

Press machine

- Accessories-XRF

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I . Manual Power Press machine

FFMP-15T
FFMP-24T
FFMP-40T
FFMP-60T
FFMP-100GT
FFMP-150T

II . Automatic Press machine

ZHY-401
ZHY-601

III . Accessories

Plastic loop die
Boric acid die
Steel loop die
Aluminum cup die

Manual Power Press machine



FFMP-15T



FFMP-24T

Type	FFMP-15T	FFMP-24T	FFMP-40T	FFMP-60T	FFMP-100T	FFMP-150T
Maximum pressing force	0~15T	0~24T	0~40T	0~60T	0~100T	0~150T
Piston diameter	87mm	87mm	125mm	150mm	200mm	200mm
Piston rise	0~20mm	0~20mm	0~50mm	0~50mm	0~50mm	0~50mm
Working room	140*140 *150mm	94*94*180mm	180*100 *230mm	220*130 *280mm	220*200 *280mm	260*250 *280mm
Pressure stability ≤	1Mpa/5min	1Mpa/5min	2Mpa/5min	2Mpa/5min	2Mpa/2min	2Mpa/2min
Dimension	280×210 × 500mm	280×210 × 500mm	350×260 × 620mm	420×280 × 720mm	480×260 × 800mm	506×300 ×840mm
Weight	36kg	40kg	100kg	140kg	200kg	270kg

Automatic Press machine

1.FFAP-401

2.FFAP-601



Press machine

ZHY series press machine is the ancillary equipment for X-ray generators. With integrated tool pressuring, available in the boric acid, steel ring, aluminum cup, plastic ring, and low-pressure polythene pressuring type. Unique **the automatic slowly-compression and slowly-decompression program** is propitious to samples up to grade. May substitute the overseas similar product. A key operation causes to press to become ease.

Controls the power source completely uses low pressure 24V, the work is safer.

The automatic slowly-compression: When space schedule, press head fast upward; when press head close sample, the press head starts slowly upward until the pressure reaches the upper pre-set limit. Like this namely may squeeze out in the air in the sample, also may cause the sample stress to be even, enhanced has pressed quality.

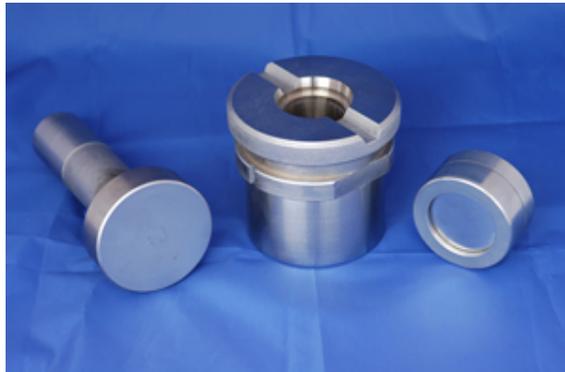
The automatic slowly-decompression: When keep presses the conclusion, starts the slow release of pressure, press head slow downward. (Because in presses time, press head and between sample surface vacuum productions, if discharge head fast downward, Can pull disperses the sample.) After the press head leaves the sample surface, press head fast downward, Proposes efficiency.

Because the automatic slow compression, automatic slowly-decompression, are a type operation, completes automatically, had guaranteed press quality the uniformity.

Type	FFAP-401	FFAP-601
Maximum pressing force	40 Ton	60 Ton
Press tool	boric acid, steel ring, aluminum cup, plastic ring, and low-pressure polythene	
Space between column	220mm	
Maximum course of the press head	100mm	
Keeping-pressure time	0~999 seconds	
Power supply	AC380V, 3-phrace+earth	
Rated load	1.3kw	
Dimension	600×500×1150mm	660×530×1180mm
Weight	350kg	420kg
Ambient temperature	5~40℃	

Accessories

Plastic loop die/Boric acid die/Steel loop die/Aluminum cup die





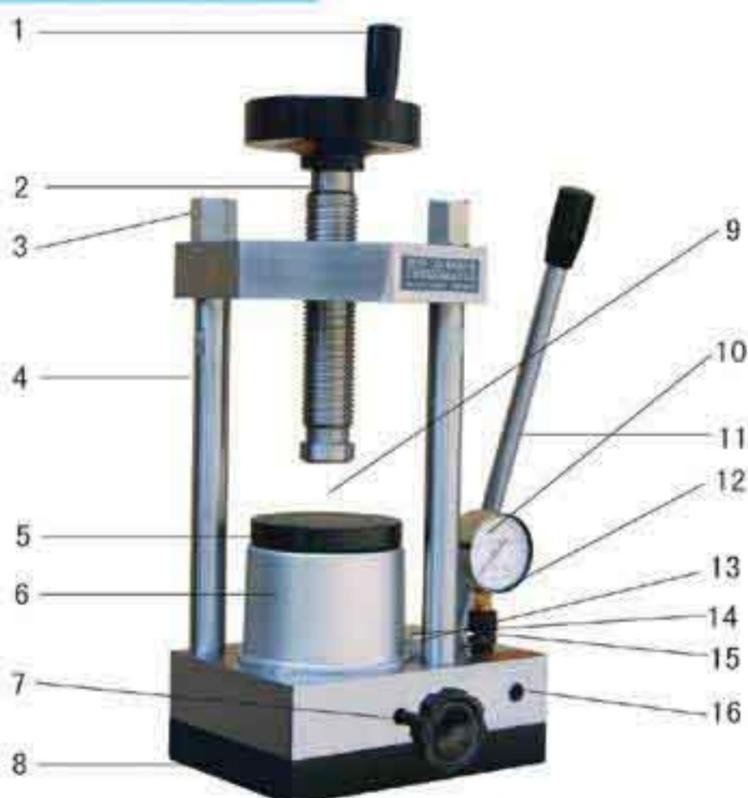
Powder Tablet Compression Machines

Key Technical Index

model	pressure	diameter of piston	largest journey of piston	diameter of worktable	work space	stability of pressure	weight	dimension
FFMP-15T	0-15T(0-25MPa)	87mm	20mm	98mm	140×140×150mm	≤1MPa/5min	36kg	280×210×500mm
FFMP-24T	0-24T(0-40MPa)	87mm	20mm	98mm	94×94×180mm	≤1MPa/5min	40kg	280×210×500mm

Notice: Work space can be adjusted upon request of customers.

Structure

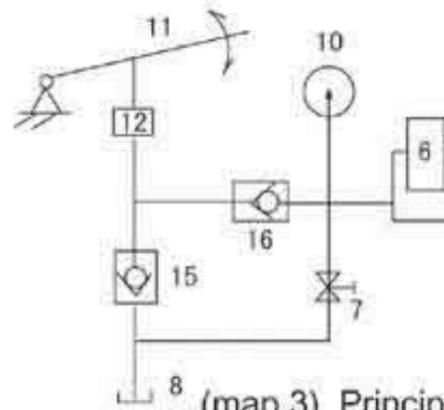


(map 1) FFMP-15T



(map 2) FFMP-24T

- 1. handwheel
- 2. master screw
- 3. fixing nut
- 4. standing post
- 5. worktable
- 6. piston
- 7. oil drain valve
- 8. oil pool
- 9. mould
- 10. manometer
- 11. hand grip
- 12. post plug pump
- 13. oil injecting bolt
- 14. orientation bolt
- 15. oil suction valve
- 16. oil outflow valve



(map 3) Principle of Oil Channel

Principle of Oil Channel (refer to map 3)

During work, oil drain valve 7 is closed. When hand grip is swung, oil is suck from oil pool 8 through oil suction valve 15 and then extruded into piston vat 6 through oil outflow valve. During this process, great quantity of energy is stored and high pressure oil also formed with data indicated on manometer 10. When oil drain valve 7 opens, energy is released.

Procedure

Screw off oil injecting bolt 13, screw on oil drain valve 7 clockwise, then put mould on the center of worktable 5, screw down master screw 2, swing hand grip 11 forward and backward so as to achieve needed pressure. After pressure preservation, unfasten oil drain valve 7 anticlockwise and remove mould.

Automatic Press Machine

ZHY series press machines is utilizing integrated mold pressurizing technology, can be used with press tools for boric acid, steel ring , aluminum cup ,plastic ring and low pressure polyethylene pressurizing.

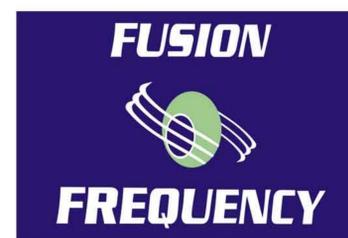
Our unique **slow pressurization and slow decompression** technology is ideal to produce high grade samples.

Automatic slow pressurization ; When the space between press head and the sample is in excess , press head moves upwards quickly, while slows down and goes into slow pressurization while the press head approaches to sample, until it reaches to upper set limit. This process makes the air to be removed out, and ensures uniform pressurizing, and enhances the overall sample quality.

Automatic slow decompression; When slow pressurization is completed, the press starts to release the pressure slowly, and pressure head moves downward automatically. Without this unique slow decompression technique, vacuum between the press head and the sample is unavoidable due to fast movement, which yields pulling and uneven sample dispersing.

When press head is not in contact with sample any more, then the press head falls quickly, to avoid unnecessary waiting time.

ZHY -401A and ZHY-601A models press machines are equipped with PLC (Programmable Control) to control and monitor the status accurately.



Type	FFAP-401	FFAP-601	FFAP-401A	FFAP-601A
Maximum pressure	400kN		600kN	
Press tool	Boric acid, steel ring, aluminum cup, plastic ring and low-pressure polythene			
Interval between columns	220mm			
Plunger stroke	100mm			
Holding-pressure time	0~999 seconds			
Control circuit	PCB	PLC	PCB	PLC
Power supply	AC380V, 3-phrace+earth			
Rated load	1.3kW			
Dimension	600x500x1150mm		660x530x1180mm	
Weight	350 kg		420 kg	
Ambient temperature	5~40 °C			

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