# DV Shank Tools

## Kennametal Standard Catalog Number System



### Toolholder Style

| | | |
|---|---|---|
| TG | = | Tremendous Grip Single Angle collet chuck |
| ER | = | DIN 6499 Single Angle collet chuck |
| DA | = | Double Angle collet chuck |
| REX | = | drill chuck |
| EM | = | end mill adapter |
| WN | = | Whistle Notch (2°, metric; 5°, inch) |
| SM | = | shell mill adapter |
| SC | = | slotting cutter adapter |
| TT | = | Shrink Fit Thermo toolholder |
| SD | = | Powergrip chucks (inch) |
| SS | = | Powergrip chucks (metric) |
| CS | = | combi shell mill adapter |
| HC | = | hydraulic chuck – STANDARD line |
| HCT | = | hydraulic chuck – TREND line |
| HCB | = | hydraulic chuck – BASIC line |
| HSK | = | HSK adapter |
| KM | = | KM adapter |
| RC | = | rapid change – T&C tapping adapter chuck |
| STRC | = | rapid change – solid tapping adapter chuck |
| KR | = | Kennametal / Romicron® adapter |
| BB | = | bar blank |
| GB | = | gage bar |
| P | = | spindle plug |

### Shank Taper Size

40 = 40
50 = 50

### Tool Length

(flange face to front of tool)
metric – xxx = xxx,
inch – xxx = x.xx

| DV | 40 | B | TG | 50 | 100 | M |
|---|---|---|---|---|---|---|
| Shank Style | | DIN Form | | Toolholder Size | | Identification Values |

### DIN Form

B = form B
(blank) = tool built to form A

### Toolholder Size

examples:
TG = collet series xx (50), xxx (100)
EM = ID size
metric – xx = xx, (20)
inch – xxx = x.xx (075)
SM = OD size
metric – xx = xx, (20)
inch – xxx = x.xx (075)

### Identification Values

M = tool built to Metric values
(blank) = tool built to Inch values

# DV Shank Tools

- Meets or exceeds DIN69871 specifications and all current standard updates.
- The 7/24 shank cones are produced to the highest industry standards, per ISO-1947. With a taper accuracy of AT3 or better, an optimum fit between spindle and toolholder is provided.
- Essential surfaces are not black-oxided which provides better fitments.
- All non-critical surfaces are black-oxided, except for the high-performance toolholders.
- Wherever the toolholder design allows, through coolant is a standard feature.
- Depending on application and symmetry of toolholder assembly (toolholder, components, retention knob, collets, cutting tools, etc.) DV40 and DV50 toolholders will perform effectively up to 10,000 rpm before the complete toolholder assembly needs to be balanced. At speeds above 10,000 rpm, Kennametal recommends that the toolholder assembly be balanced.

**IMPORTANT!**

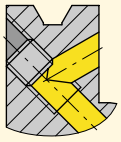
- All critical surfaces must be protected from damage. Neglect from dings and scratches will impair accuracy and performance.
- Components must be clean at assembly. Never overtighten the components, this can permanently destroy the function and accuracy of the toolholder.

For retention knobs, please see page S316.

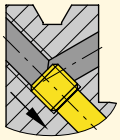
**Form B coolant**

Some toolholders are equipped with the form B coolant-style feature.

**CAUTION!**

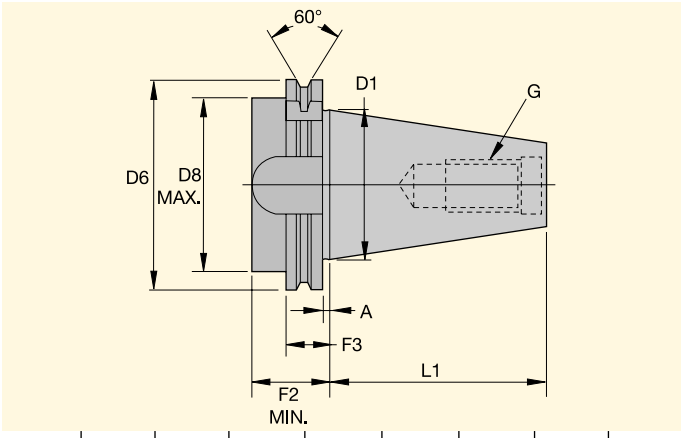


*Toolholders are factory set to the form B coolant supply position. When relocating coolant position screws, use of a removable liquid (small screw thread locker) is recommended.*



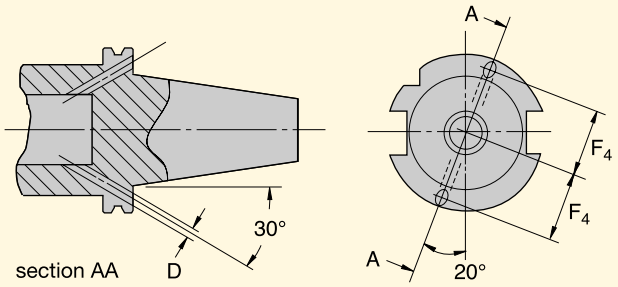
*Possible variation of coolant supply to DIN 69871 form AD; tightening screws will stop coolant from escaping through the flange.*

## DIN 69871
## DV Form A




| | D1 | D6 | D8 max. | L1 | F2 min. | F3 | A | G |
|---|---|---|---|---|---|---|---|---|
| 30 | 1.250 (31,75) | 1.967 (49,95) | 1.772 (45,00) | 1.876 (47,65) | 1.378 (35,00) | .750 (19,05) | .126 (3,20) | M12 thread |
| 40 | 1.750 (44,45) | 2.480 (63,00) | 1.969 (50,00) | 2.687 (68,25) | 1.378 (35,00) | .750 (19,05) | .126 (3,20) | M16 thread |
| 45 | 2.250 (57,15) | 3.228 (82,00) | 2.480 (63,00) | 3.250 (82,55) | 1.378 (35,00) | .750 (19,05) | .126 (3,20) | M20 thread |
| 50 | 2.750 (69,85) | 3.837 (97,45) | 3.150 (80,00) | 4.000 (101,60) | 1.378 (35,00) | .750 (19,05) | .126 (3,20) | M24 thread |

## DIN 69871
## DV Form B – Flange Coolant Entry Ports




| | D | F4 ±.004 |
|---|---|---|
| 30 | .157 (4,00) | .827 (21,00) |
| 40 | .157 (4,00) | 1.063 (27,00) |
| 45 | .197 (5,00) | 1.378 (35,00) |
| 50 | .236 (6,00) | 1.654 (42,00) |