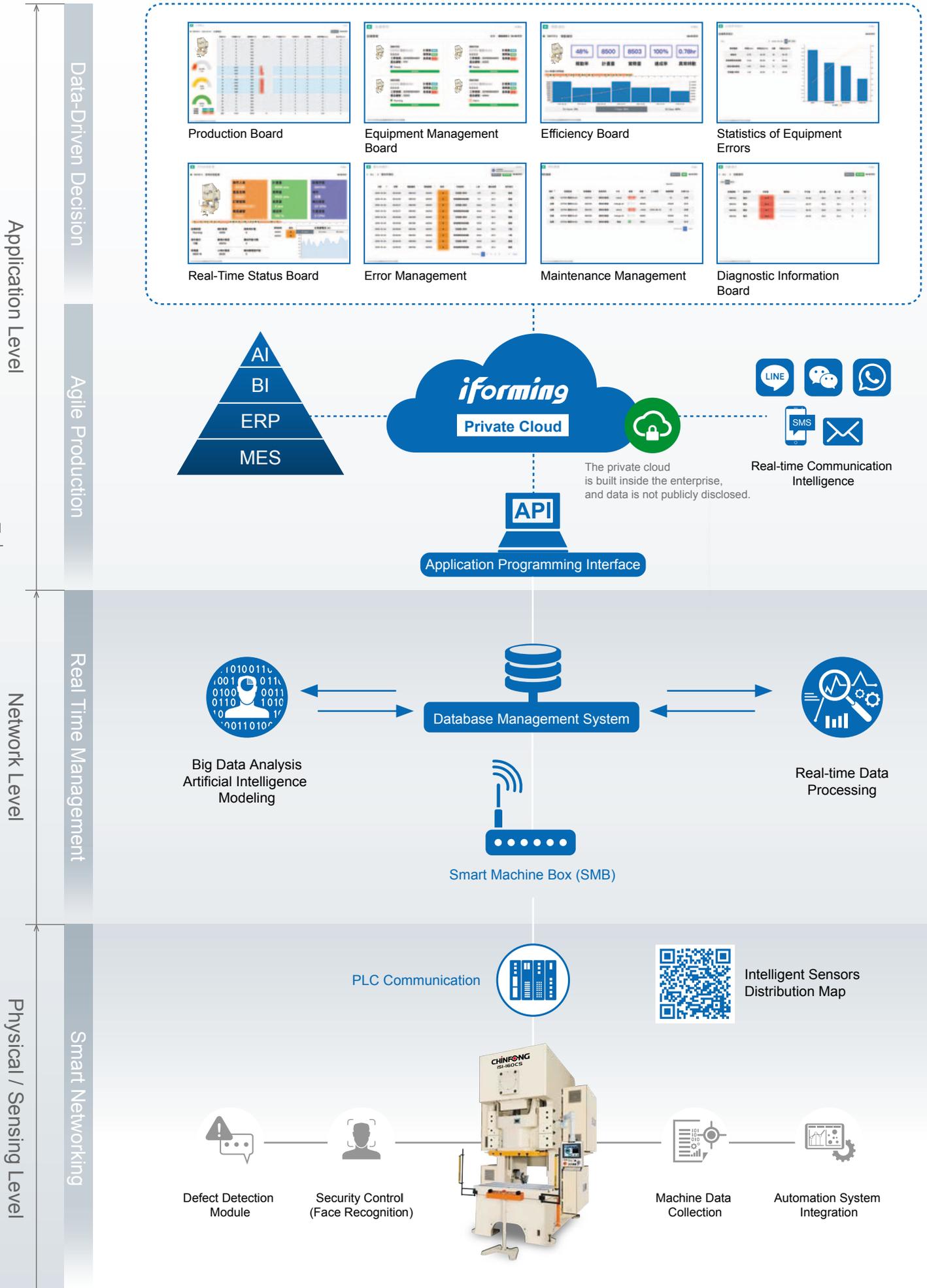




金豐機器工業股份有限公司  
CHIN FONG MACHINE INDUSTRIAL CO., LTD.



01

Intelligent

Management  
Controlling

System

001 ▶



## Automation Platform

Through Ethernet connection, it makes plant management available to either operate peripheral equipment or monitor production lines.

002 ▶

## All-in-One Integration



It integrates functions of press motion control technology, closed-loop drive control, into single, all-in-one control module that truly integrate all equipment into one machine.

003 ▶

## High Efficiency and High Precision



It carries high speed CPU that enables faster data processing system capability and excellent response performance, plus functional motion curve setting and control features facilitate better operations capability in accurate, efficient and stable way.



## Precision

Increase forming precision by applying servo control system.



## Intelligence

Servo control system and real-time monitoring intelligent program create high-precision stamping technology.

Servo  
m o t

03



## Availability

Human machine interface make operating more user friendly.

## Breakthrough the Bottleneck of Conventional Press Forming Processes

## Green Design



### Increase Drawing Ratio

Simplified multi-stage drawing processes.  
Significantly enlarge the parts drawing ratio in one-time operation.



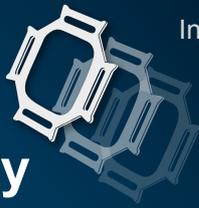
### Upgraded Precision for Bending Process

Reduce springback effectively by using retention B.D.C. function.



### Fine Blanking

Set specific motion curve with appropriate die for fine blanking.



## Forming Quality

Servo electronic system upgrades press capacity, increasing forming quality.



### Diversification

Free slide motion is well-suited for diverse working applications.



## Productivity

Improved productivity as a consequence of programmable speed in conjunction with versatile motion curves.



04

# Press

i o n

Reduce electricity consumption and noise at idle running and prolonging die life.



## Environmental-Green

Servo press consumes lower electricity on stand-by mode.

## Added Value



Diversified and broaden product range through compound motion curves.

## Synergistic Effect of Servo Press Forming Technology



### Improved Forming Capability for Press Forging

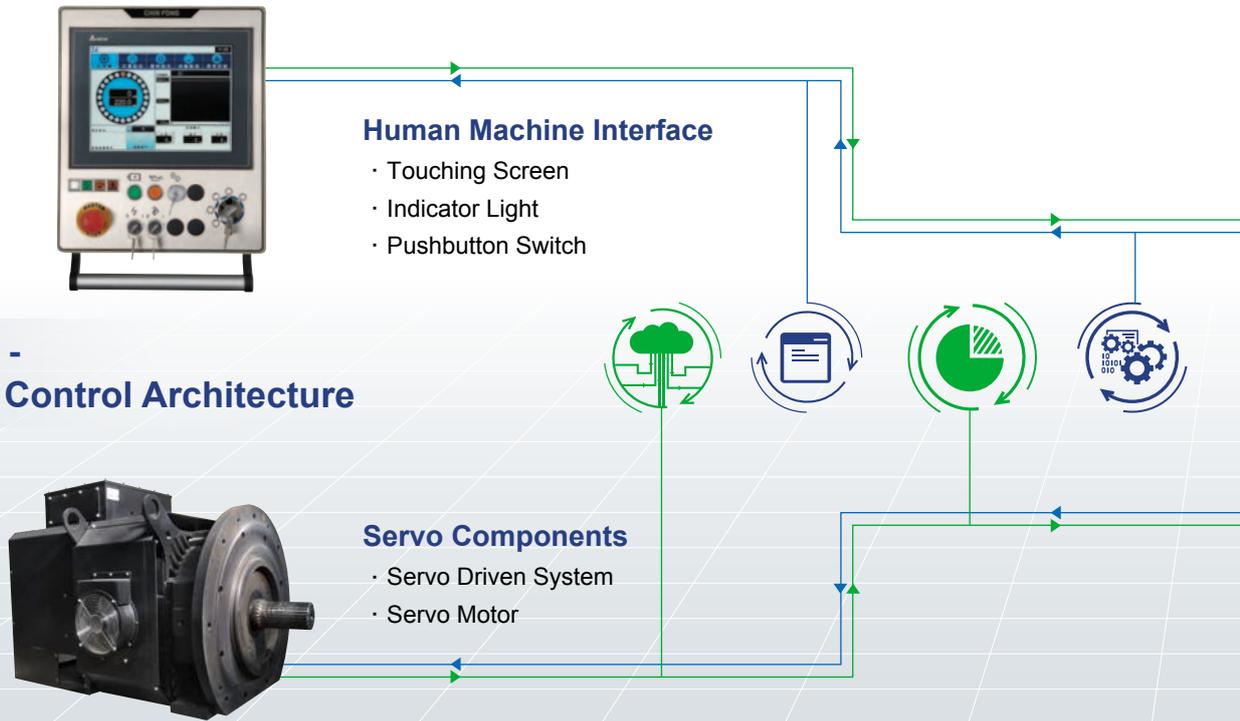
Freely setting forming speed for optimized press forging process of all kinds of material. It is suitable for perforation process of Print Circuit Board (PCB).



### In-Die Compound Machining

Transform cutting station for specific need.

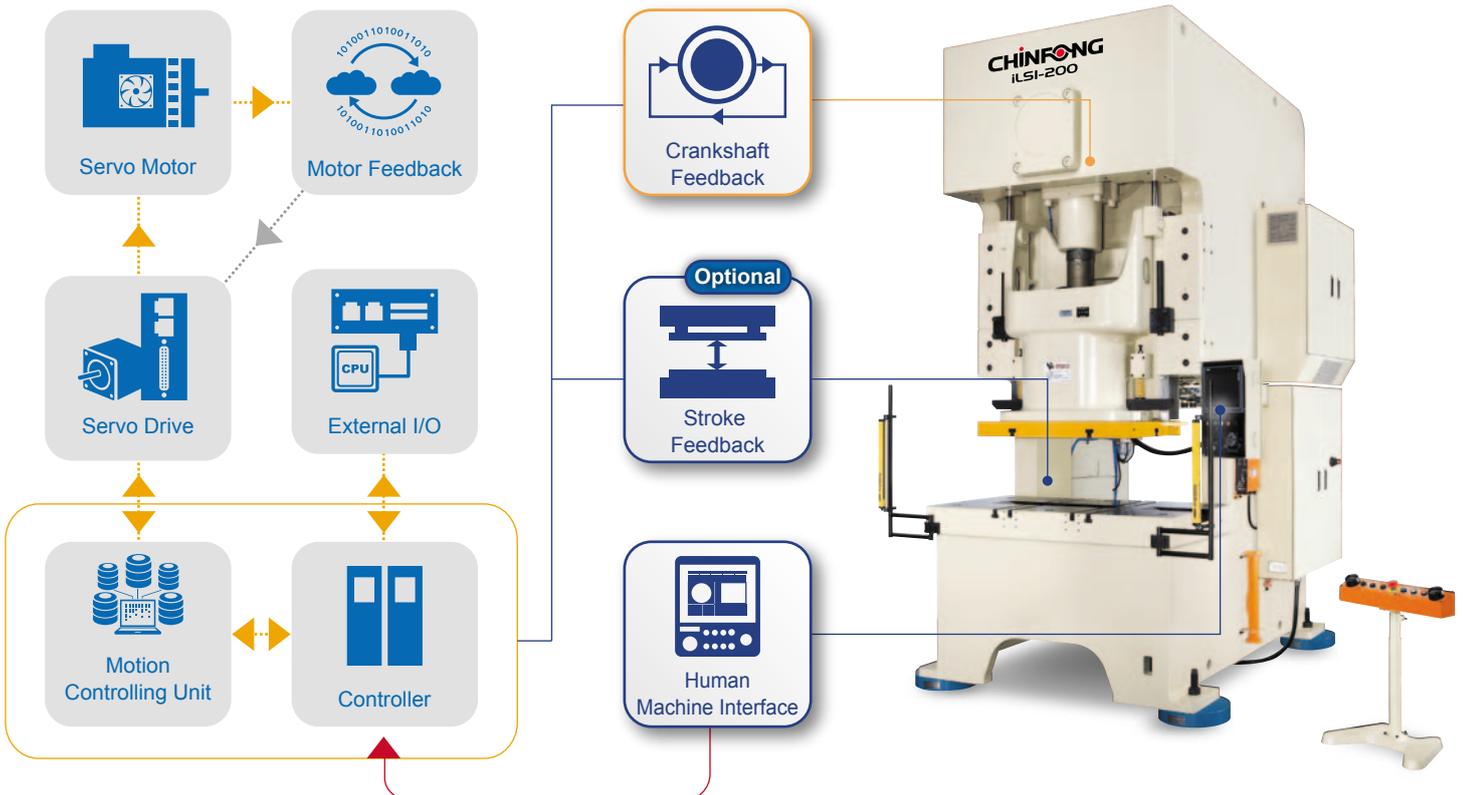
Servo Press - Electric and Control Architecture

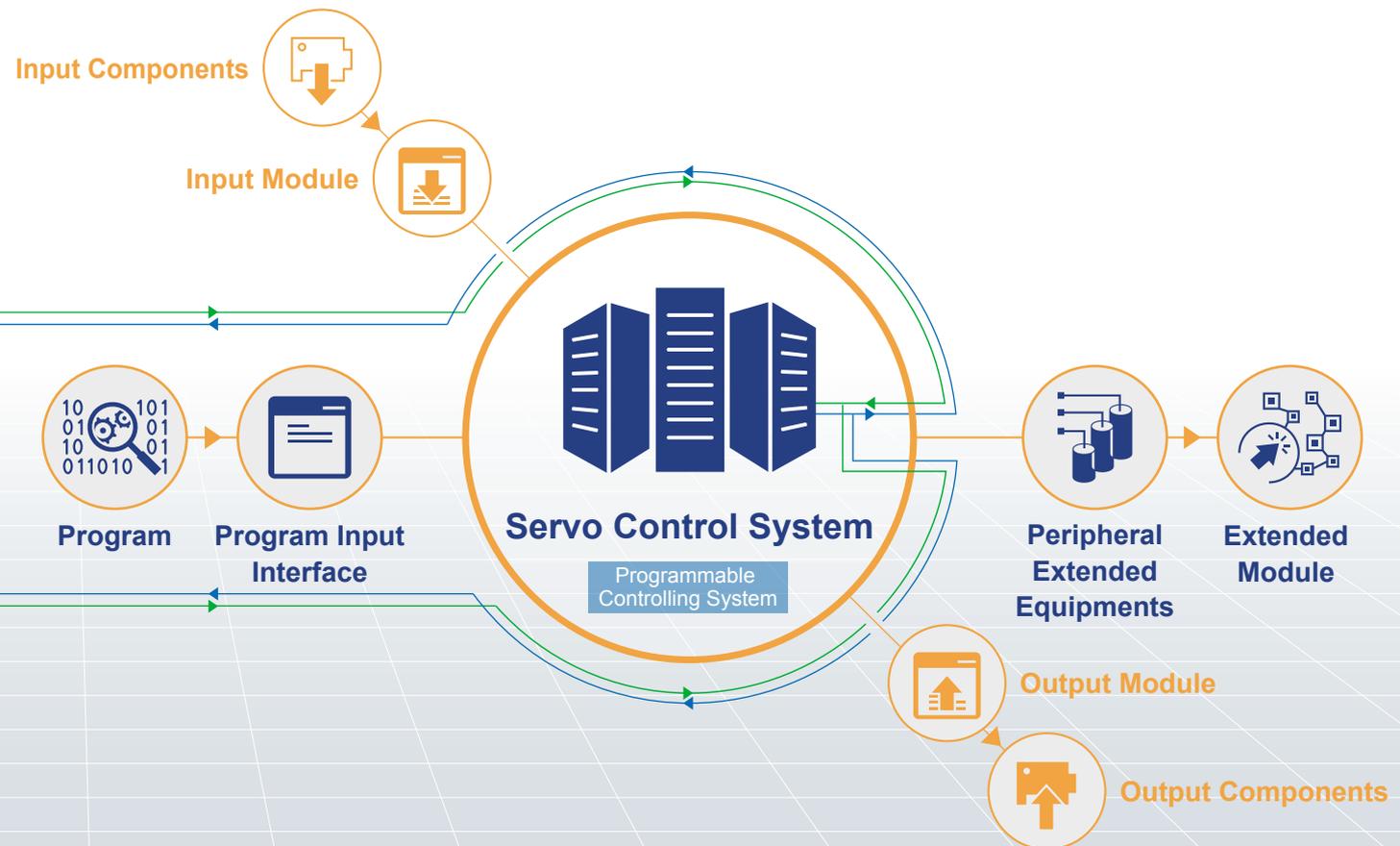


05

Control System

Powerful servo electronic system serves as foundation of achieving high precision, high stability and multi-segment curve setting.





## PLC Programmable Controlling System

<p><b>Employ Monitor System In PC or Human Machine Interface</b></p>	<p>Data can be displayed and operated on PC or human machine interface (HMI) where data is inputted via port of PLC server.</p>	<p><b>Expansion Accessible</b></p>	<p>Enable flexible I/O module expansion and extension RAM capacity in terms of actual requirement.</p>
<p><b>Operating Reliability</b></p>	<p>Microprocessor and optical coupler are applied to core component and signal processing respectively, leading to noise reduction and improving the reliability.</p>	<p><b>Operation Monitoring System</b></p>	<p>Real-time monitoring system is used to monitor main motor and I/O status. HMI displays alarm signal, with historical database inquiry and troubleshooting references.</p>
<p><b>Convenient Maintenance and Installation</b></p>	<p>Hosting control panel can display various status of ON/OFF setting connected to devices, such as solenoid switches and push-buttons, switches and indicator and so forth, through I/O LED, being able to facilitate fault detection and troubleshooting.</p>	<p><b>Stamping Database Building and Management</b></p>	<p>Memorize it in real-time, retrieve it at any time-create and manage stamping operation database easily by inputting critical operation and process parameters, such as slide motion speed, stroke length and material for different dies, into system built-in database, providing handy aids to plant management and result in significant production efficiency improvement.</p>



# Advantages of Servo Press

07

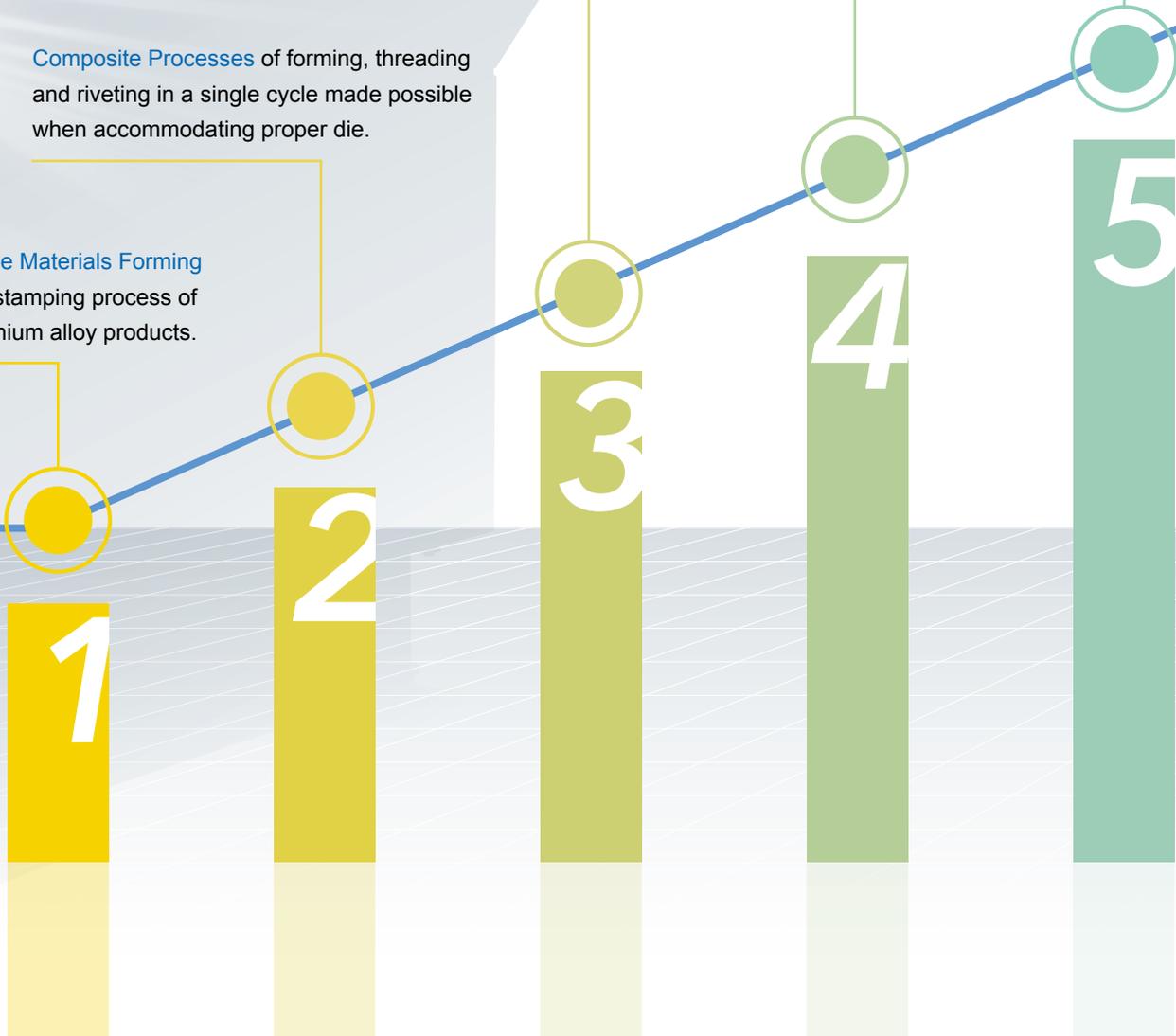
Select and adopt the optimal slide motion curve according to various production requirements of versatile products consequently **Improve Production Efficiency**.

**Composite Processes** of forming, threading and riveting in a single cycle made possible when accommodating proper die.

Overcome **Intractable Materials Forming** difficulties, such as stamping process of magnesium and titanium alloy products.

Improve product stability and precision, and prolong die life to realize **Low Noise, Low Vibration Processes**.

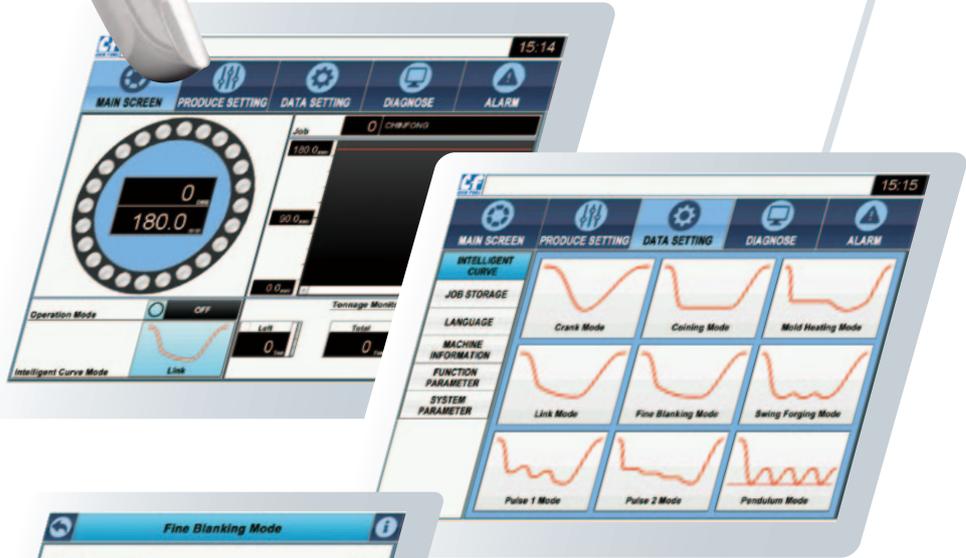
When incorporating with automation system, **Free-setting Forming Velocity and Motion Curve** in accordance with each stage's process conditions.



# Human Machine Interface – Intelligent Curve



*User Friendly Touch-panel Interface*



Forming process with minimum drawing and bending stages requirement, which Improve Production Efficiency, Parts Quality Stability and Precision.

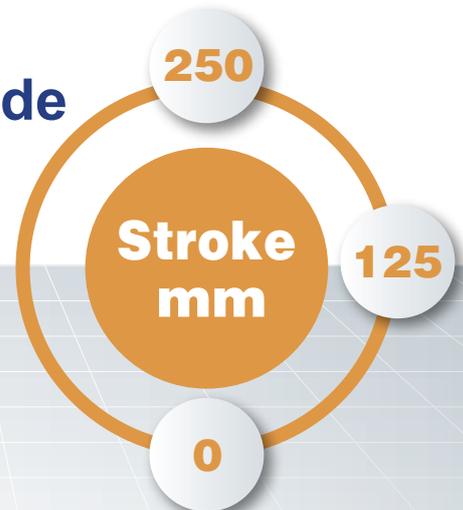


6

*Build-in Multiple Intelligent Working Curves*



**Variable Slide Stroke and Speed**



Diversified Intelligent Machining Technology

Crank Mode



Fine Blanking Mode



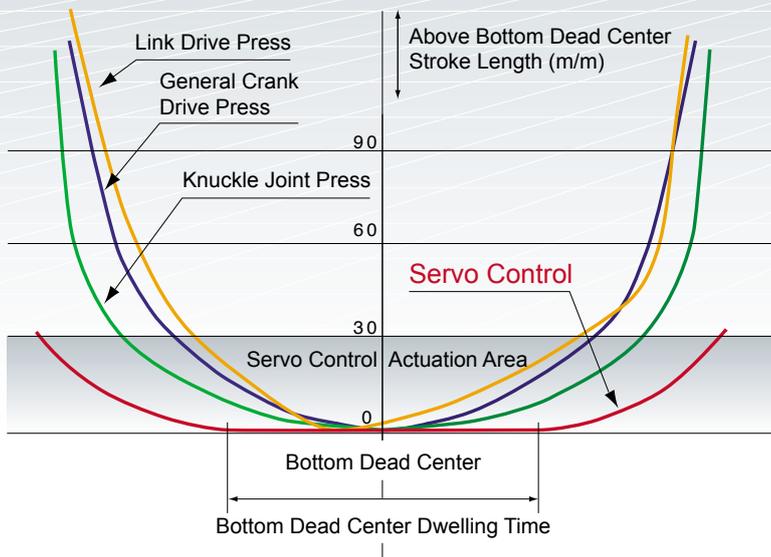
Mold Heating Mode



Pulse 1 Mode



09



Motion Diagram of Servo Drive Press

- Free setting for slide motion speed satisfies versatile forming conditions and requirements.
- Flexibility of forming motion diagram setting and optimization to overcome forming process difficulties of intractable shapes and materials.
- Flexible B.D.C. dwelling time setting reduces spring-back in extrusion, bending and compound process forming applications.

**Pulse 2 Mode**



**Drawing Mode**



**Pendulum Mode**

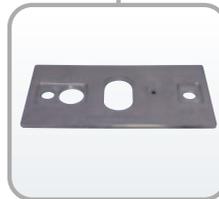


(Link Servo is non-applicable)

**Coining Mode**



**Forging Mode**



Achieve energy-saving at intermittent mode while incorporating transfer robots by decelerated motion instead of completely T.D.C. stop.

Only 1 % of electricity consumption on stand-by mode compared with forming, working energy is even capable at low speed.



Significantly increase material utilization ratio by setting and controlling motion curves.

Auto control system effectively increases production and lower demand for labor.

Decelerated motion speed while upper die is reaching parts avoid noise and vibration even in heavy thickness material perforating applications.



# iS2

## Straight Side Double Crank Direct Drive Servo Press

Servo press replace flywheel and clutch & brake with servo motor. Through one-stage or two-stage reduction gear ratio, the servo motor can directly actuate the rotation of crankshaft and move the slide up and down.

### Features

- Low reduction ratio means while stamping, the motor needs greater torque and low rotational speed.
- Under the pendulum mode, the motor has the same stamping capacity.
- The slide motion curve is performing the simple sinusoid motion curve when the motor is at the constant speed.



## Specifications

Specifications		Type	iS2-160	iS2-200	iS2-300	iS2-400	iS2-500
Capacity	Ton		160	200	300	400	500
Rated Tonnage	mm		6	6	6	6	6
Stroke Length	mm		220	250	300	300	350
Stroke Per Min.	S.P.M.		~60	~50	~40	~40	~40
Die Height	mm		450	500	600	650	700
Slide Adjustment	mm		100	110	120	120	120
Slide Area (L.R.xF.B.)	mm		1650x600	1950x700	2300x850	2400x1100	2400x1100
Bolster Area (L.R.xF.B.)	mm		1950x800	2250x900	2600x1100	2700x1200	2700x1300
Side Window	mm		800x400	900x450	1100x550	1200x600	1300x650
Bolster Thickness	mm		150	160	190	190	220
Max. Upper Die Weight	kg		1000	1200	2000	2500	3000
Slide Adj. Motor	kWxP		0.75x4	1.5x4	1.5x4	1.5x4	2.2x4
Working Height	mm		950	1000	1150	1200	1300
Air Pressure	kg/cm <sup>2</sup>		5	5	5	5	5

# iLS1-C

## Intelligent Link Drive Single Point Servo Press

### Realizing

- Intelligent motion curve.
- Improved stability of stamping product.
- Improved component drawing.
- User-friendly operation panel.

### Adopting

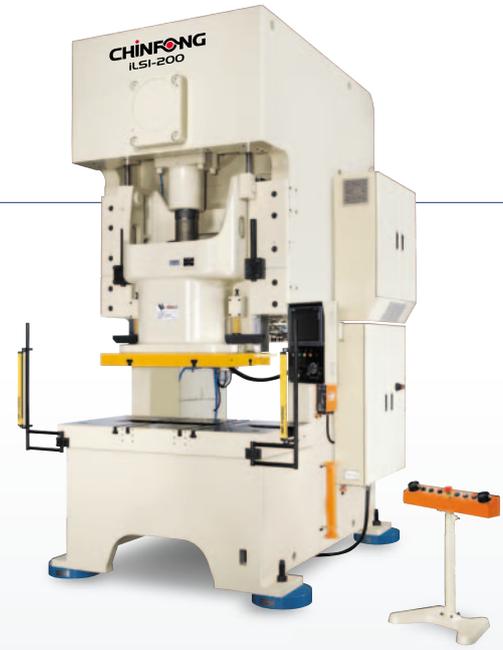
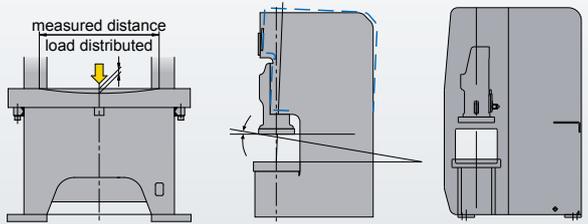
- High precision servo system.
- Wide slide design.
- Intelligent pulse mode.
- High precision gear transmission mechanism.
- Widen bed.
- Mini touching human machine interface.

### Super Rigid Steel Frame

- Optimal rigid frame.
- Increase product precision.
- Prolong die life.

### High Rigidity

High rigidity and low deflection can reduce frame deflection resulted from stamping. Finite element analysis (FEA) of main components, such as frame, crankshaft, link, slide and etc., carries out optimal design by collecting data of force and deflection for every component.



### Free Preset

Motion Speed

Idle Time

Operating Start Angle

Forming Start Angle

### Specifications

Specifications	Type	iLS1-110		iLS1-160		iLS1-200		iLS1-260		
		C		C		C		C		
		S	H	S	H	S	H	S	H	
Capacity	Ton	110		160		200		260		
Rated Tonnage	mm	5		6		6		6		
Stroke Length	mm	180	110	200	130	200	150	250	180	
Stroke Per Min.	S.P.M.	~65	~100	~50	~85	~45	~70	~40	~60	
Die Height	mm	350	385	400	435	450	475	450	485	
Slide Area (L.R.xF.B.)	mm	800×520		900×580		1000×650		1100×700		
Bolster Area (L.R.xF.B.)	mm	1280×700		1450×760		1570×850		1700×900		
Bolster Thickness	mm	120		150		160		180		
Slide Adjustment	mm	90		100		110		120		
Slide Adj. Motor	kWxP	0.4x4		0.75x4		0.75x4		1.5x4		
Die Cushion										
Capacity	Ton	8		10		14		14		
Pad Area	mm	500×300		540×350		640×470		700×470		
Stroke Length	mm	80		80		100		100		

# iLS1-D

## Intelligent Link Drive Single Point Servo Press

### Safety Light Curtain

Optical sensor allow emergency stop for safety reason.

### Motorized Grease Pump

Regularly lubricate pumps and fault detector to maintain operation smoothly.

### Human Machine Interface

Human-centered design and user-friendly operation.

### Safety Brake Device



14

Driven by press-designated high efficient servo drive, able to stabilize slide motion and press capacity.

Free-setting of motion curve is available for fine blanking, including blanking, bending, drawing, compressing and etc., improving production efficiency.

## Specifications

Specifications		Type	iLS1-110		iLS1-160		iLS1-200		iLS1-260	
			D		D		D		D	
			S	H	S	H	S	H	S	H
Capacity	Ton	110		160		200		260		
Rated Tonnage	mm	5		6		6		6		
Stroke Length	mm	180	110	200	130	200	150	250	180	
Stroke Per Min.	S.P.M.	~65	~100	~50	~85	~45	~70	~40	~60	
Die Height	mm	350	385	400	435	450	475	450	485	
Slide Area (L.R.xF.B.)	mm	800×520		900×580		1000×650		1100×700		
Bolster Area (L.R.xF.B.)	mm	1000×700		1150×760		1250×850		1350×900		
Bolster Thickness	mm	120		150		160		180		
Side Window	mm	750×500		800×560		900×610		950×660		
Slide Adjustment	mm	90		100		110		120		
Slide Adj. Motor	kWxP	0.4x4		0.75x4		0.75x4		1.5x4		
Die Cushion										
Capacity	Ton	8		10		14		14		
Pad Area	mm	500×300		540×350		640×470		700×470		
Stroke Length	mm	80		80		100		100		

## Standard Functions / Accessories

- Operation Mode Selection  
Off / Inching / Safety One Stroke / Continuous
- Safety Braking System
- Hydraulic Overload Protector (H.O.L.P)
- Motorized Slide Adjusting Device
- Motorized Grease Pump
- Circulating Forced Oil Lubrication Device
- Slide & Die Balance Device
- Servo Control System & HMI Operation Panel
- Energy Storage Device
- Electronic Rotary Cam Switch (6 spare channel)
- Misfeed Detection Consent
- Digital Die Height Indicator (unit: 0.1mm)
- Overrun Detector
- Air Ejector
- Air Source Receptacle
- Portable 2-hand Pushbutton T-stand
- Safety Block with Plug

## Optional Function / Accessories

- Pneumatic Die Cushion
- Die Pin-hole Tap
- Extended Module of Electronic Rotary Cam Switch (8 spare channel)
- Slide Knock-out Device
- Automatic Slide Adjusting Device
- Safety Light Curtain
- Power Receptacle (Single phase, 110V / 220V power source wiring by user)
- Anti-vibration Press Mounts
- Die Area Light
- Air Ejector (Additional)
- Air Source Receptacle (Additional)
- Automation Peripherals
- Quick Die Change System
- Electrical Hand Wheel
- HMI Load Monitor
- Intelligent Forming Productivity Management System



INNOVATION, SERVICE, COMMITMENT

Mechanical power press manufacturer

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