# SD type forming press machine

# Heating / Cooling 42ton automatic forming press machine

WEW MODEL SDOP-1042IV-2HC-AT [Standard JIS K6299]



#### [Feature] Equipped with inverter type pump

- Forming pressure can be shifted automatically.
   (Standard: 4-step, option: Max. 16-step)
- 2 Low sound and energy-saving design





Main Specifications		
4-pole support type		
Hydraulic drive	42ton (MAX)	Inverter type
Hydraulic cylinder ram	diameter	$\phi$ 160 × 180(ST)mm
Heating system	Electric heating	(max. temperature: 200°C)
Cooling system	Water-cooling	system (with air blow)
Dimensions of pressurized plate 400 × 400mm		400 × 400mm
Temperature control	2-system (top-bottom heating plate)	
Temperature control system	Digital type PID proportional control system	
Power source	AC200V 3-phase 50/60Hz 12KVA	
Size	Approx. (W)1350 × (D)1000 × (H)1900mm	
Weight	Approx. 1500kg	

# Vertical transfer forming machine (2-head type automatic injection forming machine)

**WEW** MODEL SDOP-1004PT-SD [Standard EIMS etc.]



Main Specifications				
Forming die clamping pressure		7.8ton (MAX)		
Injection pressure		1.6ton (MAX)		
Hydraulic cylinder ram diameter (C		amping die)	φ 100 × 10	O(ST)mm
	(1	Injection)	$\phi$ 50 × 2	00(ST)mm
Heating System	Electric hea	ating (max.	temperature	e: 250°C)
Dimensions of pressurized	zed plate 250 × 250mm			
Temperature control	4-system	independe	ent control	
Temperature control system	Digital type PID proportional control system			
Equipped with automatic forming program mechanism.				
Power source	AC100V	3-phase	50/60Hz	8KVA
Size	Approx. (V	V)1480×(	D)800×(H)	1950mm
Weight	Approx. 9	50kg		

Example of Spiral flow mold



Patent Pending (Cutter is already patented in USA,CA,KR,JP)



# Full Automatic 4-stage 42ton forming press machine

**NEW** MODEL SDOP-1042IV-8H-FAT [Standard JIS K6299]



Main Specifications		
4-pole support type		
Hydraulic drive	42ton (MAX) Inverter type	
Hydraulic cylinder	ram diameter φ 160 × 260(ST)mm	
Heating system	Electric heating (max. temperature 200°C)	
Dimensions of press	surized plate 300 × 300mm	
Temperature control	8-system (top-bottom heating plate)	
Temperature control sys	stem Digital type PID proportional control system	
Mold stock area	Rotary type: stock nos.: Max: 16 sets	
Power source	AC200V 3-phase 50/60Hz 18KVA	
Size	Approx. (W)3000 × (D)1150 × (H)1850mm	
Weight	Approx. 2000kg	

- [Feature] ① Maximum 16 sets of molds before forming can be stocked. (4-row x 4-stage)
  - 2 One row of all 4-stage can be formed at one time.
  - 3 By the adoption of rotary type mold stock system, continuous forming is possible. Taking out the forming ended molds, and adding new forming molds are possible during automatic operation.
  - 4 The data input of individual forming condition for each row is possible.
  - ⑤ By using the inverter type pump, low sound and energy-saving design have become possible.

### Heating / Cooling 2-stage 42ton automatic vulcanization forming press machine MODEL SDOP-1042-2HC-AT [Standard JIS K6299]



Main Specifications		
4-pole support type		
Hydraulic drive	42ton (MAX)	
Hydraulic cylinder i	ram diameter $\phi$ 160 × 250(ST)mm	
Heating system	Electric heating (max. temperature 200°C)	
Cooling system	Water-cooling system (with air blow)	
Dimensions of pressurized plate 400 × 400mm		400 × 400mm
Temperature control	2-system (top-bottom heating plate)	
Temperature control sys	trol system Digital type PID proportional control system	
Power source	AC200V 3-phase 50/60Hz 10KVA	
Size	Approx. (W)1200 × (D)1150 × (H)1600mm	
Weight	Approx. 1100	kg

#### 4-stage 42ton automatic vulcanization forming press machine

MODEL SDOP-1042-8H-AT [Standard JIS K6299]



Main Specifications		
4-pole support type		
Hydraulic drive	42ton (MAX)	
Hydraulic cylinder ram	diameter $\phi$ 160 × 330(ST)mm	
Heating system	Electric heating (max. temperature: 200°C)	
Dimensions of pressur	ized plate 350 × 350mm	
Temperature control	8-system (top-bottom heating plate)	
Temperature control system	Digital type PID proportional control system	
Power source	AC200V 3-phase 50/60Hz 23KVA	
Size	Approx. (W)1350 × (D)1200 × (H)1700mm	
Weight	Approx. 1600kg	

#### Easy operation by liquid crystal programmable terminal (5.7-inch)







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#### Conforms to New JIS Lightweight Sheet forming mold [Hard aluminum]

The most evident merit of the mold that is manufactured with hardened aluminum is its lightweight.

The specific gravity of hardened aluminum is so light that is one third of carbon steel (S55C) that is conventionally used for the mold. That is why our products are efficient to reduce the work of carrying heavy burden for many workers at the actual job site. Until recently we have manufactured Teflon-lined molds with hardened aluminum. This method is good to separate a molded piece but the surface is easily damaged because of its insufficient hardness.

Now we have developed new technology to plate hard chromium plating on the surface of hardened aluminum mold that is hard enough just like conventional carbon steel made mold.

- Lightweight
- Excellent heat conductivity
- High hardness

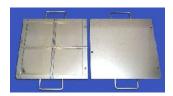
Weight is approx. 1/3 than that of carbon steel.

Approx. 2 times than that of steel.

Substantially shortened a shot cycle at the time of forming.

Nearly equal to S55C, High strength and high separation characteristic of molded piece.

Lightweight sheet forming mold
MODEL MP-124NJAKC



Sheet size  $150 \times 150 \times 2(t)$ mm Cavity: 4

Lightweight Mold for compressed strain test
MODEL MPL-309LAKC



JIS K6262 Large test piece  $\phi$  29mm cavity: 9

# 42ton Automatic vulcanization forming press machine

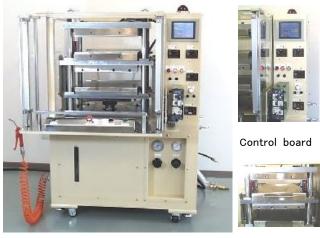
MODEL SDOP-1042-2H-AT [Standard JIS K6299]



Main Specifications		
4-pole support type		
Hydraulic drive	42ton (MAX)	
Hydraulic cylinder ram	diameter $\phi 160 \times 150(ST)mm$	
Heating system	Electric heating (max. temperature 200°C)	
Dimensions of pressuri	rized plate 400 × 400mm	
Temperature control	2-system (top-bottom heating plate)	
Temperature control system	Digital type PID proportional control system	
Power source	AC200V 3-pha	se 50/60Hz 10KVA
Size	Approx. (W)1200 × (D)1150 × (H)1500mm	
Weight	Approx. 1000kg	

# Heating / Cooling 2-stage 20ton automatic forming press machine

MODEL SDOP-1020-2HC-AT



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Main Specifications		
4-pole support type		
Hydraulic drive	20ton (MAX)	
Hydraulic cylinder r	ram diameter φ 140 × 250(ST)mm	
Heating/cooling simultaneous pressurized drive system		
Heating system	Electric heating (max. temperature 250°C)	
Cooling system	Water-cooling system (with air blow)	
Dimensions of pressu	urized plate 400 × 400mm	
Temperature control	2-system (top-bottom heating plate)	
Temperature control sys	stem Digital type PID proportional control system	
Power source	AC200V 3-phase 50/60Hz 10KVA	
Size	Approx. (W)1040 × (D)1000 × (H)1400mm	
Weight	Approx. 900kg	

Pressurized · Cooling plate

#### [Feature]

- ① Cooling time, deflation shot number & time, forming time are completely operated automatically.
- ② Easy operation by liquid crystal programmable terminal (5.7-inch).

#### HANDLING ITEMS

Manufacturing of various kinds of Physical Testing Machines
Specimen Forming Molds for testing and Related Equipments
SD type Sample Cutting Cutter and Related Equipments



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