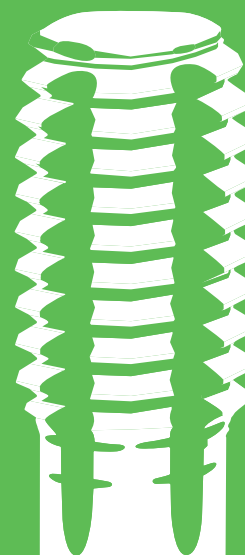




Gtag

低碳型产品

Low Carbon Products



Gtag



减少碳足迹 (CFP) 的同时， 可降低供应链的排放量

Reduction of supply chain emissions leads to reduced carbon footprint of products (CFP)

Gtag 是工具制造生产过程中减少CO₂排放量的低碳型产品

Gtag is a low carbon product that reduces CO₂ emissions during tool manufacturing

对应Scope 3类别1「购买的产品·服务」

Corresponds to Scope 3 Category 1 "Purchased Products and Services"

■ 为了实现碳中和 To achieve carbon neutrality

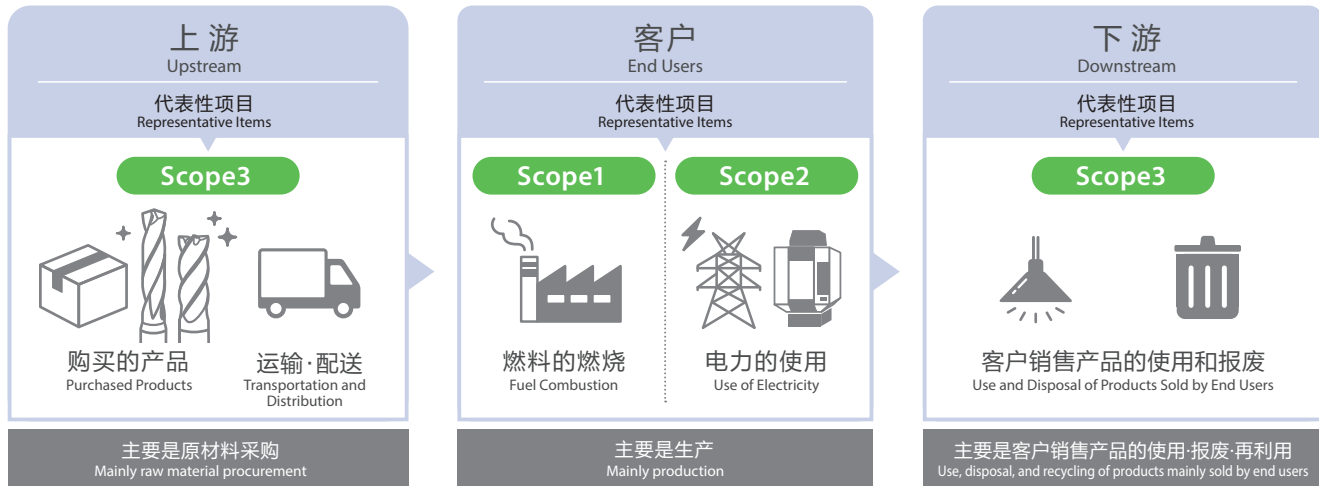
有必要在整个供应链中推进温室气体 (GHG) 排放量的削减。OSG提供长寿命化和高效率加工的产品，从而减少客户的Scope2消耗。此外，我们推荐Gtag作为与客户Scope3相当的工具制造时减少CO₂排放量的产品。

It is necessary to promote the reduction of greenhouse gas (GHG) emissions throughout the supply chain. OSG offers long tool life and high-efficiency machining solutions that lead to reductions in Scope 2 emissions for cutting tool users. In addition, we offer Gtag as a product that reduces CO₂ emissions during tool manufacturing, which corresponds to Scope 3 emissions for our customers.



每个产品的CO₂排放总量即为碳足迹 (CFP)

The total amount of CO₂ emissions per product is the carbon footprint of product (CFP)



资料来源：「脱碳门户」(环境部) (https://ondankataisaku.env.go.jp/carbon_neutral/words/carbon-footprint.html) 编辑制作
「绿色价值链平台」(环境部) (https://www.env.go.jp/earth/ondanka/supply_chain/gvc/estimate.html) 编辑制作

Created based on the following sources: "Decarbonization Portal" (Ministry of the Environment) (https://ondankataisaku.env.go.jp/carbon_neutral/words/carbon-footprint.html) and "Green Value Chain Platform" (Ministry of the Environment) (https://www.env.go.jp/earth/ondanka/supply_chain/gvc/estimate.html)

■ 帮助减少切削工具CO₂的排放量 To help reduce CO₂ emissions from cutting tools

选择高性能的Gtag (低碳型产品)

Selection of high performance Gtag (low carbon products)

Scope 3 购买的产品
Purchased Products

通过购买·使用Gtag，可减少CO₂的排放量
Reduce CO₂ emissions by purchasing and using Gtag products

Scope 2 用电量
Electricity Usage

通过刀具的长寿命化和高效率加工来提高生产率，可以实现减少用电量
Reductions can be achieved by improving productivity through longer tool life and highly efficient machining

扫一扫
查看其他可减少CO₂排放量的环保型产品
Scan for other environmentally friendly products that can reduce CO₂ emissions



Gtag Scope3 CO₂排放量减少的案例

Examples of Scope 3 CO₂ emission reduction

采用独特的新制造方法，通过减少制造时的耗电量，从而减少CO₂排放量

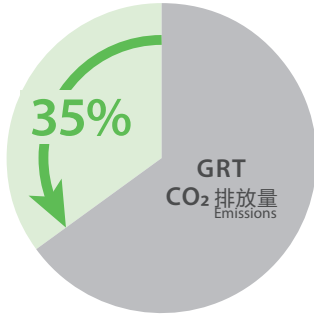
CO₂ emissions are minimized by reducing power consumption during manufacturing through the adoption of a unique new manufacturing method

GRT 高性能·低碳型挤压丝锥

High-performance & Low-carbon Forming Tap

例) M6×1制造时
CO₂排放量的减少率

Example) Comparison of reduction in CO₂ emissions during manufacturing of M6×1 (A#)

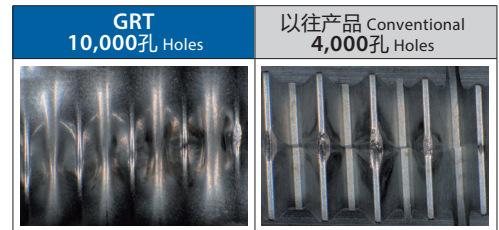


与以往产品相比 减少35%
35% reduction versus conventional product

加工数据 Cutting Data

· 优良的耐久性 Excellent durability

使用工具 Tool	GRT M6×1 2P
加工材料 Work Material	S45C
底孔 Drill Hole Size	φ 5.52×20m (通孔) Through
攻丝长度 Tapping Length	12mm
切削速度 Cutting Speed	15m/min (796min ⁻¹)
切削油剂 Coolant	水溶性切削油剂 无氯 20倍 Water-soluble Chlorine-free (5%)
使用机械 Machine	立式加工中心 (BT30) Vertical Machining Center

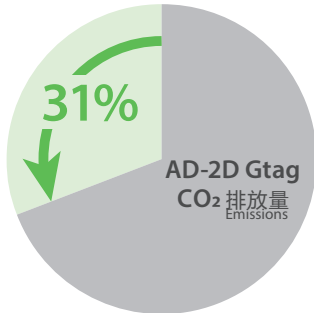


AD-2D Gtag 低碳型硬质合金钻头

Low-carbon Carbide Drill

例) 外径φ10制造时
CO₂排放量的减少率

Example) Comparison of reduction in CO₂ emissions during manufacturing of outer diameter φ10

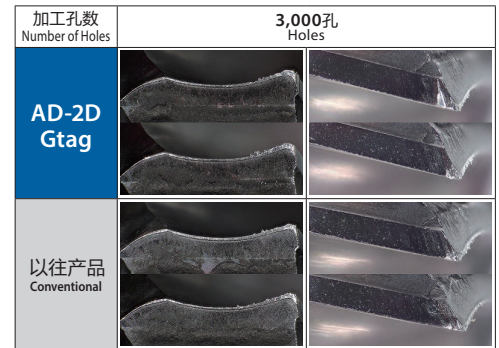


与以往产品相比 减少31%
31% reduction versus conventional product

加工数据 Cutting Data

· 确保与以往产品同等的性能 Same performance as conventional product

使用工具 Tool	AD-2D Gtag φ6
加工材料 Work Material	SCM440 (30HRC)
切削速度 Cutting Speed	70m/min (3,715min ⁻¹)
进给速度 Feed	670mm/min (0.18mm/rev)
加工深度 Depth of Hole	12mm (通孔) Through
切削油剂 Coolant	水溶性切削油剂 无氯 20倍 Water-soluble Chlorine-free (5%)
使用机械 Machine	卧式加工中心 (HSK-A63) Horizontal Machining Center

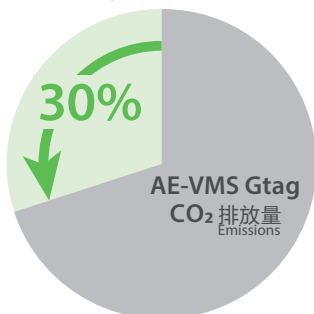


AE-VMS Gtag 低碳型硬质合金抗振铣刀

Low-carbon Anti-Vibration Short Carbide End Mill

例) 外径φ10 制造时
CO₂排放量的减少率

Example) Comparison of reduction in CO₂ emissions during manufacturing of outer diameter φ10

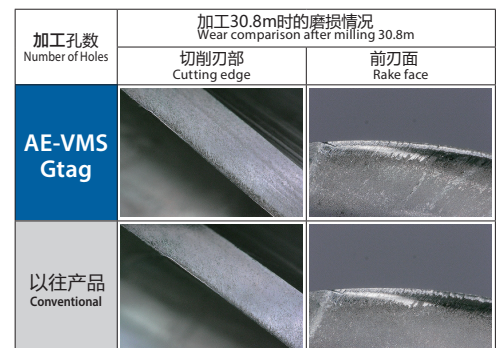


与以往产品相比 减少30%
30% reduction versus conventional product

加工数据 Cutting Data

· 确保与以往产品同等的性能 Same performance as conventional product

使用工具 Tool	AE-VMS Gtag φ10
加工材料 Work Material	S50C (30HRC)
切削方法 Milling Method	槽铣 Slot Milling
切削速度 Cutting Speed	100m/min (3,200min ⁻¹)
进给速度 Feed	840mm/min (0.066mm/t)
切削深度 Depth of Cut	ap=10mm
切削油剂 Coolant	气冷 Air-blow
使用机械 Machine	立式加工中心 (BT40) Vertical Machining Center



GREEN TAP GRT 高性能·低碳型挤压丝锥
High-performance & Low-carbon Forming Tap

- 无切屑加工，提高生产率
Improves productivity with zero cutting chips

尺寸规格 Lineup

螺纹种类：M

Thread Type

M1×0.25 ~ M6×1



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查看样本
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AD-2D Gtag 低碳型硬质合金钻头
Low-carbon Carbide Drill

- 对应广泛的加工材料
Suitable for a wide variety of work materials

尺寸规格 Lineup

φ5 ~ φ10



扫一扫
查看样本
Scan for catalog



AE-VMS Gtag 低碳型硬质合金抗振铣刀 短刃型
Low-carbon Anti-Vibration Short Carbide End Mill

- 采用不等导程、不等分割，实现稳定、高效率加工
Unequal spacing of teeth and variable-lead geometry enables stable and high efficiency milling

尺寸规格 Lineup

平头型 Square Type

φ3 ~ φ12



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欧士机（上海）精密工具有限公司

OSG Corporation

Http://www.chinaosg.com

OSG 免费技术热线 **400 888 2086**
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E-mail:business@chinaosg.com



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