

Tool Bits

Styles AL & AR - Straight Turning Tools

- Feed AR from right to left
- Feed AL from left to right
- 0° side cutting edge angle
- A lead angle can be ground on the side cutting edge for use on shallow cuts or
- Great for boring, turning, and square shoulder facing



Grade - C2				
Hand of Tool - Left				
Part No.	Shank Size	Length	Nose Radius	Series
0304402	7/16"	2-1/2"	1/64"	AR-6
0304403	1/2"	3"	1/32"	AR-7
0304404	5/8"	3-1/2"	1/32"	AR-8
0304405	3/4"	4"	1/32"	AR-10
0304406	1"	4-1/2"	1/32"	AR-12
0304407	1"	7"	1/32"	AR-16
0304461	5/16"	2"	1/64"	AL-4
0304462	3/8"	2-1/4"	1/64"	AL-5

Grade - C2				
Hand of Tool - Neutral				
Part No.	Shank Size	Length	Nose Radius	Series
0304463	7/16"	2-1/2"	1/64"	AL-6
0304464	1/2"	3"	1/32"	AL-7
0304465	5/8"	3-1/2"	1/32"	AL-8
0304466	3/4"	4"	1/32"	AL-10
0304467	1"	4-1/2"	1/32"	AL-12
0304468	1"	7"	1/32"	AL-16

Grade - C2				
Hand of Tool - Right				
Part No.	Shank Size	Length	Nose Radius	Series
0304400	1/4"	2"	1/64"	AR-4
0304401	3/8"	2-1/4"	1/64"	AR-5

Grade - C5				
Hand of Tool - Left				
Part No.	Shank Size	Length	Nose Radius	Series
0303675	5/16"	2"	1/64"	AL-4
0303676	3/8"	2-1/4"	1/64"	AL-5
0303677	3/8"	2-1/2"	1/64"	AL-6
0303678	7/16"	3"	1/32"	AL-7
0303679	1/2"	3-1/2"	1/32"	AL-8
0303680	5/8"	4"	1/32"	AL-10
0303681	3/4"	4-1/2"	1/32"	AL-12
0303682	1"	7"	1/32"	AL-16

Grade - C5				
Hand of Tool - Right				
Part No.	Shank Size	Length	Nose Radius	Series
0303666	1/4"	2"	1/64"	AR-4
0303667	5/16"	2-1/4"	1/64"	AR-5
0303668	3/8"	2-1/2"	1/64"	AR-6
0303669	7/16"	3"	1/32"	AR-7
0303670	1/2"	3-1/2"	1/32"	AR-8
0303671	5/8"	4"	1/32"	AR-10
0303672	3/4"	4-1/2"	1/32"	AR-12
0303673	1"	7"	1/32"	AR-16

Style C - Square Nose Utility Tool

- 0° square nose
- Allows for right or left hand cutting
- For use in Forming, turning, facing, chamfering, and grooving applications

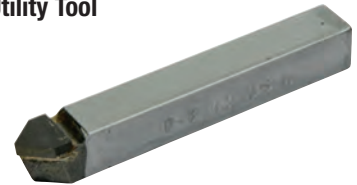


Grade - C2				
Part No.	Shank Size	Length	Nose Radius	Series
0304641	5/16"	2"	1/64"	C-4
0304642	3/8"	2-1/4"	1/64"	C-5
0304643	7/16"	2-1/2"	1/64"	C-6
0304644	5/8"	3"	1/64"	C-7
0304645	3/4"	3-1/2"	1/32"	C-8
0304646	3/4"	4"	1/32"	C-10
0304647	1/4"	4-1/2"	1/32"	C-12
0304648	1/4"	7"	1/32"	C-16

Grade - C5				
Part No.	Shank Size	Length	Nose Radius	Series
0303702	1/4"	2"	-	C-4
0303703	5/16"	2-1/4"	-	C-5
0303704	3/8"	2-1/2"	-	C-6
0303705	1/4"	3"	1/32"	C-7
0303706	1/2"	3-1/2"	1/32"	C-8
0303707	5/8"	4"	1/32"	C-10
0303708	3/4"	4-1/2"	1/32"	C-12
0303709	1"	7"	1/32"	C-16

Style D - Pointed Nose Utility Tool

- 80° included angle
- Allows for right or left hand cutting
- For use in light turning, undercutting, chamfering, and boring applications



Grade - C2				
Part No.	Shank Size	Length	Nose Radius	Series
0304704	5/16"	2"	1/64"	D-4
0304705	3/8"	2-1/4"	1/64"	D-5
0304706	7/16"	2-1/2"	1/64"	D-6
0304707	1/2"	3"	1/32"	D-7
0304708	1/4"	3-1/2"	1/32"	D-8
0304709	3/4"	4"	1/32"	D-10
0304710	1/4"	4-1/2"	1/32"	D-12
0304711	5/16"	7"	1/32"	D-16

Grade - C5				
Part No.	Shank Size	Length	Nose Radius	Series
0303711	1/4"	2"	1/64"	D-4
0303712	5/16"	2-1/4"	1/64"	D-5
0303713	3/8"	2-1/2"	1/64"	D-6
0303714	7/16"	3"	1/32"	D-7
0303715	1/2"	3-1/2"	1/32"	D-8
0303716	5/8"	4"	1/32"	D-10
0303717	3/4"	4-1/2"	1/32"	D-12
0303718	1"	7"	1/32"	D-16

CUTTING TOOLS & METALWORKING

Milling Inserts

Carbide Milling Inserts

High Positive Inserts Available In 5 Different Insert Sizes, Multiple Grades And Geometries To Optimize All Metal Working Applications



- High positive geometry provides low horsepower consumption, wide application range in all materials, long tool life, predictable performance



Part No.	Grade	Corner Radius (in)	Clearance	Hand of Insert
3235360	WXP45	0.0320	15°	Right
3235361	WXP45	0.0320	15°	Right
3235362	WXP45	0.0320	15°	Right
3235363	WXP45	0.0320	15°	Right
3235364	WXP45	0.0160	15°	Right
3235365	WXP45	0.0160	15°	Right
3235366	WKP35	0.0160	15°	Right
3235367	WKP35	0.0320	15°	Right
3235368	WKP35	0.0320	15°	Right
3235369	WAK15	0.0320	15°	Right
3235370	WKP25	0.0320	15°	Right
3235371	WKP35	0.0320	15°	Right
3235372	WAK15	0.0320	15°	Right
3235373	WKP25	0.0320	15°	Right
3235374	WXM35	0.0320	15°	Right
3235375	WKP35	0.0320	15°	Right
3235376	WXM35	0.0320	15°	Right
3235377	WKP35	0.0320	15°	Right
3235378	WKP35	0.0320	15°	Right
3235379	WAK15	0.0160	15°	Right
3235380	WKP25	0.0160	15°	Right
3235381	WKP35	0.0160	15°	Right
3235382	WAK15	0.0160	15°	Right
3235383	WKP25	0.0160	15°	Right
3235384	WXM35	0.0160	15°	Right
3235385	WKP35	0.0160	15°	Right