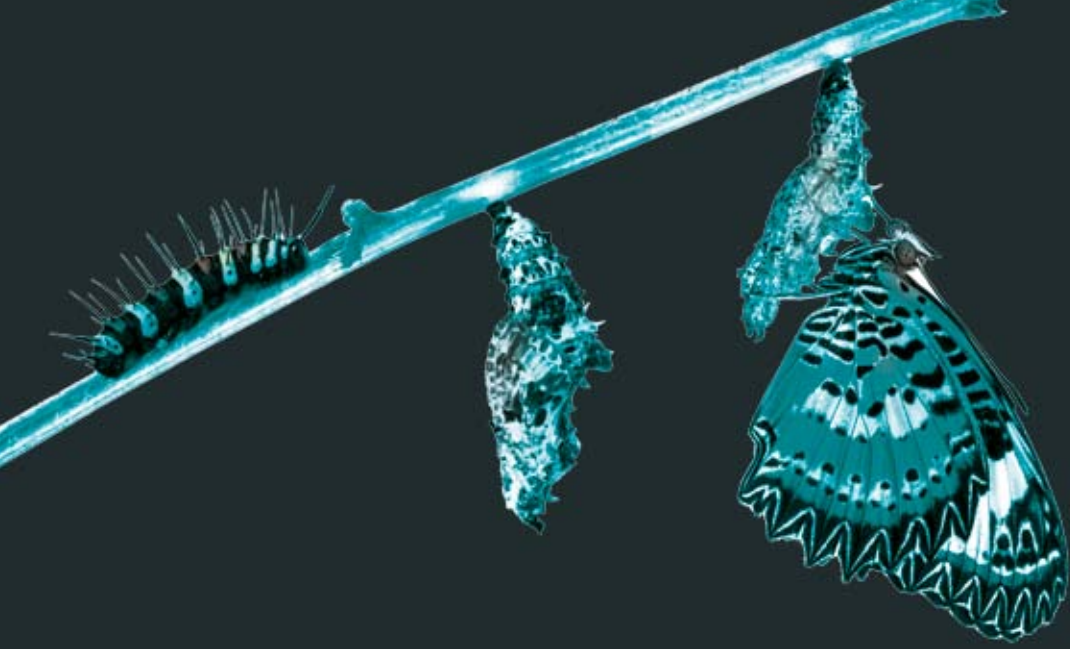




BILZ THE TECHNOLOGY LEADER
WITH AN UNRIVALLED CLAMPING CONCEPT

BILZ
Member of the Leitz Group



OUR SOLUTIONS ARE UNRIVALLED. WE'RE CLOSE TO THE CUSTOMER.
AND WE'RE LEADING THE WAY INTO THE FUTURE.



NEW



BTC

Technology meets modern design in the new BILZ presetter which every production environment can benefit from.

Benefits:

- Easy to operate
- Fast measurement of all commonly measured features.
- Measuring result easily printed

Application:

- Flexibility in production from Tool-room to shop-floor

CORONA JET

ThermoGrip CoronaJet is an ideal coolant supply feature bringing best swarf evacuation to all cutting applications. Allows optimised cooling control to the cutting edge without centrifugal coolant displacement away from the cutting edge.

Benefits:

- Targeted and consistent coolant supply to the cutting edge
- Maximum swarf evacuation especially suited to deep cavity machining
- No double cutting of swarf thus giving maximum cutter protection
- Longer tool life
- Better product quality
- Cost down

Application:

- General engineering application to high-tech aerospace and mold and die especially suited to deep cavities.

VIDAT

ThermoGrip® shrink extensions with anti-vibration features. An active dampening system allows the machining envelope to be moved out of the vibration zone thus minimising application harmonics

Benefits:

- Reduces harmonising effect produced by the cutting application
- Improved surface finish quality
- Extended tool life
- Better work piece quality

Application:

- Any industrial application where vibration is a problem including many aerospace parts where surface integrity is paramount, automotive parts, deep die cavities and other critical operations.





SHRINK CHUCK IDENTIFICATION

Automatic process security optimised handling and complete control of product data at your fingertips.

Benefits:

- Automatic Chuck identification
- Automatic shrink machine parameter setting
- Operator error eliminated
- Easy handling
- Maximum security

Application:

- Optimised logistical control in process engineering.

SMARTCHIP

RFID technology for modern industrial applications with industry 4.0 on our doorsteps BILZ has developed an optimised and cost effective solution for in-process tooling identification.

Benefits:

- Efficient logistical control
- Highest economic advantages
- No limit to data storage, through databank

Application:

- Any process control of tooling to optimise data and application security and control

WFS

Suited to multi-spindle applications with synchronised drive systems. For the first time BILZ presents synchronised tapping solutions with quick change applications/ combinations.

Benefits:

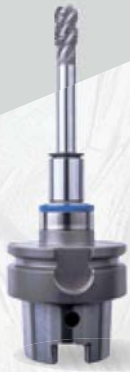
- Reduced setting times
- Longer tap life
- Improved thread quality
- Compensates spindle and feed synchronisation errors
- Reduced cutting forces
- Suited for MQL applications

Application:

- Optimised threading especially suited to synchronised tapping on multi-spindle machines.



NEW



SCS

Tradition meets modern technology in the new BILZ synchro chuck.

Benefits:

- Extremely slim and short build
- Quick change tap system
- Suited to Industry 4.0
- Direct clamping of tap

Application:

- Ideal for tapping in restricted locations
- Tapping possible on lathes as well as machining centres
- Suited to MQL applications.

STA

The STA – Synchronised Tapping Adaptor is ideal for neutralising synchronisation errors. This unique system solution for tapping offers optimised thread control with many benefits

Benefits:

- Increased tap life
- Optimised thread quality
- Reduced tooling expenditure
- Better threads for longer
- Better than rigid tapping

Application:

- Synchronised tapping applications
- Ideal addition when rigid tapping using ER collet chucks.

CNC

BILZ precision branches out into the traditional chucking world

Benefits:

- Quality from known BILZ standards
- Wide product range
- Competitive pricing
- Complete system provider

Application:

- Cost and logistical optimisation from one supplier.



ESTABLISHED



THREADING

BILZ, the pioneering design in tap chucks, a market leading product well copied but never overtaken.

Benefits:

- Complete system availability
- Tension/Compression tap holders
- Safety clutch
- Hard start
- Synchronised tapping
- Automotive compatible solutions
- MQL suitable

Application:

- Tapping solutions for all spindles and all applications from manual operations to high-tech state of the art manufacturing. BILZ has the complete solution including intelligent systems.

SHRINK TECHNOLOGY

BILZ ThermoGrip® shrinking systems, a market leading example of speed and efficiency

Benefits:

- Highest process security
- Cutter insertion into the cold chuck
- Controlled in and shrink out process
- All geometric designs available
- Fastest and safest system in the market
- No additional spare parts needed

Application:

- All industrial applications catered for

FLOATING HOLDER

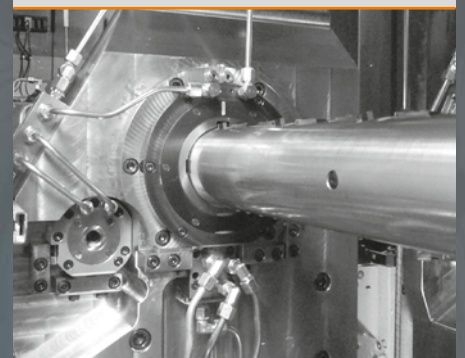
The highest precision in the market for non-aligned holes between transfer line spindle boring applications especially suited to problem free reaming applications.

Benefits:

- Floating access in 360° applications
- Maintenance free
- Adjustable centre positioning if required
- Especially suited for reaming applications
- High coolant pressure for optimised swarf evacuation

Application:

- All boring processes
- Problem solving for transfer lines

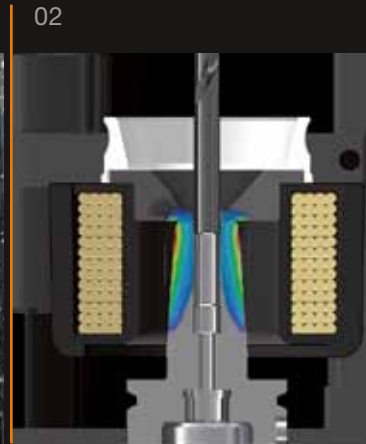
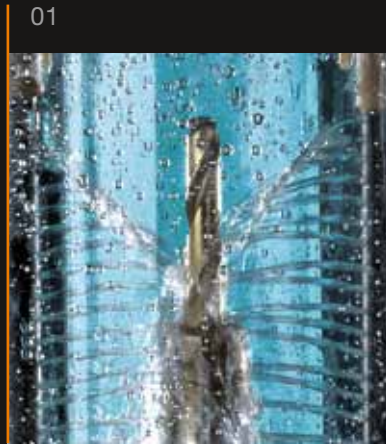


OUR THERMOGRIP® ISG MACHINES

Our machines grow with your requirements: if you're just at the beginning of incorporating shrink fit tooling, or you already run full production with it, the ThermoGrip® program covers all your needs.

The right machine
for every application

- Table top machines
- High-end solutions
- Air cooling
- Liquid cooling
- Accessories



THERMOGRIP® ISG 3400 SERIES

For the first time, BILZ has developed a uniform line of machine designs over all types of units. With the new design, the modular construction system is standard. With this system, the individual customer needs can be better matched to one of our machines.

Modular system: choose the range of diameters you want to shrink:

- SYSTEM 1:** SC 3 mm–20 mm, HSS 6 mm–20 mm
- SYSTEM 2:** SC 3 mm–32 mm, HSS 6 mm–32 mm
- SYSTEM 3:** SC 3 mm–50 mm, HSS 6 mm–50 mm

The advantage: your machine offers maximum flexibility – you define the range of diameters and how often tools are heated per day.

ISG 2400 TWK | ISG 3400 TWK
With ALLROUNDER cooling system



reddot design award
winner 2012

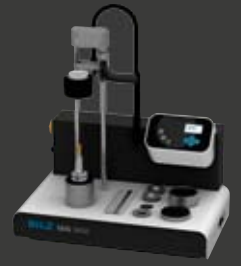
03



04



All information about the smallest of shrink fit tooling, beginner machines, universal machines or all-in-one machines can be found at www.bilz.de



- 01 **Cool down cooling system** – ten times more effective than contact cooling systems. Both available as ALLROUNDER or PROFESSIONAL systems.
- 02 **Advantage induction heating technology** – ThermoGrip®, the modular shrink system with a perfect match between toolholders and heating source.
- 03 **More safety** – Both heating and cooling take place at one position, no moving of the hot toolholder is necessary.
- 04 **Language neutral control panel** – Problem free operation, even when using protective gloves.



THERMOGRIP® ISG 3400 SERIE
Ergonomics meets Design



MANUFACTURING QUALITY AT THE HIGHEST LEVEL.

Knowledge gained by our employees over many years together with the right manufacturing facilities and the will to move in new directions mean that every day, Bilz is able to attain manufacturing quality on the highest level.



Even after long life of products our service team can refurbish your loyal serving products for further life extensions.

YOUR TOOL IN GOOD HANDS

BILZ REPAIR SERVICE WITH QUALITY AND EFFICIENCY



We hold our promises

Our qualified experts repair defective shrink machines, tapping chucks, drill chucks and many other BILZ products.

We offer a fast and reliable service

You will receive our non-binding cost estimate for the repair within 2 to 5 working days after receipt of your tool or machine at BILZ.



fair ■ fast ■ transparent

- fair assessment of your tool's condition
- you decide whether to go ahead with a repair or renewal after receiving our cost estimate
- if the repair is no longer economical, you will receive a non-binding quote for a new product
- repair and return will be carried out as quickly as possible
- please communicate any special requests to us

Visit our website (www.bilz.de/service/service-reparatur/)



Please contact our service team with any questions:

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