

GROOVING INSERT



断屑槽几何外观 Geometry appearance of chip breaker

MGM(G)N-M



- 特殊的断屑槽设计，通过使用一个中心断屑槽使得切削比常规平顶几何设计更为平衡
- 特殊的表面凸点设置，有助于外圆切削时切屑控制，可获得更为平滑的切屑流
- 断屑槽设计用于车削 & 切槽加工
- Unique chip breaker groove design, making cutting more balanced by using one central chip breaker groove instead of a conventional flat-end one.
- Special surface convex points, facilitate chip control during outer circle cutting and obtain smoother chip flow.
- The chip breaker groove is designed to be used for turning & grooving.

MGMN-G



- 特殊断屑槽设计使切屑变窄提高切屑流控制
- 切槽专用断屑槽设计
- The special design of the chip breaker groove narrows chip flow to improve its control.
- The chip breaker groove is designed especially for grooving.

MRMN-M



- 圆型几何设计用于仿形加工
- 可用于越程槽加工
- The circular design is used for profiling
- Can be used for grind undercut machining

车削和切槽 Turning and grooving

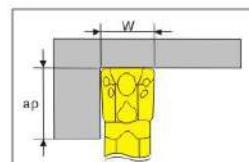
🕒 刀片的选择 Selection of insert

▶ 进给率

- 决定进给率最大值的因素要考虑到刀片的规格参数以及机床性能($F_{max}=W \times 0.075$)
- 最大进给率不能超过刀片R角半径;
- 在切槽加工中，排屑问题可通过小切深分步加工的方法解决

▶ Feed rate

- Take the insert specification and lathe performance into consideration when determining the max feed rate value ($F_{max}=W \times 0.075$)
- F_{max} shall not exceed the radius of R angle of the insert;
- During grooving, the problem of chip discharge can be solved by step-by-step machining with small cutting depth.

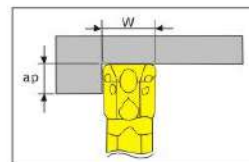


▶ 切深

- 最小切深不应小于刀片的刀尖半径
- 最大切削深度取决于机床的切削负载
- 采用不同形状刀片可以改善被加工件的偏差和间隙角

▶ Cutting depth

- the Min cutting depth shouldn't be less than the tool nose radius of the insert
- The Max cutting depth depends on the cutting load of the lathe.
- The deviation and clearance angle of the machined workpiece can be improved by using inserts of different shapes.



🕒 车削注意事项 Precautions for turning

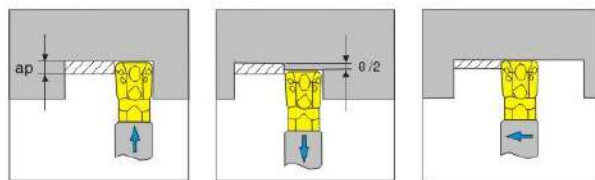
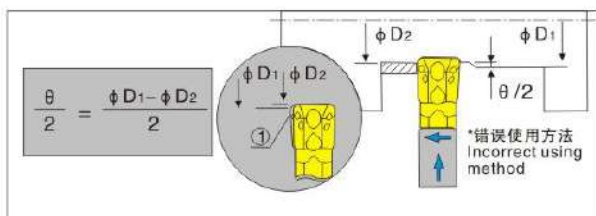
- ▶ MGT刀具的设计可使其通过刀片间隙角产生侧向切削力，这个特点使其比ISO标准刀片更具优势
- ▶ MGT标准刀片具有“修光”的效果，以提高表面粗糙度
- ▶ The MGT tool is designed to produce lateral cutting force through the clearance angle of the insert, which makes it more advantageous than the ISO standard insert.
- ▶ The MGT standard insert has a "sleeking" effect to improve the surface roughness,

车削和切槽 Turning and grooving

◎ 精加工注意事项(最终品质补偿)

Precautions for finishing (final quality compensation)

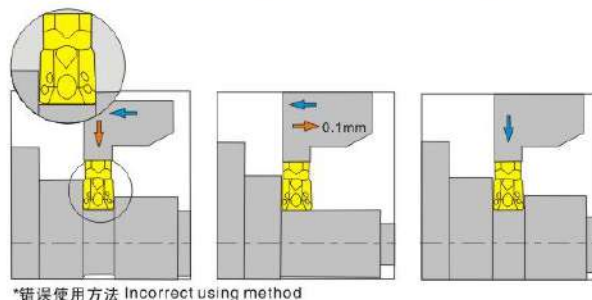
- ▶ 沿径向切槽至最终直径后，沿轴向横向切削可能会导致被加工件实际加工偏差。在这种情况下，根据公式，做加工补偿，可得到您想加工的最终直径
- ▶ 沿上图的加工方向利用间隙角消除加工偏差（通常在最终车削加工时产生）为获得优良的表面粗糙度，无偏差，请沿以下加工方向进行加工
 - (1)切槽至最终工件直径 (2)退刀距离为 $\theta/2$ (3)沿最终直径连续横向车削
- ▶ Transverse cutting axially after reaching the desired final diameter along the radial direction for grooving may cause real machining deviation to the machined workpiece. In this case, machining compensation is necessary to obtain the desired final diameter according to the formula.
- ▶ Eliminate the machining deviation (which is usually produced during final turning) along the machining direction as shown in the above figure by using the clearance angle and obtain excellent surface toughness without deviation. Please machine along the following machining direction.
 - 1) Grooving until the final workpiece diameter is reached. 2) The retracting distance is $\theta/2$.
 - 3) Continuously transverse turning along the final diameter.



◎ MGT刀具车削应用注意事项 Precautions for MGT tool turning

- ▶ MGT刀具作为一种多功能刀具，可进行切槽与车削加工。当使用MGT刀具时，须谨记此刀具模仿ISO标准车削加工应用，此加工使用正后角，因此刀具的切削力与切深都实施在同一加工中。这将导致刀片一定程度的磨损，车削后，切槽加工工序将无法到达最终要求直径。为消除直径偏差，刀具右移0.1mm，然后回到切槽加工的原始位置。

- ▶ As a multifunctional tool, the MGT tool can be applied to grooving and turning. When using the MGT tool, remember that the tool imitates the ISO standard turning in applications, i.e. using positive clearance angle during machining, therefore, the cutting force and depth of the tool are exerted in the same machining, which will cause insert wear to a certain extent and the grooving process cannot reach the required final diameter after turning. In order to eliminate diameter deviation, move the tool 0.1mm rightwards and then return to the original position of the grooving.

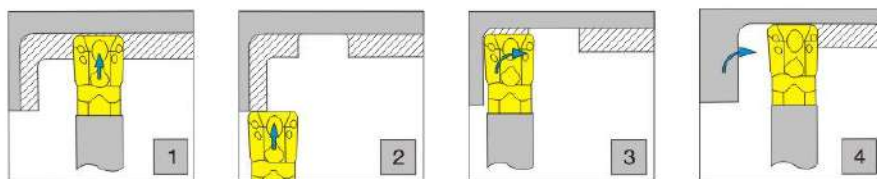
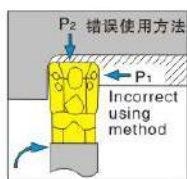


◎ 被加工件圆角半径小于刀片刀尖半径

The fillet radius of the machined workpiece is smaller than the tool nose radius of the insert.

当切槽时，如果被加工件圆角半径大于刀片刀尖半径，在稳定的切削阻力下，MGT刀具会产生合成负载（如图所示）径向切深和轴向切深方向的不平衡切削，负载会导致刀片和刀杆的损坏。

When grooving, the MGT tool will produce synthetic unbalanced cutting of the load (as shown in the Fig.) in the directions of radial and axial cutting depth, while the load will cause insert and cutter bar damage.



车削和切槽 Turning and grooving

刀片 Insert

导程角应用 Lead angle application	导程角0° (无方向性) 0° lead angle (non-directional)	导程角4° ~8° 4° ~8° lead angle	导程角8° ~15° 8° ~15° lead angle
 导程角(°) lead angle(°)	 0°	 4~8°	 8~15°
4° - 管(管和空心棒材) 6° - 管和实心棒材 8° - 实心棒材 15° - 小径实心棒材 4° - Tube (tube and hollow bar) 6° - Tube and solid bar 8° - Solid bar 15° - Small diameter solid bar	● 实心棒材工件切断加工 ● 切断时中心会有残留 ● 切断时防止偏离被加工件切削方向 ● 适用大直径切断 ● Solid bar workpiece cutting ● There will be residues at the center during cutting ● Avoid deviation from the cutting direction of the machined workpiece during cutting ● Suitable for major diameter cutting	● 实心棒工件切断加工时减少中心残留 ● 管和空心棒工件切断减少毛刺 ● Reduce central residue when cutting solid bar workpieces ● Reduce burrs when cutting tubes and hollow bars	● 小径空心棒工件切断加工 ● 小径实心棒工件切断时, 减少中心残留 ● Minor diameter hollow bar workpiece cutting ● Reduce central residue when cutting minor diameter solid bar workpieces

※可用刀片(Available insert): MGMR/L□□□ - □□ -PS/PT
导程角(°) Lead angle(°)

刀片选择 Insert selection

► 为使刀片与切削条件正确匹配, 需要考虑以下因素
· 刀片宽度 · 断屑槽 · 材质和刀尖半径R

► In order to match the insert with the cutting conditions, the following factors need to be considered:
· Insert width · chip breaker groove · Material and tool nose radius R

► 切深与切削宽度的关系

- 无方向性刀片导程角为0度, 最适宜切深较大的加工领域
- 普通合金钢, 最大切深=切削宽度W × 0.8

► The relationship between the cutting depth and the cutting width

- The non-directional insert with a 0° lead angle is most suitable for machining with relatively big cutting depth.
- Ordinary alloy steel, Max cutting depth= cutting width W × 0.8.

► 有导程角刀片

- 为减少毛刺, 我们推荐使用具有导程角刀片。大导程角刀片可减少毛刺但也能降低刀具使用寿命。如果毛刺程度可以接受, 推荐使用无方向性刀片

► Insert with a lead angle

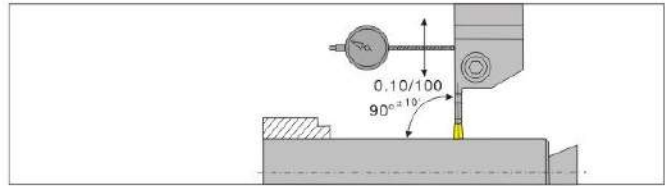
- In order to reduce burrs, it is recommended to use an insert with a lead angle. Though a big-lead angle insert can reduce burrs, the service life of the tool may be reduced. If the burr level is acceptable, it is recommended to use a non-directional insert.



车削和切槽 Turning and grooving

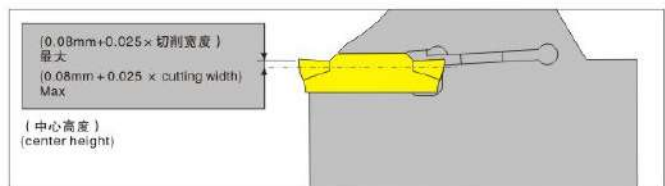
刀杆设定 Cutter bar setting

- ▶ 切削位置必须精确安装使其与加工轴垂直或成 90° ，使震动减至最小
- ▶ The cutter bar must be installed precisely at the cutting position, making it perpendicular (90°) to the machining shaft to reduce vibration to the largest extent.



切断设定 Cutting setting

- ▶ 需要将刀片刃部高度设定与轴线在 $\pm 0.1\text{mm}$ 范围内
- 加工时需要尽可能靠近夹持部进行加工，减少震动
- ▶ The height of the insert cutting edge needs to be set within $\pm 0.1\text{mm}$ from the axis.
- Machining close to the clamping part as much as possible during processing to reduce vibration.



注意 Note

- ▶ 保证切削速度和进给保持一致
 - 为更好的切削表现，采用适当数量的切削液
 - 装刀前彻底清理刀片和刀座
- ▶ Make sure the cutting speed is consistent with the feed speed
 - Use an appropriate amount of cutting fluid to have better cutting performance
 - Clean the insert and cutter seat thoroughly before mounting the insert

用法 Usage

- ▶ 如果刀片磨损请立即更换刀片，这样可以避免被加工件被损坏
 - 如果刀杆底座磨损请立即更换新的刀杆保证稳定的夹持
 - 不要磨削刀片底座
- ▶ Please replace the insert immediately in case of tool wear to avoid the damage of the machined workpiece.
 - Please replace with a new cutter bar in case of cutter bar base wear to ensure stable clamping.
 - Do not grind the insert base.

断屑槽选择 Selection of chip breaker groove

我们的断屑槽设计使得在切槽加工中切屑变窄。切屑窄通常有以下优点：

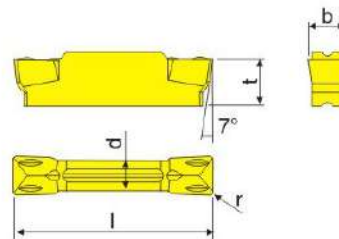
- ▶ 减少切屑与被加工件的摩擦。通常获得较好的表面粗糙度
- ▶ 较好的切屑流，由于切屑负载减小，操作人员可以提高进给率

Our chip breaker groove is designed to make chip flow narrow during grooving. A narrow chip flow usually has the following advantages:

- ▶ Reduce the friction between the chip and the machined workpiece. Obtain A favorable surface roughness usually.
- ▶ A good chip flow can reduce chip load, so that the operator can improve the feed rate.

切槽刀片 Grooving insert

MGMN□□-G

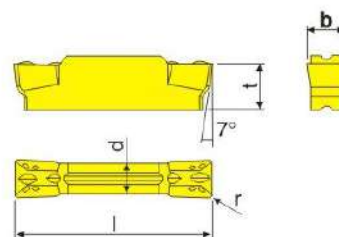


应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide													
		b	r	l	d	t	P					M				K	LDA			
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028	LF6118		LF618	LF3018	LF3028
切槽 Grooving	MGMN150-G	1.5	0.15	16	1.2	3.5	▲						▲							▲
	MGMN200-G	2	0.2	16	1.6	3.5	▲						▲							▲
	MGMN250-G	2.5	0.2	18.5	2	3.85	▲						▲							▲
	MGMN300-G	3	0.4	21	2.35	4.8	▲						▲							▲
	MGMN400-G	4	0.4	21	3.3	4.8	○						○							○

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

切槽刀片 Grooving insert

MGMN□□-M

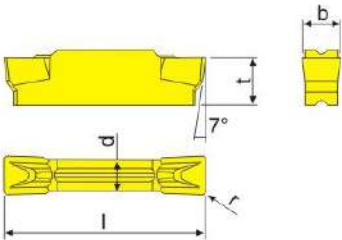


应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide														
		b	r	l	d	t	P					M				K		LDA			
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028	LF6118	LF618		LF3018	LF3028	
切槽车削 Grooving Turning	MGMN200-M	2	0.2	16	1.6	3.5	▲						▲	▲							▲
	MGMN250-M	2.5	0.2	18.5	2	3.85	▲						▲	▲							▲
	MGMN300-M	3	0.4	21	2.35	4.8	▲						▲	▲							▲
	MGMN400-M	4	0.4	21	3.3	4.8	▲						▲	▲							▲
	MGMN500-M	5	0.4	26	4.1	5.8	▲						▲	▲							▲
	MGMN600-M	6	0.8	26	5	5.8	○						○	○							○

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

切槽刀片 Grooving insert

MGMN□□-T

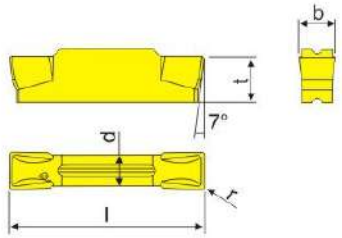


应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide													
		b	r	l	d	t	P					M			K	LDA				
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028		LF6118	LF618	LF3018	LF3028
切槽 Grooving	MGMN200-T	2	0.2	16	1.6	3.5	▲						▲							▲
	MGMN300-T	3	0.4	21	2.35	4.8	▲						▲							▲
	MGMN400-T	4	0.4	21	3.3	4.8	▲						▲							▲
	MGMN500-T	5	0.4	26	4.1	5.8	▲						▲							▲

产品库存 Product stock
 ▲ 主推牌号备库存 Main grade reserve stock
 ○ 按订单生产 Make-to-order

切槽刀片 Grooving insert

MGMN□□-H

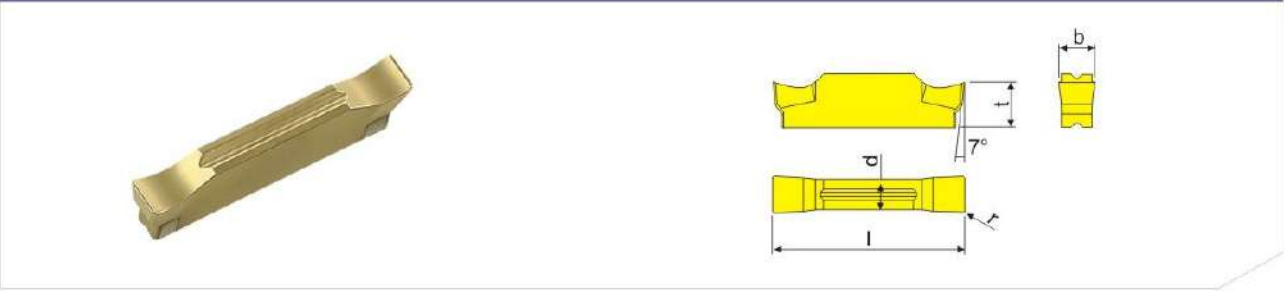


应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide													
		b	r	l	d	t	P					M			K	LDA				
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028		LF6118	LF618	LF3018	LF3028
切槽 Grooving	MGMN200-H	2	0.2	16	1.6	3.5	▲						▲							▲
	MGMN300-H	3	0.4	21	2.35	4.8	▲						▲							▲
	MGMN400-H	4	0.4	21	3.3	4.8	▲						▲							▲
	MGMN500-H	5	0.4	26	4.1	5.8	▲						▲							▲

产品库存 Product stock
 ▲ 主推牌号备库存 Main grade reserve stock
 ○ 按订单生产 Make-to-order

切槽刀片 Grooving insert

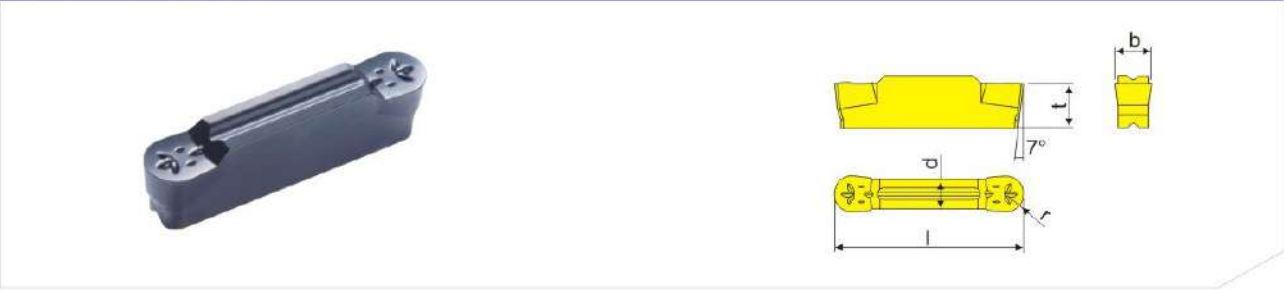
MGGN□□□-JH



Application 应用	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide													
		b	r	l	d	t	P					M			K	LDA				
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028		LF6118	LF618	LF3018	LF3028
切槽 Grooving	MGGN150-JH	1.5	0.15	16	1.2	3.5											▲			
	MGGN200-JH	2	0.2	16	1.6	3.5											▲			
	MGGN250-JH	2.5	0.2	18.5	2	3.85											▲			
	MGGN300-JH	3	0.4	21	2.35	4.8											▲			
	MGGN400-JH	4	0.4	21	3.3	4.8											▲			
	MGGN500-JH	5	0.4	26	4.1	5.8											▲			
	MGGN600-JH	6	0.4	26	4.1	5.8											▲			

切槽刀片 Grooving insert

MRMN□□-M

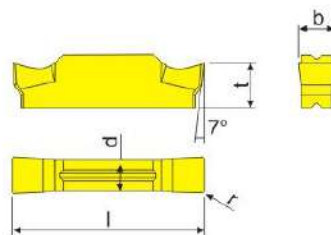


Application 应用	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide													
		b	r	l	d	t	P					M			K		LDA			
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028	LF6118		LF618	LF3018	LF3028
越程槽仿形 Grind undercut profile	MRMN200-M	2	1	16	1.6	3.5	▲						▲							▲
	MRMN300-M	3	1.5	21	2.35	4.8	▲						▲							▲
	MRMN400-M	4	2	21	3.3	4.8	▲						▲							▲
	MRMN500-M	5	2.5	26	4.1	5.8	▲						▲							▲
	MRMN600-M	6	3	26	5	5.8	○						○							○

产品库存 Product stock ▲ 主推牌号备库存 Main grade reserve stock ○ 按订单生产 Make-to-order

切槽刀片 Grooving insert

MGGN□□-JM

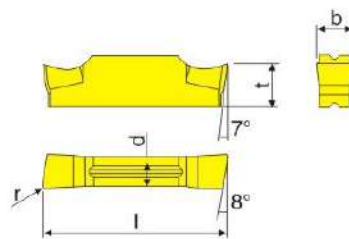
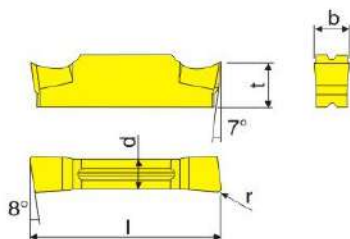


应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide													
		b	r	l	d	t	P					M			K	LDA				
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028		LF6118	LF618	LF3018	LF3028
切槽 Grooving	MGGN150-JM	1.5	0.15	16	1.2	3.5	▲						▲	▲						▲
	MGGN200-JM	2	0.2	16	1.6	3.5	▲						▲	▲						▲
	MGGN250-JM	2.5	0.2	18.5	2	3.85	▲						▲	▲						▲
	MGGN300-JM	3	0.4	21	2.35	4.8	▲						▲	▲						▲
	MGGN400-JM	4	0.4	21	3.3	4.8	▲						○	▲						▲
	MGGN500-JM	5	0.4	26	4.1	5.8	○						○	○						○

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

切槽刀片 Grooving insert

MGGN□□-8



应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide														
		b	r	l	d	t	P					M			K		LDA				
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028	LF6118		LF618	LF3018	LF3028	
切槽 Grooving	MGGN150L-8	1.5	-	16	1.2	3.5	▲						▲	▲							▲
	MGGN150R-8						▲							▲	▲						▲
	MGGN200L-8	2	-	16	1.6	3.5	▲						▲	▲							▲
	MGGN200R-8						▲							▲	▲						▲
	MGGN250L-8	2.5	-	18.5	2	3.85	▲						▲	▲							▲
	MGGN250R-8						▲							▲	▲						▲
	MGGN300L-8	3	-	21	2.35	4.8	▲						▲	▲							▲
	MGGN300R-8						▲							▲	▲						▲
	MGGN400L-8	4	-	21	3.3	4.8	▲						▲	▲							▲
	MGGN400R-8						▲							▲	▲						▲
	MGGN500L-8	5	-	26	4.1	5.8	○						○	○							○
	MGGN500R-8						○							○	○						○

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

切槽刀片 Grooving insert

MGMN□□-G-AL



应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide										未涂层硬质合金 Uncoated carbide	
		b	r	l	d	t	P					M			K	H01		
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028		LF6118	LF618
切槽车削 Grooving Turning	MGMN150-G-AL	1.5	0.15	16	1.2	3.5												▲
	MGMN200-G-AL	2	0.2	16	1.6	3.5												▲
	MGMN250-G-AL	2.5	0.2	18.5	2	3.85												▲
	MGMN300-G-AL	3	0.4	21	2.35	4.8												▲
	MGMN400-G-AL	4	0.4	21	3.3	4.8												▲
	MGMN500-G-AL	5	0.4	26	4.1	5.8												▲

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

切槽刀片 Grooving insert

MRMN□□-M-AL

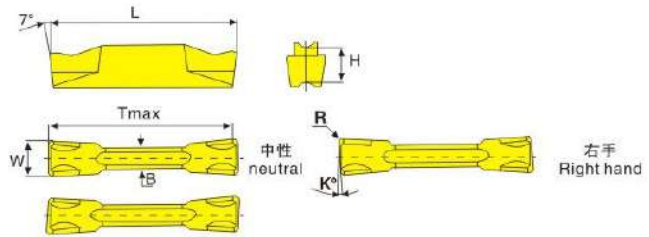


应用 Application	型号 Model	规格尺寸(mm) Specification and dimension (mm)					涂层硬质合金 Coated carbide										未涂层硬质合金 Uncoated carbide		
		b	r	l	d	t	P					M			K	H01			
							LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028		LF6118	LF618	LF3018
越程槽仿形 Grind undercut profile	MRMN200-M-AL	2	1	16	1.6	3.5													▲
	MRMN300-M-AL	3	1.5	21	2.35	4.8													▲
	MRMN400-M-AL	4	2	21	3.3	4.8													▲
	MRMN500-M-AL	5	2.5	26	4.1	5.8													▲
	MRMN600-M-AL	6	3	26	5	5.8													○

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

切槽刀片 Grooving insert

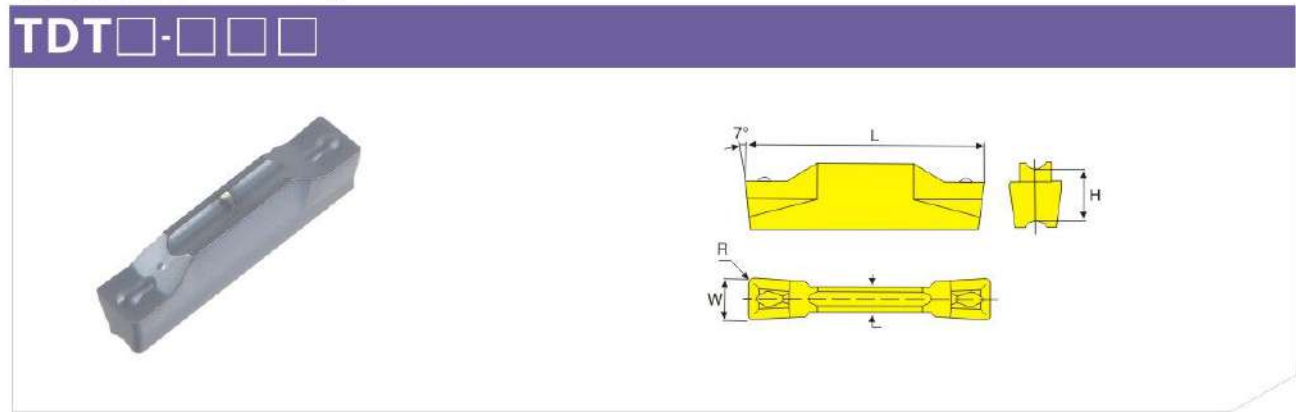
TDC□-□□□



应用 Application	型号 Model	刀座尺寸 Cutter seat dimension	W +0.05	R	B	L	K	H	Tmax	涂层硬质合金 Coated carbide												未涂层硬质合金 Uncoated carbide		
										P						M				K		H01		
										LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028	LF6118	LF618	LF3018		LF3028	
切槽 Grooving	TDC 2	2	2.0	0.2	1.7	20.0	-	4.7	19								▲							
	TDC 2-6R/L						6										▲							
	TDC 2-8R/L						8										▲							
	TDC 2-15R/L						15									▲								
	TDC 2-15RS/L					19.6	15									▲								
	TDC 3	3	3.0	0.2	2.4	20.0	-											▲						
	TDC 3-6R/L						6									▲								
	TDC 3-6RS/LS					19.6	6									▲								
	TDC 3-15R/L					20.0	15									▲								
	TDC 3-15RS/LS					19.6	15									▲								
	TDC 4	4	4.0	0.3	3.0	25.0	-											▲						
	TDC 4-4R/L						4										▲							
	TDC 4-15R/L						15									▲								
	TDC 5	5	5.0	0.3	4.0	20.0	-	5.2	24								▲							
	TDC 5-4R						4										▲							
	TDC 6	6	6.0	0.3	5.0	25.0	-												▲					
	TDC 8	8	8.0	0.4	6.0	30.0	-	6.4	29								○							

产品库存 Product stock ▲ 主推牌号备库存 Main grade reserve stock ○ 按订单生产 Make-to-order

切槽刀片 Grooving insert

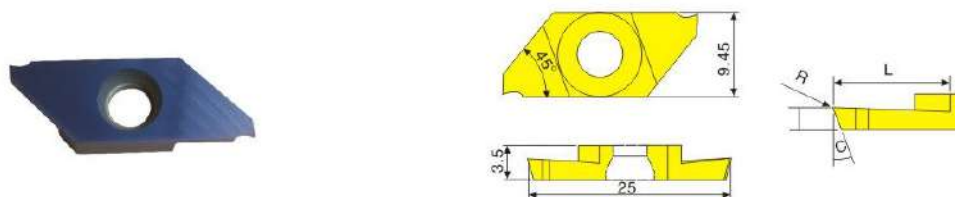


应用 Application	型号 Model	刀座尺寸 Cutter seat dimension	W ±0.05	R	B	L	H	涂层硬质合金 Coated carbide												未涂层硬质合金 Uncoated carbide			
								P						M				K		H01			
								LF9008	LF9018	LF9028	LF9218	LF9118	LF918	LF6008	LF6018	LF6028	LF6118	LF618	LF3018		LF3028		
切槽 Grooving	TDT 2.65E-0.15	3	2.65	0.15	2.2	20.0	4.7							▲									
	TDT 3.00E-0.20		3.00	0.20													▲						
	TDT 3.00E-0.40			0.40													▲						
	TDT 3.15E-0.15		3.15	0.15													▲						
	TDT 4.00E-0.40	4	4.00	0.40	3.0	25.0	5.2							▲									
	TDT 4.00E-0.80			0.80													▲						
	TDT 4.15E-0.15		4.15	0.15													▲						
	TDT 4.78E-0.55	5	4.78	0.55	4.0											▲							
	TDT 5.00E-0.40		5.00	0.40													▲						
	TDT 5.00E-0.80			0.80													▲						
	TDT 5.15E-0.15		5.15	0.15														▲					
	TDT 6.00E-0.80	6	6.00	0.80	5.0												▲						
	TDT 6.00E-1.20			1.20													▲						
	TDT 8.00E-0.80	8	8.00	0.80	6.0			30.0	6.4								○						
	TDT 8.00E-1.20			1.20																○			
	TDT 10.00E-0.80	10	10	0.8	8.0												○						
	TDT 10.00E-1.20			1.2														○					
	TDT 10.00E-2.00			2.0														○					

产品库存 Product stock
 ▲ 主推牌号备库存 Main grade reserve stock
 ○ 按订单生产 Make-to-order

切槽刀片 Grooving insert

CT□□□.□□□

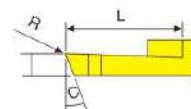
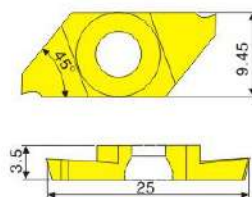


型号 Model	尺寸 Dimension					牌号 Grade		
	R	W	L	C	最大切断D Max cut-off	LF6018	LF90	LDA
CTPA0.7FR	0.05	0.7	6.5	16°	12	▲		▲
CTPA1.0FR		1	6.5	16°	12	▲		▲
CTPA1.5FR		1.5	7.5	16°	14	▲		▲
CTPA2.0FR		2	7.5	16°	14	▲		▲
CTPA0.7FRN		0.7	6.5	0	12	▲		▲
CTPA1.0FRN		1	6.5	0	12	▲		▲
CTPA1.5FRN		1.5	7.5	0	14	▲		▲
CTPA2.0FRN		2	7.5	0	14	▲		▲
CTPA0.7FL		0.7	6.5	16°	12	▲		▲
CTPA1.0FL		1	6.5	16°	12	▲		▲
CTPA1.5FL		1.5	7.5	16°	14	▲		▲
CTPA2.0FL		2	7.5	16°	14	▲		▲
CTPA0.7FLN		0.7	6.5	0	12	▲		▲
CTPA1.0FLN		1	6.5	0	12	▲		▲
CTPA1.5FLN		1.5	7.5	0	14	▲		▲
CTPA2.0FLN		2	7.5	0	14	▲		▲

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

切槽刀片 Grooving insert

CT□□.□□□



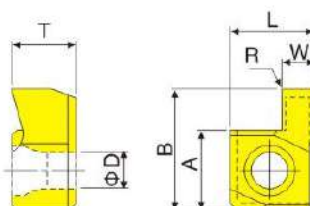
型号 Model	尺寸 Dimension					牌号 Grade		
	R	W	L	C	最大切断D Max cut-off	LF6018	LF90	LDA
CTP0.7FR	0.05	0.7	4.5	16°	8	▲		▲
CTP1.0FR		1	6.5	16°	12	▲		▲
CTP1.5FR		1.5	6.5	16°	12	▲		▲
CTP2.0FR		2	6.5	16°	12	▲		▲
CTP0.7FRN		0.7	4.5	0	8	▲		▲
CTP1.0FRN		1	6.5	0	12	▲		▲
CTP1.5FRN		1.5	6.5	0	12	▲		▲
CTP2.0FRN		2	6.5	0	12	▲		▲
CTP0.7FL		0.7	4.5	16°	8	▲		▲
CTP1.0FL		1	6.5	16°	12	▲		▲
CTP1.5FL		1.5	6.5	16°	12	▲		▲
CTP2.0FL		2	6.5	16°	12	▲		▲
CTP0.7FLN		0.7	4.5	0	8	▲		▲
CTP1.0FLN		1	6.5	0	12	▲		▲
CTP1.5FLN		1.5	6.5	0	12	▲		▲
CTP2.0FLN		2	6.5	0	12	▲		▲

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

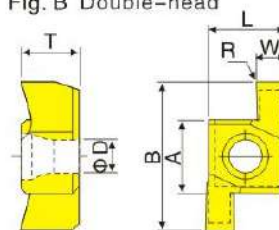
切槽刀片 Grooving insert

GR

图A 单头
Fig. A Single-head



图B 双头
Fig. B Double-head



型号 Model	尺寸 Dimension							牌号 Grade		
	W	A	B	T	ΦD	L	R	LF6018	LF90	LDA
6GR/L100	1.0	4.76	6.4	2.34	2.3	5.56	0.2	▲		▲
6GR/L110	1.1							▲		▲
6GR/L120	1.2							▲		▲
6GR/L130	1.3							▲		▲
6GR/L140	1.4							▲		▲
6GR/L150	1.5							▲		▲
6GR/L160	1.6							▲		▲
6GR/L170	1.7							▲		▲
6GR/L180	1.8							▲		▲
6GR/L190	1.9							▲		▲
6GR/L200	2.0							▲		▲
7GR/L100	1.0	5.56	7.36	3.08	2.58	5.56		▲		▲
7GR/L110	1.1							▲		▲
7GR/L120	1.2							▲		▲
7GR/L130	1.3							▲		▲
7GR/L140	1.4							▲		▲
7GR/L150	1.5							▲		▲
7GR/L160	1.6							▲		▲
7GR/L170	1.7							▲		▲
7GR/L180	1.8							▲		▲
7GR/L190	1.9							▲		▲
7GR/L200	2.0							▲		▲
8GR/L100	1.0	5.56	10.16	3.87	2.58	6.15		▲		▲
8GR/L110	1.1							▲		▲
8GR/L120	1.2							▲		▲
8GR/L130	1.3							▲		▲
8GR/L140	1.4							▲		▲
8GR/L150	1.5							▲		▲
8GR/L160	1.6							▲		▲
8GR/L170	1.7							▲		▲
8GR/L180	1.8							▲		▲
8GR/L190	1.9							▲		▲
8GR/L200	2.0							▲		▲
8GR/L210	2.1							▲		▲
8GR/L220	2.2							▲		▲
8GR/L230	2.3							▲		▲
8GR/L240	2.4							▲		▲
8GR/L250	2.5							▲		▲
8GR/L260	2.6							▲		▲
8GR/L270	2.7	▲		▲						

产品库存
Product stock

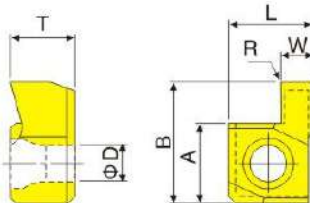
▲ 主推牌号备库存
Main grade reserve stock

○ 按订单生产
Make-to-order

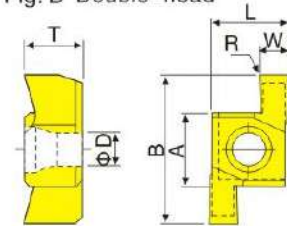
切槽刀片 Grooving insert

GR

图A 单头
Fig. A Single-head



图B 双头
Fig. B Double-head

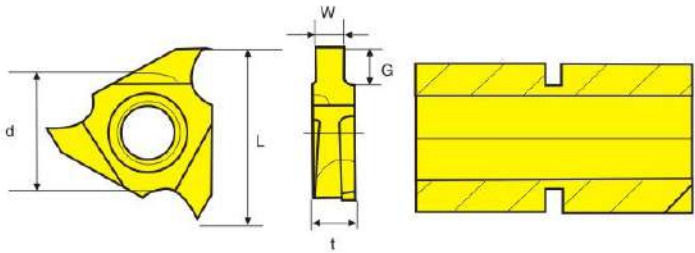


型号 Model	尺寸 Dimension							牌号 Grade		
	W	A	B	T	ΦD	L	R	LF6018	LF90	LDA
8GR/L280	2.8	5.56	10.16	3.87	2.58	6.15	0.2	▲		▲
8GR/L290	2.9							▲		▲
8GR/L300	3.0							▲		▲
8GR/L310	3.1							▲		▲
8GR/L320	3.2							▲		▲
8GR/L330	3.3							▲		▲
8GR/L340	3.4							▲		▲
8GR/L350	3.5							▲		▲
9GR/L100	1.0	6.35	12.95	4.66	2.86	7.74		▲		▲
9GR/L110	1.1							▲		▲
9GR/L120	1.2							▲		▲
9GR/L130	1.3							▲		▲
9GR/L140	1.4							▲		▲
9GR/L150	1.5							▲		▲
9GR/L160	1.6							▲		▲
9GR/L170	1.7							▲		▲
9GR/L180	1.8							▲		▲
9GR/L190	1.9							▲		▲
9GR/L200	2.0							▲		▲
9GR/L210	2.1							▲		▲
9GR/L220	2.2							▲		▲
9GR/L230	2.3							▲		▲
9GR/L240	2.4							▲		▲
9GR/L250	2.5							▲		▲
9GR/L260	2.6							▲		▲
9GR/L270	2.7							▲		▲
9GR/L280	2.8							▲		▲
9GR/L290	2.9							▲		▲
9GR/L300	3.0							▲		▲
9GR/L310	3.1							▲		▲
9GR/L320	3.2							▲		▲
9GR/L330	3.3							▲		▲
9GR/L340	3.4							▲		▲
9GR/L350	3.5							▲		▲
9GR/L360	3.6							▲		▲
9GR/L370	3.7							▲		▲
9GR/L380	3.8							▲		▲
9GR/L390	3.9							▲		▲
9GR/L400	4.0							▲		▲

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

浅槽刀 Grooving insert

TGF□□R/L



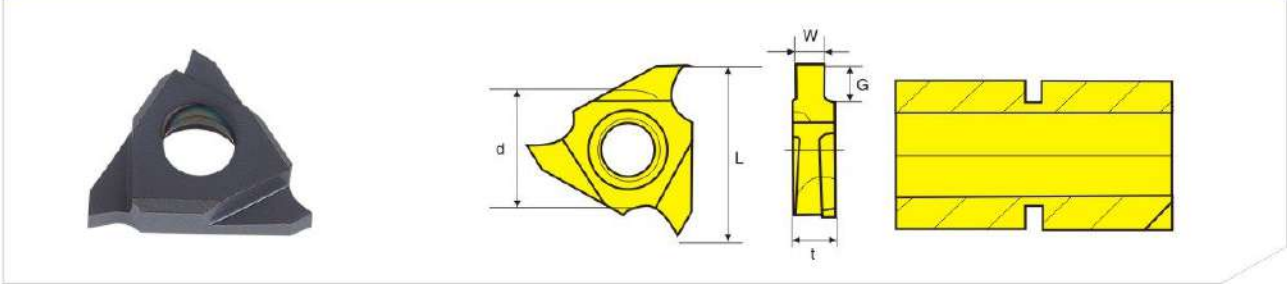
规格 Specification	尺寸 Dimension					牌号 Grade		
	L	W	G	d	t	LF6018	LF6118	LDA
TGF32R/L 030	16	0.30	0.9	3/8	3.18	▲	▲	▲
TGF32R/L 040		0.40	1.3			▲	▲	▲
TGF32R/L 050		0.50	1.3			▲	▲	▲
TGF32R/L 060		0.60	1.9			▲	▲	▲
TGF32R/L 065		0.65	1.9			▲	▲	▲
TGF32R/L 070		0.70	1.9			▲	▲	▲
TGF32R/L 075		0.75	1.9			▲	▲	▲
TGF32R/L 080		0.80	1.9			▲	▲	▲
TGF32R/L 085		0.85	1.9			▲	▲	▲
TGF32R/L 090	16	0.9	1.9	3/8	3.18	▲	▲	▲
TGF32R/L 095		0.95	1.9			▲	▲	▲
TGF32R/L 100		1.00	2.3			▲	▲	▲
TGF32R/L 110	16	1.10	2.3	3/8	3.18	▲	▲	▲
TGF32R/L 115		1.15	2.3			▲	▲	▲
TGF32R/L 120		1.20	2.3			▲	▲	▲
TGF32R/L 125		1.25	2.3			▲	▲	▲
TGF32R/L 130		1.30	2.3			▲	▲	▲
TGF32R/L 135		1.35	2.3			▲	▲	▲
TGF32R/L 140		1.40	2.3			▲	▲	▲
TGF32R/L 145		1.45	2.3			▲	▲	▲
TGF32R/L 150		1.50	2.3			▲	▲	▲
TGF32R/L 155		1.55	2.3			▲	▲	▲
TGF32R/L 160		1.60	2.3			▲	▲	▲
TGF32R/L 165		1.65	2.3			▲	▲	▲
TGF32R/L 170		1.70	2.3			▲	▲	▲
TGF32R/L 175		1.75	2.3			▲	▲	▲
TGF32R/L 180		1.80	2.3			▲	▲	▲

订货举例：TGF32R150 100片
Order example: TGF32R150 100PCS

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

浅槽刀 Grooving insert

TGF□□R/L

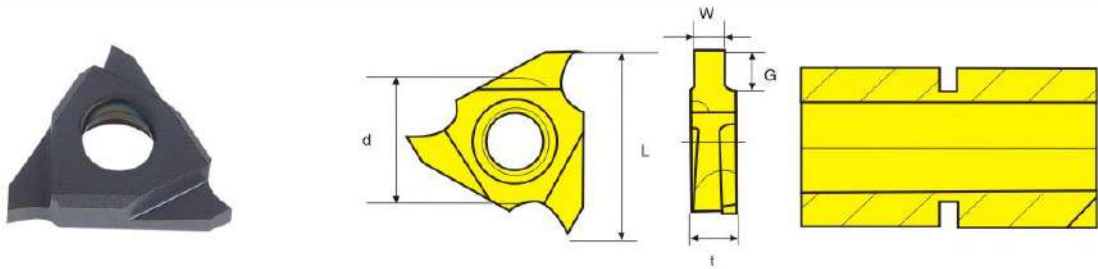


规格 Specification	尺寸 Dimension					牌号 Grade		
	L	W	G	d	t	LF6018	LF6118	LDA
TGF32R/L 190	16	1.90	2.8	3/8	3.18	▲	▲	▲
TGF32R/L 195		1.95	2.8			▲	▲	▲
TGF32R/L 200		2.00	2.8			▲	▲	▲
TGF32R/L 210		2.10	2.8			▲	▲	▲
TGF32R/L 215		2.15	2.8			▲	▲	▲
TGF32R/L 220		2.20	2.8			▲	▲	▲
TGF32R/L 225		2.25	2.8			▲	▲	▲
TGF32R/L 230		2.30	2.8			▲	▲	▲
TGF32R/L 240		2.40	2.8			▲	▲	▲
TGF32R/L 245		2.45	2.8			▲	▲	▲
TGF32R/L 250		2.50	2.8			▲	▲	▲
TGF32R/L 260		2.60	2.8			▲	▲	▲
TGF32R/L 270		2.70	2.8			▲	▲	▲
TGF32R/L 275		2.75	2.8			▲	▲	▲
TGF32R/L 280		2.80	2.8			▲	▲	▲
TGF32R/L 290		2.90	2.8			▲	▲	▲
TGF32R/L 300		3.00	2.8			▲	▲	▲

产品库存 Product stock ▲ 主推牌号备库存 Main grade reserve stock ○ 按订单生产 Make-to-order

浅槽刀 Grooving insert

TGF□□R/L



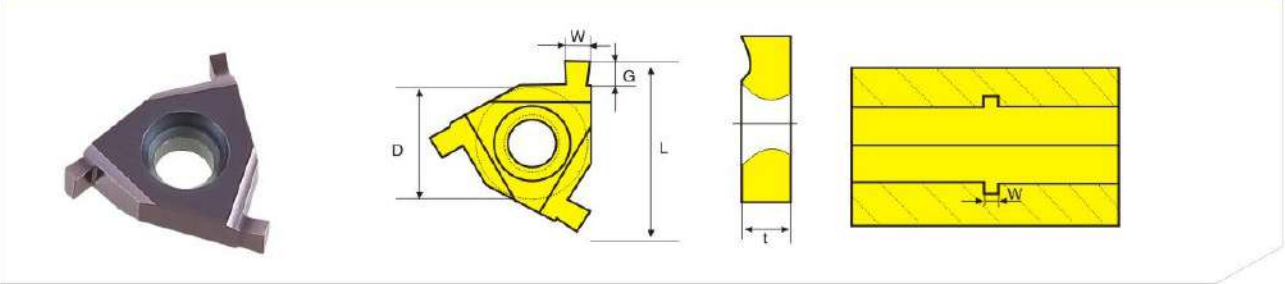
规格 Specification	尺寸 Dimension					牌号 Grade		
	L	W	G	d	t	LF6018	LF6118	LDA
TGF43R/L 100	22	1.00	2.6	1/2	4.76	▲	▲	▲
TGF43R/L 125		1.25	2.6			▲	▲	▲
TGF43R/L 150		1.50	2.6			▲	▲	▲
TGF43R/L 175		1.75	2.6			▲	▲	▲
TGF43R/L 180		1.80	2.6			▲	▲	▲
TGF43R/L 200	22	2.00	4.1	1/2	4.76	▲	▲	▲
TGF43R/L 230		2.30	4.1			▲	▲	▲
TGF43R/L 250		2.50	4.1			▲	▲	▲
TGF43R/L 275		2.75	4.1			▲	▲	▲
TGF43R/L 280		2.80	4.1			▲	▲	▲
TGF43R/L 300		3.00	4.1			▲	▲	▲
TGF43R/L 325		3.25	4.1			▲	▲	▲
TGF43R/L 345	22	3.45	4.1	1/2	4.76	▲	▲	▲
TGF43R/L 350		3.50	5.2			▲	▲	▲
TGF43R/L 375		3.75	5.2			▲	▲	▲
TGF43R/L 395		3.95	5.2			▲	▲	▲
TGF43R/L 400		4.00	5.2			▲	▲	▲
TGF43R/L 450		4.50	5.2			▲	▲	▲
TGF43R/L 470	22	4.70	5.2	1/2	4.76	▲	▲	▲

订货举例: TGF43R300 100片
Order example: TGF43R300 100PCS

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

浅槽刀 Grooving insert

ER(IR)/IL(EL)

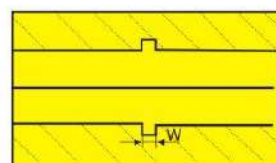
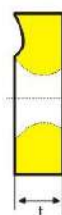
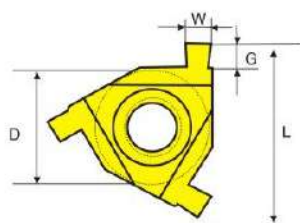


规格 Specification	尺寸 Dimension					牌号 Grade		
	L	W	G	d	t	LF6018	LF6118	LDA
ER/IL(IR/EL) 0.75	08	0.75	0.8	3/16	2.2	▲	▲	▲
ER/IL(IR/EL) 0.80		0.80	0.8			▲	▲	▲
ER/IL(IR/EL) 0.85		0.85	0.8			▲	▲	▲
ER/IL(IR/EL) 0.90		0.90	0.8			▲	▲	▲
ER/IL(IR/EL) 1.00		1.00	0.8			▲	▲	▲
ER/IL(IR/EL) 0.80		0.80	1.2			▲	▲	▲
ER/IL(IR/EL) 0.85	11	0.85	1.2	1/4	3.2	▲	▲	▲
ER/IL(IR/EL) 0.90		0.90	1.2			▲	▲	▲
ER/IL(IR/EL) 1.00		1.00	1.2			▲	▲	▲
ER/IL(IR/EL) 1.10		1.10	1.2			▲	▲	▲
ER/IL(IR/EL) 1.20		1.20	1.2			▲	▲	▲
ER/IL(IR/EL) 1.25		1.25	1.2			▲	▲	▲
ER/IL(IR/EL) 1.30		1.30	1.2			▲	▲	▲
ER/IL(IR/EL) 1.40		1.40	1.2			▲	▲	▲
ER/IL(IR/EL) 1.50		1.50	1.2			▲	▲	▲
ER/IL(IR/EL) 2.00		2.00	1.2			▲	▲	▲
ER/IL(IR/EL) 0.80	16	0.80	1.4	3/8	3.65	▲	▲	▲
ER/IL(IR/EL) 0.90		0.90	1.4			▲	▲	▲
ER/IL(IR/EL) 1.00		1.00	1.4			▲	▲	▲
ER/IL(IR/EL) 1.05		1.05	1.8			▲	▲	▲
ER/IL(IR/EL) 1.10		1.10	1.8			▲	▲	▲

产品库存 ▲ 主推牌号备库存 ○ 按订单生产
Product stock Main grade reserve stock Make-to-order

浅槽刀 Grooving insert

ER(IR)/IL(EL)



规格 Specification	尺寸 Dimension					牌号 Grade		
	L	W	G	d	t	LF6018	LF6118	LDA
ER/IL(IR/EL) 1.20	16	1.20	1.80	3/8	3.65	▲	▲	▲
ER/IL(IR/EL) 1.25		1.25	1.80		3.65	▲	▲	▲
ER/IL(IR/EL) 1.30		1.30	1.80		3.65	▲	▲	▲
ER/IL(IR/EL) 1.35		1.35	1.80		3.65	▲	▲	▲
ER/IL(IR/EL) 1.40		1.40	1.80		3.65	▲	▲	▲
ER/IL(IR/EL) 1.45		1.45	1.80		3.65	▲	▲	▲
ER/IL(IR/EL) 1.50		1.50	1.80		3.65	▲	▲	▲
ER/IL(IR/EL) 1.55		1.55	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 1.60		1.60	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 1.65		1.65	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 1.70		1.70	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 1.75		1.75	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 1.80		1.80	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 1.85		1.85	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 1.90		1.90	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 2.00		2.00	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 2.05		2.05	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.10		2.10	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.15		2.15	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.20		2.20	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.25		2.25	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.30		2.30	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.40		2.40	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.50		2.50	2.2		3.65	▲	▲	▲
ER/IL(IR/EL) 2.55		2.55	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 2.60		2.60	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 2.70		2.70	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 2.80		2.80	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 2.90		2.90	2.0		3.65	▲	▲	▲
ER/IL(IR/EL) 3.00		3.00	2.0		3.65	▲	▲	▲

订货举例：16 ER/IL 1.50 100片或16 IR/EL 1.50 100片
Order example: 16 ER/IL 1.50 100PCS or 16 IR/EL 1.50 100PCS

产品库存
Product stock

▲ 主推牌号备库存 ○ 按订单生产
Main grade reserve stock Make-to-order



**PT ELOK
TEKNIK
SEJAHTERA**



081217485908



eloktekniksejahtera@gmail.com



**Crystal Boulevard, Jalan Bulevar Ahmad Yani
Blok ND No 51 Summarecon Bekasi,
Bekasi, Jawa Barat 17143**



**elokteknik.com
deskari.id**