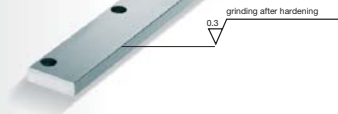


Technical and engineering know-how for special applications.  
Production volumes or single pieces – as required

**Customer specific guideways**  
...are standard for us. Our qualified sales engineers will be pleased to visit your facility to discuss the optimum solution for your new application.

**Delivery Commitments**  
We guarantee short leadtimes for prototype products and fixed production schedules for production volumes.

**Spare parts for machine refurbishments**  
When you require a replacement rail or set of rails – we manufacture to the original accuracy or better.



**SCHNEEBERGER is worldwide**  
SCHNEEBERGER subsidiaries, or specialist technical distributors, offer complete technical support and service in all major industrial countries.



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**SCHNEEBERGER – «Essentials for the Best!»**

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MONORAIL and AMS  
LINEAR BEARINGS and Recirculating units  
SLIDES  
MINIRAIL  
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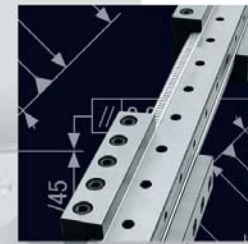
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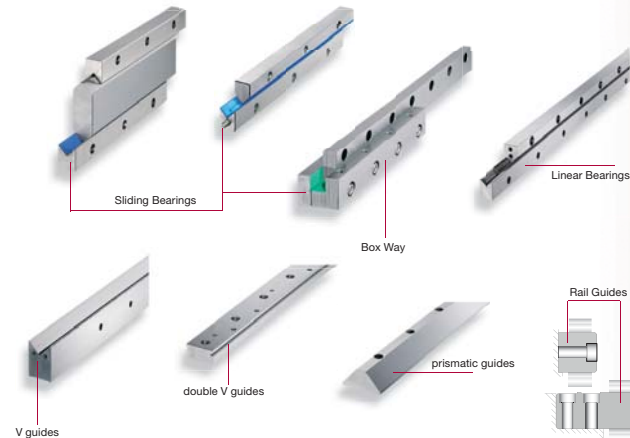
**SCHNEEBERGER**  
LINEAR TECHNOLOGY



Special components to customer specifications

20.10.2007-04.003036/v1.4/SR0303/Printed in Switzerland. Subject to technical changes.

Competence in Rolling Element and Sliding Guideways, Profile Rails, Gear Racks



**Raw Material Stocks**  
To minimise leadtimes, an extensive range of material profiles is held on stock supported by various specialist steel suppliers.

**Sawing off the peg**  
The rails are cut to the desired length.



**Milling and hobbing**  
The rail has its contour machined. Milling or hobbing depends on the volume of material to be removed.

**Drilling**  
We drill the rails with pitch error compensation for the hardening process. As a result multi-piece rails can be easily mounted.

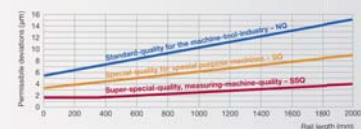


**Through hardening**  
Is one of our core competences. Cross-sections with a thickness of up to 55mm can be through hardened.

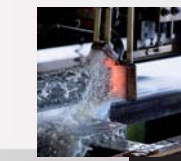
**Hardening and quenching up to 3m**  
Through hardening results in more stable and good straight rails. Through hardened rails can also be reground.

From standard precision to measuring machine accuracy classes... universal joints to give unlimited lengths

A flexible, stand alone production facility specializing in the production in the manufacture of guideways and gear racks:  
 • For the metalworking, automation, wood processing, electronics and measuring equipment industries.  
 • In various standard designs as single pieces or series volumes.  
 • As replacement parts for machine retrofits where spares are no longer available from the manufacturer.  
 Our employees have extensive experience, a flexible manufacturing facility and have the know-how from the research and development departments within the SCHNEEBERGER-Group at their disposal.



Parallelism tolerances



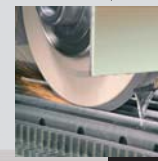
**Induction hardening**  
is of particular interest for very large cross sections, as well as very long components. Only the required surface areas of the cross-section are hardened.

**Induction hardening and quenching up to 6m**  
Longer single piece rail lengths means the number of butt joints can be reduced. A close tolerance is kept on the hole pitches.



**Then tempering and...**  
The hardening process induces internal stresses. A careful tempering eliminates such stresses without affect on the hardness.

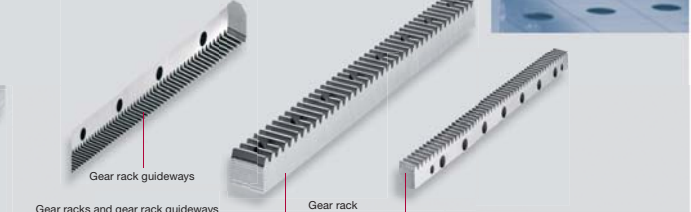
**...careful straightening**  
To prepare the rails for an efficient grinding operation, the rails are thermally and/or mechanically straightened.



**Efficient pre-grinding**  
The cross hatch with high pressure results in a high straightness of the rail in the non-fixed condition. Surface finishes to Ra = 1.0µm  
Parallelism < 0.03mm/m.

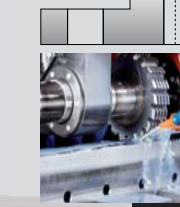
**End grinding**  
For straight or angled butt joints for gap-free multi-piece rails. This is done in efficient multiple settings.

Gear racks and gear rack guideways to customer specification

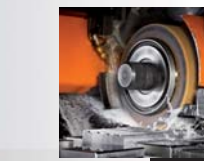
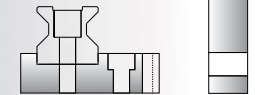


Gear racks and gear rack guideways

- Metric or module standards
- Up to module 16
- Helical or straight gears
- Hardened and tempered, nitrided, case-hardened, induction or through hardened
- Milled or ground
- Max. single piece length: 3000mm
- Multi-piece butt jointed rails for longer lengths



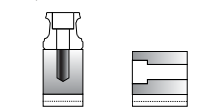
**Precision finish grinding**  
Precision grinding is where SCHNEEBERGER is recognized for quality. Extensive skills and 30 years of experience, gives us the competence to achieve extremely high levels of precision. Trackway to Ra = 0.3µm.  
**Coatings and sliding materials**  
Coatings for hardness, corrosion resistance or aesthetics are available. Slideways with various ground plastic or metal frictionless wear strips.



**Gear racks**  
Depending on the loading, gear racks are either thoroughly hardened, case-hardened or induction hardened, nitrided or hardened and tempered. The material varies depending on the process.  
**Milling and/or grinding**  
The required accuracy and surface finish determine whether the gears also need to be ground after milling. Best quality: O6.

Best Gear quality O6  
Individual adjacent pitch error  
 $f_p = 0.008\text{mm}$

Cumulative pitch error  
 $F_p = 0.025\text{mm}/300\text{mm}$



**Marking**  
For traceability or stock control the guideways are marked by laser. Butt joint ends are marked with identification numbers.

**Quality Control**  
To ensure the high quality standards of SCHNEEBERGER, all products go through a comprehensive and stringent quality check before shipment.