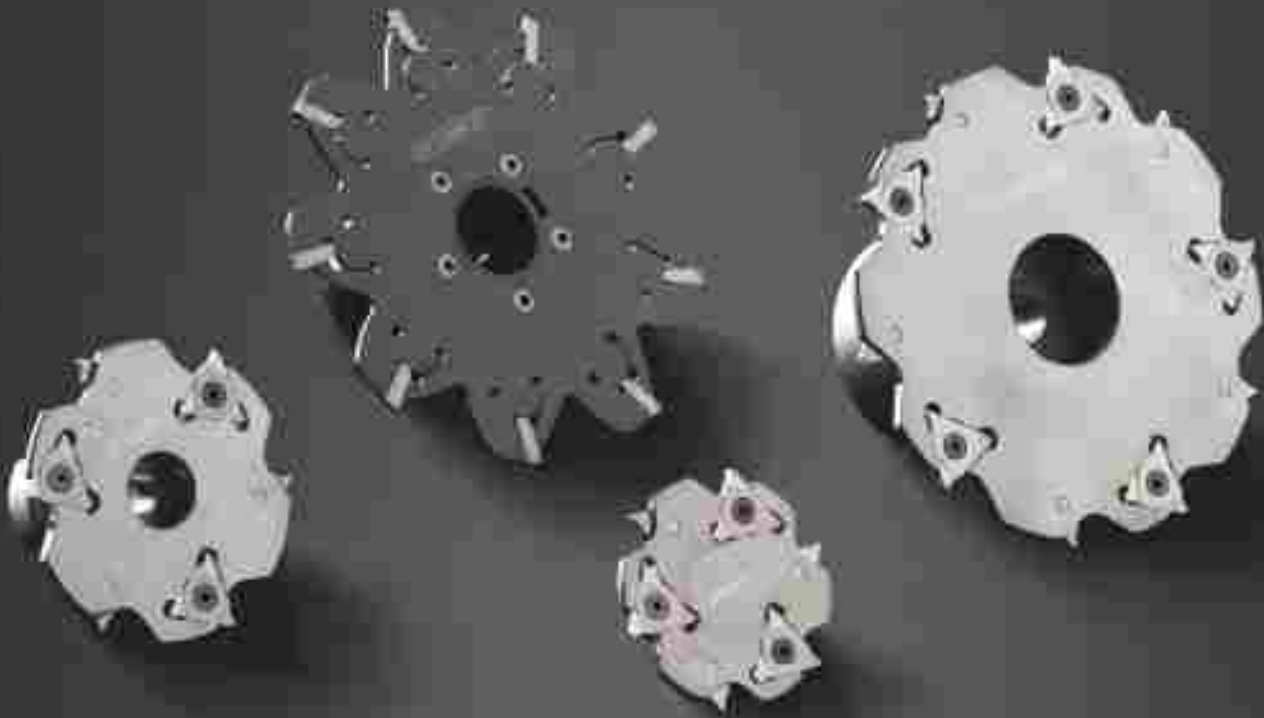


PH HORN PH



NEW

三面刃铣刀-扩展

M310, 383 和 M101

SLOT MILLING - RANGE EXPANSION

For M310, 383 and M101



不同之处： 更多可能

THE DIFFERENCE: MORE POSSIBILITIES

- **得益于内冷的更高性能**
Higher performance through targeted internal cooling
- **增加灵活性的大直径刀体**
Larger cutting diameter for increased flexibility
- **新的切削宽度,材质,槽型**
New cutting widths, grades and geometries

槽铣削

Slot Milling



螺纹锁紧铣刀

Screw-in cutter

M310

铣削深度可达
槽宽
切削刃 \varnothing

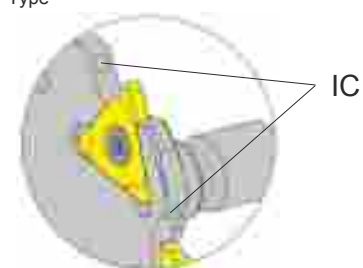
Depth of milling up to
Width of slot
Cutting edge \varnothing

20 mm
3-5 mm
50-63 mm

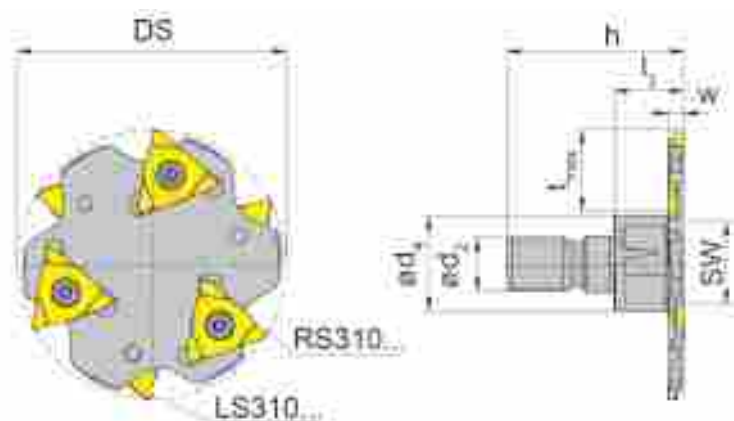


配合可转位刀片
for Indexable insert

型号 S310
Type



IK=内冷
IK=through coolant supply



图示=右手型
Picture = right hand cutting version

产品型号 Part number	Z	Ds	h	l_2	d_2	d_4	SW	w	t_{max}	右手型刀片 right hand insert	左手型刀片 left hand insert
M310.0050.M10.03.IK	6	50	33	13	M10	18	15	3	15	3x RS310.3017...	3x LS310.3017...
M310.0050.M10.04.IK	6	50	34	14	M10	18	15	4	15	3x RS310.4023...	3x LS310.4023...
M310.0050.M10.05.IK	6	50	35	15	M10	18	15	5	15	3x RS310.5028...	3x LS310.5028...
M310.0063.M12.03.IK	6	63	39	15	M12	21	17	3	20	3x RS310.3017...	3x LS310.3017...
M310.0063.M12.04.IK	6	63	40	16	M12	21	17	4	20	3x RS310.4023...	3x LS310.4023...
M310.0063.M12.05.IK	6	63	41	17	M12	21	17	5	20	3x RS310.5028...	3x LS310.5028...

按需提供更多尺寸
Further sizes upon request

尺寸单位: mm
Dimensions in mm

配件

Spare Parts

螺纹锁紧铣刀 Screw-in cutter	锁紧螺钉 Clamping Screw	TORX PLUS®扳手 TORX PLUS® Wrench
M310.0...03.IK	030.0324.T7P	T7PL
M310.0...04.IK	030.3535.T8P	T8PL
M310.0...05.IK	030.3543.T8P	T8PL

槽铣削

Slot Milling



芯轴刀柄式铣刀

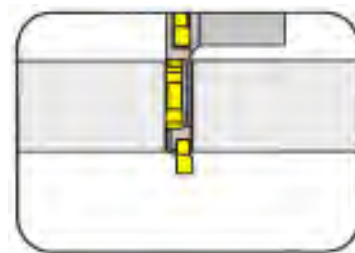
Arbor Mounted Cutter

M310

铣削深度可达
槽宽
切削刃 \varnothing

Depth of milling up to
Width of slot
Cutting edge \varnothing

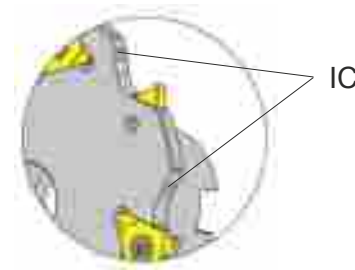
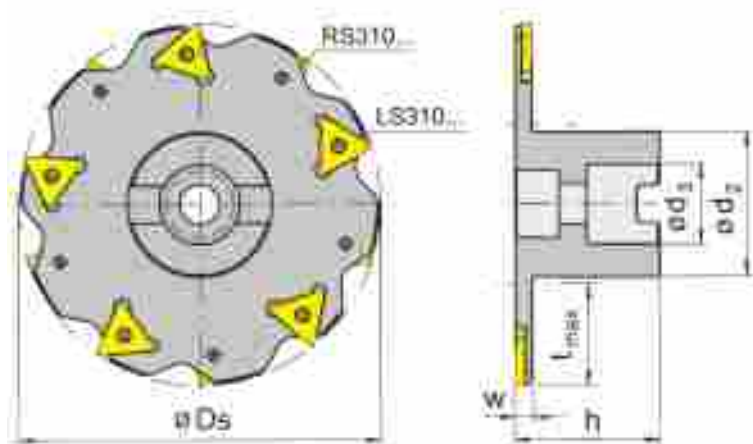
44 mm
3-5 mm
63-160 mm



孔(d3)带DIN138标准双键槽
Bore (d3) with cross keyway to DIN 138

配合可转位刀片
for Indexable insert

型号 S310
Type



IK=内冷
IK=through coolant supply

图示=右手型
Picture = right hand cutting version

产品型号 Part number	Z	Ds	t _{max}	h	d ₂	d ₃	w	右手型刀片 right hand insert	左手型刀片 left hand insert
M310.0063.16.03.IK	6	63	17.5	35	32	16	3	3x RS310.3017...	3x LS310.3017...
M310.0063.16.04.IK	6	63	17.5	35	32	16	4	3x RS310.4023...	3x LS310.4023...
M310.0063.16.05.IK	6	63	17.5	35	32	16	5	3x RS310.5028...	3x LS310.5028...
M310.0080.16.03.IK	8	80	25.0	40	28	16	3	4x RS310.3017...	4x LS310.3017...
M310.0080.16.04.IK	8	80	25.0	40	28	16	4	4x RS310.4023...	4x LS310.4023...
M310.0080.16.05.IK	8	80	25.0	40	28	16	5	4x RS310.5028...	4x LS310.5028...
M310.1100.27.03.IK	10	100	25.0	50	48	27	3	5x RS310.3017...	5x LS310.3017...
M310.1100.27.04.IK	10	100	25.0	50	48	27	4	5x RS310.4023...	5x LS310.4023...
M310.1125.27.03.IK	12	125	37.5	50	48	27	3	6x RS310.3017...	6x LS310.3017...
M310.1160.40.04.IK	16	160	44.0	50	70	40	4	8x RS310.4023...	8x LS310.4023...

按需提供更多尺寸
Further sizes upon request

尺寸单位: mm
Dimensions in mm

配件

Spare Parts

芯轴刀柄式铣刀 Arbor Mounted Cutter	扳手 Allen Wrench	锁紧螺钉 Clamping Screw	TORX PLUS®扳手 TORX PLUS® Wrench	圆柱螺钉 Cylindrical screw	垫圈 Washer
M310.0063.16.03.IK	SW6,0 DIN911	030.0324.T7P	T7PL	8.25.912	
M310.0063.16.04.IK	SW6,0 DIN911	030.3535.T8P	T8PL	8.25.912	
M310.0063.16.05.IK	SW6,0 DIN911	030.3543.T8P	T8PL	8.25.912	
M310.0080.16.03.IK	SW6,0 DIN911	030.0324.T7P	T7PL	8.40.912	
M310.0080.16.04.IK	SW6,0 DIN911	030.3535.T8P	T8PL	8.40.912	
M310.0080.16.05.IK	SW6,0 DIN911	030.3543.T8P	T8PL	8.40.912	
M310.1100.27.03.IK	SW10,0 DIN 911	030.0324.T7P	T7PL	12.35.912	13.0.433
M310.1100.27.04.IK	SW10,0 DIN 911	030.3535.T8P	T8PL	12.35.912	13.0.433
M310.1125.27.03.IK	SW10,0 DIN 911	030.0324.T7P	T7PL	12.35.912	13.0.433
M310.1160.40.04.IK	SW10,0 DIN 911	030.3535.T8P	T8PL	20.40.7984	21.0.433

槽铣削

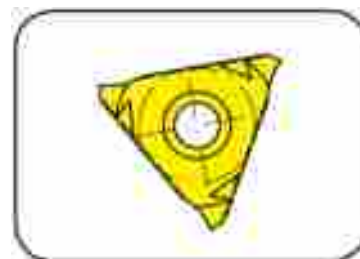
Slot Milling



可转位刀片

Indexable insert

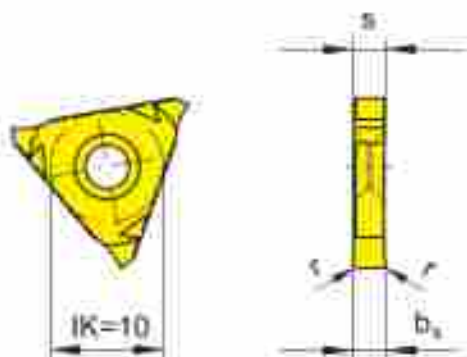
S310



槽宽	Width of groove	3-5 mm
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配合铣削刀杆
for Milling tool

型号 M310
Type



R=右手型-如图
R = right hand version shown

L=左手型
L = left hand version

产品型号 Part number	w	r	b _s	s	AS45	DD25	IG35	TF45	TN35
R/LS310.3017.00	3	0.15	1.7	1.6	▲/▲	▲/▲	▲/▲	▲/▲	▲/▲
R/LS310.4023.00	4	0.20	2.3	2.2	▲/▲	▲/▲	▲/▲	▲/▲	▲/▲
R/LS310.5028.00	5	0.20	2.8	2.7	▲/▲	▲/▲	▲/▲	▲/▲	▲/▲

- ▲ 库存 / on stock Δ 4周 / 4 weeks x 根据要求 / upon request
- 推荐 / recommended
- 次推荐 / alternative recommendation
- 不合适 / not suitable
- 非涂层 / uncoated grades
- 涂层 / coated grades
- 钎焊/金属陶瓷 / brazed/Cermet

尺寸单位：mm
Dimensions in mm
注明R或L型
State R or L version

P	●	-	-	●	●
M	●	-	●	●	●
K	●	-	-	●	●
N	○	●	-	●	●
S	●	○	●	●	●
H	-	-	-	-	-

硬质合金牌号
Carbide grades

槽铣削

Groove Milling



芯轴刀柄式铣刀

Arbor Mounted Cutter

383

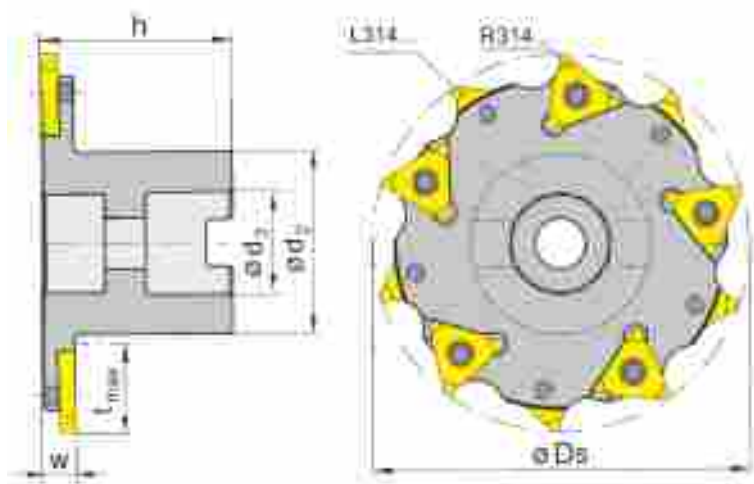


切槽深度可达
槽宽
切削刃 \varnothing

Depth of groove up to
Width of groove
Cutting edge \varnothing

44 mm
6-8 mm
125-160 mm

孔(d3)带DIN138标准双键槽
Bore (d3) with cross keyway to DIN 138



图示=右手型
Picture = right hand cutting version

配合可转位刀片
for Indexable insert

型号 314
Type

IK=内冷
IK=through coolant supply

产品型号 Part number	Z	Ds	t _{max}	h	d ₂	d ₃	w	右手型刀片 right hand insert	左手型刀片 left hand insert
383.0125.32.06	12	125	32	50	56	32	6	6x R314...	6x L314...
383.0125.32.08	12	125	32	50	56	32	8	6x R314...	6x L314...
383.0160.40.06	16	160	44	60	70	40	6	8x R314...	8x L314...
383.0160.40.08	16	160	44	60	70	40	8	8x R314...	8x L314...

按需提供更多尺寸
Further sizes upon request

尺寸单位：mm
Dimensions in mm

配件

Spare Parts

芯轴刀柄式铣刀 Arbor Mounted Cutter	锁紧螺钉 Clamping Screw	扳手 Allen Wrench	TORX PLUS®扳手 TORX PLUS® Wrench	垫圈 Washer	圆柱螺钉 Cylindrical screw
383.0125.32.06	5F.06T15P	SW12,0 DIN 911	T15PQ	17.0.433	16.35.7984
383.0125.32.08	5F.08T20P	SW12,0 DIN 911	T20PQ	17.0.433	16.35.7984
383.0160.40.06	5F.06T15P	SW17,0 DIN 911	T15PQ	21.0.433	20.40.912
383.0160.40.08	5F.08T20P	SW17,0 DIN 911	T20PQ	21.0.433	20.40.912

S101



刀片式铣刀

槽宽 1.6-3mm

Inserts for milling tools

width of groove 1,6-3 mm

槽铣削

Groove Milling



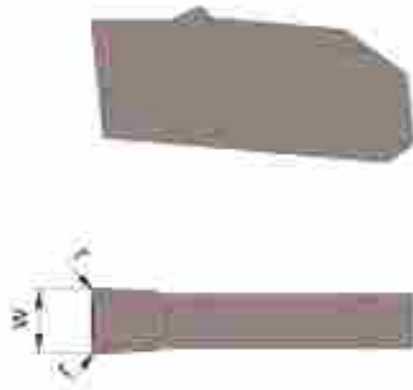
刀片
Insert

S101

带卷屑器
with chip forming



铣削宽度	Width of milling	2.5 mm
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配合铣削刀杆
for Milling tool

型号 M101
Type

产品型号 Part number	w	r	尺寸规格 Size	硬质合金牌号 Carbide grades	
				AS45	IG35
S101.0250.320	2.5	0.2	20	Δ	Δ
▲ 库存 / on stock Δ 4周 / 4 weeks x 根据要求 / upon request				P	•
● 推荐 / recommended				M	•
○ 次推荐 / alternative recommendation				K	•
- 不合适 / not suitable				N	○
■ 非涂层 / uncoated grades				S	•
■ 涂层 / coated grades				H	-
■ 钎焊/金属陶瓷 / brazed/Cermet					

尺寸单位：mm
Dimensions in mm

槽铣削

Groove Milling

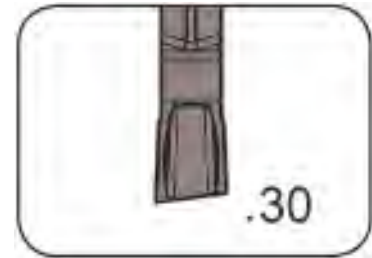


刀片
Insert

S101

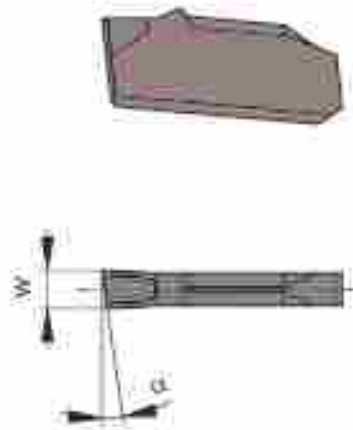
带卷屑器
with chip forming

铣削宽度	Width of milling	1.6-2.5 mm
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配合铣削刀杆
for Milling tool

型号 M101
Type



R=右手型-如图
R = right hand version shown

L=左手型
L = left hand version

产品型号 Part number	w	α	尺寸规格 Size	AS45
R/LS101.0816.30	1.6	8°	16	▲/▲
R/LS101.0820.30	2.0	8°	20	▲/▲
R/LS101.0825.30	2.5	8°	20	▲/▲

▲ 库存 / on stock Δ 4周 / 4 weeks x 根据要求 / upon request

● 推荐 / recommended

○ 次推荐 / alternative recommendation

- 不合适 / not suitable

■ 非涂层 / uncoated grades

■ 涂层 / coated grades

■ 钎焊/金属陶瓷 / brazed/Cermet

尺寸单位 : mm

Dimensions in mm

P	•
M	•
K	•
N	○
S	•
H	-

硬质合金牌号
Carbide grades

槽铣削 Slot Milling



刀片
Insert

S101

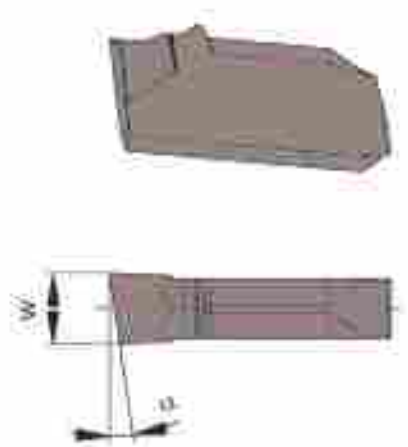
带卷屑器
with chip forming



铣削宽度	Width of milling	3 mm
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配合铣削刀杆
for Milling tool

型号 M101
Type



R=右手型-如图
R = right hand version shown

L=左手型
L = left hand version

产品型号 Part number	w	α	尺寸规格 Size	AS45
R/LS101.0830.FY0	3	8°	30	▲/▲

▲ 库存 / on stock Δ 4周 / 4 weeks x 根据要求 / upon request

● 推荐 / recommended

○ 次推荐 / alternative recommendation

- 不合适 / not suitable

■ 非涂层 / uncoated grades

■ 涂层 / coated grades

■ 钎焊/金属陶瓷 / brazed/Cermet

尺寸单位 : mm

Dimensions in mm

AS45	
P	●
M	●
K	●
N	○
S	●
H	-

硬质合金牌号
Carbide grades

