CARBIDE LINE

各种应用状况的最佳性能

Maximum performance for every application
**Optimal machine capacity usage**

Machining costs are a crucial cost driver in automotive production. For the most efficient use of modern gear cutting machines, CarbideLine-S hobs (solid carbide tools) provide the ideal system of cutting material, macro- and microgeometry for every application – exactly yours.

**Safety in series**

Tool changes are essential, but nonproductive and a certain risk. The high precision of LMT Fette CarbideLine-S shank type hobs ensure a consistent high workpiece quality. The high performing cutting material leads to a considerable reduction of tool changes.

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**Tap the full cost saving potential**

Every saved second in production decreases the machining costs and thereby the costs-per-part significantly. This is an easy way to obtain big savings in mass production.

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**Your production benefits**

- Increase productive time
- Reduce costs-per-part

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**CarbideLine-S**

- Machine costs competitor
- Tool costs competitor
- CarbideLine-S tool costs

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**Comparison**

LMT Fette LC830Q (AL8 PRO) in comparison to competitor

- Main time: -14% *
- Tool life quantity: +11% *

LMT Fette hobs optimized regarding cutting material, macro- and microgeometry
CARBIDELINE-H

性能标杆
The new performance benchmark

性能卓越
CarbideLine-H（硬质合金混合刀具）采用超精密微粒结合式硬质合金刀头，以相同的尺寸实现更多的有效齿数，从而实现更加优良的加工性能，显著减少加工时间，提高刀具寿命。

The new definition of performance
CarbideLine-H (Hybrid Carbide Tools), made of a steel body and joint carbide tips, allow a higher number of effective teeth on identical dimensions. Thereby a remarkably smooth machining process is achieved, the machining time is reduced considerably and the tool life increases.

安全可靠
与可交换刀片刀具相比，CarbideLine-H 的耐磨经过精密磨制，能够达到非常高的精度（AAA）——确保稳定加工高质量工作。

Safety through reliability
Compared to tools with Indexable Inserts the precision-ground profiles of CarbideLine-H reach much higher accuracies (AAA) – a consistent high workplace quality is ensured.

降低成本
降低单件成本对于实现成本节约越来越重要。CarbideLine-H 刀具拥有更多的有效槽数并采用先进材料，能够在大规模生产过程中有效加工降低生产成本的齿轮。

Cost-per-part reduction
Machine costs get more and more important to achieve cost-savings. Due to the high number of effective teeth and state-of-the-art cutting-materials CarbideLine-H tools are highly efficient for mass production in medium module range – exactly yours.

<table>
<thead>
<tr>
<th>CarbideLine-H 与 ICI 刀具对比</th>
<th>CarbideLine-H compared to ICI tool</th>
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<tr>
<td>有效齿数</td>
<td>No. of eff. teeth: 445</td>
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<td>加工成本</td>
<td>Machine costs: -42%</td>
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<tr>
<td>刀具成本</td>
<td>Tool costs: +95%</td>
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<td>CarbideLine-H 机床成本</td>
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<tr>
<td>CarbideLine-H 刀具成本</td>
<td>Tool costs CarbideLine-H</td>
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m7
Gears
No. of teeth: 42
齿宽 Material: C45
Workpieces: 26,000

m5 – m12
刀片性能
Insert performance

多样性带来灵活性
多功能铰刀或滚刀可以用于粗加工和精加工，具有基本性能或顶级性能的
CarbideLine-i（可转位硬质合金刀具）具备所有可转位硬质合金刀片刀
具理念。我们针对您的需求提供最佳解决方案——为您服务。

快速维修
可转位硬质合金刀具不但具有最高的
性能，而且其设计注重便捷、快速
维修。

刀片能够确保可用性
CarbideLine-i刀具可连接使用于加工
过程，切断磨损后可更换刀片。
可轻松更换为不同的硬质合金刀片。

高精度满足可靠性要求
我们通过LC5036H提供最理想的切削材料，
耐磨损硬度合金、切削刃准备以及高精度涂层确保稳定的热稳定性等性能。

多功能铰刀设计之外，最优切屑槽设计对于大面积切削非常重要。
基于3D模拟手段，我们优化了最佳设计方案。

Flexibility made by diversity
Gashing cutters or holes for roughing and finishing operations, for basic or top performance – CarbideLine-i (Indexable Carbide Tools) unite all tool concepts with indexable carbide inserts. We offer the right solution for your needs – exactly yours.

The fast pt stop
Besides maximum performance the design of Indexable Carbide Tools focuses on an easy and fast assembly.

Inserts secure availability
The CarbideLine-i tools allow for continuous use in the machining process. After cutting edge wear the insert is replaced. Easy change to different carbide inserts is possible.

对称生产的益处
Your production benefits
- 减少停机时间 Reduce non-productive time
- 提高过程可靠性 Increase production reliability
- 提高生产率 Increase productivity

Performance meets reliability
With LC5036H we offer the optimal cutting material. The ultrafine grain carbide, the cutting edge preparation and a high performance coating ensure best-in-class process stability and performance.

Enabling top efficiency
Besides the design of the ideal cutting edge, the design of an optimal chip gullet is important for big chip volumes. Based on a 3D simulation we define the best design.
Safety for your production
A consistent tool quality is the most important requirement for steadily high machine output. Therefore LMT Fette offers service over the whole tool life cycle. Consistent costs per part and quality are assured.

Knowledge and availability
A reliable, flexible tool service process combined with short lead times enable a reduction of in-process inventory. The complete documentation of the tool life cycle gives useful information for specific optimization by our application engineers on your site.

The partner in globalization
Consistent processes guarantee a first-class reconditioned tool.
A promise of worldwide quality for your hobs – exactly yours.

Your production benefits
- High quality and performance level
- Expanding shared know-how
- Extended tool-life-cycle