



**PRESSES**

MECHANICAL • HYDRAULIC • SERVO

## *Powder Compacting Presses for Tile Manufacturing*

*HPC Series*

630T - 5000T



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

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

**Sealed & Pressurised System for Optimum Working**

**Value for Money - Make in India**



Ceramic tiles are formed by dry pressing. In this method, the free flowing powder containing organic binder or a low percentage of moisture, flows from a hopper into the forming Die. The material is compressed in a steel cavity by steel plungers and is then ejected by the bottom plunger. Automated presses are used with operating forces as high as 7,500 Tons. Isgec manufactures Hydraulic Presses with special features and automation to suit such requirements & applications.

### Salient Features



User Friendly Screens

- Pressurised Sealed Vacuum Hydraulic System – For High Reliability & Continuous Operations even in adverse conditions
- Automated Powder Feeding System with Volumetric Control – for optimum material feeding to reduce wastage
- Efficient Powder Filling & Distribution System – to achieve uniform density after pressing
- Electronic Monitoring System for Press Parallelism – for a uniform thickness after compression
- Programmable Stroke Length for Plunger (Slide) & Ejector.
- User-friendly HMI Screens

### Layout of Powder Compaction Line to manufacture Ceramic Tiles



Power Feeding Arrangement



Mould Filling Box



Disintegrator

**Complete Solution can be provided as per Requirement**

### Technical Specifications

Press Tonnage	Unit	630T	1500T	2000T	3000T	3600T	4000T	5000T
Press Model		HCP630	HCP1500	HCP2000	HCP3000	HCP3600	HCP4000	HCP5000
Press Force	kN	6300	15000	20000	30000	36000	40000	50000
Clearance Between Columns	mm	1300	1750	1850	2250	2250	2500	2500
Useful Width of Plunger	mm	450	700	750	950	1050	1100	1200
Plunger Stroke	mm	200	200	200	200	200	200	200
Min. Distance between Press Plunger & Ejector	mm	350	400	400	450	450	500	500
Max. Distance between Press Plunger & Ejector	mm	550	600	600	650	650	700	700
Ejector Stroke	mm	120	90	90	90	90	90	90
Ejector Power	kN	100	150	150	250	250	280	280

### 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



India



Canada

www.isgec.com



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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.