eBore™

2020

WIDIA™

ALL-STAR

THE ALL-STAR PROGRAM PROVIDES PROVEN SOLUTIONS THAT ARE EASY TO FIND AND ALWAYS AVAILABLE.

All-Star includes products from our most popular platforms, grades, and sizes grouped into our program and guaranteed to be in stock with same-day shipping on orders placed before 6pm EST.

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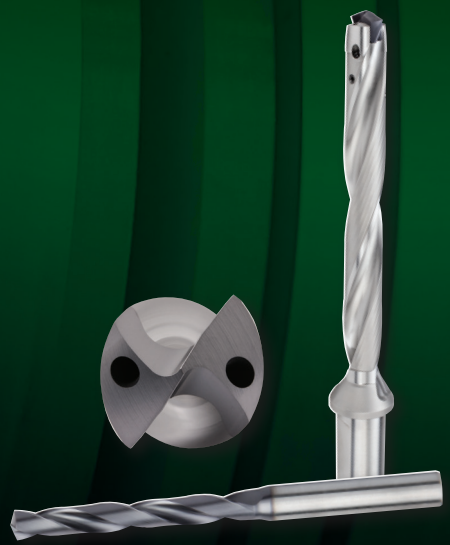
Turning

Tapping

Holemaking



TO SEE ALL PRODUCT LINES, VISIT OUR DIGITAL RESOURCES

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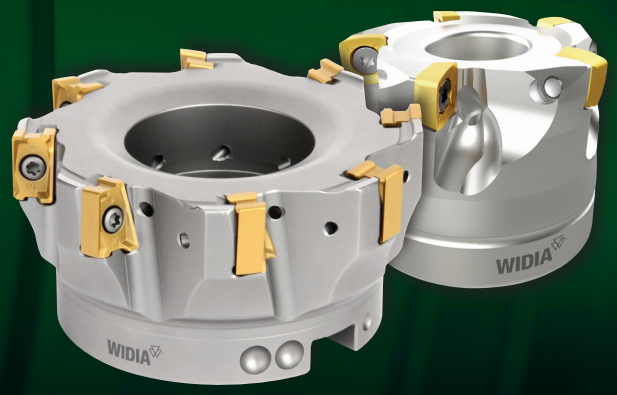
Proven Solutions

Easy to Find

Always Available

Indexable Milling



Solid End Milling

WIDIA™

widia.com

eBore™

Digital Fine Boring System

One digital display for
all fine boring tools.

Materials

P M K N S H

Applications

- Fine Boring: Through Hole
- Fine Boring: Through & Cross Holes
- Fine Boring: Blind Hole
- Fine Boring: Blind & Cross Holes

widia.com/eBore

The eBore boring system covers a diameter range from 0.236–40.157" (6–1020mm) by providing state-of-the-art fine boring tooling solutions that have one thing in common: all of them are digital ready.

The digital eBore display provides the option to readjust the tool on the spindle, reducing setup time and idle time.

One for all — One eBore digital display serving all eBore fine boring tools.

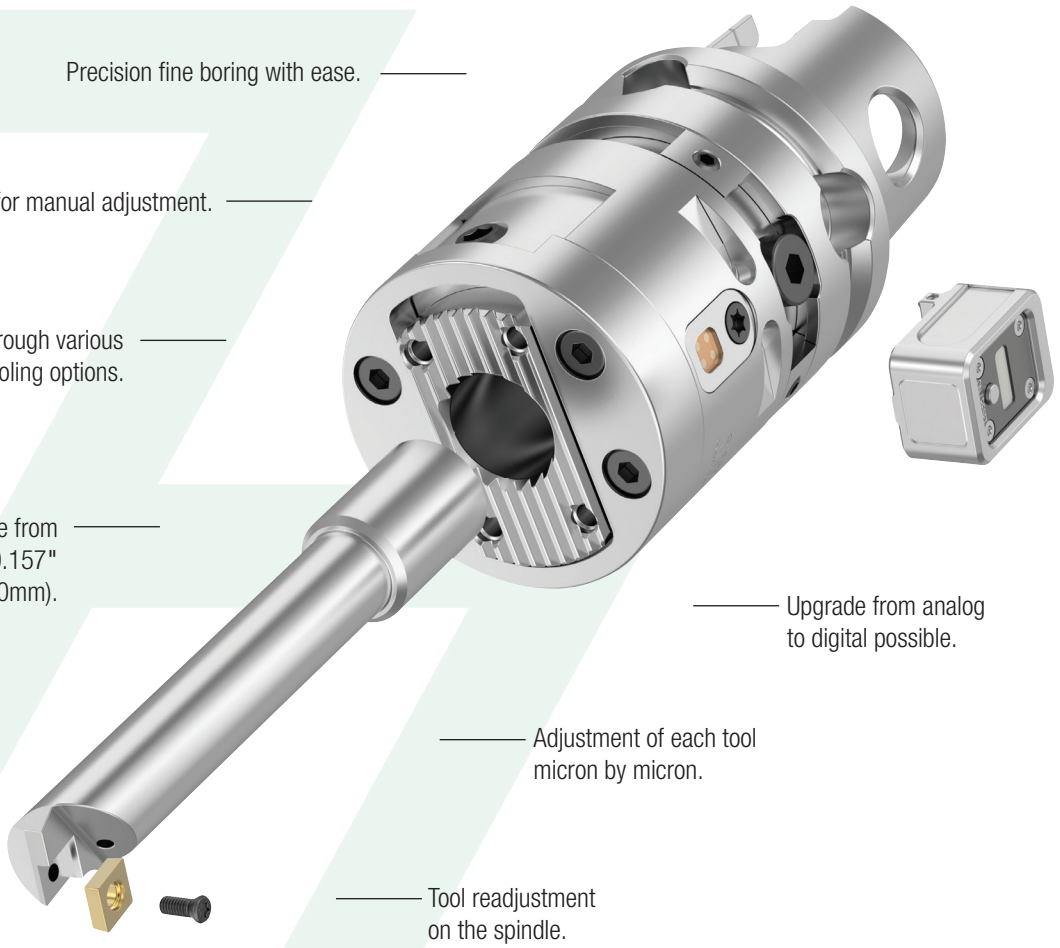
Micron by micron, the precision adjustment of each tool is just as easy as 1, 2, 3.

Precision fine boring with ease.

Dial for manual adjustment.

Versatility through various fine boring tooling options.

Diameter range from 0.236–40.157" (6–1020mm).

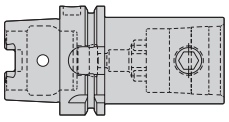


Upgrade from analog to digital possible.

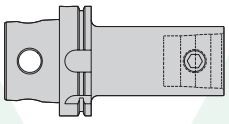
Adjustment of each tool micron by micron.

Tool readjustment on the spindle.

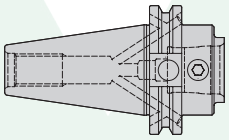
Adapters



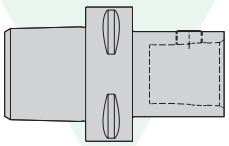
HSK to KM™



KM4X™ to KM

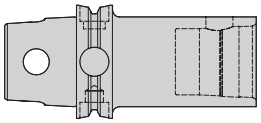


BT, CV, DV to KM

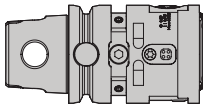


PSC to KM

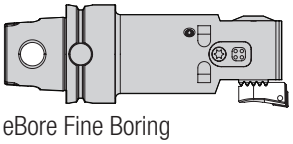
Extension



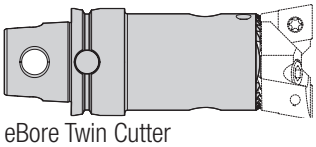
eBore™



eBore Universal

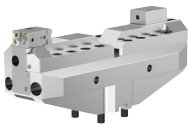


eBore Fine Boring



eBore Twin Cutter

Tool Selection Guide • Fine Boring

				
Series	**eBore™ Universal**	**eBore Fine Boring Tool**	**eBore Bridge Finishing Tools**	**eBore Twin Cutters**
Page	44	49	50	53
Workpiece material				
Primary	P M K N S	P M K N S	P M K N S	P M K N S
Secondary	H	H	H	
Boring range [BR1]	6–152mm (0.236–5.984")	20–205mm (0.787–8.071")	200–1020mm (7.874–40.157")	19,5–1020mm (7.677–40.157")
Accuracy	IT6			IT9
Cylindricity	5 µm (0.0002")			10 µm (0.0004")
Position	5–10 µm (0.0002–0.0004")			>20 µm (>0.0008")
Surface roughness (Ra) P	0,8–2,0 µm (32–80 µ-in)			1,0–5,0 µm (40–200 µ-in)
Surface roughness (Ra) M	0,8–2,0 µm (32–80 µ-in)			1,0–5,0 µm (40–200 µ-in)
Surface roughness (Ra) K	0,8–2,0 µm (32–80 µ-in)			1,0–5,0 µm (40–200 µ-in)
Surface roughness (Ra) N	0,8–2,0 µm (32–80 µ-in)			1,0–2,0 µm (40–80 µ-in)
Surface roughness (Ra) S	0,8–2,0 µm (32–80 µ-in)			1,0–5,0 µm (40–200 µ-in)
Surface roughness (Ra) H	< 1,2 µm (< 48 µ-in)			
Coolant				
Main Operations				

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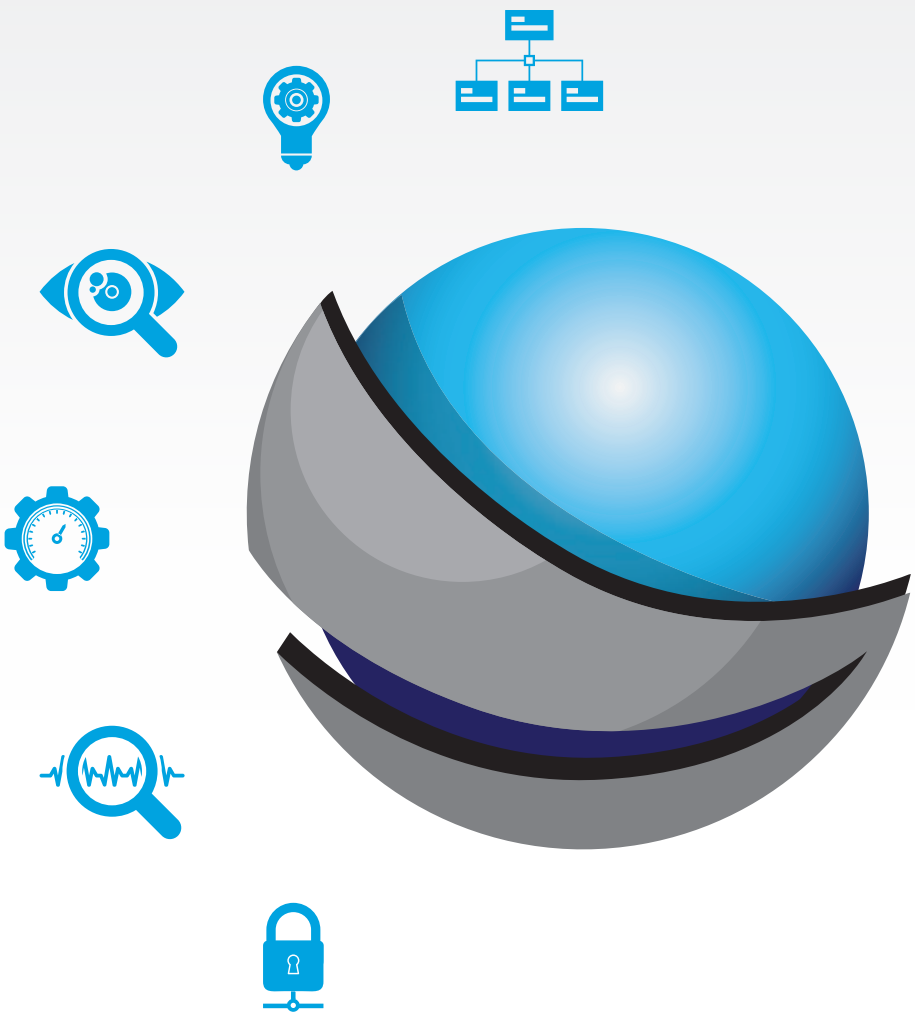
The NOVO™ Application Provides the Digital Power

To Get Information Quicker Than Ever Before.



Export Compatibility to Mastercam®

Select tools, save into “job lists”.

Interactive feed & speed calculators.

Find inventory availability.

Download 2-D and 3-D models.

Easy interface with many CAM and tool management data systems.

NOVO™

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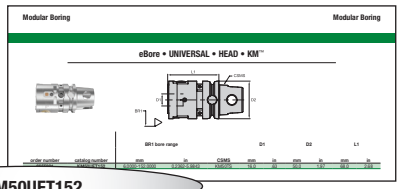
eBore™ • CATALOG NUMBERING SYSTEM

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

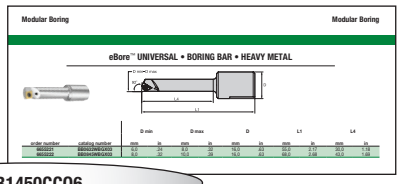
▼ Head



KM50UFT152

KM50	UFT	152
Back End	Boring System	Boring Range
KM™	**UTF** = UNIVERSAL Fine Boring Tool **BT** = Fine Boring Tool **BDG** = Bridge Tool **TC** = Twin Cutter	Diameter (min. or max.)

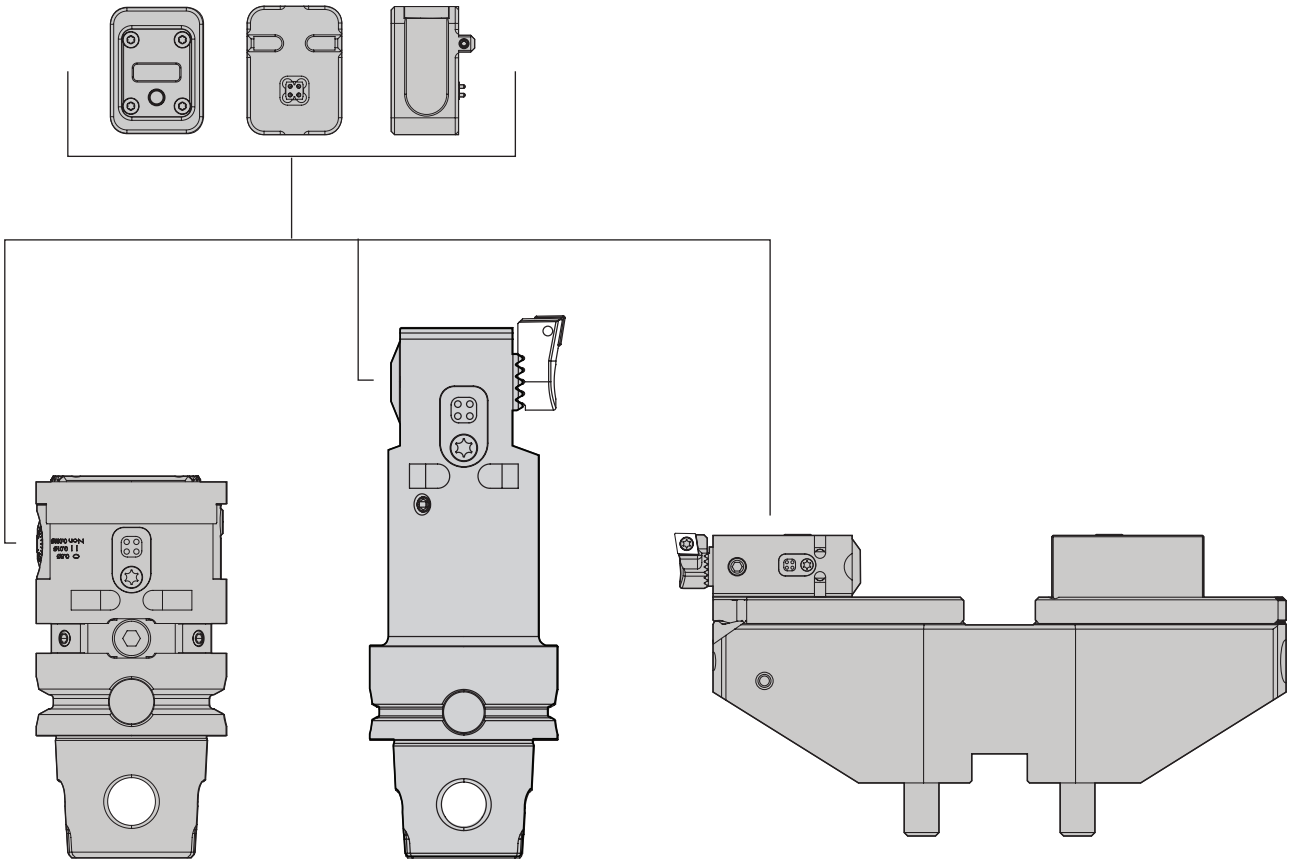
▼ Boring Bar and Insert Holder



BB1450CC06

BB	14	50	CC06
Tool Type	Diameter	Length	Insert Style and Size
BB = Boring bar **IH** = Insert holder	Ø14mm	50mm	**CC** = Rhomboid 60º, 7º clearance angle **06** = IC 6mm **09** = IC 9mm **12** = IC 12mm

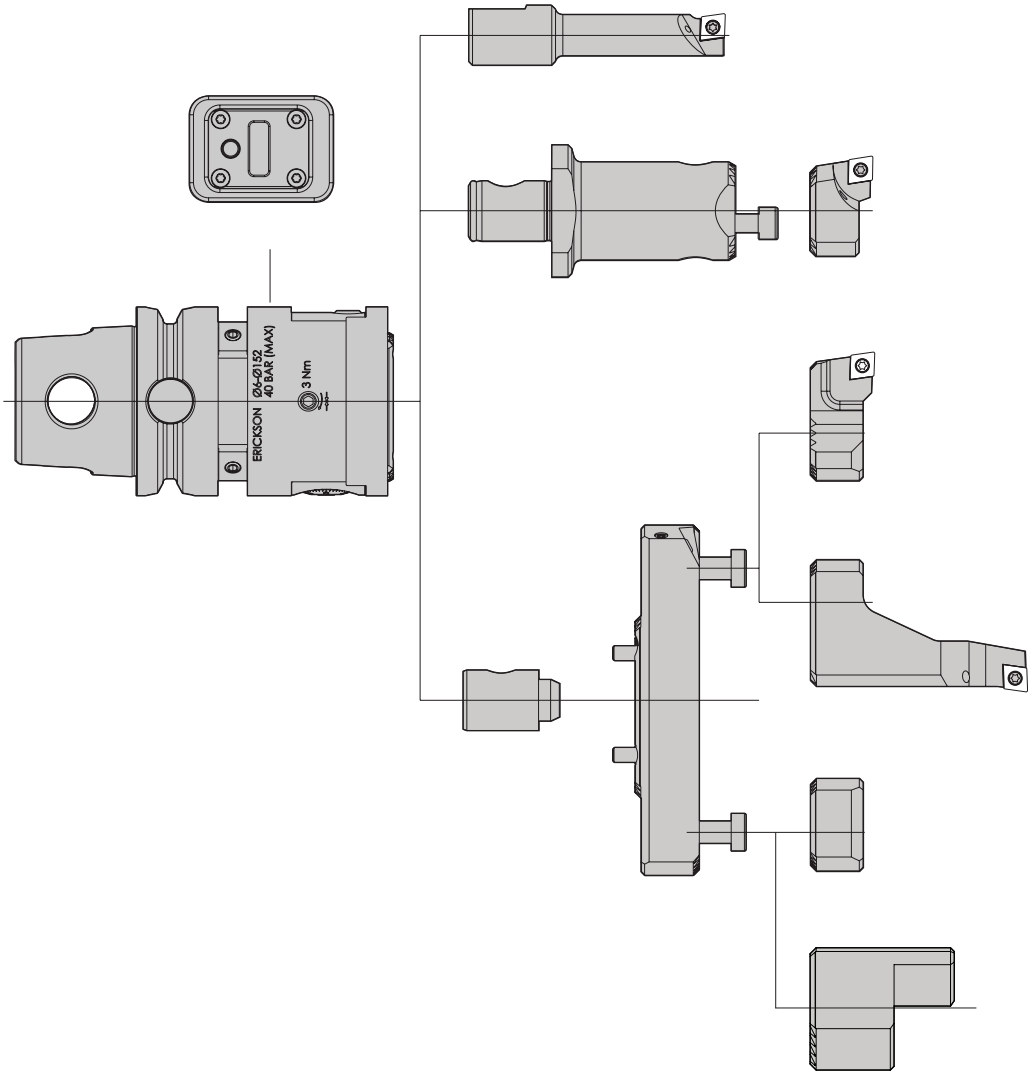
eBore™ Digital Display Overview



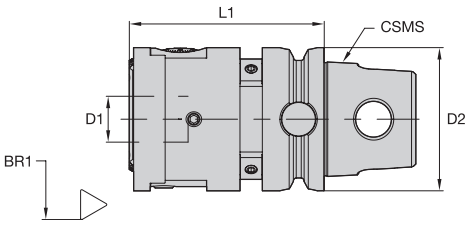
eBore DIGITAL DISPLAY

order number	catalog number
6655307	FBDD0001IN
6655306	FBDD0001M

eBore™ UNIVERSAL OVERVIEW

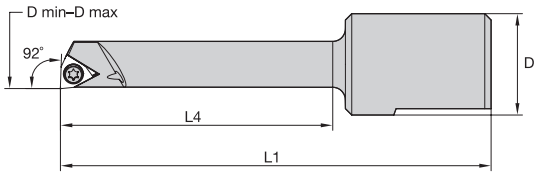


eBore • UNIVERSAL • HEAD • KM™



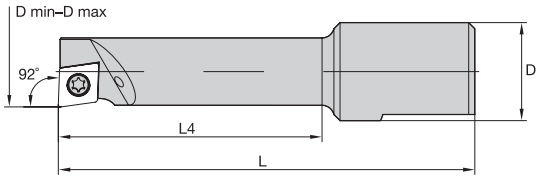
		BR1 bore range			D1		D2		L1	
order number	catalog number	mm	in	CSMS	mm	in	mm	in	mm	in
6655201	KM50UFT152	6,0000-152,0000	0.2362-5.9843	KM50TS	16,0	.63	50,0	1.97	68,0	2.68

eBore™ UNIVERSAL • BORING BAR • HEAVY METAL



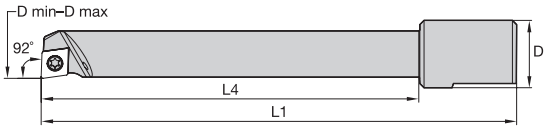
		D min		D max		D		L1		L4	
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in
6655221	BB0632WBGX02	6,0	.24	8,0	.32	16,0	.63	55,0	2.17	30,0	1.18
6655222	BB0845WBGX02	8,0	.32	10,0	.39	16,0	.63	68,0	2.68	43,0	1.69

eBore UNIVERSAL • BORING BAR • STEEL



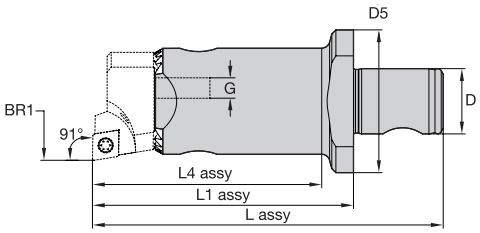
		D min		D max		D		L		L4	
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in
6655202	BB0622WBGX02	6,0	.24	8,0	.32	16,0	.63	45,0	1.77	20,0	.79
6655203	BB0830WBGX02	8,0	.32	10,0	.39	16,0	.63	53,0	2.09	28,0	1.10
6655204	BB1025CC06	10,0	.39	12,0	.47	16,0	.63	48,0	1.89	23,0	.91
6655205	BB1035CC06	10,0	.39	12,0	.47	16,0	.63	58,0	2.28	33,0	1.30
6655206	BB1230CC06	12,0	.47	14,0	.55	16,0	.63	53,0	2.09	28,0	1.10
6655207	BB1245CC06	12,0	.47	14,0	.55	16,0	.63	68,0	2.68	43,0	1.69
6655208	BB1435CC06	14,0	.55	16,0	.63	16,0	.63	58,0	2.28	34,0	1.34
6655209	BB1450CC06	14,0	.55	16,0	.63	16,0	.63	73,0	2.87	48,4	1.91
6655210	BB1560CC06	15,0	.59	20,0	.79	16,0	.63	83,0	3.27	57,8	2.28
6655211	BB1640CC06	16,0	.63	20,0	.79	16,0	.63	63,0	2.48	40,0	1.57
6655212	BB2070CC06	20,0	.79	25,0	.87	16,0	.63	93,0	3.66	70,0	2.76
6655213	BB2570CC06	25,0	.98	30,0	1.18	16,0	.63	93,0	3.66	70,0	2.76

eBore UNIVERSAL • BORING BAR • CARBIDE



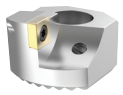
		D min		D max		D		L1		L4	
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in
6655214	BB1055CC06	10,0	.39	12,0	.47	16,0	.63	78,0	3.07	55,0	2.17
6655215	BB1075CC06	10,0	.39	12,0	.47	16,0	.63	98,0	3.86	75,0	2.95
6655216	BB1290CC06	12,0	.47	14,0	.55	16,0	.63	113,0	4.45	90,0	3.54
6655217	BB1475CC06	14,0	.55	16,0	.63	16,0	.63	98,0	3.86	75,0	2.95
6655218	BB14100CC06	14,0	.55	16,0	.63	16,0	.63	123,0	4.84	100,0	3.94
6655219	BB1690CC06	16,0	.63	20,0	.79	16,0	.63	113,0	4.45	90,0	3.54
6655220	BB16120CC06	16,0	.63	20,0	.79	16,0	.63	143,0	5.63	120,0	4.72

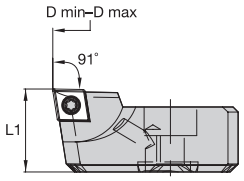
eBore™ UNIVERSAL • EXTENSION



		BR1		D		D5		L1 assy		L2 assy		
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in	G
6655223	UFTE64	29,0000	1.1417	16,0	.63	35,0	1.38	64,0	2.52	56,2	2.21	M5X20
6655224	UFTE100	29,0000-53,0000	1.1417-2.0866	16,0	.63	35,0	1.38	100,0	3.94	92,2	3.63	M5X20

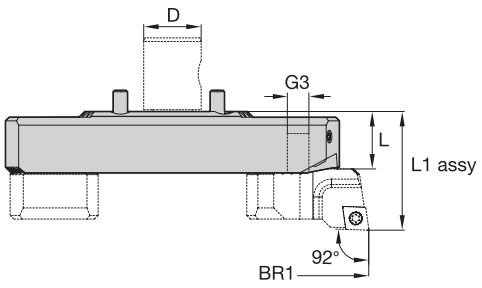
eBore UNIVERSAL • INSERT HOLDER • CC06





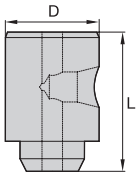
		D min		D max		L1	
order number	catalog number	mm	in	mm	in	mm	in
6655226	IH02916CC06	29,0	1.14	41,0	1.61	16,0	.63
6655227	IH04016CC06	40,0	1.57	53,0	2.09	16,0	.63
6655228	IH05216CC06	52,0	2.05	77,0	3.03	16,5	.65
6655229	IH07616CC06	76,0	2.99	102,0	4.02	16,5	.65

eBore UNIVERSAL • BRIDGE



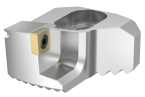
		BR1		D		L		L1 assy		
order number	catalog number	mm	in	mm	in	mm	in	mm	in	G3
6655233	UFTB06816	68,0000	2.6772	16,0	.63	17,1	.67	32,5	1.28	M4X0.7
6655234	UFTB09616	96,0000	3.7795	16,0	.63	17,1	.67	32,5	1.28	M4X0.7
6655235	UFTB12416	124,0000	4.8819	16,0	.63	17,1	.67	32,5	1.28	M4X0.7

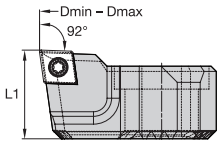
eBore™ UNIVERSAL • COOLANT CONNECTOR



		D		L	
order number	catalog number	mm	in	mm	in
6655238	CBUFTB	16,0	.63	25,5	1.00

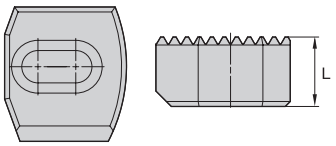
eBore UNIVERSAL • INSERT HOLDER I.D. • CC06





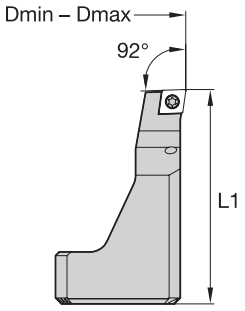
		D min		D max		L1	
order number	catalog number	mm	in	mm	in	mm	in
6655236	IHUFTBCC06	68,0	2.68	152,0	5.98	16,5	.65

eBore UNIVERSAL • COUNTERWEIGHT I.D.



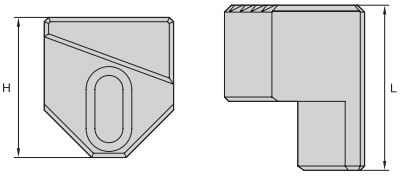
		L	
order number	catalog number	mm	in
6655237	CWUFTB	14,0	.55

eBore™ UNIVERSAL • INSERT HOLDER O.D. • CC06



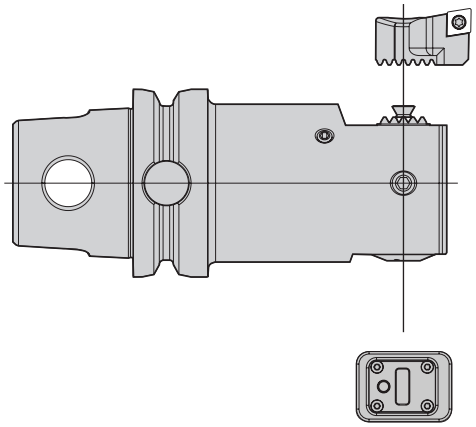
		D min		D max		L1	
order number	catalog number	mm	in	mm	in	mm	in
6655308	IHUFTODCC06	2,0	.08	58,0	2.28	57,0	2.24

eBore UNIVERSAL • COUNTERWEIGHT O.D.

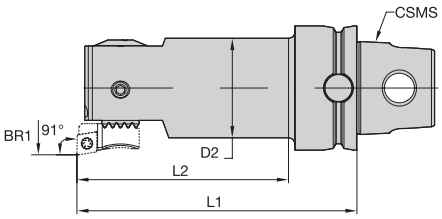


		L		H	
order number	catalog number	mm	in	mm	in
6655309	CWUFTBOD	38,3	1.51	32,5	1.28

eBore™ FINE BORING OVERVIEW

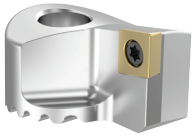


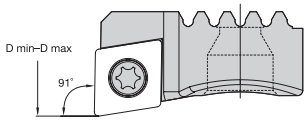
eBore FINE BORING • CUTTING UNIT • KM™



order number	catalog number	BR1 mm	BR1 in	CSMS	D2 mm	D2 in	L1 assy mm	L1 assy in	L2 assy mm	L2 assy in
6655290	**KM32BT024532**	24,5000-29,5000	0.9646-1.1614	KM32TS	23,0	.91	90,0	3.54	78,0	3.07
6655292	**KM32BT02942**	29,0000-44,0000	1.1417-1.7323	KM32TS	27,0	1.06	100,0	3.94	88,0	3.46
6655294	**KM40BT04352**	43,0000-54,0000	1.6929-2.1260	KM40TS	32,0	1.26	90,0	3.54	68,0	2.68
6655295	**KM50BT05357**	53,0000-66,0000	2.0866-2.5984	KM50TS	42,0	1.65	90,0	3.54	68,0	3.54
6655297	**KM50BT06557**	65,0000-83,0000	2.5591-3.2677	KM50TS	50,0	1.97	90,0	3.54	90,0	3.54
6655298	**KM63BT08272**	82,0000-103,0000	3.2283-4.0551	KM63TS	63,0	2.48	100,0	3.94	100,0	3.94
6655299	**KM80BT10072**	100,0000-130,0000	3.9370-5.1181	KM80TS	80,0	3.15	120,0	4.74	120,0	4.74
6655300	**KM80BT12572**	125,0000-167,5000	4.9213-6.9545	KM80TS	—	—	120,0	4.72	120,0	4.72
6655301	**KM80BT162572**	162,5000-205,0000	6.3976-8.0709	KM80TS	—	—	150,0	5.91	150,0	5.91

eBore FINE FINISHING • INSERT HOLDER

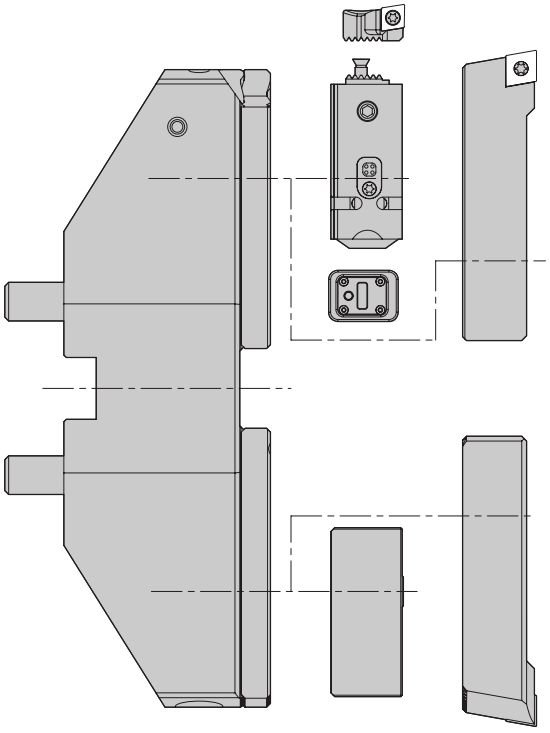




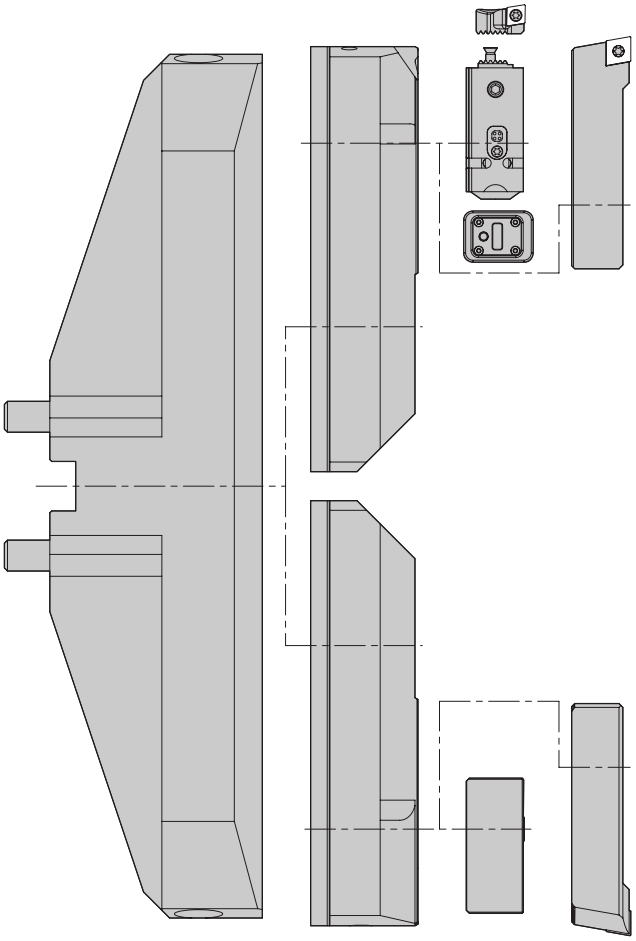
order number	catalog number	D min mm	D min in	D max mm	D max in
6655291	**IHBT024CC06**	24,5	.96	29,5	1.16
6655293	**IHBT036CC06**	29,0	1.14	42,0	1.65
6655296	**IHBT053CC06**	53,0	2.09	205,0	8.07

eBore™ BRIDGE TOOLS OVERVIEW

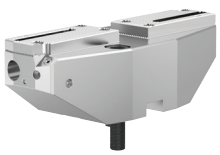
eBore — Bridge S (Small)

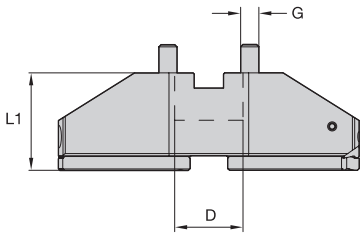


eBore — Bridge L (Large)



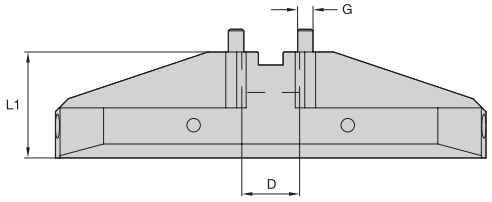
eBore • BRIDGE S





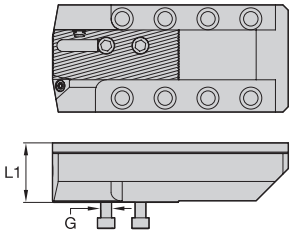
		BR1		D		L1		L1 assy			
order number	catalog number	mm	in	mm	in	mm	in	mm	in	G	G3
6655282	BDG20060	200,0000-280,0000	7.8740-11.0236	60,0	2.36	85,0	3.35	115,1	4.53	M10X50	M16X2
6655284	BDG27560	275,0000-355,0000	10.8268-13.9764	60,0	2.36	85,0	3.35	115,1	4.53	M10X50	M16X2
6655285	BDG35060	350,0000-430,0000	13.7795-16.9291	60,0	2.36	85,0	3.35	115,1	4.53	M10X50	M16X2
6655286	BDG42560	425,0000-505,0000	16.7323-19.8819	60,0	2.36	85,0	3.35	115,1	4.53	M10X50	M16X2

eBore™ • BRIDGE L



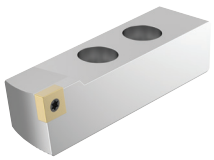
		BR1		D		L1		L1 assy			
order number	catalog number	mm	in	mm	in	mm	in	mm	in	G	G3
6655287	BDG46560	465,0000-745,0000	18.3071-29.3307	60,0	2.36	110,0	4.33	185,1	7.29	M12X55	M16X2
6655289	BDG74060	740,0000-1020,0000	29.1339-40.1575	60,0	2.36	110,0	4.33	185,1	7.29	M12X55	M16X2

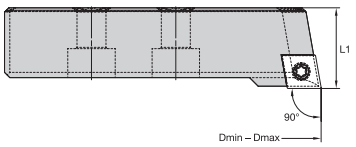
eBore • BRIDGE L • EXTENDER



		L1		
order number	catalog number	mm	in	G
6655288	SBDG46545	45,0	1.77	M10X1,5

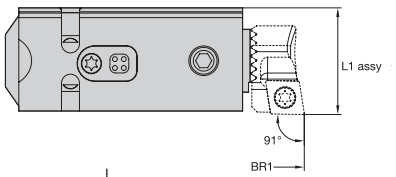
eBore • BRIDGE S/L • INSERT HOLDER • CC12





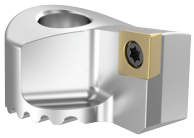
		D min		D max		L1	
order number	catalog number	mm	in	mm	in	mm	in
6655283	IHBDGCC12	200,0	7.87	1020,0	40.16	30,1	1.18

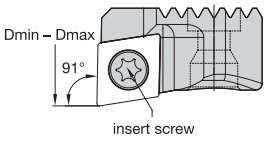
eBore • BRIDGE S/L • SLIDE



		BR1		L1 assy	
order number	catalog number	mm	in	mm	in
6655302	BFBS10012	100,0000-1020,0000	3.9370-40.1575	30,0	1.18

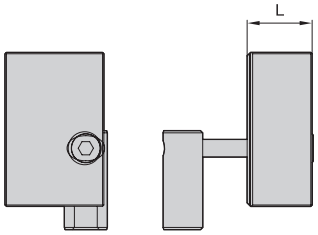
eBore™ • BRIDGE S/L • INSERT HOLDER • CC09





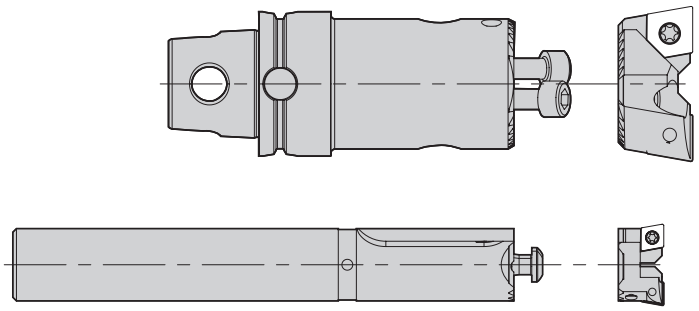
		D min		D max	
order number	catalog number	mm	in	mm	in
6655303	IHBFBSCC09	200,0	7.87	1020,0	40.16

eBore • BRIDGE S/L • SLIDE • COUNTERWEIGHT

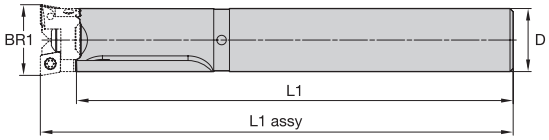


		L	
order number	catalog number	mm	in
6655305	CWBFBS	68,2	2.69

eBore™ TWIN CUTTER OVERVIEW

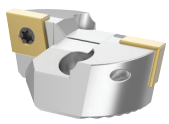


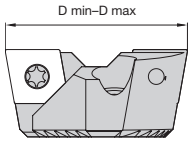
eBore • TWIN CUTTER • STRAIGHT SHANK



		BR1			D		L1		L1 assy	
order number	catalog number	mm	in	CSMS	mm	in	mm	in	mm	in
6655239	SS18TC0195	19,5000-23,0000	0.7677-0.9055	—	18,0	.71	138,0	5.43	150,0	5.91
6655241	SS20TC0225	22,2000	0.8858	—	20,0	.79	138,0	5.43	150,0	5.91
6655243	SS23TC0255	25,5000-30,0000	1.0039-1.1881	—	23,0	.91	148,2	5.83	160,0	6.30

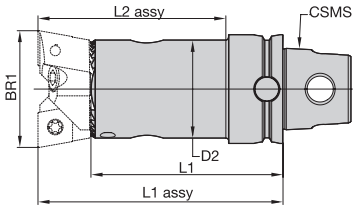
eBore • TWIN CUTTER • STRAIGHT SHANK • INSERT HOLDER





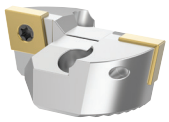
		D min		D max	
order number	catalog number	mm	in	mm	in
6655240	IHTC0195CC06	19,5	.77	23,0	.91
6655242	IHTC0225CC06	22,5	.89	26,0	1.02
6655244	IHTC0255CC06	25,5	1.00	30,0	1.18

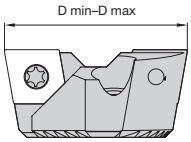
eBore™ • TWIN CUTTER • KM™



		BR1			D2		L1		L1 assy		L2 assy	
order number	catalog number	mm	in	CSMS	mm	in	mm	in	mm	in	mm	in
6655245	KM32TC029	29,0000-37,0000	1.1417-1.4567	KM32TS	25,0	.98	86,0	3.36	100,0	3.94	88,0	3.46
6655247	KM32TC036	36,0000-44,0000	1.4173-1.7323	KM32TS	30,0	1.18	86,0	3.39	100,0	3.94	79,5	3.13
6655249	KM40TC043	43,0000-54,0000	1.6929-2.1260	KM40TS	36,0	1.42	70,0	2.76	90,0	3.54	69,0	2.72
6655271	KM40TC053	53,0000-66,0000	2.0866-2.5984	KM40TS	40,0	1.57	70,0	2.76	90,1	3.55	90,1	3.55
6655273	KM50TC065	65,0000-83,0000	2.5591-3.2677	KM50TS	50,0	1.97	70,0	2.76	90,1	3.55	90,1	3.55
6655275	KM63TC082	82,0000-103,0000	3.2283-4.0551	KM63TS	63,0	2.48	70,0	2.76	100,1	3.94	100,1	3.94
6655277	KM80TC100	100,0000-155,0000	3.9370-6.1024	KM80TS	80,0	3.15	90,0	3.54	120,1	4.73	120,1	4.73
6655280	KM80TC150	150,0000-205,0000	5.9055-8.0709	KM80TS	125,0	4.92	120,0	4.72	150,1	5.91	150,1	5.91

eBore • TWIN CUTTER • KM • INSERT HOLDER





		D min		D max	
order number	catalog number	mm	in	mm	in
6655246	IHTC029CC09	29,0	1.14	37,0	1.46
6655248	IHTC036CC09	36,0	1.42	44,0	1.73
6655250	IHTC043CC12	43,0	1.69	54,0	2.13
6655272	IHTC053CC12	53,0	2.09	66,0	2.60
6655274	IHTC065CC12	65,0	2.56	83,0	3.27
6655276	IHTC082CC12	82,0	3.23	103,0	4.06
6655278	IHTC100CC12	100,0	3.94	130,0	5.12
6655279	IHTC125CC12	125,0	4.92	155,0	6.10
6655281	IHTC150CC12	150,0	5.91	205,0	8.07

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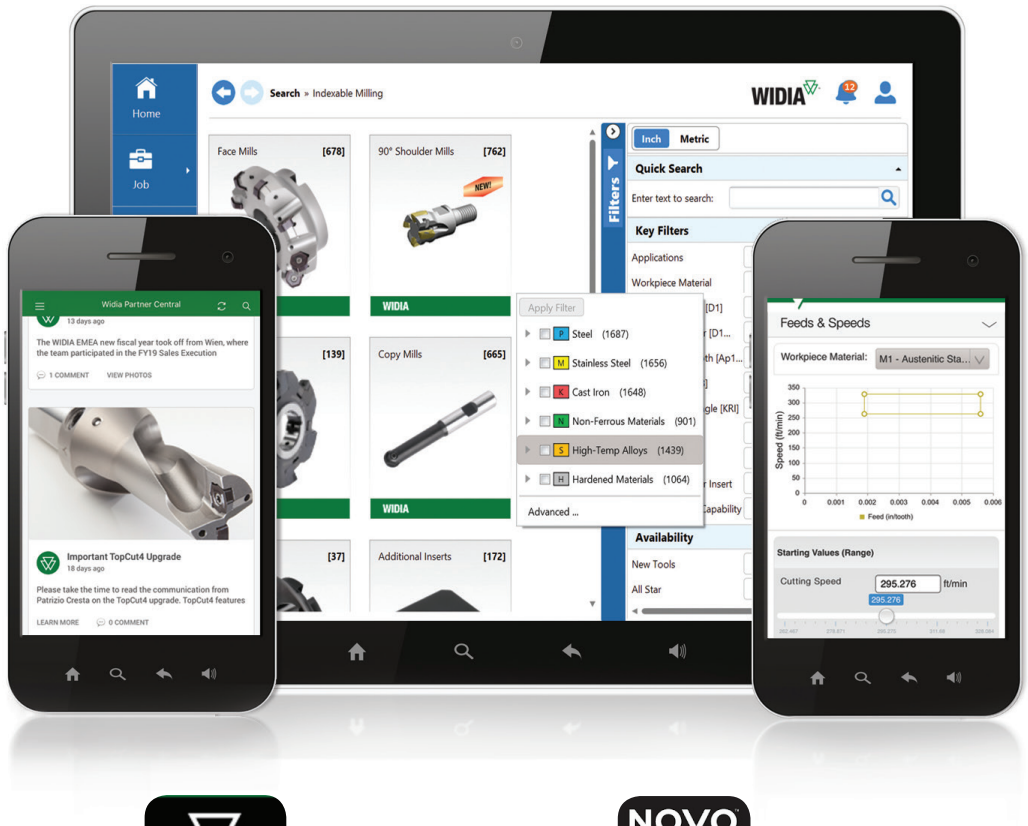

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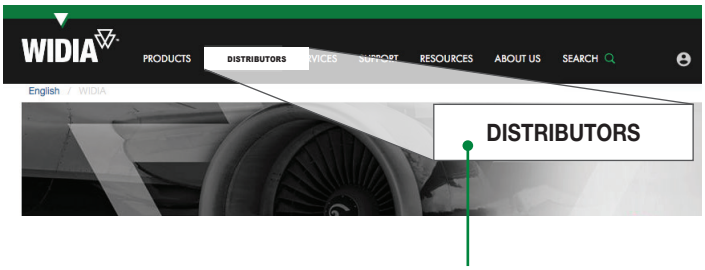

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IMPORTANT SAFETY INSTRUCTIONS: READ BEFORE USING THE TOOLS IN THIS CATALOG

METALCUTTING SAFETY

Projectile and Fragmentation Hazards

Modern metalcutting operations involve high spindle and cutter speeds and high temperatures and cutting forces. Hot metal chips may fly off the workpiece during metalcutting. Although cutting tools are designed and manufactured to withstand high cutting forces and temperatures, they can sometimes fragment, particularly if they are subjected to over-stress, severe impact, or other abuse.

To avoid injury:

- Always wear appropriate personal protective equipment, including safety goggles, when operating metalcutting machines or working nearby.
- Always make sure all machine guards are in place.

Breathing and Skin Contact Hazards

Grinding carbide or other advanced cutting tool materials produces dust or mist containing metallic particles. Breathing this dust or mist — especially over an extended period — can cause temporary or permanent lung disease or make existing medical conditions worse. Contact with this dust or mist can irritate eyes, skin, and mucous membranes and may make existing skin conditions worse.

To avoid injury:

- Always wear breathing protection and safety goggles when grinding.
- Provide ventilation control and collect and properly dispose of dust, mist, or sludge from grinding.
- Avoid skin contact with dust or mist.

For more information, read the applicable Material Safety Data Sheet provided by WIDIA and consult General Industry Safety and Health Regulations, Part 1910, Title 29 of the Code of Federal Regulations.

These safety instructions are general guidelines. Many variables affect machining operations. It is impossible to cover every specific situation. The technical information included in this catalog and recommendations on machining practices may not apply to your particular operation.

For more information, consult the WIDIA Metalcutting Safety booklet, available free from WIDIA at +1 724 539 5747 or fax +1 724 539 5439. For specific product safety and environmental questions, contact our Corporate Environmental Health and Safety Office at +1 724 539 5066 or fax +1 724 539 5372.

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