



shaping your dreams

加工解决方案

APPLICATION SOLUTIONS

OSG Corporation

Introduction

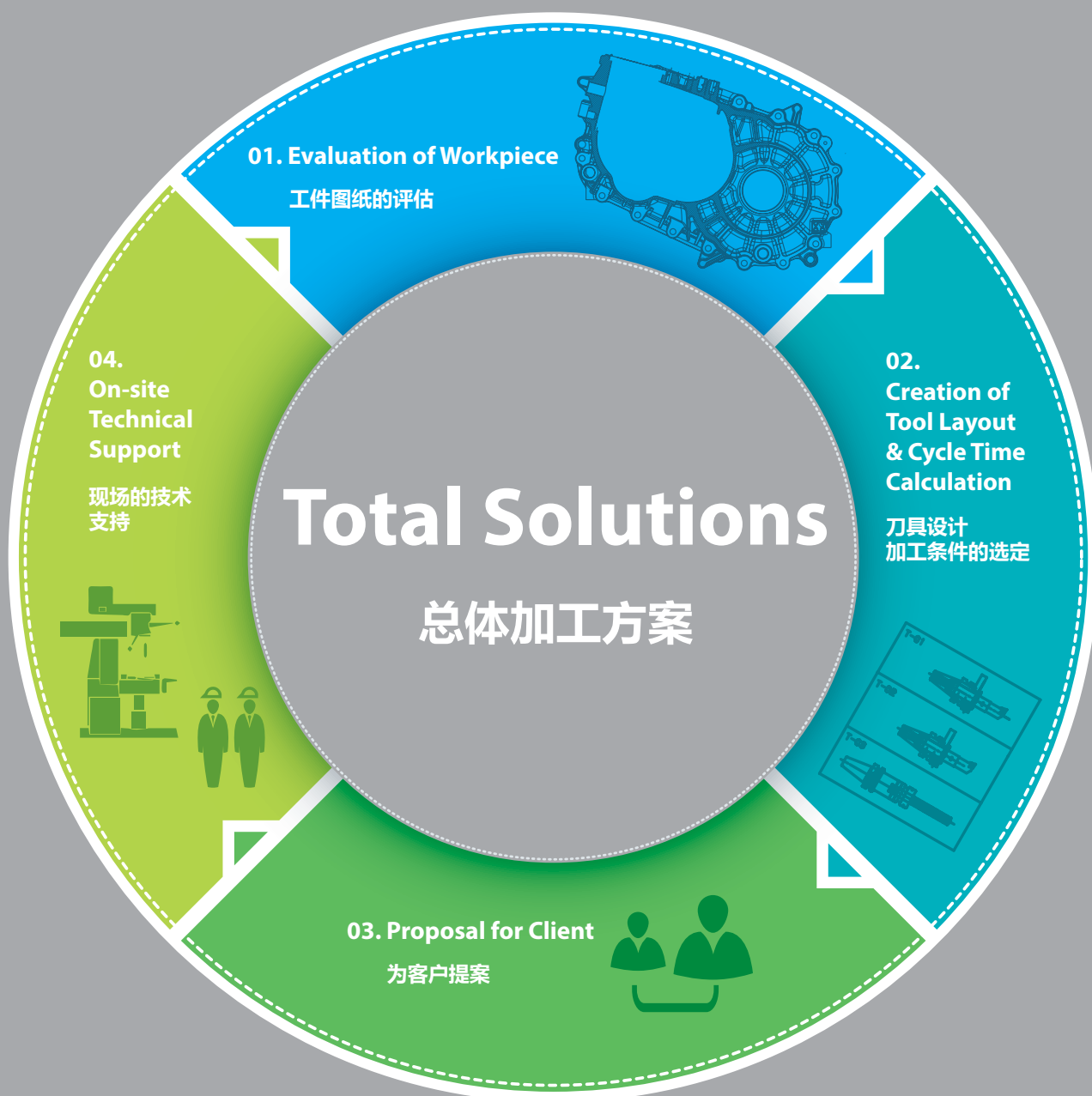
简介

OSG is the world's largest manufacturer of round cutting tools. Established in 1938, OSG has a long-standing reputation as a total solution cutting tool provider throughout the manufacturing industry. Gaining the support and trust of our customers

OSG自1938年创立以来，一直以将高品质高性能的精密切削工具提供给各个制造业而久负盛名。除了丝锥产品拥有世界第一的占有率，我们也通过钻头，铣刀，可转位式刀具，滚轧工具，测量工具等丰富的产品群来全面支援我们客户的加工。超过75年历史的可靠技术力以

has always been OSG's commitment. Through our innovative technological know-how, exceptional services, and out-of-the-box thinking, we can offer tailored support for your specific application needs.

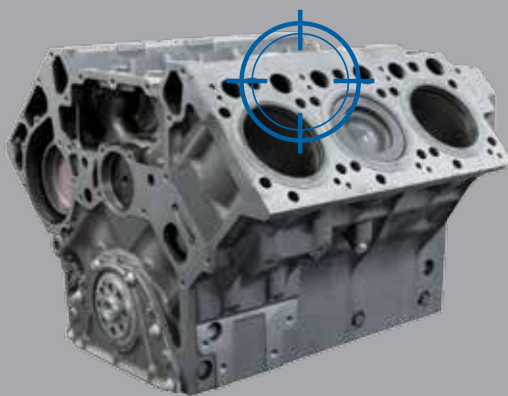
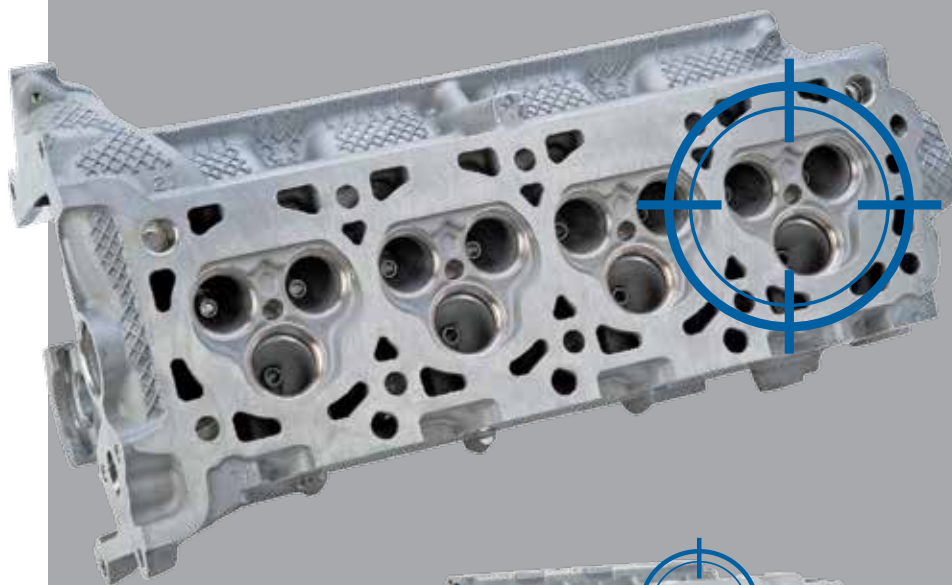
及最先进的加工技术得到了日本以及海外客户的充分信任。另外，我们的销售网覆盖全球30个国家，也就意味着针对客户的加工，我们可以从全球范围内为客户找出最适当的解决方案。





Automotive Solutions

汽车行业解决方案



The automotive industry is one of the world's most important economic sectors, comprising a wide range of organizations in the development of motor vehicles utilizing the latest technologies. It is said that there are approximately 20,000 to 30,000 parts per vehicle, which are manufactured by a variety of machining processes.

OSG offers products tailored for the machining of automotive parts, from the engine, transmission, to various die/mold components. Our premium tools feature exclusive metallurgy, cutting geometries and proprietary surface treatments to help increase productivity, reliability and tool life while reducing machining time and scrap.

汽车产业是世界最重要的经济组成部分之一，在汽车发展中需要最新的科技技术。据说每辆车都有大约20,000到30,000个零部件，其中大部分是通过机械加工来制作的。

从发动机，变速器等主要零部件到各种各样的模具组件，OSG的刀具都有被广泛运用。为了满足提高精度，缩短时间，削减工序等各种客户的要求，我们将全力以赴。

Carbide Burnishing Drill (Special)

Ideal for machining complex holes and countersink. Simplifies tool management with its high rigidity design and excellent hole accuracy.

抛光硬质合金钻头（非标品）

最适于有多阶孔，倒角，沉孔形状的复合孔的加工。可以削减工序。刀具拥有高刚性及出色的孔精度等优点。



HSK Solid PCD Cutter (Special)

High rigidity, precision and long tool life in aluminum applications.

HSK整体式PCD刀具（非标品）

HSK材质能在铝材加工中实现高刚性，高精度，长寿命的。铣削加工。



DC-P Disc Cutter

DC-P盘形铣刀



Steel body disc cutter best used for the machining of aluminum in small machining centers such as BT30.

钢制刀体盘形铣刀最适合在小加工中心（例如BT30）加工铝材。

A-Tap A-SFT/A-POT

切削丝锥A-SFT/A-POT



All-purpose tap series designed to simplify tool management and to excel in a wide variety of materials and applications.

一把A丝锥就可以应对广泛的加工材料及加工机械，使得刀具管理得到简化。并且其出色排屑性可以实现稳定加工。

Carbide Reamer (Special)

硬质合金铰刀（非标品）



Carbide reamer designed for finishing. Special geometry permits excellent accuracy, tool life and stable machining in various drilling applications.

硬质合金铰刀适于各式各样的孔的精加工。基于丰富的经验设计出的刀具可以实现高精度，长寿命，稳定加工等特点。

PCD Reamer (Special)

PCD铰刀（非标品）



High performance and precision PCD reamer for aluminum applications.

PCD铰刀在铝材高精度孔加工中不可或缺，通过活用丰富的制作实绩实现高性能的式样。

ZDS Counterboring End Mill

ZDS沉孔铣刀



Capable of non-step counterboring (depth of 1D or less) without pilot holes. Excellent chip evacuation and high accuracy even when machining on a slope.

在加工小于1D的沉孔时，不需要定位孔。甚至当加工发生倾斜时，依旧能保持良好的排屑性和高精度。

Automotive Special Tooling

汽车专用刀具（非标品）



Special automotive tooling made for the machining of cylinder head, cylinder block, connecting rod, etc.

汽车专用刀具是加工缸盖，缸体，连杆等汽车零部件的必要刀具。

Thread Gauge

螺纹量规



Thread gauges are used to inspect pitch diameter and pitch accuracy of internal threads.

用于检测内螺纹精度的工具，是结合优秀的螺纹研削技术和热处理技术的高品质，高精度的产品。外螺纹用环规也已加工系列。

OZT Tool Presetter

OZT刀具预调仪



Tool presetter by the German maker ZOLLER Corporation. Great accuracy and easy operation with the attached touch panel.

由德国ZOLLER公司制造的刀具预调仪，简易的触屏操作，能提供良好的测定准确性。

Jig (Special)

工装夹具（非标品）

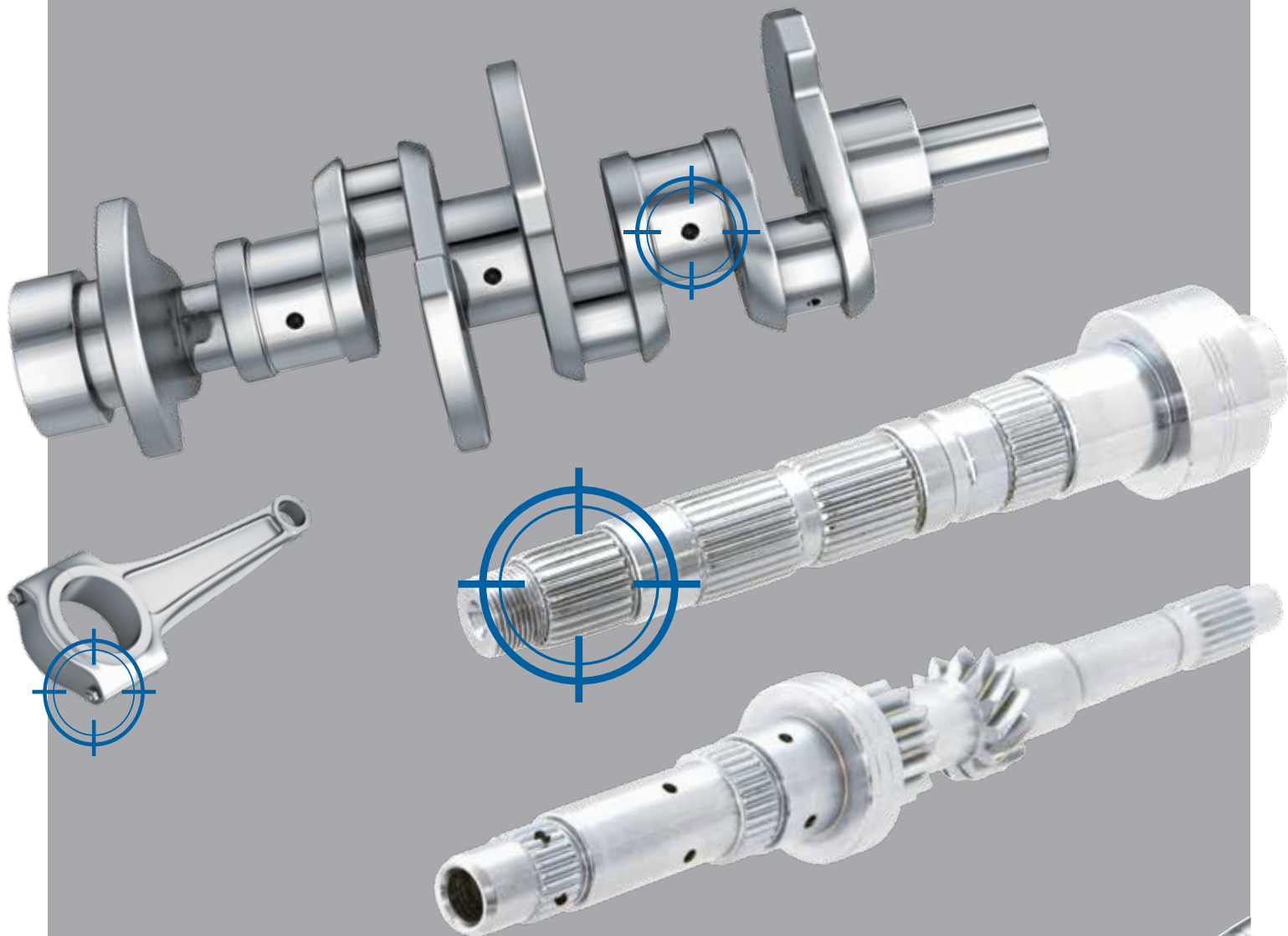


An essential element for mass production line. OSG can provide tailored specifications to accommodate special processes, machines and various workpieces.

量产线中不可或缺的专用工装夹具。OSG可以结合产品形状，机械，加工工序进行专业设计以及生产。

Automotive Solutions

汽车加工方案

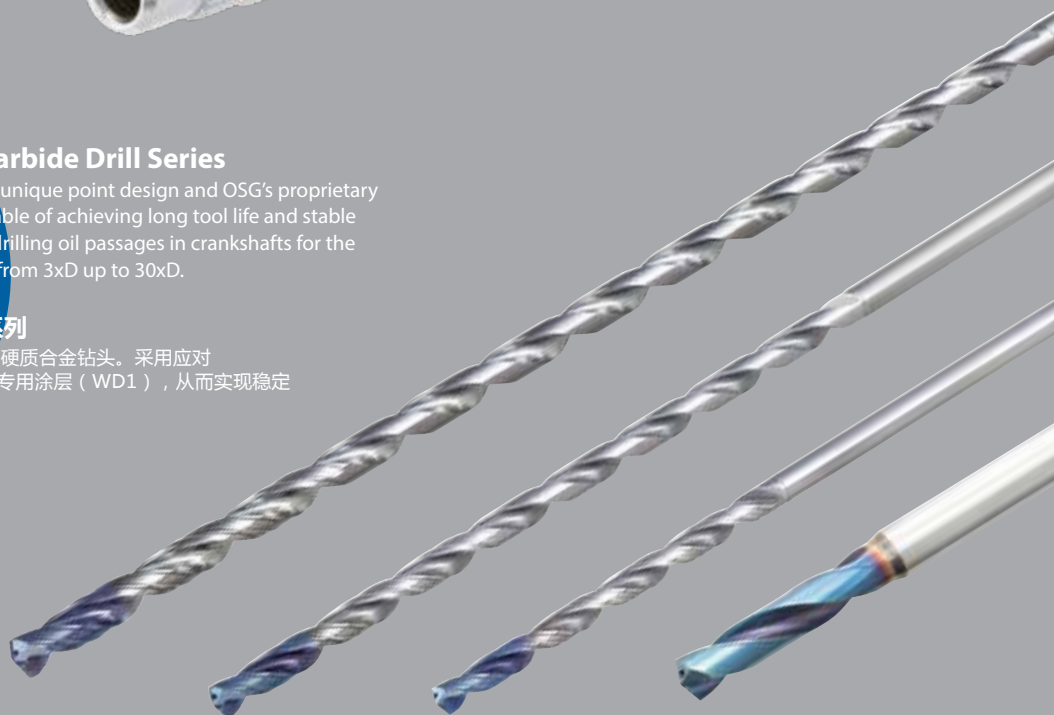


WDO Coolant-Through Carbide Drill Series

Featuring a new carbide substrate, a unique point design and OSG's proprietary WDI® coating, the WDO series is capable of achieving long tool life and stable machining. It is commonly used for drilling oil passages in crankshafts for the automotive industry. Sizes available from 3xD up to 30xD.

硬质合金内冷油孔WDO钻头系列

最适于曲轴等钢件的孔加工用内冷油孔硬质合金钻头。采用应对（3D-30D）不同孔深的最适刃形以及专用涂层（WD1），从而实现稳定的长寿命。



CTCP115, 125 Turning Tool

CTCP115, 125硬质合金涂层车刀



Features CTCP115,125 grade materials designed for stable and efficient machining of steels. OSG is an authorized distributor of Ceratizit cutting tools in Japan.

CTC115,125车刀的特点在于能实现稳定和高效的钢材加工。在日本，OSG是Ceratizit的特约经销商。

S-XPF Forming Tap

S-XPF挤压丝锥



High performance forming taps for applications up to 35 HRC and large diameter up to M45. Available with or without oil holes.

S-XPF可以加工以往产品无法触及的大径（~M45）以及高硬材（~35HRC），另外，MQL情况下的挤压加工也得以实现。产品系列包括，带内冷，不带内冷，长柄系列。

Combo Drill (Special)

复合加工刀具（非标品）



A versatile tool that is capable of handling various machining processes, including drilling, chamfering, boring, etc. Greatly simplifies tool management and reduce cycle time.

一把刀具可以完成钻孔+倒角+镗孔等复合加工。从而集结工序缩短节拍耗时。

T-Slot End Mill (Special)

T型槽铣刀（非标品）



Special tool for T-slotting. Unique end mill geometry designed to handle a wide variety of shapes and applications.

T型槽铣刀是专用于T型槽加工的刀具。其独特的几何设计能应对各种加工形状和加工应用。

CBN Twist End Mill (Special)

CBN铣刀（非标品）



Designed for high hardness materials. High precision and long tool life.

CBN铣刀适用于超高硬度的材料，能实现高精度和长工具寿命。

Rack Dies

搓丝板



Mainly used for automotive parts production. Rack type rolling dies are for fast, large volume production of parts with involute splines.

主要用于汽车零部件的渐开线花键，齿轮，螺纹，蜗杆等高精度滚轧加工。

Fillet Roller

圆角滚轮



Tool used to create mirror finish on corners of the crankshaft and to enhance the strength of the shaft.

对汽车等曲轴的圆弧角部分进行镜面精加工用工具，从而达到强化曲轴的目的。

Form Gauge

量规

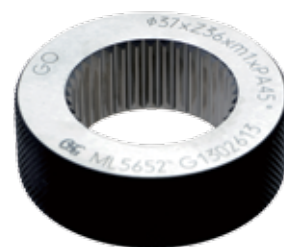


For measuring hole concentricity of engine blocks. Can be tailored made to accomodate special specifications.

此款量规用于测量发动机组的孔同轴度，可以结合产品式样，精度进行专用设计。

Involute Spline Ring Gauge

渐开线花键环规



For inspecting the accuracy of spline shafts. Great cost performance and can be customized. Plug gauges and mandrels are also available.

用于检查花键轴的精确度，它拥有较高的性价比并且能按客户的要求定制。

Energy & Heavy Industry Solutions

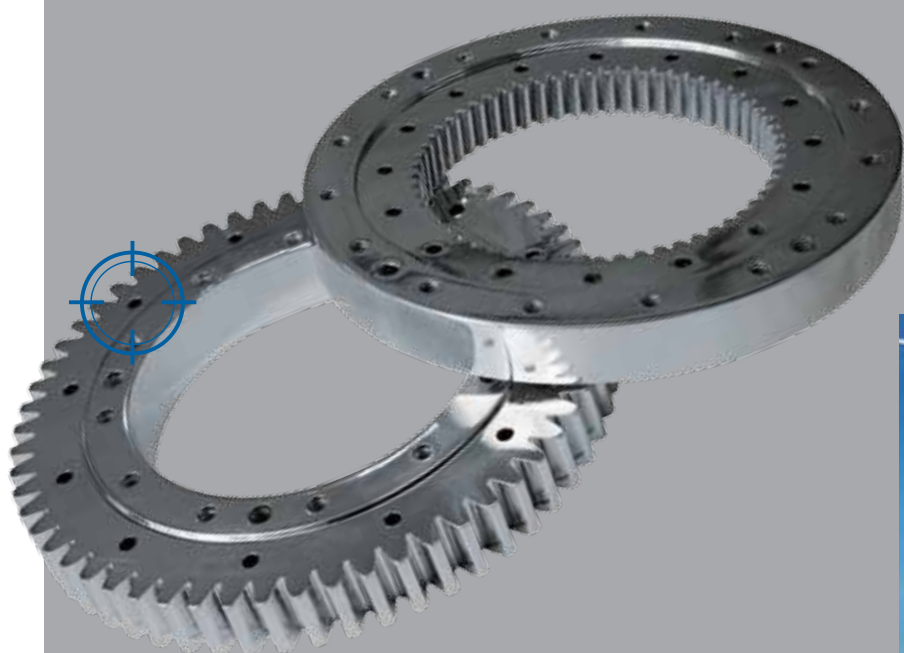
能源，重工·建机行业解决方案



The energy industry is growing, and each day brings a new challenge. Renewable energy in particular, is a big global agenda. Needless to say, parts in this industry are just as big in size and are very expensive. Scrapping a part can easily jeopardize the bottom line. OSG is ready to overcome these obstacles with new innovative tooling specifically designed for this segment.

In addition to the energy sector, OSG also offers high performance tooling for manufacturers in the heavy industry. We have solutions for various materials and machining processes. At OSG, we know what is expected from today's manufacturers – consistent quality, reliable delivery, and maximum cost performance.

OSG正致力于在世界范围内不断成长的能源行业。我们会为大型零部件加工较多的能源行业以及重工·建机行业提供最适合的刀具及加工方案。为了以稳定的品质，快速的纳期，最优化的性价比来回应客户的期待，我们将努力开发刀具及加工技术。



Phoenix PAO Face Milling Cutter

Phoenix PAO面铣刀



Economical 8-corner per side (16 corners in total) specification. Best suited for machining large cast iron parts.

规格为经济性很好的8角型（共16个角）。最适合加工大型的铸铁工件。

TRS Mega Muscle 3-Flute Drill

TRS 硬质合金内冷油孔3刃钻



Patented geometry permits stable chip ejection. The result is over 2X faster than 2-flute drills and longer life.

采用新开发的沟槽形状（PAT.P），加工钢件非常优越。在加工钢·铸件时，其进给速度可以达到2刃钻的2倍，且寿命也能得到延伸。

EX-MT-GDR HSS Drill

EX-MT-GDR 高速钢钻头



TiN HSS coated drill for general application with morse taper shank. Suitable for lathe and multi-spindle specialized machines.

适于大型构造物的孔加工。即使在车床和专机上也能稳定安心的加工

Phoenix PXD Exchangeable Head Drill

Phoenix PXD可交换式刀头式钻头



Suitable for high performance, high precision large-diameter ($\Phi 14 \sim 25$) machining. Features OSG's proprietary WDI® coating for long tool life.

适用于高性能，高精度，大口径（ $\phi 14 \sim 25$ ）的加工。OSG专利的WDI涂层保证了工具的长寿命。

Phoenix P5D Indexable Drill

Phoenix P5D可转位式钻头



Features an economical 4-corner design and unique flute geometry to enable stable 5xD deep hole drilling in steel and stainless steel.

经济型的四角式样和特殊的槽型设计，使其能在铸铁和不锈钢工件上稳定加工5D的深孔。

VXL/HXL Spiral Fluted Tap

VXL/HXL大型零部件用螺旋槽丝锥



Designed to excel in any industry producing threads over 1/2" in diameter. Available in two styles for both vertical and horizontal applications.

大型零部件加工用大径螺旋槽丝锥。结合加工机设定为2中类型（M16 ~ 56）。

Thread Mill

螺纹铣刀



Premium sub-micrograin carbide thread mill designed for cast iron, steels, exotics and difficult to machine materials.

利用NC机械的螺旋进给对应螺纹加工。与切削丝锥相比，可以无须为切屑问题而烦恼。

FX-MG-CS Countersink

FX-MG-CS 硬质合金FX涂层三刃孔口倒角刀



TiAlN coated 3-flute carbide countersink designed for countersinking, deburring and chamfering. Long tool life in a variety of materials.

TiAlN涂层3刃硬质合金倒角刀是加工倒角用的刀具，其特点是良好的锋利性，少毛刺的加工面以及保证长寿命的FX涂层。

FX-LDS Starting Drill

FX-LDS 硬质合金FX涂层中心钻



Starting drill designed for high-speed, high precision processing of centering and counter sinks with long tool life.

中心钻适用于中心孔，倒角的加工。为高精度的孔加工提供铺垫。

The OSG Advantage

OSG的优势

OSG Academy

OSG研究所

The so-called "OSG's brains," where designing, testing, producing, and evaluating the latest cutting tool technology take place, are located at the OSG Academy. Housing over 40 of the latest CNC machining centers, along with OSG rapid prototype grinding machines, our engineering team strives to offer clients the best possible solution for their individual application needs.

这里也被誉为“OSG的大脑”，大量具有高技术性的工具在OSG研究所中进行设计、测试、生产和评估。这座数控中心已经成立了至少40年，并且拥有高速研磨的机械，我们的技术团队努力为客户提供最好最有效的、适用于个人案件的解决方案。



Design Center



Global Technology Center



Tailored Solution

解决方案的制定

OSG's marketing, development and manufacturing organizations work closely together to offer processing methods optimized for each customer's cutting environment. Our capabilities as a provider of total solutions for cutting tasks, including our own regrinding and coating operations, allow us to help customers to improve their productivity and reduce costs.

OSG的市场部、研发部和制造部在一起紧密地工作为了根据每个客户特殊的加工环境而制定最适合的加工方式。我们有能力为客户提供有关切削问题的整体解决方案，其中包括再研磨和涂层加工，这些都使得我们能帮助客户提高他们的加工效率，并节省成本。



Advanced Technology

先进的技术

OSG strives to provide total solutions for the pressing needs of its customers by supplying high added-value products and services based on its advanced technology. Already the global leader in taps, end mills and rolling dies, our goal is to become the world's number-one manufacturer of hole-making cutting tools. OSG will continue to use its proven technological capabilities to build customer confidence and enhance its reputation by creating tools that provide world-class quality and performance.

OSG通过提供高附加值的产品和富有高新技术的服务，来努力满足客户的所有的加工需求。作为在丝锥、铣刀和搓丝板方面的领导者，我们的目标是成为世界第一的孔加工工具的制造商。OSG将坚持使用其先进的技术来建立和客户的信任，并通过创新的、具有世界级质量和性能的工具来提升OSG的名望。



Gauge Calibration System

量规校准系统

OSG offers over 8,000 high precision and quality gauges to support our clients' threading operation and inspection. We also offer a calibration service for thread gauges and plain gauges with calibration certificate / traceable certificate (additional fee applies).

OSG除了提供超过8000种规格量规之外，也为在使用中的螺纹量规及普通量规进行校正服务。根据客户的需要，提供相应的检测证书及追踪报告。（需附加费用）

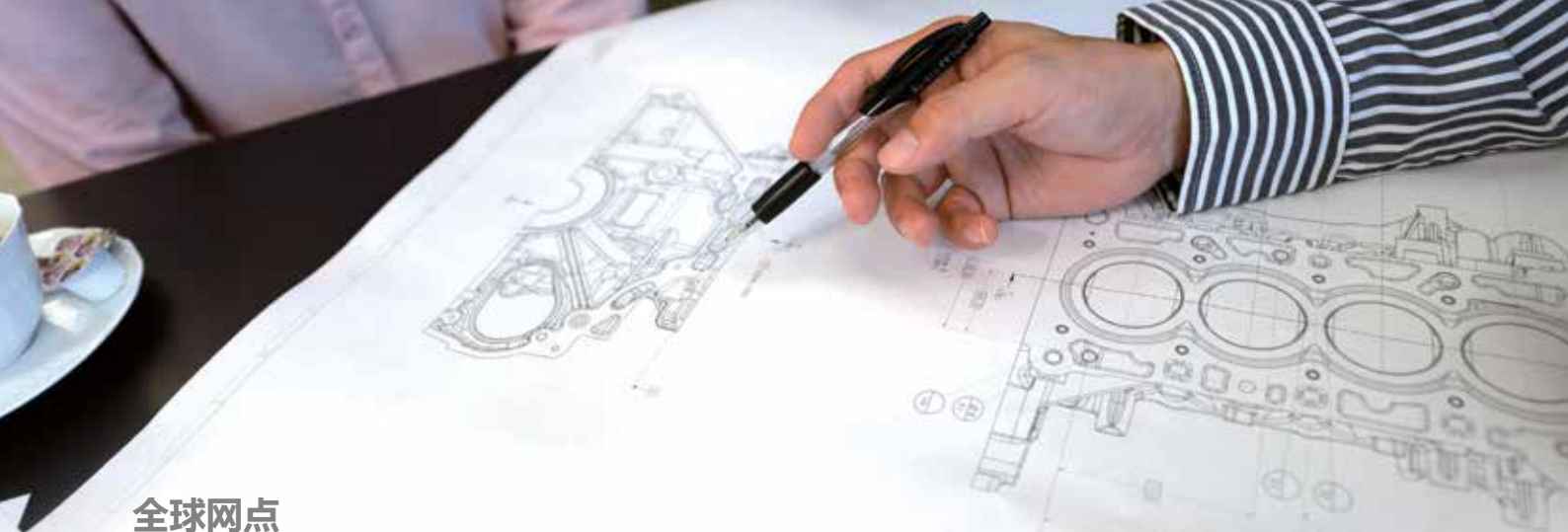


Tooling Reconditioning Services

刀具再研磨服务

Tool reconditioning services provided by the OSG Group restore used tools to the same sharpness as new products. Because even worn cutting tools and rolling dies can be restored to new condition, reconditioning is more economical for customers than the purchase of new tools. With regrinding facilities in 14 overseas countries, the OSG Group can respond to customer needs worldwide.

OSG可以提供的刀具再研磨再涂层服务。甚至是磨损的切削工具和搓丝板都能通过再研磨而恢复成新品。对于客户来说，和购买新的工具相比，再研磨具有更好的经济效应。OSG团队在14个海外国家拥有再研磨据点，来对应全球客户的需求。



全球网点

With production facilities located in 15 countries around the world, OSG has established a stable and efficient product supply system for the global market. In addition, our global network of sales offices in 30 countries is structured to both monitor customer needs in each country and also to supply products with the

shortest possible delivery lead time. We will continue to expand and enhance our services in support of our core products, such as regrinding and recoating, while working as closely as possible with our customers to provide comprehensive after-sales services and new cutting edge solutions.

自1968年向海外迈出第一步在美国芝加哥立足以来，OSG积极的在海外各地建立生产据点及销售据点。现在销售据点遍及30个国家，向全世界的客户提供刀具及技术服务。

另外，在日本有向客户加工方案提供特殊技术支援的专业小组，整合了全球客户生产的综合支援。综合的刀具提案请务必交给OSG吧。





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OSG Corporation

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