

CATALOG OF TUNGSTEN CARBIDE INSERTS

Anvils and Pressure Cylinders

Date of Preparation: 08/19/2011

Revision 2011

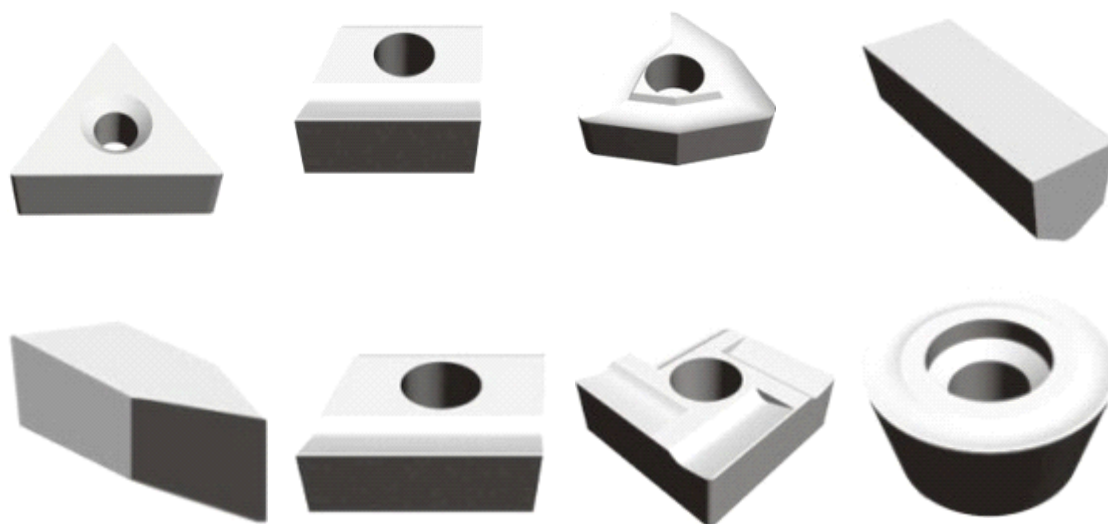
Reason for Issue: Updated Format

Chemical Name: Tungsten Carbide

Chemical Family: Refractory Metal (non-ferrous metal)

Chemical Formula: WC

Manufacturer: E-Biz Center of China Tungsten Industry Association



MORE INFORMATION

Web: www.carbide tungsten.com

Email: ebiz@ctia.com.cn

PRODUCTS CONTENTS

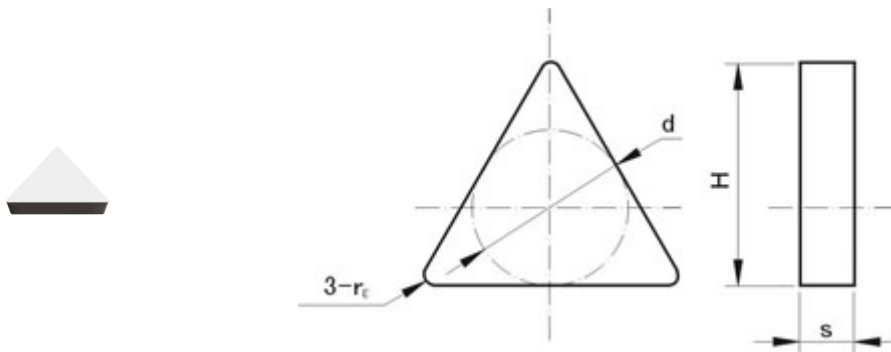
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Milling Inserts Type 30



Milling Inserts Type 30

For making turning, boring and milling tools



Type	Dimension(mm)				Approx unit weight(g)			
	d	s	r	H	YG6	YG8	YT5	YT14
304050	4.3	2.5	0.5	6.0	1.0	0.9	0.8	0.7
307050	7.4	3.0	0.5	10.6	3.1	3.0	2.7	2.4
310050	10.5	3.8	0.5	15.3	8.2	8.0	7.0	6.2
313050	13.5	4.8	0.5	19.8	17.4	17.1	14.9	13.3
316100	16.5	5.8	1.0	23.8	30.0	29.5	26.5	23.5

MORE INFORMATION

Web: www.carbideistungsten.com

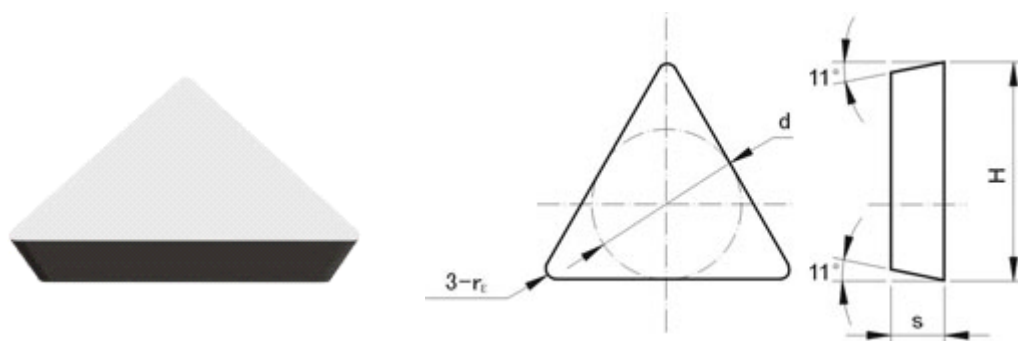
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Milling Inserts Type 311



Milling Inserts Type 311

For making end mills, three-edged mills & boring cutters



Type	Dimension(mm)				Approx unit weight(g)			
	d	s	H	r	YG6	YG8	YT5	YT14
3070551	7.4	3.3	10.6	0.5	3.1	3.0	2.7	2.4
3100511	10.5	3.8	15.2	0.5	7.1	6.9	6.2	5.7
3130511	13.5	4.8	19.7	0.5	15.8	15.5	3.6	12.3
3131011	13.5	4.8	19.7	1.0	15.6	15.3	3.2	11.9
3160511	16.5	5.8	24.2	0.5	29.0	28.4	24.9	22.1
3161011	16.5	5.8	24.2	1.0	28.8	28.2	24.2	21.3

MORE INFORMATION

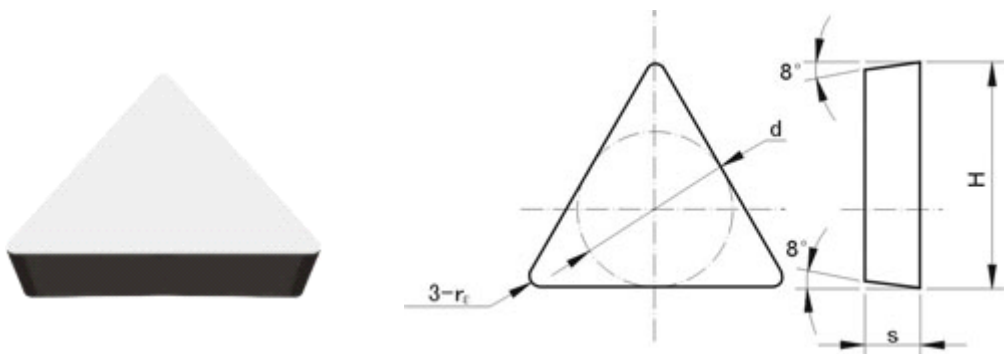
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Milling Inserts Type 38



Milling Inserts Type 38
For making end mills, three-edged mills and boring cutters



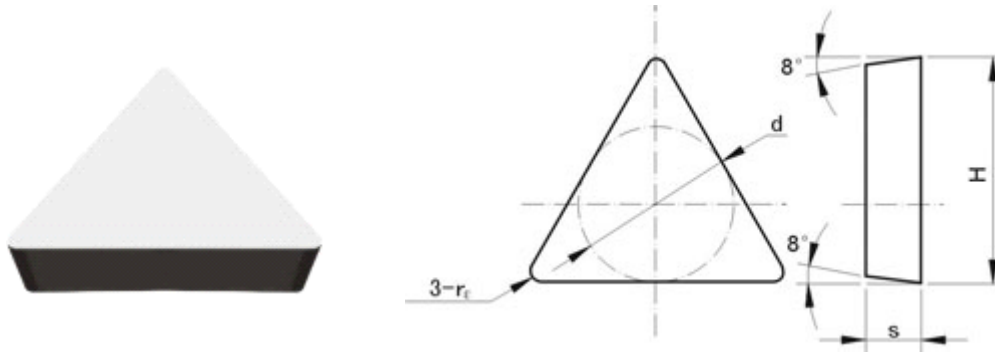
Type	Dimension(mm)				Approx unit weight(g)			
	d	s	r	H	YG6	YG8	YT5	YT14
307058	7.4	3.0	0.5	10.6	2.6	2.5	2.3	2.2
310058	10.5	3.8	0.5	15.3	7.4	7.3	6.4	5.7
313058	13.5	4.8	0.5	19.8	15.6	15.4	13.5	12.0
316058	16.5	5.8	0.5	24.3	28.6	28.3	24.7	21.9

Milling Inserts Type 38



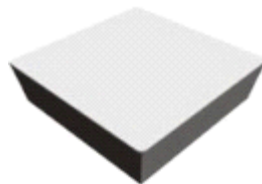
Milling Inserts Type 38

For making end mills, three-edged mills and boring cutters



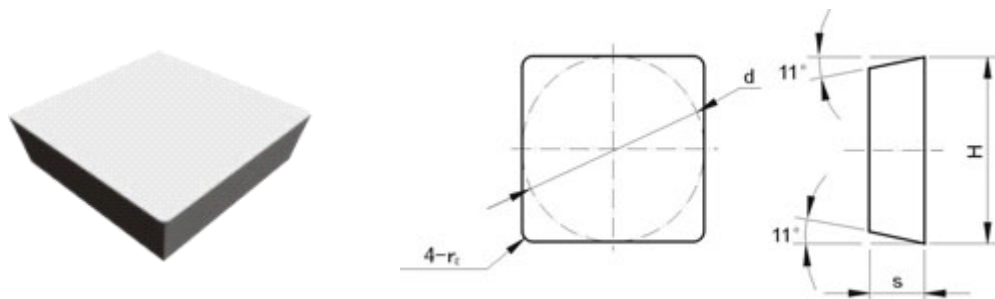
Type	Dimension(mm)				Approx unit weight(g)			
	d	s	r	H	YG6	YG8	YT5	YT14
307058	7.4	3.0	0.5	10.6	2.6	2.5	2.3	2.2
310058	10.5	3.8	0.5	15.3	7.4	7.3	6.4	5.7
313058	13.5	4.8	0.5	19.8	15.6	15.4	13.5	12.0
316058	16.5	5.8	0.5	24.3	28.6	28.3	24.7	21.9

Milling Inserts Type 411



Milling Inserts Type 411

For making end face mills

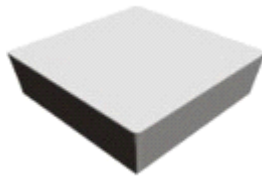


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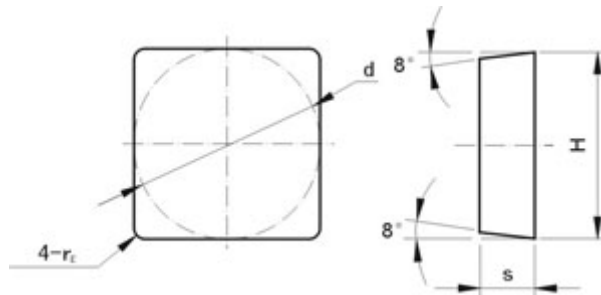
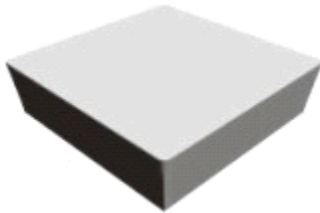
Email: ebiz@ctia.com.cn

Type	Dimension(mm)				Approx unit weight(g)			
	d	s	r	H	YG6	YG8	YT5	YT14
4160511	16.5	4.8	0.5	16.5	17.7	17.3	15.2	13.5
4161011	16.5	4.8	1.0	16.5	17.2	16.8	14.8	13.1
4161511	16.5	4.8	1.5	16.5	17.0	16.7	14.6	13.0
4190511	19.6	5.85	0.5	19.6	30.0	29.70	26.1	23.1
4251011	25.6	7.30	1.0	25.6	66.30	64.90	56.9	50.30



Milling Inserts Type 48

For making turning, boring and face milling tools



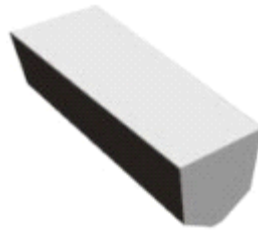
Type	Dimension(mm)				Approx unit weight(g)			
	d	s	r	H	YG6	YG8	YT5	YT14
410058	10.5	3.5	0.5	10.5	5.3	5.1	4.7	4.1
413108-1	13.5	3.9	1.0	13.5	9.60	9.43	8.30	7.30
413108	13.5	4.8	1.0	13.5	11.4	11.3	10.3	9.1
416108	16.5	4.8	1.0	16.5	17.9	17.7	15.5	13.7
419108	19.6	5.8	1.0	19.6	31.0	30.5	26.7	23.7
420108	20.6	7.3	1.0	20.6	50.0	49.0	43.0	38.2

MORE INFORMATION

Web: www.carbidestungsten.com

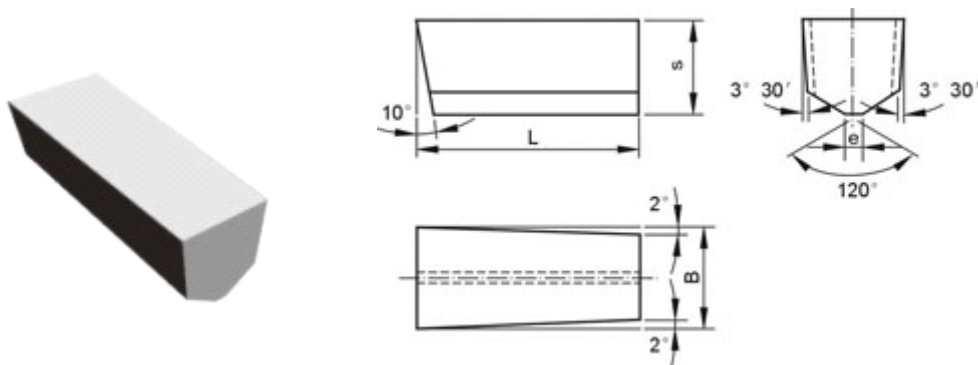
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Threading parting Inserts Type J1



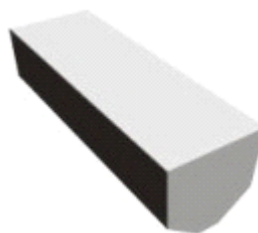
Threading parting Inserts Type J1

For making mechanically clamped cut-off cutters, grooving cutters with side clearance and side relief



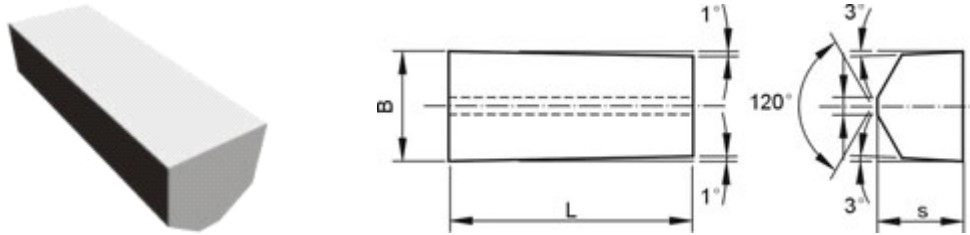
Type	Dimension(mm)				Approx unit weight(g)			
	B	s	L	e	YG6	YG8	YT5	YT14
J112	3.5	3.0	12.3	0.5	1.6	1.5	1.4	1.2
J112A	4.5	4.0	12.3	0.5	2.9	2.8	2.5	2.2
J114	5.5	5.0	14.3	1.0	5.3	5.1	4.5	4.0
J114A	6.5	6.0	14.3	1.0	7.6	7.4	6.5	5.8

Threading parting Inserts Type J2



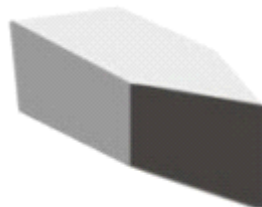
Threading parting Inserts Type J2

For making mechanically clamped cutoff tools and grooving tools



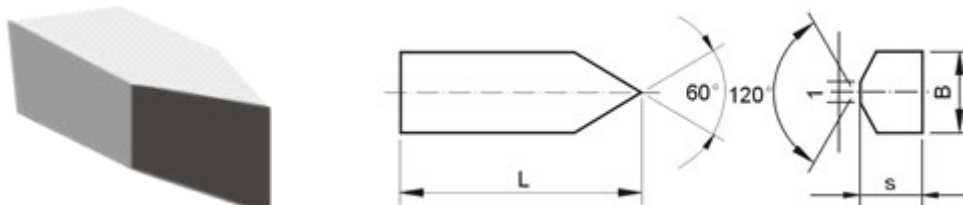
Type	Dimension(mm)			Approx unit weight(g)			
	B	s	L	YG6	YG8	YT5	YT14
J200	3.5	4.0	13.0	2.3	2.2	2.0	1.7
J201	4.5	4.0	15.0	3.5	3.4	3.0	2.6
J203	5.5	5.0	18.0	6.3	6.1	5.4	4.8
J205	8.0	7.0	22.0	14.8	14.6	13.3	11.8
J207	10.0	8.0	25.0	23.8	23.6	21.1	18.7
J209	12.5	10.0	28.0	42.0	41.0	36.5	32.4
J211	16.5	12.0	30.0	70.5	69.0	60.9	54.1

Threading parting Inserts Type M60



Threading parting Inserts Type M60

For making 60° threading tools



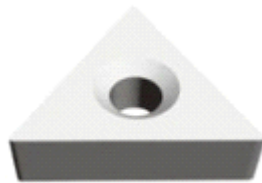
MORE INFORMATION

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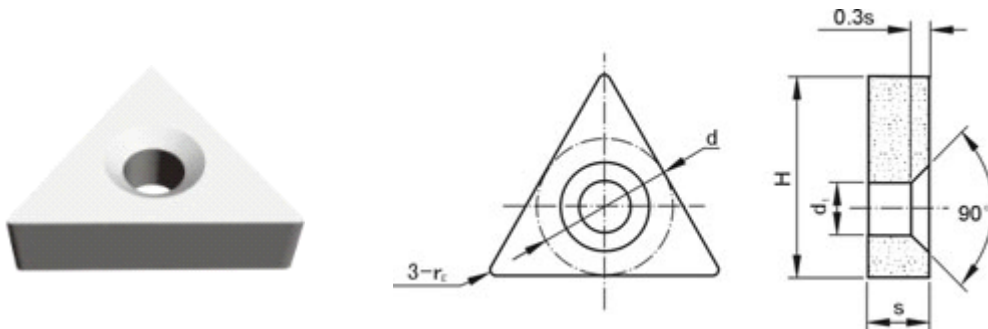
Type	Dimension(mm)			Approx unit weight(g)			
	L	B	s	YG6	YG8	YT5	YT14
M606	20.4	6.0	4.8	6.8	6.7	6.0	5.4
M608	24.4	8.0	6.3	13.7	13.5	12.2	10.8

Indexable Inserts Type 3N



Indexable Inserts Type 3N

For making end mills with tool holder, drills with coolant channels, core drills



Type	Dimension(mm)					Approx unit weight(g)			
	d	s	r	d1	H	YG6	YG8	YT5	YT14
31005N	10.0	4.5	0.5	4.2	14.5	7.7	7.5	6.6	5.9
31305N	13.0	5.5	0.5	5.2	19.0	15.8	15.6	13.5	12.0
31605N	16.0	7.0	0.5	6.2	23.5	30.9	30.1	26.9	23.9
31910N	19.0	8.5	1.0	7.2	27.5	52.0	51.0	45.7	40.6

MORE INFORMATION

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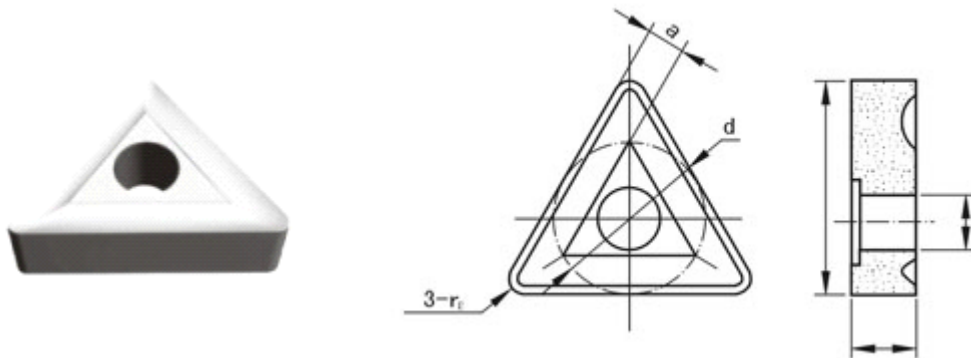
Email: ebiz@ctia.com.cn

Indexable Inserts Type 3V



Indexable Inserts Type 3V

For making internal and external tools, threading tools and grooving tools



Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d	H	YG6	YG8	YT5	YT14
31005V	10.0	4.5	0.5	2.4	4.2	14.5	7.3	7.2	6.4	5.7
31310V	13.0	5.5	1.0	3.4	5.2	18.5	15.0	14.7	13.11	11.6
31320V	13.0	5.5	2.0	3.4	5.2	17.5	14.8	14.5	12.7	11.1
31605V	16.0	7.0	0.5	4.4	6.2	23.5	30.0	29.6	25.6	22.8
31620V	16.0	7.0	2.0	4.4	6.2	22.0	28.2	27.8	25.0	22.2
31910V	19.0	8.5	1.0	5.4	7.2	27.5	51.0	50.0	44.1	39.2
31920V	19.0	8.5	2.0	5.4	7.2	26.5	52.0	51.0	44.7	38.8

MORE INFORMATION

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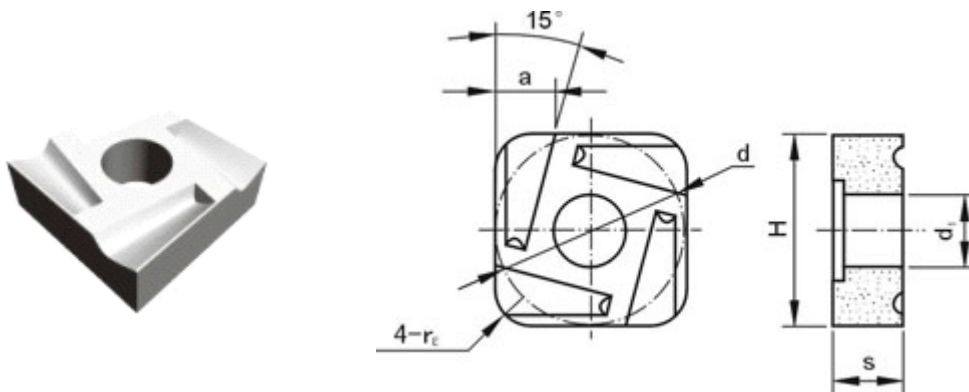
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Indexable Inserts Type 3Y



Indexable Inserts Type 3Y

For making 75°,45°internal and face turning tools and boring tools, particularly suitable for machining bearing steel in bearing industry



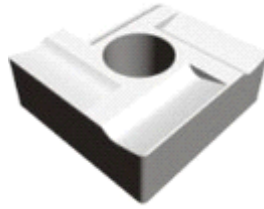
Type	Dimension(mm)						Approx unit weight(g)			
	d	H	s	r	a≈	d1	YG6	YG8	YT5	YT14
41620Y	16.0	16.0	5.5	2.0	5.0	6.2	17.6	17.3	15.2	13.5
41620YL										
41930Y	19.0	19.0	7.0	3.0	6.0	7.2	30.9	30.4	27.1	24.1
41930Y L										

MORE INFORMATION

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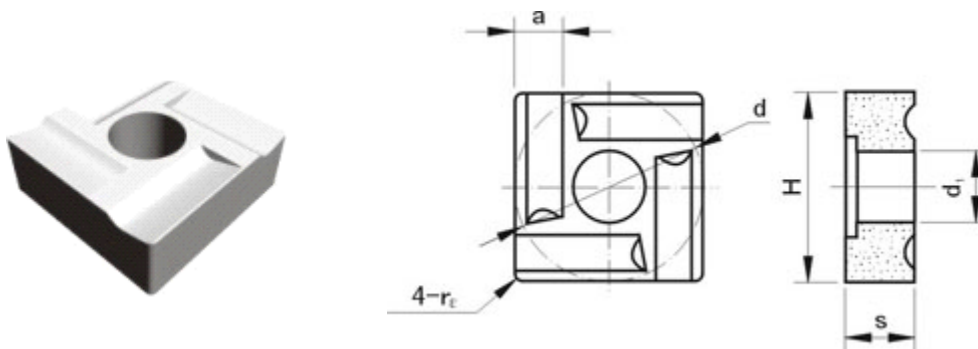
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Indexable Inserts Type 4A



Indexable Inserts Type 4A

For making left & right hand, internal & external end face turning tools with offset shank



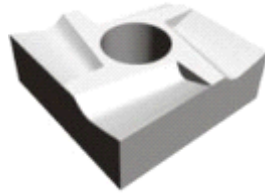
Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
41005A	10.0	3.5	0.5	2.4	4.2	10.0	4.3	4.2	3.6	3.2
41005AL										
41305A	13.0	4.5	0.5	3.4	5.2	13.0	9.6	9.4	7.9	7.0
41305AL										
41315A	13.0	4.5	1.5	3.4	5.2	13.0	9.4	9.2	7.6	6.8
41315AL										
41605A	16.0	5.5	0.5	4.4	6.2	16.0	17.4	17.2	15.0	13.3
41605AL										
41905A	19.0	7.0	0.5	5.4	7.2	19.0	31.0	30.5	27.4	24.3
41905AL										

MORE INFORMATION

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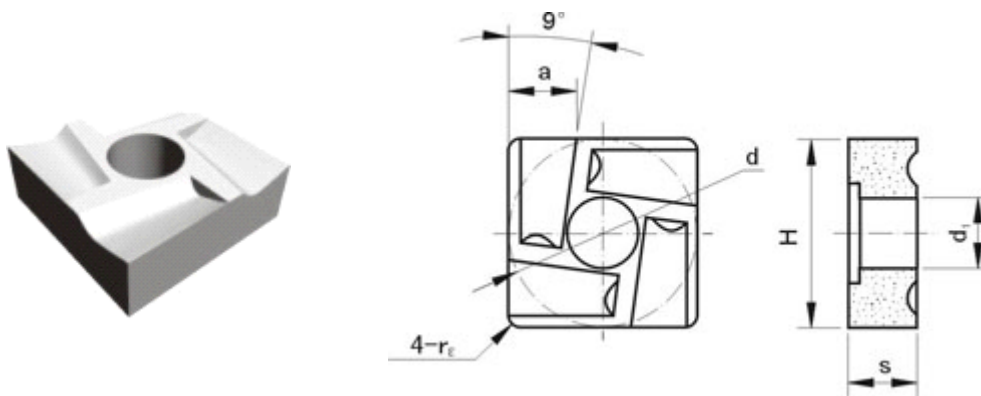
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Indexable Inserts Type 4D



Indexable Inserts Type 4D

For making 75°,45°external and surface turning and boring tools with wide groove, suitable for heavy feed machining



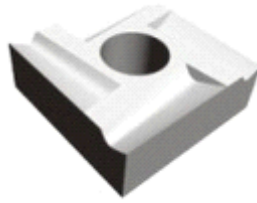
Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
41305D	13.0	4.5	0.5	4.4	5.2	13.0	9.2	9.0	7.9	7.0
41305D L										
41610D	16.0	5.5	1.0	5.5	6.2	16.0	17.2	17.0	14.7	13.0
41610D L										
41910D	19.0	7.0	1.0	6.8	7.2	19.0	31.0	30.6	26.4	23.5
41910D L										

MORE INFORMATION

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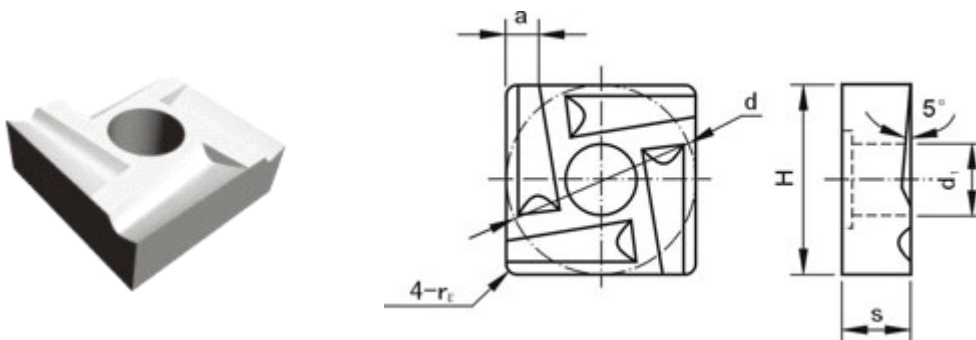
Email: ebiz@ctia.com.cn

Indexable Inserts Type 4F



Indexable Inserts Type 4F

For making left & right hand, internal & external turning tools with offset shank and small radial stress, suitable for machining thin and long shafts



Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a $\approx$	d1	H	YG6	YG8	YT5	YT14
41005F	10.0	3.5	0.5	2.4	4.2	10.0	4.1	4.0	3.4	3.0
41005FL										
41305F	13.0	4.5	0.5	3.4	5.2	13.0	8.9	8.7	7.7	6.8
41305FL										
41605F	16.0	5.5	0.5	4.4	6.2	16.0	16.3	16.0	14.4	12.8
41605FL										
41905F	19.0	7.0	0.5	5.4	7.2	19.0	30.0	29.5	26.4	23.5
41905FL										

MORE INFORMATION

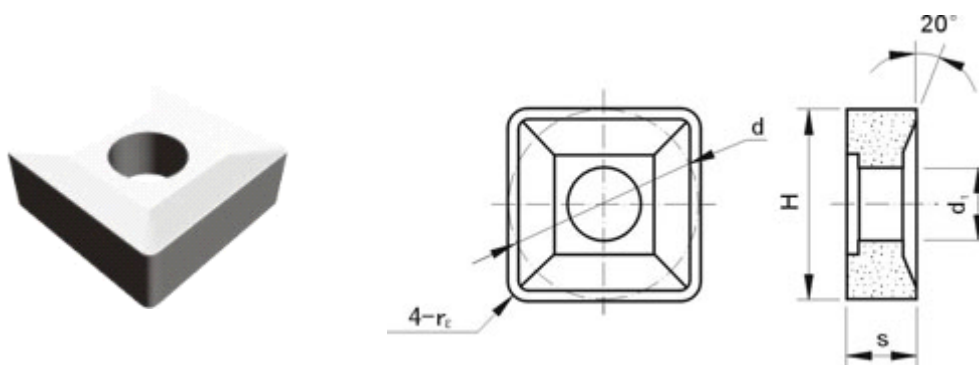
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Email: ebiz@ctia.com.cn

Indexable Inserts Type 4G

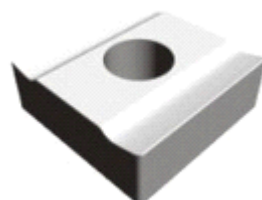


Indexable Inserts Type 4G
For making cast iron turning tools



Type	Dimension(mm)					Approx unit weight(g)			
	d	s	r	d1	H	YG6	YG8	YT5	YT14
41310G	13.0	4.5	1.0	5.2	13.0	8.5	8.3	7.4	6.6
41610G	16.0	5.5	1.0	6.2	16.0	16.1	15.8	14.0	12.4
41915G	19.0	7.0	1.5	7.2	19.0	29.4	29.0	25.5	22.6

Indexable Inserts Type 4H

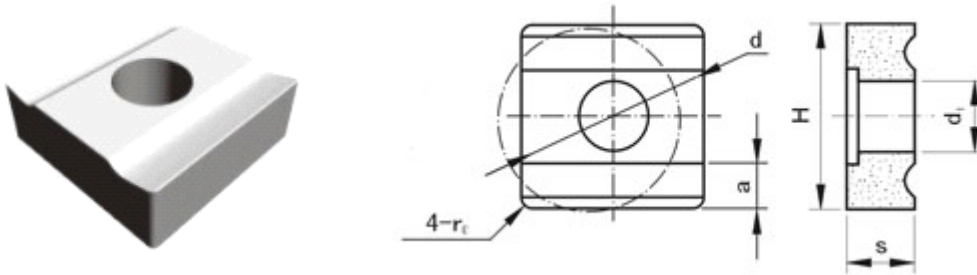


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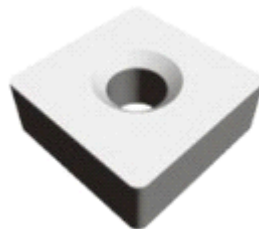
Indexable Inserts Type 4H

For making internal & external, end face and internal & external chamfered tools



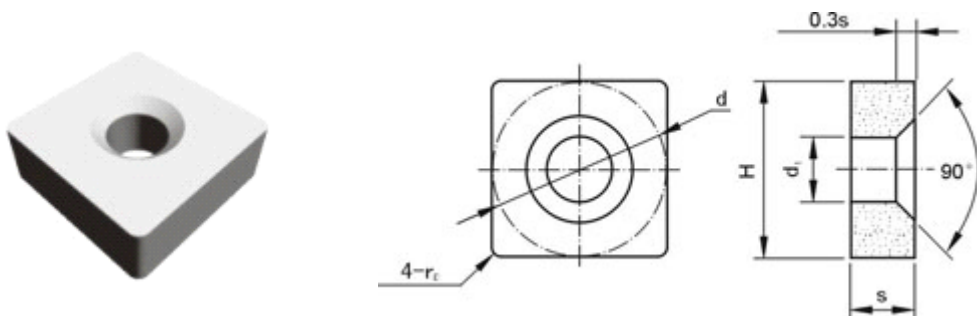
Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
41002H	10.0	3.5	0.2	2.4	4.2	10.0	4.3	4.2	3.7	3.3
41305H	13.0	4.5	0.5	3.4	5.2	13.0	9.0	8.8	8.0	7.1
41605H	16.0	5.5	0.5	4.4	6.2	16.0	17.8	17.5	15.3	13.6
41610H	16.0	5.5	1.0	4.4	6.2	16.0	17.1	16.8	15.1	13.4
41910H	19.0	6.5	1.0	5.4	7.2	19.0	19.1	28.8	25.6	22.8
42510H	25.0	9.0	1.0	10.0	9.0	25.0				

Indexable Inserts Type 4N



Indexable Inserts Type 4N

For making drills with coolant channels, core drills and spiral corn milling cutters



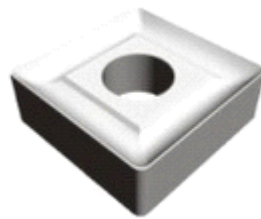
MORE INFORMATION

Web: www.carbideungsten.com

Email: ebiz@ctia.com.cn

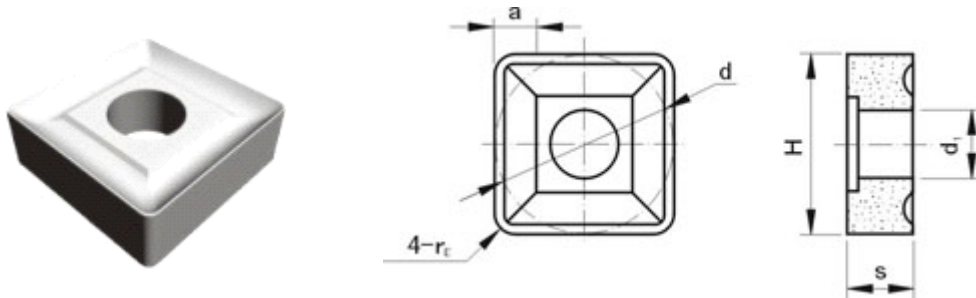
Type	Dimension(mm)					Approx unit weight(g)			
	d	s	r	d1	H	YG6	YG8	YT5	YT14
41005N	10.0	3.5	0.5	4.2	10.0	4.3	4.2	3.7	3.3
41305N	13.0	4.5	0.5	5.2	13.0	9.9	9.7	8.3	7.3
41605N	16.0	5.5	0.5	6.2	16.0	18.2	17.9	15.7	13.9
41620N	16.0	5.5	2.0	6.2	16.0	17.8	17.4	15.4	13.7
41910N	19.0	7.0	1.0	7.2	19.0	32.5	32.0	28.0	24.8

Indexable Inserts Type 4V



Indexable Inserts Type 4V

For making left & right hand, internal & external turning and planing tools with offset shank



Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
41005V	10.0	3.5	0.5	24.	4.2	10.0	4.4	4.3	3.6	3.2
41310V	13.0	4.5	1.0	3.4	5.2	13.0	9.3	9.1	7.8	6.9
41610V	16.0	5.5	1.0	4.4	6.2	16.0	17.3	17.0	15.1	13.4
41620V	16.0	5.5	2.0	4.4	6.2	16.0	16.9	16.6	14.5	12.9
41910V	19.0	7.0	1.0	5.4	7.2	19.0	31.0	30.5	26.9	23.9
41920V	19.0	7.0	2.0	5.4	7.2	19.0	30.5	30.1	26.7	23.9

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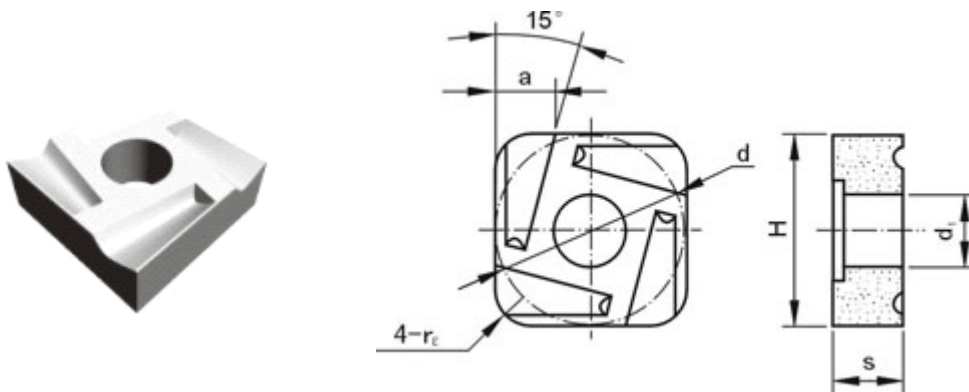
Email: ebiz@ctia.com.cn

Indexable Inserts Type 3Y



Indexable Inserts Type 3Y

For making 75°, 45° internal and face turning tools and boring tools, particularly suitable for machining bearing steel in bearing industry



Type	Dimension(mm)						Approx unit weight(g)			
	d	H	s	r	a≈	d1	YG6	YG8	YT5	YT14
41620Y	16.0	16.0	5.5	2.0	5.0	6.2	17.6	17.3	15.2	13.5
41620YL										
41930Y	19.0	19.0	7.0	3.0	6.0	7.2	30.9	30.4	27.1	24.1
41930Y L										

MORE INFORMATION

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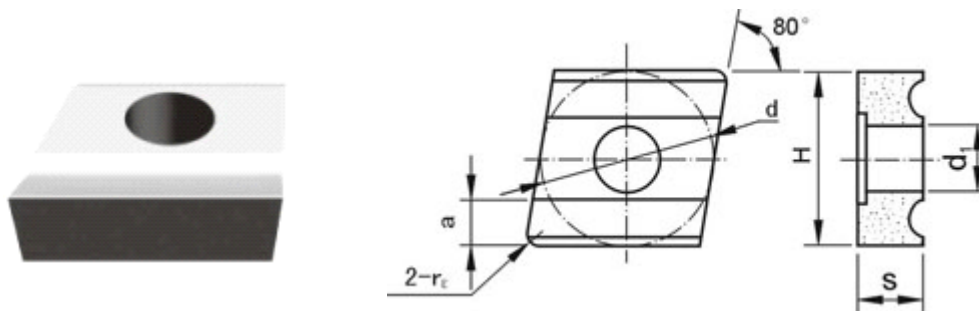
Email: ebiz@ctia.com.cn

Indexable Inserts Type CH



Indexable Inserts Type CH

For making 90°, 75° turning and boring tools, suitable for roughing or semi-finishing of bearing and parts with holes due to long cutting edge and wide edge angle



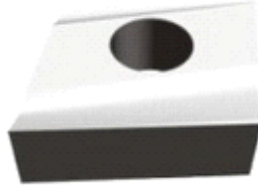
Type	Dimension(mm)						Approx unit weight(g)			
	d	s	H	r	a	d1	YG6	YG8	YT5	YT14
C1305H	13.0	4.5	13.0	0.5	4.5	5.2	10.9	10.6	9.4	8.3
C1305HL										
C1610H	16.0	5.5	16.0	1.0	5.3	6.2	17.8	17.5	15.7	13.5
C1610H L										
C1910H	19.0	7.0	19.0	1.0	6.0	7.2	32.5	32.5	27.4	24.3
C1910H L										

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Web: www.carbidekungsten.com

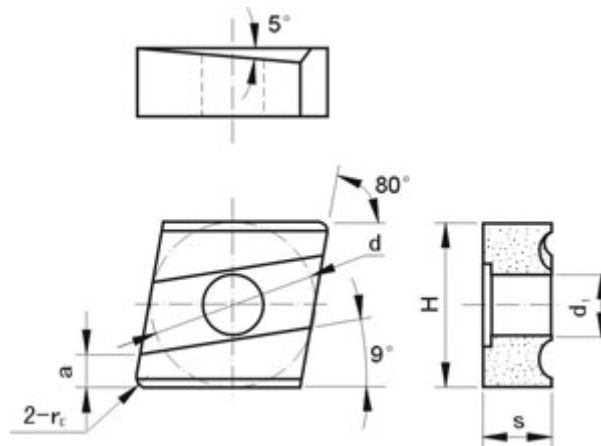
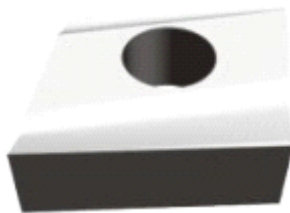
Email: ebiz@ctia.com.cn

Indexable Inserts Type CL



Indexable Inserts Type CL

For making 90° turning, boring and milling tools with small radial force and good chip cut off effect



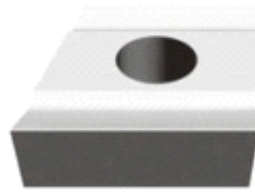
Type	Dimension(mm)						Approx unit weight(g)			
	d	s	H	r	a≈	d1	YG6	YG8	YT5	YT14
C1005L	10.0	3.5	10.0	0.5	2.0	4.2	4.2	4.1	3.4	3.0
C1005LL										
C1305L	13.0	4.5	13.0	0.5	3.0	5.2	8.7	8.5	7.5	6.6
C1305LL										
C1610L	16.0	5.5	16.0	1.0	4.5	6.2	16.0	15.8	13.8	12.2
C1610LL										
C1910L	19.0	8.0	19.0	1.0	5.5	7.2	33.0	32.5	29.2	25.9
C1910LL										

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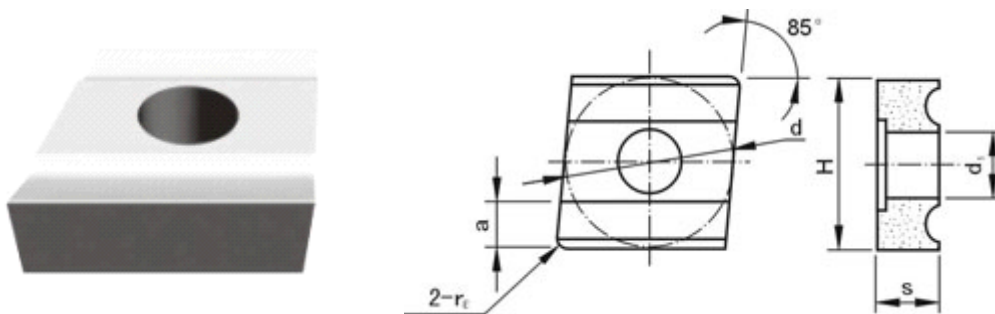
Email: ebiz@ctia.com.cn

Indexable Inserts Type MH



Indexable Inserts Type MH

For making 90° turning tools. Suitable for percussion and continuous cutting conditions



Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
M1610H	16.0	5.5	1.0	5.3	6.2	16.0	17.8	17.5	14.9	13.2
M1610HL										
M1910H	19.0	7.0	1.0	6.0	7.2	19.0	31.0	30.5	27.2	24.1
M1910H L										

Indexable Inserts Type R



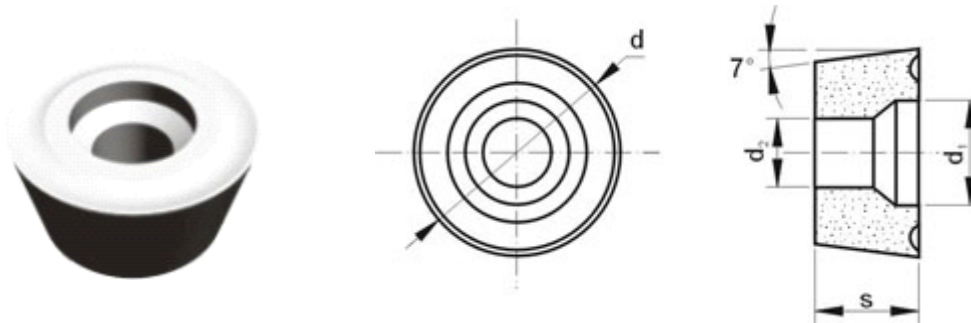
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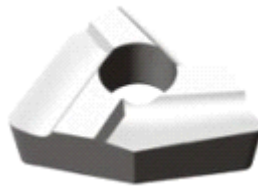
Indexable Inserts Type R

For making tools for ball bearing guides and profile tools with countersunk hole, easy clamping



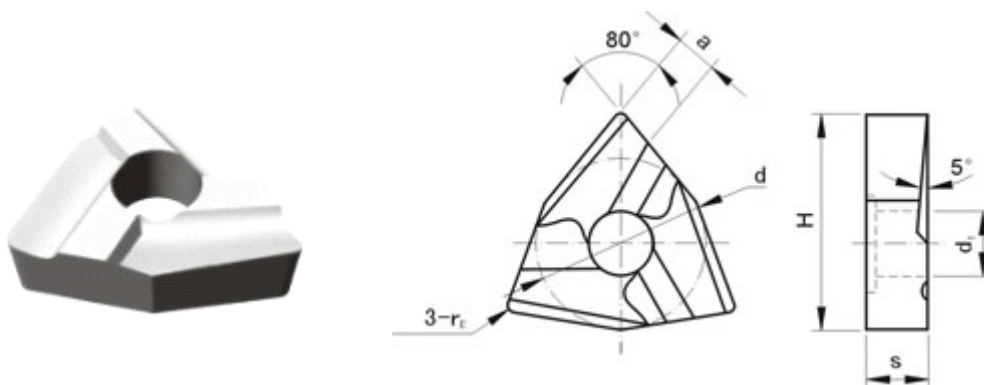
Type	Dimension(mm)				Approx unit weight(g)			
	d	d1	d2	s	YG6	YG8	YT5	YT14
R12-V2	12.0	6.0	4.0	6.0	7.1	7.0	6.4	5.7

Indexable Inserts Type T3F



Indexable Inserts Type T3F

For making left & right hand, internal & external end face turning tools and planing tools with offset shank



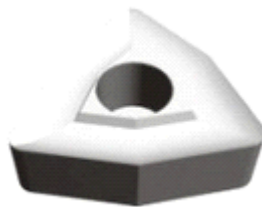
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Email: ebiz@ctia.com.cn

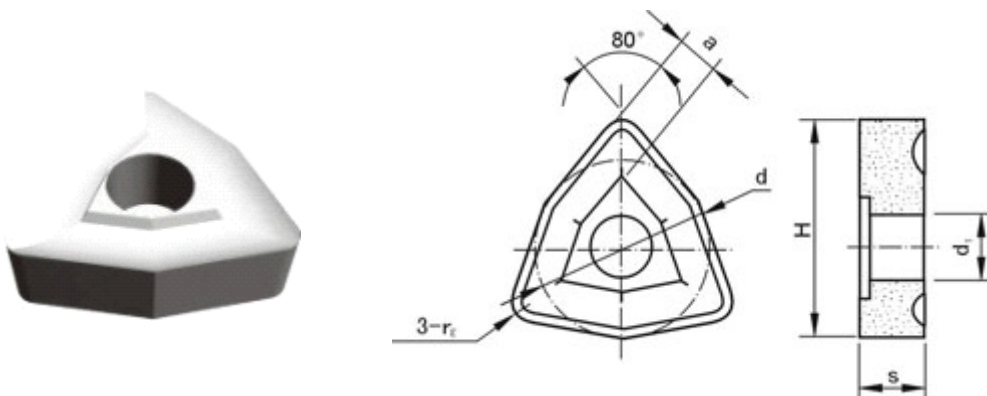
Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
T31005F	10.0	3.5	0.5	2.4	4.2	12.6	4.2	4.2	3.7	3.3
T31005FL										
T31305F	13.0	4.5	0.5	3.4	5.2	16.4	9.2	9.1	7.9	7.0
T31305FL										
T31605F	16.0	5.5	0.5	4.4	6.2	20.3	17.2	17.0	14.6	13.0
T31605FL										
T31905F	19.0	7.0	0.5	5.4	7.2	24.2	30.8	30.5	26.8	23.8
T31905FL										

Indexable Inserts Type T3V



Indexable Inserts Type T3V

For making internal & external turning tools, boring tools, forming tools and planning tools



Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
T31005V	10.0	3.5	0.5	2.4	4.2	12.6	4.4	4.3	3.9	3.5

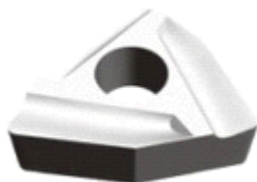
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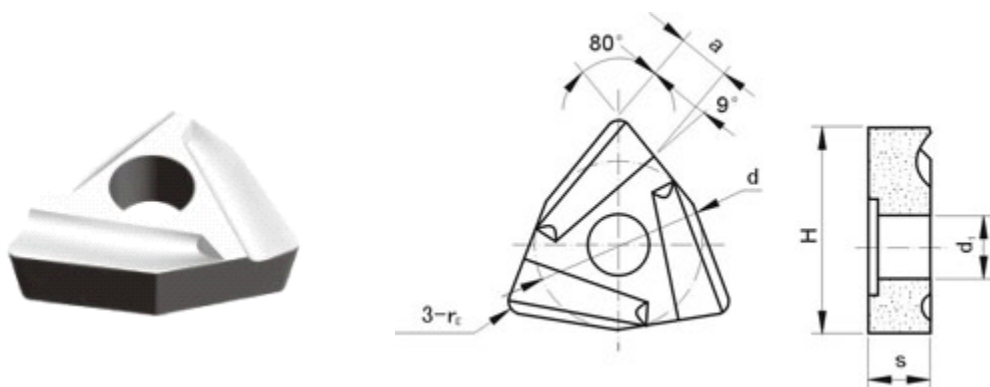
T31310V	13.0	4.5	1.0	3.4	5.2	16.1	9.5	9.4	8.3	7.3
T31610V	16.0	5.5	1.0	4.4	6.2	20.0	17.7	17.5	17.3	17.2
T31612V	16.0	5.5	2.0	4.4	6.2	19.5	18.3	18.0	13.6	13.2
T31920V	19.0	7.0	2.0	5.4	7.2	23.3	31.8	31.5	24.5	24.0

Indexable Inserts Type T3Y



Indexable Inserts Type T3Y

For making 90° internal and boring tools, suitable for heavy feed roughing



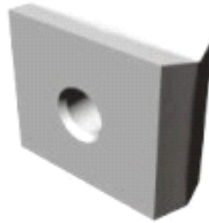
Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
T31310Y	13.0	4.5	1.0	5.0	5.2	16.1	9.7	9.5	7.9	7.1
T31310Y L										
T31610Y	16.0	5.5	1.0	6.5	6.2	20.0	17.3	17.0	14.6	13.2
T31610YL										
T31910Y	19.0	7.0	1.0	7.0	7.2	23.9	31.8	31.5	27.4	24.3
T31910YL										

MORE INFORMATION

Web: www.carbideistungsten.com

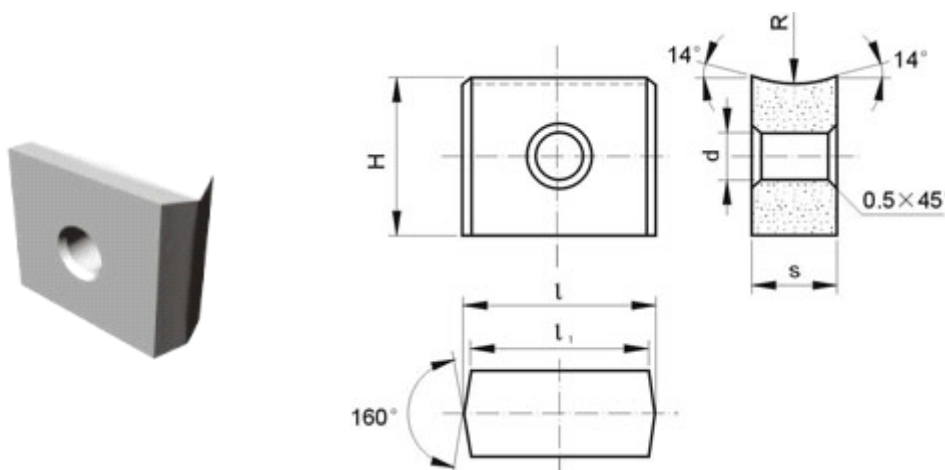
Email: ebiz@ctia.com.cn

Indexable Inserts Type ZL



Indexable Inserts Type ZL

For making mechanically clamped heavy-duty tools, suitable for large lathes or vertical lathes



Type	Dimension(mm)						Approx unit weight(g)			
	l1	l	d	s	H	R	YG6	YG8	YT5	YT14
ZL25	25.0	27.0	6.5	12.0	22.0	20.0	102.0	100.0	87.9	78.0
ZI40	40.0	42.0	6.5	12.0	22.0	20.0	161.0	159.0	139.0	123.4

MORE INFORMATION

Web: www.carbide tungsten.com

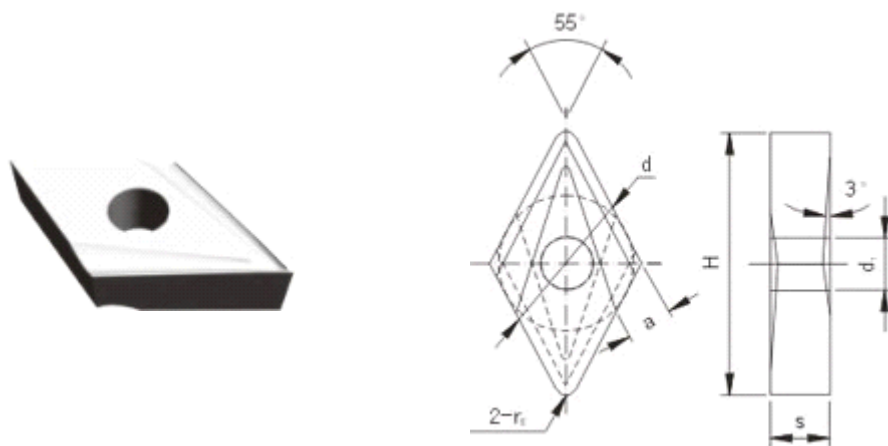
Email: ebiz@ctia.com.cn

Indexable Inserts Type 2C



Indexable Inserts Type 2C

For making turning and threading tools for CNC and profiles machines



Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
21305C	13.0	5.5	0.5	3.0	5.2	27.0	13.7	13.5	12.1	10.7
21315C	13.0	5.5	1.5	3.0	5.2	24.7	13.5	13.3	11.8	10.5
21615C	16.0	7.0	1.5	4.2	6.2	31.2	25.8	25.4	22.9	20.3

MORE INFORMATION

Web: www.carbide tungsten.com

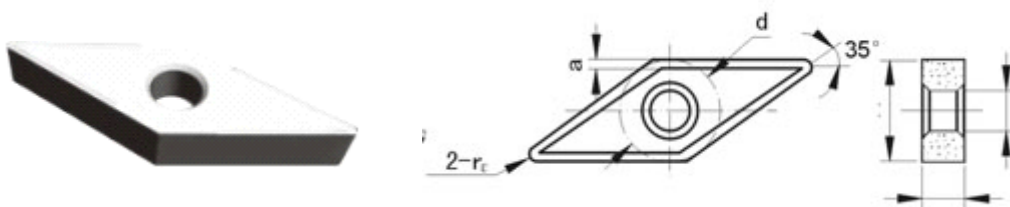
Email: ebiz@ctia.com.cn

Indexable Inserts Type 2V



Indexable Inserts Type 2V

For making turning tools for CNC and profiles machines, with double-sided groove and long cutting edge.



Type	Dimension(mm)						Approx unit weight(g)			
	d	H	s	r	a	d1	YG6	YG8	YT5	YT14
21008V	10.0	10.0	4.4	0.8	1.2	4.2	10.0	9.8	8.8	7.8
21310V	13.0	13.0	5.5	1.0	1.4	5.2	21.2	20.8	17.6	15.8

Indexable Inserts Type 3A



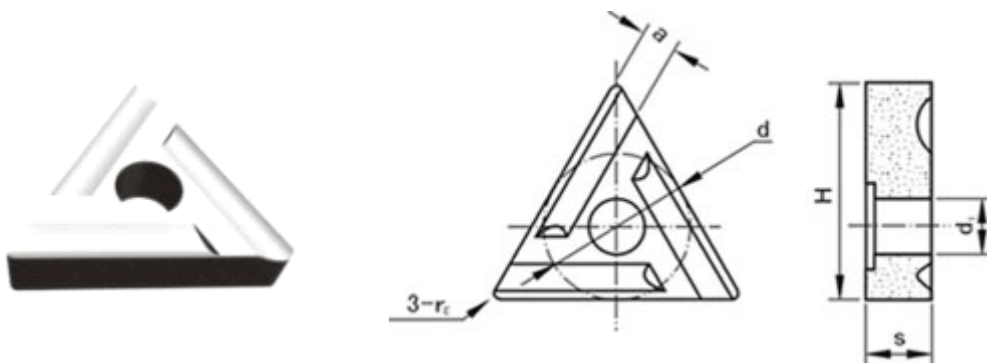
Indexable Inserts Type 3A

For making left & right hand, external turning tools and boring tools with offset shank.

MORE INFORMATION

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Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
31005A	10.0	4.5	0.5	2.4	4.2	14.5	7.5	7.4	6.4	5.7
31005AL										
31305A	13.0	5.5	0.5	3.4	5.2	19.0	15.7	15.5	13.4	11.9
31305AL										
31605A	16.0	7.0	0.5	4.4	6.2	23.5	30.0	29.7	26.1	23.2
31605AL										
31905A	19.0	8.5	0.5	5.4	7.2	28.0	52.0	51.0	44.6	39.6
31905AL										

Indexable Inserts Type 3C



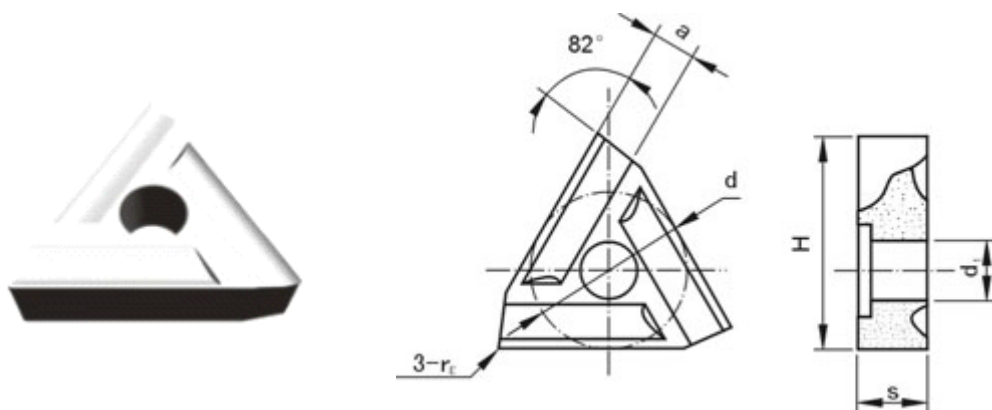
Indexable Inserts Type 3C

For making left & right hand, external turning tools and boring tools with offset shank

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Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
31003C	10.0	4.5	0.3	2.4	4.2	14.0	7.4	7.2	6.3	5.6
31003CL										
31303C	13.0	5.5	0.3	3.4	5.2	18.2	15.3	15.1	13.0	11.5
31303CL										
31603C	16.0	7.0	0.3	4.4	6.2	22.6	29.5	29.2	25.7	22.9
31603CL										
31905C	19.0	8.5	0.5	5.4	7.2	26.0	49.5	49.0	43.0	38.2
31905CL										

Indexable Inserts Type 3D



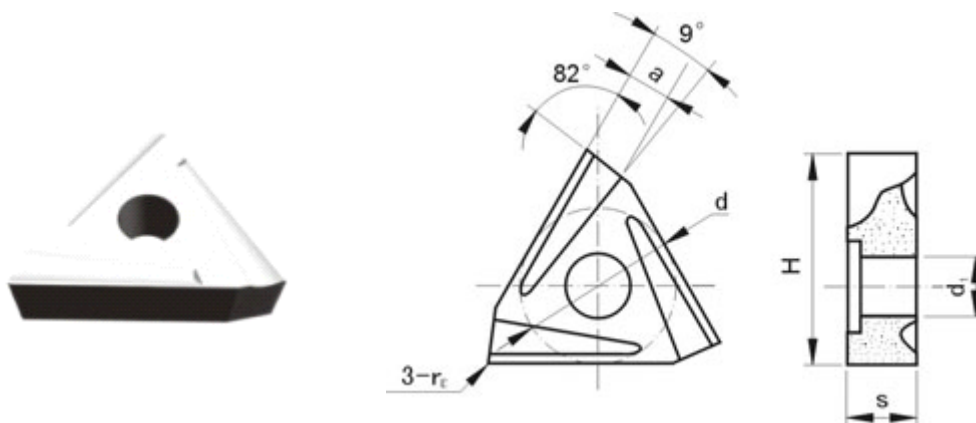
Indexable Inserts Type 3D

For making left & right hand, external turning tools and boring tools with offset shank

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Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
31003D	10.0	4.5	0.3	3.4	4.2	14.0	7.5	7.3	6.3	5.6
31003DL										
31303D	13.0	5.5	0.3	4.4	5.2	18.2	15.3	15.0	13.2	11.7
31303DL										
31603D	16.0	7.0	0.3	5.0	6.2	22.6	29.3	29.0	25.6	22.8
31603DL										
31905D	19.0	8.5	0.5	5.7	7.2	26.0	48.5	48.0	43.4	38.6
31905DL										

Indexable Inserts Type 3F



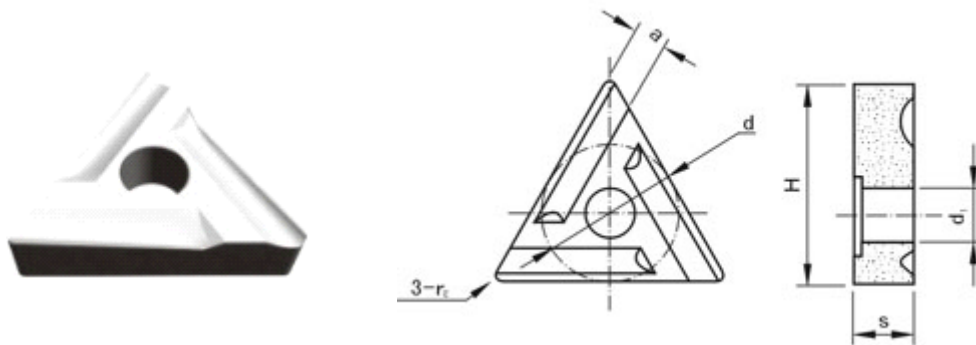
Indexable Inserts Type 3F

For making left & right hand, internal & external turning tools with offset shank and small radial stress, particularly suitable for making thin and long shafts

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Type	Dimension(mm)						Approx unit weight(g)			
	d	s	r	a≈	d1	H	YG6	YG8	YT5	YT14
31005F	10.0	4.5	0.5	2.4	4.2	14.5	7.0	6.8	6.2	5.5
31005FL										
31305F	13.0	5.5	0.5	3.4	5.2	19.0	15.0	14.8	12.9	11.4
31305FL										
31310F	13.0	5.5	1.0	4.4	5.2	18.5	14.5	14.2	12.7	11.3
31310FL										
31610F	16.0	7.0	1.0	5.4	6.2	23.0	28.4	28.0	24.3	21.5
31610FL										

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