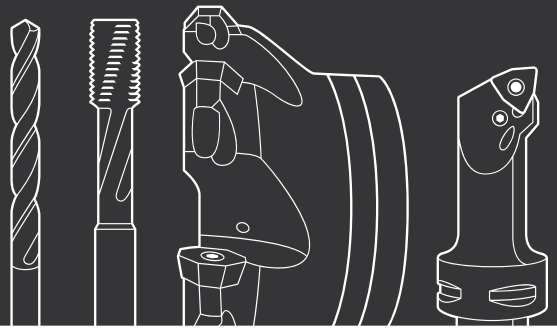
高效刀具及数字化解决方案

瓦尔特（无锡）有限公司



1919
Walter

1890
Titex

1919
Prototyp

1943
Modern Corporation

将近 400 年的经验积累

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化繁为简

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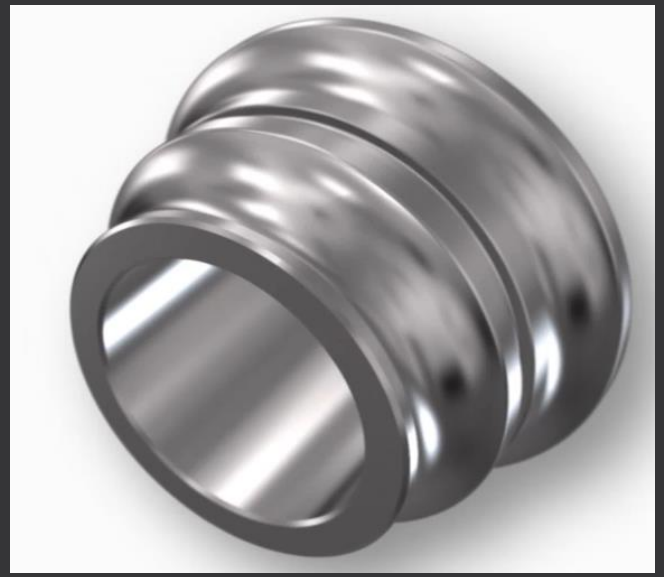
数字化解决方案-Walter GPS



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数字化解决方案-Walter GPS

如何选择刀具?

如何预估成本?

切削参数如何选择?

如何预估寿命?

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数字化解决方案-Walter GPS

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Walter GPS是一款可以帮助你找到最合适的刀具，满足你对加工效率/单价成本需求的刀具导航软件！

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手机端-Walter GPS

登录：

gps.walter-tools.com

IOS

安卓

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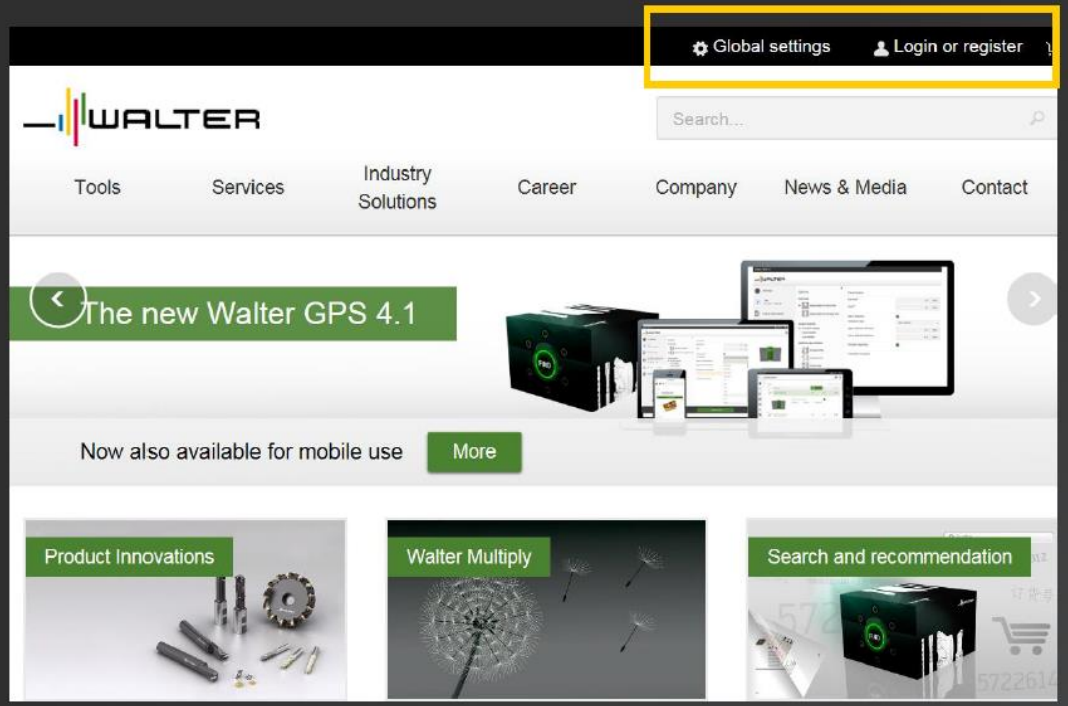
电脑端-Walter GPS

www.walter-tools.com



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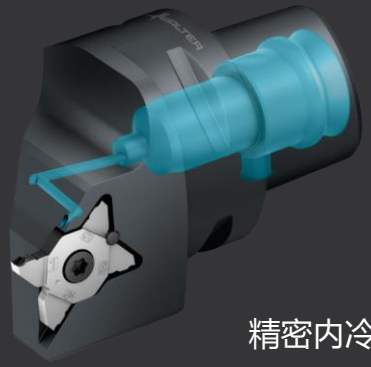
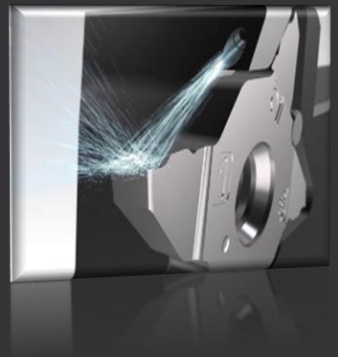
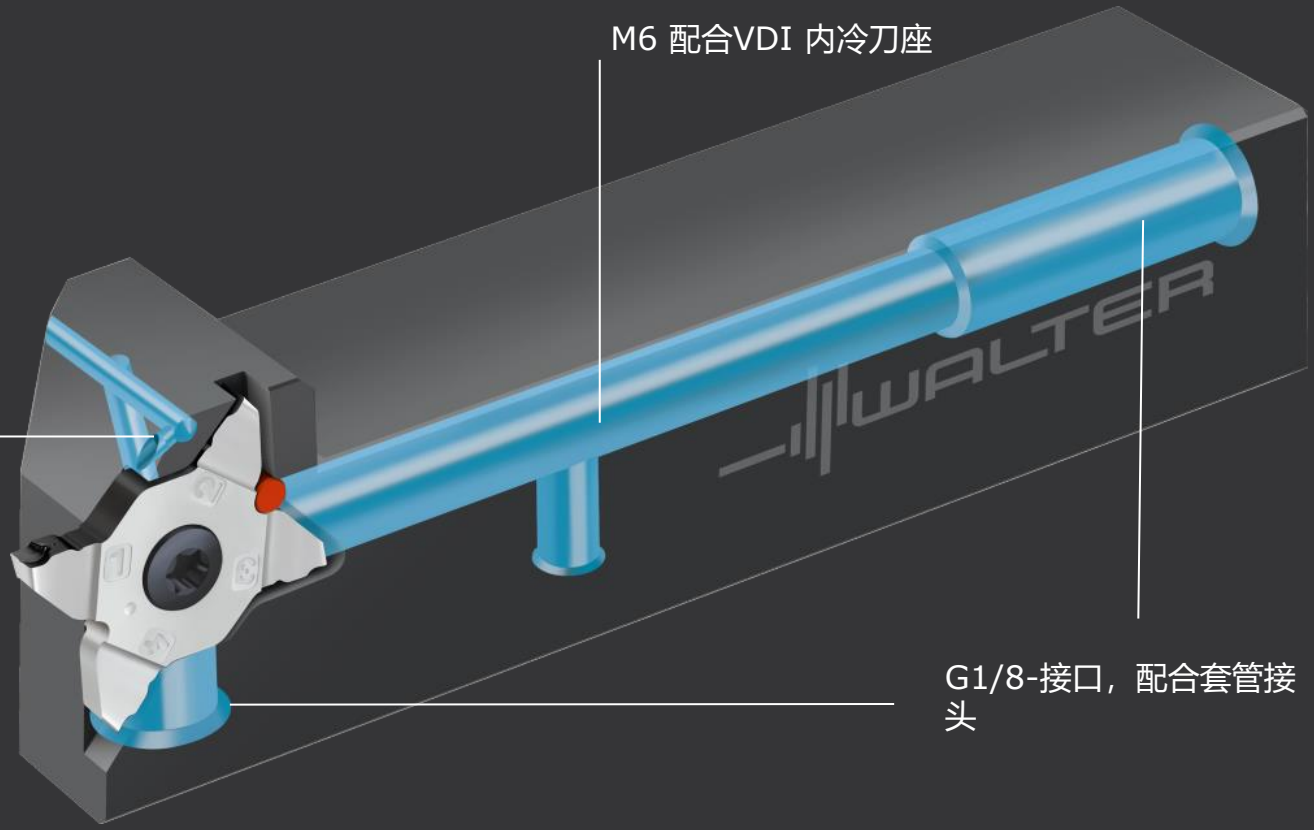
Walter 高效槽刀
精密内冷四刃槽刀







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高效解决方案

工件:	螺母		
材料:	1.4404 / X2CrNiMo17-12-2 316L		
机床:	Traub TNX 65/42		
	C3		
	Power	[kW]	24
	N_{max}	[min^{-1}]	5 000
工序:	切槽		

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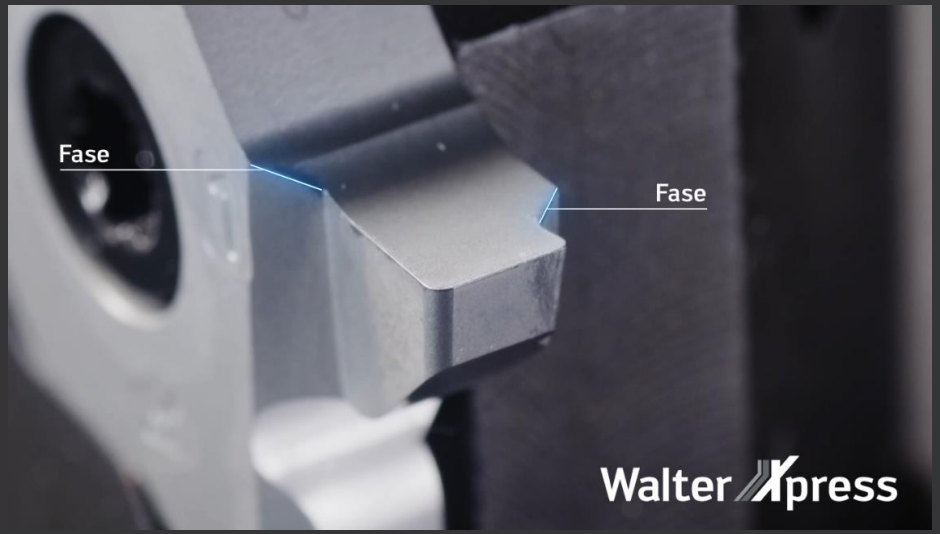
Walter 高效槽刀
非标速致： 一步成型

Walter Xpress



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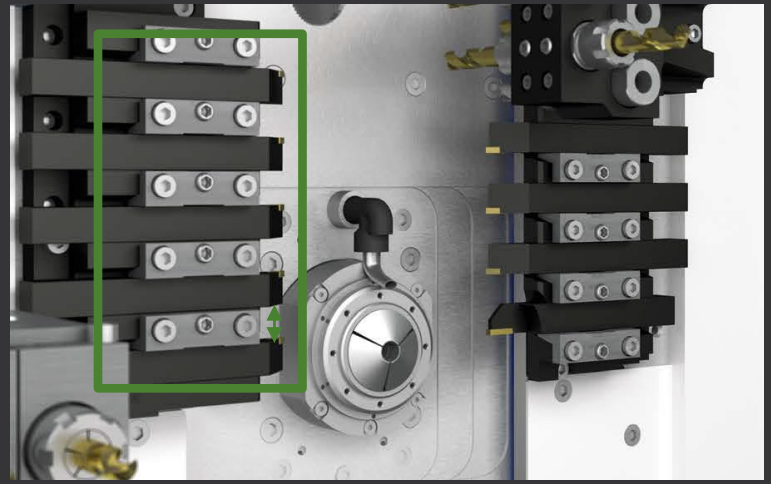
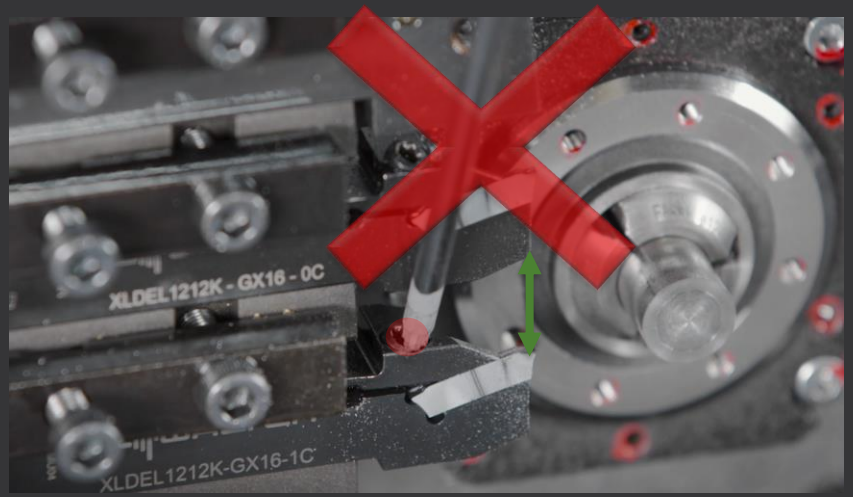
Walter DX18槽刀
小零件高效加工

- 走芯机，刀杆布置紧凑，空间狭窄；
- 如何实现快速，方便换刀片？





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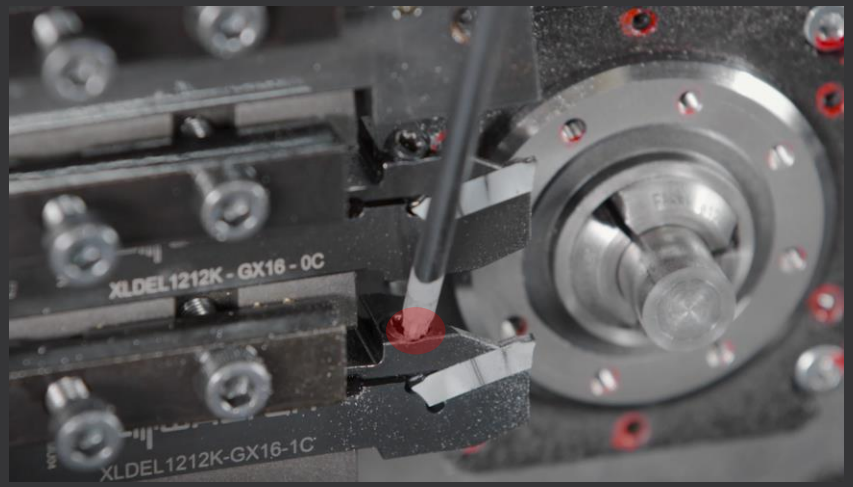
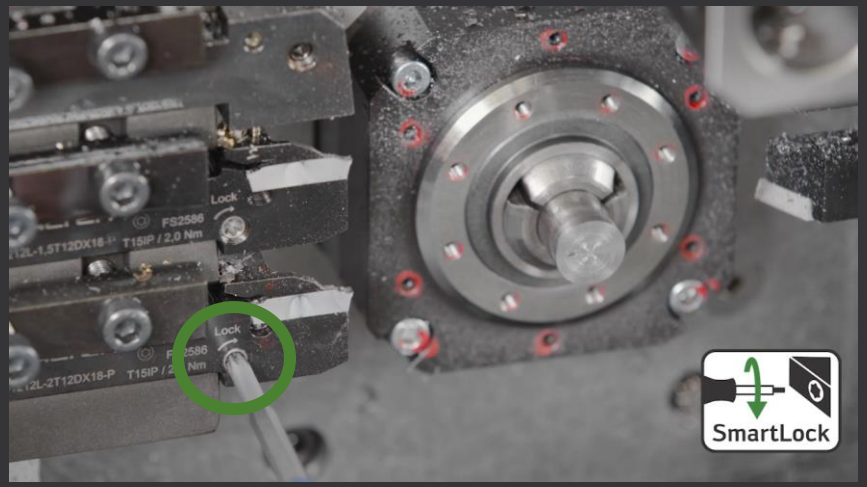
Walter DX18槽刀

安装受限



- 上平面锁紧机构
- 无法操作

操作方便



- »SmartLock«
- 侧面锁紧，完美解决

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Walter DX18槽刀
新型锁紧机构

SmartLock

SmartLock
- 快捷操作
- 锁紧稳定

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瓦尔特“金虎”新材质
WKP35G
WMP45G

Tiger·tec® Gold

金虎技术新材质

表面光滑，摩擦系数低

刃口强度高
工艺可靠性好

最新涂层技术
效率更高寿命更长

金色涂层
易于辨别刀片磨损

Tiger·tec® Gold

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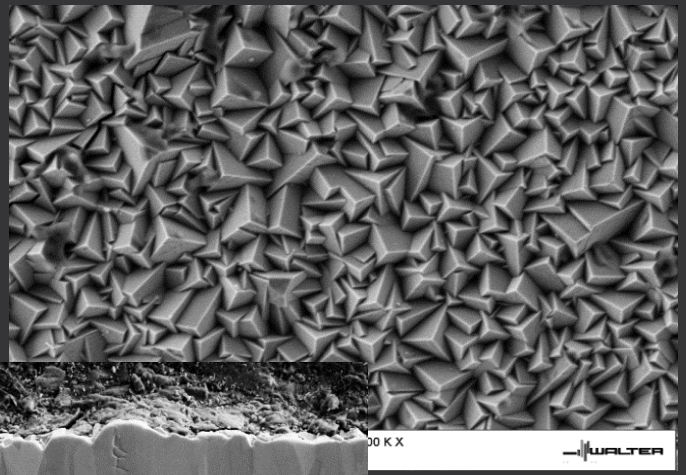
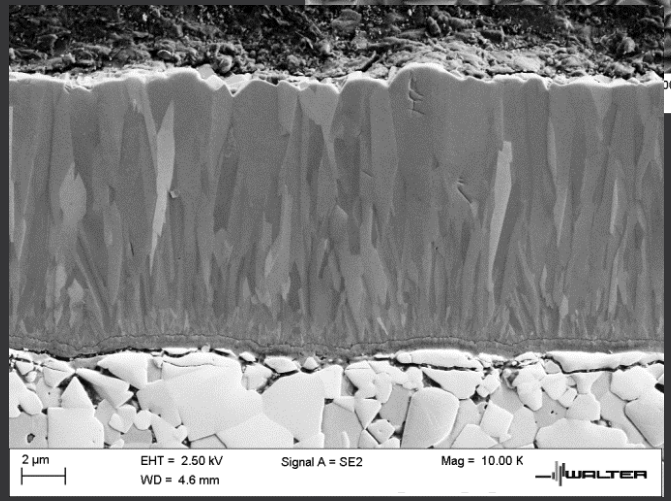
第四代新技术：金虎涂层技术

超低压-CVD涂层：

- CVD-TiAlN
- 更硬
- 压应力
- 晶粒优化的TiN表层
- 拥有5项专利





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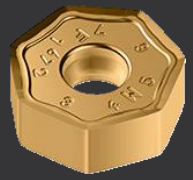
Tiger·tec® Gold 金虎刀片

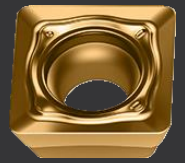
Walter BLAXX (黑锋侠铣刀)

LNHU...-L55T

LNMX...-F27T

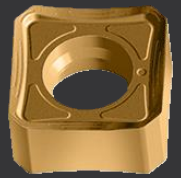

XNMU...-F67

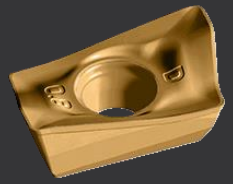
M4000铣刀


SDMT...-D57

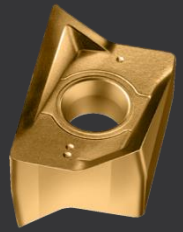
LDMT...-F57

Xtra·tec®系列铣刀


SNMX...-F57


ADMT...-D56

XN.F 906


LNGX13...

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加工案例

工件名称:	航空航天零部件
工件材料:	GH4169(镍基合金)
材料DIN 标准:	...
硬度:	280HB
机床:	
功率:	... KW
主轴接口:	BT50
立式/卧式:	立式
冷却方式:	内冷
试刀工序:	粗铣型腔

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刀具照片 对比：

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加工参数

效率：+100%

原使用刀具		
刀体型号	圆刀片铣刀	
刀片型号	RPHT1204M0T-6-M08 XXXX	
D_c:	80	[mm]
Z:	7	
v_c:	30	[m/分钟]
f_z:	0.25	[mm]
v_f:	240	[mm/分钟]
a_p:	0.5-0.75	[mm]
a_e:	4	[mm]
冷却方式	内冷	
金属去除率 Q	237	cm^3/min

瓦尔特新方案		
刀体型号	F2334.B27.080. 圆刀片铣刀	
刀片型号	ROHX1204M0-XXX WMP45G	
D_c:	80	[mm]
Z:	7	
v_c:	60	[m/分钟]
f_z:	0.35	[mm]
v_f:	588	[mm/分钟]
a_p:	0.85	[mm]
a_e:	4	[mm]
冷却方式	内冷	
金属去除率 Q	479	cm^3/min

+100%

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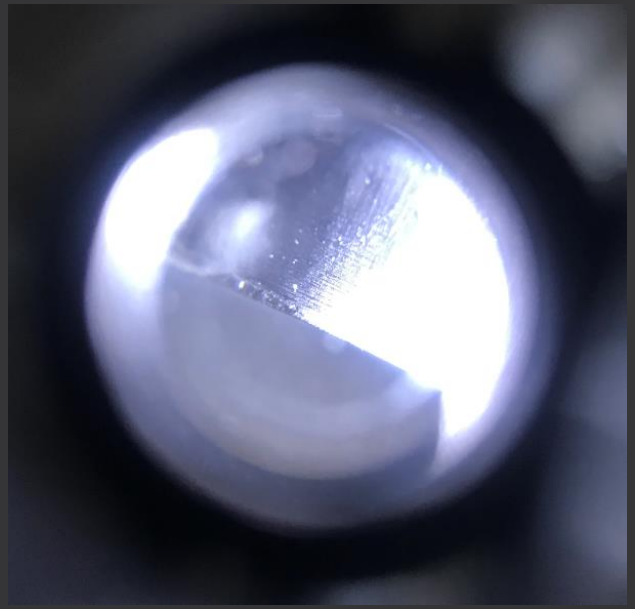
磨损照片对比

原使用刀具



瓦尔特金虎刀片

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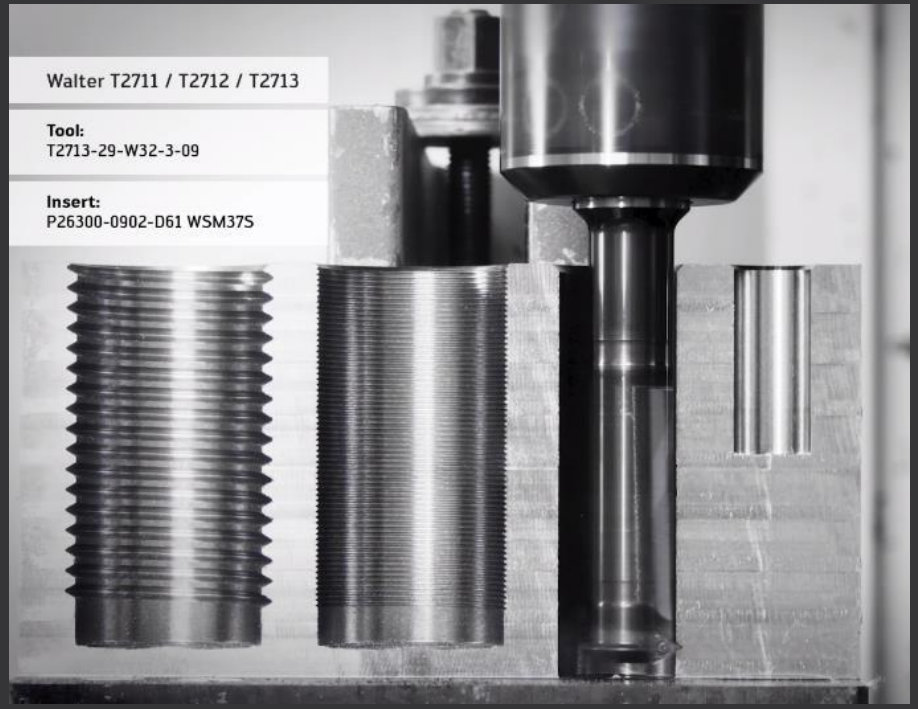
Walter 高效螺纹铣刀



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Walter 高效螺纹铣刀

多排齿的设计有效缩短加工时间

精准的齿间距*

* 每排齿的轴向间距必须是螺距的整数倍，这就表示部分螺距可以使用同一个刀体

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