Civic Series  C-Type High Speed Precision Press
Features

**Frame of cast iron and excellent design of structure**
1 set of massive frame resist deflection and reduce vibration. Reciprocating accuracy of bottom-dead center is kept within 0.002mm because of excellent design of structure. With collect chute of material lubrication, outlook of press keeps clean.

**Dynamically balanced device**
Dynamically balancer reserves weight of upper die to eliminate the inertia produced by reciprocation. Hence, vibration can be reduced to an extreme low level.

**4 points of crank supporting**
2 bearings and 2 copper bushings are both applied. Except smaller clearance, copper bushings can resist wear throughout years.

**Eccentric Shaft**
The strength of eccentric shaft is more than general crankshaft. Less deflection and more power output are the advantage.

**Aluminum alloy air clutch**
Aluminum alloy air clutch has the advantage of high torque and low inertia. Work sensitively and smaller brake angle. With shedder device, tool jam is solved easily.

**High rigid & low inertia slide**
Slide requires better casting material. Enhance strength, but light weight and lower inertia. The B.D.C is more accurate during reciprocation.

**Hydraulic locking device of screw rod**
Hydraulic locking device of screw rod eliminates the clearance to keep reciprocating accuracy.

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**Computer screen control system**
- Screen displays situation of press. Easily operate and quickly maintain
- Brake angle memory to stop slide accurately
- Display press speed and angle
- 2 reset-able counters
- 2 settings of detecting angle of mis-feed
- 2 settings of output angle of cam
- 3 settings of batch counters with 5 data memory
**Plunger & Dual-guide-post**

Plunger isolates slide from angular front-to-back movement of connection. Dual-guide-post symmetrically absorbs sideward thrust during stamping. Casting guide hole in frame enhances the strength of guiding system. Static pressure design is applied at plunger & guide posts. Because of high pressure supporting and none wear, keep verticality throughout years. (Protected by patent, don't imitate)

**Gap enclosure**

Gap enclosure design can decrease gap open during stamping to increase die service life. (Protected by patent, don't imitate)

**Circulating device of lubrication**

Oil reservoir is inner of bed. All components are lubricated to prevent from wear by pump of high pressure.

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**Refrigerant cooling system**

Oil temperature is controlled stably after prior half hour of running to keep heat expansion within 0.05mm. Cooling is separated from circulation to prevent from condensing water inwardly.
**Dynamic Accuracy Test**

Except JIS static accuracy test, Civic press passes dynamic accuracy test before shipment's approval. 3 B.D.C. tests include "start running at constant speed", "at stable temp. & constant speed" and "start running & acceleration".

**B.D.C test: Running at stable temp. & constant speed**

After press temp. keeps stable, press keeps running at 800 SPM and record the B.D.C positions of 1,000 stamping. The maximum gap is ±0.001mm (±1 μm).

**B.D.C test: Start running at constant speed**

Press starts continuous running at 800 SPM. The maximum gap is 0.04mm. The B.D.C. keeps stable after 30 minutes during running continuously.

**B.D.C test: Start running & acceleration**

Press starts continuous running at 200 SPM. Every 3,000 stamping, accelerate 100 SPM step by step until 800 SPM. The press temp. is rising during acceleration. At 100 SPM acceleration, B.D.C changes 0.02mm averagely. The maximum gap is 0.05mm.

**Standard Accessories**

- Dynamic balance device
- Lubricant refrigerant cooler
- Anti-vibration air type cushion
- Strengthen door device
- Inverter
- Manual slide adjust & locking device
- Shutoff height indicator (0.01mm)
- Material lubrication device

**Optional Accessories**

- Motorized slide adjustment
- Clock-type angle indicator

- Mis-feed joint x 2
- Material-end joint x 1
- Batch joint x 2
- Cam joint x 1
- Solenoid valve for material eject x 1
- Joint for air gun x 1