



PRESSES

MECHANICAL • HYDRAULIC • SERVO

Progressive Stamping Presses

MAP Series

315T - 1250T



Safeties conform to:
CE (EN-16092 : 2018)
OSHA 1910.217
CSA-Z142
NR-12

ISO 9001:2015
ISO 14001:2015
OHSAS 18001 :2007

Presses for Progressive Stamping Operations

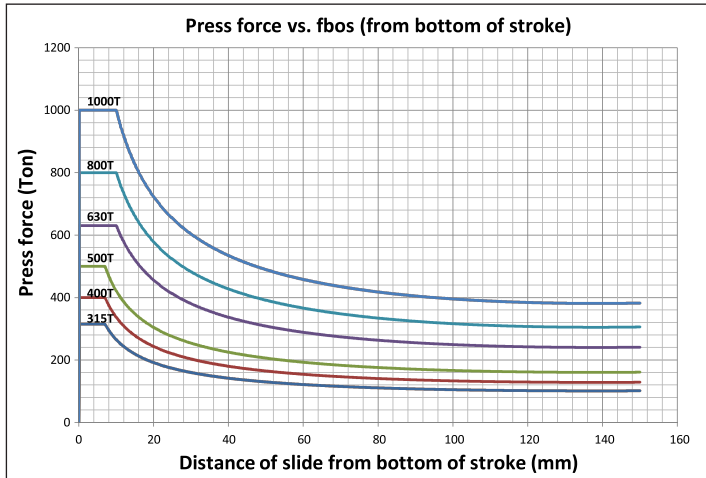
High Rigidity • High Productivity • High Repeatability



MAP series presses are designed for various stamping requirements in progressive die operations. Presses are capable to be integrated with various Automation equipments like Coil Feed Line etc. Further Isgec's experienced team can help you to select a suitable Press to suit your stamping requirements.

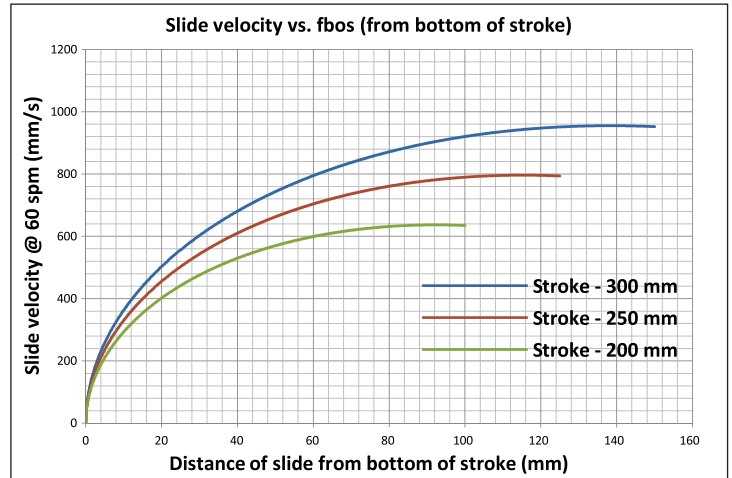
High Work Energy

Force Characteristics (MAP-2E Series)

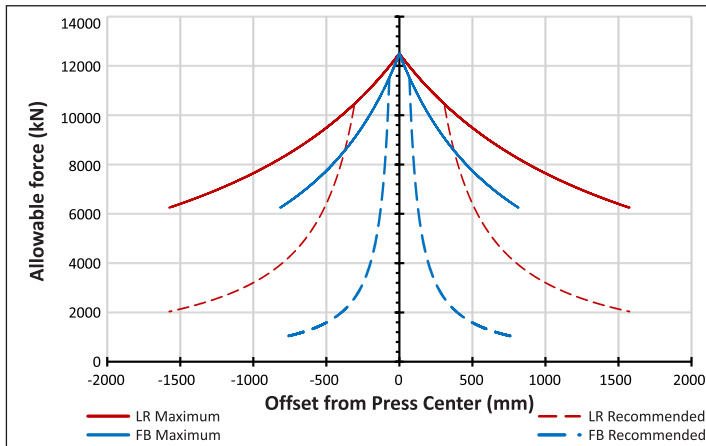


Optimized Working Speed

Velocity Characteristics (MAP-2E Series)



Eccentric Loading Capacity



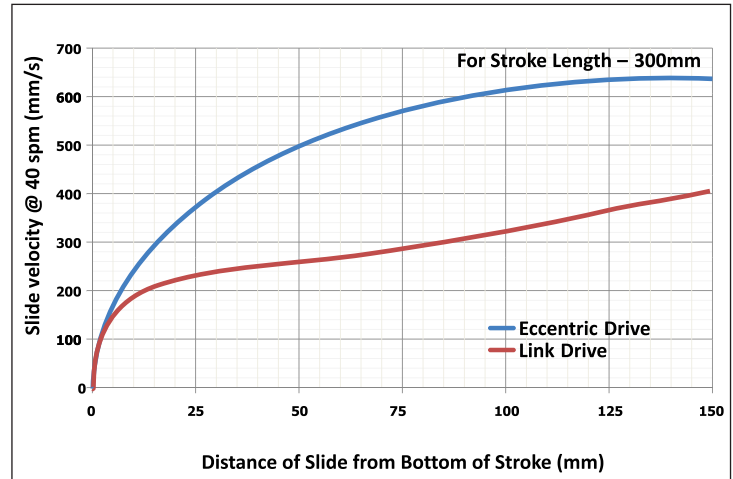
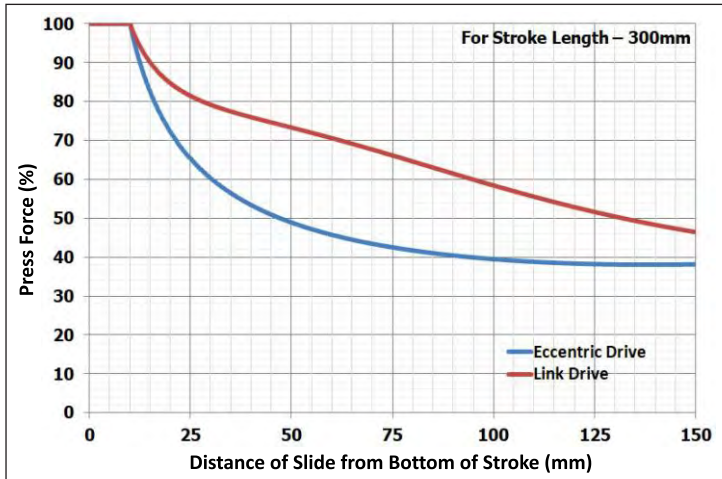
630T & 160T Progressive Die Mechanical Presses supplied to a German MNC for their plant in China

Progressive Stamping Components

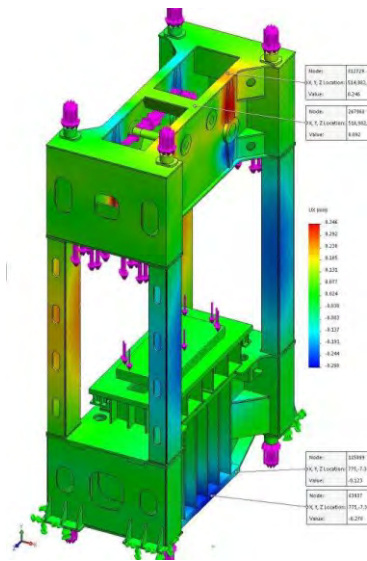


On Cover Page : 630MT Progressive Die Mechanical Press Supplied to a US Based MNC in compliance to CE Safety Norms for their Plant in Poland. Similar Presses supplied for their Plant in Mexico and Brazil.

Efficient Drawing with Link Drive Motion (MAP-2L Series)



- Link Drive mechanism permits to work at low and constant speed during draw zone and at higher speed during idle (return) zone to improve quality of parts with Higher Productivity.
- In draw operation required on First station, link drive is particularly beneficial to reduce rejections & noise besides Enhancing Die Life.
- Isgec design of Link Drive Mechanism enables smooth continuous motion under load with Low Acceleration.



Enhanced Die Life from Maximised Rigidity

Finite Element Analysis (FEA) software used to verify fatigue life of Thermally Stress Relieved Press Structures and to maximized rigidity

Press Frame components are fabricated from tested quality Steel Plates

Modular Frame construction is integrated by Hydraulically pre-stressed Tie Rods

Total Clearance as per JIS Special Class or Better



400 MT Progressive Die Mechanical Press
Supplied to a Major Automotive Tier-1 Manufacturer in India

Quality Components

- | | | | |
|-------------------------------|--------------------------------------|-----------------------|--------------------------------------|
| • Clutch & Brake | : Ortlinghaus, OMPI, Goizper | • Cam Limit Switches: | Balluff, Kamco |
| • Electrical Drives | : Siemens, Allen Bradley, Mitsubishi | • Main Bearings | : SKF, FAG, INA, Timken |
| • Pneumatic Components | : SMC, Festo | • PLC Controls | : Siemens, Allen Bradley, Mitsubishi |
| • Dual Solenoid Safety Valve: | Ortlinghaus, Ross, Herion | • Safety Relays | : Pilz, Safety PLC |
| • Lubrication | : Cenlub, Woerner, Trabon | • Main Motor | : Siemens, ABB, Havells |

* Other makes can also be used on specific demand

Servo Technology

ISGECMAS-PSeries offer Progressive Die Mechanical Presses driven by Servo System (on demand) comes with a regenerative feature thus storing energy during braking and deceleration mode, which is utilized in Acceleration mode resulting in energy efficiency and **Reduced Power Consumption**.



630MT Progressive Die Servo Mechanical Press equipped with Mechanically & Electrically Synchronized Multi-Servo Motor installed with a Spanish MNC for their plant in Nitra, Slovakia

Technical Specifications

Model No.		MASP-2E-315	MASP-2E-400	MASP-2E-630	MASP-2ES-800	MASP-2E-1000	MASP-2E-1250
Maximum Capacity	kN	3150	4000	6300	8000	10000	12500
Suspension Points	no.	2	2	2	2	2	2
Speed(variable)	spm	3-90/3-70	3-90/3-70	3-70	3-70	3-70	3-50
Stroke Length (Fixed)	mm	200/300	200/300	200/250/300	200/250/300	200/250/300	250/300/400
Shut height (SDAU)	mm	600	700	700	800	800	1000
Slide Adjustment (Motorized)	mm	200	250	250	300	300	300
Bolster & Slide Face - LR x FB (Alt1)	mm	2200 x 1300	2500 x 1600	2800 x 1600	3100 x 1600	3100 x 1600	3700 x 1600
Bolster & Slide Face - LR x FB (Alt2)	mm	2500 x 1300	2800 x 1600	3100 x 1600	3400 x 1600	3400 x 1600	4000 x 1600
Bolster & Slide Face - LR x FB (Alt3)	mm	2800 x 1300	3100 x 1600	3400 x 1600	3700 x 1600	3700 x 1600	4500 x 1600
Bolster & Slide Face - LR x FB (Alt4)	mm	3100 x 1300	3400 x 1600	3700 x 1600	4000 x 1600	4000 x 1600	5000 x 1600
Opening in Uprights(Front to Back)	mm	800	1100	1300	1400	1500	1500



Technical Specifications

TWO POINT SUSPENSION ECCENTRIC DRIVE MECHANICAL PRESS-MAP 2E

Model No.		MAP-2E-315	MAP-2E-400	MAP-2E-630	MAP-2E-800	MAP-2E-1000	MAP-2E-1250
Maximum Capacity	kN	3150	4000	6300	8000	10000	12500
Rated Distance	mm	7	7	10	10	10	10
Suspension Points	nos.	2	2	2	2	2	2
Speed(variable)	spm	30-80/30-60	30-80/30-60	30-60	30-60	30-60	25-50
Stroke Length (Fixed)	mm	200/300	200/300	200/250/300	200/250/300	200/250/300	250/300
Shut height (SDAU)	mm	600	700	700	800	800	800
Slide Adjustment (Motorized)	mm	200	250	250	300	300	300
Bolster and Slide Face - LR x FB (Alt1)	mm	2200 x 1300	2500 x 1600	2800 x 1600	3100 x 1600	3100 x 1600	3700 x 1600
Bolster and Slide Face - LR x FB (Alt2)	mm	2500 x 1300	2800 x 1600	3100 x 1600	3400 x 1600	3400 x 1600	4000 x 1600
Bolster and Slide Face - LR x FB (Alt3)	mm	2800 x 1300	3100 x 1600	3400 x 1600	3700 x 1600	3700 x 1600	4500 x 1600
Bolster and Slide Face - LR x FB (Alt4)	mm	3100 x 1300	3400 x 1600	3700 x 1600	4000 x 1600	4000 x 1600	5000 x 1600
Opening in Uprights (Front to Back)	mm	800	1100	1300	1400	1500	1500
Main Motor Power	kW	37	45	75	90	110	110

TWO POINT SUSPENSION LINK DRIVE MECHANICAL PRESS-MAP 2L

Model No.		MAP-2L-315	MAP-2L-400	MAP-2L-630	MAP-2L-800	MAP-2L-1000	MAP-2L-1250
Maximum Capacity	kN	3150	4000	6300	8000	10000	12500
Rated Distance	mm	7	7	10	10	10	10
Suspension Points	nos.	2	2	2	2	2	2
Speed(variable)	spm	30-60	30-60	25-50/20-40	25-50/20-40	25-50/20-40	25-50/20-40
Stroke Length (Fixed)	mm	250/300	250/300	300/400	300/400	300/400	250/300
Shut height (SDAU)	mm	600	700	700	800	800	800
Slide Adjustment (Motorized)	mm	200	250	250	300	300	300
Bolster and Slide Face - LR x FB (Alt1)	mm	2200 x 1300	2500 x 1400	2800 x 1600	3100 x 1600	3100 x 1600	3700 x 1600
Bolster and Slide Face - LR x FB (Alt2)	mm	2500 x 1300	2800 x 1400	3100 x 1600	3400 x 1600	3400 x 1600	4000 x 1600
Bolster and Slide Face - LR x FB (Alt3)	mm	2800 x 1300	3100 x 1400	3400 x 1600	3700 x 1600	3700 x 1600	4500 x 1600
Bolster and Slide Face - LR x FB (Alt4)	mm	3100 x 1300	3400 x 1400	3700 x 1600	4000 x 1600	4000 x 1600	5000 x 1600
Opening in Uprights (Front to Back)	mm	800	1100	1300	1400	1500	1500
Main Motor Power	kW	37	45	75	90	110	110

Machines are manufactured as per SI Units.

Specifications are subject to change without prior notice

Standard Accessories

- Counter Balance Cylinder
- High Response Hydraulic Overload Protection
- Variable Speed through AC Motor with VFD
- Motorized Slide Adjustment
- Centralized Re-circulating Automatic Lubrication System
- Dual Check Safety Electrical Circuit
- Programmable Logic Controller
- User Friendly Touch Screen Interface
- Emergency Stop Buttons
- Programmable Cam Switches
- Die Area light
- Portable Two Hand Operator Stand
- Safety Blocks
- Production Counters (Total, Batch)
- Crank Angle Indicator
- Maintenance Tool Kit
- Maintenance Platform & Ladder
- Main Motor Forward Reverse Facility
- Necessary requirements for Interfacing
- Remote Access Control

Optional Accessories

- Die Clamps for Quick Die Change
- Die Cushion
- Electronic Force Monitoring / Process Monitoring with Signature Analysis
- Anti Vibration Mounts
- Scrap Chute with Interlocked Opening Covers
- Hydraulic Clutch and Brake
- Moving Bolster (Center to Front/Back movement)
- Photoelectric Guards on Front and Rear
- Compliance with CE/OSHA Safety Standards
- Mechanical Safety Guard on Front and Rear
- Automation System
- Automatic Die Change System
- Slide Locking Device
- Temperature Monitoring System
- Moving Bolster with T-Track.
- Die Automation Control
- Isgec reach 4.0 enable Smart Control

Wide Range of Presses

Tandem Press Lines • Transfer Press Lines • Progressive Die Press Lines • Blanking Press Lines • High-Speed Mechanical Presses
Deep Draw Hydraulic Presses • High-Speed Hydraulic Presses • Hot Forming Press Lines • Tryout Mechanical Presses
Die Spotting/Tryout Hydraulic Presses • Refractory Press Solutions • Hot/Cold Forging Presses • Special Application Presses



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Turkey • USA • Vietnam

*Some of the accessories / fitments shown in the reference photograph may not be part of Standard equipment supplied.
Isgec reserves the right to change specifications without prior notice.
Details given in this Brochure are indicative & may change.*