

# eBore™

## Digital Fine Boring System

### Materials



### Applications



Reaming:  
Through Hole



Reaming:  
Blind Hole



Reaming:  
Through & Cross Holes



Reaming:  
Blind & Cross Holes



One digital display for  
all fine boring tools.

[kennametal.com/eBore](http://kennametal.com/eBore)

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

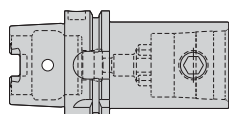
The digital eBore display provides the option to readjust the tool on the spindle, reducing setup time and idle time.

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

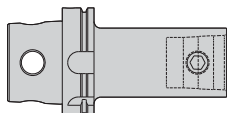
Micron by micron, the precision adjustment of each tool is just as easy as 1, 2, 3.



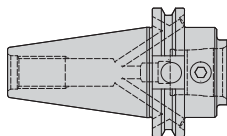
## Adaptors



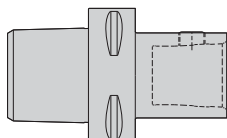
HSK to KM™



KM4X™ to KM

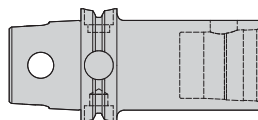


BT, CV, DV to KM

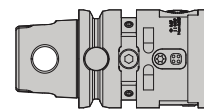


PSC to KM

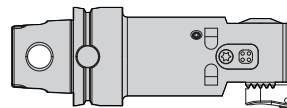
## Extensions



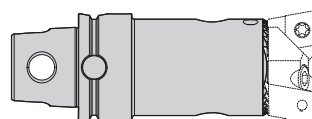
## eBore™



eBore Universal

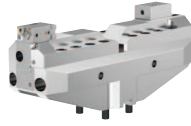


eBore Fine Boring



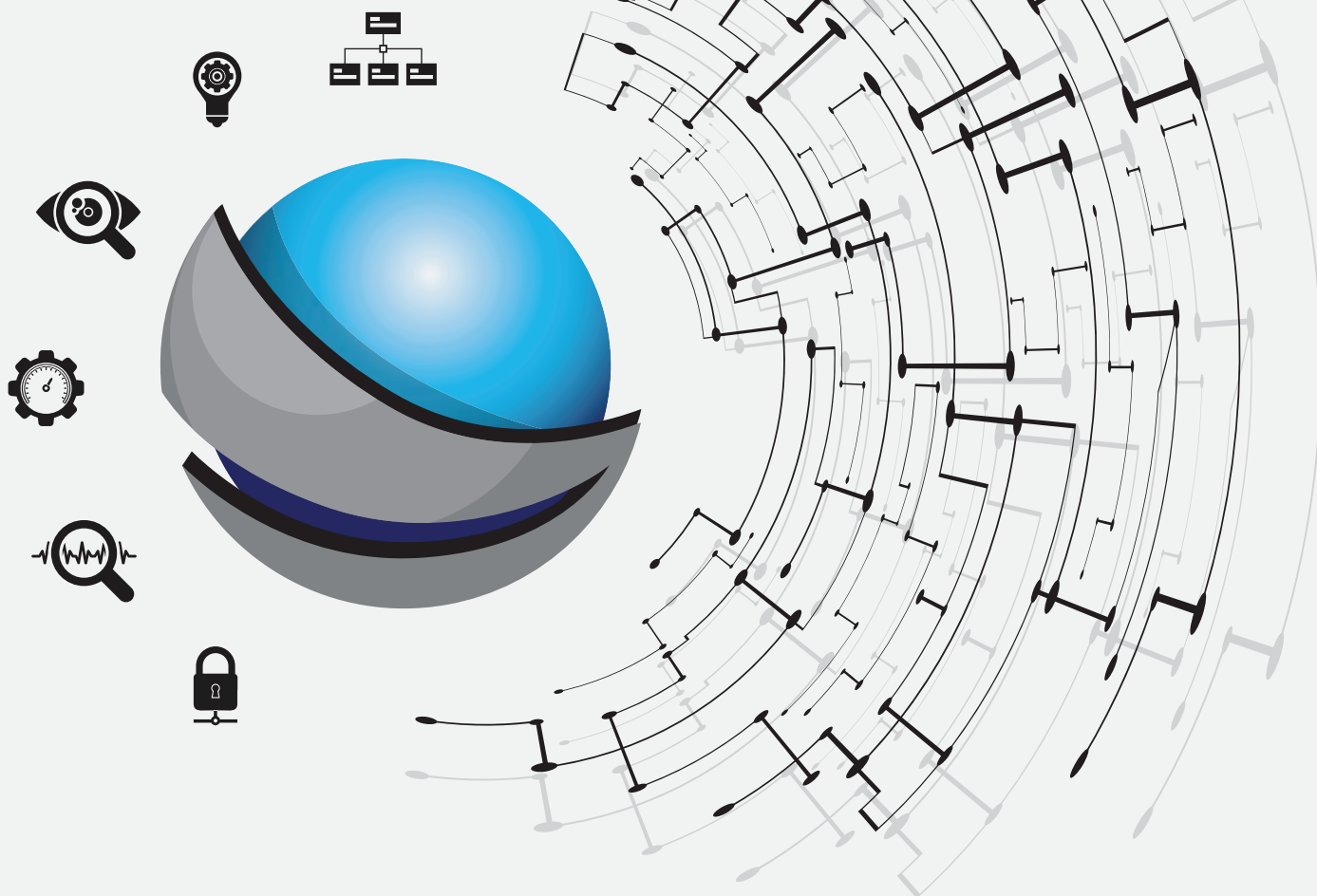
eBore Twin Cutter

## Tool Selection Guide • Fine Boring

|                        |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                        |    |    |    |    |
| Series                 | eBore™ Universal                                                                    | eBore Fine Boring Tool                                                              | eBore Bridge Finishing Tools                                                          | eBore Twin Cutters                                                                    |
| Page                   | 40                                                                                  | 45                                                                                  | 46                                                                                    | 49                                                                                    |
| 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                                                                             | 20–205mm                                                                            | 200–1020mm                                                                            | 19,5–1020mm                                                                           |
| Accuracy               | IT6                                                                                 |                                                                                     |                                                                                       | IT9                                                                                   |
| Cylindricity           |    | 5 µm                                                                                |                                                                                       |                                                                                       |
| Position               |    | 5–10 µm                                                                             |                                                                                       |                                                                                       |
| Surface roughness (Ra) | P                                                                                   | 0,8–2,0 µm                                                                          |                                                                                       |                                                                                       |
| Surface roughness (Ra) | M                                                                                   | 0,8–2,0 µm                                                                          |                                                                                       |                                                                                       |
| Surface roughness (Ra) | K                                                                                   | 0,8–2,0 µm                                                                          |                                                                                       |                                                                                       |
| Surface roughness (Ra) | N                                                                                   | 0,8–2,0 µm                                                                          |                                                                                       |                                                                                       |
| Surface roughness (Ra) | S                                                                                   | 0,8–2,0 µm                                                                          |                                                                                       |                                                                                       |
| Surface roughness (Ra) | H                                                                                   | < 1,2 µm                                                                            |                                                                                       |                                                                                       |
| Coolant                |  |  |  |  |
| Main Operations        |  |  |  |  |

For insert selection, see Kennametal Master Catalogue 2018 I A-16-05217, or visit [kennametal.com](http://kennametal.com).





**Digitally access and leverage product data and knowledge  
to connect systems and processes throughout  
the entire manufacturing lifecycle.**

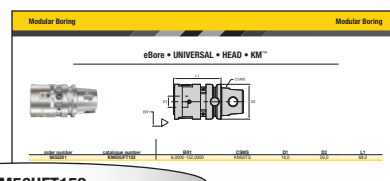
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## eBore™ • CATALOGUE NUMBERING SYSTEM

Each character in our catalogue 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**

Back End

KM™

**UFT**

Boring  
System

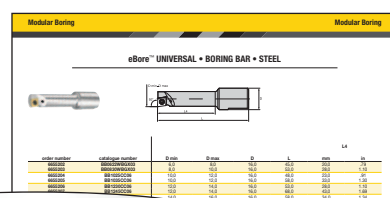
**UTF** = UNIVERSAL Fine Boring Tool  
**BT** = Fine Boring Tool  
**BDG** = Bridge Tool  
**TC** = Twin Cutter

**152**

Boring  
Range

Diameter (min. or max.)

### ■ Boring Bar and Insert Holder



BB1450CC06

**BB**

Tool  
Type

**BB** = Boring bar  
**IH** = Insert holder

**14**

Diameter

Ø14mm

**50**

Length

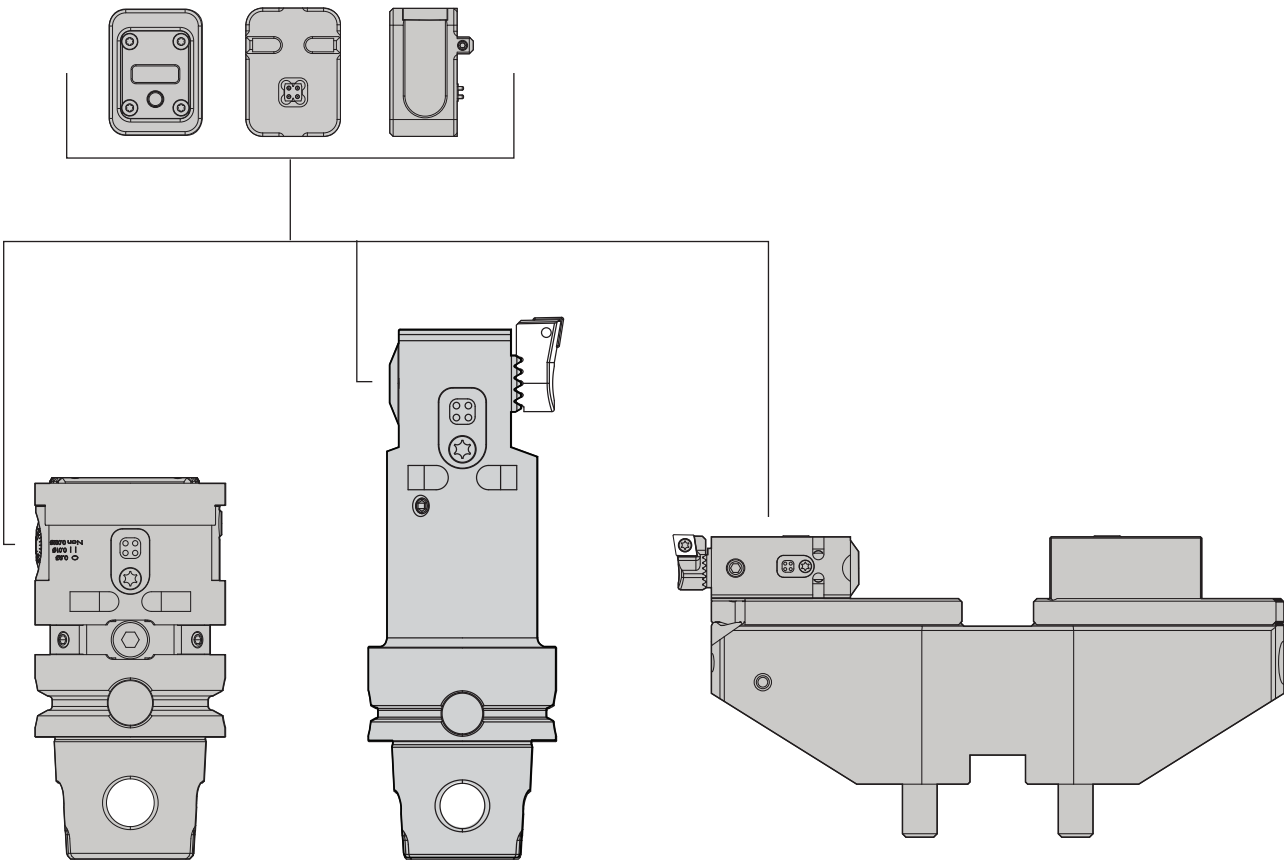
50mm

**CC06**

Insert Style  
and Size

**CC** = Rhomboid 60°, 7° clearance angle  
**06** = IC 6mm  
**09** = IC 9mm  
**12** = IC 12mm

eBore™ DIGITAL DISPLAY OVERVIEW



eBore DIGITAL DISPLAY

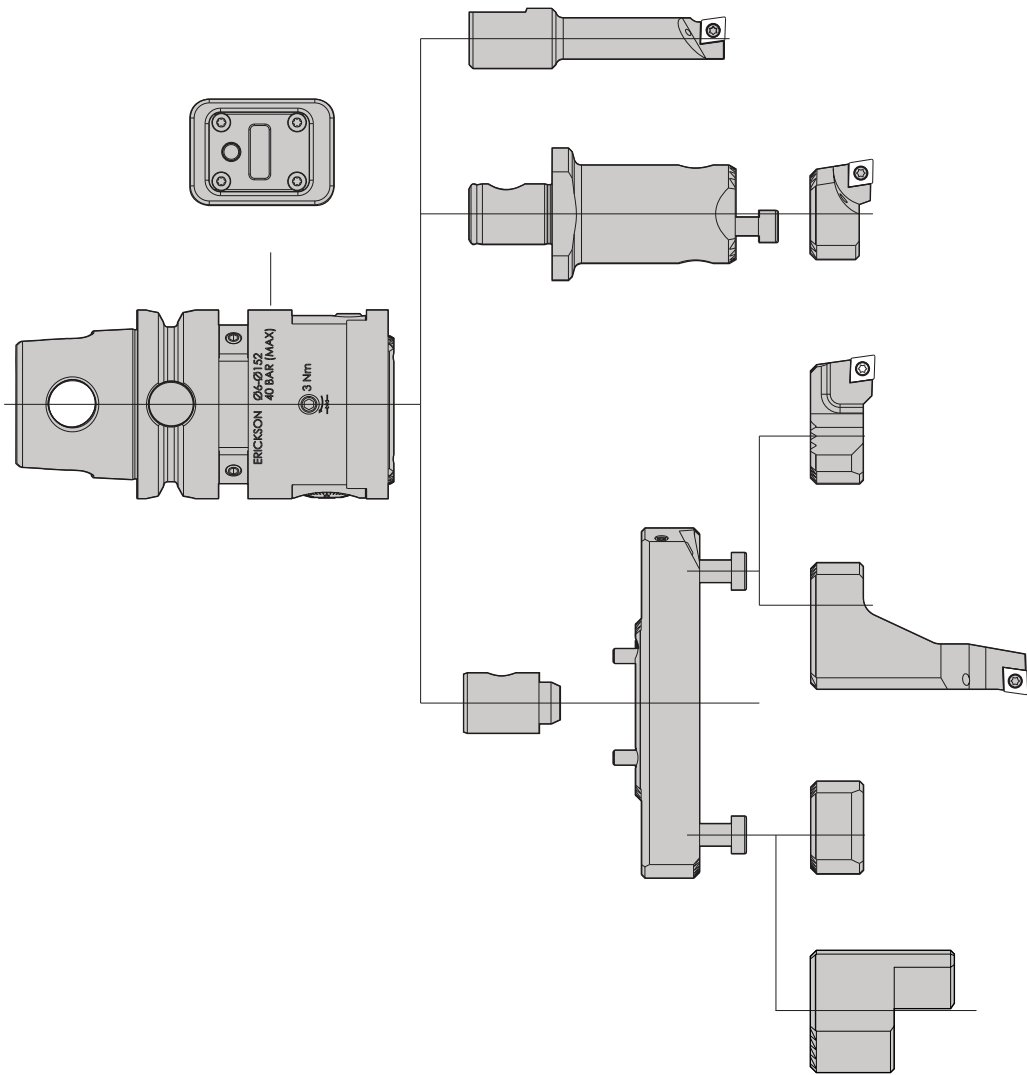


order number  
6655307  
6655306

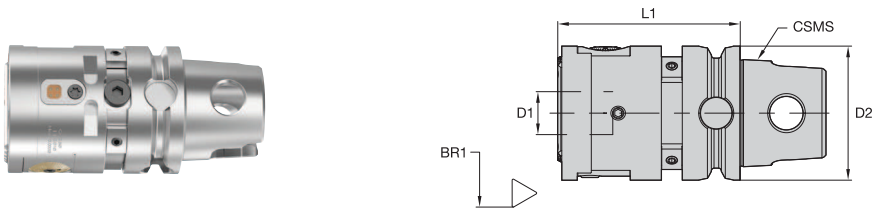
catalogue number  
FBDD0001IN  
FBDD0001M

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 154                                                                                 | 156                                                                                 | 38                                                                                  | 4                                                                                   | 160                                                                                 |

eBore™ UNIVERSAL OVERVIEW



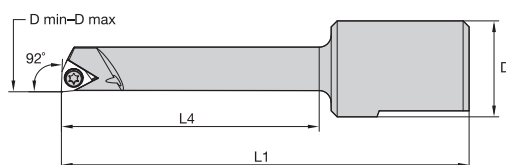
eBore • UNIVERSAL • HEAD • KM™



| order number | catalogue number | BR1             | CSMS   | D1   | D2   | L1   |
|--------------|------------------|-----------------|--------|------|------|------|
| 6655201      | KM50UFT152       | 6,0000-152,0000 | KM50TS | 16,0 | 50,0 | 68,0 |

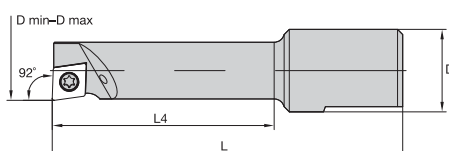
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 154                                                                                 | 156                                                                                 | 38                                                                                  | 4                                                                                   | 160                                                                                 |

## eBore™ UNIVERSAL • BORING BAR • HEAVY METAL



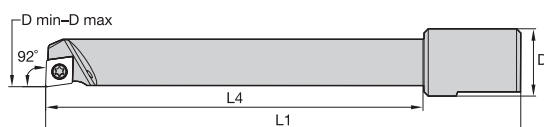
| order number | catalogue number | D min | D max | D    | L1   | L4   |
|--------------|------------------|-------|-------|------|------|------|
| 6655221      | BB0632WBGX03     | 6,0   | 8,0   | 16,0 | 55,0 | 30,0 |
| 6655222      | BB0845WBGX03     | 8,0   | 10,0  | 16,0 | 68,0 | 43,0 |

## eBore UNIVERSAL • BORING BAR • STEEL



| order number | catalogue number | D min | D max | D    | L    | L4   |
|--------------|------------------|-------|-------|------|------|------|
| 6655202      | BB0622WBGX03     | 6,0   | 8,0   | 16,0 | 45,0 | 20,0 |
| 6655203      | BB0830WBGX03     | 8,0   | 10,0  | 16,0 | 53,0 | 28,0 |
| 6655204      | BB1025CC06       | 10,0  | 12,0  | 16,0 | 48,0 | 23,0 |
| 6655205      | BB1035CC06       | 10,0  | 12,0  | 16,0 | 58,0 | 33,0 |
| 6655206      | BB1230CC06       | 12,0  | 14,0  | 16,0 | 53,0 | 28,0 |
| 6655207      | BB1245CC06       | 12,0  | 14,0  | 16,0 | 68,0 | 43,0 |
| 6655208      | BB1435CC06       | 14,0  | 16,0  | 16,0 | 58,0 | 34,0 |
| 6655209      | BB1450CC06       | 14,0  | 16,0  | 16,0 | 73,0 | 48,4 |
| 6655210      | BB1560CC06       | 15,0  | 20,0  | 16,0 | 83,0 | 57,8 |
| 6655211      | BB1640CC06       | 16,0  | 20,0  | 16,0 | 63,0 | 40,0 |
| 6655212      | BB2070CC06       | 20,0  | 25,0  | 16,0 | 93,0 | 70,0 |
| 6655213      | BB2570CC06       | 25,0  | 30,0  | 16,0 | 93,0 | 70,0 |

## eBore UNIVERSAL • BORING BAR • CARBIDE

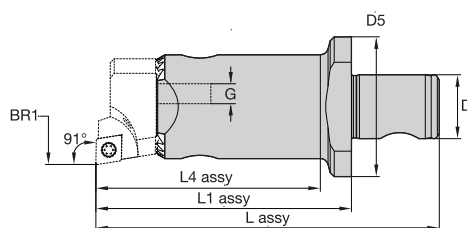


| order number | catalogue number | D min | D max | D    | L1    | L4    |
|--------------|------------------|-------|-------|------|-------|-------|
| 6655214      | BB1055CC06       | 10,0  | 12,0  | 16,0 | 78,0  | 55,0  |
| 6655215      | BB1075CC06       | 10,0  | 12,0  | 16,0 | 98,0  | 75,0  |
| 6655216      | BB1290CC06       | 12,0  | 14,0  | 16,0 | 113,0 | 90,0  |
| 6655217      | BB1475CC06       | 14,0  | 16,0  | 16,0 | 98,0  | 75,0  |
| 6655218      | BB14100CC06      | 14,0  | 16,0  | 16,0 | 123,0 | 100,0 |
| 6655219      | BB1690CC06       | 16,0  | 20,0  | 16,0 | 113,0 | 90,0  |
| 6655220      | BB16120CC06      | 16,0  | 20,0  | 16,0 | 143,0 | 120,0 |

|     |     |    |   |     |
|-----|-----|----|---|-----|
|     |     |    |   |     |
| 154 | 156 | 38 | 4 | 160 |

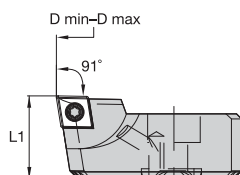
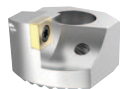


## eBore™ UNIVERSAL • EXTENSION



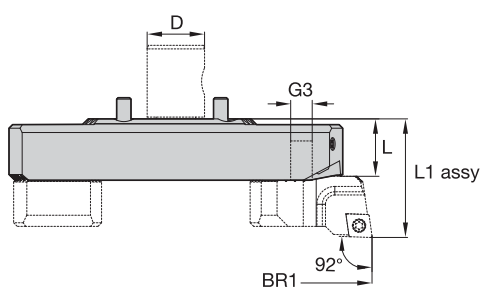
| order number | catalogue number | BR1             | D    | D5   | L1 assy | L2 assy | G     |
|--------------|------------------|-----------------|------|------|---------|---------|-------|
| 6655223      | UFTE64           | 29,0000         | 16,0 | 35,0 | 64,0    | 56,2    | M5X20 |
| 6655224      | UFTE100          | 29,0000-53,0000 | 16,0 | 35,0 | 100,0   | 92,2    | M5X20 |

## eBore UNIVERSAL • INSERT HOLDER • CC06



| order number | catalogue number | D min | D max | L1   |
|--------------|------------------|-------|-------|------|
| 6655226      | IH02916CC06      | 29,0  | 41,0  | 16,0 |
| 6655227      | IH04016CC06      | 40,0  | 53,0  | 16,0 |
| 6655228      | IH05216CC06      | 52,0  | 77,0  | 16,5 |
| 6655229      | IH07616CC06      | 76,0  | 102,0 | 16,5 |

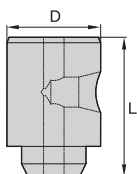
## eBore UNIVERSAL • BRIDGE



| order number | catalogue number | BR1               | D    | L    | L1 assy | G3     |
|--------------|------------------|-------------------|------|------|---------|--------|
| 6655233      | UFTB06816        | 68,0000-96,0000   | 16,0 | 17,1 | 32,5    | M4X0.7 |
| 6655234      | UFTB09616        | 96,0000-124,0000  | 16,0 | 17,1 | 32,5    | M4X0.7 |
| 6655235      | UFTB12416        | 124,0000-152,0000 | 16,0 | 17,1 | 32,5    | M4X0.7 |

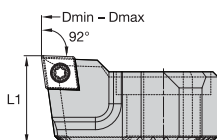
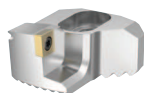
|     |     |    |   |     |
|-----|-----|----|---|-----|
|     |     |    |   |     |
| 154 | 156 | 38 | 4 | 160 |

## eBore™ UNIVERSAL • COOLANT CONNECTOR



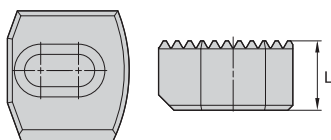
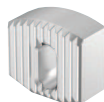
| order number | catalogue number | D    | L    |
|--------------|------------------|------|------|
| 6655238      | CBUFTB           | 16,0 | 25,5 |

## eBore UNIVERSAL • INSERT HOLDER I.D. • CC06



| order number | catalogue number | D min | D max | L1   |
|--------------|------------------|-------|-------|------|
| 6655236      | IHUFTBCC06       | 68,0  | 152,0 | 16,5 |

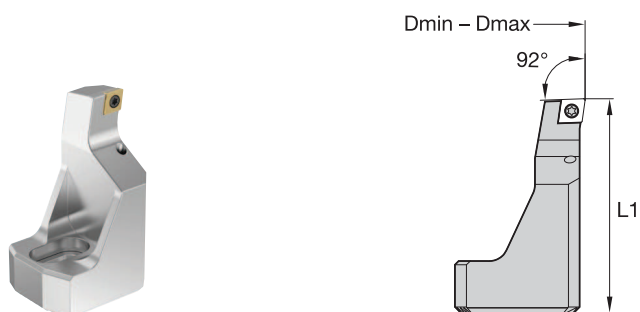
## eBore UNIVERSAL • COUNTERWEIGHT I.D.



| order number | catalogue number | L    |
|--------------|------------------|------|
| 6655237      | CWUFTB           | 14,0 |

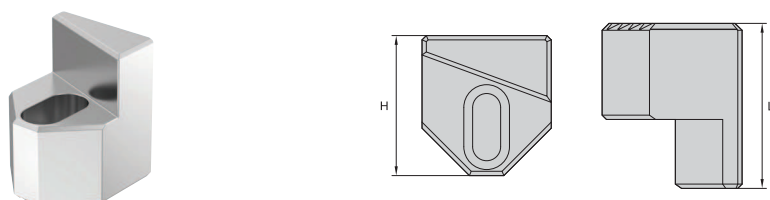
|     |     |    |   |     |
|-----|-----|----|---|-----|
|     |     |    |   |     |
| 154 | 156 | 38 | 4 | 160 |

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



| order number | catalogue number | D min | D max | L1   |
|--------------|------------------|-------|-------|------|
| 6655308      | IHUFTODCC06      | 2,0   | 58,0  | 57,0 |

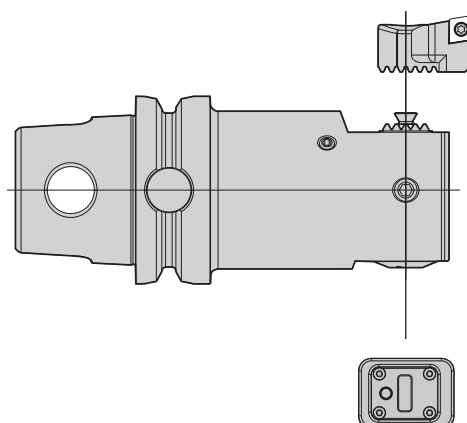
## eBore UNIVERSAL • COUNTERWEIGHT O.D.



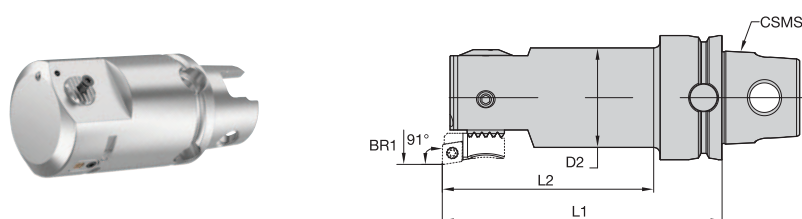
| order number | catalogue number | L    | H    |
|--------------|------------------|------|------|
| 6655309      | CWUFTBOD         | 38,3 | 32,5 |

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 154                                                                                 | 156                                                                                 | 38                                                                                  | 4                                                                                   | 160                                                                                 |

## eBore™ FINE BORING OVERVIEW



### eBore FINE BORING • CUTTING UNIT • KM™



| order number | catalogue number | BR1               | CSMS   | D2   | L1 assy | L2 assy |
|--------------|------------------|-------------------|--------|------|---------|---------|
| 6655290      | KM32BT024532     | 24,5000-29,5000   | KM32TS | 23,0 | 90,0    | 78,0    |
| 6655292      | KM32BT02942      | 29,0000-44,0000   | KM32TS | 27,0 | 100,0   | 88,0    |
| 6655294      | KM40BT04352      | 43,0000-54,0000   | KM40TS | 32,0 | 90,0    | 68,0    |
| 6655295      | KM50BT05357      | 53,0000-66,0000   | KM50TS | 42,0 | 90,0    | 68,0    |
| 6655297      | KM50BT06557      | 65,0000-83,0000   | KM50TS | 50,0 | 90,0    | 90,0    |
| 6655298      | KM63BT08272      | 82,0000-103,0000  | KM63TS | 63,0 | 100,0   | 100,0   |
| 6655299      | KM80BT10072      | 100,0000-130,0000 | KM80TS | 80,0 | 120,0   | 120,0   |
| 6655300      | KM80BT12572      | 125,0000-167,5000 | KM80TS | —    | 120,0   | 120,0   |
| 6655301      | KM80BT162572     | 162,5000-205,0000 | KM80TS | —    | 150,0   | 150,0   |

### eBore FINE FINISHING • INSERT HOLDER

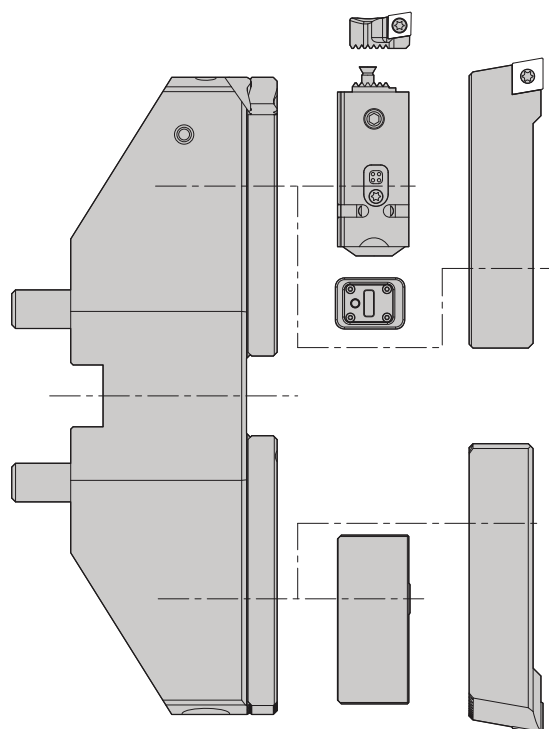


| order number | catalogue number | D min | D max |
|--------------|------------------|-------|-------|
| 6655291      | IHBT024CC06      | 24,5  | 29,5  |
| 6655293      | IHBT036CC06      | 29,0  | 42,0  |
| 6655296      | IHBT053CC06      | 53,0  | 205,0 |

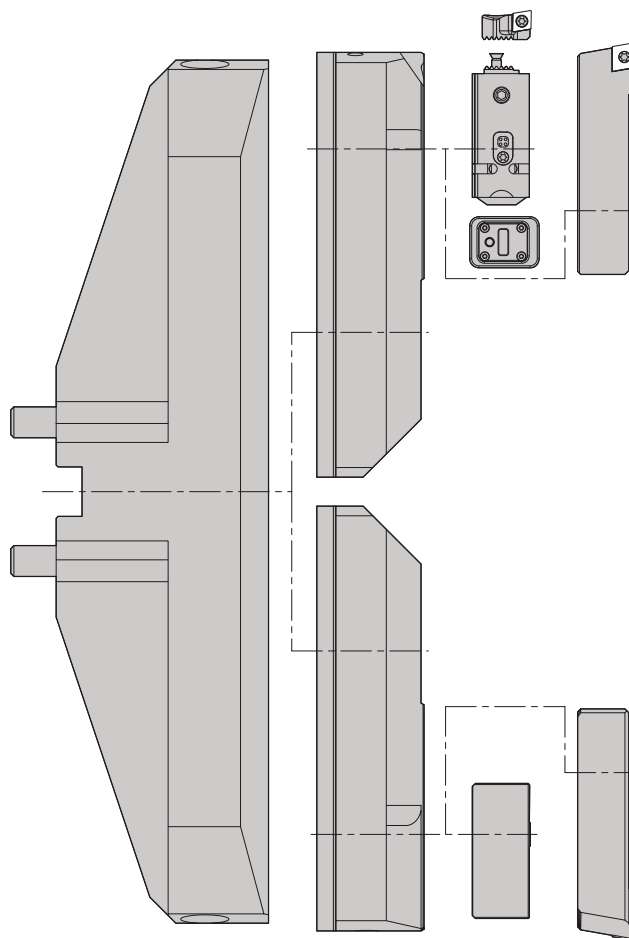
|     |     |    |   |     |
|-----|-----|----|---|-----|
|     |     |    |   |     |
| 154 | 156 | 38 | 4 | 160 |

## eBore™ BRIDGE TOOLS OVERVIEW

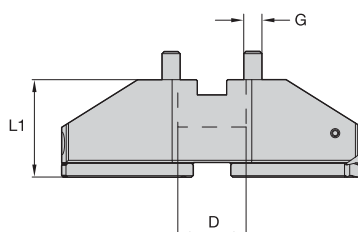
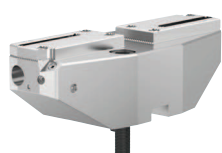
eBore — Bridge S (Small)



eBore — Bridge L (Large)



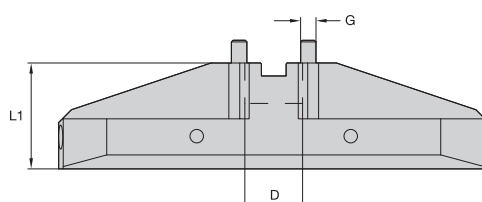
### eBore • BRIDGE S



| order number | catalogue number | BR1             | D    | L1   | L1 assy | G      |
|--------------|------------------|-----------------|------|------|---------|--------|
| 6655282      | BDG20060         | 200,000-280,000 | 60,0 | 85,0 | 115,1   | M10X50 |
| 6655284      | BDG27560         | 275,000-355,000 | 60,0 | 85,0 | 115,1   | M10X50 |
| 6655285      | BDG35060         | 350,000-430,000 | 60,0 | 85,0 | 115,1   | M10X50 |
| 6655286      | BDG42560         | 425,000-505,000 | 60,0 | 85,0 | 115,1   | M10X50 |

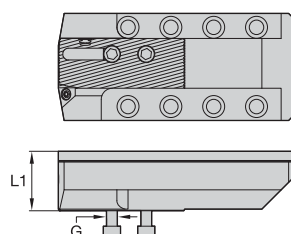
|     |     |    |   |     |
|-----|-----|----|---|-----|
|     |     |    |   |     |
| 154 | 156 | 38 | 4 | 160 |

## eBore™ • BRIDGE L



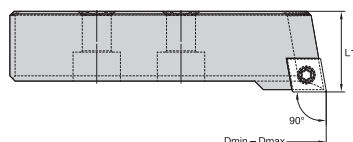
| order number | catalogue number | BR1                | D    | L1    | L1 assy | G      |
|--------------|------------------|--------------------|------|-------|---------|--------|
| 6655287      | BDG46560         | 465,0000-745,0000  | 60,0 | 110,0 | 185,1   | M12X55 |
| 6655289      | BDG74060         | 740,0000-1020,0000 | 60,0 | 110,0 | 185,1   | M12X55 |

## eBore • BRIDGE L • EXTENDER



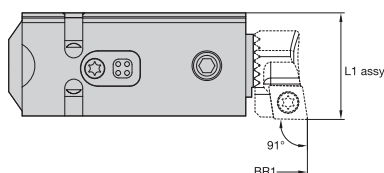
| order number | catalogue number | L1   | G       |
|--------------|------------------|------|---------|
| 6655288      | SBDG46545        | 45,0 | M10X1.5 |

## eBore • BRIDGE S/L • INSERT HOLDER • CC12



| order number | catalogue number | D min | D max  | L1   |
|--------------|------------------|-------|--------|------|
| 6655283      | IHBDGCC12        | 200,0 | 1020,0 | 30,1 |

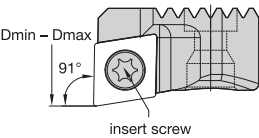
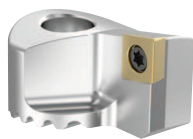
## eBore • BRIDGE S/L • SLIDE



| order number | catalogue number | BR1                | L1 assy |
|--------------|------------------|--------------------|---------|
| 6655302      | BFBS10012        | 100,0000-1020,0000 | 30,0    |

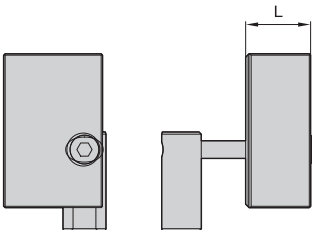
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 154                                                                                 | 156                                                                                 | 38                                                                                  | 4                                                                                   | 160                                                                                 |

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



| order number | catalogue number | D min | D max  |
|--------------|------------------|-------|--------|
| 6655303      | IHBFBSCC09       | 200,0 | 1020,0 |

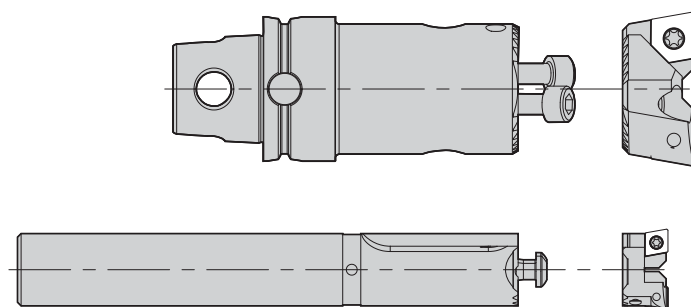
eBore • BRIDGE S/L • SLIDE • COUNTERWEIGHT



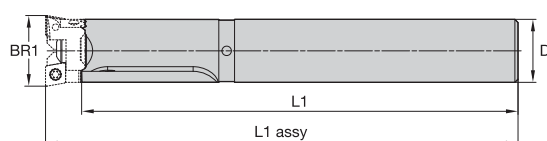
| order number | catalogue number | L    |
|--------------|------------------|------|
| 6655305      | CWBFBS           | 68,2 |

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 154                                                                                 | 156                                                                                 | 38                                                                                  | 4                                                                                   | 160                                                                                 |

## eBore™ TWIN CUTTER OVERVIEW

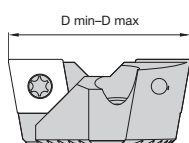


### eBore • TWIN CUTTER • STRAIGHT SHANK



| order number | catalogue number | BR1             | D    | L1    | L1 assy |
|--------------|------------------|-----------------|------|-------|---------|
| 6655239      | SS18TC0195       | 19,5000-23,0000 | 18,0 | 138,0 | 150,0   |
| 6655241      | SS20TC0225       | 22,2000         | 20,0 | 138,0 | 150,0   |
| 6655243      | SS23TC0255       | 25,5000-30,0000 | 23,0 | 148,2 | 160,0   |

### eBore • TWIN CUTTER • STRAIGHT SHANK • INSERT HOLDER

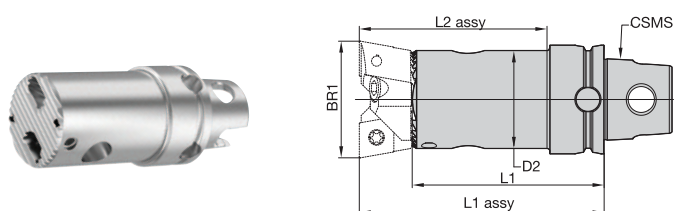


| order number | catalogue number | D min | D max |
|--------------|------------------|-------|-------|
| 6655240      | IHTC0195CC06     | 19,5  | 23,0  |
| 6655242      | IHTC0225CC06     | 22,5  | 26,0  |
| 6655244      | IHTC0255CC06     | 25,5  | 30,0  |

|     |     |    |   |     |
|-----|-----|----|---|-----|
|     |     |    |   |     |
| 154 | 156 | 38 | 4 | 160 |

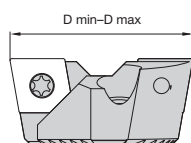


## eBore™ • TWIN CUTTER • KM™



| order number | catalogue number | BR1               | CSMS   | D2    | L1    | L1 assy | L2 assy |
|--------------|------------------|-------------------|--------|-------|-------|---------|---------|
| 6655245      | KM32TC029        | 29,0000-37,0000   | KM32TS | 25,0  | 86,0  | 100,0   | 88,0    |
| 6655247      | KM32TC036        | 36,0000-44,0000   | KM32TS | 30,0  | 86,0  | 100,0   | 79,5    |
| 6655249      | KM40TC043        | 43,0000-54,0000   | KM40TS | 36,0  | 70,0  | 90,0    | 69,0    |
| 6655271      | KM40TC053        | 53,0000-66,0000   | KM40TS | 40,0  | 70,0  | 90,1    | 90,1    |
| 6655273      | KM50TC065        | 65,0000-83,0000   | KM50TS | 50,0  | 70,0  | 90,1    | 90,1    |
| 6655275      | KM63TC082        | 82,0000-103,0000  | KM63TS | 63,0  | 70,0  | 100,1   | 100,1   |
| 6655277      | KM80TC100        | 100,0000-155,0000 | KM80TS | 80,0  | 90,0  | 120,1   | 120,1   |
| 6655280      | KM80TC150        | 150,0000-205,0000 | KM80TS | 125,0 | 120,0 | 150,1   | 150,1   |

## eBore • TWIN CUTTER • KM • INSERT HOLDER

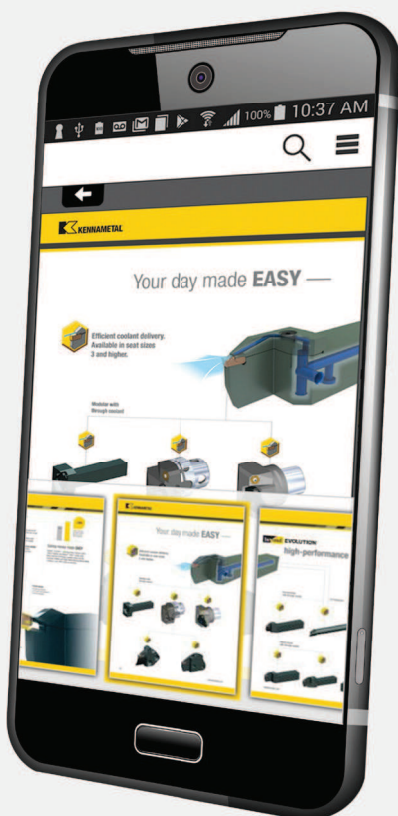


| order number | catalogue number | D min | D max |
|--------------|------------------|-------|-------|
| 6655246      | IHTC029CC09      | 29,0  | 37,0  |
| 6655248      | IHTC036CC09      | 36,0  | 44,0  |
| 6655250      | IHTC043CC12      | 43,0  | 54,0  |
| 6655272      | IHTC053CC12      | 53,0  | 66,0  |
| 6655274      | IHTC065CC12      | 65,0  | 83,0  |
| 6655276      | IHTC082CC12      | 82,0  | 103,0 |
| 6655278      | IHTC100CC12      | 100,0 | 130,0 |
| 6655279      | IHTC125CC12      | 125,0 | 155,0 |
| 6655281      | IHTC150CC12      | 150,0 | 205,0 |

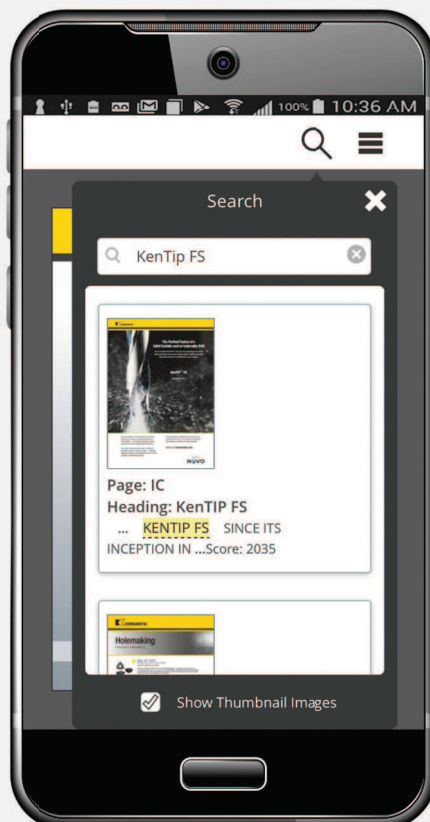
|     |     |    |   |     |
|-----|-----|----|---|-----|
|     |     |    |   |     |
| 154 | 156 | 38 | 4 | 160 |

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