

# Powder Compacting Technology

Servo Motor Direct Drive



## Hi-PAS



**KOBAYASHI**  
INDUSTRY CO., LTD.

# Hi-PAS series

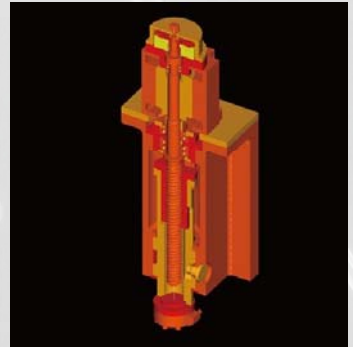


## Direct Drive Unit

The rotor of servo motor is directly connected to ball screw.

### Features:

- High rigidity
- Low noise
- High accuracy in positioning and repetition



## Safety

For safe operation, some safety equipment is installed.

### Features:

- Safety cover
- Front optical sensor for emergency stop
- Double-press sensor

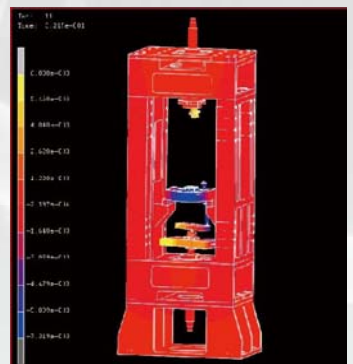


## Design on FEM Analysis

Machine body and main parts are designed on Finite Element Method.

### Features:

- Optimum structural stress distribution
- Optimum parts configuration
- Symmetry transformation

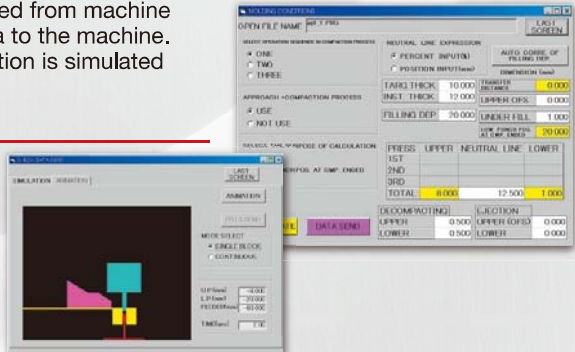


## User-friendly Man-Machine-Interface (MMI)

MMI gets information you need from machine and sends the operation data to the machine. For safety purpose, press action is simulated in animation screen.

### Features:

- Easy and free operation
- Operation and Safety check
- Customized for order

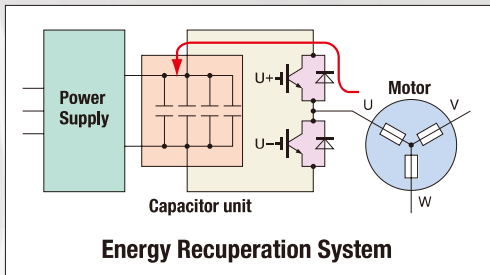


## Energy Recuperation System

The energy which may generate at the time of deceleration is stored in capacitors.

### Features:

- Save energy
- Power consumption: 1.3Wh per piece at 3sec/cycle, 40KN load
- Safety emergency stop at power failure



## Multi-platen and molds

Three upper and lower axes which act individually are available.

Maximum pressing force at each axis is 300KN.

We can provide you with some specialized molds for multi-platen powder compacting.

# Hi-PAS series

## Withdrawal Type

Model		6A	10A	20A	40A	60A
Features		Withdrawal, AC Servo Motor Direct Drive				
Upper Ram Capacity	KN	60	100	200	400	600
Upper Ram Stroke	mm	130	140 or 200	140 or 200	200	300
Die Ejection Capacity	KN	30	50	100	200	300
Die Stroke	mm	60	70 or 100	70 or 100	100	150
Feeder Stroke	mm	300	300	300	300	300
Core Rod		Pneumatic Cylinder as standard				
Core Stroke	mm	40	50	50	50	75
Machine Weight	Kg	3500	5000	6000	8000	10000

## Stationary Die Type

Model		6AD	10AD	20AD	40AD	60AD
Features		Stationary Die, AC Servo Motor Direct Drive				
Upper Ram Capacity	KN	60	100	200	400	600
Upper Ram Stroke	mm	130	140 or 200	140 or 200	200	300
Lower Ram Capacity	KN	60	100	200	400	600
Lower Ram Stroke	mm	60	70 or 100	70 or 100	100	150
Feeder Stroke	mm	300	300	300	300	300
Core Rod		Pneumatic Cylinder as standard				
Core Stroke	mm	40	50	50	50	75
Machine Weight	Kg	3700	5300	6300	8400	10500

Subject to minor change without notice.  
Ready to design and make based on technical meeting.

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