

PROGRAMME PRODUCTS AND SOLUTIONS

✓ PRODUCT EXAMPLES

2-component rollers
Pressure rollers
Drive rollers
Printing rollers
Retraction rollers
Conveyor shafts
Foamed rollers

Rubberised shafts
Plastic PU rollers
Paper feed rollers
Transport rollers
Pinch rollers
Deviating shafts
Feed rollers

OUR SERVICES COVER:

- ✓ Product development and the manufacture of technical plastic components
- ✓ Prototype components
- ✓ Tool construction
- ✓ Injection moulded parts
- ✓ Extruded and ground cylinders, shafts and rollers
- ✓ Turned parts and long turned parts
- ✓ Moulded rubber parts
- ✓ Rubber-metal bonded parts
- ✓ Assemblies/modules and installations
- ✓ Metal substitution
- ✓ TPU-X® (cross-linked TPU)

We develop and manufacture to suit your specific requirements. We are happy to make an offer or meet with you without charge to discuss a solution.

HUNOLD + KNOOP READY FOR YOUR CHALLENGES!

We have cooperated with partners in the industry for 40 years now and have since then continued to expand our range of products.

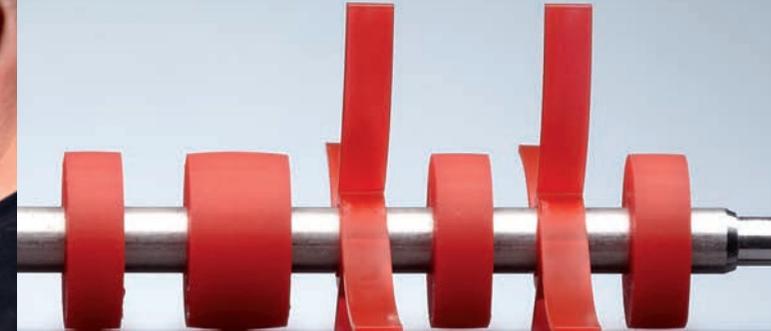
Ranging from preliminary designs to engineering and tool construction, long turning, injection moulding, CNC machining and even complete assembly, we handle all stages involved in the manufacturing process.



Find out more at
www.hunold-knoop.de

SHAFTS ROLLERS CYLINDERS

DETAILED PERFECTION



- ✓ EXTREMELY RESILIENT
- ✓ HIGHLY PRECISE GEOMETRIES
- ✓ SIMPLE AND INEXPENSIVE

World market leader
for extruded shafts



HK Hunold + Knoop
Kunststofftechnik

FORMEN | TRADITION | LEIDENSCHAFT

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PRODUCTION

PERFECTION FROM A SINGLE SOURCE

Special care needs to be taken when transporting paper in digital printing systems. Hunold + Knoop produces a whole variety of different axles for these transport units, reliably and rationally. Our 6-axle CNC long turning machines produce turned and long turned parts, shafts, axles and other engineered parts with the utmost precision. **This means we handle metalworking and plastic production here in our own factory!**

Hunold + Knoop possesses particular expertise in precisely positioned and friction-locked extrusion of these axles using thermoplastics. The bobbins are fixed firmly to the axle in our fully automatic production processes. These parts are then precision ground using state of the art CNC technology, while laser measurement technology monitors the process.

In recent years we have completed numerous applications for office appliances (printers, photocopiers, office machines, etc.) and the ATM industry (e.g. Diebold Nixdorf).

SPECIAL SOLUTIONS

We manufacture your special solutions. Our in-house tool construction means we can guarantee the necessary precision down to the last detail.



Insert moulding with 'soft' plastics (TPE and TPU) and subsequent grinding create the precise outline.

MATERIAL

HIGH QUALITY AND EFFICIENT

We process high-quality materials, e.g. **TPE, TPU, TPU-X[®], TPV, PP-EPDM** or **TPSiV** as 'soft materials' and, e.g. **PA, PC, PEEK** or **POM** as 'hard materials'. We also process **foamed materials** with outstanding mechanical recovery properties and extremely low abrasiveness.

We use all standard steel and aluminium types for our turned and long turned components. A particular expertise at Hunold + Knoop is the substitution of metallic shafts with high-performance plastics, also processed in 2-component injection moulding.

TPU-X[®]

*You will find additional information on the premium material in the flyer TPU-X[®] or on our website at www.hunold-knoop.de

THIS PROVIDES SUBSTANTIAL BENEFITS, AS ...

- ✓ Processing time is slashed by up to 70% compared with EPDM and rubber
- ✓ The sprue can be used as recycled material
- ✓ Finishing merely involves grinding
- ✓ Substitution of the steel shaft with a plastic shaft reduces costs and integrates functions

2-component manufacture (hard-soft) of a drive roller, including grinding and fitting of the finished assembly.

CNC long turning machines (up to 6 axles) to manufacture shafts and other engineered parts with extreme precision.



Our company is certified according to:

DIN ISO 9001:2015

DIN ISO 14001:2015

This certification confirms our quality capabilities and ensures that company operating procedures are controlled and structured.

QUALITY

QM AS A PHILOSOPHY

At Hunold + Knoop, quality means uncompromising delivery of all agreed product characteristics and consistent streamlining of operating procedures.

Our systematic and methodical application of various techniques within the quality management system (QM) prevents mistakes before they can even occur. We use a modern CAQ system based on process capability tests (CPT) and statistical process control (SPC) to validate agreed targets.

