

Press



Allbest Creative Development Ltd. (ALLBEST)

Technology Portfolio

Equal-hydrostatic press (cold isostatic press)	Φ 500mm-Φ 1,300mm
Hydraulic press for fiber-cement sheet and other building materials	5,000t-20,000t
Hydraulic press for metal plate	5,000t-40,000t
Hydraulic press for thick steel plate	5,000t-50,000t

Main Features of Ultra-High Pressure Hydraulic Press

- The ultra-high pressure hydraulic press is made based on own patents and absorbed international advanced technology, which features with long stroking, high speed, small dimension, large load, no leak and so on.
- The main body is made as per the international advanced twist process and realizes the advantages of large load and little-volume frame of main body. Supplying oil with ultra-high pressure reduces the size of the oil crotch and the working platform. This is more suitable for the enterprise with little space to use hydraulic press with high tonnage capacity.
- The main oil cylinder is adopted the imported seal material, the owned patents of sealing protect of super-high pressure and super-high pressure liquid charge, so the press can work under the super-high pressure (100MPa) and at high speed for long period, but no leak.
- The hydraulic system of insert-cone valve component is designed and produced by the technology from WEIX, USA, which overcomes the labile-leak shortcoming of traditional sliding valve. It can be warranted to not leak for long period working and make user relax.
- PLC and all key electrical components are selected from reliable suppliers to ensure the electrical system works in reliability and accuracy for long-period. The user can use PLC to make the program according to specific process of various parts and the equipment can accomplish all complex work pieces. And also, the user can select the operation mode, i.e. automatic, semi-automatic and manual mode, which generates the condition of automatic continual production.
- Using twin oil pump to supply the system, which saves the power and increase the working speed.



10000 t high pressure hydraulic press exported to USA



Frame twinning equipment



Manufacturing press



Horizontal twinning machine



Electric control assembling

Hydraulic press for metal plate (5,000-50,000t)

It is applied and used for shaping high density corrugation shallow elongation and non-metal plate materials, such as heat exchange plate, hydrogen-making electrode plate, silicon carbide plate, etc.



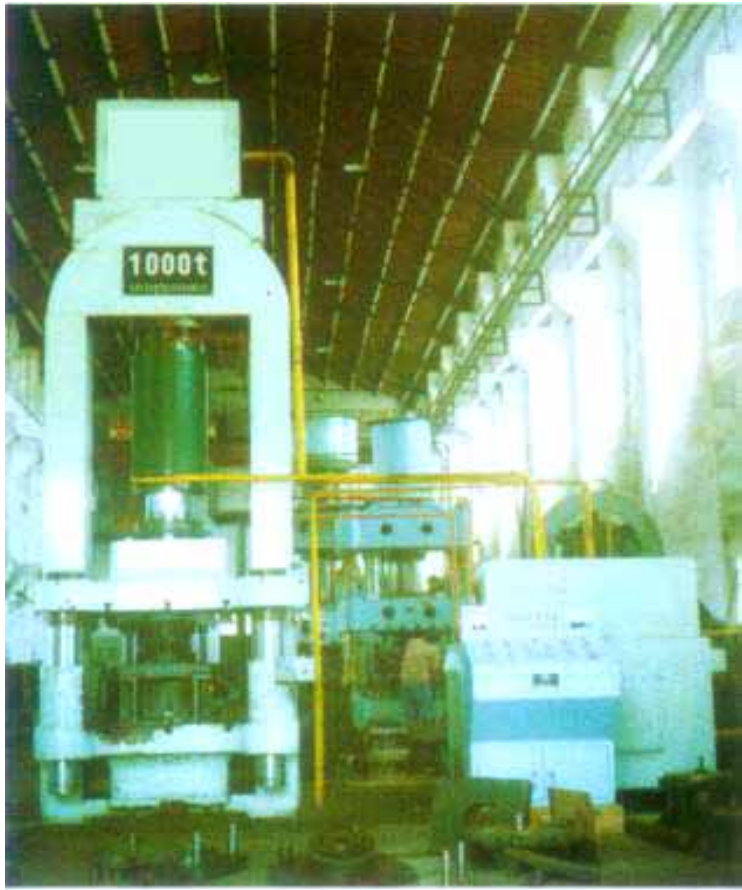
Spec.	Capacity (MN)	Working Stroke (mm)	Working Speed (mm/s)	Speed of backlash (mm/s)	Working Table (m)	Max. Daylight (mm)	Motor (kW)
Model							
50	50	300	1.0	50-70	1.0*2.0	700	30
100	100	300	0.25	50-70	1.2*2.4	700	55
200	200	350	0.25	50-70	1.6*3.2	700	110
300	300	350	0.2	50-70	1.7*3.4	700	140
400	400	400	0.2	50-70	1.8*3.8	800	220

Remark: The specification can be adjusted according to the requirement from the client

Hydraulic press for thick steel plate (5,000-50,000t)

The combination of several frameworks ensures the press for any working condition.

It can be used in stamping, cutting and bending thick steel plates and extruding ferrous metal, such as automobile's clutch and frame, ship deck and offshore platform column, etc.



Min. Unsealed Width of a Single Framework (mm)

Capacity (MN)	10	20	30	40	50
Pressure (MPa)					
100	560	700	820	920	1000
150	520	640	720	800	880
200	480	580	660	720	780

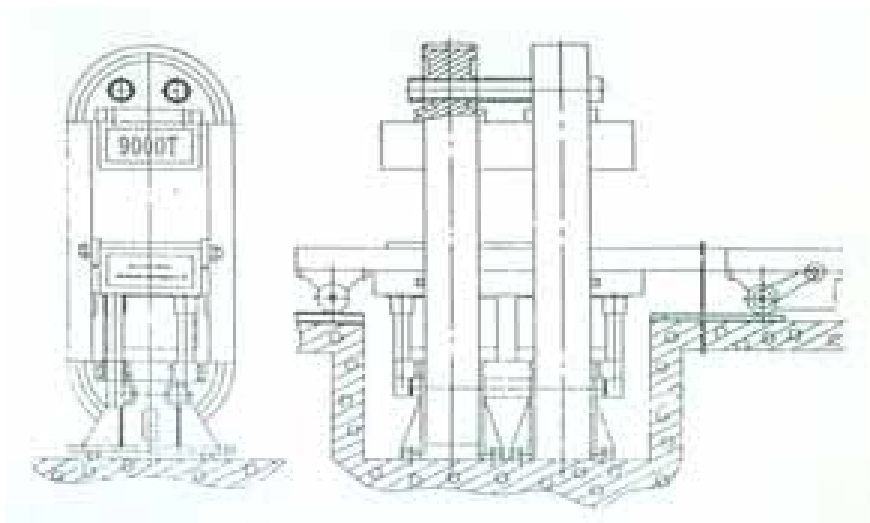
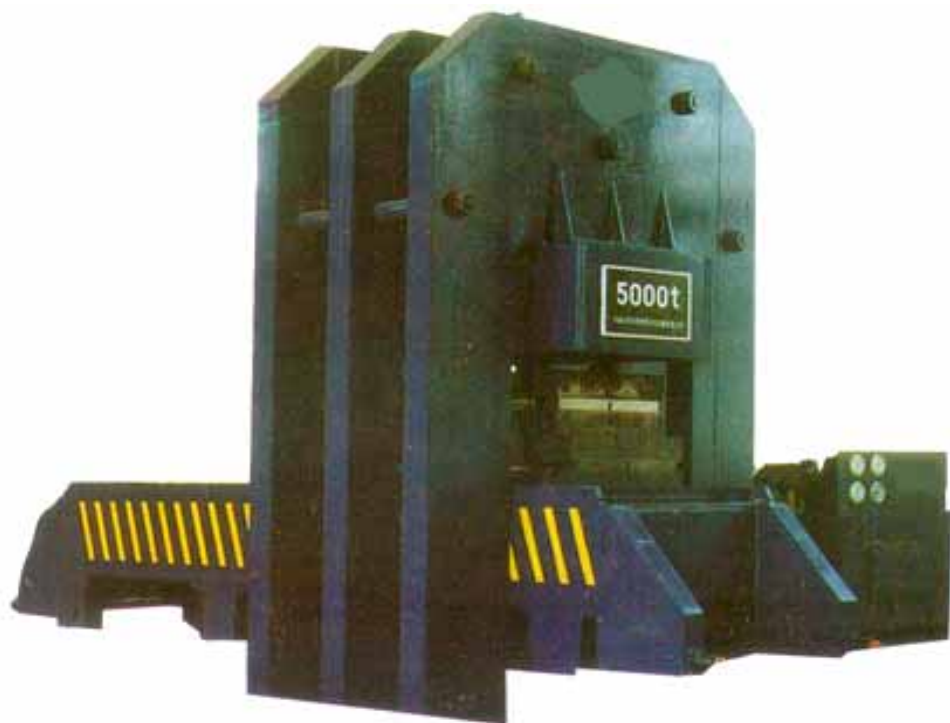
Hydraulic press for fiber-cement sheet and other building materials (5,000-20,000t)

With overall improvement against the same kind of international products, the series of products have superior performance.

This press can be used in pressing of fiber cement sheet, calcium silicon sheet, fiber gypsum sheet, and other building materials. This press, after proper design, can also be used for hot press shaping of particle and sawdust boards on wooden or bamboo basis.



Spec. Model	Capacity (MN)	Working Stroke (mm)	Working Speed (mm/s)	Max. Daylight (mm)	Working Table (m)	Weight Loaded (t)	Motor (kW)
5000	50	400	0.05-0.2	1100	1.3*2.6	30	30
9000	90	400	0.05-0.2	1100	1.35*3.2	35	45
12000	120	400(800)	0.05-0.2	1100 (2000)	1.4*3.2	40(70)	90



Equal-hydrostatic press (cold isostatic press) Φ 500mm- Φ 1,300mm

Numbers of patented technology applied to improve the property and performance of the same kind of international products in the world.

The press makes powder products have the extreme high density and isotropy. It can be used in producing and forming refractory, powder metallurgy, electric magnetism, electric ceramics, graphite materials, fresh food retaining, and other fields.

The products made by cold isostatic press are easy for machine work, and also, reduce the shrinkage after next process of sintering, which can be made in various and complex shapes.



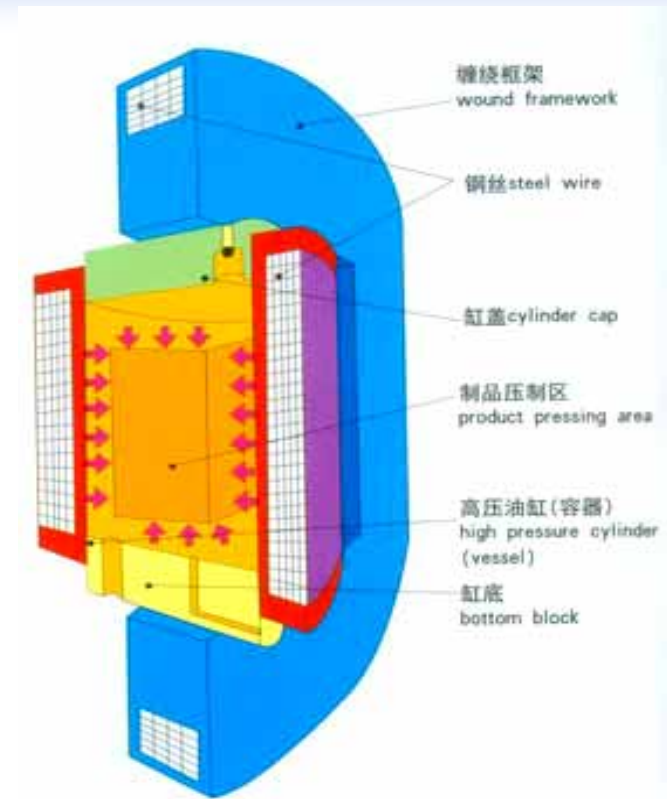
Model	22	45	63	76	86	100	125	135
Parameter								
Inner Diameter of drum (mm)	220	450	630	760	860	1000	1250	1350
Height of drum (mm) Less than	1500	2000	3000	3000	3500	4000	4500	4500
Pressure (MPa) Less than	400	400	300	300	200	250	200	200

Remark: The specification can be adjusted according to the requirement from the client

Advanced design and workmanship

The technology of steel wire winding helps eliminate stress concentration on pressure vessel and frame, therefore increasing the anti-fatigue ability, resulting in long and safe use of the equipment.

The interior pressure of the vessel is produced by adjusting the stoppers of the frame.



Cross section of framework and cylinder



Fast pressure increase valve

Fast pressure increase

It does not have any pressure acceleration system, greatly reducing the time required for pressure acceleration. Meanwhile, the diameter of the oil tube for ultra high pressure has been reduced further.



Appearance of the pressure intensifier

Efficient and steady pressure intensifier

Special structure and sealing technology adopted in the production of its pressure intensifier has ensured the press of its steady and safe operation, free from inner and outer emission, greatly reducing problems and the time required for pressure acceleration.



Sealing of the cylinder top

Reliable sealing for ultra high pressure

The press has adopted different sealing materials and methods for different pressures, as represented by the sealing assembly with compensated sealing ability that can sustain very high pressure



Stepless speed change valve assembly for pressure release

The stepless speed change valve assembly for pressure release of the press makes it possible to satisfy various requirements in production.

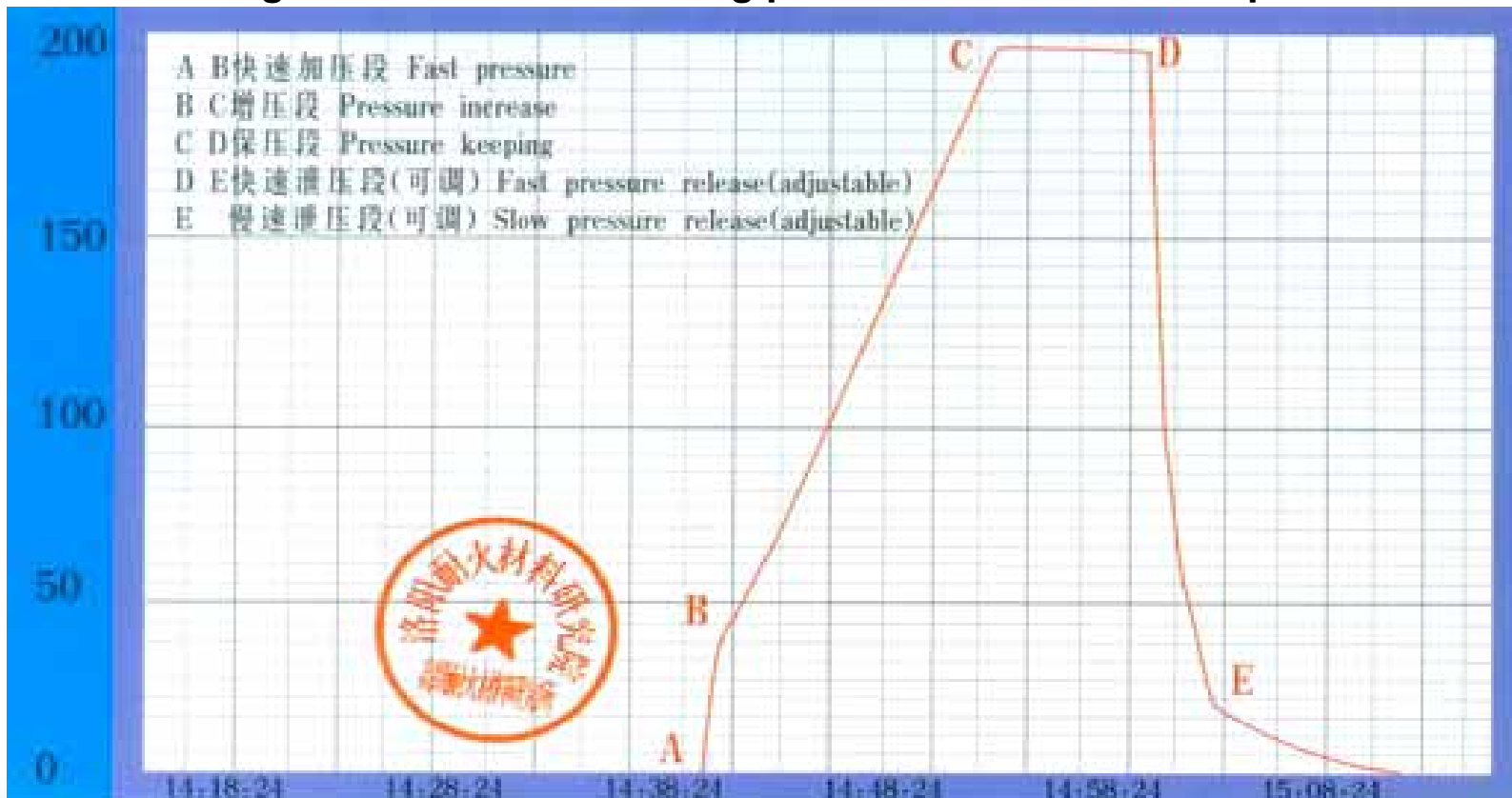
Stepless pressure adjustment valve assembly



Double-media cold isostatic press

This type of press makes it possible to accomplish separation of the working medium and the pressure acceleration of the working medium and the pressure acceleration medium for the processing and of shorter prevention of the pollution, reduce the diameter of the cylinder and production cost.

Φ 1250/2800-200MPa diagram of curves indicating pressure increase of the press



Application of cold isostatic press in different fields



Samples of products made by cold isostatic press



Electric ceramics



Cemented carbide products



Refractory



Powder metallurgical products



Graphite products

Service

- **Advanced and reliable technology & engineering**
- **Procurement, manufacture, and delivery of the goods**
- **Project management**
- **Construction, installation, and commissioning**
- **Technical service**
- **Training program**
- **Service after completion of the project**
- **Financing assistance and export credit**
- **Other services and functions upon request**

CREATE THE FUTURE



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