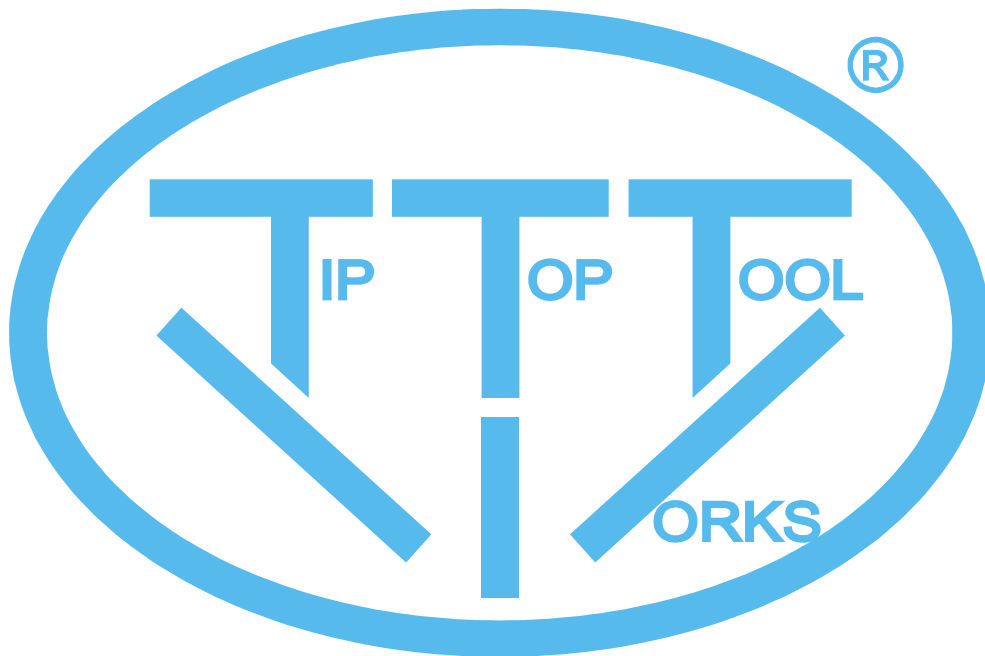


TIPTOP TOOLWORKS

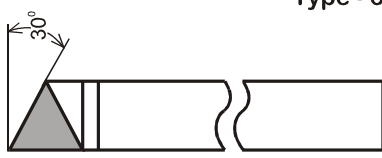
Manufacturer of Carbide Tipped Tools

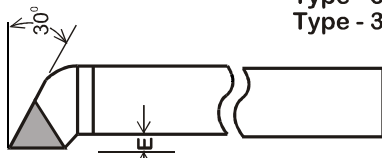



BRAZED TURNING TOOLS

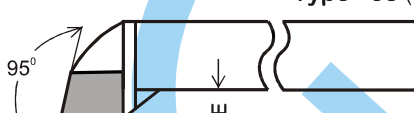
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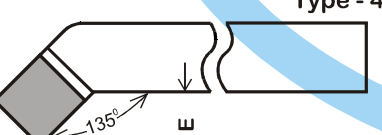
BRAZED TURNING TOOLS FOR LATHE

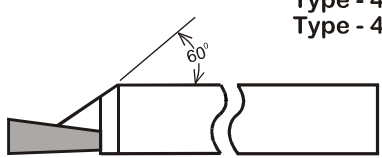
 <p>Type - 31 (right handed) Type - 32 (left handed)</p> <p>Bar Turning Tool Right Hand Shown</p>	Cat. No.		Dimensions	
	Right	Left	Shank Size	Blank Size
	31-1	32-1	10 X 10 X 70	Triangular 3/8"
	31-2	32-2	12 X 12 X 90	Triangular 1/2"
	31-3	32-3	16 X 16 X 110	Triangular 3/4"
	31-4	32-4	20 X 20 X 125	Triangular 3/4"
	31-5	32-5	20 X 20 X 140	Triangular 3/4"
31-6	32-6	25 X 25 X 140	Triangular 3/4"	

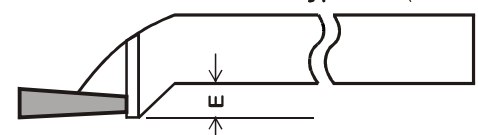
 <p>Type - 33 (right handed) Type - 34 (left handed)</p> <p>Cranked Turning Tool Right Hand Shown</p>	Cat. No.		Dimensions		
	Right	Left	Shank Size	Blank Size	E
	33-1	34-1	12 X 12 X 90	Triangular 1/2"	8
	33-2	34-2	16 X 16 X 110	Triangular 3/4"	12
	33-3	34-3	20 X 20 X 125	Triangular 3/4"	12
33-4	34-4	25 X 25 X 140	Triangular 3/4"	12	

 <p>Type - 35 (right handed) Type - 36 (left handed)</p> <p>Bar Turning Tool Right Hand Shown</p>	Cat. No.		Dimensions	
	Right	Left	Shank Size	Blank Size
	35-1	36-1	12 X 12 X 90	Square 1/2"
	35-2	36-2	16 X 16 X 110	Square 5/8"
	35-3	36-3	20 X 20 X 125	Square 5/8"
35-4	36-4	25 X 25 X 140	Square 3/4"	

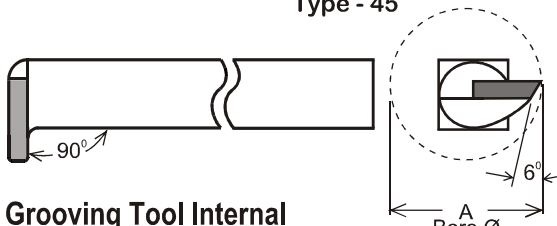
 <p>Type - 37 (right handed) Type - 38 (left handed)</p> <p>Cranked Turning & Facing Tool Right Hand Shown</p>	Cat. No.		Dimensions		
	Right	Left	Shank Size	Blank Size	E
	37-1	38-1	12 X 12 X 90	Square 1/2"	8
	37-2	38-2	16 X 16 X 110	Square 5/8"	12
	37-3	38-3	20 X 20 X 125	Square 5/8"	12
37-4	38-4	25 X 25 X 140	Square 3/4"	12	

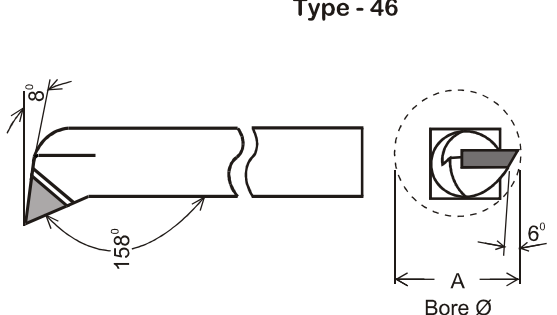
 <p>Type - 39 (right handed) Type - 40 (left handed)</p> <p>Cranked Turning & Facing Tool Right Hand Shown</p>	Cat. No.		Dimensions		
	Right	Left	Shank Size	Blank Size	E
	39-1	40-1	12 X 12 X 100	Square 1/2"	12
	39-2	40-2	16 X 16 X 125	Square 5/8"	14
	39-3	40-3	20 X 20 X 145	Square 3/4"	15
39-4	40-4	25 X 25 X 150	Square 3/4"	15	

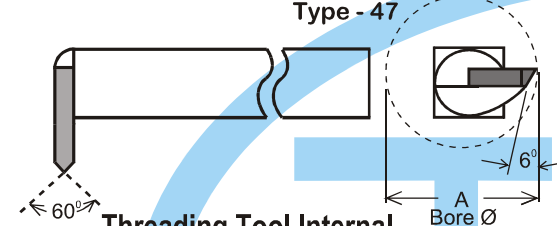
 <p>Type - 41 (right handed) Type - 42 (left handed)</p> <p>Parting Tool Right Hand Shown</p>	Cat. No.		Dimensions	
	Right	Left	Shank Size	Blank Size
	41-1	42-1	10 X 10 X 150	4 X 4 X 25
	41-2	42-2	12 X 12 X 90	4 X 4 X 15
	41-3	42-3	16 X 16 X 110	4 X 4 X 25
	41-4	42-4	20 X 20 X 125	4 X 4 X 25
	41-5	42-5	25 X 25 X 140	4 X 4 X 25
41-6	42-6	25 X 16 X 140	4 X 4 X 25	

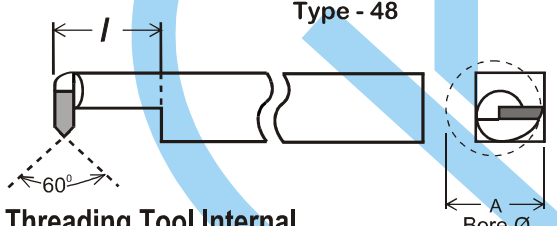
 <p>Type - 43 (right handed) Type - 44 (left handed)</p> <p>Cranked Parting Tool Right Hand Shown</p>	Cat. No.		Dimensions		
	Right	Left	Shank Size	Blank Size	E
	43-1	44-1	12 X 12 X 100	4 X 4 X 15	8
	43-2	44-2	16 X 16 X 125	4 X 4 X 25	8
43-3	44-3	20 X 20 X 150	4 X 4 X 25	10	

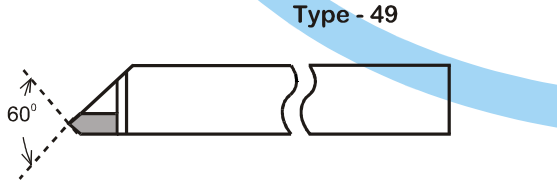
BRAZED TURNING TOOLS FOR LATHE

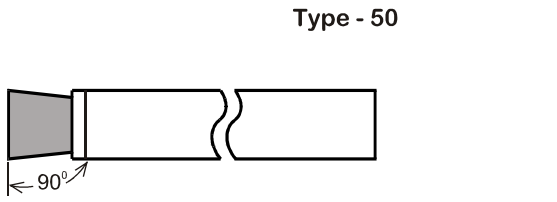
Type - 45  Grooving Tool Internal	Cat. No.	Dimensions		
		Shank Size	Blank Size	ØA
	45-1	12 X 12 X 150	4 X 4 X 20	20
	45-2	16 X 16 X 175	4 X 4 X 21	25
	45-3	20 X 20 X 200	4 X 4 X 25	36
	45-4	25 X 25 X 250	4 X 4 X 25	44

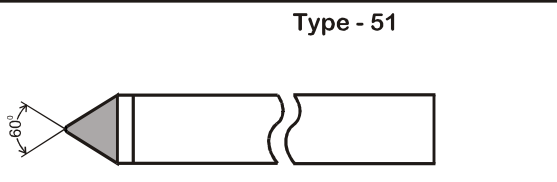
Type - 46  Boring Tool	Cat. No.	Dimensions		
		Shank Size	Blank Size	ØA
	46-1	10 X 10 X 150	Triangular 3/8"	12
	46-2	10 X 10 X 150	Triangular 3/8"	16
	46-3	12 X 12 X 150	Triangular 1/2"	20
	46-4	16 X 16 X 175	Triangular 3/4"	28
	46-5	16 X 16 X 200	Triangular 3/4"	28
	46-6	20 X 20 X 175	Triangular 3/4"	34
	46-7	20 X 20 X 200	Triangular 3/4"	34
	46-8	20 X 20 X 250	Triangular 3/4"	34
	46-9	25 X 25 X 300	Triangular 1"	50

Type - 47  Threading Tool Internal	Cat. No.	Dimensions		
		Shank Size	Blank Size	ØA
	47-1	12 X 12 X 150	4 X 4 X 20	20
	47-2	16 X 16 X 175	4 X 4 X 21	26
	47-3	20 X 20 X 200	4 X 4 X 25	36
	47-4	25 X 25 X 250	6 X 6 X 25	44

Type - 48  Threading Tool Internal	Cat. No.	Dimensions			
		Shank Size	Blank Size	ØA	I
	48-1	12 X 12 X 150	4 X 4 X 10	12	30
	48-2	16 X 16 X 175	4 X 4 X 15	16	50
	48-3	20 X 20 X 200	4 X 4 X 18	20	50

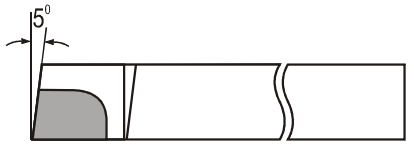
Type - 49  Threading Tool External	Cat. No.	Dimensions	
		Shank Size	Blank Size
	49-1	16 X 16 X 110	4 X 4 X 25
	49-2	20 X 20 X 125	4 X 4 X 25
	49-3	25 X 25 X 140	6 X 4 X 25

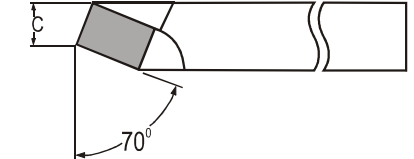
Type - 50  Recessing Tool	Cat. No.	Dimensions	
		Shank Size	Blank Size
	50-1	10 X 10 X 150	Square 1/2"
	50-2	12 X 12 X 90	Square 1/2"
	50-3	16 X 16 X 110	Square 5/8"
	50-4	20 X 20 X 125	Square 3/4"

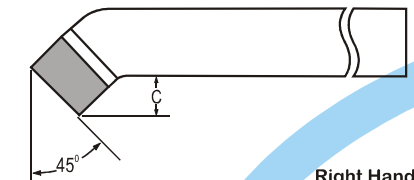
Type - 51  Turning & Grooving "V" Tool	Cat. No.	Dimensions	
		Shank Size	Blank Size
	51-1	10 X 10 X 70	Triangular 3/8"
	51-2	12 X 12 X 90	Triangular 1/2"
	51-3	16 X 16 X 110	Triangular 3/4"
	51-4	20 X 20 X 125	Triangular 3/4"
	51-5	25 X 25 X 140	Triangular 3/4"

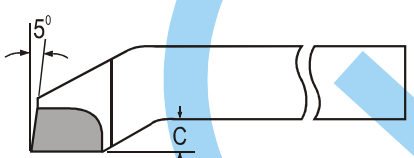
All dimensions are in MM if not specified.

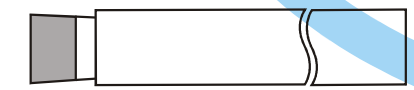
ISO - STANDARD BRAZED TURNING TOOLS FOR LATHE

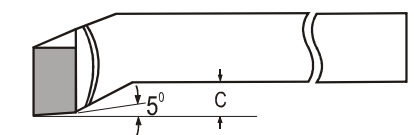
Bar Turning Tool - 116 	Cat. No.		Dimensions Shank Size	Blank Size	
	Right	Left		RH	LH
Right Hand Shown	116-R	116-L	10 X 10 X 70	A 12	B 12
	116-R	116-L	12 X 12 X 90	A 12	B 12
	116-R	116-L	16 X 16 X 110	A 16	B 16
	116-R	116-L	20 X 20 X 125	A 16	B 16
	116-R	116-L	25 X 25 X 140	A 20	B 20

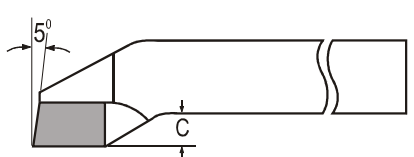
ISO-1 Bar Turning Tool - 110 	Cat. No.		Dimensions Shank Size	Blank Size	
	Right	Left			C
Right Hand Shown	ISO1R	ISO1L	10 X 10 X 70	C 12	6
	ISO1R	ISO1L	12 X 12 X 90	C 12	7
	ISO1R	ISO1L	16 X 16 X 110	C 16	10
	ISO1R	ISO1L	20 X 20 X 125	C 16	12
	ISO1R	ISO1L	25 X 25 X 140	C 20	15

ISO-2 Cranked Turning & Facing Tool - 111 	Cat. No.		Dimensions Shank Size	Blank Size	
	Right	Left			C
Right Hand Shown	ISO2R	ISO2L	10 X 10 X 70	C 10	6
	ISO2R	ISO2L	12 X 12 X 90	C 12	7
	ISO2R	ISO2L	16 X 16 X 110	C 16	8
	ISO2R	ISO2L	20 X 20 X 125	C 16	10
	ISO2R	ISO2L	25 X 25 X 140	C 20	12

ISO - 3 Cranked Turning & Facing Tool 	Cat. No.		Dimensions Shank Size	Blank Size		
	Right	Left		RH	LH	C
Right Hand Shown	ISO3R	ISO3L	10 X 10 X 70	A 12	B 12	5
	ISO3R	ISO3L	12 X 12 X 90	A 12	B 12	5
	ISO3R	ISO3L	16 X 16 X 110	A 16	B 16	8
	ISO3R	ISO3L	20 X 20 X 125	A 16	B 16	10
	ISO3R	ISO3L	25 X 25 X 140	A 20	B 20	12


ISO-4 Recessing Tool - 127 	Cat. No.		Dimensions Shank Size	Blank Size	
Right Hand Shown	ISO4		10 X 10 X 70	C 10	
	ISO4		12 X 12 X 90	C 12	
	ISO4		16 X 16 X 110	C 16	
	ISO4		20 X 20 X 125	C 20	
	ISO4		25 X 25 X 140	C 25	

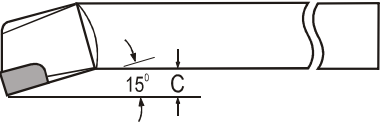
ISO - 5 Cranked Facing Tool - 126 	Cat. No.		Dimensions Shank Size	Blank Size	
					C
Right Hand Shown	ISO5		10 X 10 X 70	C 10	5
	ISO5		12 X 12 X 90	C 12	6
	ISO5		16 X 16 X 110	C 16	8
	ISO5		20 X 20 X 125	C 16	10
	ISO5		25 X 25 X 140	C 20	12

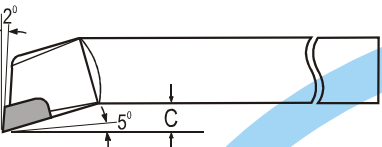
ISO - 6 Cranked Knife Tool - 117 	Cat. No.		Dimensions Shank Size	Blank Size	
	Right	Left			C
Right Hand Shown	ISO6R	ISO6L	10 X 10 X 70	C 10	5
	ISO6R	ISO6L	12 X 12 X 90	C 12	7
	ISO6R	ISO6L	16 X 16 X 110	C 16	8
	ISO6R	ISO6L	20 X 20 X 125	C 16	10
	ISO6R	ISO6L	25 X 25 X 140	C 20	12

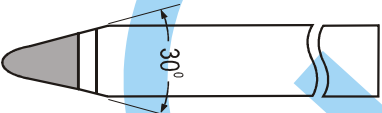
All dimensions are in MM if not specified.

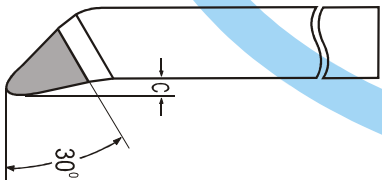
ISO - STANDARD BRAZED TURNING TOOLS FOR LATHE

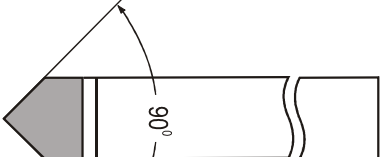
ISO - 7 Parting Tool	Cat. No.		Dimensions	Blank Size
	Right	Left	Shank Size	
 <p style="text-align: center;">Right Hand Shown</p>	ISO7R	ISO7L	10 X 06 X 90	D 3
	ISO7R	ISO7L	12 X 08 X 100	D 3
	ISO7R	ISO7L	16 X 10 X 110	D 4
	ISO7R	ISO7L	20 X 12 X 125	D 5
	ISO7R	ISO7L	25 X 16 X 140	D 6

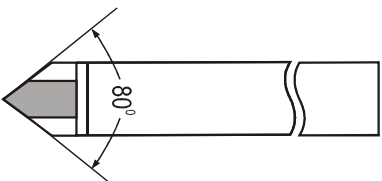
ISO-8 Boring Bar	Cat. No.	Dimensions	Blank Size	
		Shank Size	A	C
	ISO8	10 X 10 X 150	A 10	4
	ISO8	12 X 12 X 180	A 12	5
	ISO8	16 X 16 X 210	A 16	6
	ISO8	20 X 20 X 250	A 16	8
	ISO8	25 X 25 X 300	A 20	10

ISO-9 Boring & Facing Bar	Cat. No.	Dimensions	Blank Size	
		Shank Size	A	C
	ISO9	10 X 10 X 150	A 10	4
	ISO9	12 X 12 X 180	A 12	5
	ISO9	16 X 16 X 210	A 16	6
	ISO9	20 X 20 X 250	A 16	8
	ISO9	25 X 25 X 300	A 20	10

Straight Round Nose Turning Tool - 113	Cat. No.	Dimensions	Blank Size
		Shank Size	
	113	10 X 10 X 90	G 8
	113	12 X 12 X 100	G 10
	113	16 X 16 X 110	G 12
	113	20 X 20 X 125	G 16
	113	25 X 25 X 140	G 20

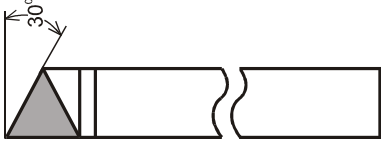

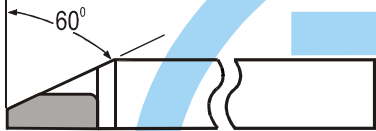
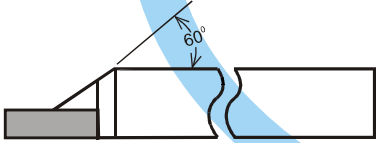
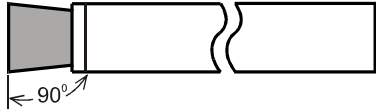
Cranked Round Nose Turning Tool - 115	Cat. No.	Dimensions	Blank Size	
		Shank Size	G	C
	115	10 X 10 X 90	G 8	3
	115	12 X 12 X 100	G 10	3.5
	115	16 X 16 X 110	G 12	4.5
	115	20 X 20 X 125	G 16	4.8
	115	25 X 25 X 140	G 20	5.5

Turning & Grooving Tool - 163	Cat. No.	Dimensions	Blank Size
		Shank Size	
	163	10 X 10 X 90	F 10
	163	12 X 12 X 100	F 12
	163	16 X 16 X 110	F 16
	163	20 X 20 X 125	F 20
	163	25 X 25 X 140	F 25

Straight Finishing Tool - 122	Cat. No.	Dimensions	Blank Size
		Shank Size	
	122	10 X 10 X 90	E 5
	122	12 X 12 X 100	E 6
	122	16 X 16 X 110	E 8
	122	20 X 20 X 125	E 10
	122	25 X 25 X 140	E 12

All dimensions are in MM if not specified.

BRAZED TURNING TOOLS FOR AUTOMATIC LATHE (TRAUB)

Bar Turning Tool - 31 	Cat. No.	Dimensions	Blank Size	
	Right	Shank Size		
	31-7	10 X 10 X 100	Triangular 1/2"	
	31-8	10 X 10 X 150	Triangular 1/2"	
	31-9	12 X 12 X 150	Triangular 1/2"	
				
Turning Tool - 196 	Cat. No.	Dimensions	Blank Size	
	Right	Shank Size		
	196-1	10 X 10 X 150	4 X 4 X 25	
	196-2	12 X 12 X 150	4 X 4 X 25	
Parting Tool - 197  <p style="text-align: center; font-size: small;">Right Hand Shown</p>	Cat. No.	Dimensions	Blank Size	
	Right	Left	Shank Size	
	41-1	42-1	10 X 10 X 150	4 X 4 X 25
	41-7	42-7	12 X 12 X 150	4 X 4 X 25
Recessing Tool - 50-1 	Cat. No.	Dimensions	Blank Size	
	Right	Shank Size		
	50-1	10 X 10 X 150	Square 1/2"	
	50-5	10 X 16 X 150	Square 5/8"	

When ordering the tools, kindly state:

Example :

	Cat. No.	Size	ISO grades	Quantity
A.	Type 33-3	20X20X125	P 40	5 pieces
B.	ISO 6R	20X20X125	P 30	5 pieces

TIPTOP TOOL WORKS

Office & Works

Plot No. C-10/1, Gala No.35, NICE, Satpur, Nashik - 422 007. (Maharashtra) INDIA

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E-mail : tiptoptoolworks@yahoo.co.in, sales@tiptoptoolworks.com