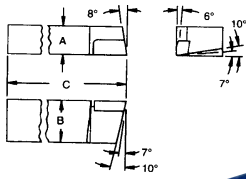


Cutting Tools

CARBIDE TIPPED TOOL BITS

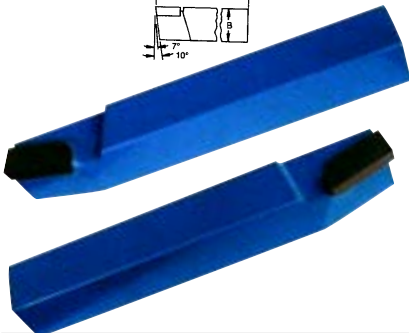
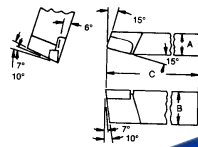
Grade C-2 for Cast Iron and Non-Ferrous Materials, Grade C-6 for Steel and Steel Alloys Premium Carbide



STYLE AR & AL

Straight Turning-for general machining applications such as turning, boring, facing and chamfering. Suitable for machining to a 90° shoulder.

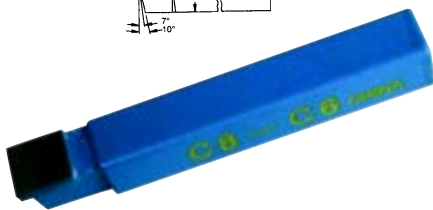
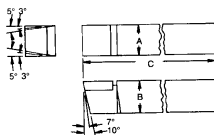
Square	Length	Right Hand		Left Hand			
		Industry Number	C-2 Model No.	C-6 Model No.	Industry number	C-2 Model No.	Left Hand C-6 Model No.
1/4"	2"	AR-4	383-0012	383-0016	AL-4	383-0112	383-0116
5/16"	2-1/4"	AR-5	383-0022	383-0026	AL-5	383-0122	383-0126
3/8"	2-1/2"	AR-6	383-0032	383-0036	AL-6	383-0132	383-0136
7/16"	3"	AR-7	383-0042	383-0046	AL-7	383-0142	383-0146
1/2"	3-1/2"	AR-8	383-0052	383-0056	AL-8	383-0152	383-0156
5/8"	4"	AR-10	383-0062	383-0066	AL-10	383-0162	383-0166
3/4"	4-1/2"	AR-12	383-0072	383-0076	AL-12	383-0172	383-0176
1"	6"	AR-16	383-0082	383-0086	AL-16	383-0182	383-0186



STYLE BR & BL

Lead Angle turning - for general applications on turning, boring, and facing where a lead angle is either required or acceptable.

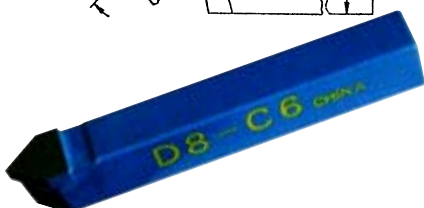
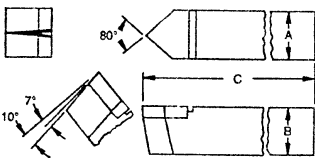
Square	Length	Right Hand		Left Hand			
		Industry number	C-2 Model No.	C-6 Model No.	Number	C-2 Model No.	Left Hand C-6 Model No.
1/4"	2"	BR-4	383-1012	383-1016	BL-4	383-1112	383-1116
5/16"	2-1/4"	BR-5	383-1022	383-1026	BL-5	383-1122	383-1126
3/8"	2-1/2"	BR-6	383-1032	383-1036	BL-6	383-1132	383-1136
7/16"	3"	BR-7	383-1042	383-1046	BL-7	383-1142	383-1146
1/2"	3-1/2"	BR-8	383-1052	383-1056	BL-8	383-1152	383-1156
5/8"	4"	BR-10	383-1062	383-1066	BL-10	383-1162	383-1166
3/4"	4-1/2"	BR-12	383-1072	383-1076	BL-12	383-1172	383-1176
1"	6"	BR-16	383-1082	383-1086	BL-16	383-1182	383-1186



STYLE C:

Broad nose - a general purpose tool of great utility for facing, chamfering, and turning. This tool is generally used for making special form tools.

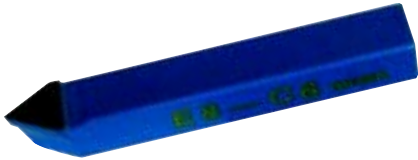
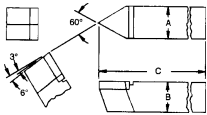
Square	Length	Industry No.	C-2	C-6
			Model No.	Model No.
1/4"	2"	C-4	383-2002	383-2006
5/16"	2-1/4"	C-5	383-2012	383-2016
3/8"	2-1/2"	C-6	383-2022	383-2026
7/16"	3"	C-7	383-2032	383-2036
1/2"	3-1/2"	C-8	383-2042	383-2046
5/8"	4"	C-10	383-2052	383-2056
3/4"	4-1/2"	C-12	383-2062	383-2066
1"	6"	C-16	383-2072	383-2076



STYLE D

80° Round nose - an 80° included angle round nose tool for turning, boring, facing, chamfering and other miscellaneous machining operations.

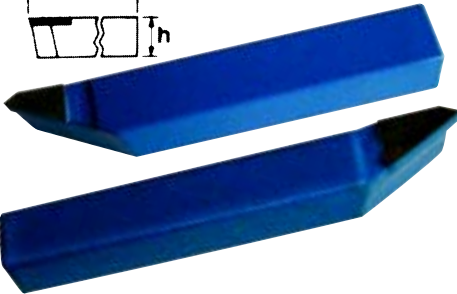
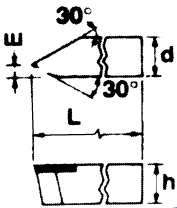
Square	Length	Industry No.	C-2 Model No.	C-6 Model No.
1/4"	2"	D-4	383-3012	383-3016
5/16"	2-1/4"	D-5	383-3022	383-3026
3/8"	2-1/2"	D-6	383-3032	383-3036
7/16"	3"	D-7	383-3042	383-3046
1/2"	3-1/2"	D-8	383-3052	383-3056
5/8"	4"	D-10	383-3062	383-3066
3/4"	4-1/2"	D-12	383-3072	383-3076
1"	6"	D-16	383-3082	383-3086



STYLE E

Threading - conforms with the U.S. Standard 60° included angle thread, also used for V-grooving chamfering, turning, boring and facing.

Square	Length	Industry No.	C-2 Model No.	C-6 Model No.
1/4"	2"	E-4	383-4002	383-4006
5/16"	2-1/4"	E-5	383-4012	383-4016
3/8"	2-1/2"	E-6	383-4022	383-4026
7/16"	3"	E-7	383-4032	383-4036
1/2"	3-1/2"	E-8	383-4042	383-4046
5/8"	4"	E-10	383-4052	383-4056
3/4"	4-1/2"	E-12	383-4062	383-4066
1"	6"	E-16	383-4072	383-4076

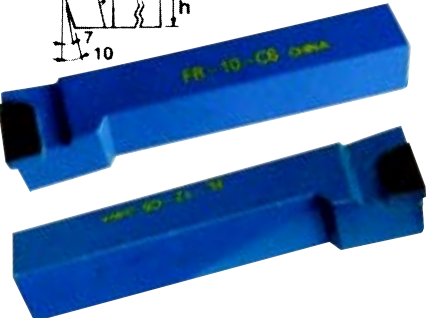
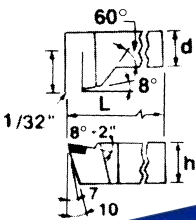


STYLES ER-RIGHT AND EL-LEFT

60° Offset Tool, Right hand for facing to square shoulder. Used mainly for turret lathe operations. Right and left hand tools are used together for straddle facing. Left hand for turning.

				R.H. Industry No.	ER.R.H. C-2 Model No.	ER.R.H. C-6 Model No.	L. H. Industry No.	EL.L.H. C-2 Model No.	EL.L.H. C-6 Model No.
E	D	H	L	No.			No.		
1/16"	1/4"	1/4"	2"	ER-4	383-6202	383-6206	EL-4	383-6302	383-6306
1/16"	5/16"	5/16"	2-1/4"	ER-5	383-6232	383-6236	EL-5	383-6332	383-6336
1/16"	3/8"	3/8"	2-1/2"	ER-6	383-6212	383-6216	EL-6	383-6312	383-6316
1/8"	1/2"	1/2"	3-1/2"	ER-8	383-6222	383-6226	EL-8	383-6322	383-6326
1/8"	5/8"	5/8"	4"	ER-10	383-6242	383-6246	EL-10	383-6342	383-6346

FR & FL

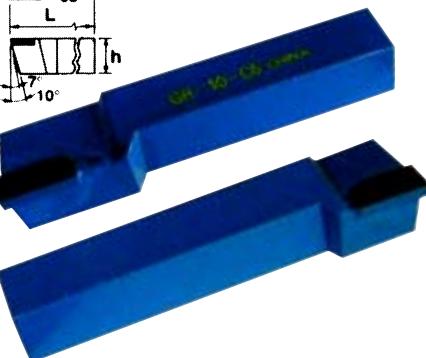
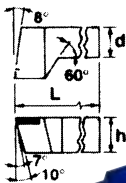


STYLES FR-RIGHT AND FL-LEFT

End Cutting Offset Tool, right hand for facing to square shoulder. Used mainly for turret lathe operations. Right and left hand tools are used together for straddle facing. Left hand for turning.

				R. H. Industry No.	FR.R.H. C-2 Model No.	FR.R.H. C-6 Model No.	L. H. Industry No.	FL.L.H. C-2 Model No.	FL.L.H. C-6 Model No.
E	D	H	L	No.			No.		
1/32"	1/2"	1/2"	3-1/2"	FR-8	383-8002	383-8006	FL-8	383-8102	383-8106
1/32"	5/8"	5/8"	4"	FR-10	383-8012	383-8016	FL-10	383-8112	383-8116
1/32"	3/4"	3/4"	4-1/2"	FR-12	383-8022	383-8026	FL-12	383-8122	383-8126
1/32"	1"	1"	6"	FR-16	383-8032	383-8036	FL-16	383-8132	383-8136

GR & GL



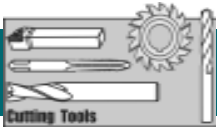
STYLES GR-RIGHT AND GL-LEFT

Right, left hand for facing to square shoulder.

Side cutting offset tools.

Ideal for facing work close to chuck jaws on engine lathes, turret lathes, boring mills and vertical turret lathes.

				R. H. Industry No.	GR.R.H. C-2 Model No.	GR.R.H. C-6 Model No.	L. H. Industry No.	GL.L.H. C-2 Model No.	GL.L.H. C-6 Model No.
E	D	H	L	No.			No.		
1/32"	1/2"	1/2"	3-1/2"	GR-8	383-8202	383-8206	GL-8	383-8302	383-8306
1/32"	5/8"	5/8"	4"	GR-10	383-8212	383-8216	GL-10	383-8312	383-8316
1/32"	3/4"	3/4"	4-1/2"	GR-12	383-8232	383-8236	GL-12	383-8332	383-8336
1/32"	1"	1"	6"	GR-16	383-8222	383-8226	GL-16	383-8322	383-8326



Cutting Tools

Style TSA

Square Shank Boring Tools,
For boring to a square shoulder
in 90° boring bars.



Size	Radius	Industry No.	C-2	C-6
			Model No.	Model No.
5/16"	1/64"	TSA5	383-8402	383-8406
3/8"	1/64"	TSA6	383-8412	383-8416
1/2"	1/32"	TSA8	383-8422	383-8426
5/8"	1/32"	TSA10	383-8432	383-8436
3/4"	1/32"	TSA12	383-8442	383-8446

Style TSC

For boring to a square shoulder
in a 30° boring bar, or internal
Chamfering (30°) in a 0° .



Size	Radius	Industry No.	C-2	C-6
			Model No.	Model No.
1/5"	1/64"	TSC5	383-8502	383-8506
3/8"	1/64"	TSC6	383-8512	383-8516
1/2"	1/32"	TSC8	383-8522	383-8526
5/8"	1/32"	TSC10	383-8532	383-8536
3/4"	1/32"	TSC12	383-8542	383-8546

Style TSE

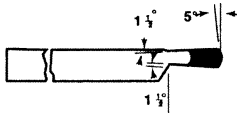
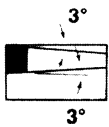
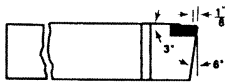
For boring to square shoulder in a
45° boring bar, or boring with a
15° lead angle in a 30° boring bar.



Size	Radius	Industry No.	C-2	C-6
			Model No.	Model No.
5/16"	1/64"	TSE5	383-8602	383-8606
3/8"	1/64"	TSE6	383-8612	383-8616
1/2"	1/32"	TSE8	383-8622	383-8626
5/8"	1/32"	TSE10	383-8632	383-8636
3/4"	1/32"	TSE12	383-8642	383-8646

Styles CTR & CTL:

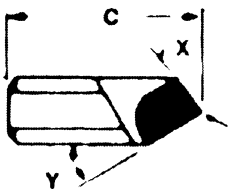
Cut-off-designed for cut-off or grooving solid bars and tube parting.



Shank Size	Tip Dia.	Overall Length	Industry No.	Style CTR		Industry No.	Style CTL	
				C-2 Model No.	C-6 Model No.		C-2 Model No.	C-6 Model No.
1/2 x 1	1/8	5	CTR-111	383-4602	383-4606	CTL-111	383-4702	383-4706
1/2 x 1	3/16	5	CTR-122	383-4612	383-4616	CTL-122	383-4712	383-4716
1/2 x 1	5/16	5	CTR-120	383-4622	383-4626	CTL-120	383-4722	383-4726
1/2 x 1	1/4	5	CTR-121	383-4632	383-4636	CTL-121	383-4732	383-4736
5/8 x 1-1/4	3/8	5	CTR-130	383-4642	383-4646	CTL-130	383-4742	383-4746
3/4 x 1-1/2	3/8	6	CTR-140	383-4652	383-4656	CTL-140	383-4752	383-4756

ROUND BORING TOOLS

Round Boring Tools. For boring to a square shoulder in 45° boring bars or with 15° lead angle in 30° boring bars. For recessing and internal chamfering in 90° boring bar.



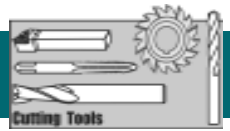
Style TRC & TRE

Specify Type

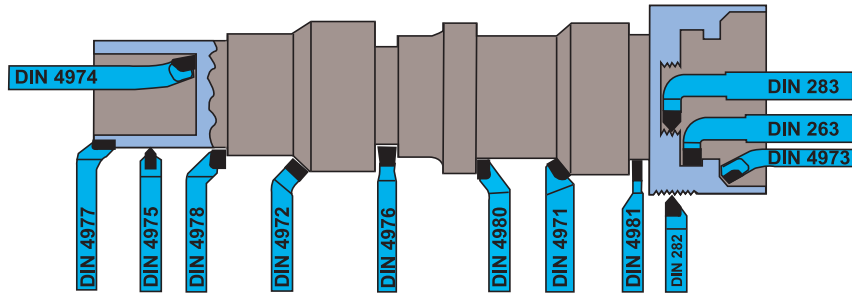
Type	Description
TRC	For Boring to Square Shoulder in 30° Bars
TRE	For Boring to a Square Shoulder in 45° Bars or with 15° Lead in 30° Bars.



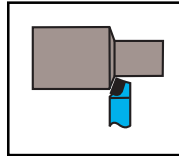
Size	Radius	Dia.	Length	Industry Number	Style TRC		Industry Number	Style TRE	
					C-2 Model No.	C-6 Model No.		C-2 Model No.	C-6 Model No.
0.3120	1/64"	5/16	1-1/2	TRC 5	383-8702	383-8706	TRE 5	383-8802	383-8806
0.3745	1/64	3/8	1-3/4	TRC 6	383-8712	383-8716	TRE 6	383-8812	383-8816
0.4995	1/64	1/2	2-1/2	TRC 8	383-8722	383-8726	TRE 8	383-8822	383-8826



DIN & ISO CARBIDE TIPPED TOOL BITS

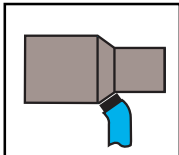


Carbide Tipped Tool Bits, DIN4971-ISO1



Size	K10/20 right Model No.	K10/20 left Model No.	P25/30 right Model No.	P25/30 left Model No.
8x8x80mm	4971-0000	4971-1000	4971-2000	4971-3000
10x10x90mm	4971-0001	4971-1001	4971-2001	4971-3001
12x12x100mm	4971-0003	4971-1003	4971-2003	4971-3003
16x16x110mm	4971-0005	4971-1005	4971-2005	4971-3005
20x20x125mm	4971-0007	4971-1007	4971-2007	4971-3007
25x25x140mm	4971-0009	4971-1009	4971-2009	4971-3009
32x32x170mm	4971-0011	4971-1011	4971-2011	4971-3011

Carbide Tipped Tool Bits, DIN4972-ISO2

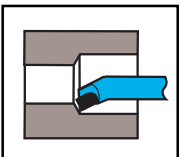


Size	K10/20 right Model No.	K10/20 left Model No.	P25/30 right Model No.	P25/30 left Model No.
8x8x80mm	4972-0000	4972-1000	4972-2000	4972-3000
10x10x90mm	4972-0001	4972-1001	4972-2001	4972-3001
12x12x100mm	4972-0003	4972-1003	4972-2003	4972-3003
16x16x110mm	4972-0005	4972-1005	4972-2005	4972-3005
20x20x125mm	4972-0007	4972-1007	4972-2007	4972-3007
25x25x140mm	4972-0009	4972-1009	4972-2009	4972-3009
32x32x170mm	4972-0011	4972-1011	4972-2011	4972-3011

Carbide Tipped Tool Bits, DIN4973-ISO8



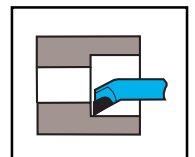
Size	K10/20 Model No.	P25/30 Model No.
8x8x14x125mm	4973-0001	4973-2001
10x10x18x150mm	4973-0003	4973-2003
12x12x21x180mm	4973-0005	4973-2005
16x16x27x210mm	4973-0007	4973-2007
20x20x34x250mm	4973-0009	4973-2009
25x25x43x300mm	4973-0011	4973-2011
32x32x52x355mm	4973-0013	4973-2013



Carbide Tipped Tool Bits DIN4974-ISO9



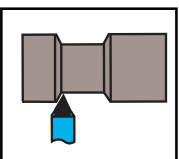
Size	K10/20 Model No.	P25/30 Model No.
8x8x14x125mm	4974-0001	4974-2001
10x10x18x150mm	4974-0003	4974-2003
12x12x21x180mm	4974-0005	4974-2005
16x16x27x210mm	4974-0007	4974-2007
20x20x34x250mm	4974-0009	4974-2009
25x25x43x300mm	4974-0011	4974-2011
32x32x52x355mm	4974-0013	4974-2013



Carbide Tipped Tool Bits. DIN 4975-ISO10



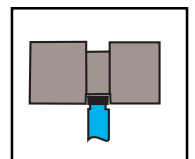
Size	K10/20 Model No.	P25/30 Model No.
16x10x110mm	4975-0001	4975-2001
20x12x125mm	4975-0003	4975-2003
25x16x140mm	4975-0005	4975-2005
32x20x170mm	4975-0007	4975-2007

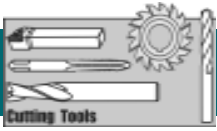


Carbide Tipped Tool Bits. DIN 4976-ISO4



Size	K10/20 Model No.	P25/30 Model No.
8x8x80mm	4976-0000	4976-2000
10x10x90mm	4976-0001	4976-2001
12x12x100mm	4976-0003	4976-2003
16x16x110mm	4976-0005	4976-2005
20x20x125mm	4976-0007	4976-2007
25x25x140mm	4976-0009	4976-2009
32x32x170mm	4976-0011	4976-2011

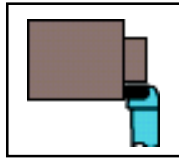




Cutting Tools

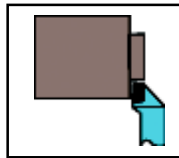
DIN & ISO CARBIDE TIPPED TOOL BITS

Carbide Tipped Tool Bits. DIN 4977-ISO5



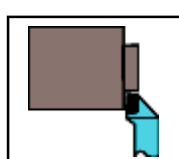
Size	K10/20 right Model No.	K10/20 left Model No.	P25/30 right Model No.	P25/30 left Model No.
16x16x110mm	4977-0001	4977-1001	4977-2001	4977-3001
20x20x125mm	4977-0003	4977-1003	4977-2003	4977-3003
25x25x140mm	4977-0005	4977-1005	4977-2005	4977-3005
32x32x170mm	4977-0007	4977-1007	4977-2007	4977-3007

Carbide Tipped Tool Bits. DIN 4978-ISO3



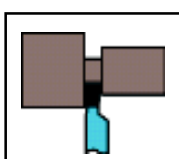
Size	K10/20 right Model No.	K10/20 left Model No.	P25/30 right Model No.	P25/30 left Model No.
16x10x110mm	4978-0001	4978-1001	4978-2001	4978-3001
20x12x125mm	4978-0003	4978-1003	4978-2003	4978-3003
25x16x140mm	4978-0005	4978-1005	4978-2005	4978-3005
32x20x170mm	4978-0007	4978-1007	4978-2007	4978-3007

Carbide Tipped Tool Bits. DIN 4980-ISO6



Size	K10/20 right Model No.	K10/20 left Model No.	P25/30 right Model No.	P25/30 left Model No.
10x10x90mm	4980-0001	4980-1001	4980-2001	4980-3001
12x12x100mm	4980-0003	4980-1003	4980-2003	4980-3003
16x16x110mm	4980-0005	4980-1005	4980-2005	4980-3005
20x20x125mm	4980-0007	4980-1007	4980-2007	4980-3007
25x25x140mm	4980-0009	4980-1009	4980-2009	4980-3009
32x32x170mm	4980-0011	4980-1011	4980-2011	4980-3011

Carbide Tipped Tool Bits. DIN 4981-ISO7

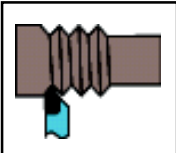


Size	K10/20 right Model No.	K10/20 left Model No.	P25/30 right Model No.	P25/30 left Model No.
12x8x100mm	4981-0001	4981-1001	4981-2001	4981-3001
16x10x110mm	4981-0003	4981-1003	4981-2003	4981-3003
20x12x125mm	4981-0005	4981-1005	4981-2005	4981-3005
25x16x140mm	4981-0007	4981-1007	4981-2007	4981-3007
32x20x170mm	4981-0009	4981-1009	4981-2009	4981-3009

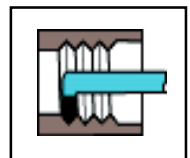
Carbide Tipped Tool Bits. DIN 282-60 Degree



Size	K10/20 Model No.	P25/30 Model No.
10x10x100mm	2820-0001	2820-2001
12x12x110mm	2820-0003	2820-2003
16x16x125mm	2820-0005	2820-2005
20x20x140mm	2820-0007	2820-2007
25x25x160mm	2820-0009	2820-2009
32x32x180mm	2820-0011	2820-2011

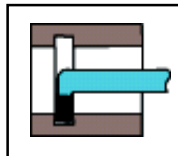


Carbide Tipped Tool Bits. DIN 283-60 Degree



Size	K10/20 Model No.	P25/30 Model No.
10x10x24x140mm	2830-0001	2830-2001
12x12x30x160mm	2830-0003	2830-2003
16x16x36x180mm	2830-0005	2830-2005
20x20x45x210mm	2830-0007	2830-2007
25x25x55x250mm	2830-0009	2830-2009
32x32x70x300mm	2830-0011	2830-2011

Carbide Tipped Tool Bits. DIN 263



Size	K10/20 Model No.	P25/30 Model No.
10x10x25x140mm	2630-0001	2630-2001
12x12x30x160mm	2630-0003	2630-2003
16x16x40x180mm	2630-0005	2630-2005
20x20x50x210mm	2630-0007	2630-2007
25x25x60x250mm	2630-0009	2630-2009
32x32x85x300mm	2630-0011	2630-2011

Carbide Tipped Turning Tool Set



Pieces/Set	Shank	Model No.
11	10mm	387-1810
8	12mm	387-1812
8	16mm	387-1816
8	20mm	387-1820

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