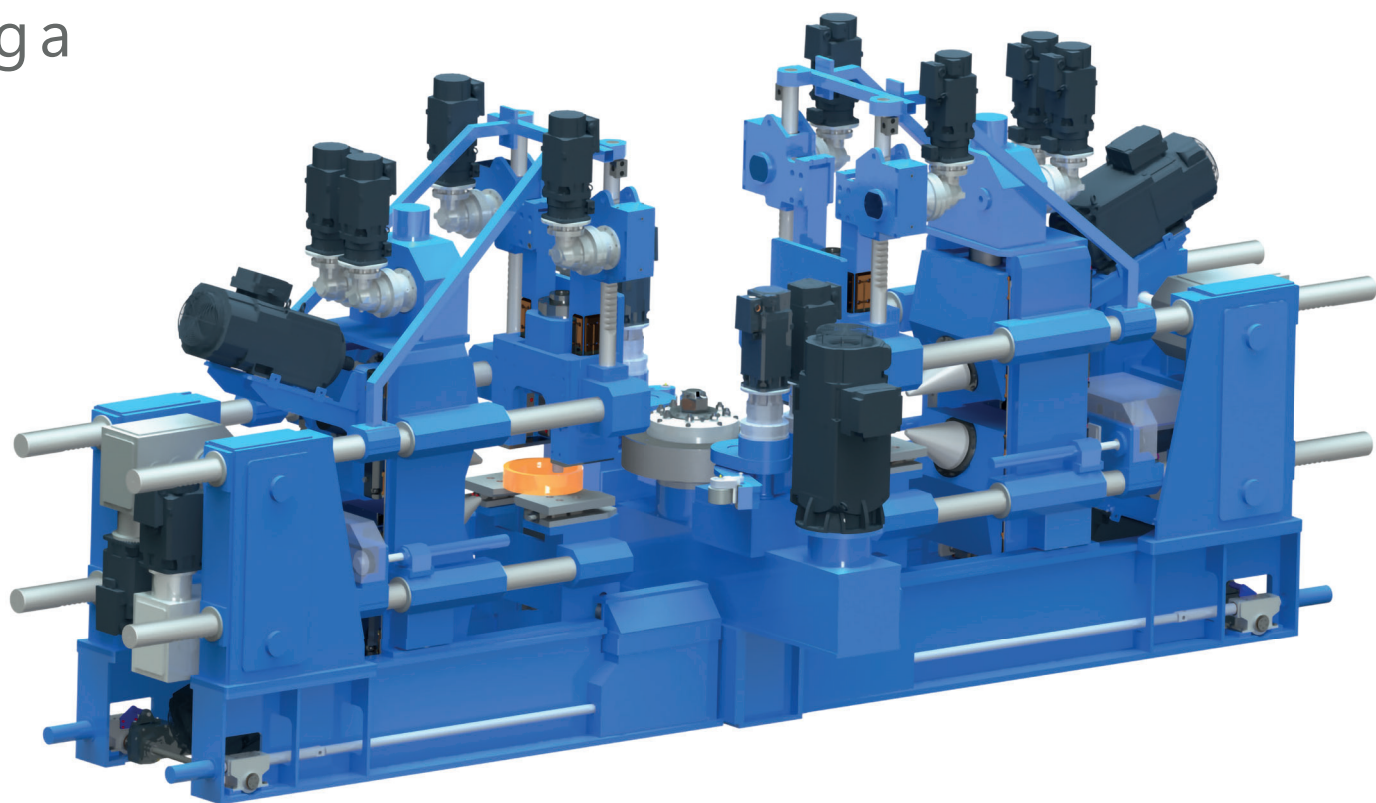




## Ring Rolling Mills (2 stations)

Omega



**The Electromechanical Motion Force**



## Story:

Historically double station radial-axial hydraulic ring mills as well as multi-mandrel ringmills for closed-tool ring rolling have been built, these two machine types both have a high productivity, but they have two different rolling technologies.

Based on its experience with multimandrel and radial-axial ring mills, ECAI has designed a new machine bearing the main advantages of these two machine types.

ECAI is constantly upgrading its design to always guarantee an innovative product.

## Description :

The Omega® Ring Mill is suitable for the production of rings by radial-axial rolling as well as closed tools rolling.

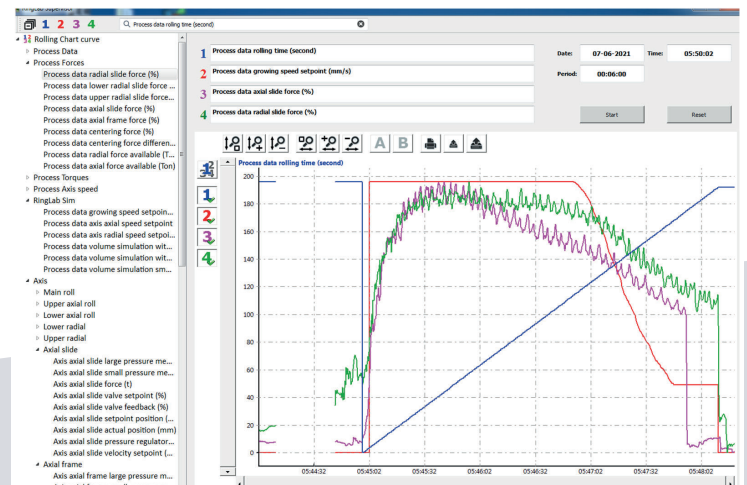
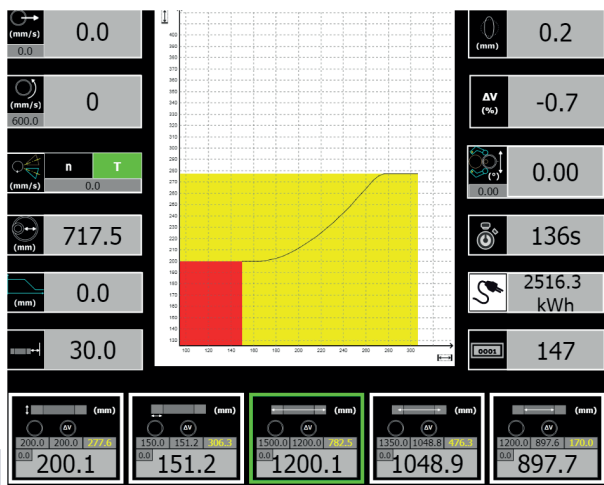
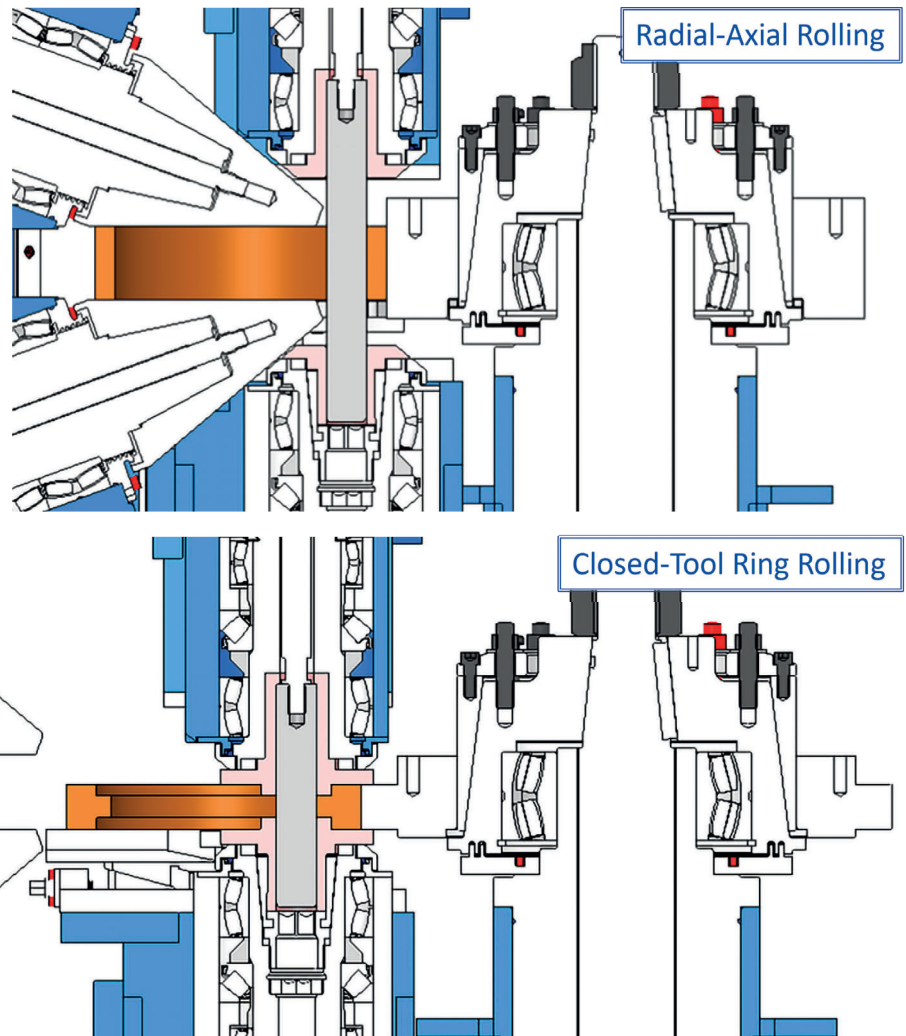
This very compact machine has been designed to be installed on a very simple and reduced foundation.

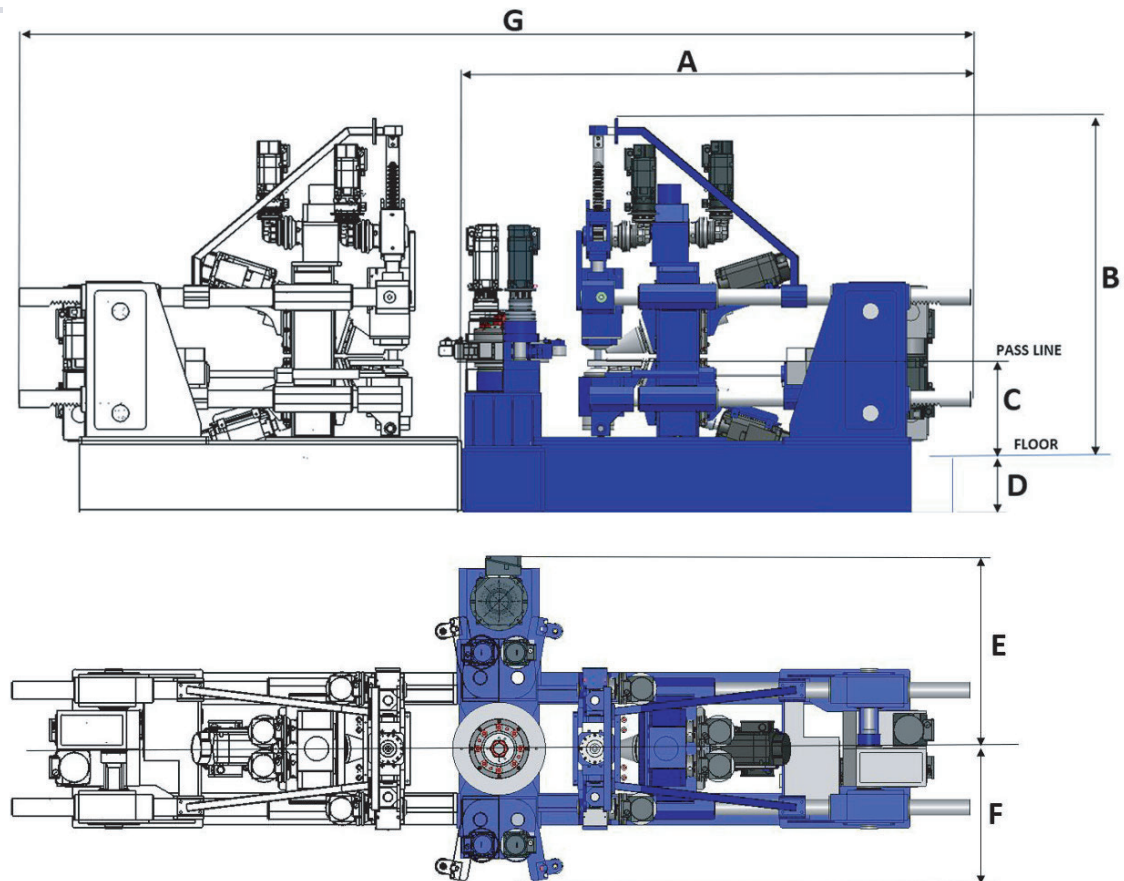
It can be delivered both with one or two stations, in the last case we will have a very high productivity, as while rolling on one station the other station is being unloaded and loaded.

The Omega® is suitable to be integrated in a fully automated line for high productivity requirements.

As for the other machines in our range the radial and axial stands and the centring arms are moved by electromechanical drives, unlike traditional rolling mills that use hydraulic cylinders, eliminating also all maintenance and environmental problems associated with hydraulics.

The Omega® ring mills are cold and hot tested in our workshop before delivery to ensure short installation and commissioning times at the Customer's workshop and a quick start of production.





### Control System:

Our RingLab® control system is highly intuitive, using graphic symbols instead of text.

In most cases, only the dimensions of the blank and the final part need to be entered by the operator, with the system automatically calculating all the relevant parameters.

RingLab® is totally open to the outside world via files in CSV (Excel) format or its open SQL database, which can have exchanges with a higher level.

Thanks to RingLab® Supervisor, it is possible to track the recording of all rolling data (over 400 parameters). This can be done directly on the machine or on a computer connected to the machine.

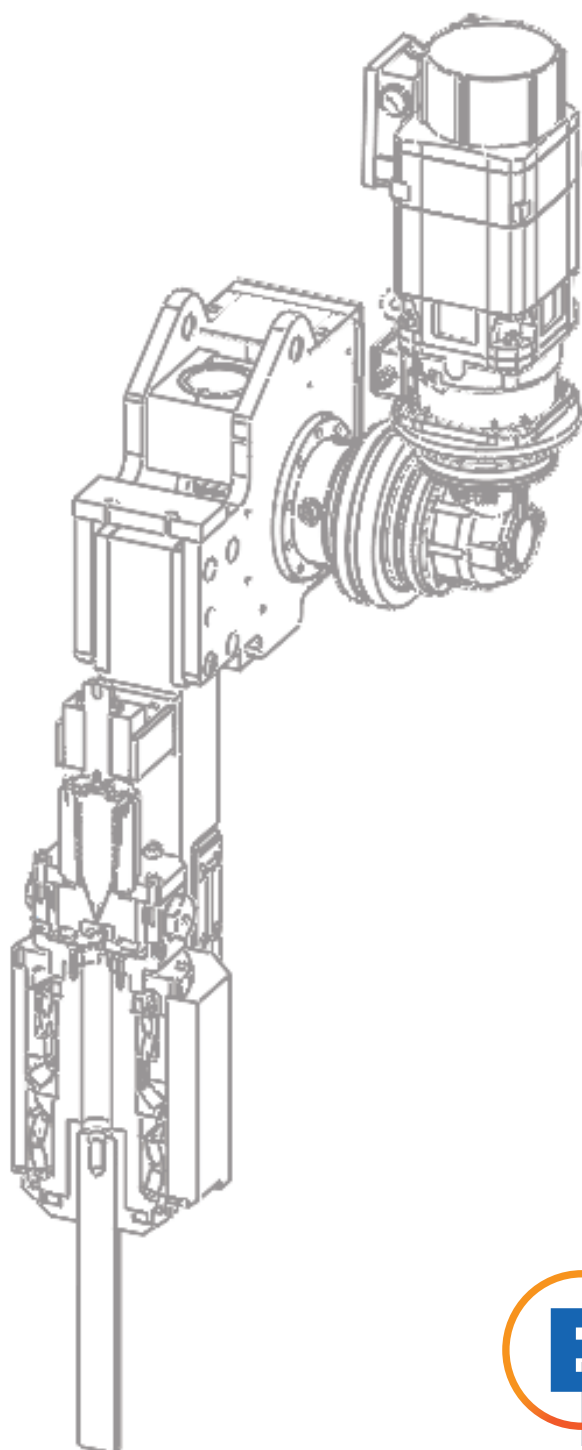
Omega	20	30	40
Ring Ø (mm)	120 / 500	140 / 750	150 / 1.000
Ring Height (mm)	20 / 120	20 / 190	20 / 220
Radial Force (t)	20	30	40
Axial Force (t)	20	30	40
Nominal Ø of the Mandrel (mm)	55	70	80
Ø of the Main Roll (mm)	630 / 720	680 / 780	770 / 900
A (mm)	4.450	5.000	5.600
B (mm)	2.900	3.100	3.250
C (mm)	700	750	800
D (mm)	500	600	700
E (mm)	1.500	1.600	1.750
F (mm)	1.050	1.100	1.250
G (mm)	8.000	9.000	10.000

### Key Benefits:

- Compact machine
- High production capacity
- Available with 1 or 2 stations
- Rolling in closed tools or radial-axial rolling

***Our machines are built to high quality standards using components manufactured exclusively in Europe.***

***All our machines benefit from a remote connection to ensure rapid assistance to our customers.***



**800 Boulevard Jean Rostand  
42 650 Saint Jean Bonnefonds  
France  
Phone: +33 4 77 53 96 00  
[rolling@ecai.fr](mailto:rolling@ecai.fr)  
[www.ecai.fr](http://www.ecai.fr)**