

## Stock items DURACON® 45M

DURACON 45M is a special tooling alloy which is produced in relatively low batch quantities (1 – 2 tons) by a special vacuum melting process. After casting a high amount of cold forming is required to ensure a good homogeneity of the material. This has consequences with respect to the available shapes, which are more limited compared with standard tooling alloys.

The forms of supply are either **rods** with a possible diameter range of ca. 14 mm to ca. 150 mm, or **slabs** with the upper range of cross-sections according to the list below. The rods are hot rolled or forged (for diameters > ca. 85 mm). The slabs have a relatively rough surface and round edges, which both need to be considered when planning the tool size.

The following table gives an overview about our stock items. ✓ means that that we should have >= 100 kg of the specific size on stock. **Please note that do not update this list on a daily basis. We strongly recommend to ensure the availability via mail or telephone.**

The required length is cut (raw saw cut) from the rod or slab, and our customers pay the actual weight of the piece(s), plus the costs of cutting.

Sizes/tolerances	Form of supply	Notes	Stock
97 $\pm 5$ x 370 $\pm 5$ mm <sup>2</sup>	Slab, hot rolled	R ca. 12 mm (edge)	Small amount
130 $\pm 5$ x 240 $\pm 5$ mm <sup>2</sup>	Slab, hot rolled	R ca. 15 mm (edge)	Small amount, new slab in production
65 $\pm 5$ x 320 $\pm 5$ mm <sup>2</sup>	Slab, hot rolled	R ca. 10 mm (edge)	Small amount
Ø 150 mm	rod, forged	Different tolerances	Oddments < 150 mm length
Ø 92 $\pm 2$ mm	rod, forged		✓
Ø 68 mm	Rod, hot rolled		-
Ø 45 mm	Rod, hot rolled		✓
Ø 20 mm	Rod, hot rolled		-

### SEKELS GmbH

Dieselstrasse 6

61239 Ober-Mörlen

Tel.: +49 6002 9379-0

Fax: +49 6002 9379-79

[mail@sekels.de](mailto:mail@sekels.de), [www.sekels.de](http://www.sekels.de)

SEKELS GmbH is official distributor of Vacuumschmelze GmbH & Co. KG, Germany, with focus on soft magnetic cores and materials including value adding if required. Our material stock of MUMETALL®, PERMENORM®, VACOFLUX® has been supplemented by the special tooling alloy DURACON® 45M.

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