



eBoreTM
2020



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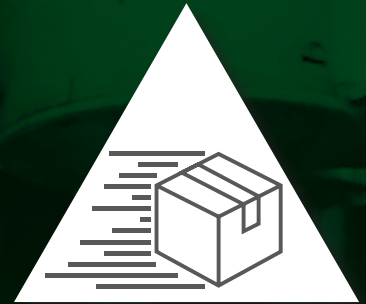
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Proven Solutions

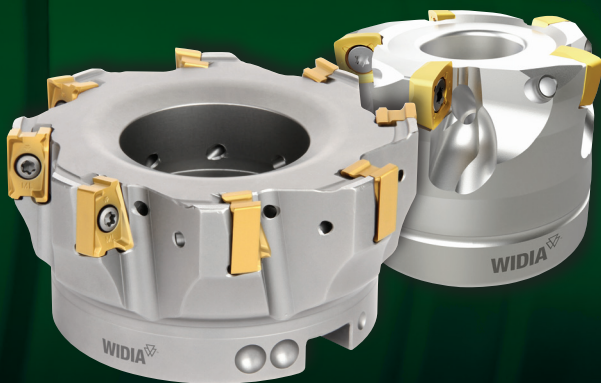


Easy to Find



Always Available

Indexable Milling



Solid End Milling



HOLEMAKING

eBore™

Digital Fine Boring System

Materials

P M K N S H

Applications



Fine Boring:
Through Hole



Fine Boring:
Blind Hole



Fine Boring:
Through & Cross Holes



Fine Boring:
Blind & Cross Holes



One digital display for
all fine boring tools.

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.

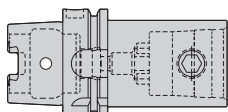
Diameter range from
0.236–40.157"
(6–1020mm).

Upgrade from analog
to digital possible.

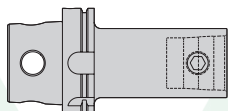
Adjustment of each tool
micron by micron.

Tool readjustment
on the spindle.

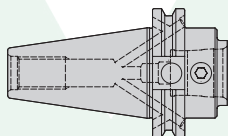
Adapters



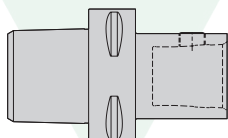
HSK to KM™



KM4X™ to KM

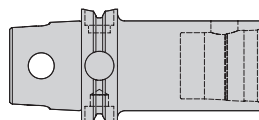


BT, CV, DV to KM

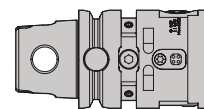


PSC to KM

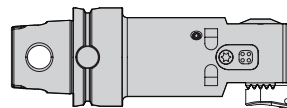
Extension



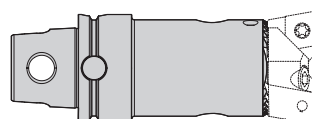
eBore™



eBore Universal



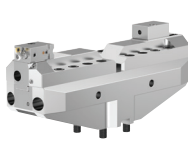























eBore Fine Boring



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)  | 0,8–2,0 µm (32–80 µ-in) | | | 1,0–5,0 µm (40–200 µ-in) |
| Surface roughness (Ra)  | 0,8–2,0 µm (32–80 µ-in) | | | 1,0–5,0 µm (40–200 µ-in) |
| Surface roughness (Ra)  | 0,8–2,0 µm (32–80 µ-in) | | | 1,0–5,0 µm (40–200 µ-in) |
| Surface roughness (Ra)  | 0,8–2,0 µm (32–80 µ-in) | | | 1,0–2,0 µm (40–80 µ-in) |
| Surface roughness (Ra)  | 0,8–2,0 µm (32–80 µ-in) | | | 1,0–5,0 µm (40–200 µ-in) |
| Surface roughness (Ra)  | < 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.

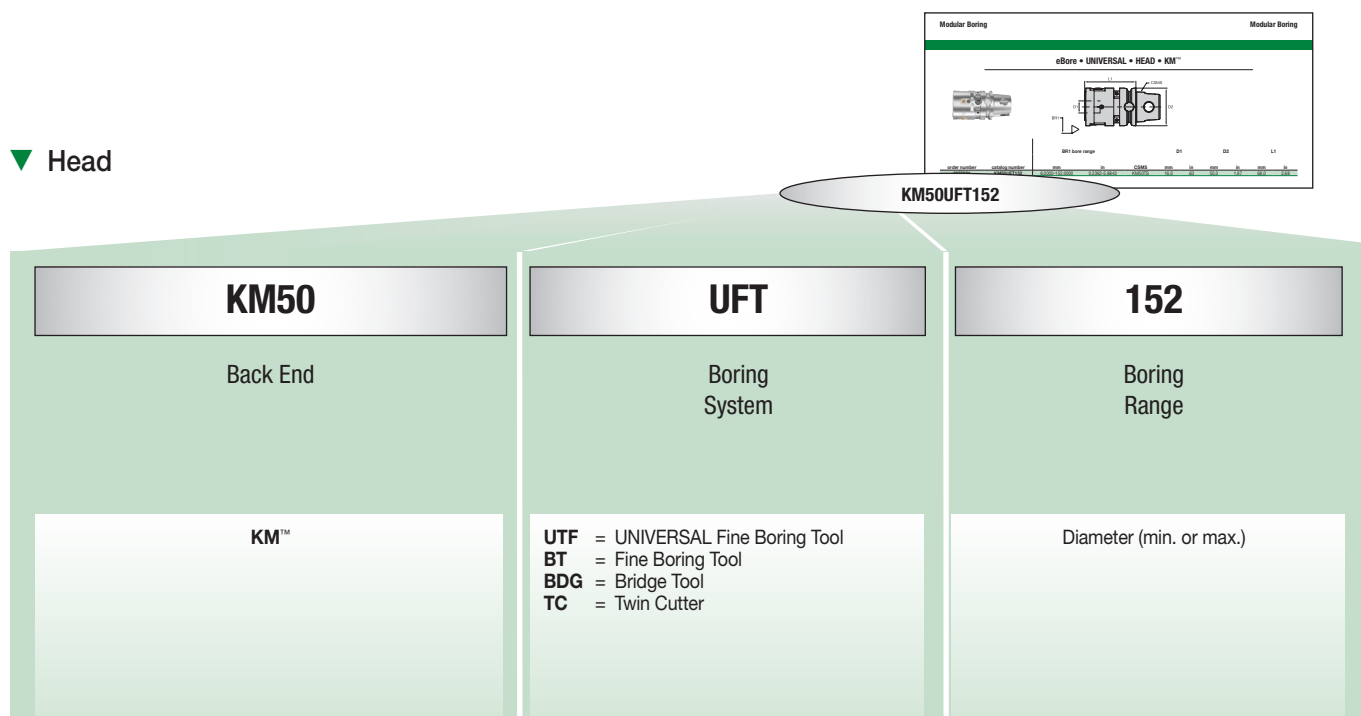
Find inventory availability.

Download 2-D and 3-D models.

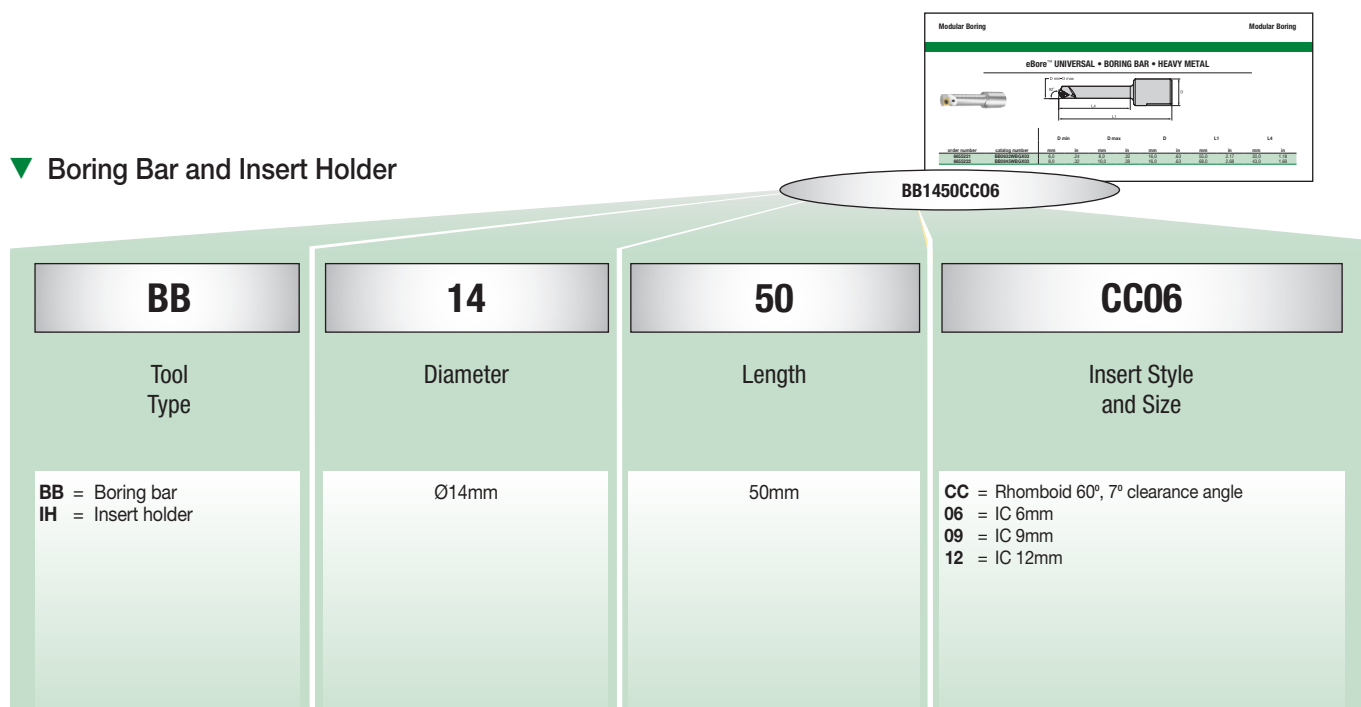
Easy interface with many CAM and
tool management data systems.

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.

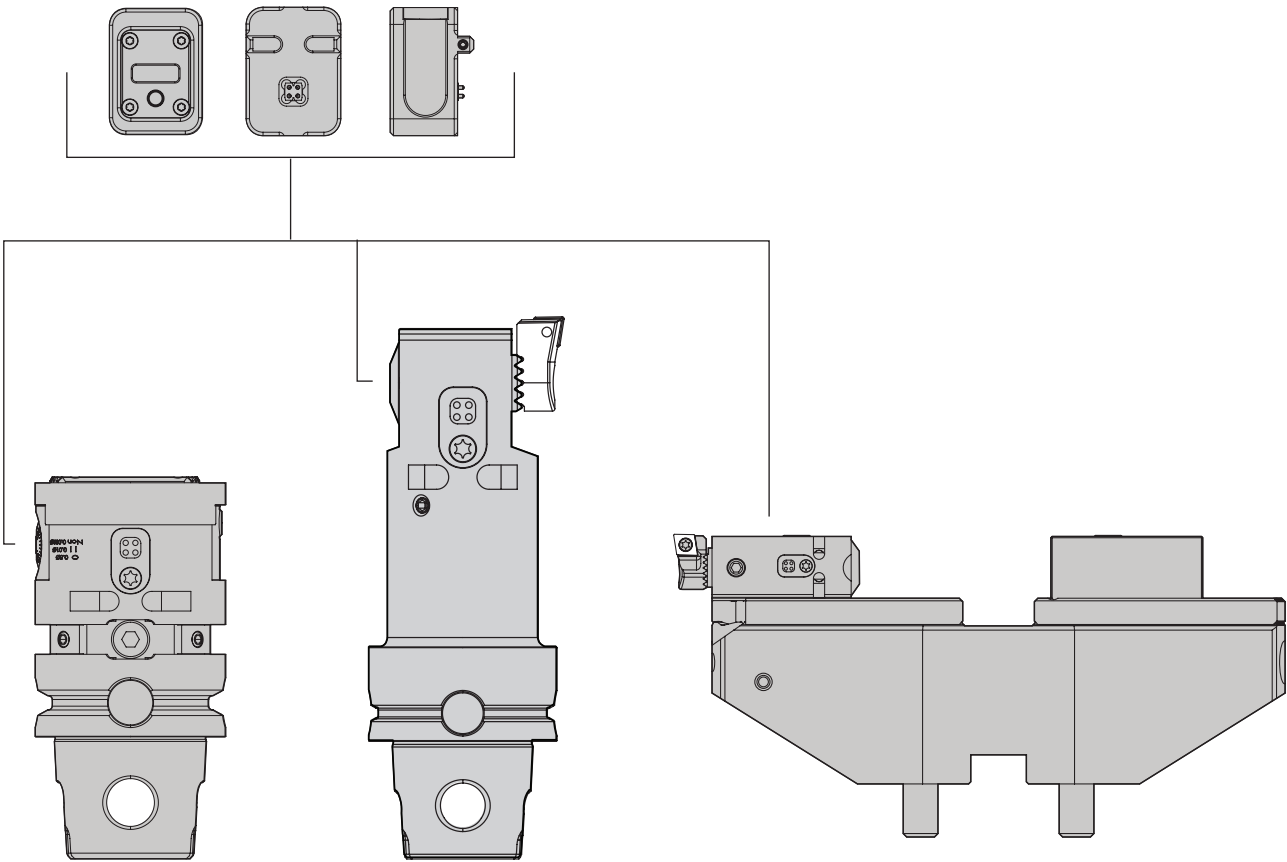
▼ Head



▼ Boring Bar and Insert Holder



eBore™ Digital Display Overview



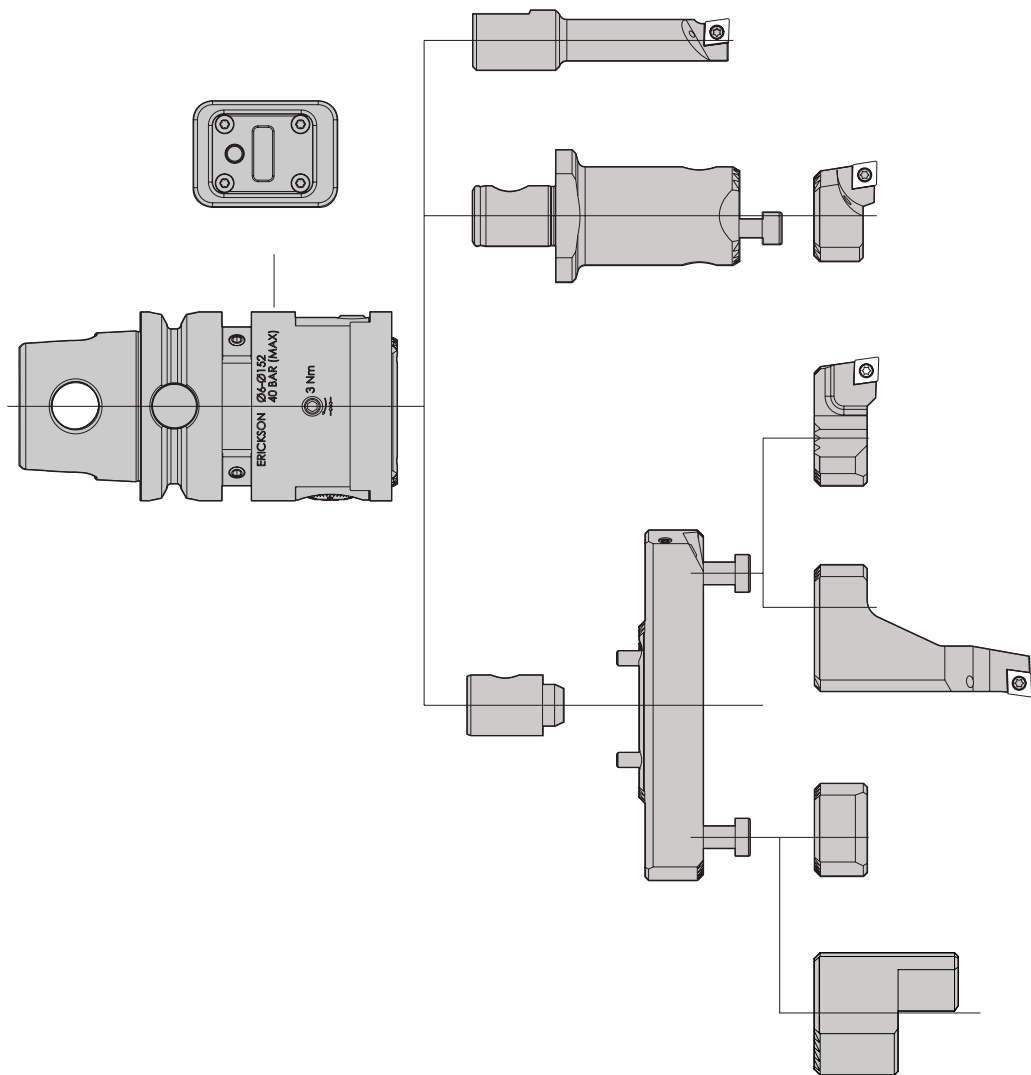
eBore DIGITAL DISPLAY




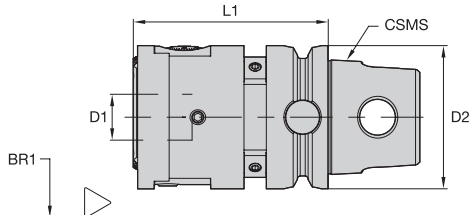
order number
6655307
6655306

catalog number
FBDD0001IN
FBDD0001M

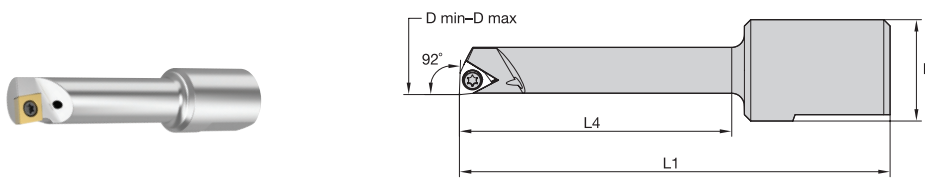
eBore™ UNIVERSAL OVERVIEW



eBore • UNIVERSAL • HEAD • KM™

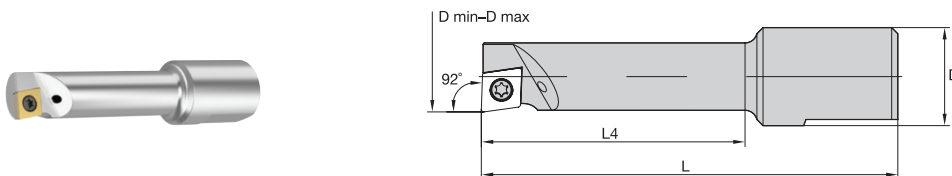
| | | | | | | | | | | | |
|---|----------------|--|---------------|--------|------|-----|------|------|------|------|--|
|  | |  | | | | | | | | | |
| | | BR1 bore range | | | | D1 | | D2 | | L1 | |
| order number | catalog number | mm | in | CSMS | mm | in | mm | in | mm | in | |
| 6655201 | KM50UFT152 | 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



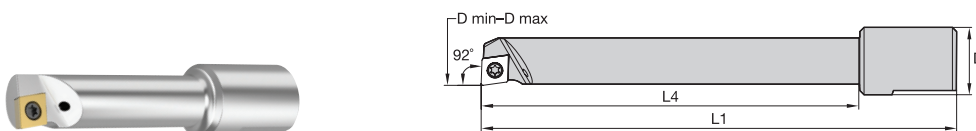
| order number | catalog number | D min | | D max | | D | | L1 | | L4 | |
|--------------|----------------|-------|-----|-------|-----|------|-----|------|------|------|------|
| | | mm | in | mm | in | mm | in | mm | in | mm | in |
| 6655221 | BB0632WBGX02 | 6,0 | .24 | 8,0 | .32 | 16,0 | .63 | 55,0 | 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



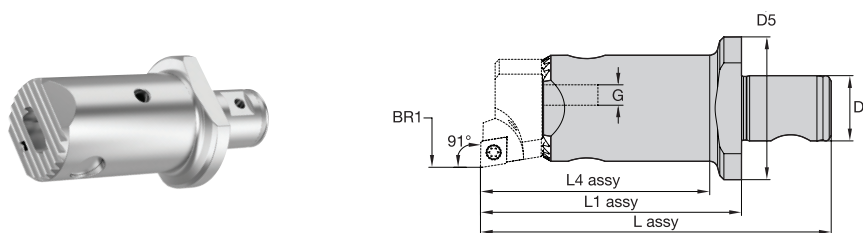
| order number | catalog number | D min | | D max | | D | | L | | L4 | |
|--------------|----------------|-------|-----|-------|------|------|-----|------|------|------|------|
| | | mm | in | mm | in | mm | in | mm | in | mm | in |
| 6655202 | BB0622WBGX02 | 6,0 | .24 | 8,0 | .32 | 16,0 | .63 | 45,0 | 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



| order number | catalog number | D min | | D max | | D | | L1 | | L4 | |
|--------------|----------------|-------|-----|-------|-----|------|-----|-------|------|-------|------|
| | | 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



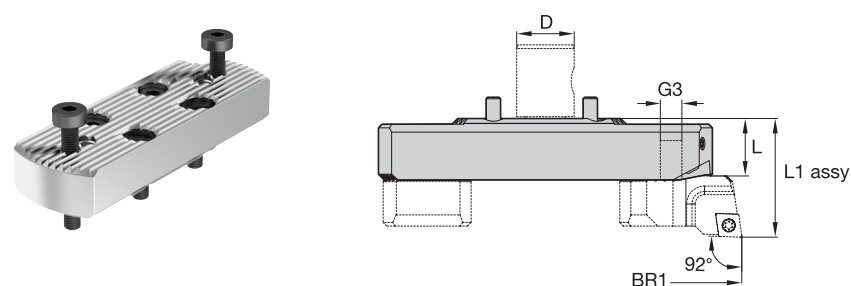
| order number | catalog number | BR1 | | D | | D5 | | L1 assy | | L2 assy | | G |
|--------------|----------------|-----------------|---------------|------|-----|------|------|---------|------|---------|------|-------|
| | | mm | in | mm | in | mm | in | mm | in | mm | in | |
| 6655223 | UFTE64 | 29,0000 | 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



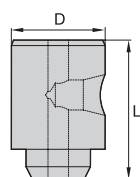
| order number | catalog number | D min | | D max | | L1 | |
|--------------|----------------|-------|------|-------|------|------|-----|
| | | mm | in | mm | in | mm | in |
| 6655226 | IH02916CC06 | 29,0 | 1.14 | 41,0 | 1.61 | 16,0 | .63 |
| 6655227 | IH04016CC06 | 40,0 | 1.57 | 53,0 | 2.09 | 16,0 | .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



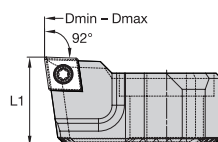
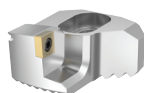
| order number | catalog number | BR1 | | D | | L | | L1 assy | | G3 |
|--------------|----------------|----------|--------|------|-----|------|-----|---------|------|--------|
| | | mm | in | mm | in | mm | in | mm | in | |
| 6655233 | UFTB06816 | 68,0000 | 2.6772 | 16,0 | .63 | 17,1 | .67 | 32,5 | 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



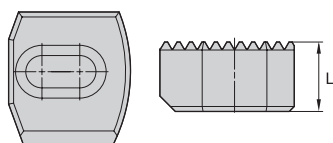
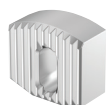
| order number | catalog number | D | | L | |
|--------------|----------------|------|-----|------|------|
| | | mm | in | mm | in |
| 6655238 | CBUFTB | 16,0 | .63 | 25,5 | 1.00 |

eBore UNIVERSAL • INSERT HOLDER I.D. • CC06



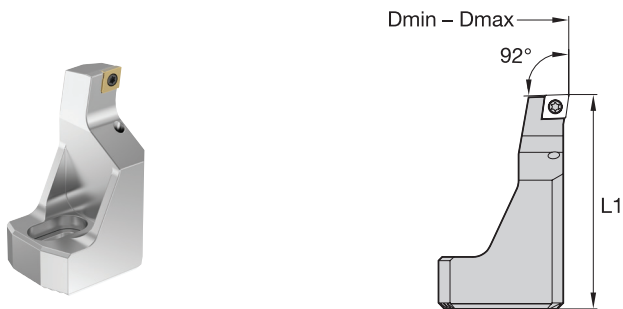
| order number | catalog number | D min | | D max | | L1 | |
|--------------|----------------|-------|------|-------|------|------|-----|
| | | mm | in | mm | in | mm | in |
| 6655236 | IHUFTBCC06 | 68,0 | 2.68 | 152,0 | 5.98 | 16,5 | .65 |

eBore UNIVERSAL • COUNTERWEIGHT I.D.



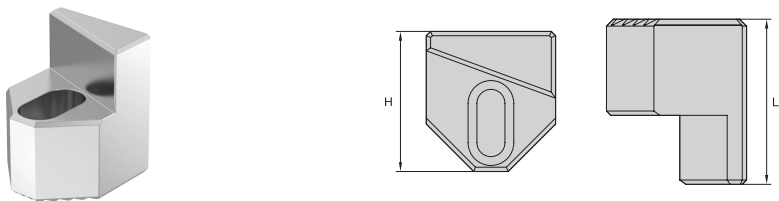
| order number | catalog number | L | |
|--------------|----------------|------|-----|
| | | mm | in |
| 6655237 | CWUFTB | 14,0 | .55 |

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



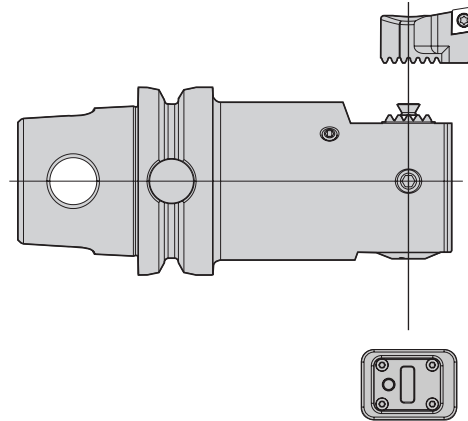
| | | D min | | D max | | L1 | |
|--------------|----------------|-------|-----|-------|------|------|------|
| order number | catalog number | mm | in | mm | in | mm | in |
| 6655308 | IHUFTODCC06 | 2,0 | .08 | 58,0 | 2.28 | 57,0 | 2.24 |

eBore UNIVERSAL • COUNTERWEIGHT O.D.

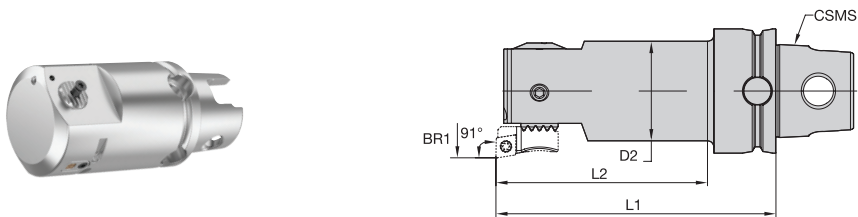


| | | L | | H | |
|--------------|----------------|------|------|------|------|
| order number | catalog number | mm | in | mm | in |
| 6655309 | CWUFTBOD | 38,3 | 1.51 | 32,5 | 1.28 |

eBore™ FINE BORING OVERVIEW



eBore FINE BORING • CUTTING UNIT • KM™



| order number | catalog number | BR1 | | CSMS | D2 | | L1 assy | | L2 assy | |
|--------------|----------------|-------------------|---------------|--------|------|------|---------|------|---------|------|
| | | mm | in | | mm | in | mm | in | mm | 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

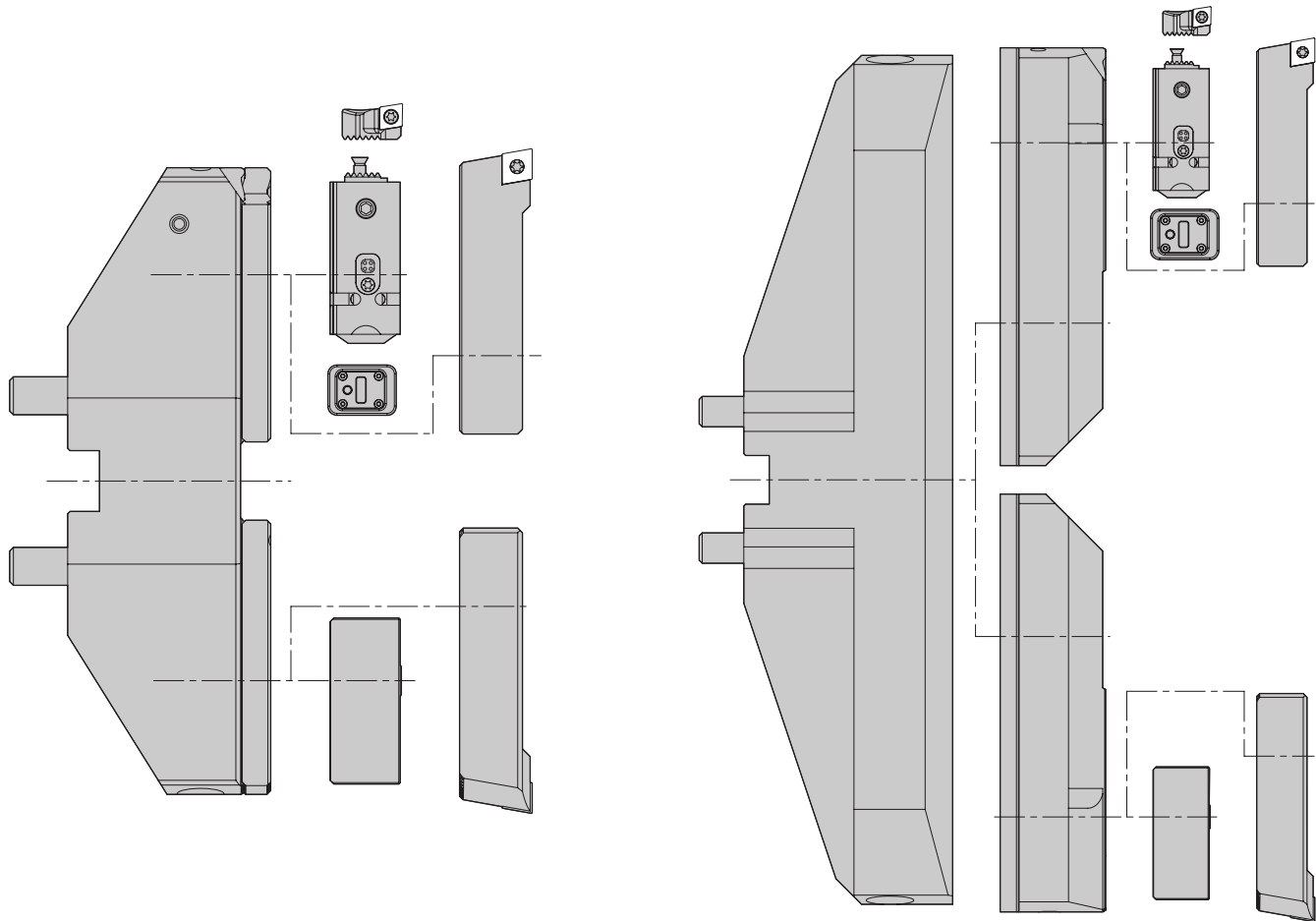


| order number | catalog number | D min | | D max | |
|--------------|----------------|-------|------|-------|------|
| | | mm | in | mm | in |
| 6655291 | IHBT024CC06 | 24,5 | .96 | 29,5 | 1.16 |
| 6655293 | IHBT036CC06 | 29,0 | 1.14 | 42,0 | 1.65 |
| 6655296 | IHBT053CC06 | 53,0 | 2.09 | 205,0 | 8.07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

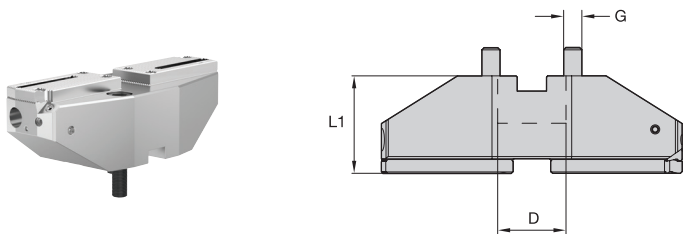
eBore™ BRIDGE TOOLS OVERVIEW

eBore — Bridge S (Small)

eBore — Bridge L (Large)

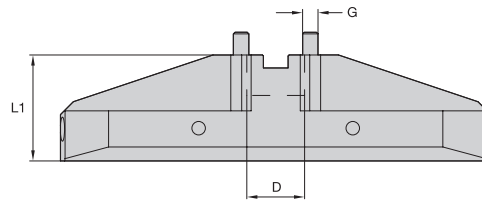


eBore • BRIDGE S



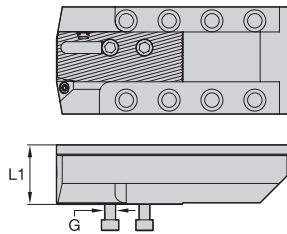
| order number | catalog number | BR1 | | D | | L1 | | L1 assy | | G | G3 |
|--------------|----------------|-------------------|-----------------|------|------|------|------|---------|------|--------|-------|
| | | mm | in | mm | in | mm | in | mm | in | | |
| 6655282 | BDG20060 | 200,0000-280,0000 | 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



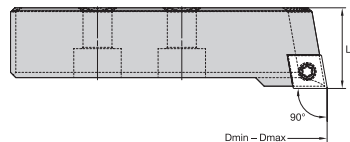
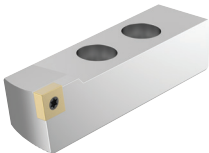
| order number | catalog number | BR1 | | D | | L1 | | L1 assy | | G | G3 |
|--------------|----------------|--------------------|-----------------|------|------|-------|------|---------|------|--------|-------|
| | | mm | in | mm | in | mm | in | mm | in | | |
| 6655287 | BDG46560 | 465,0000-745,0000 | 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



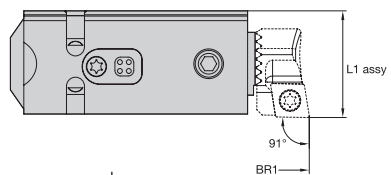
| order number | catalog number | L1 | | G |
|--------------|----------------|------|------|---------|
| | | mm | in | |
| 6655288 | SBDG46545 | 45,0 | 1.77 | M10X1,5 |

eBore • BRIDGE S/L • INSERT HOLDER • CC12



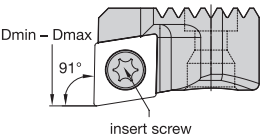
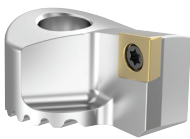
| order number | catalog number | D min | | D max | | L1 | |
|--------------|----------------|-------|------|--------|-------|------|------|
| | | mm | in | mm | in | mm | in |
| 6655283 | IHBDGCC12 | 200,0 | 7.87 | 1020,0 | 40.16 | 30,1 | 1.18 |

eBore • BRIDGE S/L • SLIDE



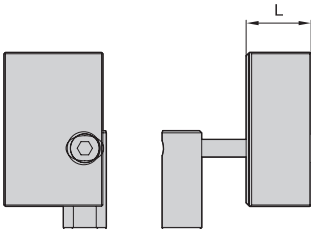
| order number | catalog number | BR1 | | L1 assy | |
|--------------|----------------|--------------------|----------------|---------|------|
| | | mm | in | mm | in |
| 6655302 | BFBS10012 | 100,0000-1020,0000 | 3.9370-40.1575 | 30,0 | 1.18 |

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



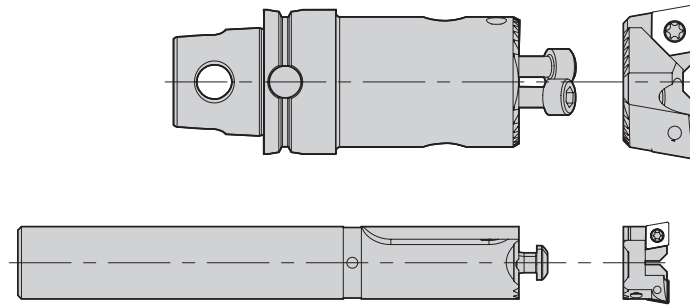
| order number | catalog number | D min | | D max | |
|--------------|----------------|-------|------|--------|-------|
| | | mm | in | mm | in |
| 6655303 | IHBFBSCC09 | 200,0 | 7.87 | 1020,0 | 40.16 |

eBore • BRIDGE S/L • SLIDE • COUNTERWEIGHT

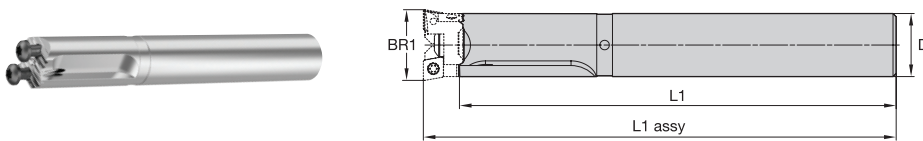


| order number | catalog number | L | |
|--------------|----------------|------|------|
| | | mm | in |
| 6655305 | CWBFBS | 68,2 | 2.69 |

eBore™ TWIN CUTTER OVERVIEW



eBore • TWIN CUTTER • STRAIGHT SHANK



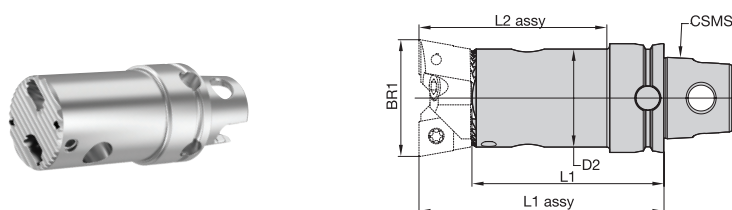
| order number | catalog number | BR1 | | CSMS | D | | L1 | | L1 assy | |
|--------------|----------------|-----------------|---------------|------|------|-----|-------|------|---------|------|
| | | mm | in | | mm | in | mm | in | mm | in |
| 6655239 | SS18TC0195 | 19,5000-23,0000 | 0.7677-0.9055 | — | 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



| order number | catalog number | D min | | D max | |
|--------------|----------------|-------|------|-------|------|
| | | 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™



| order number | catalog number | BR1 | | CSMS | D2 | | L1 | | L1 assy | | L2 assy | |
|--------------|----------------|-------------------|---------------|--------|-------|------|-------|------|---------|------|---------|------|
| | | mm | in | | 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 |

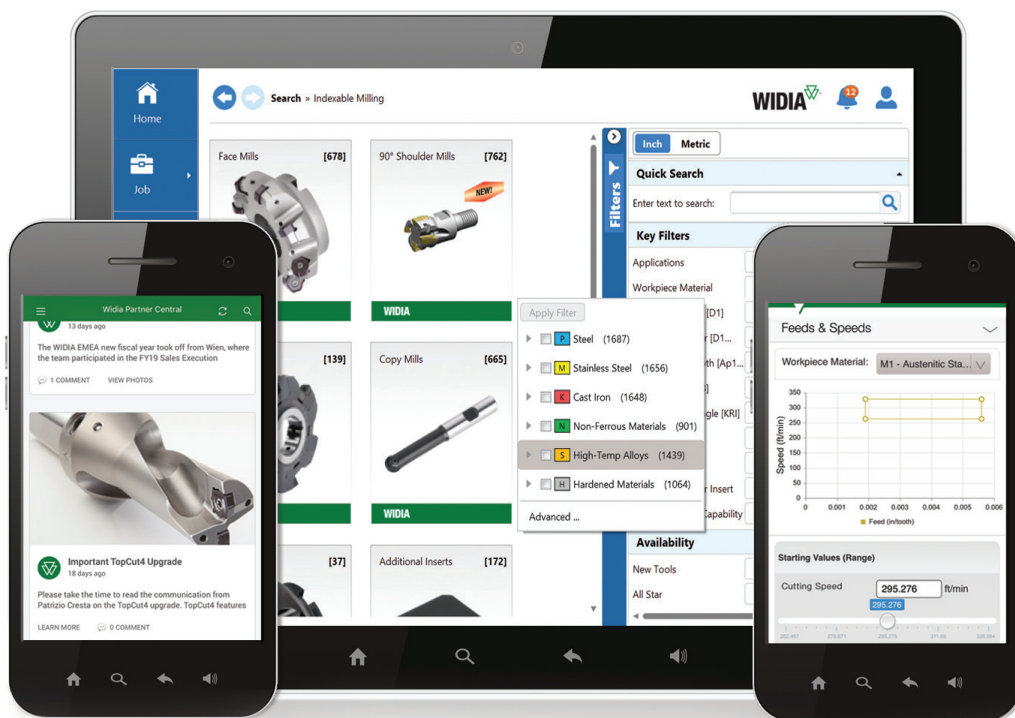
eBore • TWIN CUTTER • KM • INSERT HOLDER



| order number | catalog number | D min | | D max | |
|--------------|----------------|-------|------|-------|------|
| | | 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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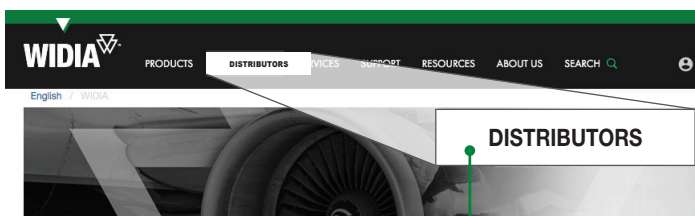
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IMPORTANT SAFETY INSTRUCTIONS: READ BEFORE USING THE TOOLS IN THIS CATALOG

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.

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.

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.

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