

Innovative extrutec solutions



Front view of water quenching section during operation.



extrutec ageing oven system in overhead arrangement.

Mainly involved in the production of industrial plant systems for aluminium extrusion manufacturers, extrutec Ltd was founded by Managing Partner Uwe Günter in 2005. The company is based at the Innovation and Technology Centre (RIZ) in Radolfzell, situated on the German shoreline of Lake Constance. The path to success continued with the appointment of Joachim Sokoll as Technical Director in 2006. Today extrutec is a very successful company in the field of gas-fired rapid heating systems with a wide range of technical variations. The key elements of the product portfolio are special designs in the area of general furnace construction, profile cooling elements, and tool and age-hardening furnaces.

Cooling and ageing

The profile cooling equipment offer is realised as a combination of water- and air cooling. Various systems are available, reaching the following heat transfer figures:

- Waterquench (Full jet nozzles)
α min. 7,000 W/m²K
- Intensive air cooling (vAir = 50 m/s)
α up to 200 W/m²K
- Intensive air cooling with water vapour (vAir = 50 m/s)
α up to 400 W/m²K

The extrutec system is the shortest one on the market with a guaranteed cooling rate. The self-adjusting cooling bonnet follows the inclination of the runout table, with always the same distance



between nozzles and profile surface, so there are absolutely identical cooling parameters over the whole cooling line.

The ageing oven system in overhead arrangement offers space saving, with charging and discharging in full automatic mode via service shuttle and integrated scissors table from the bottom. During charging and discharging from the bottom the heat stays inside the heating chamber. The similarly compact floor arrangements operate via connection to an automatic floor transportation system. In both cases, heating is realised with double cross air flow for quick but even and gentle heating, with tight ($\pm 3^{\circ}\text{C}$) temperature tolerances.

www.extrutec-gmbh.de

Granco Clark leading in extrusion

Offering a full range of equipment, including some of the world's largest aluminium extrusion systems, Granco Clark produces all required equipment before and after the press to heat, cool, pull, stretch, cut, stack, age, and store aluminium extrusions.

Designed for control

A leader in the optimisation of extrusion technologies/processes, their automated equipment is designed, fully assembled, and shop tested to the specific requirements of your extrusion process to deliver exceptional efficiency, productivity, and longevity. Granco Clark offers a one stop shop from engineering, installing, commissioning and training, to providing service and spare parts. With extensive industry experience, they tailor handling equipment to reach your goals. For example, their pull-through, high-pressure spray quench system allows the head of the flying-cut double puller to pull the extrusion through, virtually eliminating first-billet scrap.

The superior automation of Granco Clark handling equipment, quenching/cooling equipment, pullers, stretchers, profile-handling equipment, saw and gauge system, and profile stacking systems will help you achieve maximum throughput, improve the overall surface quality of your product, and reduce labour costs, scrap, physical effort, and downtime. Their equipment is built to last and built to be serviced or repaired easily. SCS Extrude is Granco Clark's exclusive system control software that orchestrates the extrusion process, enabling communication among individual machines and providing the office with real-time information. It executes production schedules, automatically loading equipment parameters and recipes. It also tracks and diagnoses faults, then logs production and downtime data in a Microsoft Windows environment.

www.grancoclark.com



Granco Clark's pull-through quench pulls the extrusion through the operating quench environment without first-billet scrap.

Amazing Extrusion-Equipment

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A-6820 Frastanz
T +43 5522 51710-0
www.reisch.at

REISCH
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TAILOR-MADE INNOVATIONS FOR CASTINGS AND FORGINGS



OTTO JUNKER GMBH
Jaegerhausstr. 22
52152 Simmerath
Germany

Phone: +49 2473 601-0 | Fax: +49 2473 601-600
E-Mail: info@otto-junker.de

WWW.OTTO-JUNKER.DE

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01st December 2016
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WE UNDERSTAND METALS



We stand for Extrusion Technology

- Log and Billet Storage and Transport Equipment
- Log Preheating Magazine (Horizontal-/ Vertical Design)
- Log and Billet Cleaning Devices
- Gas fired Billet Heaters
- Gas-/Induction Heater Combination (Inline Solution)
- Hot Log Shears
- Hot Log Saws
- Die Heaters
- Ageing Ovens
- Profile Cooling Systems (Air/Water)

extrutec GmbH

Fritz-Reichle-Ring 2
D-78315 Radolfzell

Tel.: +49 (7732) 9391390
Fax.: +49 (7732) 9391399

E-Mail: info@extrutec-gmbh.de
Web: www.extrutec-gmbh.de