

## Garant

### Shrink-fit chuck with cooling channel bores, SK 40 ultra short, Clamping range $\varnothing$ D1: 20 mm



#### Order data

Order number	302230 20
GTIN	4045197467683
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.**

**Ultra-short version** for more stability and less vibration.

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

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

This results in a longer tool life and better surface qualities. Without length adjustment screw.

##### 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.

##### Note:

No length adjustment available.

Machining strategy: HPC

Cooling channel bore: lockable

Overhang dimension A: 65 mm

External  $\varnothing$  D: 43 mm

$\varnothing$  D<sub>2</sub>: 35 mm

## Technical description

Overhang dimension A	65 mm
Clamping $\varnothing D_1$	20 mm
$\varnothing D_2$	35 mm
External $\varnothing D$	43 mm
Cooling channel bore	lockable
Adapter	SK 40 ultra short
Arbor standard	ISO 7388-1
Shape	ADB
Balance quality G at rotational speed	G 2.5 at 25,000 rpm
Concentricity	$\leq 3 \mu\text{m}$
Machining strategy	HSC
Machining strategy	HPC
Type of product	Shrink-fit chuck

## Accessories

Cooling adapter short 4.5° for clamping $\varnothing 16,1-22$ mm	354235 16,1-22
Pull stud 90° sealed suitable for steep tapers 40	308795 40
Pull stud sealed, form B suitable for steep tapers 40	308620 40
Pull stud, 18CrNiMo7 Form A suitable for steep tapers 40	308605 40
Pull stud sealed suitable for steep tapers 40	308660 40
Pull stud sealed, form B suitable for steep tapers 40	308650 40
Pull stud 90° sealed suitable for steep tapers 40	308790 40
Torque insert for Pull studs to DIN 69872 suitable for ISO taper size 40	308810 40
Shrink-fit unit Type SU1	354210 SU1
	308812 40

Torque insert for Pull studs to SO 7388 suitable for ISO taper size 40

Shrink-fit chuck extension 4.5° with length adjustment screw  $\varnothing d / \varnothing D1$  32/20 mm

302412 32/20

Pull stud sealed suitable for steep tapers 40

308635 40

Pull stud Form A suitable for steep tapers 40

308600 40

Cooling unit Type CU1

354215 CU1

Pull stud Hurco 45° with fit sealed suitable for steep tapers 40

308802 40

Pull stud 45° sealed suitable for steep tapers 40

308765 40

Special pull stud with internal thread suitable for steep tapers 40

308740 40

Basic tool mounting for SK for SK taper shank 40 SK

354225 40

Pull stud Form B suitable for steep tapers 40

308640 40

Shrink-fit chuck extension 4.5° without length adjustment screw  $\varnothing d / \varnothing D1$  32/20 mm

302410 32/20

Shrink-fit chuck extension 4.5° without length adjustment screw  $\varnothing d / \varnothing D1$  32/20 mm

302416 32/20

Pull stud, 18CrNiMo7 sealed, form B suitable for steep tapers 40

308615 40

Wrench for pull studs DIN ISO 7388-1 (formerly DIN 69872) suitable for ISO taper size 40

308820 40

Pull stud 60° sealed suitable for steep tapers 40

308785 40

Pull stud stud sealed, form A suitable for steep tapers 40

308610 40

Special pull stud with no internal thread sealed suitable for steep tapers 40

308700 40

Pull stud Hurco 45° with bore and fit sealed suitable for steep tapers 40

308801 40

Pull stud Hurco 90° with fit sealed suitable for steep tapers 40

308806 40

Pull stud 45° sealed suitable for steep tapers 40

308760 40

Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40

308630 40

Pull stud Mazak sealed, form A suitable for steep tapers 40M	308670 40M
Screening plate for coil SU1 for clamping Ø 20-32 mm	354240 20-32
Pull stud Mori-Seiki, sealed, form A suitable for steep tapers 40	308625 40
Special pull stud with no internal thread sealed suitable for steep tapers 40	308720 40
Screening plate for coil SU1 for clamping Ø 12-20 mm	354240 12-20
Cooling adapter long 4.5° for clamping Ø 16,1-22 mm	354236 16,1-22
Wrench for pull studs ISO 7388 suitable for ISO taper size 40	308830 40