



PRESSES

MECHANICAL • HYDRAULIC • SERVO

Presses for Forging Operations

HFP Series

315T - 12000T



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

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

Economical • Flexible • Reliable Production

High Output • Automated Operation • Low Maintenance



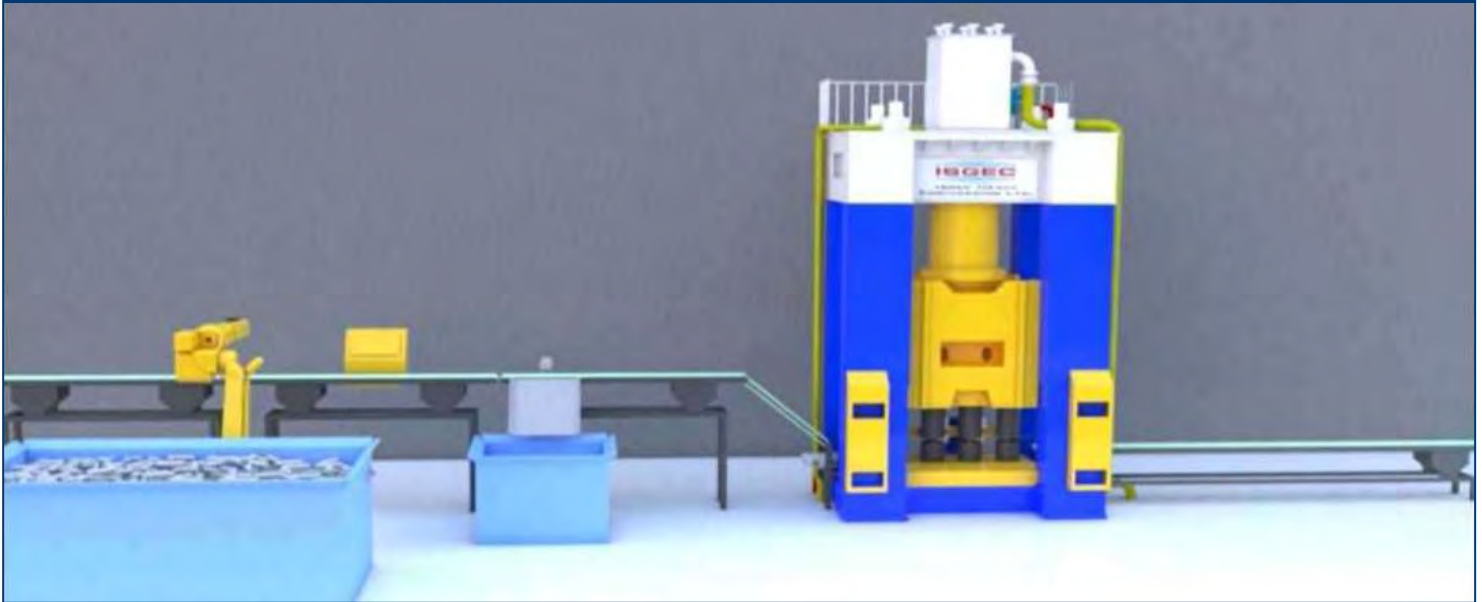
Salient Features

- Rigid Welded Steel Frame Optimised through FEA (Finite Element Analysis) and modular design for minimum tilting values and maximum precision
- High-precision operation due to robust eight point slide guiding, parallelism control motorised height adjustment
- Flexibility for safe working in Manual or Automated Operation for wide range of parts
- Presses equipped with Hydraulic Die Cushion and Motorised height adjustment with option of cutting impact dampers
- PLC with User-Friendly Operator Interface

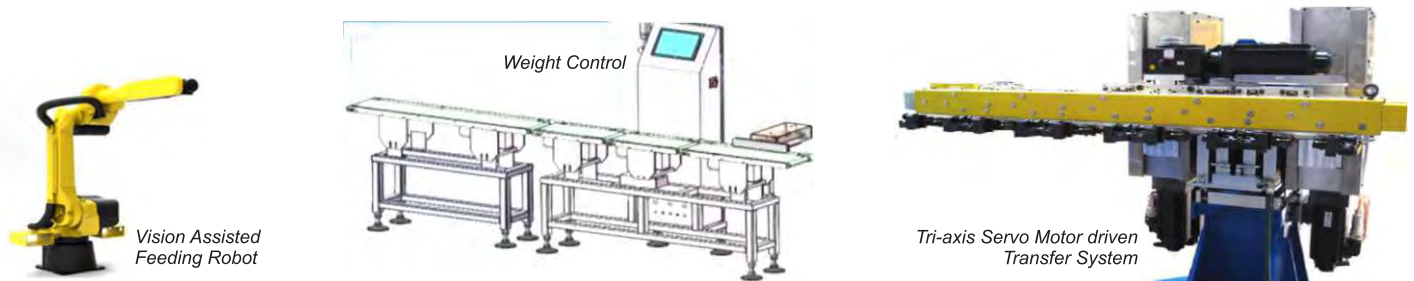
Special Features

- System solution from a single source for maximum possible benefit for the customer
- 3D layout planning right from the outset to increase planning certainty
- Excellent/ Reliable performance due to precise coordination of all components
- Optimised Energy Consumption
- Modular Hydraulics for enhanced efficiency

Complete Turnkey Automation • Billet Feeding System • Transfer System



Robotic Automation



The Robotic System feeds the input billets to the feeding conveyor where the weight of billets is measured. If the weight of the billet meets the input data for billet weight, then it is passed on the feeding side to the chute for forming, else it is rejected in the rejection bin. The billet is picked from the chute and transported between various stations in the press through a mono bar or dual bar transfer system depending upon component weight. The formed component is transported in to bins with the help of transfer system and conveyor at the output side of press.

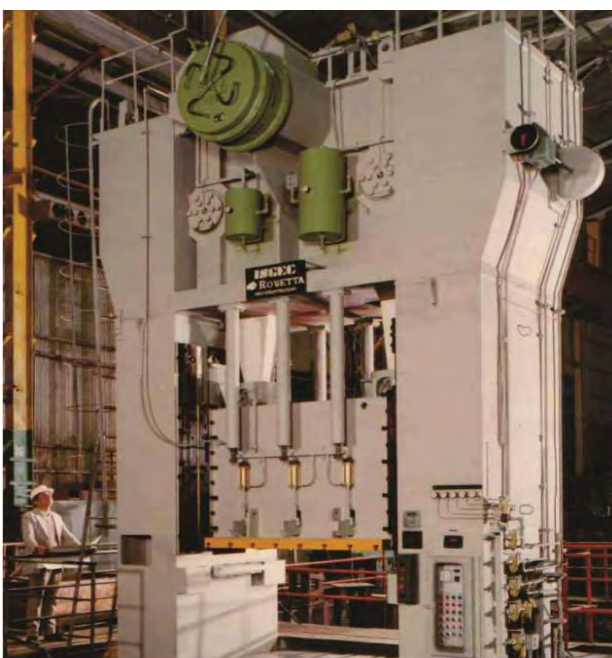


1000 & 630T Hydraulic Presses
supplied to USK Exports, Ghaziabad
for manufacturing of closed die flanges



Commissioned at Tier-1
Automotive - 600T & 200T
Cold Forging Press
applications. Products
include Pistons, Piston rings
and Cylinder liners covering
a wide for Automotive
Applications

1600T Hydraulic Press
supplied to a German MNC
for their Plant in India
for manufacturing of
Cold Forged Transmission
Components used for Auto OEMs



630T Mechanical
Cold Forging Mechanical Press
supplied to
Tier-1 Automotive Manufacturer

630T Trimming Press
supplied to Indian Forging MNC
for their Plant in Pune for
manufacturing of
Trimming Front Axle Beam
for Heavy & Medium Commercial Vehicle



Technical Specifications - Hydraulic Forging Press

Tonnage	Unit	315	500	630	800	1000	1250	1600	2000	2500	3000
Model		HFP-H-315	HFP-H-500	HFP-H-630	HFP-H-800	HFP-H-1000	HFP-H-1250	HFP-H-1600	HFP-H-2000	HFP-H-2500	HFP-H-3000
Pressing Force	kN	3150	5000	6300	8000	10000	12500	15000	20000	25000	30000
Daylight	mm	750	750	1000	1000	1250	1250	1250	1250	1250	1250
Slide Stroke	mm	500	500	500	500	500	500	500	500	500	500
Slide / Bolster Size	mm	800 x 800	1000 x 800	1000 x 1000	1200 x 1000	1400 x 1200	1400 x 1200	1700 x 1300	2100 x 1500	2500 x 1500	2500 x 1500
Ejector Force	kN	100	150	200	240	300	360	480	600	750	900
Ejector Stroke	mm	250	250	250	250	250	250	250	250	250	250

Technical Specifications - Mechanical Forging Press

Tonnage	Tons	400	630	800	1000	1250	1600
Model		HFP-M-400	HFP-M-630	HFP-M-800	HFP-M-1000	HFP-M-1250	HFP-M-1600
Press Capacity	kN	4000	6300	8000	10000	12500	16000
Stroke Length	mm	160	170	180	250	280	300
Stroke Per Minute	spm	110	105	100	95	90	90
Die Height	mm	530	560	540	700	720	720
Adjustment Of Slide	mm	6	6	8	10	10	10
Bolster Area (LR x FB)	mm	600x700	680x780	730x890	920x1050	950x1250	1000x1270
Slide Area (LR x FB)	mm	580x600	650x670	720x780	880x900	900x960	970x1000
Side Opening (W x H)	mm	320x520	360x580	400x600	460x600	460x680	560x720

Standard Accessories

- Oil Filtering & Magnetic Particle Capturing
- HMI including Self Diagnostic
- Mechanical / Hydraulic Ejector
- Safety Photo Sensors on Both Sides of Press
- Double Relief Pressure Valve System
- Safety Blocks
- Preset Counters & Production Counters
- Two Hand Operation Stand
- Main Operator Panel with HMI

Optional Accessories

- Billet Feeding System
- Variable Pressing Speed
- Interfacing with Robotic Transfer System
- Proportional Hydraulic Controls
- Moving Bolster
- Slide Locking at TDC
- Quick Die Change System
- Servo Hydraulic Control
- Servo Hydraulic Control
- Forced Oil Cooling by Refrigerant

Wide Range of Presses

Servo Presses • Transfer Presses • Progressive Presses • High Speed Presses • Hot Stamping & Hot Forming Hydraulic Presses
Standard Straight Sided Mechanical & Hydraulic Presses • Blanking Lines • Tandem Press Lines - Mechanical & Hydraulic
Cold Forging Presses • Tryout & Die Spotting Presses • Gap Frame & Ring Frame Power Presses • Special Purpose Presses



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Malaysia • Mexico • Poland • Russia • South Africa • Spain • Thailand
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.*