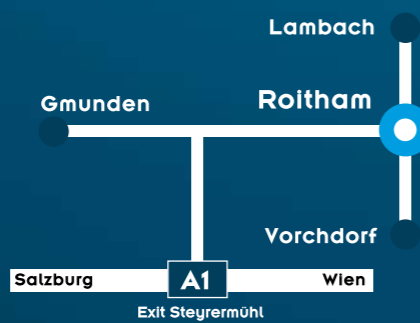




3S  
 SCREWS + SPINDLES + SPIRALS  
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**SCREWS  
 SPINDLES  
 SPIRALS**



## OUR COMPANY

3S, established in 1991, is a manufacturing company focusing on the production of core parts for the extrusion sector (screws, barrels, feed sections, etc.).

Our company employs approximately 50 people working in two shifts on a production area of 3500 m<sup>2</sup>.

Our specialty is in manufacturing highly wear-resistant extruder screw units as necessary in plastics processing by admixing various additives in order to achieve a long service life.

If you need advice or help on how to determine your wear parameters, please do not hesitate to contact us.

Do not keep your machines running until they stop working but have your process unit checked for energy input in relation to production availability once a year.

This is the only economical way to operate a machine.



## SERVICES

### ) Quality Management

Precise measuring in accordance with ISO 9002 is our customer's guarantee of best quality in a reproduceable way.

### ) Special Requirements

3S manufactures all type of screws, with any required war protection.

### ) Refurbishing and Repair

Wear of screws and barrels as resulting from various additives such as glass fibres, colouring pigments, fillers and flameproofing agents and as occurring in the ceramic industry is unavoidable.

A lower output rate, in conjunction with poor quality, will substantially deteriorate the performance of these parts.

### ) CAD-Service

As an additional service, we prepare drawings of screws and barrels, for example during repair or, at short notice, on the customer's premises.

### ) Machine Technology

Modern screw geometries can only be manufactured in a precise manner, by using most advanced 3 D CAD-CAM technologies.

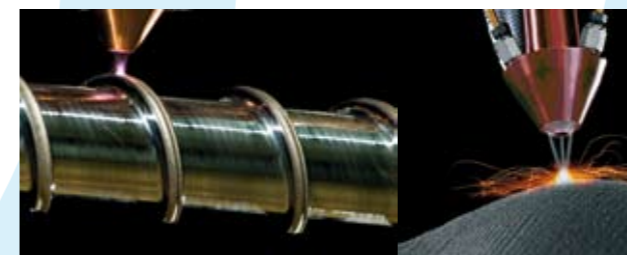
## ) SINGLE SCREWS

We manufacture screws for extrusion and injection moulding with lengths of up to 6500 mm and a diameter of 500 mm (single or multi-part).

We offer a wide range of designs for all extrusion applications.

Nitrided screws, screws with wear resistant armouring with ribs, with different armouring materials tailored to the specific barrel material. Screws for food processing, chemical engineering, ceramic extrusion, rubber extrusion and last but not least, screws made of special materials for highly specialised applications.

Our wide range of product lines includes screw accessories such as mixing and shearing devices, screw tips or non-return valves.



## ) TWIN SCREWS

Twin screws (co-rotating and counter-rotating) are of cylindrical or conical design.

Mo-coated screws or screws armoured on our CNC plasma welding machine provide alternatives to nitrided screws with regard to protection against wear.

## ) BARRELS

### Barrels for single screw extruders

Available as nitrided or centrifugally cast bimetallic types, custom-designed, inside grooved or smooth, with various cooling systems.

### Barrels for twin screw extruders

Conical and parallel twin screw barrels as well as barrel sections for compounding machines.

## ) FEED SECTIONS

Extruder feed sections made of various materials with integrated cooling system or rolled-in cooling tubes.

The feed bores are smooth or designed with straight or spiral grooves.