

**Garant**

**Shrink-fit chuck vibration-damped, with cooling channel bores, SK 40 A = 160,  
Clamping range Ø D1: 12 mm**


**Order data**

Order number	302210 12
GTIN	4062406545512
Item class	31A

**Description**
**Version:**

- **High-temperature steel.**
- **Integrated length adjustment of the tools.**
- **For HSS and solid carbide tools.**
- **Shanks hard turned (smooth cutting action).**
- **With Balluffchip bore.**
- **With coolant channel bores and threads that can be sealed.**
- **With tapped holes on each side for balancing screws.**
- **Reinforced version/contour.**
- **Polished surface.**
- **Specially mounted carbide core in the shrink-fit chuck body.**

**Advantage:**

- **Vibration-damping.**
- **Better workpiece surface finish.**
- **Optimised tool life.**
- **Increased process reliability.**
- **Lower corrosion tendency due to polished surface.**

**Application:**

For clamping tools with plain shank (h6 shank tolerance). Suitable for inductive, contact and hot air shrink-fit 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.

Cooling channel bore: pluggable

External  $\varnothing$  D: 32 mm

$\varnothing$  D<sub>2</sub>: 24 mm

$\varnothing$  D<sub>3</sub>: 50 mm

L<sub>2</sub>: 85.9 mm

## Technical description

$\varnothing$ D <sub>3</sub>	50 mm
External $\varnothing$ D	32 mm
$\varnothing$ D <sub>2</sub>	24 mm
Cooling channel bore	pluggable
Clamping $\varnothing$ D <sub>1</sub>	12 mm
L <sub>2</sub>	85.9 mm
Adapter	SK 40 A = 160
Arbor standard	ISO 7388-1
Shape	ADB
Through-coolant	yes
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
Vibration	damped
Type of product	Shrink-fit chuck