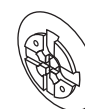


Shoulder Mills

■ Shell Mills

| order number | catalogue number    | D1  | D  | D6  | L  | Ap1 max | Z  | max ramp angle | coolant supply | max RPM | kg   |
|--------------|---------------------|-----|----|-----|----|---------|----|----------------|----------------|---------|------|
| 5988094      | VSM17D040Z04S16XD17 | 40  | 16 | 37  | 40 | 16,2    | 4  | 4.0            | Yes            | 29800   | 0,19 |
| 5988095      | VSM17D050Z04S22XD17 | 50  | 22 | 45  | 40 | 16,1    | 4  | 3.0            | Yes            | 25800   | 0,28 |
| 5988096      | VSM17D050Z05S22XD17 | 50  | 22 | 45  | 40 | 16,1    | 5  | 3.0            | Yes            | 25800   | 0,29 |
| 5988134      | VSM17D050Z06S22XD17 | 50  | 22 | 45  | 40 | 16,1    | 6  | 3.0            | Yes            | 25800   | 0,28 |
| 5988097      | VSM17D063Z05S22XD17 | 63  | 22 | 50  | 40 | 16,0    | 5  | 2.1            | Yes            | 22400   | 0,45 |
| 5988135      | VSM17D063Z06S22XD17 | 63  | 22 | 50  | 40 | 16,0    | 6  | 2.1            | Yes            | 22400   | 0,45 |
| 5988098      | VSM17D080Z06S27XD17 | 80  | 27 | 60  | 50 | 15,9    | 6  | 1.6            | Yes            | 19500   | 0,98 |
| 5988133      | VSM17D080Z07S27XD17 | 80  | 27 | 60  | 50 | 15,9    | 7  | 1.6            | Yes            | 19500   | 0,96 |
| 5988099      | VSM17D100Z08S32XD17 | 100 | 32 | 80  | 50 | 15,8    | 8  | 1.2            | Yes            | 17200   | 1,63 |
| 5988100      | VSM17D125Z09S40XD17 | 125 | 40 | 90  | 63 | 15,7    | 9  | 0.9            | Yes            | 15200   | 2,94 |
| 5988101      | VSM17D160Z12S40XD17 | 160 | 40 | 100 | 63 | 15,6    | 12 | 0.7            | Yes            | 13300   | 3,66 |

■ Spare Parts



| D1    | insert screw | Nm  | wrench  | socket-head cap screw | socket-head cap screw with coolant groove | coolant lock screw assembly | coolant lock screw | coolant cap |
|-------|--------------|-----|---------|-----------------------|---|-----------------------------|--------------------|-------------|
| 40,0  | 191.725      | 3,5 | 170.025 | MS1294                | MS1294CG                                  | -                           | -                  | -           |
| 50,0  | 191.725      | 3,5 | 170.025 | MS1234                | MS1294CG                                  | -                           | -                  | -           |
| 50,0  | 191.725      | 3,5 | 170.025 | MS1234                | MS1234CG                                  | -                           | -                  | -           |
| 63,0  | 191.725      | 3,5 | 170.025 | MS1234                | MS1234CG                                  | -                           | -                  | -           |
| 80,0  | 191.725      | 3,5 | 170.025 | MS2038                | MS2038CG                                  | -                           | -                  | -           |
| 100,0 | 191.725      | 3,5 | 170.025 | -                     | -   | MS2195C                     | -                  | -           |
| 125,0 | 191.725      | 3,5 | 170.025 | -                     | -   | MS2187C                     | -                  | -           |
| 160,0 | 191.725      | 3,5 | 170.025 | -                     | -   | -                           | 12146107000        | 12146111100 |

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