

165年的生产史, JOHS.BOSS精密刀具生产商, 德国Albstadt
Since more than 165 years: Johs. Boss Precision Tool Manufacturer, Albstadt/Germany



JBO的服务在于使得所有的加工工序 更高效化, 更简易化, 更舒适化!

For JBO, service means to make all processes more efficient,
easier and more comfortable.

我们对于自身螺纹铣刀、板牙和量规的服务范畴:

Our client services for Thread Milling Cutters, Thread Cutting Dies
and Thread Gauges:

- 1 我们专业的技术工程师将十分乐意的给与客户电话或者现场的支持!
Technical advice from our application engineers, by telephone or on site
- 2 为客户量身定制非标刀具和量规将是我们的职责之一!
Development of customer-specific special tools and special thread gauges
- 3 螺纹铣牙技术的介绍与现场技术支持
Technical on-site support with introduction to thread milling technology
- 4 JBOtronic软件系统将为你提供生产加工所需的CNC编程服务
JBOtronic for the independent creation of CNC programs for your production process
- 5 工业发展技术和商务的培训课程以及培训教材
Training courses and technical lectures for industry and commerce
- 6 根据客户提供的材料或者工件做相应的加工实验
Trials on customers materials or workpieces
- 7 根据客户加工情况提供相关的切削参数和经验值。
Data sheets with cutting parameters and approximate values for your stock removal tasks
- 8 提供JBO螺纹量规校准服务
JBO thread gauge calibration service
- 9 提供修磨服务
Regrinding service or instruction



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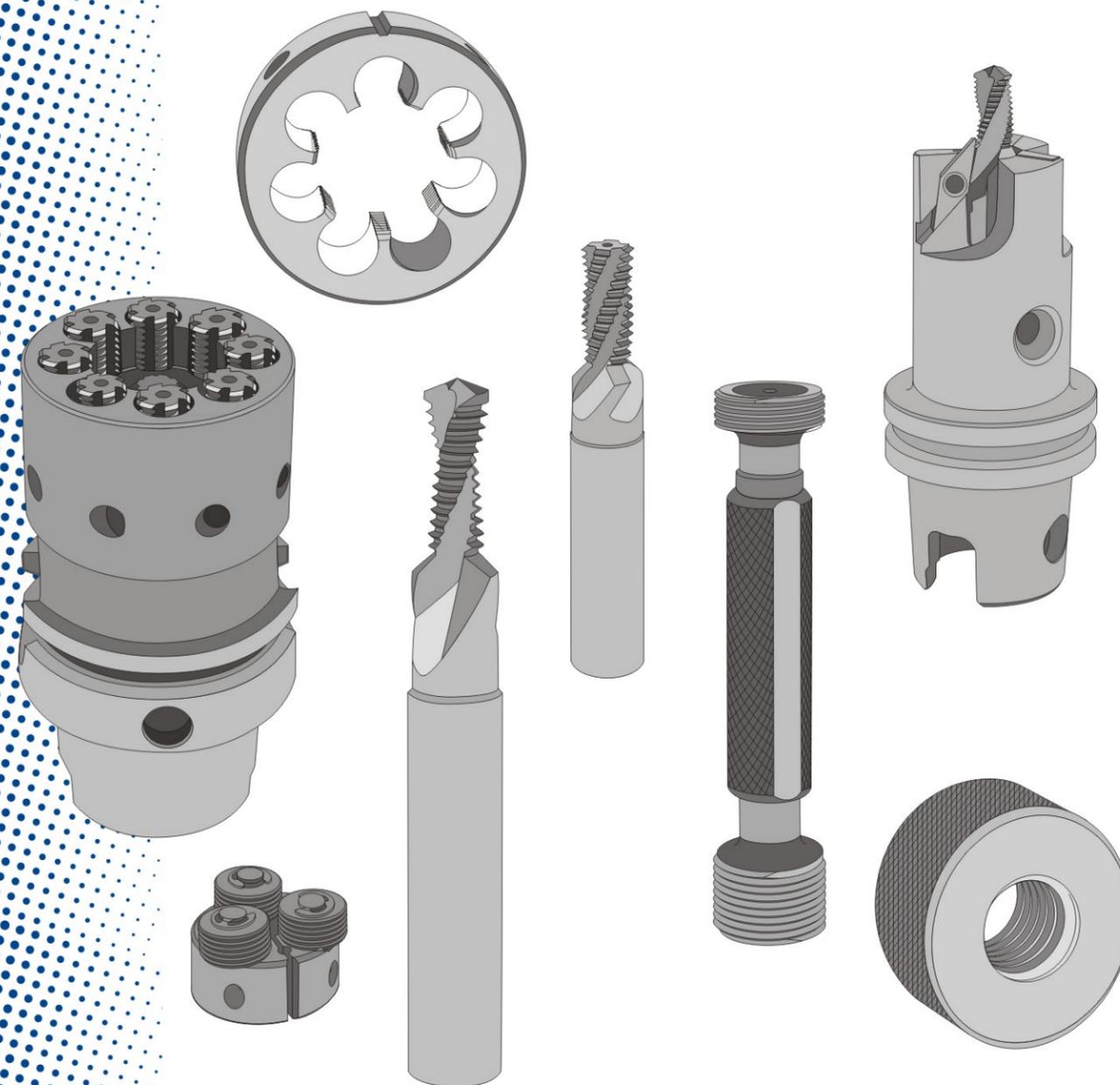
欢迎浏览我公司网站:

www.lizhengjixie.com www.lizhengkeji.com

您还期待我们进一步的服务吗? 请来电来函告知!
What can we do for you?



JBO 精密量具 螺纹刀具 - 德国制造 Precision Tools "Made in Germany"



JBO - Chinese leaflet 0315

- 超强螺纹铣刀
- 多刀式套状外螺纹铣刀
- 多功能组合螺纹铣刀
- 超硬螺纹铣刀 - PCD, CVD, CBN
- 高性能螺纹板牙
- 高性能螺纹滚丝轮 (螺纹滚压)
- 高精度螺纹量规

Thread Milling Cutters
Shell Type Thread Milling Cutters
Combination Tools
PCD-, CVD-, CBN-Tools
High Performance Thread Cutting Dies
High Performance Thread Rolling Dies
Precision Thread Gauges



组合式螺纹铣刀

Thread Milling Cutters
Combination Tools



整体硬质合金螺纹铣刀

Solid Carbide Thread Milling Cutters

GF



整体硬质合金螺纹铣刀
通用型 - 大幅提升内螺纹加工的效率

Solid carbide thread milling cutters
Universal tool for cost effective production of internal screw threads

GFS



整体硬质合金内螺纹组合式铣刀
通用型内螺纹组合铣刀 - 铣牙和铣倒角工序一次性完成, 从而大幅提升内螺纹加工的加工时间和效率。

Solid carbide thread milling cutters with chamfering capability
Universal tool for cutting internal screw threads. Increased productivity resulting from combined thread milling and chamfering in a single machining cycle without tool changing.

GFM



整体硬质合金多功能螺纹铣刀
通用型铣刀 - 同螺距、多Ø螺纹尺寸

Solid carbide wide range thread milling cutter
Universal tool for cutting a wide range of thread - Ø with an identical pitch

GFS-ST



超强型整体硬质合金内螺纹组合式铣刀
专业方案 - GFS升级产品 - 解决钢件以及难加工材料的内螺纹组合铣刀 - 铣牙和铣倒角工序一次性完成

Solid carbide thread milling cutter with chamfering capability for steel and tough materials
Special version of GFS cutter for internal screw threads with chamfer

GFM-ST



超强型整体硬质合金多功能螺纹铣刀
GFM升级产品 - 解决钢件以及难加工材料的铣齿 - 同螺距、多Ø螺纹尺寸

Solid carbide wide range thread milling cutter for steel and tough materials
Special version of GFM cutter for cutting a wide range of thread-Ø with an identical pitch.

GFM-STL



超强加长型整体硬质合金多功能螺纹铣刀
与GFM-ST系列类似 - 专业解决钢件以及难加工材料的深度铣齿 - 同螺距、多Ø螺纹尺寸

Solid carbide wide range thread milling cutter, extended version for steel and tough materials
Special cutter similar to GFM-ST for cutting a wide range of thread-Ø with an identical pitch. Optimum tool for cutting deep threads without axial displacement of tool.

GFH



系列 超硬型整体硬质合金内螺纹铣刀
GF升级产品 - 专业针对经过表面硬化或调质处理后的钢件, 可加工硬度范围HRC54-63的材料

Solid carbide thread milling cutter for hard materials
Special version of GF cutter for cutting internal threads in tempered and hardened steels in the 54-63HRC range

GFE



微型整体硬质合金内螺纹铣刀
通用性微型内螺纹铣刀 - 加工范围M1.0-M3.5

Solid carbide thread milling cutter with single ring of teeth
Universal tool for cutting internal threads ranging from M 1.0mm to M 3.5mm

BGF



整体硬质合金钻铣一体刀
钻孔、铣牙、倒角三合一, 最大化的提高了加工效率, 减少2个刀位! 非常适合有色金属和铸铁材料的加工。

Solid carbide drill thread milling cutter
Combines drilling with thread milling and chamfering in the production of internal threads. Maximises productivity by elimination tool changing. Particularly suitable for machining non-ferrous metal and cast iron.

BGF 3



整体硬质合金三刃钻铣一体刀
BGF钻铣刀升级版! 我们特有的三刃设计非常适合短屑材料的加工, 在同心度方面体现出非常强悍和出色的性能。

Solid carbide drill thread milling cutter with 3 flutes
Optimised version of the BGF tool, particularly suitable for machining materials that yield short chips. Because of the greater number of cutting edges, this tool offers enhanced performance with improved centering.

螺纹铣刀优势简介

- 一种铣刀可以加工不同公差级别的螺纹
- 减少加工过程中的废品率
- 内螺纹切削过程中切削力小
- 高速，省时
- 螺纹表面质量优异无比
- 断屑性能优异，无缠屑问题
- 同一种螺纹铣刀可加工通盲孔中加工左右旋的不同螺纹
- 很小的切削力使得薄壁件的螺纹加工轻而易举
- 根据不同工件材料采用相配套的切削参数
- 切削时主轴的旋转方向无需调整
- 无需攻丝夹具，标准的夹持单元即可实现稳定的夹持度
- 可以铣精确深度的螺纹
- 盲孔铣牙可以几乎加工到底孔的根部
- CNC数控编程精确铣牙

General advantages of thread milling

- Thread to different tolerance classes can be produced with same cutter
- Tool breakage does not necessarily entail scrapping of the workpiece
- Less power needed for cutting internal threads
- Short machining times due to high cutting speeds
- Excellent thread surface finish
- Short chips, hence no chip problems
- Right and left hand threads can be produced in blind or through holes by the same cutter
- Low cutting forces enable threads to be cut in thin wall workpieces
- Cutting speeds and feeds can be matched individually to workpiece material
- No change of cutter spindle direction of rotation required
- No special tapping chucks required, standard chucks suffice
- Threads can be cut to exact depth
- Threads can be cut down to near bottom of blind holes
- Start of thread accurately determined by NC programme



现场服务：我们经过专业培训的工程师将非常乐意的到现场与您一起寻找最佳的解决方案！

On-site service: Our experienced team will gladly work with you on location to achieve optimum solutions to your machining jobs.

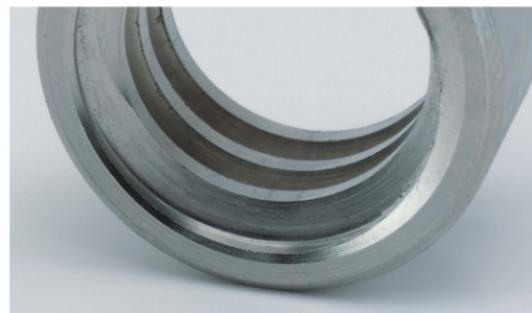
成功案例：螺纹规格Tr 24x5

Production example Tr 24x5

丝锥加工的效果
Machined with taps



JBO螺纹铣刀加工的效果
Machined with thread milling cutter

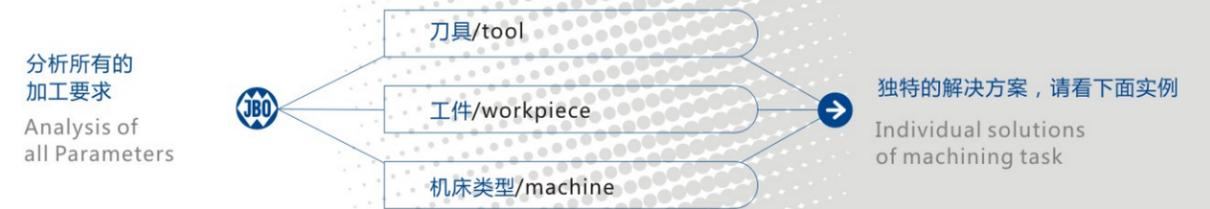


根据客户需求而特殊定制的刀具 Special client-specific tools

超越50年的成功经验
JBO公司专业的、极具创造力的技术团队保证了快速高效的
为您量身定制特殊需求的刀具

Short ways and decades of experience:
Special client-specific tools will be designed,
developed and realized at JBO in a very
efficient and quick way.

特殊刀具设计流程 Project flow for special tools



1
加工DIN405标准Rd48 x 1/6螺纹的特殊螺纹铣刀
Thread milling cutter for the production of an
Rd 48 x 1/6 knuckle thread to DIN 405.

2
平底沉孔钻铣一体刀 - 加工M14x1.5油塞螺纹
Drilling, thread milling, counterboring and spot
facing tool for M 14 x 1.5 drain plug thread in
oil sump.

3
多台阶平底沉孔钻铣一体刀 - 加工M8石油管道螺纹
Drill thread milling cutter M 8 with multi-step
counterbore for machining a petrol pump cover.

4
加工M38x3的PCD（金刚石）钻铣一体刀
PCD Drill thread milling cutter M 38 x 3

5
加工Tr 30x6的螺纹铣刀
Thread milling cutter for thread Tr 30 x 6.



Y: 0,262 Z: 0,188
M9 N130 M
-200m/min

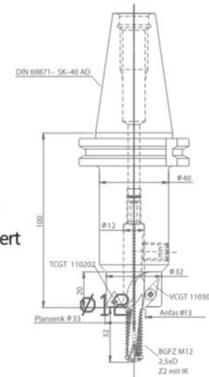
局部整平、平底镗、钻孔和铣牙组合刀具 * 一次成型 Combination Tools for spotfacing, counterboring, drilling and thread milling in a single cycle

特点
这种JBO组合刀具能出色的使局部整平、平底镗、钻孔和铣牙等工序一次性完成，最大化的提升了加工时间、效率和节省了刀具成本等。

Advantages
This tool combines spotfacing, counterboring, drilling and thread milling in a single cycle. The result is an appreciable reduction in the time required for such non-cutting elements in the cycle as tool changing and traversing.

实际案例 Production example

工件：发动机悬置系统
材料：铝合金压铸件（380铝）
加工程序：Ø10.2 mm镗孔
VCGT刀片45°倒角
Boss专有的TCGT刀柄局部平整加镗
铣牙M12
加工螺纹深度：28mm
刀具组合明细：
DIN 69871标准的SK40 AD刀柄 +
带中央内冷的M12 2.5XD钻铣一体刀 +
VCGT刀片 + TCGT刀片
切削速度：200m/min
进给量：镗孔0.3mm/rev
铣牙0.08mm/齿
加工时间：3.7秒
Workpiece: engine mounting
Material: aluminium alloy die casting (380 aluminium)
Operations: boring of minor Ø 10.2 mm diameter
45° chamfering with VCGT indexable insert
spot facing of boss with TCGT indexable insert
milling of M 12 thread
Depth of thread: 28 mm
Tool:
SK 40 form AD combination tool and M 12 2.5xD drill thread milling cutter with internal coolant supply VCGT indexable insert for chamfering and TCGT indexable insert for spot facing
Cutting speed: 200 m/min
Feeds: boring of minor diameter 0.3 mm/rev.
thread milling 0.08 mm per tooth
Machining time: 3.7 s



组合刀具实例

Examples for Combination Tools



组合式M12-2.5倍径钻铣一体刀具系统，包括中央内冷供给以及刀片式倒角和铣面功能

Combination tool with M 12 2.5xD drill thread milling cutter, including internal cooling supply and indexable facing and chamfering inserts



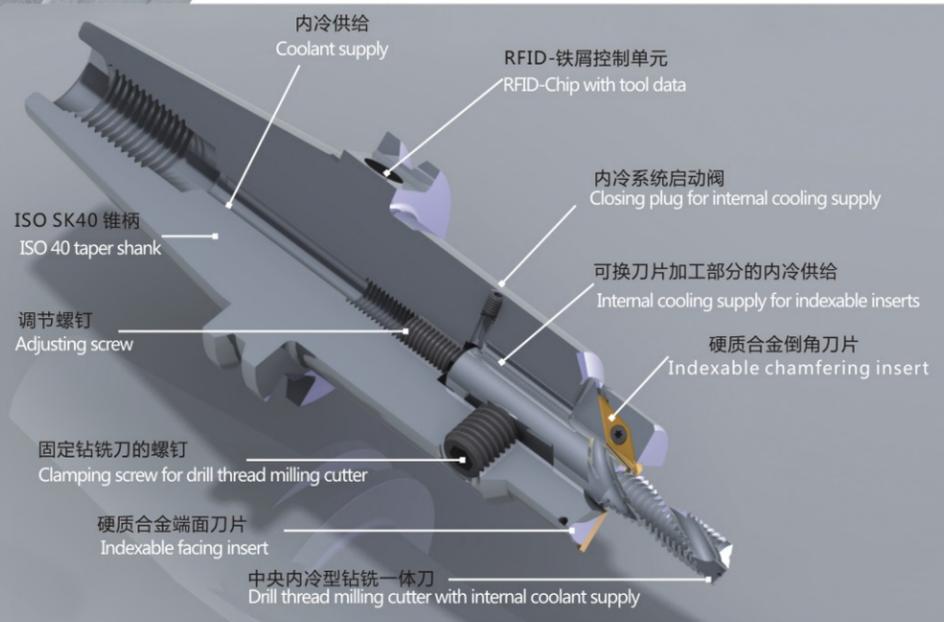
组合式M16x1.5钻铣一体刀具系统，终端铣牙，PCD刀片用于加工预制孔

Combination tool with M 16 x 1.5 drill thread milling cutter with end teeth and a PCD tipped contoured insert for machining a pre-cast hole

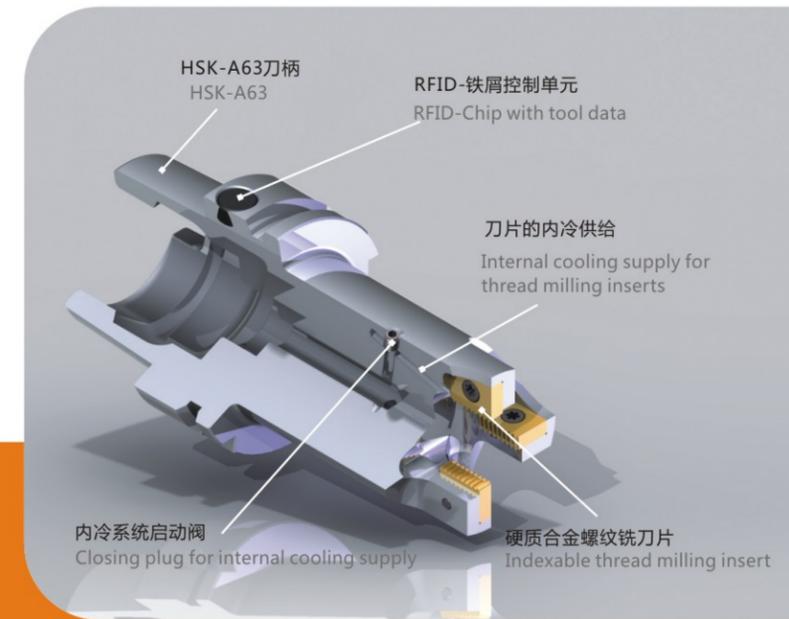


组合式M12x1.5-1.5倍径钻铣一体刀具系统，包括中央内冷供给以及双片铣面刀片

Combination tool with standard M 12 x 1.5xD drill thread milling cutter, including internal cooling supply and two indexable facing inserts



GFG-WP高速套筒式螺纹铣刀 Shell Type Milling Cutters GFG-WP



加工案例 Production example

GFG M1.5 Futura涂层刀片系统 - 加工M40x1.5-A型螺纹
螺纹深度：10mm。工件材料：Ms58铜，切削速度：400m/min
进给量：铣牙0.6mm/齿，加工时间：1.5秒

Production of M 40 x 1.5-A, Tool GFG M 1.5 Futura,
Depth of thread 10 mm, Material Ms58, Cutting speed 400 m/min,
Feeds: thread milling 0.6 mm per tooth, Machining time: 1.5 s



GFG-WP高速套筒可换刀片式螺纹铣刀

通用型套筒式可换刀片螺纹铣刀，出色的简易快捷性能！
大量库存的、各种类型的可换刀片满足客户对于不同螺纹加工的需求。
可换刀片（14和20mm切削刃长度）可以满足M系列公制螺纹，G系列管道螺纹和UN系列螺纹的高效加工。

Shell Type Milling Cutters with indexable inserts GFG-WP

Universal shell type milling cutter with indexable inserts, outstanding for its optimum accessibility and simplicity.
A wide range of different indexable inserts for various thread profiles is available ex stock.
Indexable inserts (14 and 20 mm long cutting edge) are available for M threads, G pipe threads and UN threads.



GFG-WFE高速套筒式螺纹铣刀

Shell Type Thread Milling Cutters GFG-WFE

钢件或者难加工材料长期批量生产的最佳选择

德国JBO个性化的设计思路，大量的切削刃、优异的钢性结构以及单独的刀片支撑座保证了超性能的高速切削与进给加工。加工时间大幅减少，而刀具使用寿命成倍增长！

Ideal for steel and difficult to machine materials for long run production

The appreciably greater number of cutting edges, the rugged construction and the seating of the individual cutter inserts permit higher cutting speeds and feeds compared with indexable insert milling cutters. Machining times can be reduced appreciably thereby, while tool life is increased by 50%, or even 100% in some cases

加工案例：

Production example

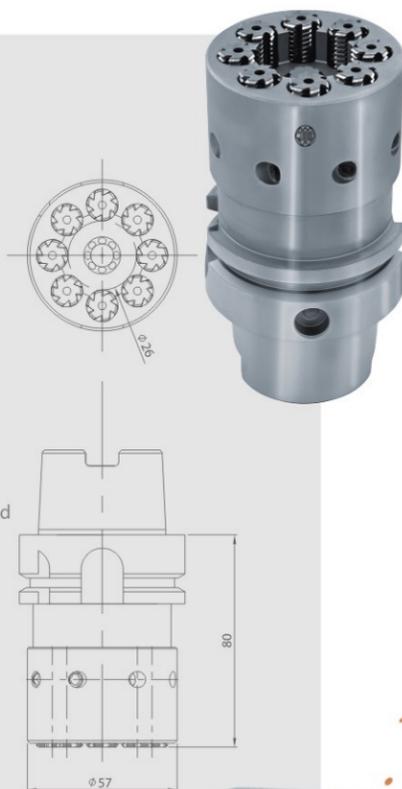
工件名称：拉紧螺栓
工件材料：17% Cr/13% Ni 不锈钢
加工方法：M22 x 1.5 外螺纹铣牙
螺纹长度：16mm

刀具名称：套筒式螺纹铣刀M 1.5螺距，TiCN涂层螺纹铣刀片
切削速度：100m/min
进给量：铣牙0.1mm/齿
加工时间：4.5秒

Workpiece: tightening bolt

Material: 17% Cr / 13% Ni stainless steel
Operation: milling of M 22 x 1.5 external thread
Depth of thread: 16 mm

Tool: shell type thread milling cutter with M 1.5 pitch, TiCN coated indexable thread milling inserts
Cutting speed: 100 m/min
Feeds: thread milling 0.1 mm per tooth
Machining time: 4.5 s

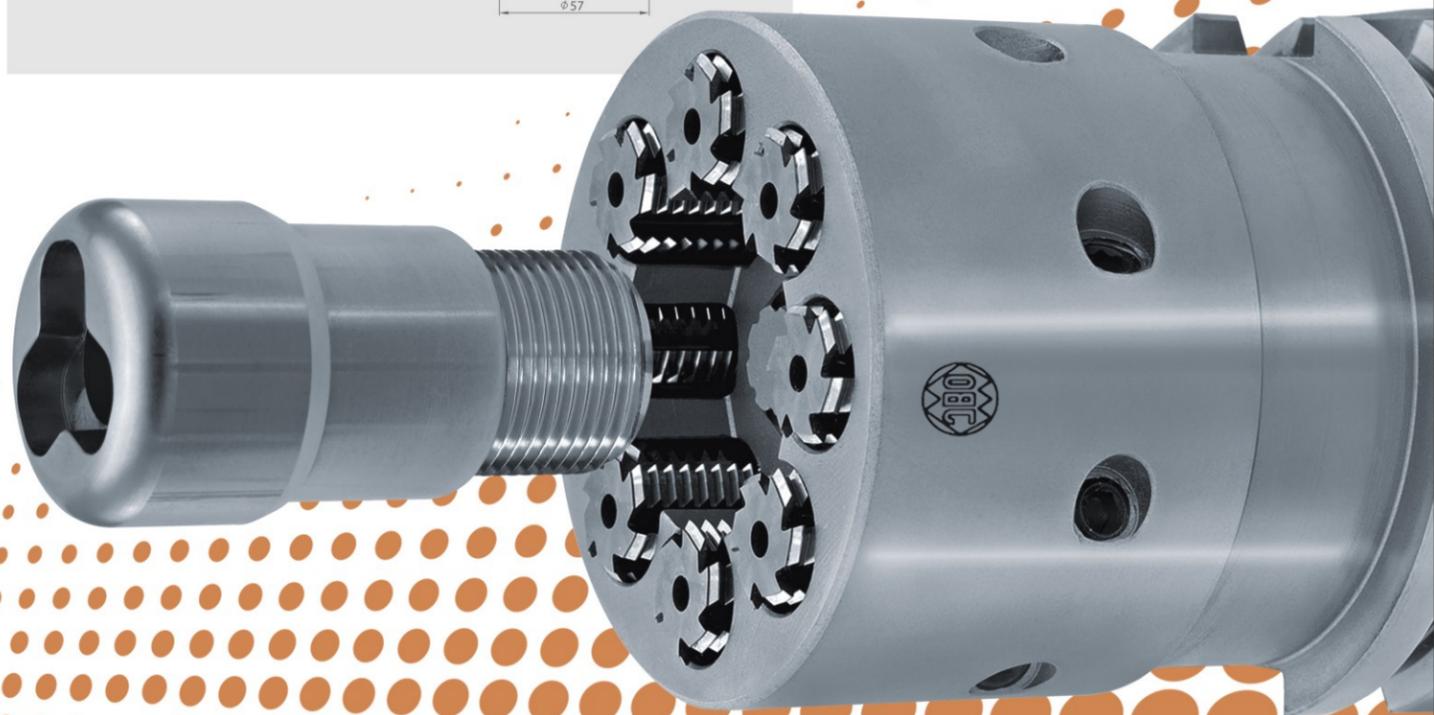


GFG-WFE套筒式螺纹铣刀的巨大优势

- 高铣削速度和进给量保证了非常短的加工时间，大幅提高了加工效率
- 超多数量的切削刃成倍的提高了刀具的使用寿命
- 优异的刀具系统刚性机构保证了更高等级的螺旋铣削表面
- 几乎涵盖了所有规格的螺纹加工
- 对于长期批量加工钢件产品有独特的优势
- 大幅降低了工件加工的单件成本
- 多齿型刀片可以重复修磨使用

The advantages GFG-WFE:

- Shorter machining times due to higher cutting speeds and feeds
- Increased tool life due to larger number of cutting edges
- Higher grade thread surface texture due to rugged construction
- Suitable for nearly any thread or profile
- Particularly advantageous for long run production of steel components
- Distinctly lower tooling cost per workpiece
- The inserts can be reground several times, as usual



JBO精密切削板牙优势简介

General advantages precision thread cutting dies

- 上百年的历史造就了JBO板牙在欧洲绝对的领先地位
- 质量卓越的切削刃以及螺纹齿形
- 超过13000种不同类型的超规模库存覆盖了1-250mm尺寸的产品范围
- 我们生产的高速钢、含钴高速钢以及硬质合金精密板牙，必定能满足您对于工件材料和应用案例的不同而需要的板牙。

- JBO is the leading European manufacturer of thread cutting dies
- Unsurpassed surface finish of thread flanks and cutting edges
- More than 13,000 sizes and types of dies kept in stock for all kinds of threads ranging from 1 to 250 mm diameter
- We can supply HSS, HSSE or carbide thread cutting dies, matched to the particular workpiece material and application in each case

我们引以为豪的是“JBO高精密切削板牙规格无限”

There are no limits to the range of JBO High Precision Thread Cutting Dies!



专为客户特殊需求而定制的板牙

Special client-specific tools

睿智的团队和多年的经验：保证了我们对于客户特殊需求所能做出最快捷和有效的设计方案。

Short ways and decades of experience: Special client-specific tools will be developed and realized at JBO in a very efficient and quick way.



1
对于工件无法拆卸的状况下，这种特殊设计的板牙可以实现二次攻丝或者清理已加工好的螺纹。
Die is used for recutting or cleaning threads where the threaded parts cannot be moved from their location

2
切线式可调板牙
A split die with a tangential adjusting screw

3
特殊双面钟形板牙，放置在中间部位可以实现两端螺纹同步加工
Special die of bell form on both sides. Cuts two threads simultaneously. Mid-mounted.

4+5
特殊形状的前端工作部位保证了刀具空间极具限制的攻丝加工得以实现。
Special die with projecting nose for cutting threads in confined spaces. Die 4 is designed for automatic tool changing on machining centres.

JBO高性能精密攻丝板牙

High Performance Thread Cutting Dies

RU



RU系列HSS高速钢系列板牙 - 德国DIN EN 22568标准
- 机用和手动攻丝
- 主要应用于钢件 (抗拉强度小于800N/mm²) 的攻丝
- 多种设计类型涵盖了大部分材料的加工

HSS thread cutting dies to DIN EN standards
- for machine and manual use
- for cutting threads in steel up to approx. 800 N/mm² tensile strength
- different versions for cutting a wide range of materials

VA



VA型超高性能攻丝板牙
专用于加工不锈钢、整体硬化钢、表面硬化钢、以及其他抗拉强度高达1200N/mm²的钢件，同样适用于铝合金等短屑材料的加工。
- HSS含钴高速钢，抛光处理
- 氮化处理有效的防止了积瘤现象
- 多数量的排屑孔和切削刃对铁屑的控制起到了至关重要的作用，切削齿引导斜面长度为2.25P。

VA thread cutting dies
For machining stainless, through hardening, surface hardening and other steels up to 1.200 N/mm² tensile strength, as well as aluminium alloys that produce short chips
- HSS, lapped
- nitrided to prevent cold welding
- fine chips due to more clearance holes and thus more cutting edges, and the extension of the chamfer to 2.25 P

GL



GL系列钟型高精板牙
开口式设计更有利于流畅的排屑，充分提高了冷却液供给的性能，可以加工到近乎工件的根部 (台阶部)。

Bell form type thread cutting dies
With open clearance holes for free chip flow and improved coolant supply, even when cutting threads close to shoulders.

BOSS专利类型RB/RBV高性能螺纹滚压模

高强度螺纹的滚压加工，滚丝轮可换并且可以双面使用

High Performance Thread Rolling Dies Boss Pattern/RB and RBV
High debitable, rolls turnable and exchangeable

RS/RSV瑞士型系列螺纹滚压模

High Performance Thread Rolling Dies Swiss Pattern/RS and RSV



AUTOM



AUTOM系列自动车床用高精板牙
切削刃和排屑孔更多更大，从而保证了更长的加工寿命和加工精度

Thread cutting dies for automatics
With greater number of enlarged clearance holes. Hence more cutting edges for longer die life and higher quality threads.

LI



LI系列长寿命高性能板牙
与VA系列板牙的应用范围相类似。
- HSS含钴高速钢，抛光处理
- 氮化处理有效的防止了积瘤现象
- 多数量的排屑孔和切削刃对铁屑的控制起到了至关重要的作用，切削齿引导斜面长度为2.5P。

Long Life-High performance thread cutting dies
Field of application as for VA thread cutting dies
- HSS (ASP 30) lapped
- nitrided to prevent cold welding
- very fine chips due to maximum number of clearance holes and thus still more cutting edges, and the extension of the chamfer to 2.5 P
- exceptionally long die life

SK



SK系列六角板牙
主要用于二次切削和齿形修正，或者用于在非困难部位攻牙

Hexagon dienuts
For recutting and reclaiming damaged threads or for cutting threads in difficult locations

MS

MS-ECORBRASS



MS系列铜件专用精密板牙
放大的排屑孔能够防止铜屑的堆积，M3规格以上的板牙在切削刃部分有特殊螺旋槽设计，更有助于排屑！
MS-ECORBRASS系列加工环保铜的高精密板牙
无铅铜加工的专用板牙，HSSE (含钴高速钢)、VA抛光处理、1.5P的刃口导程

Thread cutting dies for brass
Enlarged clearance holes prevent chips crowding, with spiral entry (gun nose) for threads ≥ 3 mm diameter.

Thread cutting dies for ECOBRASS
For machining unleaded brass
- HSSE, VA lapped, chamfer 1.5 P

ASL



ASL系列端面固定孔式板牙
与板牙套配合的低惯性延长了加工寿命，并且适合高转速的加工场合

Dies with mounting holes
The low inertia of the die holder permits higher spindle speeds and extends die life.

GL HM



GL HM系列高新硬质合金板牙 以及刃齿镶硬质合金 (焊接式) 板牙
主要用于加工黄铜与铜材料，最小加工螺纹直径为16mm。

- 高达100m/min的高转速加工场合
- 加工寿命15-30倍于普通高速钢板牙
- 大幅节省了刀具更换成本
- 大量节省了停机调试时间
- 干加工场合优势尤为明显

High-tech carbide thread cutting dies alternative carbide-tipped (brazed)
For machining brass and gun metal, available for thread diameters > approx. 16 mm
- high cutting speeds up to 100 m/min
- 15 to 30 times longer die life
- reduced die changing costs
- less machine down time
- advantages arising from dry machining

- 螺纹铣刀
- 套筒式螺纹铣刀
- 组合式刀具
- PCD-, CVD-, CBN-刀具
- 高性能攻丝板牙
- 高性能螺纹滚压模
- 高精密螺纹量规

- Thread Milling Cutters
- Shell Type Thread Milling Cutters
- Combination Tools
- PCD-, CVD-, CBN-Tools
- High Performance Thread Cutting Dies
- High Performance Thread Rolling Dies
- Precision Thread Gauges



JBO 高精密螺纹量规

Precision Thread Gauges



高精度螺纹量规

Precision Thread Gauges

LD



GD



通端螺纹塞规
尺寸依从德国DIN2281-1标准，
大于Ø 40 mm的塞规则执行德国
DIN2281-2标准

Thread plug gauge Go
Dimensions according DIN 2281-1
above major-Ø 40 mm DIN 2281-2

AD



止端螺纹塞规
尺寸依从德国DIN2283-1标准，
大于Ø 40 mm的塞规则执行德国
DIN2283-2标准

Thread plug gauge No Go
Dimensions according DIN 2283-1
above major-Ø 40 mm DIN 2283-2

LD



通止一体型螺纹塞规-锥形等级限制

Thread plug gauge Go/No Go
conical with step limit

LD 系列螺纹塞规通/止，Ø 40 mm以内的塞规尺寸依从德国DIN2280标准
LD Thread plug gauge Go/No Go, Dimensions according DIN 2280 until major-Ø 40 mm

LD-TiCN 螺纹塞规通/止，高速钢HSS加TiCN涂层
LD-TiCN Thread plug gauge Go/No Go, HSS-TiCN-coated

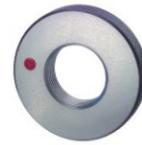
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通端螺纹环规
尺寸依从德国DIN2285-1标准

Thread ring gauge Go
Dimensions according DIN 2285-1

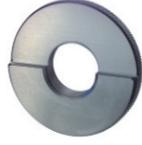
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止端螺纹环规
尺寸依从德国DIN2299-1标准

Thread ring gauge No Go
Dimensions according DIN 2299-1

LR



通止端锥形螺纹环规-级数限制
Thread ring gauge Go/No Go
for tapered thread
with step limit



8000多种不同规格、尺寸和公差等级的大量库存保证了迅捷的交货服务

Large stocks covering more than 8,000 different thread dimensions and tolerances for quick delivery.

不可比拟的海量库存以及种类齐全的量规规格让我们引以为豪，当之无愧的市场领先者

We are the market leaders with our exceptional stock holding and variety of thread sizes.

非常齐全的产品范畴涵盖了从0.5-300mm之间几乎所有的螺纹规格。

Complete range of gauges covering all kinds of threads from 0.5 - 300 mm diameter.

JBO多功能螺纹检测检测塞规

MultiCheck Thread Plug Gauges

MCS

MCS系列多功能螺纹通止检测塞规，自带检测刻度，读写精度0.5mm

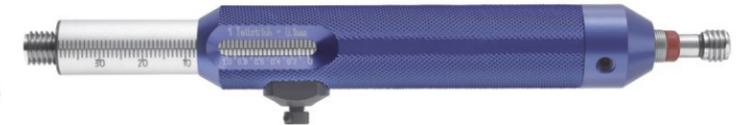
MultiCheck Scale, Thread plug gauge Go/No Go
Accuracy of reading 0.5 mm



MCN

MCN游标型多功能螺纹通止检测塞规，读写精度0.1mm

MultiCheck Vernier, Thread plug gauge Go/No Go
Accuracy of reading 0.1 mm



MCD

MCD电子数显式多功能螺纹通止检测塞规，读写精度0.01mm

MultiCheck Digital, Thread plug gauge Go/No Go
Accuracy of reading 0.01 mm



eMC

eMC型电控驱动式多功能螺纹通止检测塞规
eMultiCheck,
with electronically controlled drive

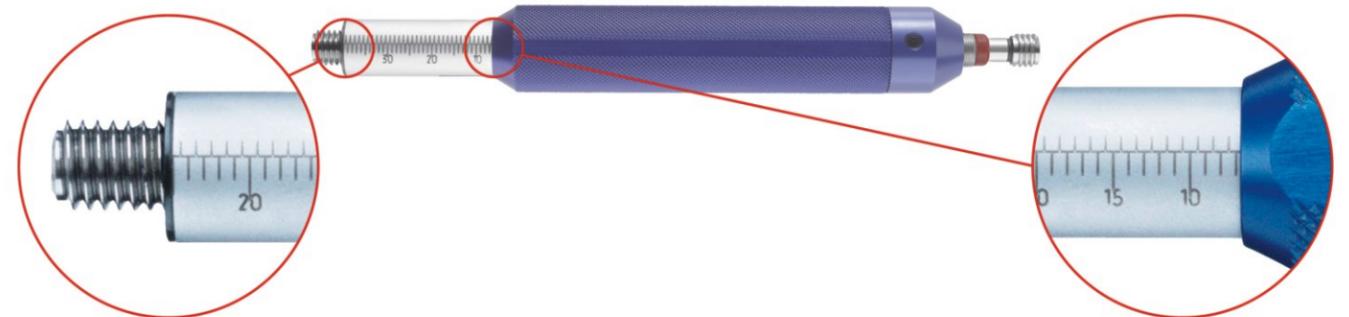


JBO多功能螺纹通止检测塞规的优势 螺纹塞规

- 一体化：同时检测螺纹规格和螺纹深度
- 高效率：减少50%以上检测螺纹的时间，eMC将减少80%以上的检测时间
- 深度：最大可检测4倍径深的螺纹（eMC 50mm）
- 通用性强：可使用标准的螺纹检测头
- 简易性：磨损后只需更换螺纹检测头
- 可靠性：螺纹深度可通过数显或者读尺来精确获得

Advantages of using a "MultiCheck " Thread Plug Gauge

- A single gauge checks both thread and thread depth
- Thread gauging cycle time reduced by 50 % (eMC 80 %)
- Thread depth up to 4xD can be measured (eMC 50 mm)
- Use of standard plug gauge inserts
- Simple replacement of worn plug gauges
- Reliable reading of thread depth from measuring sleeve or digital readout



用户化的非标定制螺纹检测量规以及检测设备装置

Special client-specific Thread Gauges and inspection machine mountings

实例1. 根据客户特殊要求制作的3头特殊螺纹塞环规

1. Thread plug gauge and thread ring gauge for customer-specific 3-start special thread.

实例2. 特殊定制的超长型螺纹检测塞规, 用于检测小而位置很深的螺纹

2. Thread plug gauge with increased stem diameter for checking small, deep seated threads

实例3. 特殊定制的环规, 用于检测设备上去检测径向和轴向偏心。环规工作螺纹齿有非常轻度的锥度, 便于确定工件的中心。

3. Thread ring gauge for mounting in inspection equipment to check radial and axial run-out. The thread of the gauge is lightly tapered to facilitate centring of the workpiece.

实例4. 特殊定制的塞环规, 检测非对称型的特殊螺纹

4. Thread plug gauge and thread ring gauge for customer-specific asymmetric special thread.

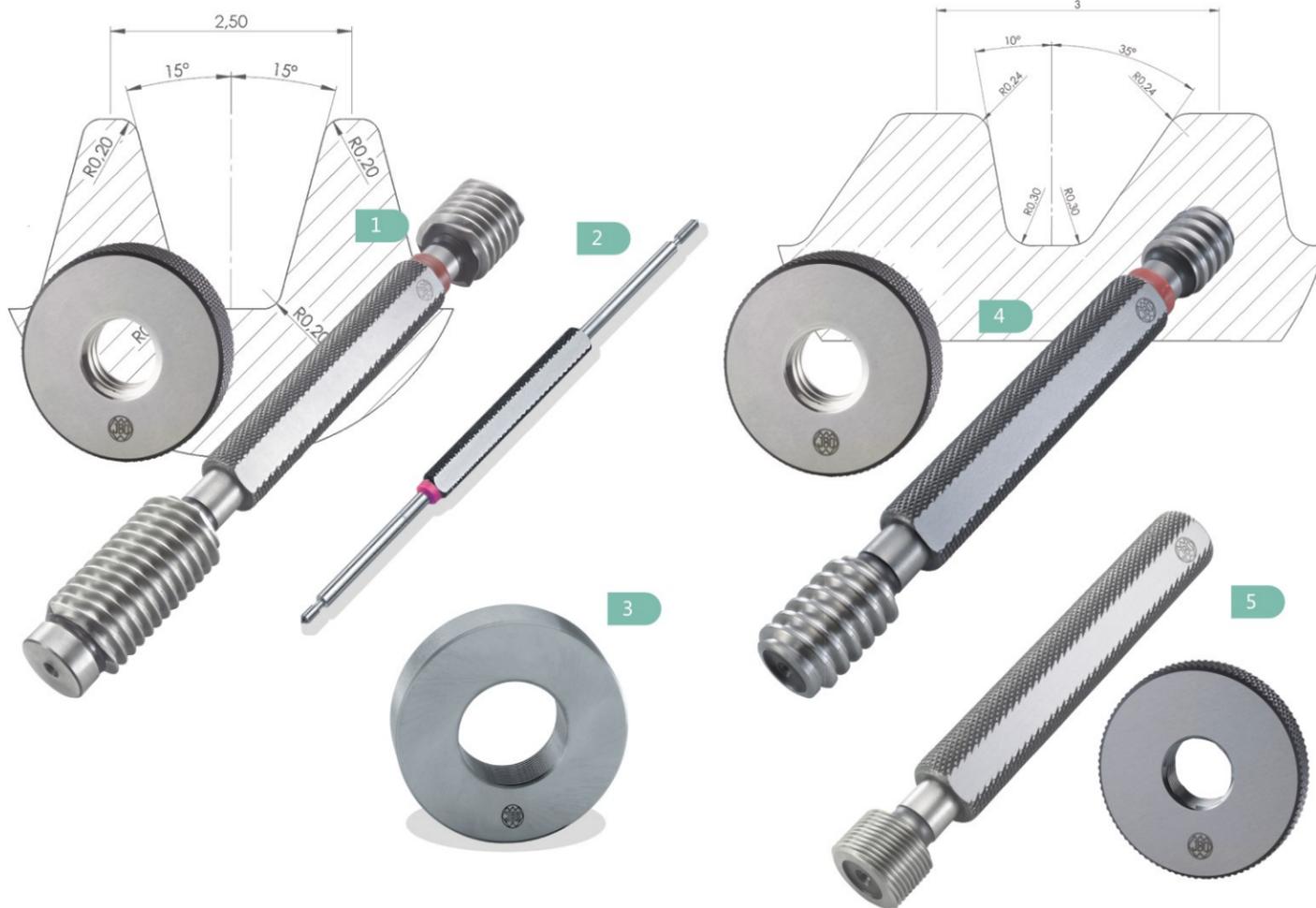
实例5. 非标多功能通端螺纹塞规和环规, 检测M12.5x6 P=0.75 tol.6g (8 start). 精磨的螺纹齿保证了最高的产品质量!

5. Multiple Go thread plug gauge and Go thread ring gauge M 12.5x6 P=0.75 tol.6g (8-start). Maximum quality with ground thread.



我们可以通过客户提供的图纸、案例以及样品特殊制作各种螺纹量规和设备配置配件。

Thread gauges and inspection machine mountings can be made to customer drawings or samples, or can be designed to suit special customer applications.



德国JBO螺纹量规 - 质量和寿命的新概念

JBO Thread Gauges – a concept for quality and wear resistance

最优化的量规螺纹齿表面质量以及超强的硬度控制保证了杰出的耐磨性和长寿命性

Optimum surface finish on thread flanks and high hardness of thread flanks result in outstanding resistance to wear and long gauge life.

JBO生产的螺纹量规在公差控制方面比各种标准所允许的公差带都要小, 从而保证了精确性!

Gauges are produced to the reduced tolerance wherever permitted by the overall gauge tolerance.

潜在的检测偏差
Measuring inaccuracy

更小的公差带 (一致性)
Reduced tolerance (region of conformity)

潜在的检测偏差
Measuring inaccuracy

标准螺纹量规公差带
Thread gauge tolerance

JBO原装的螺纹量规均有单独的、可永久保存的透明塑料包装盒

Gauges are supplied in individual transparent packing for permanent protection.



JBO螺纹量规校准服务

我们JBO, 作为欧洲最大的量规生产商, 可以根据客户需要提供符合德国DIN EN 10204标准的"3.1"量规检测报告。我们还可以提供更多检测项目的检测报告 (请看订货编号C1-C3)。所有检测和校准均在我们恒温的符合德国DIN EN ISO/IEC 17025标准的度量实验室完成, 整个欧洲乃至全球通用性的承诺和保证。对于检测后超出公差带的JBO螺纹量规, 我们不仅不收取任何的检测费用, 而且免费更换新的JBO量规。服务客户乃是我们的最高宗旨!

JBO thread gauge calibration service

We, as manufacturers, will issue a "3.1" acceptance inspection certificate conforming to DIN EN 10204 for the gauges supplied, if required. We can issue more extensive inspection certificates, if required (see Order Code C1-C3). The calibration is carried out in our air conditioned metrology laboratory in accordance to the DIN EN ISO/IEC 17025 and is mainly oriented to the terms of DAKKS-DKD-R 4-3 page 4.8/4.9. Traceability to national and international final dimensions is ensured. We do not charge for the inspection of any gauge that is found to be outside specified tolerances, if we may replace it by a new gauge.

