


**ITEM: A0040**
**Geometry** Advanced flute design, web thinning, with concave cutting-edge geometry, self-centering point geometry

**Point angle** 140°

**Surface treatment** Devil

**Application** Machining of long and short chip materials such as structural and case hardening steel, ferritic cast iron, heat treated steel and alloy steel with  $R \leq 1,200 \text{ N/mm}^2$ , as well as carbon steel, bronze, cast iron and AISi alloys with high silicon content.


|       |       |        |       |       |        |       |       |          |          |                 |                |         |     |      |      |
|-------|-------|--------|-------|-------|--------|-------|-------|----------|----------|-----------------|----------------|---------|-----|------|------|
| < 500 | < 850 | < 1200 | < 600 | < 850 | Duplex | < 240 | < 300 | < 10% Si | > 10% Si | Brass<br>Copper | Bronze<br>>700 | Ti6Al4V | HTA | < 45 | < 60 |
| ●     | ●     | ●      | ○     | ○     | ○      | ●     | ●     | ○        | ○        | ○               | ○              | ○       | ○   | ●    | ○    |

On request available with Weldon shank at a cost of € 2.

Cylindrical shank (A0040....) Weldon shank (A0040....W)

**DRILL DIN 6537**

| A0040     | Tech. Code |       | D<br>mm | d<br>mm | l<br>mm | L<br>mm | l1<br>mm |  | A0040 | Tech. Code |    | D<br>mm | d<br>mm | l<br>mm | L<br>mm | l1<br>mm |  |
|-----------|------------|-------|---------|---------|---------|---------|----------|-------------------------------------------------------------------------------------|-------|------------|----|---------|---------|---------|---------|----------|-------------------------------------------------------------------------------------|
| 5 x D     | A00401     |       | 1.00    | 4       | 6       | 45      | 6        | 1                                                                                   | 5 x D | A00406,6   |    | 6.60    | 8       | 53      | 91      | 43       | 1                                                                                   |
|           | A00401,1   |       | 1.10    |         | 7,5     |         | 7        |                                                                                     |       | 8          |    |         |         |         |         |          |                                                                                     |
|           | A00401,2   |       | 1.20    |         | 8,5     |         |          |                                                                                     |       |            | 9  |         |         |         |         |          |                                                                                     |
|           | A00401,3   |       | 1.30    |         | 9       |         |          |                                                                                     |       |            |    | 10      |         |         |         |          |                                                                                     |
|           | A00401,4   |       | 1.40    |         | 10      | 11      |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00401,5   |       | 1.50    |         | 8       |         | 50       |                                                                                     |       | 9          |    |         |         |         |         |          |                                                                                     |
|           | A00401,6   |       | 1.60    |         | 11      |         |          |                                                                                     |       |            | 10 |         |         |         |         |          |                                                                                     |
|           | A00401,7   |       | 1.70    |         | 12      |         |          |                                                                                     |       |            |    | 11      |         |         |         |          |                                                                                     |
|           | A00401,8   |       | 1.80    |         | 12,5    | 55      |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00401,85  |       | 1.85    |         | 13,5    |         | 14       |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00401,9   |       | 1.90    |         | 11      |         |          |                                                                                     |       | 15         |    |         |         |         |         |          |                                                                                     |
|           | A00402     |       | 2.00    |         | 12      |         |          |                                                                                     |       |            | 16 |         |         |         |         |          |                                                                                     |
|           | A00402,1   |       | 2.10    |         | 13      | 23      |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00402,2   |       | 2.20    |         | 14      |         | 66       |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00402,3   |       | 2.30    |         | 15      |         |          |                                                                                     |       | 74         |    |         |         |         |         |          |                                                                                     |
|           | A00402,4   |       | 2.40    |         | 16      |         |          |                                                                                     |       |            | 29 |         |         |         |         |          |                                                                                     |
|           | A00402,5   |       | 2.50    |         | 6       | 36      |          |                                                                                     |       |            |    | 74      | 29      |         |         |          |                                                                                     |
|           | A00402,6   |       | 2.60    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00402,7   |       | 2.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00402,8   |       | 2.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00402,9   |       | 2.90    | 6       | 28      | 66      | 23       |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403     |       | 3.00    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,1   |       | 3.10    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,2   |       | 3.20    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,3   |       | 3.30    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,4   |       | 3.40    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,5   |       | 3.50    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,6   |       | 3.60    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,7   |       | 3.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,8   |       | 3.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00403,9   |       | 3.90    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,0   |       | 4.00    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,1   |       | 4.10    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,2   |       | 4.20    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,3   |       | 4.30    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,4   |       | 4.40    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,5   |       | 4.50    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,6   |       | 4.60    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,7   |       | 4.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,8   |       | 4.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00404,9   |       | 4.90    |         | 44      | 82      | 35       |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405     |       | 5.00    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,1   |       | 5.10    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,2   |       | 5.20    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,3   |       | 5.30    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,4   |       | 5.40    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,5   |       | 5.50    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,6   |       | 5.60    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,7   |       | 5.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,8   |       | 5.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00405,9   |       | 5.90    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406     |       | 6.00    | 8       | 53      | 91      | 43       |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,1   |       | 6.10    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,2   |       | 6.20    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,3   |       | 6.30    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,4   |       | 6.40    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,5   |       | 6.50    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| 5 x D     | A00406,6   |       | 6.60    | 16      | 83      | 133     | 63       |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,7   |       | 6.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,8   |       | 6.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00406,9   |       | 6.90    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407     |       | 7.00    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,1   |       | 7.10    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,2   |       | 7.20    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,3   |       | 7.30    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,4   |       | 7.40    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,5   |       | 7.50    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,6   |       | 7.60    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,7   |       | 7.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,8   |       | 7.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00407,9   |       | 7.90    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408     |       | 8.00    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,1   |       | 8.10    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,2   |       | 8.20    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,3   |       | 8.30    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,4   |       | 8.40    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,5   |       | 8.50    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,6   |       | 8.60    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,7   |       | 8.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,8   |       | 8.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00408,9   |       | 8.90    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409     |       | 9.00    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,1   |       | 9.10    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,2   |       | 9.20    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,3   |       | 9.30    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,4   |       | 9.40    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,5   |       | 9.50    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,6   |       | 9.60    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,7   |       | 9.70    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
|           | A00409,8   |       | 9.80    |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A00409,9  |            | 9.90  |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004010   |            | 10.00 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004010,2 |            | 10.20 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004010,3 |            | 10.30 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004010,4 |            | 10.40 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004010,5 |            | 10.50 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004011   |            | 11.00 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004011,2 |            | 11.20 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004011,3 |            | 11,3  |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004011,4 |            | 11,4  |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004011,5 |            | 11.50 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004011,8 |            | 11.80 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004012   |            | 12.00 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004012,2 |            | 12.20 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004012,5 |            | 12.50 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004012,8 |            | 12,80 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004012,9 |            | 12,9  |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004013   |            | 13.00 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004013,1 |            | 13,1  |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004013,3 |            | 13,3  |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004013,5 |            | 13.50 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004014   |            | 14.00 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004014,5 |            | 14.50 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |
| A004015   |            | 15.00 |         |         |         |         |          |                                                                                     |       |            |    |         |         |         |         |          |                                                                                     |