



EXTRUDER-MAS-45

- Twin-screw extruder with conical, co-rotating screws, modified for processing magnesium (Thixotrusion)
- A specialized dosing appliance enables the addition of particles to the processed alloys

OUR SERVICES

- Continuous fabrication of tailor made geometries
- Incorporation and forced wetting of particles
- Production of magnesium precursor material

TECHNICAL DATA

 Manufacturer: MAS Maschinen- und Anlagebau Schulz GmbH

Main drive: 37 kW
Max. rpm: 129 rpm
Max. temperature: 550 °C
Output: 100 - 250 kg/h

• Geometries:

circular: Ø 20 - 30 - 44 mm

tube: Ø 30 x 5 mm

rectangular profile: 40 x 15 mm

Alexander Großalber AIT Scientist at LKR:

"Magnesium chips are filled into the dosing appliance and subsequently fed into the thixotrusion cylinder. The chips are conveyed by the screws and converted into a semi-solid state by the effect of temperature. During



processing, a desirable globulitic grain structure in the material is achieved by the apparent high shear rates. The material is then shaped into the desired geometry by pressing it through a die at the foremost end of the extruder."



AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH

LKR Leichtmetallkompetenzzentrum Ranshofen GmbH Alexander Großalber alexander.grossalber@ait.ac.at Tel +43(0) 50550 6949