

Multi-Purpose Link Drive Servo Motion Presses





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One Machine, Multi-Purpose

One Gycle, Multi-Segment Curves

Energy Saving, Environmental Friendly

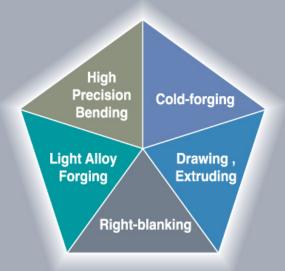


SPECIFICATIONS

MODEL		DLS-110		DLS-160		DLS-200	
Туре		S	Н	S	Н	S	Н
Capacity	Tons	110		160		200	
Rated tonnage point (above B.D.C)	mm	5	5	6	6	6	6
Stroke length	mm	150	110	200	130	200	150
Strokes per minute	SPM	~65	~100	~50	~85	~45	~70
Die height (S.D.A.U)	mm	350	320	400	350	450	410
Slide area (L.R x F.B.)	mm	650x520		700x580		850x650	
Bolster area (L.R x F.B.)	mm	900x700		1000x750		1150x850	
Bolster thickness	mm	120		150		160	
Side opening	mm	750x500		800x560		900x610	
Slide adjustment	mm	90		100		110	
Slide adjusting motor	HPxP	0.5(0.4Kw)x4		1(0.75Kw)x4		1(0.75Kw)x4	
Die Cushion				W.			
Capacity	Tons	8		10		14	
Pad area (L.R. x F.B.)	mm	500x300		540x350		640x470	
Stroke	mm	80		80		100	

Features of servo drive press

Wider Forming Application



Cost Reduction

Prolonging press machine life Disuse of die setter Improvement of output

Die Improvement

Prolonging drastic die life

Complete protection of missed (double) punch in missed feed Optimized parameter setting feature for complicated structure die (multiple cam type, compound forward transfer type and inner tapping type)

Raise Efficiency

Much slower forming time and much faster non-forming motion to raise production rate.

Increase Accuracy, Stability

Preset optimum motion curve according to forming character to increase accuracy and stability of product.

Noise and Vibration Reduction

The feature that can reduce motion speed drastically as soon as upper die touches material and can reduce breakthrough extremely achieves both steel plate blanking noise and vibration realizing next to "zero"

Safety Measure

The Digital Forming has a slide of low inertia servo driven system. The machine without air solenoid valves for clutch and brake control. eliminates possibility of accidents.

Energy Saving

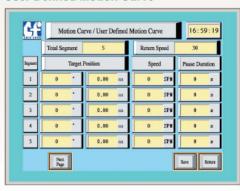
Press power on/off operation such as single stroke or robot operation especially, can save consumption of electric power because of low start-up electric power. The press itself consumes practically no air (except optional equipment).

Intelligent Touch Panel

Humanized Operation Interface



User Defined Motion Curve



I Operating Status Monitoring

- Press Motion Detector monitors excessive wear of lining, Encoder signals, and Brake Engagement to ensure press operating safety.
- Real time, One-Page HMI Displayed Servo Motor loading status: Ampere, Torque, and Temperature.
- HMI Displayed Error Message with Trouble-Shooting and History.
- 4. Real time I/O Status Monitor.

Ⅲ Motion Curves

- 1. 4 Built-in Motion Curves for ready applications.
- User Defined Motion Curve: upto 20 various segments in a cycle curve can be defined by segment position, speed and pause duration parameters so as to meet complicated process requirements.

III Electrical Angle Control

- Electrical CAM Switches are set and monitored thru HMI screen.
- 8 spare cams available with upto 32 channels expansion capability.

▼ Operation Counters

- Standard operation counters including Preset Counter and Life Counter.
- Batch Counters and Cutting Scalar can be added optionally.

▼ Provisional interface for Peripheral Devices

CAM angel controlled misfeed detection circuits A1 & B1 can be used as ON/OFF range setting, and A2 & B2 can be set for all-time detection. Both A and B port can be individually set for serial detection.

4 Built-in Motion Curves for ready applications.



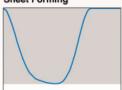
Deep Drawing



Die Heating



Sheet Forming



Feeding Automation

Eliminates conventional press operation's bottleneck and increases added value.

The Digital Forming Multiplies Benefits

Improvement of Drawing Rate

Securing operation step reduction in multiple drawing operation Drastic extension of one shot drawing range.

Improvement of Bend Accuracy

The Bottom Dead Center dwelling feature reduces material spring-back extremely.

Right Blanking Capability

Right blanking (simplified fine blanking) can be easily made with standard die cushion thrust force under normal die structure. All needed is just reducing die clearance.

Improvement of Extruding Forming Ability

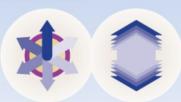
Available of optimized operation speed setting for forward and backward extrusion to meet with material. Knockout (upper and lower) mechanism is also simplified.

- Applicable to Print Circuit Board Blanking
- Compound Processing Capability with Single Die (three-step forward transfer and inner tapping)
- Possibility of Changing in Cutting Operation Procedure

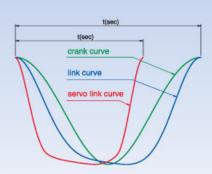
Innovation conception for the conventional presses' drive being substituted by servo motor

The Digital Forming Innovates Your Image of New Century's Press Machine

Shift From Slide Angle Concept to Position Concept



Ultimate Motion Generated From Optimized Parameter Setting For Motion And Motion Time.



Slower The Part Forming Portion As Much As Possible, While Faster Other No-Forming Motion As Much As Possible!

Free Preset

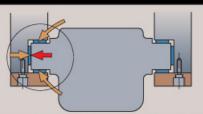
- Motion Speed
- Operation Start Angle
- Bottom Dead Center Dwelling Time
- Forming Start Angel

Driven by the press-designated servo drive motor-high torque with the full energy at low speed, able to stabilize

Slide motion and tonnage

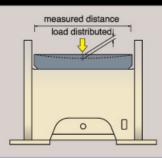
Free setting forming curve is available with "Jog Pulse" in the compliance of the requirement for all kinds of forming-blanking, bending, drawing, extruding, also the productive is increased greatly

Box Type Six-Point Gib

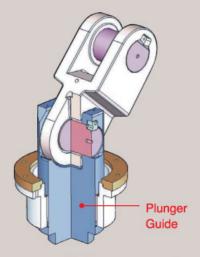


One-piece, full-length, box type gibs assure actuated slide guiding. Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.

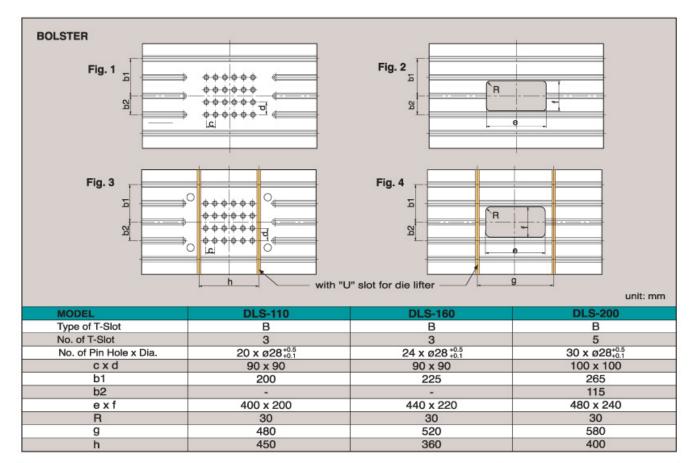
Minimize Frame Deflection

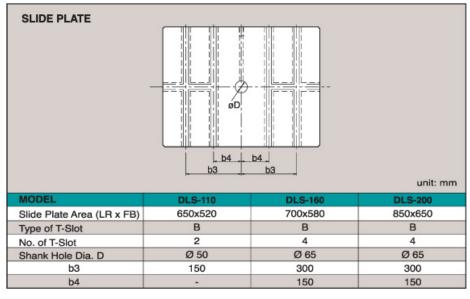


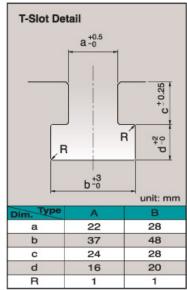
Plunger Guided



- Lateral force occurred during press operation will be absorbed by PLUNGER GUIDE.
- Close structure in crown by using plunger guide not only provide perfect structure strength, reduce gear noise but also avoid intrusion of unexpected parts.







Standard Functions / Accessories Optional Functions / Accessories Portable 2-hand Pushbutton T- Stand O Die Cushion Operation Mode Selection Safety Light Curtain Off / Inching / Safety One Stroke / Continuous Slide Knockout Device Hydraulic Overload Protector(H.O.L.P.) Motorized Grease Pump ■ Overrun Detecter (Brake Monitor) Safety Block with plug Dual-coiled Solenoid Valve Automation Air Circuit 3/8" ■ Motorized Slide Adjusting Device Quick Die Change System ■ Digital Die Height Indicator (unit:0.1mm) O Upper Die Clamps ■ Manual Grease Pump Die Lifters ■ Air Ejector, 3/8", one channel Lower Die Clamps Air Source Receptacle, 3/8", one channel O Die Arms O Anti-vibration Press Mounts High Torque Servo Motor Wet type brake O Die Room Light Touch Panel Bottom Dead Center Accuracy Detector Oil Lubrication for Link Drive Mechanism











CHIN FONG MACHINE INDUSTRIAL CO., LTD.

HEAD OFFICE & FACTORY:

111 Chang Lu Road, Chang Hwa, Taiwan URL://www.chinfong.com.tw E-mail:sales@chinfong.com.tw TEL: +886-4-752-4131

FAX: +886-4-761-1920, 761-2814

TAIPEI OFFICE

TEL: +886-2-2551-3188-9 FAX: +886-2-2541-8097

CHUNGLI OFFICE

TEL: +886-3-402-0204 FAX: +886-3-491-4136

KAOHSIUNG OFFICE

TEL: +886-7-238-5689~90 FAX: +886-7-238-5691

CHIN FONG (CHINA) MACHINE INDUSTRIAL CO., LTD.

(Wu Li Pai) 3 Chin Fong Road, Zhenhai Economic Development Zone, Ningbo, China TEL: +86-574-8630-1222 .

FAX: +86-574-8630-3709 URL://www.chinfong.com.cn

OVERSEAS BRANCHES

U.S.A.: STAMTEC INC.

4160 Hillsboro Highway Manchester, TN 37355, U.S.A. TEL:+1-931-393-5050 FAX:+1-931-393-5060

URL: //www.stamtec.com

THAILAND: CHIN FONG (THAILAND) CO., LTD.
TEL:+66-2-919-6820~2 FAX:+66-2-919-6823
INDONESIA: PT. CHIN FONG INDONESIA
TEL:+62-21-450-7422 FAX:+62-21-451-7335
MALAYSIA: CHIN FONG MACHINE (M) SDN BHD

TEL:+60-3-3290-6827~9 FAX:+60-3-3290-6830