



size does matter

PRO FORGE RF100 - A SUPERLATIVE TOOL!



WHAT CAN OUR CUSTOMERS EXPECT?

An advantage in QUALITY:

This investment is considerably improving and ensuring process security and reproducibility, guaranteeing a stable high quality of tool steels and special steels.

An advantage in DIMENSION:

With the largest and most modern plant of the world we will now be able to provide our customers with dimensions which have been considered to be "not producible" on a long forging machine so far.

An advantage in APPLICATIONS:

We achieve the highest quality constancy for materials used in the aircraft industry, in power engineering and for chemical and oil field applications through this high degree of automation.

An advantage in DELIVERY TIME:

New production possibilities at logistically optimized production routes mean shorter delivery times.

www.boehler-edelstahl.com



The new forging shop at Böhler Edelstahl in Kapfenberg is completed. With this production line Böhler is venturing into a new dimension of forged steel bars. From now on Böhler will be able to manufacture steel bars of up to approx. 550mm in diameter, with a maximum length of 15m and a piece weight of 8t with the new rotary forging machine, the largest of its kind worldwide. The new start dimension of 940 mm means an doubling of the dimensional range to date. The GFM rotary forging machine RF100 with a maximum forging force of 2,000t (!) and two high-performance manipulators at both ends for precisely moving bars or ingots during the forging process is at the core of our forging shop.

Heat is vital

We have also invested in ground-breaking furnaces. Two separate furnace lines, therefrom one for alloys which are hard to deform, precisely control the temperature variation required in each production. Short transfer times which can thus be achieved will be the decisive advantage in quality. The forging parts are heated to forging temperature in a high-performance rotary hearth furnace, in two new bogie hearth furnaces and in four smaller batch furnaces. The furnaces are loaded by cranes and robots. Cutting, marking and cooling devices are fully automated. Subsequent heat treatment operations will be performed directly in the same shop. There is no need to change the plant. In order to implement all these features, a highly automated heat treatment unit (furnaces, charging equipment, cooling systems) is erected at the end of the new line.

We work actively for the environment

The entire plant is state-of-the-art regarding environmental technology as well. The cooling water needed (machine cooling, water in cooling basins), for example, is led in a closed cycle, or smoke which is produced during the forging process is suctioned off and filtered. A heat recovery unit re-feeds

waste heat from the forging furnaces in our heat distribution system. All devices and machines are housed in a new shop of about 235m x 60m (at the widest position), thus covering more or less 11,000m² of floor space.

From now on Böhler will be able to manufacture steel bars of up to approx. 550mm in diameter, with a maximum length of 15m and a piece weight of 8t at its forging plant, the largest of its kind worldwide.

We adhere to our customer requirements

Increasing our forging and heat treatment capacity also necessitates an adaptation of our finishing capacities. A new straightening press, peeling machine, grinding machine and cold cutting machine will be housed in the

already existing shop 2 in the finishing department. A combined inside and surface test stand will be installed in a newly aligned shop. Our products will be temporarily and systematically stored in an automated high rack warehouse. In order to be able to benefit from all the new conveniences of the forging department for open die products as well, our capacity in the machine shop was extended by a new large turning lathe and a vertical turning lathe.

