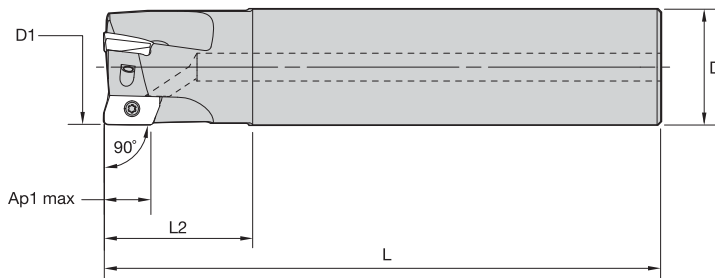
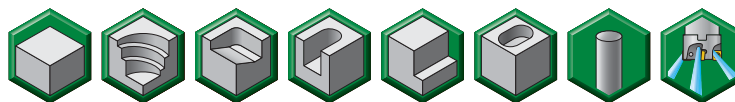


# Victory™ Shoulder Mills • VSM11™ Series

## Cylindrical End Mills



- True 90° capability.
- Increased ramping capability.
- Superior wall and surface finish.
- Effective internal coolant feature, precisely reaching the cutting edge.



Shoulder Mills

### ■ Cylindrical End Mills

| order number | catalogue number        | D1 | D  | L   | L2 | Ap1 max | Z | max ramp angle | coolant supply | max RPM | kg   |
|--------------|-------------------------|----|----|-----|----|---------|---|----------------|----------------|---------|------|
| 5416632      | VSM11D012Z01A16XD11L100 | 12 | 16 | 100 | 25 | 11,7    | 1 | 3.7°           | Yes            | 53100   | 0,13 |
| 5416633      | VSM11D016Z02A16XD11L100 | 16 | 16 | 100 | 31 | 11,5    | 2 | 10.0°          | Yes            | 41400   | 0,12 |
| 5416634      | VSM11D020Z02A20XD11L110 | 20 | 20 | 110 | 31 | 11,6    | 2 | 7.8°           | Yes            | 35100   | 0,22 |
| 5416635      | VSM11D020Z03A20XD11L110 | 20 | 20 | 110 | 31 | 11,6    | 3 | 7.8°           | Yes            | 35100   | 0,23 |
| 5416636      | VSM11D025Z03A25XD11L120 | 25 | 25 | 120 | 33 | 11,5    | 3 | 5.3°           | Yes            | 30200   | 0,39 |
| 5416637      | VSM11D025Z04A25XD11L120 | 25 | 25 | 120 | 33 | 11,5    | 4 | 5.3°           | Yes            | 30200   | 0,40 |
| 5416638      | VSM11D032Z03A32XD11L130 | 32 | 32 | 130 | 41 | 11,4    | 3 | 3.6°           | Yes            | 25800   | 0,70 |
| 5416639      | VSM11D032Z05A32XD11L130 | 32 | 32 | 130 | 41 | 11,4    | 5 | 3.6°           | Yes            | 25800   | 0,71 |

### ■ Spare Parts



insert screw

192.432



Nm

1,0



wrench

170.028

NOTE: Standard milling cutters will accept insert nose radii up to 1,6mm without modification.  
For tool body modification instructions, see page J16.