

bilz

25 year
PROMOTION

ThermoGrip® Shrink technology

BIONICS Shrink chuck



25 years of ThermoGrip® shrink technology



Bilz Werkzeugfabrik is celebrating the 25th anniversary of its ThermoGrip® shrink technology.

Since its introduction in 1998, the technology has been characterised by patented, energy-efficient disc technology and innovative liquid cooling for rapid cooling.

With ThermoGrip® BIONICS, ThermoGrip® TMG and other top products, Bilz has set important milestone standards in the manufacturing industry. These milestones reflect Bilz's long-standing commitment to technological excellence and quality, an endeavour that has continued since the company was founded in 1919.

We would like to celebrate this with you!

Join us throughout the year with exciting sales promotions.

Perfectly suited for our ThermoGrip® shrink machines

- Shrinkable with standard coil 1 up to diameter 25 mm
- Shrink machine X parameters for shrinking in and out

Smooth, silent running due to

“Balanced by Design” and subsequent fine balancing

- Improved surface quality = longer tool life, improved surface finish and better maintenance of tolerances
- Ideal for HPC, HSC, HA, HB & HE
- Protection for the machine spindle

Data Chip holes (HSKA)

Maximum form stability and life of the shrink chuck due to the use of high temperature resistant special steel

- High radial rigidity
- Low deflection
- High metal removal rates



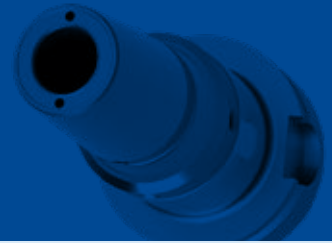
Features

- Maximum bending strength due to the bionic contour
- Increased rigidity
- Counterbore – the Thermogrip® trademark
- Improved surface quality due to optimised chip removal
- Run-out quality < 3µm

Benefits

- Higher feed rates and greater cutting depth
- Increased torque transmission
- Lockable Cool Jet holes for peripheral cooling and balance screw holes for fine balancing as standard

“ A tree is stabilised on the windward side by means of its root system, and exactly this method has been used by our engineers to develop an exceptional shrink chuck with extremely high bending strength.”



The patented counterbore makes

it possible for the tool to be inserted cold so that the shrinking process can be carried out fully automatically and thereby simplifies handling and improves user safety. 15 – 20 % reduction in heat requirements when heating up the shrink chuck.

Cool-Jet holes

(lockable)

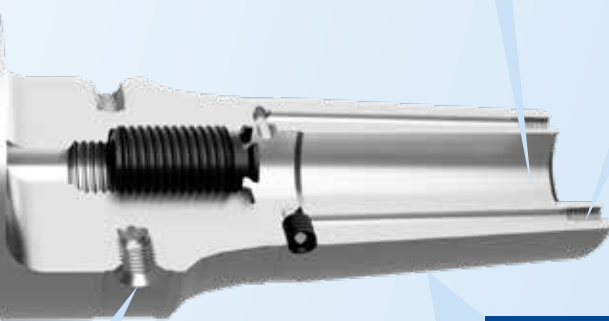
Maximum Concentricity

<0,003 mm and exact taper tolerances, manufactured in a climate-controlled environment

- Reduction of production costs due to a smoother cutting process leading to improved tool life.
- Reduction of chatter marks
- Increased tool life
- Better surface finish quality
- Maintenance of tolerances for longer

Tapped holes

For fine balancing with balancing screws

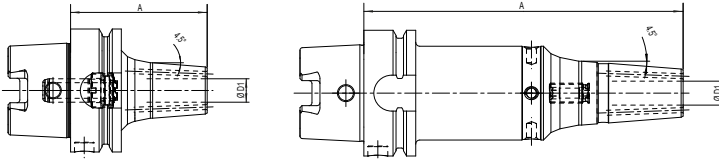


25 year shrink chucks

ThermoGrip® BIONICS

Shrink chucks with bionic structural optimisation

Valid Feb 2024 until the end of May 2024



TB.....-C1-HSKA63 Shrink Chuck			
Ident No.	Designation	Stock	Weight (kg)
5177819	TBUC0600-70-C1-HSKA63	Ex-Stock	0,820
5177821	TBUC0800-70-C1-HSKA63	Ex-Stock	0,796
5177822	TBUC1000-70-C1-HSKA63	Ex-Stock	0,850
5177827	TBUC1200-70-C1-HSKA63	Ex-Stock	0,841
5177834	TBUC1600-75-C1-HSKA63	Ex-Stock	0,860
5177840	TBUC2000-75-C1-HSKA63	Ex-Stock	0,940
5177818	TB0600-130-C1-HSKA63	Ex-Stock	1,245
5177820	TB0800-130-C1-HSKA63	Ex-Stock	1,239
5177823	TB1000-130-C1-HSKA63	Ex-Stock	1,358
5177829	TB1200-130-C1-HSKA63	Ex-Stock	1,343
5177835	TB1600-130-C1-HSKA63	Ex-Stock	1,425
5177841	TB2000-130-C1-HSKA63	Ex-Stock	1,680
5177817	TB0600-160-C1-HSKA63	Ex-Stock	1,670
5177816	TB0800-160-C1-HSKA63	Ex-Stock	1,664
5177826	TB1000-160-C1-HSKA63	Ex-Stock	1,847
5177830	TB1200-160-C1-HSKA63	Ex-Stock	1,831
5177836	TB1600-160-C1-HSKA63	Ex-Stock	1,991
5177842	TB2000-160-C1-HSKA63	Ex-Stock	2,169

Pole disc free of charge



Interchangeable pole discs for shrink fit chucks with very short A-dimensions (e.g. TBUC). The chuck enters easily into the ferrite disc. At the same time it is ensured, that the coil does not rest on the collar of the HSK toolchange body diameter and thus the coil is not damaged during the heating process.

Ident No.	Designation	Aktionspreis 25 Jahre ThermoGrip®	Stock	Weight (kg)
5195533	ISGS3201-1-UC; Pole disc	free of charge*	in stock	0,238
5195534	ISGS3201-2-UC; Pole disc	free of charge*	in stock	0,230

*TBUC: Disc required! Available free of charge with purchase of 5 TBUC shrink chucks

*TBUC only possible with ISG34XX series