

Test-action TER shrink collet*

Convinced by the highest precision
and perfect hold



“ Sometimes the same is not really the same. With us it is! TER collets stand for extreme repeat accuracy and save money”

TER Test-action incl. Promotional prices*
valid from now until December 31, 2022

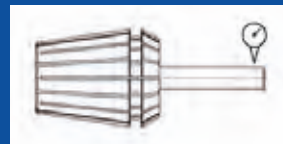


TER - Shrink collet

Lower production costs through high performance

The patented TER shrink collet Revolutionises the use of collets and Collet chucks in production. Through the use of thermal tool clamping (Shrink technology) the best holding and concentricity properties are achieved that others. Compared to conventional collets and collet chucks, the TER shrink collet with the following advantages:

- Highest concentricity
- Best repeatability
- Maximum tool holding forces
- Highest rigidity
- Low cutting tool wear, monoblock properties



Conventional collet
> 10 (Microns)



Bilz TER
< 3 (Microns)

Application area:

Collet chucks, driven tool holders, direct clamping in machine spindles

- ✓ **Working at high speed**
 - High transmittable torque
 - Stable clamping
 - Maximum holding forces
 - Ultra-precise, fast tool change (<30s)
- ✓ **Highly precise and reliable**
 - Excellent runout properties (<3 µm)
 - Extreme repeatability through exact clamping
- ✓ **And you don't even have to retool...**
 - Existing collet chucks can still be used
 - A universal tool holder for all sizes
 - Wear parts such as sealing rings no longer required
- ✓ **Produce more in less time**
 - ... the TER saves you cash in processing time.
- ✓ **Tool life increases up to 300%**
 - Very high stability of the system
 - Minimal loads from axial forces
 - Less tool damage in cut due to excellent concentricity properties
 - Not susceptible to machining contamination (dense monoblock system)
- ✓ **Produce longer with less wear**
 - ... Working with little wear and tear improves quality and productivity.
- ✓ **High quality production for the best results**
 - ... with TER, tolerances and rejects are minimised because of the TER shrink concept
- ✓ **Produce more effectively without are switching production**
 - ... minimum acquisition costs with maximum benefit

TER: The formula for highest precision and economy



TER
Collet



Tool



Adapter
Basic adapter



Thermogrip® Shrink devices



Highest
Concentricity properties
best Surface quality



TER Success story

bilz

Manufacture of high-precision spine support elements

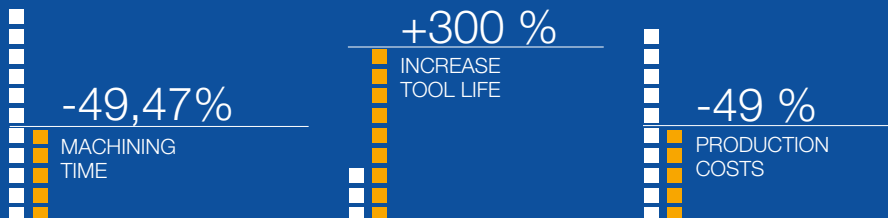
Key data: Machine: INDEX G200, batch size 1500 pieces, material: TiAl6V4

Cutting data competitor tool collet DIN 6499-25

Finishing: Ø 6mm cutting data $V_c = 75.36 \text{ fz} = 0.05$ machining time 20 s, tool life 500 pieces

Roughing: Ø 10mm cutting data $V_c = 50,24 \text{ fz} = 0.08$ machining time 75 s, tool life 500 pieces

Improvements through the use of TER:



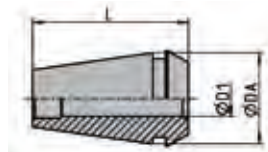
Cutting data use TER

Finishing: cutting data $V_c = 84.78 \text{ fz} = 0.06$ machining time 17 s, tool life 1500 pieces

Roughing: cutting data $V_c = 50.24 \text{ fz} = 0.2$ machining time 30 s, tool life 1500 pieces

TER Shrink collet*

Prices for TER promotional items



Promotional price
Save up to
62 %

TER	Description	Ident No.	DA (mm)	L (mm)	Weight (kg)
TER 16	TER0600/16	5004697	16	27,5	0,030
	TER0800/16	5004698	16	27,5	0,030
TER 20	TER0600/20	5004699	20	31,5	0,056
	TER0800/20	5004700	20	31,5	0,054
	TER1000/20	5004701	20	31,5	0,045
TER 25	TER0600/25	5004705	25	34	0,100
	TER0800/25	5004706	25	34	0,030
	TER1000/25	5004707	25	34	0,030
	TER1200/25	5004708	25	34	0,080
	TER1400/25	5004709	25	34	0,063
	TER1000/25	5004710	25	34	0,030
TER 32	TER0600/32	5004711	32	40	0,160
	TER0800/32	5004712	32	40	0,150
	TER1000/32	5004713	32	40	0,152
	TER1200/32	5004714	32	40	0,166
	TER1400/32	5004715	32	40	0,162
	TER1600/32	5004717	32	40	0,140
	TER1800/32	5004718	32	40	0,140
	TER2000/32	5004719	32	40	0,140



Selection form

Machine accessories

Basic adapter TER with length adjustment



Description	Ident No.	Weight (kg)
T3-WWK/TER	5020330	1,700
T3-W/55x114x70	5051118	0,883

Adapter for TER shrink collets



Description	Ident No.	Weight (kg)
TER16-2	5111890	0,100
TER20-2	5111891	0,100
TER25-2	5111892	0,100
TER32-2	5111893	0,100

* The offer is valid for end customers and resellers and includes the special offers listed in the table, while stocks last, promotional items available from stock, subject to prior sale, all prices are net prices and do not include statutory VAT, payable within 30 days net plus freight and packaging costs. TER stainless steel version: we make these TER collets available to you for testing for 90 days at no charge, return of the TER articles with a completed machining protocol within 90 days. The promotion is valid from now up to and including December 31, 2022. Our terms and conditions apply, which can be viewed at <https://www.bilz.com/conditions>.

TER shrink collet test-action*



Test the TER stainless steel version without a shrink machine



Try 90 days for free*

For shrinking stainless steel collets, a simple heat gun is adequate to complete the operation.¹ If you are not satisfied, simply return the TER collets to us within 90 days.

¹ not suitable for HSS tools

TER stainless steel design - tool clamping without shrinking machine

Select up to 2 TER promotional items* in stainless steel for your test

Size	Description	Ident No.
ER 11	TER0300/11-stain	5166955
	TER0600/11-stain	5166956
ER16	TER0300/16-stain	5166957
	TER0600/16-stain	5166958
ER25	TER0600/25-stain	5166959
	TER0800/25-stain	5166960
ER32	TER1200/32-stain	5166961
	TER1600/32-stain	5166962
	TER2000/32-stain	5166964

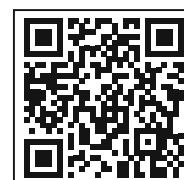


Selection form

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For clamping the tool
a simple hot air gun is
sufficient



Demo film

Convinced of the TER shrink collet?

Proven for over 30 years: ThermoGrip® shrink machines



Safe & efficient:

Thermogrip® shrink machine
competence in thermal
Tool clamping.



The alternative to buying a machine

Test the thermal Tool tension
and only pay for what you
pay for actually consume



TER TEST-ACTION -TRY US**

bilz

TER – our formula for highest precision

Complete the order form and send it to vertrieb@bilz.de

Contact details

Company:

Contact Person:

No. / Road:

E-mail:

Town / Post code:

Phone:

Select your TER promotional item at the promotional price and test it for yourself**

TER standard shrink collet - tool clamping with shrink device

TER	Description	Ident No.	Weight (kg)	Number
TER 16	TER0600/16	5004697	0,030	
	TER0800/16	5004698	0,030	
TER 20	TER0600/20	5004699	0,056	
	TER0800/20	5004700	0,054	
	TER1000/20	5004701	0,045	
TER 25	TER0600/25	5004705	0,100	
	TER0800/25	5004706	0,030	
	TER1000/25	5004707	0,030	
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	TER1800/32	5004718	0,140	
	TER2000/32	5004719	0,140	

Promotional price
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**Tool clamping
with Thermogrip®
Shrink machines**

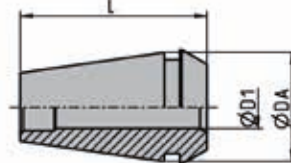


I am interested in shrink machine accessories for shrinking the TER collet. Please make me an offer.

TER stainless steel version - tool clamping without shrink machine**

Select up to 2 promotional items and test 90 days for free:

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ER 11	TER0300/11-stain	5166955	
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