



EJ Carbide Co.,Ltd

Tel: 86 0731 22995411

Email: judy@ejcarbide.com

Web: www.ejcarbide.com



Little squirrel series

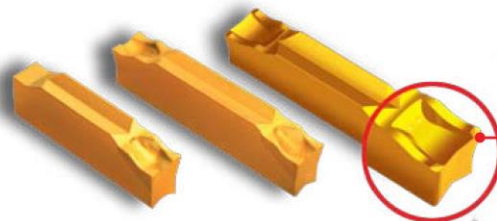
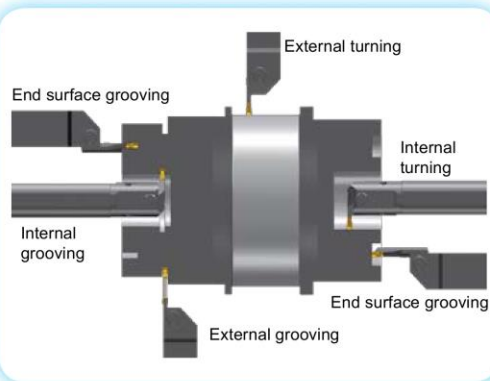
-MG Chipbreaker

■ Customized **-MG** chipbreaker series

Suitable for parting, grooving, profile turning and turning, etc. Easy machining and unobstructed chip flow lead to ideal surface quality.

■ Human-centered design realizes various application of one single insert, reducing the tool categories needed.

Inserts of the same edge with can work with corresponding tool holders to satisfy the requirements of external, internal and surface grooving and turning by using minimum categories of inserts and tool holders, effectively reducing cost of tool storage and management.



The cutting resistant force is reduced by 20%, and the vibration is diminished.

■ Unique and professional structure design of parting inserts

- A special flank structure is designed to reduce cutting resistant force by 20% and diminish vibration, which improves the surface quality.
- A special edge design requires less rigidity of machine. It can be used on machine with small power.





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Little squirrel series

-EG

Precise grooving and profile turning inserts

Special chipbreaker design, suitable for precise grooving of low-carbon steel, stainless steel, adhesive materials and non-ferrous metal.

-EG Precise grooving inserts

The edge width can be anything between **1.0-6.5mm** according to your requirements.



The tolerance of the edge width S of precise grooving and profiling inserts can reach ± 0.025 . Inserts can also be mounted on the corresponding specifications of original tool series.

The width of the Little Squirrel series precise grooving inserts can be anything between 1.0mm to 6.5mm, which means products with any edge width or nose radius can be provided according to customers' requirements. The inserts are mainly used for precise grooving, such as sealing slot and locating slot, etc.

The Little Squirrel series precise profiling and turning inserts are mainly used for Precise grooving and profiling.

-EG Precise profile turning inserts

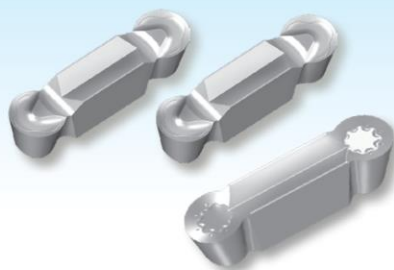


-LG/-LH

Profile turning inserts for Al

The special chipbreaker for aluminum profiling is designed to combine sharpness and strength of the cutting edge, effectively reducing the friction between chips and the rake face. The inserts are suitable for continuous and intermittent profiling of Al alloy.

Suitable for various machining of Al wheel boss periphery, surface and inner wall, etc.





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Parting and grooving tools

Little squirrel series parting and grooving inserts

TURNING

Little squirrel series parting, grooving and profiling inserts code key

Insert applications

ZP > Parting **ZT** > Grooving and turning
ZR > Profiling

Code of locating slot

Code of locating slot	E	F	G	H	K
Corresponding edge width of inserts	2.5	3.0	4.0	5.0	6.0

Code of cutting edge number

S > Single cutting edge **D** > Double cutting edge

ZP G D 04 04 - M G

Cutting edge width

02=2.5mm
 03=3.0mm
 04=4.0mm
 05=5.0mm
 06=6.0mm

Nose radius

02=0.2mm
 03=0.3mm
 04=0.4mm
 08=0.8mm

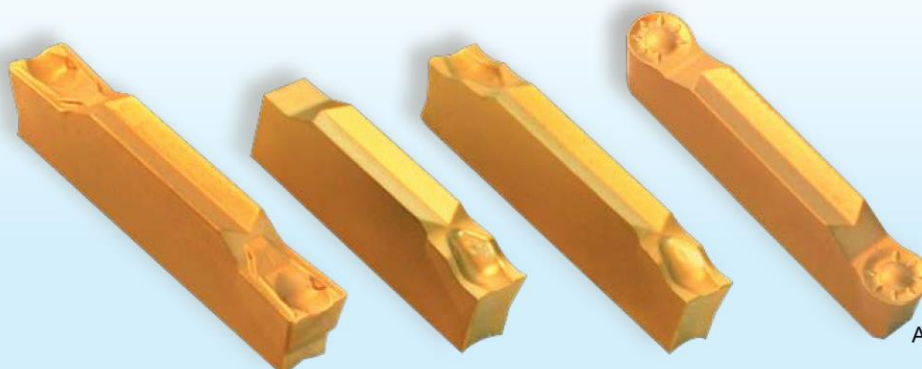
Tolerance class

M > M-level tolerance
E > E-level tolerance

Chipbreaker code

G > Universal chipbreaker, suitable for machining various materials
F > Special chipbreaker

A
 General turning
 Parting and grooving
 Little squirrel series parting and grooving inserts



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TURNING

Parting and grooving tools

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Parting inserts

A
General
turning
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Little squirrel series parting
and grooving inserts

Double edges

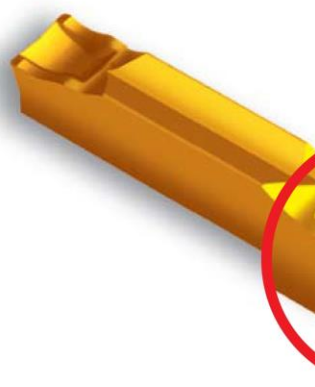
Single edge

Type		Basic dimensions(mm)			Grade						
					P			M		K	N
		S ^{+0.1 0}	R ^{±0.1}	Cutting depth L _{max}	YBG202	YBG302	YBC151	YBG202	YBG302	YBG302	YD101
Double edges	ZPED02502-MG	2.5	0.2	17	●	★		●	★	★	
	ZPFD0302-MG	3.0	0.2	17		○			○	○	
	ZPGD0402-MG	4.0	0.2	22		○			○	○	
	ZPHD0503-MG	5.0	0.3	22		○			○	○	
	ZPKD0604-MG	6.0	0.4	22		○			○	○	
Single edge	ZPES02502-MG	2.5	0.2		○	★		○	★	★	
	ZPFS0302-MG	3.0	0.2			○			○	○	
	ZPGS0402-MG	4.0	0.2			○			○	○	
	ZPHS0503-MG	5.0	0.3			○			○	○	
	ZPKS0604-MG	6.0	0.4			○			○	○	

The single-edge insert is only mounted on parting blade.

The single-edge insert is only mounted on parting blade.

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order



Please reduce the cutting speed by 30% when the insert is approaching the centre of workpiece. This can prolong tool life.

Optimal chipbreaker structure can well control chip flow and curling.

Cutting resistant force is reduced by 20% and vibration is diminished.



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Parting and grooving tools

Little Squirrel Series Parting and Grooving Inserts

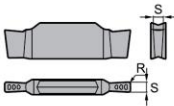
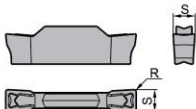
TURNING

Grooving and turning inserts

Type		Basic dimensions(mm)			Grade						
					P			M	K	N	
		S ^{+0.1} ₀	R±0.10	Cutting depth L _{max}	YBG202	YBG302	YBC151	YBG202	YBG302	YBG302	YD101
Double edges	ZTED02503-MG	2.5	0.3	17	●	★	○	●	★	★	
	ZTFD0303-MG	3.0	0.3	17	●	★	○	●	★	★	
	ZTGD0404-MG	4.0	0.4	22	●	★	●	●	★	★	
	ZTHD0504-MG	5.0	0.4	22	●	★		●	★	★	
Single edge	ZTKD0608-MG	6.0	0.8	22	●	★		●	★	★	
	ZTHS0504-MG	5.0	0.4		○	○		○	○	○	
	ZTKS0608-MG	6.0	0.8		○	○		○	○	○	

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

Precise grooving and turning inserts

			
1.0~2.4mm series		>2.4~6.5mm series	

Type		Basic dimensions(mm)		Grade							
				P			M		K	N	
		S±0.025	R ⁽²⁾ ±0.05	Cutting depth L _{amax}	YBG202	YBG302	YBC151	YBG202	YBG302	YBG302	YD101
Double edges	ZTCD□□□□-EG ⁽¹⁾	1.0~1.6	See note. (2)	2.6	○	○	○	○	○	○	
		1.6~2.4		3.4							
	ZTED□□□□-EG	2.4~3.0		17	○	○		○	○	○	
	ZTFD□□□□-EG	3.0~3.8		17	○	○	○	○	○	○	
	ZTGD□□□□-EG	3.8~4.8		22	○	○		○	○	○	
	ZTHD□□□□-EG	4.8~5.8		22	○	○		○	○	○	
	ZTKD□□□□-EG	5.8~6.5		22	○	○		○	○	○	

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

Note: (1) □ The code here in the description is determined by edge width and nose radius requested by customers. For example, when the customer requires an edge width of 3.5mm and a nose radius of 0.3mm, the description of the insert would be ZTFD03503-EG.

(2) The nose radius range is 0.25R ≤ R ≤ 0.5 on request.



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TURNING

Parting and grooving tools

Little squirrel series parting and grooving inserts

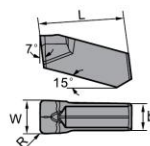
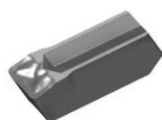
Single-edge grooving and turning inserts for machining (from semi-finishing to roughing) materials hard to be machined

A

General turning

Parting and grooving

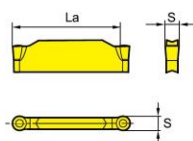
Little squirrel series parting and grooving inserts



Type	Basic dimensions(mm)				Grade			
	W±0.05	R±0.1	b	L	S		M	
					YD101	YBG102	YBG202	YBG202
ZIMF304N-NM	3	0.4	2.4	15.3		★		
ZIMF406N-NM	4	0.6	3.2	15.3		★		
ZIMF506N-NM	5	0.6	4	15.3		★		
ZIMF608N-NM	6	0.8	4	15.3	○	★		

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

Profile turning inserts



Type	Basic dimensions(mm)		Grade					
	S ^{+0.1} ₀	Cutting depth La _{max}	P		M		K	N
			YBG202	YBG302	YBC151	YBG202	YBG302	YD101
Double edges	ZRED025-MG	2.5	17.5	●	★		●	★
	ZRFD03-MG	3.0	17	●	★		●	★
	ZRGD04-MG	4.0	21	●	★		●	★
	ZRHD05-MG	5.0	20	○	★		●	★
	ZRKD06-MG	6.0	19	●	★		●	★

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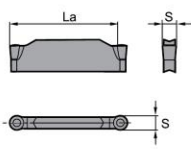
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Parting and grooving tools

Little Squirrel Series Parting and Grooving Inserts

TURNING

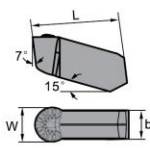
Precise profiling inserts

 				Grade					
Type	Basic dimensions(mm)								
	S ± 0.025	Cutting depth L _{max}		P		M		K	N
				YBG202	YBG302	YBC151	YBG202	YBG302	YD101
Double edges	ZRFD03-EG	3.0	17		○			○	○
	ZRGD04-EG	4.0	21		○			○	○
	ZRHD05-EG	5.0	20		○			○	○
	ZRKD06-EG	6.0	19		○			○	○

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

A
General
turning
Parting and
grooving
Little Squirrel Series Parting
and Grooving Inserts

Single-edge inserts for machining materials hard to be machined

 				Grade			
Type	Basic dimensions(mm)						
	W ± 0.025	b	L	S		M	
				YD101	YBG102	YBG202	YBG202
ZIGQ3N-NM	3	2.4	15.3		★		
ZIGQ4N-NM	4	3.2	15.3		★		
ZIGQ5N-NM	5	4	15.3		★		
ZIGQ6N-NM	6	5	15.3		★		

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Parting and grooving tools

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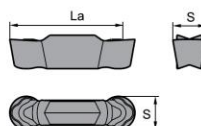
■ Profiling inserts for Al

A

General turning

Parting and grooving

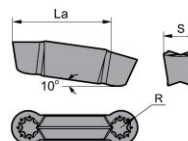
Little squirrel series parting and grooving inserts



Type	Basic dimensions(mm)		Grade
	$S \pm 0.02$	Cutting depth L_{max}	
ZRKD06-LH	6.0	19	★
ZRLD08-LH	8.0	22	★

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

■ Profiling inserts for Al



Type	Basic dimensions(mm)			Grade
	$S \pm 0.02$	R	Cutting depth L_{max}	
ZILD08-LC	8.0	4.0	22	●

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order



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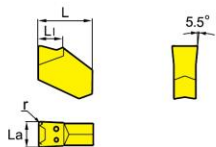
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Parting and grooving tools

Supplementary series parting and grooving inserts

TURNING

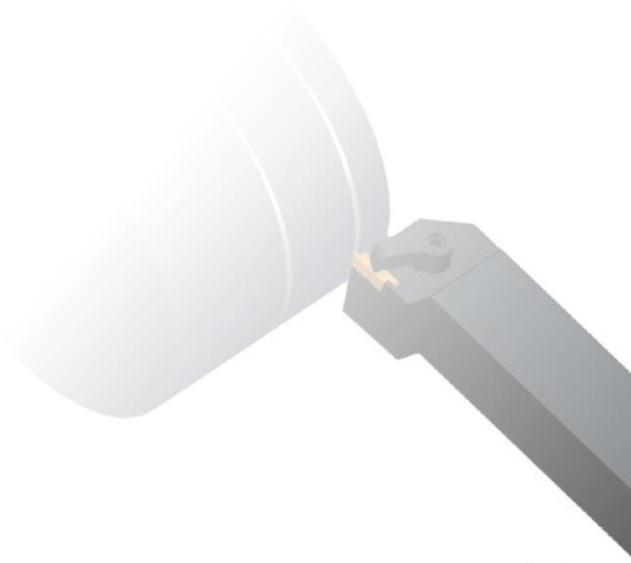
ZQMX series

Type	Basic dimensions(mm)				Grade						
	L1	La	r	L	P			M			K
					YBC251	YC10	YC40	YBC251	YC10	YC40	YD201
ZQMX3N11-1E	4.4	3.125	0.3	11	●	●	●	●	●	●	●
ZQMX4N11-1E	4.95	4.125	0.3	11	●		●	●		●	●
ZQMX5N11-1E	5	5.125	0.3	11	●		●	●		●	●
ZQMX6N11-1E	5.28	6.4	0.3	11	●		●	●		●	○
ZQMX7N11-1E	4.53	7.05	0.3	14			○				

★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

A
General turning
Parting and grooving
Supplementary series parting and grooving inserts



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