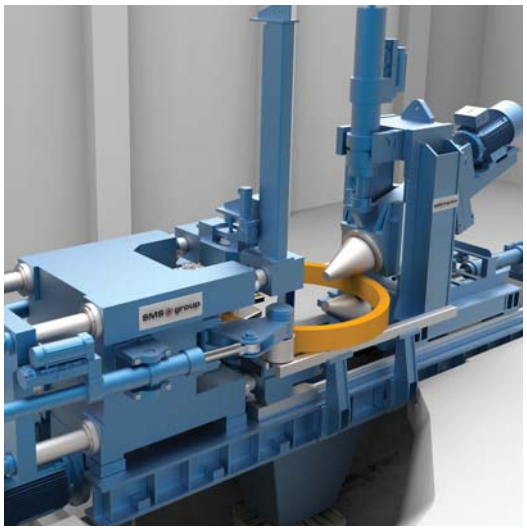
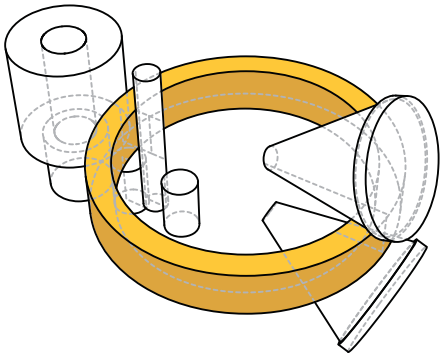
FORGIA RAPIDA

ECOMPACT@

an innovative drive solution ring rolling machine

FORGIA RAPIDA INSTALL A BRAND NEW SMS RING ROLLER



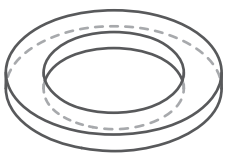


THE ECOMPACT@ RING ROLLING MACHINE type RAW 100/80 features electro-hydraulic direct drives that are mounted on the roll shafts, which represents an innovative drive solution for this type of application.

In this machine, the otherwise common central hydraulic system has been eliminated. Consequently, no associated machine and foundation pipework needs to be installed.

This provides real economic benefits, reduces energy consumption and eliminates the risk of environmental pollution by oil leakage.

Forgia Rapida can expand its product range, offering small/medium series of rings, in several steel grades and size, **from 300 to 2.000 mm in outer diameter, from 40 to 450 mm in height and up to 1.200 kg in weight.**



Rings	Ø ext max (mm)	max height (mm)	max weight (kg)
Carbon Steel Alloy Steel Stainless Steel	2.000	450	1.200
Inconel	1.200	120	100

FORGIA RAPIDA

RING ROLLING

an effective and specific metal forming process

FORMING PROCESS FOR PRODUCING SEAMLESS RINGS

The metal is rolled between two rolls, which move toward each other to form a continuously reducing gap.
The process begins with a hollow circular preform that has been upset and pierced using hydraulic press.
Then, the preform is placed over the idler or mandrel roll, which is forced toward the drive roll.
The drive roll rotates continuously, reducing the wall thickness and increasing the diameter.
For larger rings, the mill also have radial oriented or "pinch" rolls, which control the height of the ring.
They also help to maintain “squareness” and alignment with virtually no axial growth. In some cases, such rolls can reduce the height as much as required.

Ring rolling produces seamless rings with forged properties, which results in optimum mechanical properties, and predictable and efficient machinability.

FORGIA RAPIDA

Forgia Rapida S.r.l. Via Brini, 32 - 40128 Bologna - Italy - Phone +39 051 328484 - Fax +39 051 328312 - www.forgiarapida.com