SPLINE ROLLING MACHINE with Racks







THE MACHINE

- The cold-forming method requires an extremely rigid and strong machine.
- The new Fimat rolling machine has been designed and built in order to meet any demand of strength and solidity needed to obtain high-quality results.
- Special attention has been paid to the machine versatility and flexibility, thanks to Fimat wide experience in this sector.







INSTALLATIONS

- Our rolling machine features a self-contained hydraulic installation with an adequate rating for the control of the slides. The tool feeding speed in the lead-in stage is adjustable, in order to allow the work piece rotation as well as a good initial deformation – a premise for the realization of high-precision splines.
- The machine is also equipped with automated lubrication and coolant installations, on which we can provide cutting or emulsifying oil, along with Accu-Lube system.
- The machine control is carried out by Semens S7 300 PLC, housed in a cabinet secured to the machine. The control panel mounted on a swiveling support features an operator push-button panel for a simple and user-friendly man/machine interaction.

NC-CONTROLLED AXES

- The external and the internal tailstock can both be carried out with controlled axes operated by recirculating balls screws and run by a Brushless motor.
- Such machine version is particularly suitable for frequent changes of processing where a quick machine set-up is needed.



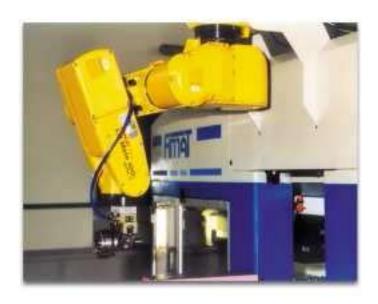


QUICK RACK LOCKING

- Special attention has been paid to rapidity in the change of processing and quick machine set-up.
- On request the machine can be equipped with automatic hydro-driven quick lock rack holders.
- The quick rack change operation with the patented Fimat system does not require any wrench and is carried out in 10 minutes, thus allowing an outstanding productive efficiency.

SPECIAL SOLUTIONS

- Our base machine is designed to allow the use of several special solutions, in compliance with the various production requirements of the customer.
- The external tailstock support can be assembled both on the upper and on the lower part of the machine, in accordance with the work piece loading/unloading specifications.
- Special working cycles can be planned and customized, according to the particular demands of our clients.
- Depending on machine features, it is possible to perform multiple rolling operations with just one work piece load by contemplating:
 - Sde by side racks.
 - Intermediate stop of the working stroke.
 - Work piece rotation and opposite side processing.
 - Axial shifting of the work piece.





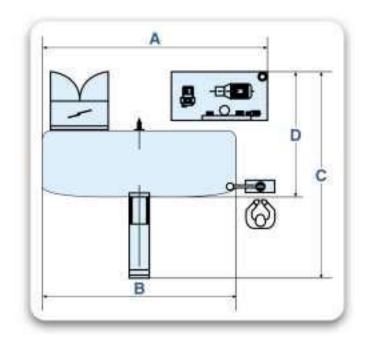


AUTOM ATION

- Our rolling machine is extremely quick and in order to secure a high productivity rate it is advisable to equip the machine with automated feeding units.
- The automation possibilities are manifold and they vary according to the features of the part to be processed.
- Among the possible solutions there is also an anthropoid robot integrated with the machine.

FIMAT ROLLING MACHINES

| FIMAT ROLLING MACHINES | | | |
|---------------------------|---|-----------------|------------------------|
| FEATURES | | <i>R</i> L 1350 | RL 2100 |
| Total Length | Α | 3.860 mm. | 4.700 mm. |
| Machine Length | В | 3.160 mm. | 4.660 mm. |
| Width w/ Tailstock | С | 4.085 mm. | 4.200 mm. |
| Width w/out Tailstock | D | 2.685 mm. | 2.685 mm. |
| Height | | 2.050 mm. | 2.050 mm. |
| Weight (w/out Automation) | | 14.000 kg. | 19.800 kg. |
| Total Power | | 30 Kw | 45 Kw |
| Machine Opening | | 6" / 8" | 6" / 8" |
| Max. Side Stroke | | 1.350 mm. | 2.100 mm. |
| Max. Rack Length | | 1.220 mm. | 1.500 mm. + 330 mm. |
| Max. Work Piece Diameter | | 60 mm. | 60 mm. |
| Max. Profile Length | | 125 mm. | 125 mm. |
| Standard Module Range | | 0,3÷ 1,50 mm. | 0,3÷ 1,50 mm. |







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