

ISO13399

De volgende tabel toont ISO13399-conforme dimensionele symbolen.

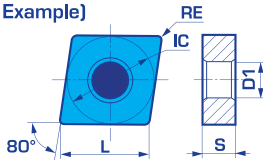
Inhoud die overeenkomt met de voorbeeldsymbolen/notaties wordt hieronder weergegeven.

Diagrammen van gereedschapsvormen en voorraadgrafieken maken gebruik van de symbolen en voorbeeldnotaties uit de onderstaande tabel.

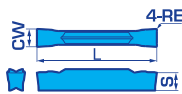
(1) Inserts (For Turning / For Milling)

| Symbol | Description |
|--------|---------------------------|
| AN | Clearance angle major |
| APMX | Depth of cut maximum |
| BS | Wiper edge length |
| CDX | Cutting depth maximum |
| CHW | Corner chamfer width |
| CW | Cutting width |
| D1 | Fixing hole diameter |
| DMIN | Minimum bore diameter |
| IC | Inscribed circle diameter |
| INSL | Insert length |
| L | Cutting edge length |
| PDX | Profile distance ex |
| PDY | Profile distance ey |
| PNA | Profile included angle |
| RE | Corner radius |
| RER | Right side corner radius |
| REL | Left side corner radius |
| S | Insert thickness |
| W1 | Insert width |
| WF | Functional width |

(Turning Insert Example)



(Grooving Insert Example)



(2) Tool Holders For Turning

| Symbol | Description |
|--------|---------------------------------------|
| APMX | Depth of cut maximum |
| B | Shank width |
| BD | Body diameter |
| COX | Cutting depth maximum |
| CRKS | Connection retention knob thread size |
| DC | Cutting diameter |
| DCB | Connection bore diameter |
| OCON | Connection diameter |
| DCSFMS | Contact surface diameter machine side |
| DMIN | Minimum bore diameter |
| DMM | Shank diameter |
| DN | Neck diameter |
| GAMF | Rake angle radial |
| GAMP | Rake angle axial |
| H | Shank height |
| HBH | Head bottom offset height |
| HBKL | Head back offset length |
| HBKW | Head back offset width |
| HBL | Head bottom offset length |
| HF | Functional height |
| KDP | Groove depth |
| KWW | Keyway width |
| LF | Functional length |
| LH | Head length |
| LHD | Head length |
| LS | Shank length |
| LSCX | Clamping length maximum |
| LU | Usable length |
| LUX | Usable length maximum |
| WF | Functional width |

(External Holder Example)

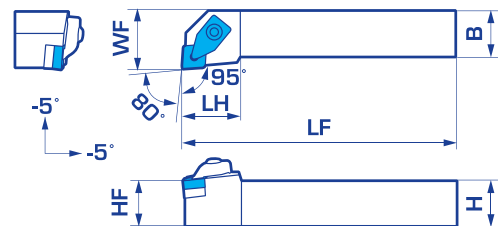
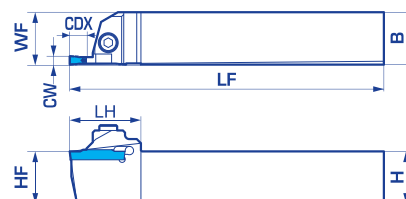


Figure shows right-handed tool.

(Grooving Tool Holder Example)



Notes: The symbols in the above table are compliant with ISO13399 and do not include symbols unique to our company. As symbols under review are not included, these may change over time.

(3) Cutters / Indexable Endmills

| Symbol | Description |
|--------|---|
| APMX | Depth Of Cut Maximum |
| BO | Body Diameter |
| BOX | Body Diameter Maximum |
| CBDP | Connection Bore Depth |
| CRKS | Connection Retention Knob Thread Size |
| CW | Cutting Width |
| DBC | Connection Bore Diameter |
| DC | Cutting Diameter |
| DCB | Clamping Diameter: Nominal. on Workpiece Side |
| OCON | Connection Diameter |
| DCSFMS | Contact Surface Diameter Machine Side |
| DCX | Cutting Diameter Maximum |
| DMM | Shank Diameter |
| ON | Neck Diameter |
| H | Shank Height |
| KDP | Groove Depth |
| KWW | Keyway Width |
| LBX | Body Length Maximum |
| LF | Functional Length |
| LH | Head Length |
| LS | Shank Length |
| LU | Usable Length |
| OAL | Overall Length |
| RMPX | Maximum Ramping Angle |
| THUB | Hub Thickness |

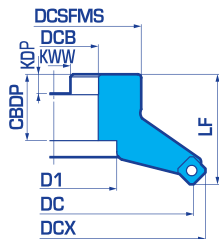
(4) Endmills

| Symbol | Description |
|--------|-----------------------------|
| APMX | Depth Of Cut Maximum |
| CHW | Corner Chamfer Width |
| DC | Cutting Diameter |
| DMM | Shank Diameter |
| DN | Neck Diameter |
| LF | Functional Length |
| LFS | Functional Length Secondary |
| LU | Usable Length |
| RE | Corner Radius |

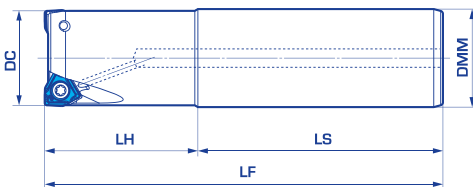
(5) Drills / Reamers

| Symbol | Description |
|--------|--|
| BD | Body Diameter |
| BOX | Body Diameter Maximum |
| CW | Cutting Width |
| DC | Cutting Diameter |
| DCB | Clamping Diameter: Nominal.on Workpiece Side |
| OCON | Connection Diameter |
| DCSFMS | Contact Surface Diameter Machine Side |
| DF | Flange Diameter |
| DMM | Shank Diameter |
| LBX | Body Length Maximum |
| LCF | Length Chip Flute |
| LF | Functional Length |
| LFA | A Dimension On Lf |
| LFS | Functional Length Secondary |
| LH | Head Length |
| LPR | Protruding Length |
| LS | Shank Length |
| LU | Usable Length |
| LUX | Usable Length Maximum |
| OAL | Overall Length |
| PL | Point Length |
| WBTHK | Web Thickness |

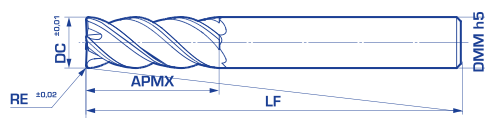
(Shell Type Example)



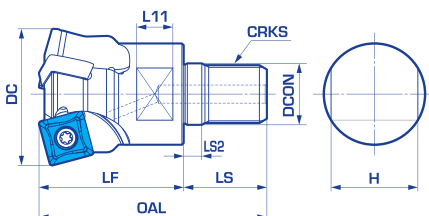
(Shank Type Example)



(Endmill Example)



(Modular Type Example)



(Drill Example)

