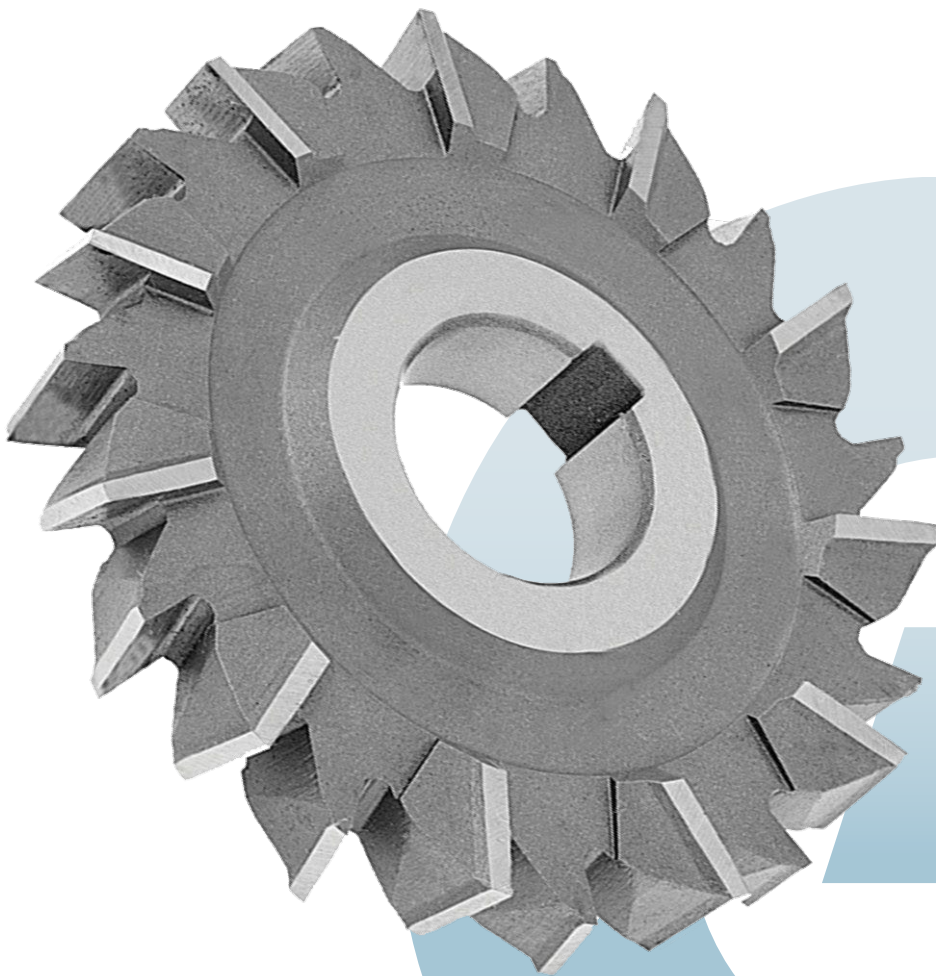




SERRATED BLADE CUTTERS



We are proud to present Goltana UK as one of the pioneers in Metalworking Excellence.

Explore the realm of exceptional metalworking prowess with Goltana UK, which has been a trailblazer in the industry for decades.

As an esteemed manufacturer, specializing in precision machining solutions, Goltana UK presents an extreme array of cutting-edge tools especially designed and built to suit diverse turning, milling, threading, and drilling needs.

Our collaborative approach is unique. We closely work with our clients to embark on a journey of 'co-creation' by fashioning bespoke solutions for addressing the intricate demands of aviation, aerospace, automotive, energy, and general engineering sectors.

In the vanguard of innovation, we're not just engineers; we're digital architects. Our expertise extends to sculpting digital process solutions that redefine efficiency standards.

Embodying a profound commitment, Goltana UK promotes a sustainable and visionary energy landscape. Join us in our mission to illuminate the path towards tomorrow.

SERRATED BLADE HSS SLOT MILLING CUTTERS

No. 600 alternate angle
No. 610 interlocking
No. 620 half side
No. 630 straight blade

Directions for Adjusting Cutter Blades



FINE ADJUSTMENTS FEATURE

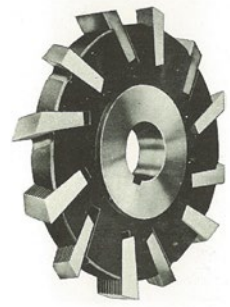
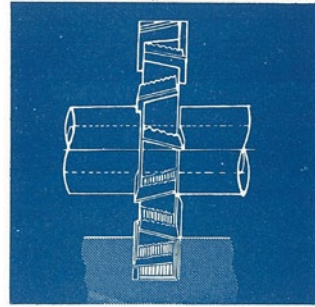
ASSEMBLY OF BLADES

- 1 Place cutter on a lead block (or other soft material).
- 2 Make sure you have the correct series blades as stamped on the cutter body.
- 3 Insert a blade (with a light blow) in each slot making sure the blades are positioned on the serrations so as to allow sufficient overhang from the body for grinding to size.
- 4 Using a copper drift, or copper hammer, drive in the blades first with light and then with heavier blows travelling round the cutter several times to ensure equal pressure throughout the body.
- 5 When driven home the blades should stand about off the bottom of the slot in the case of light and medium duty blades.
- 6 When driving in blades be careful to place drift flush with clearance angle on blades; or when using a copper hammer only, take care not to strike the cutting edge, as this may cause chipping of the blades.
- 7 Fine Adjustment Feature : When the blade slots are numbered, inserting all the blades one slot ahead moves them out a few thousandths of an inch for regrinding to size. This feature is incorporated as standard on Alternate Angle Cutters, Boring Heads, Reamers, Counterbores, Hollow Mills and Carbide tipped cutters generally. See illustrations above.
8. Shimming of blades : When it is required to adjust the blades in line with the serrations, this may be accomplished by inserting suitably shaped pieces of shim steel between the ground front face of the blade and the mating surface of the blade slot. A .005" thick shim gives approximately -.001" of adjustment. Greater adjustment is obtained by proportionately increasing the thickness of shim.

REMOVAL OF BLADES

- 1 Place cutter on a lead block, face downwards.
- 2 For Alternate Angle, Interlocking, Half Side, and Straight Blade Mills we recommend the use of the "Galtona" Blade Drift, consisting of a holder and replaceable bit. The drift is inserted in the space provided at the bottom of the blade slot, and a few sharp blows with a hammer will be sufficient to remove the blades.
- 3 It will be observed that the corner of the blade remote from the cutting edge is rounded and angled off to facilitate extraction. Do not insert the drift at the front of the blade slot, as the sharp corner of the blade will damage the drift, and the blade itself may be chipped.
- 4 When the blade slots run out at the back of the cutter as in Face and End Mills and Boring Heads, insert a suitably shaped instrument with a flattened end into the slot at back of the blade and use a hammer to drive out the blade.
- 5 Keep the blades in their original order to facilitate reassembly. staggered at alternate angles

Serrated Blade Cutters



ALTERNATE ANGLE MILLING CUTTERS

A highly efficient cutter for keyway or slotting operations.

The "Galtona" Serrated Adjustable Cutter Blade is fitted into a forged and heated alloy steel body. The cutter blades are staggered at alternate angles.

Accurate widths are maintained by reinserting each blade one slot ahead. This moves the blade out sideways a few thousandths of an inch or part of a serration, permitting the cutter to be resized with the minimum of grinding.

Note the low replacement cost of a new set of blades. Cutters made to standard dimensions only are listed, fitted with forged selected special High Speed Steel "Galtona" Cutter Blades.

Prices quoted on request for non-listed sizes from 3 1/2 inches diameter up, also when practicable for narrower widths than shown. For Cutters of greater width than specified use "Galtona" Interlocking Cutters described overleaf.

Closer or coarser blade spacing furnished to suit special requirements.

Bore sizes may be varied where practical to suit requirements. Unless otherwise ordered bores called for in inches will have the equivalent British Standard keyway, and bores in metric dimensions will be made to DIN. 138.

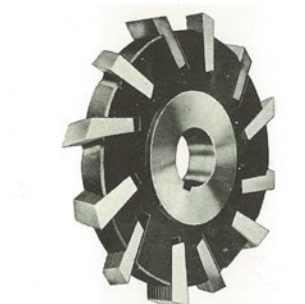
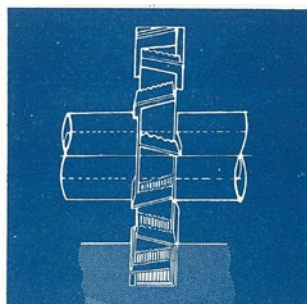
Cutters can also be supplied with blades of T.15 Super H.S.S., Super-Cobalt H.S.S. & "Stellite"

When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

600 SERIES

	diameter	width	bore	code number	blades
1" bore 1/4" x 3/32" keyway	4"	7/16"	1"	6004 x 7/16" x 1"	12 (6 ea. 62-40 & 61 -40)
	4"	1/2"	1"	6004 x 1/2" x 1"	12 (6 ea. 65-1 & 66-1)
	4"	5/8"	1"	6004 x 5/8" x 1"	12 (6 ea. 65-2 & 66-2)
	4"	3/4"	1"	6004 x 3/4" x 1"	12 (6 ea. 65-3 & 66-3)
	4"	7/8"	1"	6004 x 7/8" x 1"	12 (6 ea. 65-4 & 66-4)
	4"	1"	1"	6004 x 1" x 1"	12 (6 ea. 65-5 & 66-5)
	4"	1 1/4"	1"	6004 x 1 1/4" x 1"	12 (63-7)
	5"	7/16"	1"	6005 x 7/16" x 1"	14 (7 ea. 62-40 & 62-40)
	5"	1/2"	1"	6005 x 1/2" x 1"	14 (7 ea. 65-1 & 66-1)
	5"	5/8"	1"	6005 x 5/8" x 1"	14 (7 ea. 65-2 & 66-2)
	5"	3/4"	1"	6005 x 3/4" x 1"	14 (7 ea. 65-3 & 66-3)
	5"	7/8"	1"	6005 x 7/8" x 1"	14 (7 ea. 65-4 & 66-4)
	5"	1"	1"	6005 x 1" x 1"	14 (7 ea. 65-5 & 66-5)
	5"	1 1/4"	1"	6005 x 1 1/4" x 1"	14 (63-7)
	6"	1/2"	1"	6006 x 1/2" x 1"	16 (8 ea. 65-1 & 66-1)
	6"	5/8"	1"	6006 x 5/8" x 1"	16 (8 ea. 65-2 & 66-2)
	6"	3/4"	1"	6006 x 3/4" x 1"	12 (6 ea. 65-11 & 66-11)
	6"	7/8"	1"	6006 x 7/8" x 1"	12 (6 ea. 65-12 & 66-12)
	6"	1"	1"	6006 x 1" x 1"	12 (6 ea. 65-13 & 66-13)
	6"	1 1/4"	1"	6006 x 1 1/4" x 1"	12 (6 ea. 65-14 & 66-14)
	6"	1 1/2"	1"	6006 x 1 1/2" x 1"	12 (6 ea. 65-15 & 66-15)
	6"	2"	1"	6006 x 2" x 1"	12 (6 ea. 65-18 & 66-18)

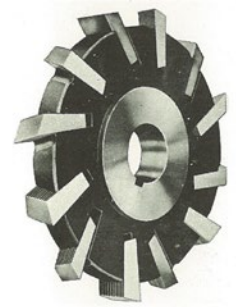
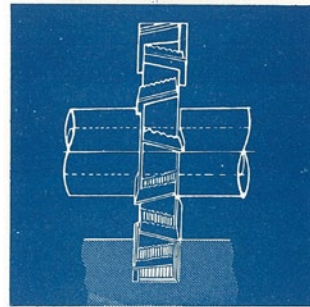


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

600 SERIES

	diameter	width	bore	code number	blades
1 1/4" bore 5/16" X 1/8" Keyway	6"	1/2"	1 1/4"	6006 x 1/2" x 1 1/4"	16 (8 ea. 65-1 & 66-1)
	6"	5/8"	1 1/4"	6006 x 5/8" x 1 1/4"	16 (8 ea. 65-2 & 66-2)
	6"	3/4"	1 1/4"	6006 x 3/4" x 1 1/4"	12 (6 ea. 65-11 & 66-11)
	6"	7/8"	1 1/4"	6006 x 7/8" x 1 1/4"	12 (6 ea. 65-12 & 66-12)
	6"	1"	1 1/4"	6006 x 1" x 1 1/4"	12 (6 ea. 65-13 & 66-13)
	6"	1 1/4"	1 1/4"	6006 x 1 1/4" x 1 1/4"	12 (6 ea. 65-14 & 66-14)
	6"	1 1/2"	1 1/4"	6006 x 1 1/2" x 1 1/4"	12 (6 ea. 65-15 & 66-15)
	6"	2"	1 1/4"	6006 x 2" x 1 1/4"	12 (6 ea. 65-18 & 66-18)
	7"	1/2"	1 1/4"	6007 x 1/2" x 1 1/4"	18 (9 ea. 65-1 & 66-1)
	7"	5/8"	1 1/4"	6007 x 5/8" x 1 1/4"	18 (9 ea. 65-2 & 66-2)
	7"	3/4"	1 1/4"	6007 x 3/4" x 1 1/4"	14 (7 ea. 65-11 & 66-11)
	7"	7/8"	1 1/4"	6007 x 7/8" x 1 1/4"	14 (7 ea. 65-12 & 66-12)
	7"	1"	1 1/4"	6007 x 1" x 1 1/4"	14 (7 ea. 65-13 & 66-13)
	7"	1 1/4"	1 1/4"	6007 x 1 1/4" x 1 1/4"	14 (7 ea. 65-14 & 66-14)
	7"	1 1/2"	1 1/4"	6007 x 1 1/2" x 1 1/4"	14 (7 ea. 65-15 & 66-15)
	7"	2"	1 1/4"	6007 x 2" x 1 1/4"	14 (7 ea. 65-18 & 66-18)
	8"	1/2"	1 1/4"	6008 x 1/2" x 1 1/4"	20 (10 ea. 65-1 & 66-1)
	8"	5/8"	1 1/4"	6008 x 5/8" x 1 1/4"	20 (10 ea. 65-2 & 66-2)
	8"	3/4"	1 1/4"	6008 x 3/4" x 1 1/4"	16 (8 ea. 65-11 & 66-11)
	8"	7/8"	1 1/4"	6008 x 7/8" x 1 1/4"	16 (8 ea. 65-12 & 66-12)
	8"	1"	1 1/4"	6008 x 1" x 1 1/4"	14 (7 ea. 65-13 & 66-13)
	8"	1 1/4"	1 1/4"	6008 x 1 1/4" x 1 1/4"	14 (7 ea. 65-14 & 66-14)
	8"	1 1/2"	1 1/4"	6008 x 1 1/2" x 1 1/4"	14 (7 ea. 65-15 & 66-15)
	8"	2"	1 1/4"	6008 x 2" x 1 1/4"	14 (7 ea. 65-18 & 66-18)
1 1/2" bore 3/8" X 5/32" Keyway	8"	1/2"	1 1/2"	6008 x 1/2" x 1 1/2"	20 (10 ea. 65-1 & 66-1)
	8"	5/8"	1 1/2"	6008 x 5/8" x 1 1/2"	20 (10 ea. 65-2 & 66-2)
	8"	3/4"	1 1/2"	6008 x 3/4" x 1 1/2"	16 (8 ea. 65-11 & 66-11)
	8"	7/8"	1 1/2"	6008 x 7/8" x 1 1/2"	16 (8 ea. 65-12 & 66-12)
	8"	1"	1 1/2"	6008 x 1" x 1 1/2"	14 (7 ea. 65-13 & 66-13)
	8"	1 1/4"	1 1/2"	6008 x 1 1/4" x 1 1/2"	14 (7 ea. 65-14 & 66-14)
	8"	1 1/2"	1 1/2"	6008 x 1 1/2" x 1 1/2"	14 (7 ea. 65-15 & 66-15)
	8"	2"	1 1/2"	6008 x 2" x 1 1/2"	14 (7 ea. 65-18 & 66-18)

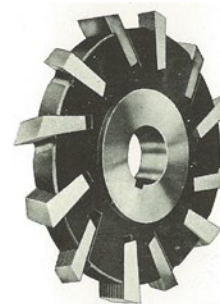
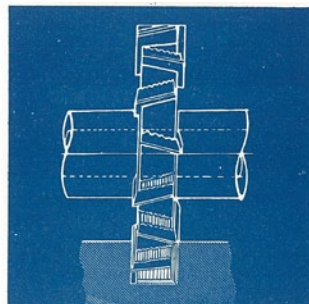


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

600 SERIES

	diameter	width	bore	code number	blades
1 1/2" bore 3/8" X 5/32" Keyway	9"	1/2"	1 1/2"	6009 x 1/2" x 1 1/2"	22 (11 ea. 65-1 & 66-1)
	9"	5/8"	1 1/2"	6009 x 5/8" x 1 1/2"	22 (11 ea. 65-2 & 66-2)
	9"	3/4"	1 1/2"	6009 x 3/4" x 1 1/2"	18 (9 ea. 65-11 & 66-11)
	9"	7/8"	1 1/2"	6009 x 7/8" x 1 1/2"	18 (9 ea. 65-12 & 66-12)
	9"	1"	1 1/2"	6009 x 1" x 1 1/2"	16 (8 ea. 65-21 & 66-21)
	9"	1 1/4"	1 1/2"	6009 x 1 1/4" x 1 1/2"	16 (8 ea. 65-22 & 66-22)
	9"	1 1/2"	1 1/2"	6009 x 1 1/2" x 1 1/2"	16 (8 ea. 65-23 & 66-23)
	9"	2"	1 1/2"	6009 x 2" x 1 1/2"	16 (8 ea. 65-25 & 66-25)
	10"	1/2"	1 1/2"	6010 x 1/2" x 1 1/2"	24 (12 ea. 65-1 & 66-1)
	10"	5/8"	1 1/2"	6010 x 5/8" x 1 1/2"	24 (12 ea. 65-2 & 66-2)
	10"	3/4"	1 1/2"	6010 x 3/4" x 1 1/2"	20 (10 ea. 65-11 & 66-11)
	10"	7/8"	1 1/2"	6010 x 7/8" x 1 1/2"	20 (10 ea. 65-12 & 66-12)
	10"	1"	1 1/2"	6010 x 1" x 1 1/2"	18 (9 ea. 65-21 & 66-21)
	10"	1 1/4"	1 1/2"	6010 x 1 1/4" x 1 1/2"	18 (9 ea. 65-22 & 66-22)
	10"	1 1/2"	1 1/2"	6010 x 1 1/2" x 1 1/2"	18 (9 ea. 65-23 & 66-23)
	10"	2"	1 1/2"	6010 x 2" x 1 1/2"	18 (9 ea. 65-25 & 66-25)
	11"	1/2"	1 1/2"	6011 x 1/2" x 1 1/2"	26 (13 ea. 65-1 & 66-1)
	11"	5/8"	1 1/2"	6011 x 5/8" x 1 1/2"	26 (13 ea. 65-2 & 66-2)
	11"	3/4"	1 1/2"	6011 x 3/4" x 1 1/2"	22 (11 ea. 65-11 & 66-11)
	11"	7/8"	1 1/2"	6011 x 7/8" x 1 1/2"	22 (11 ea. 65-12 & 66-12)
	11"	1"	1 1/2"	6011 x 1" x 1 1/2"	20 (10 ea. 65-21 & 66-21)
	11"	1 1/4"	1 1/2"	6011 x 1 1/4" x 1 1/2"	20 (10 ea. 65-22 & 66-22)
	11"	1 1/2"	1 1/2"	6011 x 1 1/2" x 1 1/2"	20 (10 ea. 65-23 & 66-23)
	11"	2"	1 1/2"	6011 x 2" x 1 1/2"	20 (10 ea. 65-25 & 66-25)
	12"	1/2"	1 1/2"	6012 x 1/2" x 1 1/2"	28 (13 ea. 65-1 & 66-1)
	12"	5/8"	1 1/2"	6012 x 5/8" x 1 1/2"	28 (13 ea. 65-2 & 66-2)
	12"	3/4"	1 1/2"	6012 x 3/4" x 1 1/2"	24 (11 ea. 65-11 & 66-11)
	12"	7/8"	1 1/2"	6012 x 7/8" x 1 1/2"	24 (11 ea. 65-12 & 66-12)
	12"	1"	1 1/2"	6012 x 1" x 1 1/2"	22 (10 ea. 65-21 & 66-21)
	12"	1 1/4"	1 1/2"	6012 x 1 1/4" x 1 1/2"	22 (10 ea. 65-22 & 66-22)
	12"	1 1/2"	1 1/2"	6012 x 1 1/2" x 1 1/2"	22 (10 ea. 65-23 & 66-23)
	12"	2"	1 1/2"	6012 x 2" x 1 1/2"	22 (10 ea. 65-25 & 66-25)

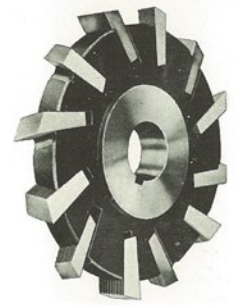
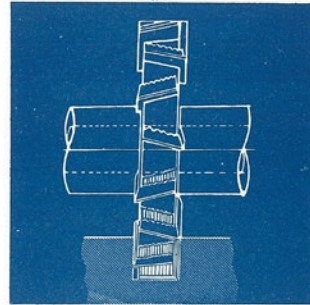


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

600 SERIES

	diameter	width	bore	code number	blades
2" bore 1/2" X 3/16" Keyway	10"	5/8"	2"	6010 x 5/8" x 2"	24 (12 ea. 65-2 & 66-2)
	10"	3/4"	2"	6010 x 3/4" x 2"	20 (10 ea. 65-11 & 66-11)
	10"	7/8"	2"	6010 x 7/8" x 2"	20 (10 ea. 65-12 & 66-12)
	10"	1"	2"	6010 x 1" x 2"	18 (9 ea. 65-21 & 66-21)
	10"	1 1/4"	2"	6010 x 1 1/4" x 2"	18 (9 ea. 65-22 & 66-22)
	10"	1 1/2"	2"	6010 x 1 1/2" x 2"	18 (9 ea. 65-23 & 66-23)
	10"	2"	2"	6010 x 2" x 2"	18 (9 ea. 65-25 & 66-25)
	11"	5/8"	2"	6011 x 5/8" x 2"	26 (13 ea. 65-2 & 66-2)
	11"	3/4"	2"	6011 x 3/4" x 2"	22 (11 ea. 65-11 & 66-11)
	11"	7/8"	2"	6011 x 7/8" x 2"	22 (11 ea. 65-12 & 66-12)
	11"	1"	2"	6011 x 1" x 2"	20 (10 ea. 65-21 & 66-21)
	11"	1 1/4"	2"	6011 x 1 1/4" x 2"	20 (10 ea. 65-22 & 66-22)
	11"	1 1/2"	2"	6011 x 1 1/2" x 2"	20 (10 ea. 65-23 & 66-23)
	11"	2"	2"	6011 x 2" x 2"	20 (10 ea. 65-25 & 66-25)
	12"	5/8"	2"	6012 x 5/8" x 2"	28 (14 ea. 65-2 & 66-2)
	12"	3/4"	2"	6012 x 3/4" x 2"	24 (12 ea. 65-11 & 66-11)
	12"	7/8"	2"	6012 x 7/8" x 2"	24 (12 ea. 65-12 & 66-12)
	12"	1"	2"	6012 x 1" x 2"	22 (11 ea. 65-21 & 66-21)
	12"	1 1/4"	2"	6012 x 1 1/4" x 2"	22 (11 ea. 65-22 & 66-22)
	12"	1 1/2"	2"	6012 x 1 1/2" x 2"	22 (11 ea. 65-23 & 66-23)
	12"	2"	2"	6012 x 2" x 2"	22 (11 ea. 65-25 & 66-25)
	13"	3/4"	2"	6013 x 3/4" x 2"	26 (13 ea. 65-11 & 66-11)
	13"	7/8"	2"	6013 x 7/8" x 2"	26 (13 ea. 65-12 & 66-12)
	13"	1"	2"	6013 x 1" x 2"	22 (11 ea. 65-21 & 66-21)
	13"	1 1/4"	2"	6013 x 1 1/4" x 2"	22 (11 ea. 65-22 & 66-22)
	13"	1 1/2"	2"	6013 x 1 1/2" x 2"	22 (11 ea. 65-23 & 66-23)
	13"	2"	2"	6013 x 2" x 2"	22 (11 ea. 65-25 & 66-25)
	14"	3/4"	2"	6014 x 3/4" x 2"	28 (14 ea. 65-11 & 66-11)
	14"	7/8"	2"	6014 x 7/8" x 2"	28 (14 ea. 65-12 & 66-12)
	14"	1"	2"	6014 x 1" x 2"	24 (12 ea. 65-21 & 66-21)
	14"	1 1/4"	2"	6014 x 1 1/4" x 2"	24 (12 ea. 65-22 & 66-22)
	14"	1 1/2"	2"	6014 x 1 1/2" x 2"	24 (12 ea. 65-23 & 66-23)
	14"	2"	2"	6014 x 2" x 2"	24 (12 ea. 65-25 & 66-25)



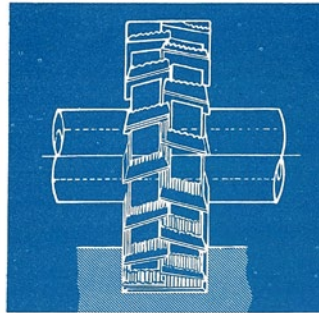
When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

600 SERIES

	diameter	width	bore	code number	blades
2" bore 1/2" X 3/16" Keyway	15"	3/4"	2"	6015 x 3/4" x 2"	30 (15 ea. 65-11 & 66-11)
	15"	7/8"	2"	6015 x 7/8" x 2"	30 (15 ea. 65-12 & 66-12)
	15"	1"	2"	6015 x 1" x 2"	24 (12 ea. 65-21 & 66-21)
	15"	1 1/4"	2"	6015 x 1 1/4" x 2"	24 (12 ea. 65-22 & 66-22)
	15"	1 1/2"	2"	6015 x 1 1/2" x 2"	24 (12 ea. 65-23 & 66-23)
	15"	2"	2"	6015 x 2" x 2"	24 (12 ea. 65-25 & 66-25)
	16"	3/4"	2"	6016 x 3/4" x 2"	32 (16 ea. 65-11 & 66-11)
	16"	7/8"	2"	6016 x 7/8" x 2"	32 (16 ea. 65-12 & 66-12)
	16"	1"	2"	6016 x 1" x 2"	26 (13 ea. 65-21 & 66-21)
	16"	1 1/4"	2"	6016 x 1 1/4" x 2"	26 (13 ea. 65-22 & 66-22)
	16"	1 1/2"	2"	6016 x 1 1/2" x 2"	26 (13 ea. 65-23 & 66-23)
	16"	2"	2"	6016 x 2" x 2"	26 (13 ea. 65-25 & 66-25)
3" bore 3/4" X 1/4" Keyway	14"	3/4"	3"	6014 x 3/4" x 3"	28 (14 ea. 65-11 & 66-11)
	14"	7/8"	3"	6014 x 7/8" x 3"	28 (14 ea. 65-12 & 66-12)
	14"	1"	3"	6014 x 1" x 3"	24 (12 ea. 65-21 & 66-21)
	14"	1 1/4"	3"	6014 x 1 1/4" x 3"	24 (12 ea. 65-22 & 66-22)
	14"	1 1/2"	3"	6014 x 1 1/2" x 3"	24 (12 ea. 65-23 & 66-23)
	14"	2"	3"	6014 x 2" x 3"	24 (12 ea. 65-25 & 66-25)
	15"	3/4"	3"	6015 x 3/4" x 3"	30 (15 ea. 65-11 & 66-11)
	15"	7/8"	3"	6015 x 7/8" x 3"	30 (15 ea. 65-12 & 66-12)
	15"	1"	3"	6015 x 1" x 3"	24 (12 ea. 65-21 & 66-21)
	15"	1 1/4"	3"	6015 x 1 1/4" x 3"	24 (12 ea. 65-22 & 66-22)
	15"	1 1/2"	3"	6015 x 1 1/2" x 3"	24 (12 ea. 65-23 & 66-23)
	15"	2"	3"	6015 x 2" x 3"	24 (12 ea. 65-25 & 66-25)
	16"	3/4"	3"	6016 x 3/4" x 3"	32 (16 ea. 65-11 & 66-11)
	16"	7/8"	3"	6016 x 7/8" x 3"	32 (16 ea. 65-12 & 66-12)
	16"	1"	3"	6016 x 1" x 3"	26 (13 ea. 65-21 & 66-21)
	16"	1 1/4"	3"	6016 x 1 1/4" x 3"	26 (13 ea. 65-22 & 66-22)
	16"	1 1/2"	3"	6016 x 1 1/2" x 3"	26 (13 ea. 65-23 & 66-23)
	16"	2"	3"	6016 x 2" x 3"	26 (13 ea. 65-25 & 66-25)

Serrated Blade Cutters



INTERLOCKING MILLING CUTTERS

For wide slotting or channeling operations, two "Galtona"

Half Side Milling Cutters are interlocked together. Width is maintained by shimming between cutters or adjusting serrations of the "Galtona" Serrated Cutter Blade. The assembled cutter gives the maximum of cutting edges for milling a wide deep slot: about inch spread is allowed for adjustment.

Note the low replacement cost of a new set of blades. Cutters made to standard dimensions only are listed with forged selected special High Speed Steel "Galtona" Cutter Blades fitted into a forged and heat treated alloy steel body. Prices quoted on request for non-listed sizes from 3 inches diameter up.

For cutters of lesser widths than shown use "Galtona" Alternate Angle Cutters described on previous pages.

Closer or coarser blade spacing furnished to suit special requirements.

Bore sizes may be varied where practical to suit requirements. Unless otherwise ordered bores called for in inches will have the equivalent British Standard keyway, and bores in metric dimensions will be made to DIN. 138.

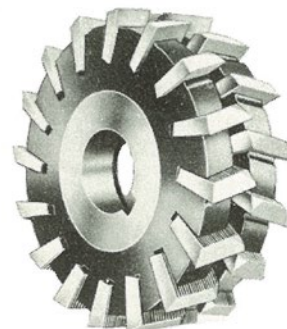
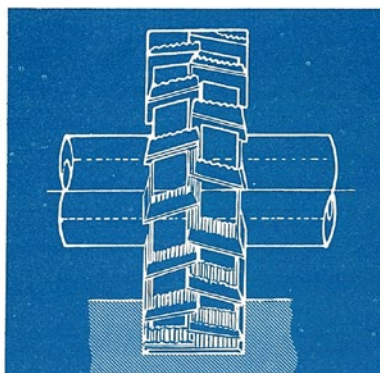
Cutters can also be supplied with blades of T.15 Super H.S.S., Super-Cobalt H.S.S. & "Stellite".

When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

610 SERIES

	diameter	width	bore	code number	blades
1" bore 1/4" x 3/32" Keyway	4"	1 1/4"	1"	6104 x 1 1/4" x 1"	24 (12 ea. 65-4 & 66-4)
	4"	1 1/2"	1"	6104 x 1 1/2" x 1"	24 (12 ea. 65-5 & 66-5)
	4"	1 3/4"	1"	6104 x 1 3/4" x 1"	24 (63-7)
	4"	2"	1"	6104 x 2" x 1"	24 (63-8)
	5"	1 1/4"	1"	6104 x 1 1/4" x 1"	28 (14 ea. 65-4 & 66-4)
	5"	1 1/2"	1"	6104 x 1 1/2" x 1"	28 (14 ea. 65-5 & 66-5)
	5"	1 3/4"	1"	6104 x 1 3/4" x 1"	28 (63-7)
	5"	2"	1"	6104 x 2" x 1"	28 (63-8)
	5"	1 1/4"	1 1/4"	6105 x 1 1/4" x 1 1/4"	28 (14 ea. 65-4 & 66-4)
	5"	1 1/2"	1 1/4"	6105 x 1 1/2" x 1 1/4"	28 (14 ea. 65-5 & 66-5)
	5"	1 3/4"	1 1/4"	6105 x 1 3/4" x 1 1/4"	28 (63-7)
	5"	2"	1 1/4"	6105 x 2" x 1 1/4"	28 (63-8)
	5"	2 1/4"	1 1/4"	6105 x 2 1/4" x 1 1/4"	28 (63-10)
	5"	2 1/2"	1 1/4"	6105 x 2 1/2" x 1 1/4"	24 (12 ea. 61 -49 & 62-49)
	6"	1 1/4"	1 1/4"	6106 x 1 1/4" x 1 1/4"	24 (12 ea. 65-12 & 66-12)
	6"	1 1/2"	1 1/4"	6106 x 1 1/2" x 1 1/4"	24 (12 ea. 65-13 & 66-13)
1 1/4" bore 5/16" x 1/8" Keyway	6"	1 3/4"	1 1/4"	6106 x 1 3/4" x 1 1/4"	24 (12 ea. 65-14 & 66-14)
	6"	2"	1 1/4"	6106 x 2" x 1 1/4"	24 (12 ea. 65-15 & 66-15)
	6"	2 1/4"	1 1/4"	6106 x 2 1/4" x 1 1/4"	24 (12 ea. 65-15 & 66-15)
	6"	2 1/2"	1 1/4"	6106 x 2 1/2" x 1 1/4"	24 (12 ea. 65-18 & 66-18)
	6"	2 3/4"	1 1/4"	6106 x 2 3/4" x 1 1/4"	24 (12 ea. 65-19 & 66-19)
	6"	3"	1 1/4"	6106 x 3" x 1 1/4"	24 (63-19)

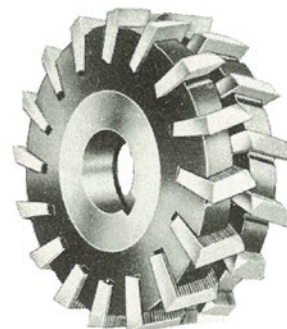
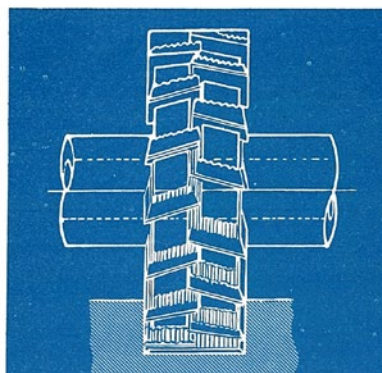


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

610 SERIES

	diameter	width	bore	code number	blades
1 1/4" bore 5/16" x 1/8" Keyway	7"	1 1/4"	1 1/4"	6107 x 1 1/4" x 1 1/4"	28 (14 ea. 65-12 & 66-12)
	7"	1 1/2"	1 1/4"	6107 x 1 1/2" x 1 1/4"	28 (14 ea. 65-13 & 66-13)
	7"	1 3/4"	1 1/4"	6107 x 1 3/4" x 1 1/4"	28 (14 ea. 65-14 & 66-14)
	7"	2"	1 1/4"	6107 x 2" x 1 1/4"	28 (14 ea. 65-15 & 66-15)
	7"	2 1/4"	1 1/4"	6107 x 2 1/4" x 1 1/4"	28 (14 ea. 65-15 & 66-15)
	7"	2 1/2"	1 1/4"	6107 x 2 1/2" x 1 1/4"	28 (14 ea. 65-18 & 66-18)
	7"	2 3/4"	1 1/4"	6107 x 2 3/4" x 1 1/4"	28 (14 ea. 65-19 & 66-19)
	7"	3"	1 1/4"	6107 x 3" x 1 1/4"	28 (63-19)
1 1/2" bore 3/8" x 5/32" Keyway	6"	1 1/4"	1 1/2"	6106 x 1 1/4" x 1 1/2"	24 (12 ea. 65-12 & 66-12)
	6"	1 1/2"	1 1/2"	6106 x 1 1/2" x 1 1/2"	24 (12 ea. 65-13 & 66-13)
	6"	1 3/4"	1 1/2"	6106 x 1 3/4" x 1 1/2"	24 (12 ea. 65-14 & 66-14)
	6"	2"	1 1/2"	6106 x 2" x 1 1/2"	24 (12 ea. 65-15 & 66-15)
	6"	2 1/4"	1 1/2"	6106 x 2 1/4" x 1 1/2"	24 (12 ea. 65-15 & 66-15)
	6"	2 1/2"	1 1/2"	6106 x 2 1/2" x 1 1/2"	24 (12 ea. 65-18 & 66-18)
	6"	2 3/4"	1 1/2"	6106 x 2 3/4" x 1 1/2"	24 (12 ea. 65-19 & 66-19)
	6"	3"	1 1/2"	6106 x 3" x 1 1/2"	24 (63-19)
	7"	1 1/4"	1 1/2"	6107 x 1 1/4" x 1 1/2"	28 (14 ea. 65-12 & 66-12)
	7"	1 1/2"	1 1/2"	6107 x 1 1/2" x 1 1/2"	28 (14 ea. 65-13 & 66-13)
	7"	1 3/4"	1 1/2"	6107 x 1 3/4" x 1 1/2"	28 (14 ea. 65-14 & 66-14)
	7"	2"	1 1/2"	6107 x 2" x 1 1/2"	28 (14 ea. 65-15 & 66-15)
	7"	2 1/4"	1 1/2"	6107 x 2 1/4" x 1 1/2"	28 (14 ea. 65-15 & 66-15)
	7"	2 1/2"	1 1/2"	6107 x 2 1/2" x 1 1/2"	28 (14 ea. 65-18 & 66-18)
	7"	2 3/4"	1 1/2"	6107 x 2 3/4" x 1 1/2"	28 (14 ea. 66-19 & 66-19)
	7"	3"	1 1/2"	6107 x 3" x 1 1/2"	28 (63-19)
	8"	1 1/4"	1 1/2"	6108 x 1 1/4" x 1 1/2"	32 (16 ea. 65-13 & 66-13)
	8"	1 1/2"	1 1/2"	6108 x 1 1/2" x 1 1/2"	28 (14 ea. 65-21 & 66-21)
	8"	1 3/4"	1 1/2"	6108 x 1 3/4" x 1 1/2"	28 (14 ea. 65-22 & 66-22)
	8"	2"	1 1/2"	6108 x 2" x 1 1/2"	28 (14 ea. 65-22 & 66-22)
	8"	2 1/4"	1 1/2"	6108 x 2 1/4" x 1 1/2"	28 (14 ea. 65-23 & 66-23)
	8"	2 1/2"	1 1/2"	6108 x 2 1/2" x 1 1/2"	28 (14 ea. 65-26 & 66-26)
	8"	2 3/4"	1 1/2"	6108 x 2 3/4" x 1 1/2"	28 (14 ea. 65-26 & 66-26)
	8"	3"	1 1/2"	6108 x 3" x 1 1/2"	28 (14 ea. 66-25 & 66-25)
	8"	3 1/2"	1 1/2"	6108 x 3 1/2" x 1 1/2"	28 (63-20)

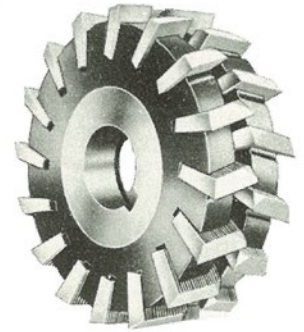
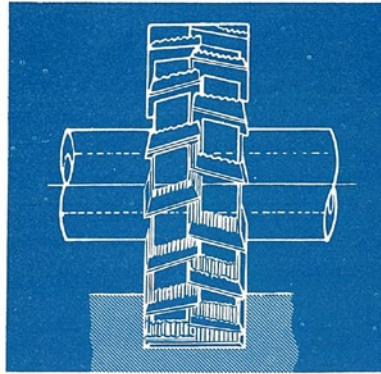


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

610 SERIES

	diameter	width	bore	code number	blades
1 1/2" bore 3/8" x 5/32"	9"	1 1/2"	1 1/2"	6109 x 1 1/2" x 1 1/2"	36 (18 ea. 65-13 & 66-13)
	9"	1 3/4"	1 1/2"	6109 x 1 3/4" x 1 1/2"	32 (16 ea. 65-21 & 66-21)
	9"	2"	1 1/2"	6109 x 2" x 1 1/2"	32 (16 ea. 65-22 & 66-22)
	9"	2 1/4"	1 1/2"	6109 x 2 1/4" x 1 1/2"	32 (16 ea. 65-22 & 66-22)
	9"	2 1/2"	1 1/2"	6109 x 2 1/2" x 1 1/2"	32 (16 ea. 65-23 & 66-23)
	9"	2 3/4"	1 1/2"	6109 x 2 3/4" x 1 1/2"	32 (16 ea. 65-26 & 66-26)
	9"	3"	1 1/2"	6109 x 3" x 1 1/2"	32 (16 ea. 66-25 & 66-25)
	9"	3 1/2"	1 1/2"	6109 x 3 1/2" x 1 1/2"	32 (63-20)
	10"	1 1/2"	1 1/2"	6110 x 1 1/2" x 1 1/2"	40 (20 ea. 65-13 & 66-13)
	10"	1 3/4"	1 1/2"	6110 x 1 3/4" x 1 1/2"	36 (18 ea. 65-21 & 66-21)
	10"	2"	1 1/2"	6110 x 2" x 1 1/2"	36 (18 ea. 65-22 & 66-22)
	10"	2 1/4"	1 1/2"	6110 x 2 1/4" x 1 1/2"	36 (18 ea. 65-22 & 66-22)
	10"	2 1/2"	1 1/2"	6110 x 2 1/2" x 1 1/2"	36 (18 ea. 65-23 & 66-23)
	10"	2 3/4"	1 1/2"	6110 x 2 3/4" x 1 1/2"	36 (18 ea. 65-26 & 66-26)
	10"	3"	1 1/2"	6110 x 3" x 1 1/2"	36 (18 ea. 66-25 & 66-25)
	10"	3 1/2"	1 1/2"	6110 x 3 1/2" x 1 1/2"	36 (63-20)
	9"	1 1/2"	2"	6109 x 1 1/2" x 2"	36 (18 ea. 65-13 & 66-13)
	9"	1 3/4"	2"	6109 x 1 3/4" x 2"	32 (16 ea. 65-21 & 66-21)
	9"	2"	2"	6109 x 2" x 2"	32 (16 ea. 65-22 & 66-22)
	9"	2 1/4"	2"	6109 x 2 1/4" x 2"	32 (16 ea. 65-22 & 66-22)
	9"	2 1/2"	2"	6109 x 2 1/2" x 2"	32 (16 ea. 65-23 & 66-23)
	9"	2 3/4"	2"	6109 x 2 3/4" x 2"	32 (16 ea. 65-26 & 66-26)
	9"	3"	2"	6109 x 3" x 2"	32 (16 ea. 66-25 & 66-25)
	9"	3 1/2"	2"	6109 x 3 1/2" x 2"	32 (63-20)
2" bore 1/2" x 3/16" Keyway	10"	1 1/2"	2"	6110 x 1 1/4" x 2"	40 (20 ea. 65-13 & 66-13)
	10"	1 3/4"	2"	6110 x 1 1/2" x 2"	36 (18 ea. 65-21 & 66-21)
	10"	2"	2"	6110 x 1 3/4" x 2"	36 (18 ea. 65-22 & 66-22)
	10"	2 1/4"	2"	6110 x 2" x 2"	36 (18 ea. 65-22 & 66-22)
	10"	2 1/2"	2"	6110 x 2 1/4" x 2"	36 (18 ea. 65-23 & 66-23)
	10"	2 3/4"	2"	6110 x 2 1/2" x 2"	36 (18 ea. 65-26 & 66-26)
	10"	3"	2"	6110 x 2 3/4" x 2"	36 (18 ea. 66-25 & 66-25)
	10"	3 1/2"	2"	6110 x 3" x 2"	36 (63-20)



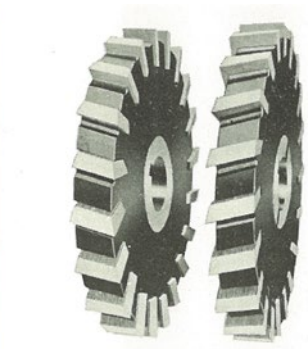
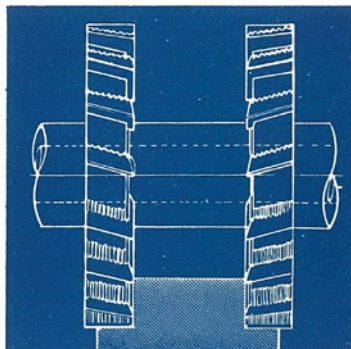
When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled

SPECIFICATIONS

610 SERIES

	diameter	width	bore	code number	blades
2" bore 1/2" x 3/16" Keyway	11"	2"	2"	6111 x 2" x 2"	40 (20 ea. 65-22 & 66-22)
	11"	2 1/4"	2"	6111 x 2 1/4" x 2"	40 (20 ea. 65-22 & 66-22)
	11"	2 1/2"	2"	6111 x 2 1/2" x 2"	40 (20 ea. 65-23 & 66-23)
	11"	2 3/4"	2"	6111 x 2 3/4" x 2"	40 (20 ea. 65-26 & 66-26)
	11"	3"	2"	6111 x 3" x 2"	40 (20 ea. 66-25 & 66-25)
	11"	3 1/2"	2"	6111 x 3 1/2" x 2"	40 (63-20)
	12"	2"	2"	6112 x 2" x 2"	44 (22 ea. 65-22 & 66-22)
	12"	2 1/4"	2"	6112 x 2 1/4" x 2"	44 (22 ea. 65-22 & 66-22)
	12"	2 1/2"	2"	6112 x 2 1/2" x 2"	44 (22 ea. 65-23 & 66-23)
	12"	2 3/4"	2"	6112 x 2 3/4" x 2"	44 (22 ea. 65-26 & 66-26)
	12"	3"	2"	6112 x 3" x 2"	44 (22 ea. 66-25 & 66-25)
	12"	3 1/2"	2"	6112 x 3 1/2" x 2"	44 (63-20)
	14"	2"	2"	6114 x 2" x 2"	48 (24 ea. 65-22 & 66-22)
	14"	2 1/4"	2"	6114 x 2 1/4" x 2"	48 (24 ea. 65-22 & 66-22)
	14"	2 1/2"	2"	6114 x 2 1/2" x 2"	48 (24 ea. 65-23 & 66-23)
	14"	2 3/4"	2"	6114 x 2 3/4" x 2"	48 (24 ea. 65-26 & 66-26)
	14"	3"	2"	6114 x 3" x 2"	48 (24 ea. 66-25 & 66-25)
	14"	3 1/2"	2"	6114 x 3 1/2" x 2"	48 (63-20)
	15"	2"	2"	6115 x 2" x 2"	48 (24 ea. 65-22 & 66-22)
	15"	2 1/4"	2"	6115 x 2 1/4" x 2"	48 (24 ea. 65-22 & 66-22)
	15"	2 1/2"	2"	6115 x 2 1/2" x 2"	48 (24 ea. 65-23 & 66-23)
	15"	2 3/4"	2"	6115 x 2 3/4" x 2"	48 (24 ea. 65-26 & 66-26)
	15"	3"	2"	6115 x 3" x 2"	48 (24 ea. 66-25 & 66-25)
	15"	3 1/2"	2"	6115 x 3 1/2" x 2"	48 (63-20)
	16"	2"	2"	6116 x 2" x 2"	52 (26 ea. 65-22 & 66-22)
	16"	2 1/4"	2"	6116 x 2 1/4" x 2"	52 (26 ea. 65-22 & 66-22)
	16"	2 1/2"	2"	6116 x 2 1/2" x 2"	52 (26 ea. 65-23 & 66-23)
	16"	2 3/4"	2"	6116 x 2 3/4" x 2"	52 (26 ea. 65-26 & 66-26)
	16"	3"	2"	6116 x 3" x 2"	52 (26 ea. 66-25 & 66-25)
	16"	3 1/2"	2"	6116 x 3 1/2" x 2"	52 (63-20)

Serrated Blade Cutters



HALF SIDE MILLING CUTTERS

For step or straddle milling operations.

The "Galtona" Serrated Blade is fitted into a forged and heat treated alloy steel body. Cutter blades are all set at effective cutting angles, right or left hand, for facing or cutting into corners. Cutting angles designed to suit the material being cut.

Note the low replacement cost of a new set of blades. Cutters made to standard dimensions only are listed, with forged selected special High Speed Steel "Galtona" Cutter Blades. Prices quoted on request for non-listed sizes from inches diameter up.

Cutters can be supplied with blades in T.1 5 Super H.S.S., Super-Cobalt H.S.S. & "Stellite".

Bore sizes may be varied where practical to suit requirements. Unless otherwise ordered bores called for in inches will have the equivalent British Standard keyway, and bores in metric dimensions will be made to DIN. 138.

Blade No. 65—used for Right Hand.

Blade No. 66—used for Left Hand.

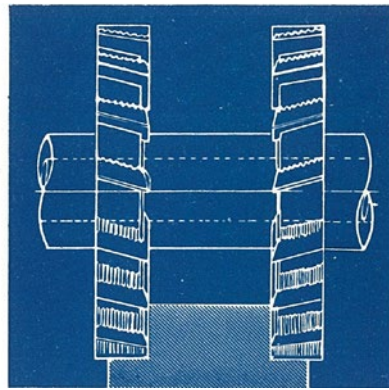
Blade No. 63—used for Right or Left Hand.

When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

620 SERIES

	diameter	width	bore	code number	blades
1" bore 1/4" x 3/32" Keyway	4"	7/16"	1"	6204 x 7/16" x 1"	12 No. 65-1
	4"	1/2"	1"	6204 x 1/2" x 1"	12 No. 65-2
	4"	5/8"	1"	6204 x 5/8" x 1"	12 No. 65-3
	4"	3/4"	1"	6204 x 3/4" x 1"	12 No. 65-4
	4"	7/8"	1"	6204 x 7/8" x 1"	12 No. 65-5
	4"	1"	1"	6204 x 1" x 1"	12 No. 65-7
	4"	1 1/4"	1"	6204 x 1 1/4" x 1"	12 No. 65-10
	5"	7/16"	1"	6205 x 7/16" x 1"	14 No. 65-1
	5"	1/2"	1"	6205 x 1/2" x 1"	14 No. 65-2
	5"	5/8"	1"	6205 x 5/8" x 1"	14 No. 65-3
	5"	3/4"	1"	6205 x 3/4" x 1"	14 No. 65-4
	5"	7/8"	1"	6205 x 7/8" x 1"	14 No. 65-5
	5"	1"	1"	6205 x 1" x 1"	14 No. 65-7
	5"	1 1/4"	1"	6205 x 1 1/4" x 1"	14 No. 65-10
	6"	7/16"	1"	6206 x 7/16" x 1"	16 No. 65-1
	6"	1/2"	1"	6206 x 1/2" x 1"	16 No. 65-2
	6"	5/8"	1"	6206 x 5/8" x 1"	12 No. 65-11
	6"	3/4"	1"	6206 x 3/4" x 1"	12 No. 65-12
	6"	7/8"	1"	6206 x 7/8" x 1"	12 No. 65-13
	6"	1"	1"	6206 x 1" x 1"	12 No. 65-14
	6"	1 1/4"	1"	6206 x 1 1/4" x 1"	12 No. 65-15

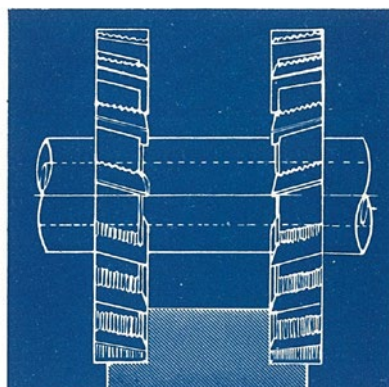


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

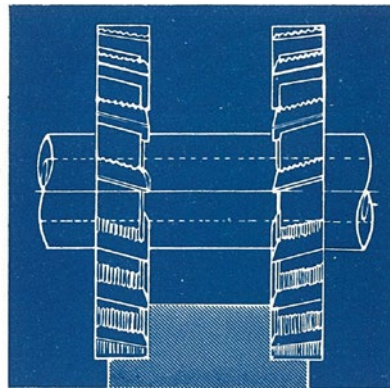
620 SERIES

	diameter	width	bore	code number	blades
1 1/4" bore 5/16" x 1/8" Keyway	5"	7/16"	1 1/4"	6205 x 7/16" x 1 1/4"	14 No. 65-1
	5"	1/2"	1 1/4"	6205 x 1/2" x 1 1/4"	14 No. 65-2
	5"	5/8"	1 1/4"	6205 x 5/8" x 1 1/4"	14 No. 65-3
	5"	3/4"	1 1/4"	6205 x 3/4" x 1 1/4"	14 No. 65-4
	5"	7/8"	1 1/4"	6205 x 7/8" x 1 1/4"	14 No. 65-5
	5"	1"	1 1/4"	6205 x 1" x 1 1/4"	14 No. 65-7
	5"	1 1/4"	1 1/4"	6205 x 1 1/4" x 1 1/4"	14 No. 65-10
	6"	7/16"	1 1/4"	6206 x 7/16" x 1 1/4"	16 No. 65-1
	6"	1/2"	1 1/4"	6206 x 1/2" x 1 1/4"	16 No. 65-2
	6"	5/8"	1 1/4"	6206 x 5/8" x 1 1/4"	12 No. 65-11
	6"	3/4"	1 1/4"	6206 x 3/4" x 1 1/4"	12 No. 65-12
	6"	7/8"	1 1/4"	6206 x 7/8" x 1 1/4"	12 No. 65-13
	6"	1"	1 1/4"	6206 x 1" x 1 1/4"	12 No. 65-14
	6"	1 1/4"	1 1/4"	6206 x 1 1/4" x 1 1/4"	12 No. 65-15
	7"	1/2"	1 1/4"	6207 x 1/2" x 1 1/4"	18 No. 65-2
	7"	5/8"	1 1/4"	6207 x 5/8" x 1 1/4"	14 No. 65-11
	7"	3/4"	1 1/4"	6207 x 3/4" x 1 1/4"	14 No. 65-12
	7"	7/8"	1 1/4"	6207 x 7/8" x 1 1/4"	14 No. 65-13
	7"	1"	1 1/4"	6207 x 1" x 1 1/4"	14 No. 65-14
	7"	1 1/4"	1 1/4"	6207 x 1 1/4" x 1 1/4"	14 No. 65-15
	8"	1/2"	1 1/4"	6208 x 1/2" x 1 1/4"	20 No. 65-2
	8"	5/8"	1 1/4"	6208 x 5/8" x 1 1/4"	16 No. 65-11
	8"	3/4"	1 1/4"	6208 x 3/4" x 1 1/4"	16 No. 65-12
	8"	7/8"	1 1/4"	6208 x 7/8" x 1 1/4"	16 No. 65-13
	8"	1"	1 1/4"	6208 x 1" x 1 1/4"	14 No. 65-21
	8"	1 1/4"	1 1/4"	6208 x 1 1/4" x 1 1/4"	14 No. 65-22
	8"	1 1/2"	1 1/4"	6208 x 1 1/2" x 1 1/4"	14 No. 65-23
	8"	1 3/4"	1 1/4"	6208 x 1 3/4" x 1 1/4"	14 No. 65-25
	8"	2"	1 1/4"	6208 x 2" x 1 1/4"	14 No. 63-20
	9"	3/4"	1 1/4"	6209 x 3/4" x 1 1/4"	18 No. 65-12
	9"	1"	1 1/4"	6209 x 1" x 1 1/4"	16 No. 65-21
	9"	1 1/4"	1 1/4"	6209 x 1 1/4" x 1 1/4"	16 No. 65-22
	9"	1 1/2"	1 1/4"	6209 x 1 1/2" x 1 1/4"	16 No. 65-23
	9"	1 3/4"	1 1/4"	6209 x 1 3/4" x 1 1/4"	16 No. 65-25
	9"	2"	1 1/4"	6209 x 2" x 1 1/4"	16 No. 63-20



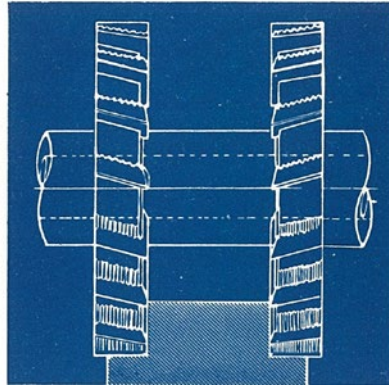
When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS			620 SERIES		
	diameter	width	bore	code number	blades
1 1/4" bore 5/16" x 1/8" Keyway	10"	3/4"	1 1/4"	6210 x 3/4" x 1 1/4"	20 No. 65-12
	10"	1"	1 1/4"	6210 x 1" x 1 1/4"	18 No. 65-21
	10"	1 1/4"	1 1/4"	6210 x 1 1/4" x 1 1/4"	18 No. 65-22
	10"	1 1/2"	1 1/4"	6210 x 1 1/2" x 1 1/4"	18 No. 65-23
	10"	1 3/4"	1 1/4"	6210 x 1 3/4" x 1 1/4"	18 No. 65-25
	10"	2"	1 1/4"	6210 x 2" x 1 1/4"	18 No. 63-20
	6"	1/2"	1 1/2"	6206 x 1/2" x 1"	16 No. 65-2
	6"	5/8"	1 1/2"	6206 x 5/8" x 1"	12 No. 65-11
	6"	3/4"	1 1/2"	6206 x 3/4" x 1"	12 No. 65-12
	6"	1"	1 1/2"	6206 x 1" x 1"	12 No. 65-14
	6"	1 1/4"	1 1/2"	6206 x 1 1/4" x 1"	12 No. 65-15
	6"	1 1/2"	1 1/2"	6206 x 1 1/2" x 1"	12 No. 65-18
	7"	1/2"	1 1/2"	6207 x 1/2" x 1 1/2"	18 No. 65-2
	7"	5/8"	1 1/2"	6207 x 5/8" x 1 1/2"	14 No. 65-11
	7"	3/4"	1 1/2"	6207 x 3/4" x 1 1/2"	14 No. 65-12
	7"	7/8"	1 1/2"	6207 x 7/8" x 1 1/2"	14 No. 65-13
	7"	1"	1 1/2"	6207 x 1" x 1 1/2"	14 No. 65-14
	7"	1 1/4"	1 1/2"	6207 x 1 1/4" x 1 1/2"	14 No. 65-15
	7"	1 1/2"	1 1/2"	6207 x 1 1/2" x 1 1/2"	14 No. 65-18
1 1/2" bore 3/8" x 5/32" Keyway	8"	5/8"	1 1/2"	6208 x 5/8" x 1 1/2"	16 No. 65-11
	8"	3/4"	1 1/2"	6208 x 3/4" x 1 1/2"	16 No. 65-12
	8"	1"	1 1/2"	6208 x 1" x 1 1/2"	14 No. 65-21
	8"	1 1/4"	1 1/2"	6208 x 1 1/4" x 1 1/2"	14 No. 65-22
	8"	1 1/2"	1 1/2"	6208 x 1 1/2" x 1 1/2"	14 No. 65-23
	8"	1 3/4"	1 1/2"	6208 x 1 3/4" x 1 1/2"	14 No. 65-25
	8"	2"	1 1/2"	6208 x 2" x 1 1/2"	14 No. 63-20
	9"	3/4"	1 1/2"	6209 x 3/4" x 1 1/2"	18 No. 65-12
	9"	1"	1 1/2"	6209 x 1" x 1 1/2"	16 No. 65-21
	9"	1 1/4"	1 1/2"	6209 x 1 1/4" x 1 1/2"	16 No. 65-22
	9"	1 1/2"	1 1/2"	6209 x 1 1/2" x 1 1/2"	16 No. 65-23
	9"	1 3/4"	1 1/2"	6209 x 1 3/4" x 1 1/2"	16 No. 65-25
	9"	2"	1 1/2"	6209 x 2" x 1 1/2"	16 No. 63-20



When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

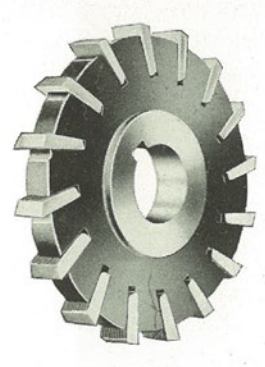
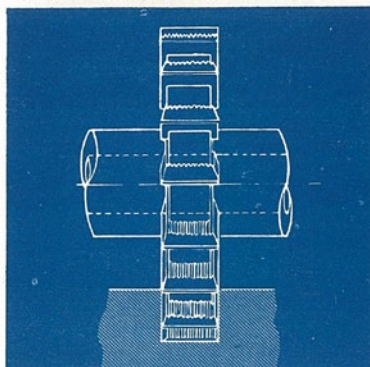
SPECIFICATIONS			620 SERIES		
	diameter	width	bore	code number	blades
1 1/2" bore 3/8" x 5/32" Keyway	10"	3/4"	1 1/2"	6210 x 3/4" x 1 1/2"	20 No. 65-12
	10"	1"	1 1/2"	6210 x 1" x 1 1/2"	18 No. 65-21
	10"	1 1/4"	1 1/2"	6210 x 1 1/4" x 1 1/2"	18 No. 65-22
	10"	1 1/2"	1 1/2"	6210 x 1 1/2" x 1 1/2"	18 No. 65-23
	10"	1 3/4"	1 1/2"	6210 x 1 3/4" x 1 1/2"	18 No. 65-25
	10"	2"	1 1/2"	6210 x 2" x 1 1/2"	18 No. 63-20
	11"	3/4"	1 1/2"	6211 x 3/4" x 1 1/2"	22 No. 65-12
	11"	1"	1 1/2"	6211 x 1" x 1 1/2"	20 No. 65-21
	11"	1 1/4"	1 1/2"	6211 x 1 1/4" x 1 1/2"	20 No. 65-22
	11"	1 1/2"	1 1/2"	6211 x 1 1/2" x 1 1/2"	20 No. 65-23
	11"	1 3/4"	1 1/2"	6211 x 1 3/4" x 1 1/2"	20 No. 65-25
	11"	2"	1 1/2"	6211 x 2" x 1 1/2"	20 No. 63-20
	12"	1"	1 1/2"	6212 x 1" x 1 1/2"	22 No. 65-21
	12"	1 1/4"	1 1/2"	6212 x 1 1/4" x 1 1/2"	22 No. 65-22
	12"	1 1/2"	1 1/2"	6212 x 1 1/2" x 1 1/2"	22 No. 65-23
	12"	1 3/4"	1 1/2"	6212 x 1 3/4" x 1 1/2"	22 No. 65-25
	12"	2"	1 1/2"	6212 x 2" x 1 1/2"	22 No. 63-20
2" bore 1/2" x 3/16" Keyway	9"	3/4"	2"	6209 x 3/4" x 2"	18 No. 65-2
	9"	1"	2"	6209 x 1" x 2"	16 No. 65-11
	9"	1 1/4"	2"	6209 x 1 1/4" x 2"	16 No. 65-12
	9"	1 1/2"	2"	6209 x 1 1/2" x 2"	16 No. 65-14
	9"	1 3/4"	2"	6209 x 1 3/4" x 2"	16 No. 65-15
	9"	2"	2"	6209 x 2" x 2"	16 No. 65-18
	10"	3/4"	2"	6210 x 3/4" x 2"	20 No. 65-2
	10"	1"	2"	6210 x 1" x 2"	18 No. 65-11
	10"	1 1/4"	2"	6210 x 1 1/4" x 2"	18 No. 65-12
	10"	1 1/2"	2"	6210 x 1 1/2" x 2"	18 No. 65-14
	10"	1 3/4"	2"	6210 x 1 3/4" x 2"	18 No. 65-15
	10"	2"	2"	6210 x 2" x 2"	18 No. 65-18



When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS			620 SERIES		
	diameter	width	bore	code number	blades
2" bore 1/2" x 3/16" Keyway	11"	3/4"	2"	6211 x 3/4" x 2"	22 No. 65-12
	11"	1"	2"	6211 x 1" x 2"	20 No. 65-21
	11"	1 1/4"	2"	6211 x 1 1/4" x 2"	20 No. 65-22
	11"	1 1/2"	2"	6211 x 1 1/2" x 2"	20 No. 65-23
	11"	1 3/4"	2"	6211 x 1 3/4" x 2"	20 No. 65-25
	11"	2"	2"	6211 x 2" x 2"	20 No. 63-20
	12"	1"	2"	6212 x 1" x 2"	22 No. 65-21
	12"	1 1/4"	2"	6212 x 1 1/4" x 2"	22 No. 65-22
	12"	1 1/2"	2"	6212 x 1 1/2" x 2"	22 No. 65-23
	12"	1 3/4"	2"	6212 x 1 3/4" x 2"	22 No. 65-25
	12"	2"	2"	6212 x 2" x 2"	22 No. 63-20
	13"	1"	2"	6213 x 1" x 2"	22 No. 65-21
	13"	1 1/4"	2"	6213 x 1 1/4" x 2"	22 No. 65-22
	13"	1 1/2"	2"	6213 x 1 1/2" x 2"	22 No. 65-23
	13"	1 3/4"	2"	6213 x 1 3/4" x 2"	22 No. 65-25
	13"	2"	2"	6213 x 2" x 2"	22 No. 63-20
	14"	1"	2"	6214 x 1" x 2"	24 No. 65-21
	14"	1 1/4"	2"	6214 x 1 1/4" x 2"	24 No. 65-22
	14"	1 1/2"	2"	6214 x 1 1/2" x 2"	24 No. 65-23
	14"	1 3/4"	2"	6214 x 1 3/4" x 2"	24 No. 65-25
	14"	2"	2"	6214 x 2" x 2"	24 No. 63-20
	15"	1"	2"	6215 x 1" x 2"	24 No. 65-21
	15"	1 1/4"	2"	6215 x 1 1/4" x 2"	24 No. 65-22
	15"	1 1/2"	2"	6215 x 1 1/2" x 2"	24 No. 65-23
	15"	1 3/4"	2"	6215 x 1 3/4" x 2"	24 No. 65-25
	15"	2"	2"	6215 x 2" x 2"	24 No. 63-20
2" bore 1/2" x 3/16" Keyway	16"	1"	2"	6216 x 1" x 2"	26 No. 65-21
	16"	1 1/4"	2"	6216 x 1 1/4" x 2"	26 No. 65-22
	16"	1 1/2"	2"	6216 x 1 1/2" x 2"	26 No. 65-23
	16"	1 3/4"	2"	6216 x 1 3/4" x 2"	26 No. 65-25
	16"	2"	2"	6216 x 2" x 2"	26 No. 63-20

Serrated Blade Cutters



STRAIGHT BLADE MILLING CUTTERS

For General purpose use.

Cutter Blades set straight allow both sides of the tooth to come into the work at once, neutralising any side cutting thrusts. We, however, recommend the use of cutters incorporating spiral angle wherever possible.

The "Galtona" Serrated Cutter Blade is fitted into a forged and heat treated alloy steel body.

Cutters made to standard dimensions only are listed, with forged selected special High Speed Steel "Galtona" Cutter Blades. Prices quoted on request for non-listed sizes from 3 1/2 inches diameter up, also

when practicable for narrower widths than shown.

Closer or coarser blade spacing furnished if desired.

Bore sizes may be varied where practical to suit requirements.

Unless otherwise ordered bores called for in inches will have the equivalent British Standard keyway, and bores in metric dimensions will be made to DIN. 138.

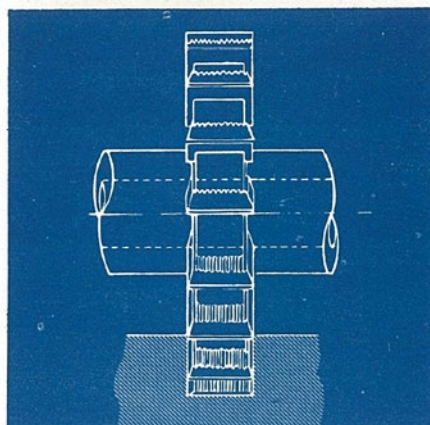
Cutters with blades of T. 15 Super H.S.S., Super-Cobalt H.S.S., or "Stellite" Tipped can also be supplied.

When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled,

SPECIFICATIONS

630 SERIES

	diameter	width	bore	code number	blades
1" bore 1/4" x 3/32" Keyway	4"	1/2"	1"	6304 x 1/2" x 1"	12 No. 63-2
	4"	5/8"	1"	6304 x 5/8" x 1"	12 No. 63-4
	4"	3/4"	1"	6304 x 3/4" x 1"	12 No. 63-4
	4"	7/8"	1"	6304 x 7/8" x 1"	12 No. 63-5
	4"	1"	1"	6304 x 1" x 1"	12 No. 63-7
	4"	1 1/4"	1"	6304 x 1 1/4" x 1"	12 No. 63-10
	5"	1/2"	1"	6305 x 1/2" x 1"	14 No. 63-2
	5"	5/8"	1"	6305 x 5/8" x 1"	14 No. 63-4
	5"	3/4"	1"	6305 x 3/4" x 1"	14 No. 63-5
	5"	7/8"	1"	6305 x 7/8" x 1"	14 No. 63-7
	5"	1"	1"	6305 x 1" x 1"	14 No. 63-7
	5"	1 1/4"	1"	6305 x 1 1/4" x 1"	14 No. 63-10
	6"	1/2"	1"	6306 x 1/2" x 1"	16 No. 63-2
	6"	5/8"	1"	6306 x 5/8" x 1"	16 No. 63-2
	6"	3/4"	1"	6306 x 3/4" x 1"	12 No. 63-11
	6"	7/8"	1"	6306 x 7/8" x 1"	12 No. 63-12
	6"	1"	1"	6306 x 1" x 1"	12 No. 63-13
	6"	1 1/4"	1"	6306 x 1 1/4" x 1"	12 No. 63-15

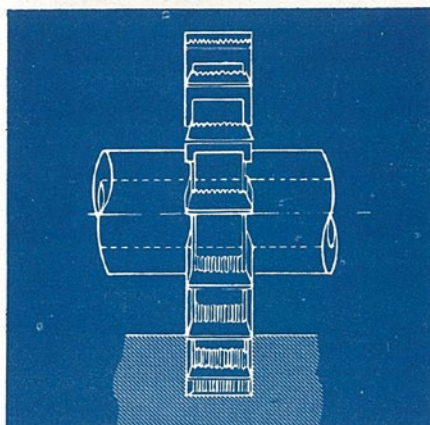


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled,

SPECIFICATIONS

630 SERIES

	diameter	width	bore	code number	blades
1 1/4" bore 5/16" x 1/8" Keyway	5"	1/2"	1 1/4"	6305 x 1/2" x 1 1/4"	14 No. 63-2
	5"	5/8"	1 1/4"	6305 x 5/8" x 1 1/4"	14 No. 63-4
	5"	3/4"	1 1/4"	6305 x 3/4" x 1 1/4"	14 No. 63-5
	5"	7/8"	1 1/4"	6305 x 7/8" x 1 1/4"	14 No. 63-7
	5"	1"	1 1/4"	6305 x 1" x 1 1/4"	14 No. 63-7
	5"	1 1/4"	1 1/4"	6305 x 1 1/4" x 1 1/4"	14 No. 63-10
	6"	1/2"	1 1/4"	6306 x 1/2" x 1 1/4"	16 No. 63-2
	6"	5/8"	1 1/4"	6306 x 5/8" x 1 1/4"	16 No. 63-4
	6"	3/4"	1 1/4"	6306 x 3/4" x 1 1/4"	12 No. 63-11
	6"	7/8"	1 1/4"	6306 x 7/8" x 1 1/4"	12 No. 63-12
	6"	1"	1 1/4"	6306 x 1" x 1 1/4"	12 No. 63-13
	6"	1 1/4"	1 1/4"	6306 x 1 1/4" x 1 1/4"	12 No. 63-15
	7"	1/2"	1 1/4"	6307 x 1/2" x 1 1/4"	18 No. 63-2
	7"	5/8"	1 1/4"	6307 x 5/8" x 1 1/4"	18 No. 63-4
	7"	3/4"	1 1/4"	6307 x 3/4" x 1 1/4"	14 No. 63-11
	7"	7/8"	1 1/4"	6307 x 7/8" x 1 1/4"	14 No. 63-12
	7"	1"	1 1/4"	6307 x 1" x 1 1/4"	14 No. 63-13
	7"	1 1/4"	1 1/4"	6307 x 1 1/4" x 1 1/4"	14 No. 63-15
	8"	1/2"	1 1/4"	6308 x 1/2" x 1 1/4"	20 No. 63-2
	8"	5/8"	1 1/4"	6308 x 5/8" x 1 1/4"	20 No. 63-4
	8"	3/4"	1 1/4"	6308 x 3/4" x 1 1/4"	16 No. 63-11
	8"	7/8"	1 1/4"	6308 x 7/8" x 1 1/4"	16 No. 63-12
	8"	1"	1 1/4"	6308 x 1" x 1 1/4"	16 No. 63-13
	8"	1 1/4"	1 1/4"	6308 x 1 1/4" x 1 1/4"	16 No. 63-15
1 1/2" bore 3/8" x 5/32" Keyway	6"	1/2"	1 1/2"	6306 x 1/2" x 1 1/2"	16 No. 63-2
	6"	3/4"	1 1/2"	6306 x 3/4" x 1 1/2"	12 No. 63-11
	6"	1"	1 1/2"	6306 x 1" x 1 1/2"	12 No. 63-13
	6"	1 1/4"	1 1/2"	6306 x 1 1/4" x 1 1/2"	12 No. 63-15
	6"	1 1/2"	1 1/2"	6306 x 1 1/2" x 1 1/2"	12 No. 63-16
	6"	2"	1 1/2"	6306 x 2" x 1 1/2"	12 No. 63-18



When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled,

SPECIFICATIONS

630 SERIES

	diameter	width	bore	code number	blades
1 1/2" bore 3/8" x 5/32" Keyway	7"	3/4"	1 1/2"	6307 x 3/4" x 1 1/2"	14 No. 63-11
	7"	1"	1 1/2"	6307 x 1" x 1 1/2"	14 No. 63-13
	7"	1 1/4"	1 1/2"	6307 x 1 1/4" x 1 1/2"	14 No. 63-15
	7"	1 1/2"	1 1/2"	6307 x 1 1/2" x 1 1/2"	14 No. 63-16
	7"	2"	1 1/2"	6307 x 2" x 1 1/2"	14 No. 63-18
	8"	3/4"	1 1/2"	6308 x 3/4" x 1 1/2"	16 No. 63-11
	8"	1"	1 1/2"	6308 x 1" x 1 1/2"	16 No. 63-13
	8"	1 1/4"	1 1/2"	6308 x 1 1/4" x 1 1/2"	16 No. 63-15
	8"	1 1/2"	1 1/2"	6308 x 1 1/2" x 1 1/2"	16 No. 63-16
	8"	2"	1 1/2"	6308 x 2" x 1 1/2"	16 No. 63-18
	9"	3/4"	1 1/2"	6309 x 3/4" x 1 1/2"	18 No. 63-11
	9"	1"	1 1/2"	6309 x 1" x 1 1/2"	18 No. 63-13
	9"	1 1/4"	1 1/2"	6309 x 1 1/4" x 1 1/2"	18 No. 63-15
	9"	1 1/2"	1 1/2"	6309 x 1 1/2" x 1 1/2"	18 No. 63-16
	9"	2"	1 1/2"	6309 x 2" x 1 1/2"	18 No. 63-18
2" bore 1/2" x 3/16" Keyway	10"	3/4"	2"	6310 x 3/4" x 2"	20 No. 63-11
	10"	1"	2"	6310 x 1" x 2"	20 No. 63-13
	10"	1 1/4"	2"	6310 x 1 1/4" x 2"	20 No. 63-15
	10"	1 1/2"	2"	6310 x 1 1/2" x 2"	20 No. 63-16
	10"	2"	2"	6310 x 2" x 2"	20 No. 63-18
	11"	3/4"	2"	6311 x 3/4" x 2"	22 No. 63-11
	11"	1"	2"	6311 x 1" x 2"	22 No. 63-13
	11"	1 1/4"	2"	6311 x 1 1/4" x 2"	22 No. 63-15
	11"	1 1/2"	2"	6311 x 1 1/2" x 2"	22 No. 63-16
	11"	2"	2"	6311 x 2" x 2"	22 No. 63-18
	12"	3/4"	2"	6312 x 3/4" x 2"	24 No. 63-11
	12"	1"	2"	6312 x 1" x 2"	24 No. 63-13
	12"	1 1/4"	2"	6312 x 1 1/4" x 2"	24 No. 63-15
	12"	1 1/2"	2"	6312 x 1 1/2" x 2"	24 No. 63-16
	12"	2"	2"	6312 x 2" x 2"	24 No. 63-18

A COMPARISON OF METAL CUTTING MATERIALS

To readily show machinists the operating merits of popular metal cutting materials we have developed a graphical photo-diagram. It portrays the important relative features of each. No particular accuracy is claimed for it as it is impossible to measure definitely the desired characteristics under similar conditions. However, as a comparative figure to impress the user of the dominant features and limitations it will prove useful.

A cutting tool is subject to three physical strains — pressure, abrasion and heat. These may be resisted most effectively by different cutting materials. Pressure is due to the chip bearing down on the top of the tool. Abrasion is the tendency of the chip being cut to cut or abrade the tool surface. Heat is developed by both of these physical actions.

Red hardness is a term signifying the hardness of a tool when operating at high temperature. The ordinary hardness of a cutting material is of no practical use unless its structure is capable of holding that hardness in some degree when in actual operation.

The intense pressure and abrasion on the tool impose shocks on it. To resist these the comparative toughness of the cutting tool material must be considered. Toughness relates to elasticity. It is the opposite of brittleness.

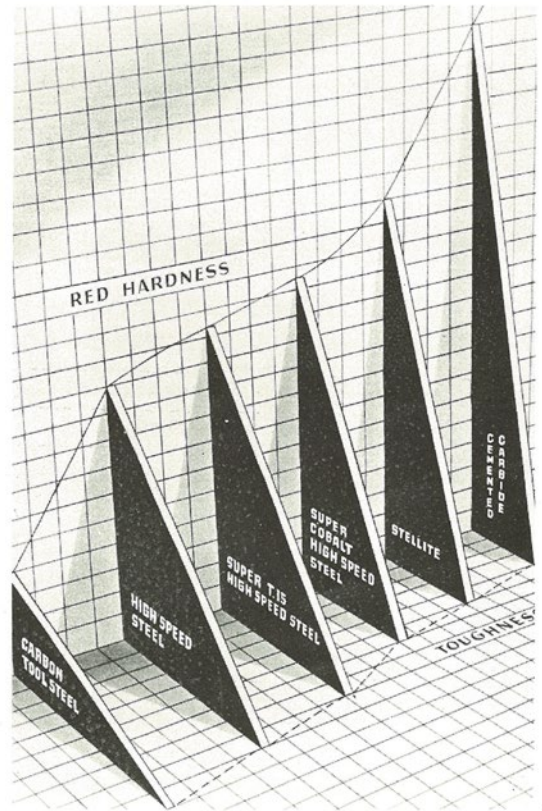
Our chart shows the general comparison with one another of each of the popular metal cutting materials. It will be noted that as one gains the property of red hardness the toughness is sacrificed.

Carbon steel is quite tough but will not stand much heating of the cutting edge. It is useful for finishing or accurate form tools.

High speed steel has been for many years the most popular cutting material. Its most important property is the ability to retain a considerable hardness at elevated temperatures, while maintaining adequate toughness to withstand the shocks normally encountered in operation. It will cut most materials satisfactorily, is relatively easy to regrind, and is unsurpassed for general purpose use.

T.1 5 is a special high Carbon, high Vanadium High Speed Steel, and possesses excellent properties of resistance to abrasion. It has been used in increasing quantities over the last three to four years, particularly where High Tensile steels are to be machined.

Super Cobalt High Speed Steel contains additional cobalt, thereby increasing the red hardness. It is more



expensive, but it finds favour on the machining of some of the more difficult materials. Its latest application is in the machining of "Nimonic", in which field it has so far proved to be one of the most successful cutting materials.

"Stellite" is very suitable for hard chilled iron surfaces and such like. It is more or less brittle.

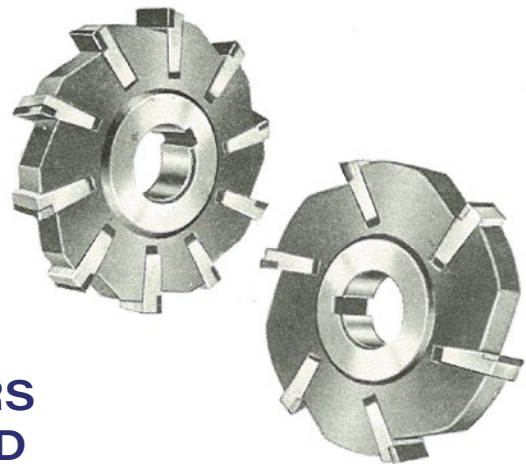
Cemented Carbide is the hardest cutting material known. Its extreme hardness proclaims its brittleness. It is now used extensively on Cast Iron and various non-ferrous materials. It is recommended after a thorough study shows its cost is warranted, that the tool will perform under rigid conditions, and that it can produce at the increased speed. Its application to the milling of steel is still limited.

No one material is a cure-all. None will entirely supplant the other.

**SERRATED BLADE
CEMENTED CARBIDE
TIPPED
SLOT MILLING
CUTTERS**

**No. 900 alternate angle
No. 920 half side**

Serrated Blade Cutters



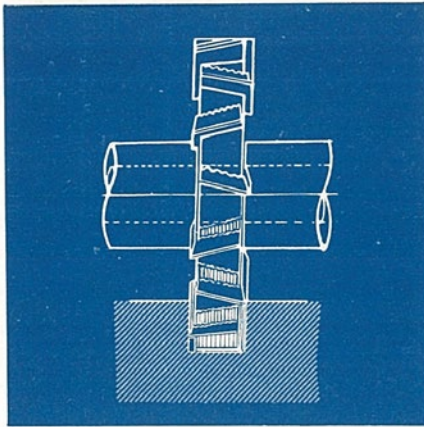
ALTERNATE ANGLE CUTTERS CEMENTED CARBIDE TIPPED

For high production slotting operations these tools are unsurpassed. The "Galtona" Serrated Blades of carbon steel are tipped full width with cemented carbide, and are staggered at alternate angles, providing a smooth cutting action. Accurate widths are maintained by re inserting each blade one slot ahead. This moves the blade out sideways a few thousandths of an inch or part of a serration, permitting the cutter to be re-sized with the minimum of grinding.

Intermediate and larger sizes to order, also tools with coarser or finer blade spacing. Interlocking cutters can C) also be supplied. Tools for cutting steel are not listed, but enquiries will receive every consideration. The 900-G series cutters can be used on various non-ferrous materials such as brass and bronze. 95-series blades are used for both right and left hand cutting.

When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS						900 SERIES	
CUTTERS FOR CAST IRON						CUTTERS FOR LIGHT ALLOY	
	diameter	width	bore	code number	blades	code no	blades
1" bore 1/4" x 3/32" Keyway	4"	1/2"	1"	9004G x 1/2" x 1"	8 No. 95-50N	9004M x 1/2" x 1"	4 No. 95-50N
	4"	5/8"	1"	9004G x 5/8" x 1"	8 No. 95-50N	9004M x 5/8" x 1"	4 No. 95-50N
	4"	3/4"	1"	9004G x 3/4" x 1"	8 No. 95-51N	9004M x 3/4" x 1"	4 No. 95-51N
	4"	7/8"	1"	9004G x 7/8" x 1"	8 No. 95-52N	9004M x 7/8" x 1"	4 No. 95-52N
	4"	1"	1"	9004G x 1" x 1"	8 No. 95-53N	9004M x 1" x 1"	4 No. 95-53N
	4"	1 1/4"	1"	9004G x 1 1/4" x 1"	8 No. 95-54N	9004M x 1 1/4" x 1"	4 No. 95-54N
	5"	1/2"	1 1/4"	9005G x 1/2" x 1 1/4"	10 No. 95-50N	9005M x 1/2" x 1 1/4"	6 No. 95-50N
	5"	5/8"	1 1/4"	9005G x 5/8" x 1 1/4"	10 No. 95-50N	9005M x 5/8" x 1 1/4"	6 No. 95-50N
	5"	3/4"	1 1/4"	9005G x 3/4" x 1 1/4"	10 No. 95-51N	9005M x 3/4" x 1 1/4"	6 No. 95-51N
	5"	7/8"	1 1/4"	9005G x 7/8" x 1 1/4"	10 No. 95-52N	9005M x 7/8" x 1 1/4"	6 No. 95-52N
	5"	1"	1 1/4"	9005G x 1" x 1 1/4"	10 No. 95-53N	9005M x 1" x 1 1/4"	6 No. 95-53N
	5"	1 1/4"	1 1/4"	9005G x 1 1/4" x 1 1/4"	10 No. 95-54N	9005M x 1 1/4" x 1 1/4"	6 No. 95-54N
	6"	1/2"	1 1/4"	9006G x 1/2" x 1 1/4"	10 No. 95-50N	9006M x 1/2" x 1 1/4"	6 No. 95-50N
	6"	5/8"	1 1/4"	9006G x 5/8" x 1 1/4"	10 No. 95-50N	9006M x 5/8" x 1 1/4"	6 No. 95-50N
	6"	3/4"	1 1/4"	9006G x 3/4" x 1 1/4"	10 No. 95-11N	9006M x 3/4" x 1 1/4"	6 No. 95-11N
	6"	7/8"	1 1/4"	9006G x 7/8" x 1 1/4"	10 No. 95-12N	9006M x 7/8" x 1 1/4"	6 No. 95-12N
	6"	1"	1 1/4"	9006G x 1" x 1 1/4"	10 No. 95-13N	9006M x 1" x 1 1/4"	6 No. 95-13N
	6"	1 1/4"	1 1/4"	9006G x 1 1/4" x 1 1/4"	10 No. 95-14N	9006M x 1 1/4" x 1 1/4"	6 No. 95-14N
1 1/4" bore 5/16" x 1/8" keyway	7"	3/4"	1 1/4"	9007G x 3/4" x 1 1/4"	12 No. 95-11N	9007M x 3/4" x 1 1/4"	8 No. 95-11N
	7"	1"	1 1/4"	9007G x 1" x 1 1/4"	12 No. 95-13N	9007M x 1" x 1 1/4"	8 No. 95-13N
	7"	1 1/4"	1 1/4"	9007G x 1 1/4" x 1 1/4"	12x` No. 95-14N	9007M x 1 1/4" x 1 1/4"	8 No. 95-14N



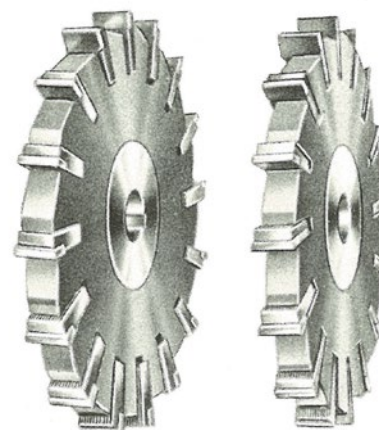
When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

900 SERIES

CUTTERS FOR CAST IRON						CUTTERS FOR LIGHT ALLOY	
	diameter	width	bore	code number	blades	code no	blades
1 1/2" bore 3/8" x 5/32" keyway	6"	5/8"	1 1/2"	9006G x 5/8" x 1 1/2"	10 No. 95-50N	9006M x 5/8" x 1 1/2"	6 No. 95-50N
	6"	3/4"	1 1/2"	9006G x 3/4" x 1 1/2"	10 No. 95-11N	9006M x 3/4" x 1 1/2"	6 No. 95-11N
	6"	7/8"	1 1/2"	9006G x 7/8" x 1 1/2"	10 No. 95-12N	9006M x 7/8" x 1 1/2"	6 No. 95-13N
	6"	1"	1 1/2"	9006G x 1" x 1 1/2"	10 No. 95-13N	9006M x 1" x 1 1/2"	6 No. 95-13N
	6"	1 1/4"	1 1/2"	9006G x 1 1/4" x 1 1/2"	10 No. 95-14N	9006M x 1 1/4" x 1 1/2"	6 No. 95-14N
	6"	1 1/2"	1 1/2"	9006G x 1 1/2" x 1 1/2"	10 No. 95-15N	9006M x 1 1/2" x 1 1/2"	6 No. 95-15N
	7"	3/4"	1 1/2"	9007G x 3/4" x 1 1/2"	12 No. 95-11N	9007M x 3/4" x 1 1/2"	8 No. 95-11N
	7"	1"	1 1/2"	9007G x 1" x 1 1/2"	12 No. 95-13N	9007M x 1" x 1 1/2"	8 No. 95-13N
	7"	1 1/4"	1 1/2"	9007G x 1 1/4" x 1 1/2"	12 No. 95-14N	9007M x 1 1/4" x 1 1/2"	8 No. 95-14N
	7"	1 1/2"	1 1/2"	9007G x 1 1/2" x 1 1/2"	12 No. 95-15N	9007M x 1 1/2" x 1 1/2"	8 No. 95-15N
	8"	3/4"	1 1/2"	9008G x 3/4" x 1 1/2"	14 No. 95-11N	9010M x 3/4" x 2"	8 No. 95-11N
	8"	1"	1 1/2"	9008G x 1" x 1 1/2"	12 No. 95-21N	9010M x 1" x 2"	8 No. 95-21N
	8"	1 1/4"	1 1/2"	9008G x 1 1/4" x 1 1/2"	12 No. 95-21N	9010M x 1 1/4" x 2"	8 No. 95-21N
	8"	1 1/2"	1 1/2"	9008G x 1 1/2" x 1 1/2"	12 No. 95-22N	9010M x 1 1/2" x 2"	8 No. 95-22N
	10"	3/4"	2"	9010G x 3/4" x 2"	18 No. 95-11N	9010M x 3/4" x 2"	10 No. 95-11N
	10"	1"	2"	9010G x 1" x 2"	16 No. 95-21N	9010M x 1" x 2"	10 No. 95-21N
	10"	1 1/4"	2"	9010G x 1 1/4" x 2"	16 No. 95-21N	9010M x 1 1/4" x 2"	10 No. 95-21N
	10"	1 1/2"	2"	9010G x 1 1/2" x 2"	16 No. 95-22N	9010M x 1 1/2" x 2"	10 No. 95-22N
	10"	2"	2"	9010G x 2" x 2"	16 No. 95-25N	9010M x 2" x 2"	10 No. 95-25N
	11"	3/4"	2"	9011G x 3/4" x 2"	20 No. 95-11N	9011M x 3/4" x 2"	12 No. 95-11N
	11"	1"	2"	9011G x 1" x 2"	18 No. 95-21N	9011M x 1" x 2"	12 No. 95-21N
	11"	1 1/4"	2"	9011G x 1 1/4" x 2"	18 No. 95-21N	9011M x 1 1/4" x 2"	12 No. 95-21N
	11"	1 1/2"	2"	9011G x 1 1/2" x 2"	18 No. 95-22N	9011M x 1 1/2" x 2"	12 No. 95-22N
	11"	2"	2"	9011G x 2" x 2"	18 No. 95-25N	9011M x 2" x 2"	12 No. 95-25N
2" bore 1/2" x 3/16" keyway	12"	3/4"	2"	9012G x 3/4" x 2"	22 No. 95-11N	9012M x 3/4" x 2"	12 No. 95-11N
	12"	1"	2"	9012G x 1" x 2"	20 No. 95-21N	9012M x 1" x 2"	12 No. 95-21N
	12"	1 1/4"	2"	9012G x 1 1/4" x 2"	20 No. 95-21N	9012M x 1 1/4" x 2"	12 No. 95-21N
	12"	1 1/2"	2"	9012G x 1 1/2" x 2"	20 No. 95-22N	9012M x 1 1/2" x 2"	12 No. 95-22N
	12"	2"	2"	9012G x 2" x 2"	20 No. 95-25N	9012M x 2" x 2"	12 No. 95-25N
	12"	2"	2"	9012G x 2" x 2"	20 No. 95-25N	9012M x 2" x 2"	12 No. 95-25N

Serrated Blade Cutters



HALF SIDE MILLING CUTTERS CEMENTED CARBIDE TIPPED

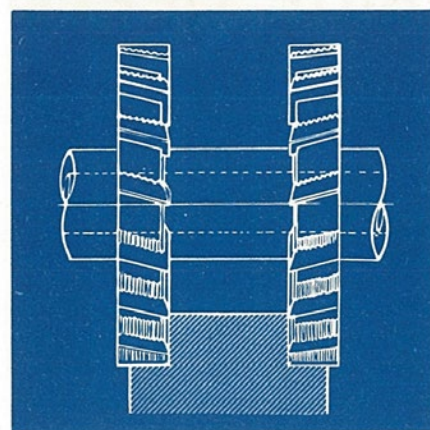
Cutting on one side and periphery, these tools may be used singly for face or step milling, or in pairs of one right- and one left-hand cutter for straddle milling. The "Galtona" Serrated Blades are tipped full width with cemented carbide, and are set at effective cutting angles, for facing or cutting into corners.

Intermediate and larger sizes to order, also tools with coarser or finer blade spacing. Straight Blade Cutters

can also be supplied. Tools for cutting steel are not listed; but enquiries will receive every consideration. The 920-G series cutters are intended as general purpose tools, and in addition to machining cast iron, will be found highly satisfactory on the milling of various non-ferrous materials such as brass and bronze. 95-series blades are used for both right- and left-hand cutting.

When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS						920 SERIES	
CUTTERS FOR CAST IRON						CUTTERS FOR LIGHT ALLOY	
	diameter	width	bore	code number	blades	code no	blades
1" bore 1/4" x 3/32" keyway	4"	1/2"	1"	9204G x 1/2" x 1"	8 No. 95-50N	9204M x 1/2" x 1"	4 No. 95-50N
	4"	5/8"	1"	9204G x 5/8" x 1"	8 No. 95-51N	9204M x 5/8" x 1"	4 No. 95-51N
	4"	3/4"	1"	9204G x 3/4" x 1"	8 No. 95-52N	9204M x 3/4" x 1"	4 No. 95-52N
	4"	7/8"	1"	9204G x 7/8" x 1"	8 No. 95-53N	9204M x 7/8" x 1"	4 No. 95-53N
	4"	1"	1"	9204G x 1" x 1"	8 No. 95-54N	9204M x 1" x 1"	4 No. 95-54N
	4"	1 1/4"	1"	9204G x 1 1/4" x 1"	8 No. 95-55N	9204M x 1 1/4" x 1"	4 No. 95-55N
	5"	1/2"	1"	9205G x 1/2" x 1"	10 No. 95-50N	9205M x 1/2" x 1"	6 No. 95-50N
	5"	5/8"	1"	9205G x 5/8" x 1"	10 No. 95-51N	9205M x 5/8" x 1"	6 No. 95-51N
	5"	3/4"	1"	9205G x 3/4" x 1"	10 No. 95-52N	9205M x 3/4" x 1"	6 No. 95-52N
	5"	7/8"	1"	9205G x 7/8" x 1"	10 No. 95-53N	9205M x 7/8" x 1"	6 No. 95-53N
	5"	1"	1"	9205G x 1" x 1"	10 No. 95-54N	9205M x 1" x 1"	6 No. 95-54N
	5"	1 1/4"	1"	9205G x 1 1/4" x 1"	10 No. 95-55N	9205M x 1 1/4" x 1"	6 No. 95-55N
	6"	1/2"	1"	9206G x 1/2" x 1"	10 No. 95-50N	9206M x 1/2" x 1"	8 No. 95-50N
	6"	5/8"	1"	9206G x 5/8" x 1"	10 No. 95-11N	9206M x 5/8" x 1"	8 No. 95-11N
	6"	3/4"	1"	9206G x 3/4" x 1"	10 No. 95-12N	9206M x 3/4" x 1"	8 No. 95-12N
	6"	1"	1"	9206G x 1" x 1"	10 No. 95-14N	9206M x 1" x 1"	8 No. 95-14N
	6"	1 1/4"	1"	9206G x 1 1/4" x 1"	10 No. 95-15N	9206M x 1 1/4" x 1"	8 No. 95-15N
	6"	1 1/2"	1"	9206G x 1 1/2" x 1"	10 No. 95-18N	9206M x 1 1/2" x 1"	8 No. 95-18N

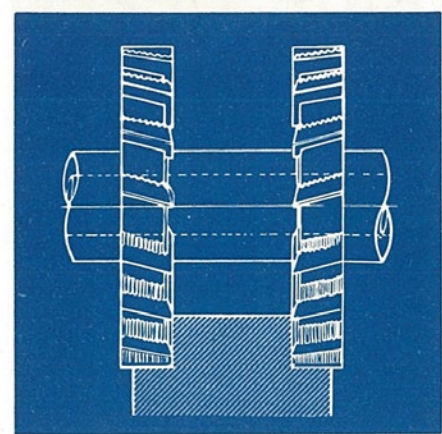


When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

920 SERIES

CUTTERS FOR CAST IRON						CUTTERS FOR LIGHT ALLOY	
	diameter	width	bore	code number	blades	code no	blades
1 1/4" bore 5/16" x 1/8" keyway	5"	1/2"	1 1/4"	9205G x 1/2" x 1 1/4"	10 No. 95-50N	9205M x 1/2" x 1 1/4"	6 No. 95-50N
	5"	5/8"	1 1/4"	9205G x 5/8" x 1 1/4"	10 No. 95-51N	9205M x 5/8" x 1 1/4"	6 No. 95-51N
	5"	3/4"	1 1/4"	9205G x 3/4" x 1 1/4"	10 No. 95-52N	9205M x 3/4" x 1 1/4"	6 No. 95-52N
	5"	7/8"	1 1/4"	9205G x 7/8" x 1 1/4"	10 No. 95-53N	9205M x 7/8" x 1 1/4"	6 No. 95-53N
	5"	1"	1 1/4"	9205G x 1" x 1 1/4"	10 No. 95-54N	9205M x 1" x 1 1/4"	6 No. 95-54N
	5"	1 1/4"	1 1/4"	9205G x 1 1/4" x 1 1/4"	10 No. 95-55N	9205M x 1 1/4" x 1 1/4"	6 No. 95-55N
	6"	1/2"	1 1/4"	9206G x 1/2" x 1 1/4"	10 No. 95-50N	9206M x 1/2" x 1 1/4"	6 No. 95-50N
	6"	5/8"	1 1/4"	9206G x 5/8" x 1 1/4"	10 No. 95-11N	9206M x 5/8" x 1 1/4"	6 No. 95-11N
	6"	3/4"	1 1/4"	9206G x 3/4" x 1 1/4"	10 No. 95-12N	9206M x 3/4" x 1 1/4"	6 No. 95-12N
	6"	1"	1 1/4"	9206G x 1" x 1 1/4"	10 No. 95-14N	9206M x 1" x 1 1/4"	6 No. 95-14N
	6"	1 1/4"	1 1/4"	9206G x 1 1/4" x 1 1/4"	10 No. 95-15N	9206M x 1 1/4" x 1 1/4"	6 No. 95-15N
	6"	1 1/2"	1 1/4"	9206G x 1 1/2" x 1 1/4"	10 No. 95-18N	9206M x 1 1/2" x 1 1/4"	6 No. 95-18N
	7"	5/8"	1 1/4"	9207G x 5/8" x 1 1/4"	12 No. 95-11N	9207M x 5/8" x 1 1/4"	8 No. 95-11N
	7"	3/4"	1 1/4"	9207G x 3/4" x 1 1/4"	12 No. 95-12N	9207M x 3/4" x 1 1/4"	8 No. 95-12N
	7"	1"	1 1/4"	9207G x 1" x 1 1/4"	12 No. 95-14N	9207M x 1" x 1 1/4"	8 No. 95-14N
	7"	1 1/4"	1 1/4"	9207G x 1 1/4" x 1 1/4"	12 No. 95-15N	9207M x 1 1/4" x 1 1/4"	8 No. 95-15N
	7"	1 1/2"	1 1/4"	9207G x 1 1/2" x 1 1/4"	12 No. 95-18N	9207M x 1 1/2" x 1 1/4"	8 No. 95-18N
1 1/2" bore 3/8" x 5/32" keyway	6"	1/2"	1 1/2"	9206G x 1/2" x 1 1/2"	10 No. 95-50N	9206M x 1/2" x 1 1/2"	6 No. 95-50N
	6"	5/8"	1 1/2"	9206G x 5/8" x 1 1/2"	10 No. 95-11N	9206M x 5/8" x 1 1/2"	6 No. 95-11N
	6"	3/4"	1 1/2"	9206G x 3/4" x 1 1/2"	10 No. 95-12N	9206M x 3/4" x 1 1/2"	6 No. 95-12N
	6"	1"	1 1/2"	9206G x 1" x 1 1/2"	10 No. 95-14N	9206M x 1" x 1 1/2"	6 No. 95-14N
	6"	1 1/4"	1 1/2"	9206G x 1 1/4" x 1 1/2"	10 No. 95-15N	9206M x 1 1/4" x 1 1/2"	6 No. 95-15N
	6"	1 1/2"	1 1/2"	9206G x 1 1/2" x 1 1/2"	10 No. 95-18N	9206M x 1 1/2" x 1 1/2"	6 No. 95-18N
	7"	5/8"	1 1/2"	9207G x 5/8" x 1 1/2"	12 No. 95-11N	9207M x 5/8" x 1 1/2"	8 No. 95-11N
	7"	3/4"	1 1/2"	9207G x 3/4" x 1 1/2"	12 No. 95-12N	9207M x 3/4" x 1 1/2"	8 No. 95-12N
	7"	1"	1 1/2"	9207G x 1" x 1 1/2"	12 No. 95-14N	9207M x 1" x 1 1/2"	8 No. 95-14N
	7"	1 1/4"	1 1/2"	9207G x 1 1/4" x 1 1/2"	12 No. 95-15N	9207M x 1 1/4" x 1 1/2"	8 No. 95-15N
	7"	1 1/2"	1 1/2"	9207G x 1 1/2" x 1 1/2"	12 No. 95-18N	9207M x 1 1/2" x 1 1/2"	8 No. 95-18N
	8"	3/4"	1 1/2"	9208G x 3/4" x 1 1/2"	14 No. 95-12N	9208M x 3/4" x 1 1/2"	8 No. 95-12N
	8"	1"	1 1/2"	9208G x 1" x 1 1/2"	12 No. 95-21N	9208M x 1" x 1 1/2"	8 No. 95-21N
	8"	1 1/4"	1 1/2"	9208G x 1 1/4" x 1 1/2"	12 No. 95-22N	9208M x 1 1/4" x 1 1/2"	8 No. 95-22N
	8"	1 1/2"	1 1/2"	9208G x 1 1/2" x 1 1/2"	12 No. 95-23N	9208M x 1 1/2" x 1 1/2"	8 No. 95-23N



When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

920 SERIES

CUTTERS FOR CAST IRON						CUTTERS FOR LIGHT ALLOY	
	diameter	width	bore	code number	blades	code no	blades
2" bore 1/2" x 3/16" keyway	10"	3/4"	2"	9210G x 3/4" x 2"	18 No. 95-12N	9210M x 3/4" x 2"	10 No. 95-12N
	10"	1"	2"	9210G x 1" x 2"	16 No. 95-21N	9210M x 1" x 2"	10 No. 95-21N
	10"	1 1/4"	2"	9210G x 1 1/4" x 2"	16 No. 95-22N	9210M x 1 1/4" x 2"	10 No. 95-22N
	10"	1 1/2"	2"	9210G x 1 1/2" x 2"	16 No. 95-23N	9210M x 1 1/2" x 2"	10 No. 95-23N
	11"	3/4"	2"	9211G x 3/4" x 2"	20 No. 95-12N	9211M x 3/4" x 2"	12 No. 95-12N
	11"	1"	2"	9211G x 1" x 2"	18 No. 95-21N	9211M x 1" x 2"	12 No. 95-21N
	11"	1 1/4"	2"	9211G x 1 1/4" x 2"	18 No. 95-22N	9211M x 1 1/4" x 2"	12 No. 95-22N
	11"	1 1/2"	2"	9211G x 1 1/2" x 2"	18 No. 95-23N	9211M x 1 1/2" x 2"	12 No. 95-23N
	12"	3/4"	2"	9212G x 3/4" x 2"	22 No. 95-12N	9212M x 3/4" x 2"	12 No. 95-12N
	12"	1"	2"	9212G x 1" x 2"	20 No. 95-21N	9212M x 1" x 2"	12 No. 95-21N
	12"	1 1/4"	2"	9212G x 1 1/4" x 2"	20 No. 95-22N	9212M x 1 1/4" x 2"	12 No. 95-22N
	12"	1 1/2"	2"	9212G x 1 1/2" x 2"	20 No. 95-23N	9212M x 1 1/2" x 2"	12 No. 95-23N

**Serrated blade
HSS
END MILLS
AND
FACE MILLS**

Nos. 640 and 640X Shank Type End Mills

Nos. 650 and Shell End Mills

Nos. 660C and Small Face Mills

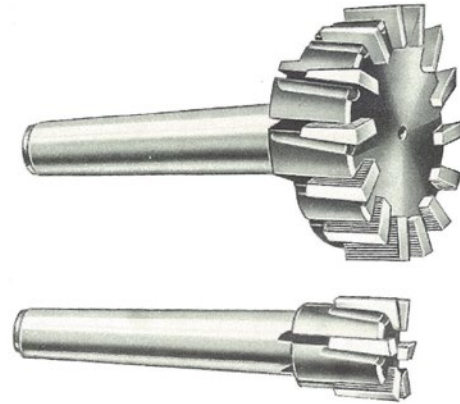
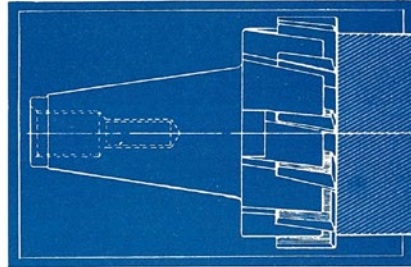
Nos. B650 and B650X Small Face Mills

No. 660A Face Mills to suit No. 40 Spindle Nose

Nos. 660, and Face Mills to suit No. 50 Spindle Nose

Arbors to suit

Serrated Blade Cutters



HSS SHANK TYPE END MILLS

For milling small faces, steps or channels. The "Galtona" Serrated Cutter Blade is fitted into a forged and heat treated alloy steel body.

Offered in two types, standard for ordinary operations, and the X series for heavy roughing operations.

Cutters made to any standard taper with tang or draw bolt, or to standardised Milling Machine Taper as shown.

Special shanks and shanks disproportionate to diameter of tool charged extra.

Cutters made to standard dimensions only are listed

with forged selected special High Speed Steel "Galtona" Cutter Blades. Intermediate and larger sizes to order at corresponding prices.

Closer or coarser blade spacing furnished if desired.

"Galtona" Serrated Blade Cutters can be made with as close as four Blades per inch of diameter.

Cutters with blades of T 15 Super H.S.S., SuperCobalt H.S.S., "Stellite" or Cemented Carbide Tipped can be supplied.

Blade No. 62-series used for Right Hand.

Blade No. 61-series used for Left Hand.

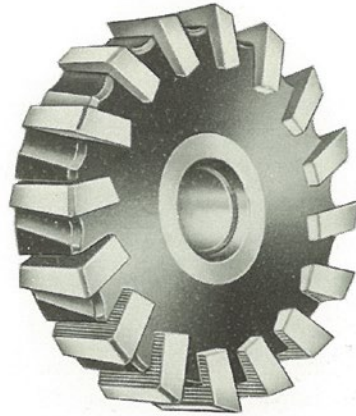
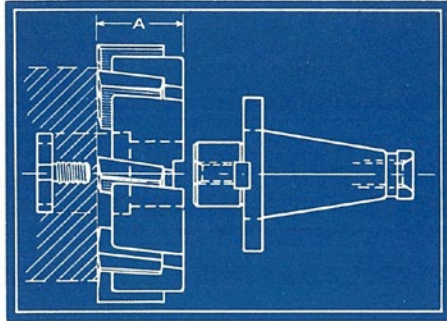
When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

640 AND 640X SERIES

CUTTERS FOR CAST IRON			HEAVY DUTY	
diameter	code number	blades	code no	blades (see note above)
1 ½"	64015	6 No. 62-1	—	—
2"	6402	6 No. 62-3	—	—
2 ½"	64025	6 No. 62-8	64025X	6 No. 62-12
3"	6403	8 No. 62-8	6403X	8 No. 62-12
3 ½"	64035	10 No. 62-6	64035X	8 No. 62-13
4"	6404	12 No. 62-6	6404X	10 No. 62-13
4 ½"	64045	12 No. 62-6	64045X	10 No. 62-14
5"	6405	14 No. 62-6	6405X	10 No. 62-14
5 ½"	64055	14 No. 62-6	64055X	12 No. 62-15
6"	6406	16 No. 62-14	6406X	12 No. 62-22
7"	—	—	6407X	14 No. 62-22
8"	—	—	6408X	14 No. 62-23

Serrated Blade Cutters



HSS ARBOR TYPE SHELL END MILLS

"Galtona" Shell End Mills are made to suit varying types of duty, namely: light, medium or heavy. Arbors adaptable to any milling machine or horizontal boring mill can be furnished. End keyway 3/8" by 5/12" with 1 1/4" bore.

Using the Galtona" Serrated Cutter Blade, the most simple and effective blade design, they give marked economy by having adjustment for regrinding and allowing renewal of the blade.

Cutters made to standard dimensions only are listed,

with forged selected special High Speed Steel "Galtona" Cutter Blades. Intermediate and larger sizes to order at corresponding prices.

Closer or coarser blade spacing furnished if desired. Cutters with blades of T15 Super H.S.S. Super- Cobalt H.S.S., "Stellite" or Cemented Carbide can also be supplied.

Blade No. 62-series used for Right Hand.

Blade No. 61-series used for Left Hand.

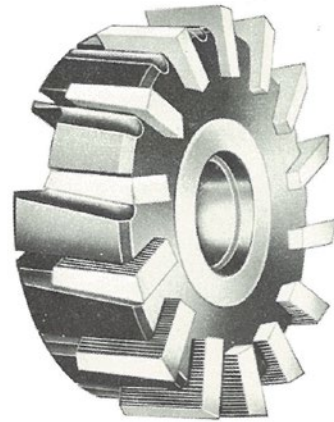
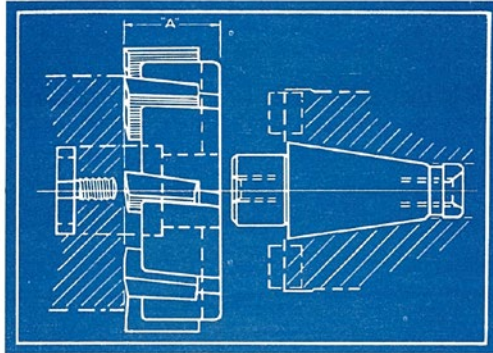
When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

650 AND 650X SERIES

CUTTERS FOR CAST IRON				HEAVY DUTY	
diameter	dia. "A"	code number	blades	code no	blades (see note above)
3 1/2"	1 27/64"	65035	10 No. 62-8	—	—
4"	1 27/64"	6504	12 No. 62-6	6504X	10 No. 62-13
4 1/2"	1 27/64"	65045	12 No. 62-6	65045X	10 No. 62-13
5"	1 27/64"	6505	14 No. 62-6	6505X	10 No. 62-14
5 1/2"	1 27/64"	65055	14 No. 62-6	65055X	10 No. 62-14
6"	1 47/64"	6506	16 No. 62-14	6506X	12 No. 62-22
7"	1 47/64"	6507	18 No. 62-14	6507X	14 No. 62-22
8"	1 47/64"	6508	20 No. 62-14	6508X	14 No. 62-22

Serrated Blade Cutters



HSS CENTRING ARBOB TYPE SMALL FACE MILLS

A really heavy duty drive for small face mills. Cutter is driven direct by keys in milling machine spindle. Arbor merely used to centre and hold cutter against the spindle nose. 1" by slot in cutter for Standardised Milling Machine Nose, with 1 k" bore. Cutters not made smaller than 4" diameter.

Made in Standard and Heavy Duty types. Using the "Galtona" Serrated Cutter Blade, the most simple and effective inserted blade design, they give marked economy by having adjustment for regrounding and allowing renewal of the blade.

Cutters made to standard dimensions only are listed, with forged selected special High Speed Steel "Galtona" Cutter Blades fitted into a forged and heat treated alloy steel body. Intermediate sizes to order at corresponding prices.

Closer or coarser blade spacing furnished if desired.

Cutters with blades of T15 Super H.S.S., Super Cobalt H.S.S., "Stellite" or Cemented Carbide can also be supplied.

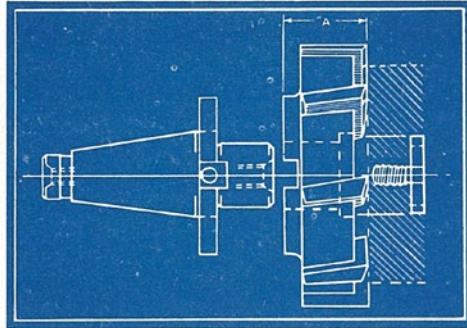
When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

660C AND 660CX SERIES

CUTTERS FOR CAST IRON				HEAVY DUTY		
diameter	dia. "A"	code number	blades	dia. "IA"	code no	blades (see note above)
4"	1 55/64"	6604C	12 No. 62-6	1 59/64"	6604CX	10 No. 62-13
4 1/2"	1 55/64"	66045C	12 No. 62-6	1 59/64"	66045CX	10 No. 62-13
5"	1 55/64"	6605C	14 No. 62-6	1 59/64"	6605CX	10 No. 62-14
5 1/2"	1 55/64"	66055C	14 No. 62-6	1 59/64"	66055CX	12 No. 62-14
6"	1 59/64"	6606C	16 No. 62-14	1 63/64"	6606CX	12 No. 62-22
7"	1 59/64"	6607C	18 No. 62-14	1 63/64"	6607CX	14 No. 62-22
8"	1 59/64"	6608C	20 No. 62-14	1 63/64"	6608CX	14 No. 62-22

Serrated Blade Cutters



SMALL FACE MILLS To Suit British Standard Arbors B.S 122-1953

These Face Mills have exactly the same cutting capabilities as the "Galtona" Serrated Blade Shell End Mills and Small Face Mills, but are designed to fit the British Standard Arbors as used for Solid High Speed Steel Face Mills to B.S. 122-1953. These cutters should therefore appeal particularly in cases where a change over from the use of solid tools is being effected. Made in standard and heavy duty types—closer or coarser blade spacing furnished if desired.

The "Galtona" Serrated Blades are easily adjusted for regrinding and renewed when necessary, showing marked economy in use. Intermediate sizes to order at corresponding prices.

Blade No. 62-series used for Right Hand.

Blade No. 61 -series used for Left Hand.

Cutters with blade of Tl 5 Super H.S.S., Super-Cobalt H.S.S., "Stellite" or Cemented Carbide can also be supplied.

When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

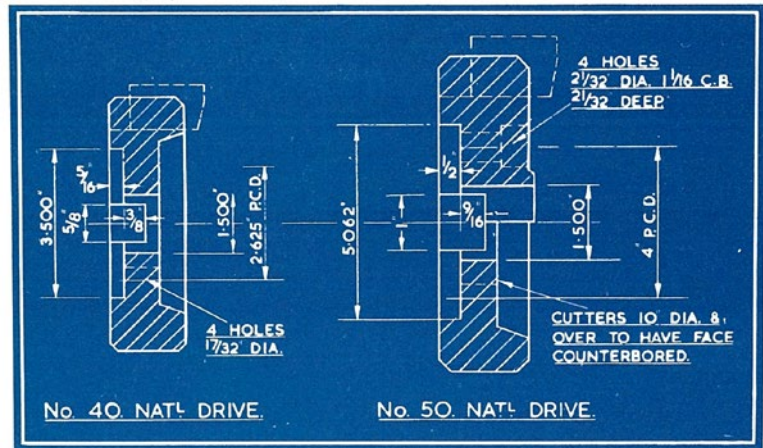
SPECIFICATIONS

B650 AND B650X SERIES

CUTTERS FOR CAST IRON						HEAVY DUTY		
diameter	bore	keyway	dia. "A"	code number	blades	dia. "IA"	code no	blades (see note above)
3"	1 1/4"	1/2" x 9/32"	1 3/4"	B6503	8 No. 62-3	—	—	—
3 1/2"	1 1/4"	1/2" x 9/32"	1 3/4"	B65035	10 No. 62-8	1 3/4"	B65035X	8 No. 62-12
4"	1 1/2"	5/8" x 3/8"	2"	B6504	12 No. 62-8	2"	B6504X	10 No. 62-12
4 1/2"	1 1/2"	5/8" x 3/8"	2"	B65045	12 No. 62-6	2"	B65045X	10 No. 62-13
5"	1 1/2"	5/8" x 3/8"	2"	B6505	14 No. 62-6	2 1/16"	B6505X	10 No. 62-14
5 1/2"	2"	3/4" x 7/16"	2"	B65055	14 No. 62-6	2 1/16"	B65055X	12 No. 62-14
6"	2"	3/4" x 7/16"	2 5/16"	B6506	16 No. 62-14	2 3/8"	B6506X	12 No. 62-22
7"	2"	3/4" x 7/16"	2 5/16"	B6507	18 No. 62-14	2 3/8"	B6507X	14 No. 62-22
8	2"	3/4" x 7/16"	2 5/16"	B6508	20 No. 62-14	2 3/8"	B6508X	14 No. 62-22

FACE MILLS

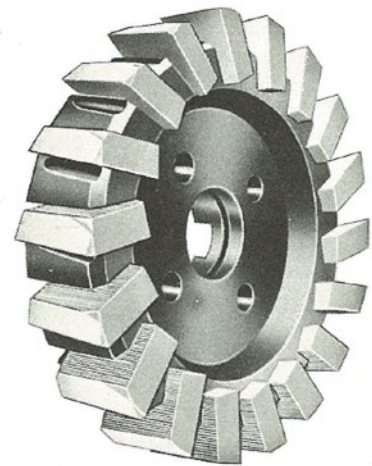
Face Mills are supplied standard to bolt direct on to a No. 40 or No. 50 milling machine spindle nose. Essential dimensions of the drives are shown on the left. Special cutters made to suit any milling or horizontal boring machine. Blades are set at 10° rake and spiral for general metal cutting ; also made with special angles for aluminium or other materials.



Serrated Blade Cutters

HSS FACE MILLING CUTTERS To Suite No.40 Spindle Nose

These Cutters are designed for bolting direct on to a No. 40 milling machine spindle nose and are suitable for light or medium duty. Cutters for heavy duty quoted for on request. Made right or left hand. Right hand Cutters listed. Left hand Cutters take 61 -series blades. Intermediate sizes to order at corresponding prices. Closer or coarser blade spacing to order. Cutters can be supplied with blade of T15 Super H.S.S., or Super-Cobalt H.S.S.



When Ordering Specify: Diameter, Width, Bore, Keyway, Material Milled, Right Or Left Hand

SPECIFICATIONS

660A SERIES

diameter	length of blade	code number	blades
6"	1 1/2"	6606A	16 No. 62-13
7"	1 1/2"	6607A	18 No. 62-14
8"	1 1/2"	6608A	20 No. 62-15
9"	1 1/2"	6609A	22 No. 62-15
10"	1 1/2"	6610A	24 No. 62-15
11"	1 1/2"	6611A	26 No. 62-15
12"	1 1/2"	6612A	26 No. 62-15

Serrated Blade Cutters

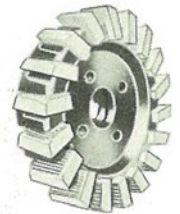
HSS FACE MILLING CUTTERS To Suit No. 50 Spindle Nose



MEDIUM DUTY



HEAVY DUTY



EXTRA HEAVY DUTY

For milling light, medium or finishing cuts. Blades are spaced close together to reduce chattering when milling parts of thin section. Closer blade spacing to order. Intermediate sizes to order at corresponding prices. Made right or left hand. Left hand take 61 -series blades. Cutters with special drives quoted for on request. Cutters can be supplied with blades of T 15 Super H.S.S., or Super-Cobalt H.S.S.

The "Galtona" Heavy Duty Face Mill is a coarse tooth cutter for use on heavy face milling operations. Cutting tests have proved that greatest cutting efficiency is obtained with a cutter of this type. Blade spacing is satisfactory for roughing or finishing on general work. Blades of ample thickness for heavy feeds.

Intermediate sizes to order at corresponding prices. Made Right or Left Hand. Left Hand take 61 -series blades.

Cutters with special drives quoted for on request.

Cutters can be supplied with blades of T 15 Super H.S.S., or Super-Cobalt H.S.S.

For milling large castings or forgings where a considerable amount of material has to be removed, we recommend the "Galtona" Extra Heavy Duty Face Mill. "Galtona" Serrated Cutter Blades, 4"3 thick, are inserted at very wide tooth spacing and generous overhang, allowing very heavy cuts in the toughest material to be taken. Cutter will stand up to any cut the heaviest milling machine will pull. Cutters listed are made to standard dimensions. Intermediate sizes to order at corresponding prices. Made Right or Left Hand. Left Hand take 61 - or 65-series blades.

Cutters can be supplied with blades of T 15 Super H.S.S., or Super-Cobalt H.S.S.

SPECIFICATIONS

660, 660X AND 660 XX SERIES

MEDIUM DUTY			HEAVY DUTY		EXTRA HEAVY DUTY	
diameter	code number	blades	code number	blades	code number	blades
7"	6607	18 No. 62-13	—	—	—	—
8"	6608	20 No. 62-14	6608X	14 No. 62-21	—	—
9"	6609	22 No. 62-15	6609X	16 No. 62-22	6609XX	12 No. 62-31
10"	6610	24 No. 62-15	6610X	18 No. 62-23	6610XX	14 No. 66-32
11"	6611	26 No. 62-15	6611X	20 No. 62-23	6611XX	14 No. 66-32
12"	6612	26 No. 62-15	6612X	20 No. 62-23	6612XX	16 No. 66-33
13"	6613	28 No. 62-15	6613X	22 No. 62-23	6613XX	16 No. 66-33
14"	6614	28 No. 62-15	6614X	22 No. 62-23	6614XX	18 No. 66-33
15"	6615	30 No. 62-15	6615X	24 No. 62-23	6615XX	18 No. 66-33
16"	6616	32 No. 62-15	6616X	24 No. 62-23	6616XX	20 No. 66-33
17"	6617	34 No. 62-15	6617X	26 No. 62-23	6617XX	20 No. 66-33
18"	6618	36 No. 62-15	6618X	28 No. 62-23	6618XX	22 No. 66-33
19"	6619	38 No. 62-15	6619X	28 No. 62-23	6619XX	22 No. 66-33
20"	6620	40 No. 62-15	6620X	30 No. 62-23	6620XX	24 No. 66-33
22"	6622	44 No. 62-15	6622X	32 No. 62-23	6622XX	26 No. 66-33
24"	6624	48 No. 62-15	6624X	36 No. 62-23	6624XX	28 No. 66-33

ARBORS FOR SHELL END MILLS AND FACE MILLS

MANUFACTURED OF ALLOY STEEL, FORGED AND HEAT TREATED
SUPPLIED COMPLETE WITH SCREW—WRENCHES CHARGED EXTRA

ARBORS TO SUIT 650 AND 650X SERIES CUTTERS

When ordering specify: no., taper drive and make of milling or horizontal boring machine

arbor no.	taper shank	arbor no.	taper shank
5801	No. 9 B. & S. 5/8" X 11 Tapped Hole	5807	No. 4 Morse 5/8" x 11 Tapped Hole
5802	No. 10 B. & S. 5/8" X 11 Tapped Hole	5808	No. 5 Morse 5/8" x 11 Tapped Hole
5803	No. 11 B. & S. 5/8" X 11 Tapped Hole	5809	No. 6 Morse 5/8" x 11 Tapped Hole
5804	No. 12 B. & S. 5/8" X 11 Tapped Hole	5830	No. 50 Spindle Nose
5805	No. 14 B. & S. 5/8" X 11 Tapped Hole	5831	No. 40 Spindle Nose
5806	No. 3 Morse 1/2" X 12 Tapped Hole		
	Extra Screws No. 580-2A		Wrenches No. 580-5A

ARBORS TO SUIT 660C AND 650CX SERIES CUTTERS

When ordering specify: arbor no., taper, no. and make of machine

arbor no.	taper shank	
5850	No. 9 B. & S. 5/8" X 11 Tapped Hole	Extra Screws 580-2A for Arbors 5850-1, 2, 3, 5. 5860 and 61
5851	No. 10 B. & S. 5/8" X 11 Tapped Hole	Wrenches 580-5A for Arbors 5850-1, 2, 3, 5. 5860 and 61
5852	No. 11 B. & S. 5/8" X 11 Tapped Hole	Extra Screws 580-3A for Arbor 5862
5853	No. 12 B. & S. 5/8" X 11 Tapped Hole	Wrenches 580-6A for Arbor 5862
5855	No. 14 B. & S. 5/8" X 11 Tapped Hole	Extra Screws 580-4A for Arbor 5864
5860	No. 50 Spindle Nose (To suit 1 1/4" Bore)	Wrenches 580-7A for Arbor 5864
5861	No. 40 Spindle Nose (To suit 1 1/4" Bore)	
5862	No. 50 Spindle Nose (To suit 1 1/2" Bore)	
5864	No. 50 Spindle Nose (To suit 2" Bore)	

ARBORS TO SUIT CUTTER MADE TO B.S. 122-1953 ---B650 AND B650X SERIES CUTTERS

arbor no.	taper shank	cutter bore	
5844	40 Spindle Nose	1 1/4"	Extras Screws 580-2A for Arbor No. 5844-5845
5845	50 Spindle Nose	1 1/4"	Wrenches 580-5A for Arbor No. 5844-5845
5846	40 Spindle Nose	1 1/2"	Extras Screws 580-3A for Arbor No. 5846-5847
5847 5848	50 Spindle Nose	1 1/2"	Wrenches 580-6A for Arbor No. 5846-5847
	50 Spindle Nose	2"	Extras Screws 580-4A for Arbor No. 5848
			Wrenches 580-7A for Arbor No. 5848