

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

Feb 2024

PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 86



UCIMU-SISTEMI PER PRODURRE



Need Buyer Credit Finance to buy machine?

We can help you!

please write to us – italianmachinery@indiaitaly.com



MF MECHANICAL PRESSES: INTEGRATED SOLUTIONS TO INCREASE PRODUCTIVITY AND OPERATIONAL FLEXIBILITY

Ficep has been offering its **steel forging and processing solutions** to the global market for nearly one hundred years through a global network articulated in sales offices and agents active worldwide.

Over the years, the directions that characterize the forging industry have evolved, and the company has responded proactively to these developments by always trying to be an active part of the change. In particular, the most recent trend emerging from the forging industry sees a prevailing demand from customers to supply not just single machines, but **complete integrated systems**. The ability to analyze and respond to a complex technical request, providing a **complete solution that integrates multiple technologies**, is particularly appreciated by customers, who find in Ficep a competent, specialized interlocutor ready to take charge of the entire order.

MF series Mechanical Presses

The **mechanical presses MF** series comes in different variants, distinguished mainly by the nominal force (from 2,500 to 50,000 kN).

First of all, Ficep engineers eliminated the traditional double reduction-torque kinematic drive and replaced it with a **compact planetary system with a transverse flywheel shaft**. This provides several design and construction advantages.

On the construction side, there is also an effective modularity of interchange between **single-rod solutions** (typical of upstream and downstream preforming and deburring operations) and **double-rod** (typical of large-table molding) with a transverse flywheel shaft.

The planetary system also allows a flywheel-coupled motor or a direct drive to be used, depending on the type of drive chosen.

The machine is designed with an inverter-driven asynchronous **motor coupled to the flywheel**, which allows the available energy and molding speed to be varied.



Physical and virtual implementations

Adjustment of the height of the mold bed is generally done by a mechanism inside the swing mace keeping the bed fixed.

In the MF, things have been reversed, simplifying an expensive and relatively delicate organ such as the sledgehammer adjustment mechanism by moving the adjustment to the mold bed. The result is a **more robust mechanism that is easier to maintain**.

Also new on the general design front is the MF series, which in full compliance with the philosophy behind **Industry 4.0**, was created with a **digital twin**. The Cad model has been "enriched" with all the features and qualities of the various components that make up the machine in order to make it a true "**virtual prototype**."

The machine can be controlled both in presence through the control panel and remotely by taking advantage of the many sensors present.

Conclusion

With Ficep today, it is therefore possible to obtain from a single supplier a **complete, functional, integrated and efficient solution** - the latter competitive factor being decisive in the automotive market. Process integration in the service of production efficiency is particularly appreciated in this sector, which, being marked by the **production of large numbers**, is always very attentive to the paradigms of the lean manufacturing.

Discover more **FICEP MF Mechanical Presses** on <https://ficepgroup.com/en/products/mf/>

FICEP COMPANY PROFILE

FICEP is the world's leading machine tool manufacturer for the fabrication of structural steel and forging industry, with an experience of over 9 decades. Our extensive and innovative product range and its aggressive penetration of the world market has been achieved by the creation of many subsidiaries all over the world.

Located next to the Alps in Varese, Italy, we have specialized production facilities. The main location in Gazzada Schianno, which comprises over 100.000 sqm, also contains Headquarters, R&D, Academy of Technology, Showroom and the main after sales service departments.

Our mission is to satisfy the demand of machinery and systems for the high quality processing of metal profiles in the most profitable markets on a global basis, promoting the Ficep brand and trademark with prestige. Our wide range of machinery fully satisfies always more demanding requests and cover all needs in the structural steel and fabrication industry.

Find out more on <https://ficepgroup.com/en/>



The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

Contact information of Piattaforma India desk:

Mr. Nilesh Joshi
Manager - Italian Machinery Desk in India



C/o The Indo Italian Chamber of Commerce and Industry
11th Floor, Tower - A, Urmi Estate 95, Ganpatrao Kadam Marg,
Lower Parel (W), Mumbai 400013, Maharashtra
P: +91 22 67728186
Mob : +91 7666795385
Fax. : +91 22 67728191
Email : italianmachinery@indiaitaly.com