



Contract whirling and milling



Spare parts for
twin-screw
extruders

Contract
manufacturing

Whirling technology

burgsmüller – Company profile

Founded in 1876, Burgsmüller's product portfolio today extends from wear parts for plastics processing machines up to complete machine tools. Within the frame of our extensive contract manufacturing activities we produce components of helical geometry to your specifications. For more than fifty years, we have also built auxiliary groups and machine tool components.

Having developed the whirling process – which is manifested by numerous patents – and decisively contributed to the development of the BTA method, Burgsmüller is in a position to provide highly efficient solutions for metal-cutting applications.

Many years of experience and a profound knowledge in the manufacture of screws, barrels, spindles and other components enable us to produce the spare parts required for your extruders and compounding lines with outstanding cost-effectiveness and short delivery deadlines. In addition, we also manufacture parts on the basis of samples, manufacturer-specific or type-specific data and drawings. A wide range of special and functional materials provides tailored solutions for specific wear and corrosion requirements.



Burgmüller whirling and milling systems are tailored for the following supreme quality products:

Machine tools	Extrusion industry	Pumps for plastics and rubber	Various
<p>Leading screws Feed screws Nuts Gear screws Press drive shafts and nuts</p>	<p>Extrusion screws and screw elements for single-screw or multiple-screw extruders Screws for planetary extruders and barrels with internal toothing Conveying screws for: Plastics powder and pellets Chemicals Food, e.g. conveying screws for chocolate</p>	<p>Eccentric screws/rotors Screw rods Valve spindles</p>	<p>Textile machine spindles (reversing spindles) Toothed rollers for oil mills Oil grooves for drag bearings Valve balls PVC standpipe threads Scaffolding threads Stone drills Wood drills Cross thread spindles</p>

Material selection for external whirling

- C45 (1.0503)
- 42CroMoS4V (1.7227)
- X12CrNiS18 8 (1.4305)
- X10CrNiMoTi18 10 (1.4571)
- Special materials (Inconel625)

Material selection for internal whirling

- Bronze/red bronze (e.g. GBz12, Rg7)
- Multi-alloy bronze (e.g. CuAl10Ni)
- Gray cast iron (e.g. GG25, GGG40)
- Steel (e.g. St52, C45, 42CrMo4)
- Special steels (e.g. 1.4301, 1.4571)



Other materials, non-standard thread sizes and multiple-start thread pitches are available upon request.

Contract manufacturing



Thanks to our state-of-the-art machinery, we are in a position to carry out the most diverse production processes from CNC turning up to grinding processes.

Our contract manufacturing services comprise the following operations:

- Milling/drilling/whirling on machining centres
- Grinding

Repair service



- Worn out screw and nut?
- Damage caused by collision or rupture?
- No drawing or detailed information on the thread available?

No problem!

Burgsmüller manufactures high-precision leading screws and leading screw nuts for any machine type, with inch system based threads and non-standard dimensions.

If there is no drawing available, just send us the defective spindle with nut. We will measure with highest precision the damaged or even considerably worn elements and manufacture the parts required for replacement.



High cost-effectiveness combined with outstanding precision: whirling and milling processes



The list below gives you an idea of the wide variety of advantages and benefits you can expect from Burgsmüller whirling technology:

- Over 50 years of experience in external and internal contour whirling
- Machining of symmetric and asymmetric curve and rotational surfaces
- Surface finish achieved similar to ground surface quality
- Cost-effective machining thanks to extremely short processing times and considerable material savings
- Flexible application for the most diverse materials and thread sizes in particular with small piece numbers
- Spindles with trapezoidal, metric, saw or special thread design within a diameter range of 16 to 300 mm and a length of up to 7000 mm, ready for installation
- Nuts with trapezoidal, metric, saw or special thread design within a diameter range of 16 to 600 mm and a length of up to 1500 mm
- Conveying and metering screws, cross-groove shafts and screw elements

In addition, we carry out all additional machining tasks such as CNC turning, CNC milling and grinding, etc.



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