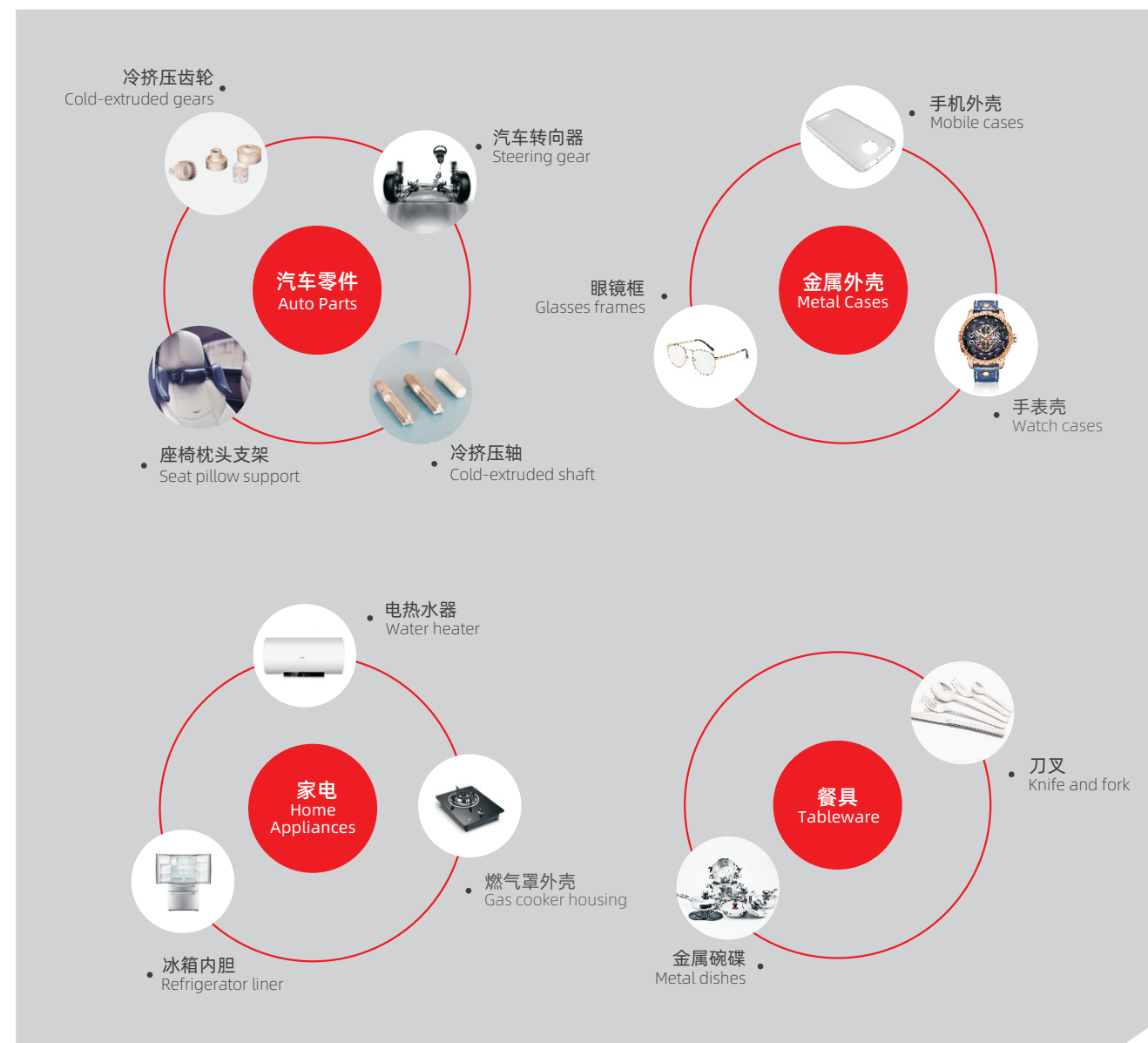
Cosmos Press is now mainly engaged in manufacturing hydraulic press designed for cold and hot forming of metallic or non-metallic materials. Based on structure, our presses include four-column type, frame type, C-frame type and customized type.

It is worth mentioning, our latest invention called CMSe servo hydraulic press series, which adopt advanced servo hydraulic control system. It features with high repeatability, low noise, energy saving and ease operation etc To satisfy worldwide high-end press customers' strong requirement, Cosmos Press launches CMSe series firstly in China. In 2010, Cosmos gains honorably "Ringer Metalworking Industry Technology Innovation Award" by latest CMSe series. Hydraulic presses pressure range from 1 to 5000 tons with dozens of specifications, pressing motions including Up-stroke type, down-stroke type, upward ejecting type, downward ejecting type and composite type.

Cosmos Press has been committed to providing high quality and high efficient hydraulic presses for manufacturing industries of mainland, Hong Kong, Macao and Taiwan, even all over the world for many years. Taking full advantage of its long-term industry experience in press design and manufacture, Cosmos Press integrates perfectly with international advanced hydraulic, electrical, sealing materials and technologies, hence its products not only feature good structure continuously improved through Hong Kong customers' feedback and improvement by ourselves for several decades, but also feature high precision and reliability as well as easy operation and maintenance. Cosmos Press has passed ISO 9001 quality certification successfully. Cosmos Press will commit to serving each user sincerely with rapid delivery, timely and perfect after-sales services as well as reasonable prices through strict quality control as before.

APPLICATION EXAMPLE

大同油压应用实例



CMLJ系列冷挤压四柱伺服油压机

CMLJ Series Cold Extrusion Hydraulic Press



主要特点 FEATURES

- **操作简便:** 良好的人机介面，易于设定各项参数及保存功能；
- **控制系统:** 伺服驱动控制系统；
- **压制调节:** 高速压制设定，满足不同产品的压制工艺要求；
- **精度监控:** 采用光栅尺及压力传感器进行位置及压力监控，提高压制精度；
- **机床结构:** 通过有限分析，保证压机的强度及刚性，结构更合理；
- **节能效果:** 大功率马达以满足高速高压的工艺要求，选用伺服马达驱动能达到最佳的用电效果；
- **自动生产:** 可按客户需求设计不同形式的自动化生产辅助设备；
- **高重复精度:** 重复精度达±0.01mm，有效控制因机床精度问题而产生的废品。
- **极佳节能效果:** 采用先进的伺服驱动油泵系统，与传统的油压机相比，可节能达20-50%。
- **高生产效率:** 生产效率与用常规马达的数控油压机同比提升约35%。
- **伺服马达驱动系统:** 采用伺服马达驱动系统，可以满足不同的工艺对速度压力的变化要求，并且运动时更平稳，更静音。
- **低冷却水能源**
(可选配普通电机驱动控制系统)
- **Easy operation:** User-friendly human-machine interface, easy to set various parameters and save functions;
- **Control system:** Servo-driven control system;
- **Pressing adjustment:** High-speed pressing setting to meet the pressing process requirements of different products;
- **Precision monitoring:** Using linear scales and pressure sensors for position and pressure monitoring, improving pressing accuracy;
- **Machine structure:** Ensuring machine strength and rigidity through finite element analysis for a more rational structure;
- **Energy-saving effect:** High-power motors meet the requirements of high-speed and high-pressure processes, and using servo motor drive achieves optimal power efficiency;
- **Automatic production:** Customizable design for different forms of automation equipment according to customer requirements;
- **High repeatability precision:** Repeatability precision of ±0.01mm, effectively controlling scrap rate caused by machine tool accuracy issues;
- **Excellent energy-saving effect:** Utilizing an advanced servo-driven hydraulic pump system, it can save energy compared to traditional hydraulic presses, up to 20-50%;
- **High production efficiency:** Production efficiency improved by approximately 35% compared to conventional motor-driven CNC hydraulic presses;
- **Servo motor drive system:** Adopts a servo motor drive system to meet varying speed and pressure requirements for different processes, ensuring smoother and quieter movement;
- **Low cooling water consumption**
(Optional conventional motor drive control system).

适用范围 APPLICATION

主要适用于金属材料的冷锻、温锻及挤压成型，以及压印、浅拉伸、落料等用途。如汽车、摩托车、自行车、手机外壳、LED散热器、表壳、五金工具等。

Mainly suitable for cold forging, warm forging, extrusion forming of metal materials, as well as pressing, shallow drawing, and blanking. Applications include automobile, motorcycle, bicycle, mobile phone casings, LED heat sinks, watch casings, and hardware tools.



技术参数表 Technical parameter table

项目ITEM		UNIT	CMLJ-300	CMLJ-500	CMLJ-650	CMLJ-1000
公称力 Nominal capacity		Ton	300	500	650	1000
系统最大压力 Max. system pressure		MPa	25	25	25	25
活动工作台最大行程 Max. stroke of moving bolster		mm	450	500	500	500
移动横梁至工作台最大距离 Maximum distance of moving crossbeam to the worktable		mm	1000	1000	1100	1100
工作台距地面高度 Height of movable working table surface		mm	1000	1135	1225	1465
Speed of movable working table 活动工作台行程速度	快下 Approaching	mm/s	250	230	230	160
	工进 Pressing	mm/s	10-20	8-16	8-16	8-16
	回程 Returning	mm/s	300	250	250	170
Effective area 活动工作台有效尺寸	左右(柱内) L-R (Between columns)	mm	700	800	900	1000
	前后(边缘) F-B (Edge to edge)	mm	700	800	1000	1100
Overall dimensions (Approx.) 机器外形尺寸(约)	左右 Length	mm	2242	2440	2590	2650
	前后 Width	mm	1883	2294	2294	2350
	高 Height	mm	3700	3890	4269	4600
电机功率 Motor power		kW	32	55	55	78.6
机器重量(约) Machine weight (Approx.)		Kgs	6100	9500	13200	19000

项目ITEM	UNIT	CMLJ-300A	CMLJ-500A	CMLJ-650A	CMLJ-1000A
顶出公称力 Ejecting nominal capacity	Ton	30	50	50	50
顶出缸行程 Ejecting stroke	mm	200	200	200	200

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CMSe系列四柱下缸式伺服油压机

CMSe Series Four Column Type Single Action Up-stroke Servo Driven Hydraulic Press



主要特点 FEATURES

- 良好的人机界面，具有工艺参数储存功能。
 - 采用光栅尺进行位置监控，压力传感器进行压力监控，提高产品压制精度；
 - 采用伺服驱动控制，可满足不同工艺对速度及压力的变化要求，并且运动更平稳；
 - 主要液压组件采用名牌产品，保证液压系统性能的稳定性；
 - 机身经有限元分析，结构更合理、刚性好、压制精度高。
 - 高重复精度
重复精度达±0.01mm，有效控制因机床精度问题而产生的废品；
 - 极佳节能效果
采用先进的伺服驱动油泵系统，与传统的油压机相比，可节能达20-50%；
 - 伺服马达驱动系统
采用伺服马达驱动系统，可以满足不同的工艺对速度压力的变化要求，并且运动时更平稳，更静音；
 - 低冷却水能源
(可选配普通电机驱动控制系统)
- User-friendly human-machine interface with the function of storing process parameters;
 - Position monitoring using grating rulers, pressure monitoring using pressure sensors to improve product pressing accuracy;
 - Servo-driven control, meeting the varying speed and pressure requirements of different processes, resulting in smoother movements;
 - Main hydraulic components use reputable brands to ensure the stability of the hydraulic system;
 - Machine structure designed through finite element analysis for better rationality, rigidity, and higher pressing accuracy;
 - High repeatability precision: Repeatability precision of ±0.01mm, effectively controlling waste caused by machine tool accuracy issues;
 - Excellent energy-saving effect: Advanced servo-driven hydraulic pump system achieves energy savings of 20-50% compared to traditional hydraulic presses;
 - Servo motor drive system: Adopts a servo motor drive system to meet varying speed and pressure requirements for different processes, ensuring smoother and quieter movement;
 - Low cooling water consumption
(Optional conventional motor drive control system).

适用范围 APPLICATION

CMSe系列全伺服驱动四柱油压机是针对眼镜、表壳、表带、徽章、纪念章等金属压制成型工艺、粉末冶金等非金属压制成型工艺，集中同类产品的先进技术，经资深工程技术人员的优化创新，推出的伺服油压机系列。该系列在机械、液压、电器和操作等方面均采用最新的技术和理念，性价比高，为业内提供了一个全新的选择。

The CMSe series fully servo-driven four-column hydraulic presses are designed for metal pressing forming processes such as glasses, watch casings, watch straps, medals, commemorative badges, and non-metal pressing forming processes like powder metallurgy. This series integrates advanced technology from similar products and has been optimized and innovated by experienced engineering technicians, offering a new choice with high cost-effectiveness.



技术参数表 Technical parameter table

项目ITEM	UNIT	CMSe-200	CMSe-300	CMSe-500	CMSe-1000	CMSe-2000	CMSe-3000
公称力 Nominal capacity	Ton	200	300	500	1000	2000	3000
系统最大压力 Max. system pressure	MPa	25	25	25	25	25	29
活动工作台最大行程 Max. stroke of movable working table	mm	150	150	150	200	200	150
工作台距地面最低高度 Height of movable working table surface	mm	890	960	1150	1357	1390	1700
开口高度 Open height	mm	400	400	450	600	600	860
活动工作台 Speed of movable working table	行程速度 Approaching	mm/s	180	180	100	100	75
	工进 Pressing	mm/s	2-11	2-8	1-3	1-1.5	1-1.5
	回程 Returning	mm/s	240	240	150	120	95
有效尺寸 Effective area	左右(柱内) L-R (Between columns)	mm	455	550	900	1170	1200
	前后(边缘) F-B (Edge to edge)	mm	550	650	950	1400	1600
机器外形尺寸(约) Overall dimensions (Approx.)	左右 Left to right	mm	1446	1360	1970	3200	4010
	前后 Front to back	mm	1310	1635	1720	1755	2750
	高 Height	mm	1735	1735	2080	2720	3260
伺服电机功率 Motor power	kW	16	16	16	29	39	48
机器重量(约) Machine weight (Approx.)	Kgs	2200	3120	5600	15000	35000	75000

项目ITEM	UNIT	CMSe-200A	CMSe-300A	CMSe-500A	CMSe-1000A	CMSe-2000A	CMSe-3000A
顶出公称力 Ejecting nominal capacity	Ton	5	5	10	10	20	50
顶出缸行程 Ejecting stroke	mm	30	30	30	30	40	50

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CMSe-S系列四柱上缸式伺服油压机

CMSe-S Series Four Column Type Single Action Down-stroke Servo Driven Hydraulic Press



主要特点 FEATURES

- 良好的人机界面，具有工艺参数储存功能；
 - 采用光栅尺进行位置监控，压力传感器进行压力监控，提高产品压制精度；
 - 采用伺服驱动控制，可满足不同工艺对速度及压力的变化要求，并且运动更平稳；
 - 主要液压组件采用名牌产品，保证液压系统性能的稳定性；
 - 机身经有限元分析，结构更合理、刚性好、压制精度高；
 - 高重复精度**
重复精度达±0.01mm，有效控制因机床精度问题而产生的废品；
 - 极佳节能效果**
采用先进的伺服驱动油泵系统，与传统的油压机相比，可节能达20-50%；
 - 伺服马达驱动系统**
采用伺服马达驱动系统，可以满足不同的工艺对速度压力的变化要求，并且运动时更平稳，更静音；
 - 低冷却水能源**
(可选配普通电机驱动控制系统)
- User-friendly human-machine interface with the function of storing process parameters;
 - Position monitoring using grating rulers, pressure monitoring using pressure sensors to improve product pressing accuracy;
 - Servo-driven control, meeting the varying speed and pressure requirements of different processes, resulting in smoother movements;
 - Main hydraulic components use reputable brands to ensure the stability of the hydraulic system;
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 - Servo motor drive system:** Adopts a servo motor drive system to meet varying speed and pressure requirements for different processes, ensuring smoother and quieter movement;
 - Low cooling water consumption**
(Optional conventional motor drive control system).

适用范围 APPLICATION

CMSe系列全伺服驱动四柱油压机是针对眼镜、表壳、表带、徽章、纪念章等金属压制成型工艺、粉末冶金等非金属压制成型工艺，集中同类产品的先进技术，经资深工程技术人员的优化创新，推出的伺服油压机系列。该系列在机械、液压、电器和操作等方面均采用最新的技术和理念，性价比高，为业内提供了一个全新的选择。

The CMSe series fully servo-driven four-column hydraulic presses are designed for metal pressing forming processes such as glasses, watch casings, watch straps, medals, commemorative badges, and non-metal pressing forming processes like powder metallurgy. This series integrates advanced technology from similar products and has been optimized and innovated by experienced engineering technicians, offering a new choice with high cost-effectiveness.



技术参数表 Technical parameter table

项目ITEM		UNIT	CMSe-100S	CMSe-300S	CMSe-500S	CMSe-1000S
公称力 Nominal capacity		Ton	100	300	500	1000
系统最大压力 Max. system pressure		MPa	25	25	25	26
活动工作台最大行程 Max. stroke of movable working table		mm	200	200	200	250
工作台距地面最低高度 Height of movable working table surface		mm	860	900	900	880
开口高度 Open height		mm	450	450	450	600
活动工作台 Speed of movable working table	行程速度 Approaching	mm/s	160	180	170	130
	工进 Pressing	mm/s	3-15	2-8	1-5	1-3
	回程 Returning	mm/s	200	170	160	130
有效尺寸 Effective area of working table	左右(柱内) L-R (Between columns)	mm	500	550	650	900
	前后(边缘) F-B (Edge to edge)	mm	600	650	750	950
机器外形尺寸(约) Overall dimensions (Approx.)	左右 Length	mm	1602	1364	1620	1970
	前后 Width	mm	2070	2150	1726	1815
	高 Height	mm	2525	2650	2870	3513
伺服电机功率 Motor power		kW	16	16	16	29
机器重量(约) Machine weight (Approx.)		Kgs	3000	3390	8000	18000

项目ITEM	UNIT	CMSe-100SA	CMSe-300SA	CMSe-500SA	CMSe-1000SA
顶出公称力 Ejecting nominal capacity	Ton	5	5	10	10
顶出缸行程 Ejecting stroke	mm	20	30	30	30

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CMHF系列 四柱伺服拉伸油压机

CMHF Series Four Column Type Double Action Hydraulic Press



主要特点 FEATURES

- 采用先进的二通式插装阀，油路系统故障少，可靠性高且换向冲击小；
 - 主缸采用合金铸钢并经精密研磨，在高压状态下使用可靠性高；
 - 四柱采用高强度合金制作，表面镀硬铬，耐磨性好；
 - 关键油压电器件采用进口名牌产品，可靠性高；
 - 活动工作台设有上模脱料油缸；
 - 可增加数控系统，在拉伸动作过程中，主缸及压边力随着片材面积在额定范围内变化(选配)；
- (可选配伺服电机驱动控制系统)
-
- Advanced two way cartridge valve system ensures high reliability and much less hydraulic shock caused by oil flow direction change;
 - Main hydraulic cylinder is made of alloy steel and its inner surface is finely grinded for prolonging working life under high pressure;
 - Four columns are made of alloy steel with high tensile resistance, finely grinded and electro-plated with hard chrome;
 - Main hydraulic and electrical components are adopted imported famous brands;
 - A hydraulic ejector is installed inside of movable worktable for knocking out work piece after pressing process;
 - CNC control as an option, during drawing process, refer to the change of metal sheet area, the ram and blanking cylinder force will be changed within setting range;
- (Induction motor driving system as option)

适用范围 APPLICATION

- 餐具、厨具、电机外壳、家电及灯饰零件等拉伸成形；
- 金属或非金属零件的整形、压印、拉伸和切边等；
- Deep drawing and forming of tableware, kitchenware, metal cover of electric motor, household appliances and lighting, etc.;
- Trimming, stamping, deep drawing and edge-cutting of metallic and non-metallic materials;



技术参数表 Technical parameter table

项目ITEM		UNIT	CMHF-50	CMHF-120	CMHF-220	CMHF-220L	CMHF-275	CMHF-350	CMHF-350L	CMHF-500	CMHF-500L	CMHF-600	CMHF-800
主油缸 Main cylinder	公称力 Nominal capacity	Ton	35	85	160	160	200	260	260	350	350	420	600
	最大行程 Max. stroke	mm	350	450	560	560	560	560	560	600	600	700	500
压边油缸 Blank holding cylinder	公称力 Nominal capacity	Ton	15	35	60	60	75	90	90	150	150	180	200
	最大行程 Max. stroke	mm	175	200	260	260	260	260	260	300	300	350	250
卸料缸 Ejector	公称力 Nominal capacity	Ton	2	3	5	5	5	5	5	10	10	10	10
	最大行程 Max. stroke	mm	150	180	200	200	200	220	220	250	250	300	150
开口高度 Open height		mm	600	730	900	1000	900	900	900	1000	1200	1500	1050
固定工作台距离地面高度 Height of fixed working table surface		mm	990	1055	1080	1100	1100	1200	1200	1550	1600	1800	1700
活动工作台 Speed of movable working table	下行 Approaching	mm/s	195	220	210	210	210	200	200	210	210	175	160
	拉伸 Drawing	mm/s	25	20	20	20	19	17	17	18	18	13	10
	回程 Returning	mm/s	180	220	200	200	200	165	165	190	190	165	135
底缸上升速度 Ascending speed of blank holding cylinder		mm/s	120	50	120	120	115	120	120	85	85	75	50
活动工作台 Working table size available	左右(柱内) L-R (Between columns)	mm	500	500	710	900	800	900	1100	1050	1250	1400	1700
	前后(边缘) F-B (Edge to edge)	mm	550	600	870	1100	900	1000	1250	1200	1500	1600	1400
机器外形尺寸 (Approx.)	左右 Length	mm	1750	2000	2100	2290	2200	2400	2600	3300	3500	3760	3650
	前后 Width	mm	1160	1670	1870	2100	1920	2120	2370	2200	2400	2200	3200
	高 Height	mm	2550	2915	3350	3480	3600	3800	3840	4650	4800	5585	4690
伺服电机功率 Motor power		kW	10	16	29	29	32	42	42	55	55	55	55
机器重量(约) Machine weight (Approx.)		Kgs	2280	3500	6000	6800	7500	9500	12500	16000	22000	30000	33000

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CMHe系列框架式导轨伺服冷挤压油压机

CMHe Series Frame type guide way servo driven hydraulic press



主要特点 FEATURES

- 机床结构通过有限元分析整体焊接及八面导轨设计
- 变形量低：机架采用整机框架结构，滑块采用精密导轨导向运行，耐震及抗侧压力强，整机稳定，精密耐用，适用于落料、成型、挤压等多种工艺用途。
- 维修方便：整机按不同功能模式、设计成模块结构，拆装简便，一般故障可直接通过触摸屏观看，维修简易。
操作简便：良好的人机介面，易于设定各项参数及保存功能；
- 控制系统：伺服驱动控制系统；
- 压制调节：高速压制设定，满足不同产品的压制工艺要求；
- 精度监控：采用光栅尺及压力传感器进行位置及压力监控，提高压制精度；
- 机床结构：通过有限分析，保证压机的强度及刚性，结构更合理；
- 节能效果：大功率马达以满足高速高压的工艺要求，选用伺服马达驱动能达到最佳的用电效果；
- 自动生产：可按客户需求设计不同形式的自动化生产辅助设备；
- 高重复精度：重复精度达±0.01mm，有效控制因机床精度问题而产生的废品。
- 极佳节能效果：采用先进的伺服驱动油泵系统，与传统的油压机相比，可节能达20-50%。
- 伺服马达驱动系统：采用伺服马达驱动系统，可以满足不同的工艺对速度压力的变化要求，并且运动时更平稳，更静音。
- 低冷却水能源
(可选配普通电机驱动控制系统)

- Machine tool structure designed through finite element analysis with overall welding and eight-side guide rail design;
- **Low deformation:** The machine frame adopts a complete frame structure, and the slider runs on precision guide rails for strong seismic resistance and side pressure resistance. The machine is stable, precise, and durable, suitable for blanking, forming, extrusion, and other processes;
- **Convenient maintenance:** The machine is designed as a modular structure according to different functional modes, making disassembly and assembly easy. General malfunctions can be directly observed and repaired through the touch screen, making maintenance simple;
- **Easy operation:** User-friendly human-machine interface, easy to set various parameters and save functions;
- **Control system:** Servo-driven control system;
- **Pressing adjustment:** High-speed pressing setting to meet the pressing process requirements of different products;
- **Precision monitoring:** Using grating rulers and pressure sensors for position and pressure monitoring, improving pressing accuracy;
- **Machine tool structure:** Ensuring press strength and rigidity through finite element analysis for a more rational structure;
- **Energy-saving effect:** High-power motors meet the requirements of high-speed and high-pressure processes, and using servo motor drive achieves optimal power efficiency;
- **Automatic production:** Customizable design for different forms of automated production auxiliary equipment according to customer needs;
- **High repeatability precision:** Repeatability precision of ±0.01mm, effectively controlling waste caused by machine tool accuracy issues;
- **Excellent energy-saving effect:** Utilizing an advanced servo-driven hydraulic pump system, it can save energy compared to traditional hydraulic presses, up to 20-50%;
- **Servo motor drive system:** Adopts a servo motor drive system to meet varying speed and pressure requirements for different processes, ensuring smoother and quieter movement;
- **Low cooling water consumption**
(Optional conventional motor drive control system).

适用范围 APPLICATION

- 主要适用于金属材料的冷锻、温锻及挤压成型，以及压印、浅拉伸、落料等用途。如汽车、摩托车、自行车、手机外壳、LED散热器、表壳、五金工具等；
- 特别适用于精密成型零件。
- Mainly suitable for cold forging, warm forging, extrusion forming of metal materials, as well as pressing, shallow drawing, and blanking. Applications include automobile, motorcycle, bicycle, mobile phone casings, LED heat sinks, watch casings, and hardware tools;
- Especially suitable for precision molding parts.



技术参数表 Technical parameter table

项目ITEM		UNIT	CMHe-300LJ	CMHe-500LJ	CMHe-650LJ	CMHe-1000LJ	CMHe-1200LJ	CMHe-1500LJ
公称力 Nominal capacity		Ton	300	500	650	1000	1200	1500
系统最大压力 Max. system pressure		MPa	25	25	25	25	25	25
最大行程 Max. stroke		mm	450	500	500	500	500	500
开口高度 Open height		mm	1000	1000	1100	1100	1200	1200
行程速度 Speed of movable working table	快下 Approaching	mm/s	250	230	230	160	160	150
	工进 Pressing	mm/s	10-20	8-16	8-16	8-16	6-15	3-13
	回程 Returning	mm/s	300	250	250	170	160	150
有效尺寸 Movable working table size	左右(柱内) L-R (Between columns)	mm	700	800	1000	1200	1300	1400
	前后(边缘) F-B (Edge to edge)	mm	700	800	1000	1200	1300	1400
机器外形尺寸(约) Overall dimensions (Approx.)	左右 Length	mm	1680	2650	2940	3660	3800	4150
	前后 Width	mm	1780	2100	2100	2450	2500	2680
	高 Height	mm	3500	4050	4100	4560	4720	4820
电机功率 Motor power		kW	32	55	55	78.6	96	110

项目ITEM	UNIT	CMHe-300LJ	CMHe-500LJ	CMHe-650LJ	CMHe-1000LJ	CMHe-1200LJ	CMHe-1500LJ
顶出公称力 Ejecting nominal capacity	ton	30	50	50	50	60	80
顶出缸行程 Ejecting stroke	mm	200	200	200	200	200	200

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CMHe-LS系列框架式导轨伺服拉伸油压机

CMHe-LS Series Frame Type Double Action Servo Driven Hydraulic Press



主要特点 FEATURES

- 机床结构通过有限元分析整体焊接及八面导轨设计；
- 变形量低：刚性好，抗侧向力强，适用于压制精度高，且不对称产品，如：汽车配件，水槽等拉深产品；
- 维修方便：整机按不同功能模式、设计成模块结构，拆装简便，一般故障可直接通过触摸屏观看，维修简易；
- 操作简便：良好的人机介面，易于设定各项参数及保存功能；
- 控制系统：伺服驱动控制系统；
- 压制调节：高速压制设定，满足不同产品的压制工艺要求；
- 精度监控：采用光栅尺及压力传感器进行位置及压力监控，提高压制精度；
- 机床结构：通过有限分析，保证压机的强度及刚性，结构更合理；
- 节能效果：大功率马达以满足高速高压的工艺要求，选用伺服马达驱动能达到最佳的用电效果；
- 自动生产：可按客户需求设计不同形式的自动化生产辅助设备；
- 拉伸效果：满足拉伸工艺对主缸及压边缸压力的变化要求，可实现1:1拉伸成形，节省模具成本；
- 高重复精度：重复精度达±0.01mm，有效控制因机床精度问题而产生的废品；
- 极佳节能效果：采用先进的伺服驱动油泵系统，与传统的油压机相比，可节能达20-50%；
- 伺服马达驱动系统：采用伺服马达驱动系统，可以满足不同的工艺对速度压力的变化要求，并且运动时更平稳，更静音；
- 低冷却水能源
(可选配普通电机驱动控制系统)

- Machine tool structure designed through finite element analysis with overall welding and eight-side guide rail design;
- **Low deformation:** Good rigidity and strong resistance to lateral forces, suitable for high-precision and asymmetric products such as automobile accessories and sinks;
- **Convenient maintenance:** The machine is designed as a modular structure according to different functional modes, making disassembly and assembly easy. General malfunctions can be directly observed and repaired through the touch screen, making maintenance simple;
- **Easy operation:** User-friendly human-machine interface, easy to set various parameters and save functions;
- **Control system:** Servo-driven control system;
- **Pressing adjustment:** High-speed pressing setting to meet the pressing process requirements of different products;
- **Precision monitoring:** Using grating rulers and pressure sensors for position and pressure monitoring, improving pressing accuracy;
- **Machine tool structure:** Ensuring press strength and rigidity through finite element analysis for a more rational structure;
- **Energy-saving effect:** High-power motors meet the requirements of high-speed and high-pressure processes, and using servo motor drive achieves optimal power efficiency;
- **Automatic production:** Customizable design for different forms of automated production auxiliary equipment according to customer needs;
- **Stretching effect:** Meets the changing pressure requirements of the main cylinder and edge cylinder for stretching processes, enabling 1:1 stretching forming and saving on mold costs;
- **High repeatability precision:** Repeatability precision of ±0.01mm, effectively controlling waste caused by machine tool accuracy issues;
- **Excellent energy-saving effect:** Utilizing an advanced servo-driven hydraulic pump system, it can save energy compared to traditional hydraulic presses, up to 20-50%;
- **Servo motor drive system:** Adopts a servo motor drive system to meet varying speed and pressure requirements for different processes, ensuring smoother and quieter movement;
- **Low cooling water consumption**
(Optional conventional motor drive control system).

适用范围 APPLICATION

主要适用于金属材料的冷挤压成型，压印，浅拉伸，落料等用途。如水槽、汽车配件等。

Mainly suitable for cold extrusion forming, pressing, shallow drawing, and blanking of metal materials, such as water meters, automobile accessories, etc.



技术参数表 Technical parameter table

项目ITEM		UNIT	CMHe-100LS	CMHe-300LS	CMHe-500LS	CMHe-800LS	CMHe-1000LS	CMHe-1200LS	CMHe-1500LS	CMHe-2000LS
主油缸 Main cylinder	公称力 Nominal capacity	Ton	100	300	500	800	1000	1200	1500	2000
	最大行程 Max. stroke	mm	500	800	1200	1200	1500	1500	1500	1500
开口高度 Open height		mm	800	1200	1600	2000	2000	2000	2000	2000
行程速度 Speed of movable working table	下行 Approaching	mm/s	350	350	400	400	400	400	400	400
	拉伸 Drawing	mm/s	20-25	23-30	20-25	20-25	20-25	20-25	20-25	20-25
	回程 Returning	mm/s	350	350	400	400	400	400	400	400
压边力 Edge pressing force		Ton	30	100	200	300	400	500	500	600
有效尺寸 Working table size available	左右 L-R (Between columns)	mm	1500	2000	3500	4000	4500	4500	5000	5000
	前后 F-B (Edge to edge)	mm	1200	1500	2000	2500	2500	2500	2500	2500
液缸推板尺寸 Cushion push plate size	左右 Left to right	mm	1200	1500	2920	3220	3820	3820	4420	4420
	前后 Front to back	mm	900	1200	1420	2020	2020	2020	2020	2020
液压垫行程 Cushion cylinder stroke	最大行程 Max. stroke	mm	250	300	400	500	500	500	500	500
电机功率 Motor power		kW	22	75	110	150	150	150	150	180
液压垫电机功率 Motor power		kW	3.75	7.5	15	30	30	30	37	37

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CMHe-E1 系列框式伺服油压机

CMHe-E1 Series Frame Type Up-stroke Hydraulic Press



主要特点 FEATURES

- 采用整体焊接框架式床身，整机刚性好，抗压强度高；
- 压力、行程、保压、多次压制等可按压制工艺要求调整；
- 具有上顶料，下顶料及上下复合顶料等不同机型，适用于压制成形工艺的需要；
- 合模后起压快，达到设定压力仅需几秒钟；
- 采用下置式油箱，方便更换液压油及清洗油箱。
（可选配伺服电机驱动控制系统）
- Welded strong frame body made of high quality integral steel plate ensures high rigidity;
- Pressing pressure, stroke of movable worktable and hold pressure time can be adjusted according different pressing technology;
- Upward ejector, downward ejector and composite ejectors can be selected in different models in order to different pressing technology;
- Fast build-up time of pressing pressure enhances high productivity;
- Oil tank fixed at bottom of machine, ease for clean the tank and change the hydraulic oil;

适用范围 APPLICATION

- 金属及非金属零件的压印、挤压成形、浅拉伸、整形、覆模及切边等；
- 表壳、表带、眼镜框架及零件、相框、餐具、标牌、锁具、汽车零件和五金零件。
- Stamping, forming, shallow drawing, die spotting, molding and blanking of metallic and non-metallic material;
- Forming of watch case, watch band, spectacle parts, photo frame, tableware, metal ornaments, lock parts, auto part and hardware etc. .



技术参数表 Technical parameter table

项目ITEM		UNIT	CMHe-200E1	CMHe-300E1	CMHe-500E1	CMHe-1000E1	CMHe-1500E1	CMHe-2000E1
公称力 Nominal capacity		Ton	200	300	500	1000	1500	2000
系统最大压力 Max. system pressure		MPa	22	24	25	25	27	25
最大行程 Max. stroke		mm	150	150	150	150	150	150
开口高度 Open height		mm	380	380	450	500	550	800
活动工作台距地面最低高度 Height of moving bolster surface		mm	1050	1080	1180	1365	1600	1895
活动工作台上行速度 Upward speed of moving bolster		mm/s	120	120	110	100	80	80
活动工作台工进速度 Worktable feed speed		mm/s	2~10	1~7	1~5	1~4	1~2.5	1~2
活动工作台回程速度 Returning speed of movable working table		mm/s	130	130	110	100	90	90
活动工作台 moving bolster	有效尺寸 左右 Left to right	mm/s	520	580	710	900	1100	1400
	前后 Front to back	mm/s	500	540	640	880	1050	1380
机器外形尺寸(约) Overall dimensions (Approx.)	左右 Length	mm	1350	1410	1650	1850	2300	2700
	前后 Width	mm	1600	1600	1650	2000	2450	2650
	高 Height	mm	1840	1895	2080	2500	2950	3745
伺服电机功率 Motor power		KW	16	16	16	29	39	39
机器重量(约) Machine weight (Approx.)		Kgs	2400	3300	5500	13000	20000	40000

项目ITEM	UNIT	CMHe-200E1A	CMHe-300E1A	CMHe-500E1A	CMHe-1000E1A	CMHe-1500E1A	CMHe-2000E1A
顶出公称力 Ejecting nominal capacity	Ton	2	2	5	10	10	10
顶出缸行程 Ejecting stroke	mm	15	15	15	20	20	20

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CMH-S 框式上缸油压机

CMH-S Series Down-stroke Frame Type Hydraulic Press

主要特点 FEATURES

- 采用整体焊接框架式床身，整机刚性好，抗压强度高；
- 压力、行程及保压等可按压制工艺要求调整；
- 具有上顶料，下顶料及上下复合顶料等不同机型，适用于压制成形工艺的需要；
- 合模后起压快，达到设定压力仅需几秒钟；
- 采用下置式油箱，方便更换液压油及清洗油箱；
(可选配伺服驱动控制系统)

- Utilizes an integral welding frame bed with good rigidity and high compressive strength;
- Pressure, stroke, and holding pressure can be adjusted according to pressing process requirements;
- Various machine types available, such as top and bottom pressing, as well as top and bottom combined pressing, suitable for different pressing forming processes;
- Fast pressure buildup after mold closure, reaching set pressure in just a few seconds;
- Equipped with a bottom-mounted oil tank for easy hydraulic oil replacement and tank cleaning.
(Optional servo-driven control system)



适用范围 APPLICATION

- 金属及非金属零件的压印、挤压成形、浅拉伸、整形、覆模及切边等；
- 表壳、表带、眼镜框架及零件、相框、餐具、标牌、锁具、汽车零件和五金零件；
- Metal and non-metal parts are suitable for embossing, extrusion forming, shallow stretching, shaping, covering, and trimming processes;
- Applications include watch cases, watch straps, eyeglass frames and parts, photo frames, tableware, nameplates, locks, automotive parts, and hardware components.

技术参数表 Technical parameter table

项目ITEM		UNIT	CMH-200S	CMH-300S	CMH-500S
公称力 Nominal capacity		Ton	200	300	500
系统最大压力 Max. system pressure		MPa	22	24	25
最大行程 Max. stroke		mm	150	150	150
开口高度 Open height		mm	350	400	450
活动工作台距地面最低高度 Height of movable working table surface		mm	940	940	840
活动工作台下行速度 Upward speed of movable working table		mm/s	120	120	110
活动工作台工进速度 Active worktable feed rate		mm/s	2-10	1-7	1-5
活动工作台回程速度 Returning speed of movable working table		mm/s	130	130	110
活动工作台尺寸 Movable working table size	左右 Left to right	mm/s	520	600	710
	前后 Front to back	mm/s	500	580	640
有效面积 Effective area of the mold cushion plate	左右 Left to right	mm	500	560	600
	前后 Front to back	mm	500	560	600
机器外形尺寸(约) Overall dimensions (Approx.)	左右 Length	mm	1310	1445	1651
	前后 Width	mm	1550	1550	1655
	高 Height	mm	2180	2340	2305
伺服电机功率 Motor power		kW	16	16	16
机器重量(约) Machine weight (Approx.)		Kgs	3900	4800	6700

项目ITEM	UNIT	CMH-200SA	CMH-300SA	CMH-500SA
顶出公称力 Ejecting nominal capacity	Ton	2	2	5
顶出缸行程 Ejecting stroke	mm	15	15	15

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CMHC系列开式油压机

CMHC Series C-frame Type Hydraulic Press

主要特点 FEATURES

- 采用内置式快速缸，空行程速度快，生产效率高；
 - 使用电子尺调节主缸位置，亦可在设计行程内任意调整快进和压制行程的长短；
 - 压力可按工艺需要无级调整；
 - 整机焊接的坚固开式结构，可使机身保持刚性的同时拥有最方便的操作空间。
- (可选配伺服电机驱动控制系统)

- Fast approaching and returning speeds by inner cylinder allow high efficient production;
 - Simple and convenient adjusting device makes upper working table pressing at any position;
 - Pressing capacity can be adjusted according to different pressing technology;
 - Open type welded strong frame structure made of high quality integral steel plate, ensures high rigidity and saves working space.
- (Standard with relay control, PLC control is option)



适用范围 APPLICATION

- 金属及非金属零件的压印、成形、浅拉伸、整形及压力装配等；
 - 眼镜、锁具及五金零件压制等、电子接插件、电器零件、电机转子、定子压装等。
- Stamping, forming, shallow drawing and pressing assembly of metallic and non-metallic material;
 - Forming of spectacles, lock and metal hardware, pressing assembly of electronic connectors, electric components, rotor and stator of motor etc.;



技术参数表 Technical parameter table

项目ITEM		UNIT	CMHC-05	CMHC-10	CMHC-15	CMHC-25	CMHC-50	CMHC-75	CMHC-100	CMHC-120	CMHC-160	CMHC-200
公称力 Nominal capacity		ton	5	10	15	25	50	75	100	120	160	200
系统最大压力 Max. system pressure		MPa	13	12	15	16	16	16	18	22.5	24	25
最大行程 Max. stroke		mm	180	200	200	200	200	300	300	300	300	300
开口高度 Open height		mm	350	400	400	450	450	500	550	550	620	750
喉深 Depth of throat		mm	150	175	175	200	225	275	325	325	330	355
快下速度 Approaching speed		mm/s	300	300	300	300	250	210	200	200	190	160
压制速度 Pressing speed		mm/s	50	35	25	22	20	15	15	15	12	12
回程速度 Returning speed		mm/s	260	350	300	180	200	180	200	200	120	160
模柄孔尺寸 Size of tooling holder hole		mm	Ø30x55	Ø30x55	Ø40x60	Ø40x60	Ø50x70	Ø60x75	Ø60x75	—	—	—
活动工作台尺寸 Moving bolster size L x W		mm	—	—	—	—	400x280	480x350	520x400	520x400	580x400	860x600
固定工作台尺寸 Fixed bolster size L x W		mm	440x300	450x350	450x350	460x400	550x450	650x550	800x650	800x650	800x650	1000x700
固定工作台距地面高度 Height of fixed bolster surface to ground		mm	850	850	850	850	850	850	850	850	860	875
机器外形尺寸(约) Overall dimensions (Approx.)	左右 Length	mm	760	800	800	820	900	1030	1157	1157	1210	1400
	前后 Width	mm	880	940	1000	1100	1230	1440	1600	1600	1770	2015
	高 Height	mm	1770	1880	1900	2020	2100	2330	2390	2390	2620	3070
电机功率 Motor power		KW	2.2	3	4	5.5	7.5	11	15	15	18.5	30
机器重量(约) Machine weight (Approx.)		Kgs	950	1020	1120	1280	2250	3250	4400	5000	7200	14000

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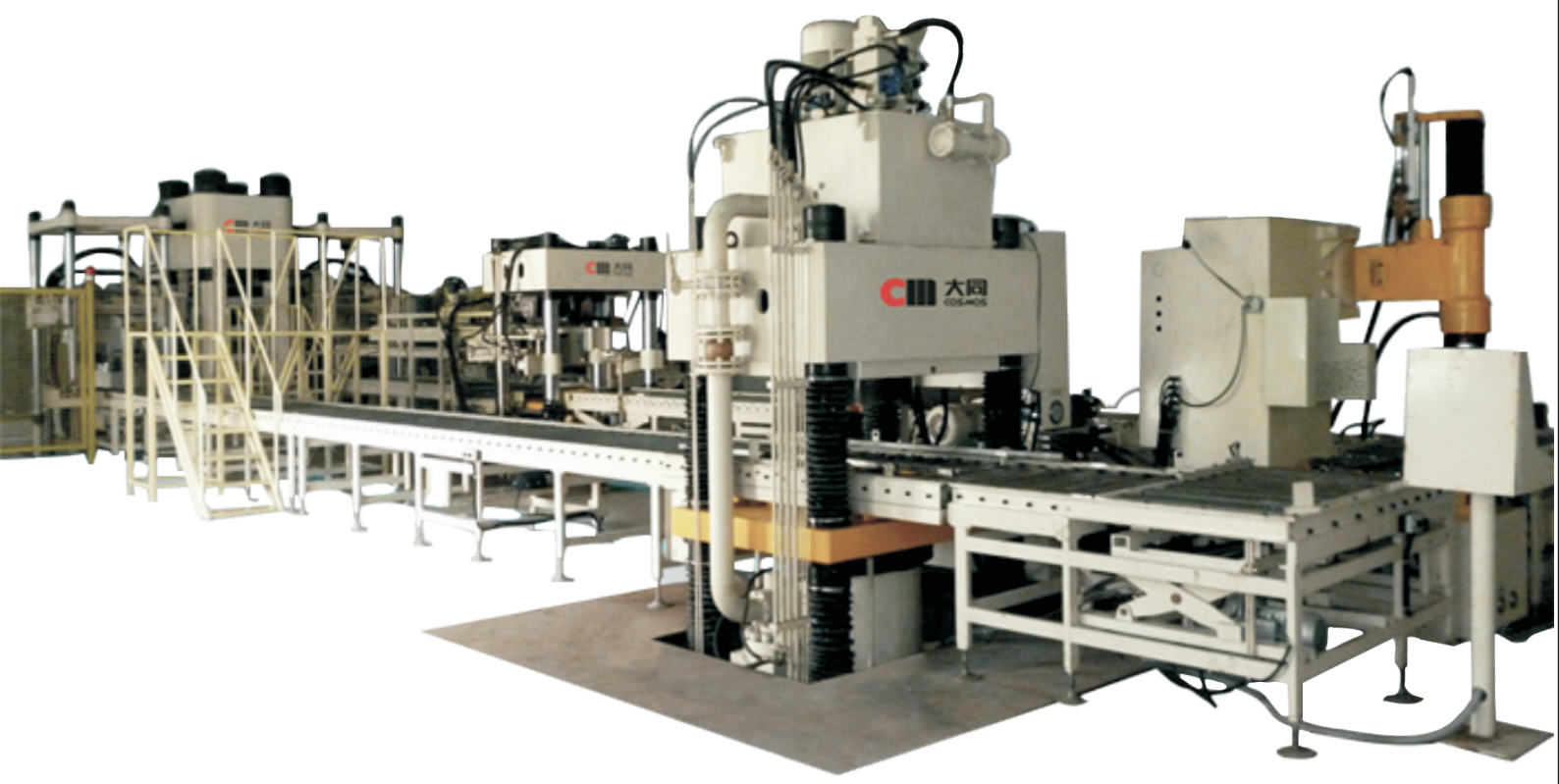
树脂砂轮自动化生产线

Automatic Production Line of Resin Grinding Wheel

树脂砂轮自动化生产线是由填料油压机、预压油压机、热压油压机（可搭配2台）、脱模油压机、输送装置等组成。

主要特点

- 操作简便：良好的人机介面，易于设定各项参数及保存功能；
- 控制系统：伺服驱动控制系统；
- 机床结构：通过有限分析，保证压机的强度及刚性，结构更合理；
- 操作方式：各机型具有独立的动力系统和电气系统，并采用按钮集中控制，可实现点动、手动、半自动、三种操作方式；
- 精度监控：高精度传感器（压力、位移）反馈实施控制，使主缸压力精度控制在 $\pm 3\%$ 以内，压力更精确；
- 加热控制：加热系统可选择加热管模式或油加热模式，加热板温度可精确控制在 $\pm 3.5^\circ$ 内；
- 静音：采用伺服马达驱动器，可以满足不同的工艺对速度压力的变化要求，并且运动时更平稳，更静音。
(可选配普通电机驱动控制系统)



The resin-bonded grinding wheel automatic production line consists of a filling press, pre-pressing press, hot-pressing press (can be equipped with 2 units), demolding press, and conveyor device.

FEATURES

- Easy operation: User-friendly human-machine interface, easy to set various parameters and save functions;
- **Control system:** Servo-driven control system;
- **Machine tool structure:** Ensuring press strength and rigidity through finite element analysis for a more rational structure;
- **Operation modes:** Each machine type has an independent power system and electrical system, with centralized button control, allowing for point motion, manual operation, semi-automatic, and three operation modes;
- **Precision monitoring:** High-precision sensors (pressure, displacement) provide feedback for control, ensuring the pressure precision of the main cylinder is within $\pm 3\%$, achieving more accurate pressure control;
- **Heating control:** The heating system can choose between heating tube mode or oil heating mode, and the heating plate temperature can be precisely controlled within $\pm 3.5^\circ$;
- **Quiet operation:** Adopting a servo motor drive system, it meets the varying speed and pressure requirements for different processes, resulting in smoother and quieter movement.
(Optional conventional motor drive control system)



适用范围 APPLICATION

本系列压机适用于磨料制品的压制成型工艺和其它压制成形工艺，如树脂砂轮等。

This series of presses are suitable for the pressing forming process of abrasive products and other pressing forming processes, such as ceramic grinding wheels.

陶瓷砂轮成型油压机

Abrasive Wheel Servo Driven Hydraulic Press

陶瓷砂轮油压机系列是由主机、移模装置、脱模装置、压头切换装置、浮动缸装置、电磁吸盘装置、翻板装置、集料装置等组成。

主要特点 FEATURES

- **操作简便:** 良好的人机介面，易于设定各项参数及保存功能；
- **控制系统:** 伺服驱动控制系统；
- **机床结构:** 通过有限分析，保证压机的强度及刚性，结构更合理；
- **操作方式:** 独立的动力机构和电气系统，并采用按钮集中控制，可实现点动、手动、半自动、三种操作方式；
- **精度监控:** 高精度传感器（压力、位移）反馈实施控制，使主缸位移精度控制在 $\pm 0.03\text{mm}$ 以内，位置更精确；
- **多样性:** 压机可选配单工位操作或双工位操作，还可搭配不同功能的辅机；
- **静音:** 采用伺服马达驱动系统，可以满足不同的工艺对速度压力的变化要求，并且运动时更平稳，更静音；
- **效率:** 在生产过程中各辅机单元可实现独立操作，大幅提高生产效率。
- **Easy operation:** User-friendly human-machine interface, easy to set various parameters and save functions;
- **Control system:** Servo-driven control system;
- **Machine tool structure:** Ensuring press strength and rigidity through finite element analysis for a more rational structure;
- **Operation modes:** Each machine type has an independent power system and electrical system, with centralized button control, allowing for point motion, manual operation, semi-automatic, and three operation modes;
- **Precision monitoring:** High-precision sensors (pressure, displacement) provide feedback for control, ensuring the displacement precision of the main cylinder is within $\pm 0.03\text{mm}$, achieving more precise positioning;
- **Versatility:** The press can be equipped with single-station or double-station operation, and can be combined with different auxiliary machines;
- **Quiet operation:** Adopting a servo motor drive system, it meets the varying speed and pressure requirements for different processes, resulting in smoother and quieter movement;
- **Efficiency:** Each auxiliary machine unit can operate independently during production, significantly increasing production efficiency.



The ceramic grinding wheel hydraulic press series consists of a main machine, mold transfer device, demolding device, head switching device, floating cylinder device, electromagnetic chuck device, flipping device, aggregate device, etc.

适用范围 APPLICATION

本系列压机适用于磨料制品的压制成型工艺和其它压制成形工艺，如陶瓷砂轮等。

This series of presses are suitable for the pressing forming process of abrasive products and other pressing forming processes, such as ceramic grinding wheels.



行业专机

Custom Made Hydraulic Press

上缸四柱伺服油压机（带移动工作台）
Four column down-stroke servo driven hydraulic press with transfer table



冰箱内胆专用打孔及裁边油压机
Refrigerator liner trimming and punching hydraulic press



管材冷挤压成型伺服油压机生产线
Servo driven hydraulic press production line for cold extrusion tube forming



高精密粉末成型伺服油压机
High precision powder forming servo driven hydraulic press



CMSD 等比压伺服油压机系列
CMSD Series Equal Pressure Servo Driven Hydraulic Press



CMSG 鼓片式单层/多层伺服油压机系列
CMSG Series Drum Type Single Layer / Multi Layer Servo Driven Hydraulic Press

