

## Garant

**Shrink-fit chuck with cooling channel bores, SK 50 A = 160, Clamping range  $\varnothing$  D1: 20 mm**



### Order data

Order number	302313 20
GTIN	4062406544737
Item class	31A

### Description

#### Version:

- **High-temperature steel.**
- **Size 3 -5 for carbide, from size 6 for HSS and carbide.**
- **All shanks hard turned (for smooth running!).**
- **With Balluffchip bore.**

With **coolant hole bores** tapped for plugging.

Coolant hole bores at clamping  $\varnothing$  D1: 3, 4 and 5 mm cannot be plugged.

#### Application:

For clamping tools with parallel shank to h6 tolerance.

Suitable for inductive, contact, and hot-air shrink units.

#### Optional extras:

Pull studs (PS) No. 308600 – 308800. PS wrenches No. 308820 – 308835, Shrink-fit chuck extensions No. 302410 – 302419. Shrink-fit units, accessories No. 354210 – 354450, balancing screws set No. 309906 size 180.

Machining strategy: HPC

Cooling channel bore: lockable

External  $\varnothing$  D: 41 mm

$\varnothing$  D<sub>2</sub>: 33 mm

### Technical description

Cooling channel bore	lockable
Clamping $\varnothing$ D <sub>1</sub>	20 mm

External Ø D	41 mm
Ø D <sub>2</sub>	33 mm
Adapter	SK 50 A = 160
Arbor standard	ISO 7388-1
Shape	ADB
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

Pull stud sealed, form B suitable for steep tapers 50	308650 50
Basic tool mounting for SK for SK taper shank 50 SK	354225 50
Pull stud, 18CrNiMo7 sealed, form B suitable for steep tapers 50	308615 50
Cooling unit Type CU1	354215 CU1
Screening plate for coil SU1 for clamping Ø 12-20 mm	354240 12-20
Wrench for pull studs ISO 7388 suitable for ISO taper size 50	308830 50
Pull stud 60° sealed suitable for steep tapers 50	308785 50
Shrink-fit chuck extension 4.5° without length adjustment screw Ø d / Ø D1 32/20 mm	302416 32/20
Cooling adapter short 4.5° for clamping Ø 16,1-22 mm	354235 16,1-22
Pull stud stud sealed, form A suitable for steep tapers 50	308610 50
Pull stud Form B suitable for steep tapers 50	308640 50
Pull stud sealed, form B suitable for steep tapers 50	308620 50
Torque insert for Pull studs to DIN 69872 suitable for ISO taper size 50	308810 50

Wrench for pull studs DIN ISO 7388-1 (formerly DIN 69872) suitable for ISO taper size 50	308820 50
Pull stud, 18CrNiMo7 Form A suitable for steep tapers 50	308605 50
Special pull stud with no internal thread sealed suitable for steep tapers 50	308700 50
Pull stud sealed suitable for steep tapers 50	308660 50
Pull stud 45° sealed suitable for steep tapers 50	308760 50
Special pull stud with no internal thread sealed suitable for steep tapers 50	308720 50
Shrink-fit chuck extension 4.5° without length adjustment screw $\varnothing d / \varnothing D1$ 32/20 mm	302410 32/20
Special pull stud with internal thread suitable for steep tapers 50	308740 50
Shrink-fit chuck extension 4.5° with length adjustment screw $\varnothing d / \varnothing D1$ 32/20 mm	302412 32/20
Torque insert for Pull studs to SO 7388 suitable for ISO taper size 50	308812 50
Pull stud 90° sealed suitable for steep tapers 50	308790 50
Pull stud Form A suitable for steep tapers 50	308600 50
Pull stud 45° sealed suitable for steep tapers 50	308765 50
Cooling adapter long 4.5° for clamping $\varnothing$ 16,1-22 mm	354236 16,1-22
Screening plate for coil SU1 for clamping $\varnothing$ 20-32 mm	354240 20-32
Pull stud 90° sealed suitable for steep tapers 50	308795 50