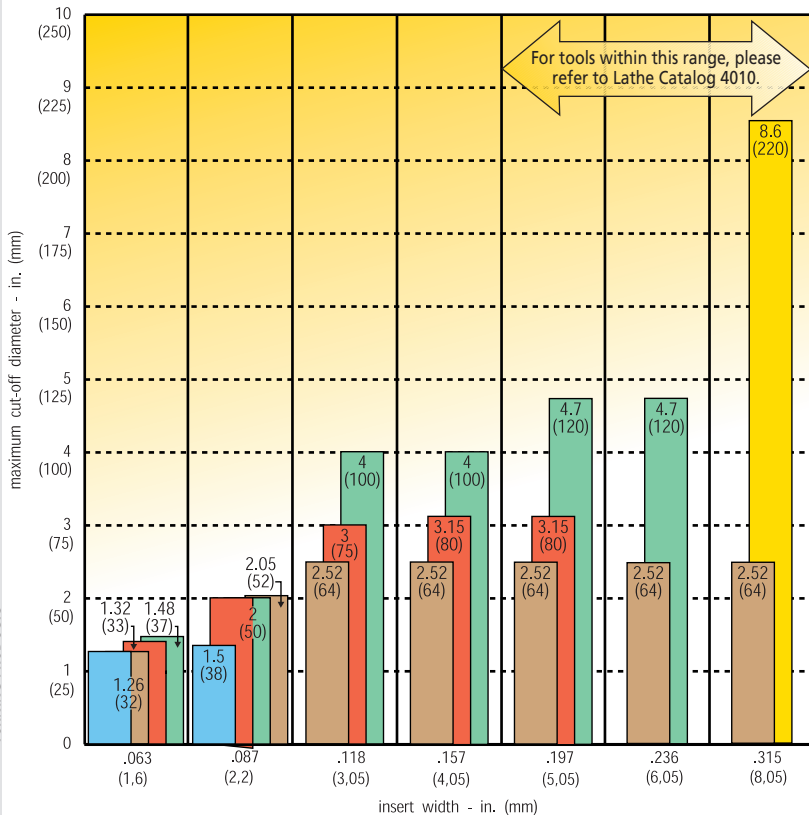


KENNA UNIVERSAL – A2 Cut-Off



5 Easy Steps to Maximize Cut-Off Productivity

1st Step – Select Insert Width and Holder Type



What you need to know:

- cut-off diameter
- part/machine requirements

For required cut-off diameter, select insert width and holder type based on the part and machine requirement:

- To maximize rigidity, select the largest possible blade height or an integral shank toolholder.
- Diameters shown are for cut-off to center. Maximum cut-off depth to a through-hole is one-half of the diameter.
- To determine capability for cut-off to a through-hole on integral shank or reinforced blades, please refer to listing for that tool in this catalog.

blade height	
19 mm	
26 mm	
32 mm	
52 mm	
Integral Shank Toolholders	

Toolholder Type

Blade: (self-clamping)



- frequently used tool
- two insert seats
- deepest depth-of-cut capability

Toolholder: (with clamping screw)



- shank tool with the highest stability
- limited depth of cut
- single insert seat

2nd Step – Select Insert Lead Angle

- part type
- burr and center stub considerations
- Cut-off to center or through-hole

	Neutral (0°)	Right/Left 6° - 10°	Right/Left 15° - 16°
Insert Type			
Recommended Application	<ul style="list-style-type: none"> • for cutting off solid workpieces • center stub will form on cut-off part • eliminates lateral deflection • best for deep cut-off depths 	<ul style="list-style-type: none"> • for cutting off solid workpieces with reduced formation of center stub • for cut-off to a through-hole with reduced burr 	<ul style="list-style-type: none"> • for thin-walled workpieces • for cutting off small diameter workpieces with minimal burr or center stub
Tool Life	best tool life	better tool life	good tool life



3rd Step – Select Chipbreaker Style and Feed Rate

- lead angle or neutral insert
- workpiece material



-CF
Cut-off Fine

- cut-off insert with precision ground cutting edge for low feeds
- curved cutting edge



-CM
Cut-off Medium

- cut-off insert with precision molded cutting edge for medium feeds
- stabilized straight cutting edge



-CR
Cut-off Rough

- cut-off insert with precision molded cutting edge for higher feed rates
- curved cutting edge

Chipbreaker Style and Feed Rates - in/rev (mm/rev)

Insert Type	Steel	Stainless Steel	Cast Iron	Non-Ferrous Metals	High-Temp Alloys
	N-CR .003 – .012 (0,08 – 0,3)	N-CF .002 – .005 (0,05 – 0,12)	N-CM .002 – .008 (0,05 – 0,2)	N-CF .002 – .007 (0,05 – 0,18)	N-CF .002 – .004 (0,04 – 0,10)
	N-CF .002 – .006 (0,05 – 0,15)				
	R/L-CR .002 – .005 (0,05 – 0,12)	R/L-CF .002 – .003 (0,04 – 0,08)	R/L-CM .002 – .005 (0,05 – 0,12)	R/L-CF .002 – .004 (0,04 – 0,10)	R/L-CF .002 – .003 (0,04 – 0,08)
	R/L-CF .002 – .003 (0,04 – 0,08)				

4th Step – Select Grade and Speed

Recommendations for Grade and Speed Selection – sfm (m/min)

	Workpiece Material				
	Steel	Stainless Steel	Cast Iron	Non-Ferrous Metals	High-Temp Alloys
KENNA UNIVERSAL	KU25T 210 - 450 (65 - 135)	KU25T 210 - 400 (65 - 120)	KU25T 180 - 400 (55 - 120)	KU25T 400 - 785 (120 - 240)	KU25T 65 - 200 (20 - 60)

5th Step – Select Insert and Holder from Catalog Page

Example for A2 Cut-off:

material: low carbon steel
 workpiece dia.: 1.02 in. (27 mm)
 depth of cut: .157 in. (4 mm)
 requirements: need to minimize burr on through-hole

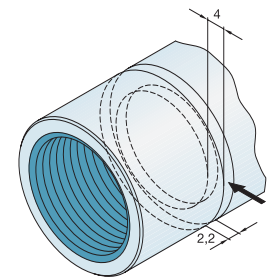
Recommendation:

insert: A2022R06CF02
 grade: KU25T
 cutting width: .087 in. (2,2 mm)
 insert seat size: 2

toolholder: A2BNSN3202
 seat size: 2

speed: 350 sfm (110 m/min)
 feed: .002 ipr (0,05 mm)

Note: The insert seat size must match the seat size of your holder selection.



See page A4 for grade descriptions.

KENLOC INSERTS
SCREW-ON INSERTS
TOOLHOLDERS
BORING BARS
TOP NOTCH GROOVING
TURNING PRODUCTS
TOP NOTCH HOLDERS
A4
A2
LTT THREADING
TOP NOTCH THREADING