

**Garant**
**Shrink-fit chuck, HSK-F 63 A = 120, Clamping range  $\varnothing$  D1: 3 mm**

**Order data**

Order number	308193 3
GTIN	4045197588074
Item class	31A

**Description**
**Version:**

Integral length adjustment of the tool from clamping  $\varnothing$  D<sub>1</sub> 6 mm (adjustment travel 10 mm).

- **High-temperature steel.**
- **Size 3 – 5 for carbide, from size 6 for HSS and carbide.**
- **With Balluffchip bores.**

Without tapped holes for balancing screws and **without thread for coolant pipe.**

**GARANT:** HSK mating faces machined. **All shanks hard turned (for smooth running!).**

**Application:**

- **For holding end mills and drills with parallel shank to h6 tolerance.**
- **Suitable for inductive, contact and hot air shrink-fit units.**

**Supplied with:**

For chucks with length adjustment including a length adjustment screw (from clamping  $\varnothing$  D<sub>1</sub> 6 mm).

**Optional extras:**

Coolant tube No. 309880, socket wrench No. 309890, shrink-fit chuck extension No. 302410 – 302416, shrink-fit units No. 354210 – 354450, balancing screw set No. 309906 180.

External  $\varnothing$  D: 20 mm

$\varnothing$  D<sub>2</sub>: 10 mm

**Technical description**

Clamping $\varnothing$ D <sub>1</sub>	3 mm
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Ø D <sub>2</sub>	10 mm
External Ø D	20 mm
Adapter	HSK-F 63 A = 120
Arbor standard	DIN 69893
Arbor standard	ISO 12164-1
Shape	F
Balance quality G at rotational speed	G 2.5 at 25,000 rpm
Concentricity	≤ 3 µm
Machining strategy	HSC
Machining strategy	HPC
Type of product	Shrink-fit chuck

## Accessories

Cooling unit Type CU1	354215 CU1
Shrink-fit unit Type SU1	354210 SU1
Subframe cupboard	354290
Screening plate for coil SU1 for clamping Ø 3-5 mm	354240 3-5
Cooling adapter short 4.5° for clamping Ø 3-5,9 mm	354235 3-5,9
Cooling adapter long 4.5° for clamping Ø 3-5,9 mm	354236 3-5,9