

## Carbide drawing dies

### Properties of grade

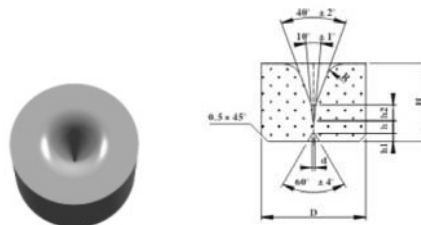
| Grade  | Density (g/cm <sup>3</sup> ) | Hardness (HRA) | TRS (MPa) | Average Grain size (μm) |
|--------|------------------------------|----------------|-----------|-------------------------|
| YL01   | 15.25                        | 93.5           | 3300      | 0.8                     |
| YL10.2 | 14.5                         | 92.0           | 4000      | 0.8                     |
| YG6    | 14.95                        | 90             | 2400      | 1.6                     |
| YG6X   | 14.95                        | 91.5           | 1900      | 1.0                     |
| YG8    | 14.75                        | 89.5           | 2800      | 1.6                     |
| YG11   | 14.4                         | 87.5           | 3100      | 1.6                     |
| YG15   | 14.05                        | 87.0           | 3000      | 1.6                     |

### Application recommended

| Grade  | Applications recommended                                                                                                                                                              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YL01   | Used for drawing diameter less than 1.5 mm of steel, tungsten and molybdenum wire under high speed drawing as well as nonferrous metals with high requirement on surface finish.      |
| YL10.2 | Used for drawing diameter between 1.5 mm to 10mm of steel, tungsten and molybdenum wire under high speed drawing as well as nonferrous tubes with high requirement on surface finish. |
| YG6    | Used for drawing the diameter less than 20mm of steel, nonferrous metals and its alloy wire or bar under a moderate stress. It also used for tubes less than diameter of 10mm.        |
| YG6X   | Used for drawing the steel wire, nonferrous metals and its alloy wire or bar under the requirement of good wear resistant.                                                            |
| YG8    | Used for drawing diameter less than 50 mm of steel, nonferrous and its alloy wire or bar under a moderate stress. It also used for tubes under 35mm.                                  |
| YG11   | Used for drawing diameter less than 60 mm of steel, nonferrous and its alloy wire or bar under a moderate stress. It also used for tubes under 35mm.                                  |
| YG15   | Used for steel pipe and steel bar as well as alloy steel bolt and head forging of rivet under a certain big stress                                                                    |

Types as following are: type 01, type 10, type 11, S11, type 12, type 13, S13, type 21, type 22, type 23, type 30, type 31, type 40, type41, type42, type60, R-2, R-4, R-5, R-6, R-7, R-8(9,10) , type V , type W, Type W (B), type WTA.

Type 01 – carbide drawing die nibs for drawing ferrous and non-ferrous metal wires



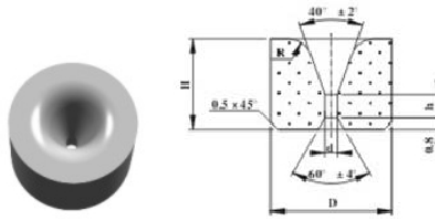
| Type | D | H | Range of d | h   |
|------|---|---|------------|-----|
| 01-  | 6 | 4 | 0.2-0.8    | 0.8 |
|      | 8 | 6 | 1.0        | 1.0 |

Type10 – carbide drawing die nibs for drawing ferrous and non-ferrous metal wires

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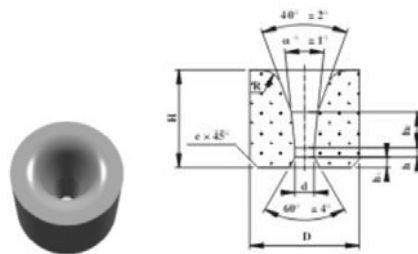
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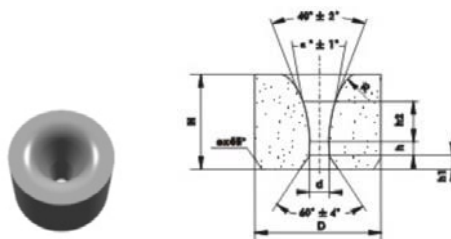
| Type | D | H | Range of d | h       |
|------|---|---|------------|---------|
| 10-  | 6 | 4 | 0.4-0.8    | 0.8-1.2 |
|      | 8 | 6 | 0.2-0.8    | 1.0-1.5 |

Type 11 –carbide drawing die nibs for drawing ferrous and non-ferrous metal wires



| Type | D  | H  | Range of d | h  | $\alpha^\circ$ |
|------|----|----|------------|----|----------------|
| 11-  | 8  | 8  | 8          | 8  | 10°            |
|      | 13 | 13 | 13         | 13 | 10°            |
|      | 16 | 16 | 16         | 16 | 12°            |
|      | 22 | 22 | 22         | 22 | 14°            |
|      | 30 | 30 | 30         | 30 | 14°            |

Type S11–carbide drawing die nibs with large reducing angles for drawing ferrous metal wires.



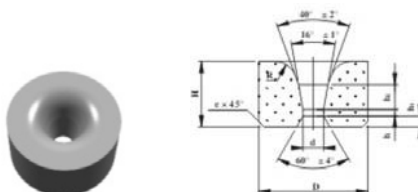
| Type | D  | H  | Range of d | h       | $\alpha^\circ$ |
|------|----|----|------------|---------|----------------|
| S11- | 8  | 6  | 0.3-1.0    | 0.3-1.0 | 14°            |
|      | 10 | 8  | 0.7        | 0.7     | 14°            |
|      | 13 | 10 | 0.4-2.8    | 0.4-2.8 | 16°            |
|      | 15 | 13 | 0.5-3.0    | 0.5-3.0 | 16°            |
|      | 16 | 14 | 0.4-3.8    | 0.4-3.8 | 16°            |
|      | 20 | 17 | 1.2-4.7    | 1.2-4.7 | 18°            |
|      | 21 | 17 | 1.8-5.7    | 1.8-5.7 | 18°            |
|      | 22 | 18 | 1.7-6.4    | 1.7-6.4 | 18°            |

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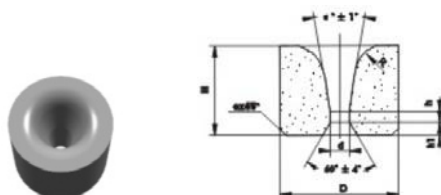
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**Type 12—carbide drawing die nibs for drawing non-ferrous metal wires and rods**



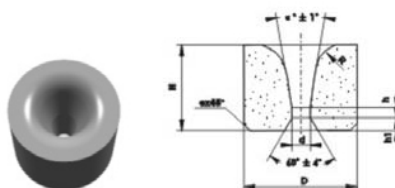
| Type | D  | H  | d       | h       |
|------|----|----|---------|---------|
| 12-  | 8  | 6  | 0.4-0.8 | 0.3-0.6 |
|      | 13 | 8  | 0.4-2.3 | 0.3-1.0 |
|      | 16 | 10 | 0.8-3.0 | 0.5-1.2 |
|      | 20 | 12 | 1.0-5.0 | 1.0-1.4 |
|      | 22 | 14 | 4.2-5.7 | 1.6-2.0 |
|      | 26 | 16 | 6.4-8.0 | 2.0     |
|      | 28 | 14 | 2.6-4.6 | 1.3-2.5 |

**Type 13—carbide drawing die nibs for drawing non-ferrous metal rods**



| Type | D   | H  | d         | h       | $\alpha^\circ$ |
|------|-----|----|-----------|---------|----------------|
| 13-  | 30  | 21 | 3.7-9.6   | 1.5-4.0 | 14°            |
|      | 40  | 24 | 9.0       | 6       |                |
|      | 40  | 25 | 10.5-15.5 | 5       |                |
|      | 50  | 28 | 16.5-24.5 | 5.5-6   |                |
|      | 60  | 35 | 25.5-34.5 | 7-7.5   | 18°            |
|      | 75  | 35 | 35.5-43.5 | 8       |                |
|      | 90  | 35 | 45-47     | 9       | 20°            |
|      | 110 | 40 | 59-69     | 10-11   |                |
|      | 140 | 50 | 71-81.5   | 12      |                |

**Type S13—Carbide drawing dies nibs with large reducing angles for drawing ferrous and non-ferrous metal wires**



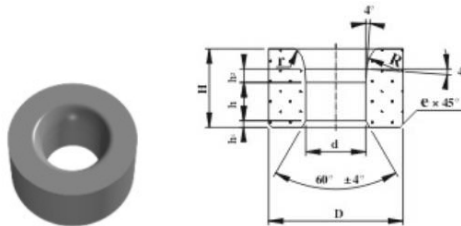
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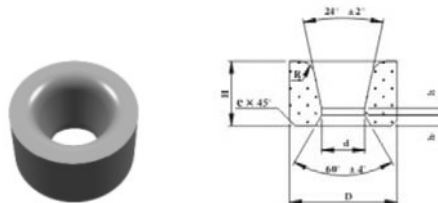
| Type | D   | H  | d         | h       | $\alpha^\circ$ |
|------|-----|----|-----------|---------|----------------|
| S13- | 25  | 18 | 5.8       | 2.5     | 20°            |
|      | 28  | 19 | 6.0-10.9  | 3-5     |                |
|      | 27  | 18 | 4.7-6.7   | 2.5     |                |
|      | 28  | 20 | 3.7-9.6   | 2.5     |                |
|      | 30  | 21 | 2.8-12.0  | 2.5-3.5 |                |
|      | 35  | 24 | 9.6-12.0  | 5       |                |
|      | 28  | 24 | 9.6-15.5  | 5       |                |
|      | 40  | 25 | 9.0-15.5  | 5       |                |
|      | 40  | 28 | 10.3      | 6       |                |
|      | 50  | 28 | 16.5-24.5 | 5.5-6   |                |
|      | 60  | 35 | 25.5-34.5 | 7       |                |
|      | 75  | 35 | 35.5-45.5 | 8       |                |
|      | 90  | 35 | 45-57     | 9-10    |                |
|      | 110 | 40 | 59-69     | 10-11   | 22°            |
|      | 140 | 50 | 71-84     | 12      |                |

Type 21- Wall thickness reducing carbide die nibs for drawing metal tubes.



| Type | D   | H   | d         | h  |
|------|-----|-----|-----------|----|
| 21-  | 50  | 50  | 20.0-24.0 | 17 |
|      | 60  | 60  | 26.0-30.0 |    |
|      | 70  | 70  | 32.0-40.0 |    |
|      | 80  | 80  | 42.0-46.0 | 20 |
|      | 90  | 90  | 48.-54.0  |    |
|      | 100 | 100 | 58.0-62.0 |    |

Type 22- Carbide drawing die nibs for drawing non-ferrous metal tubes



| Type | D  | H  | d         | h   |
|------|----|----|-----------|-----|
| 22-  | 20 | 13 | 2.8-5.7   | 1.5 |
|      | 30 | 18 | 6.7-13.5  | 2-4 |
|      | 35 | 18 | 14.5-17.5 | 4   |
|      | 45 | 24 | 12.5-13.5 | 3   |
|      | 50 | 25 | 24.5-30.5 | 5-6 |

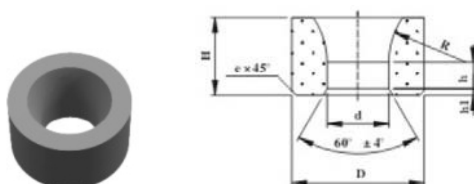
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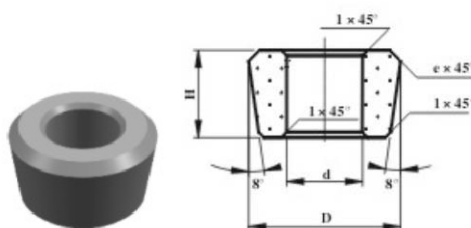
|  |     |    |           |     |
|--|-----|----|-----------|-----|
|  | 60  | 30 | 24.5-33.5 | 3.5 |
|  | 65  | 32 | 34.5-39.5 | 6   |
|  | 70  | 35 | 34.5-35.5 | 6.5 |
|  | 75  | 35 | 40.5-42.5 | 6.5 |
|  | 85  | 40 | 47.5      | 6.5 |
|  | 80  | 35 | 34.5-47   | 6.5 |
|  | 90  | 40 | 46-53     | 6.5 |
|  | 100 | 40 | 55-57     | 6.5 |
|  | 120 | 45 | 59-67     | 6.5 |
|  | 130 | 50 | 69-77     | 6.5 |
|  | 140 | 50 | 79-88     | 6.5 |

**Type 23– Diameter and wall thickness reducing carbide die nibs for drawing metal tubes.**



| Type | D   | H   | d   | h  |
|------|-----|-----|-----|----|
| 23-  | 50  | 50  | 50  | 12 |
|      | 60  | 60  | 60  |    |
|      | 70  | 70  | 70  |    |
|      | 75  | 75  | 75  | 15 |
|      | 85  | 85  | 85  |    |
|      | 100 | 100 | 100 |    |
|      | 110 | 110 | 110 | 18 |
|      | 125 | 125 | 125 |    |

**Type 30– Carbide floating plugs for drawing metal tubes**



| Type | D  | H  | d         | e   |
|------|----|----|-----------|-----|
| 30-  | 4  | 10 | 11        | 1   |
|      | 6  | 12 | 13,15     | 1   |
|      | 8  | 12 | 17        | 1   |
|      | 10 | 14 | 19.5,21.5 | 1   |
|      | 12 | 16 | 23.5      | 1   |
|      | 14 | 16 | 25.5,27.5 | 1-2 |
|      | 17 | 27 | 28-37     | 2   |
|      | 19 | 27 | 38.2,39.4 | 2   |
|      | 21 | 27 | 40-43     | 3   |

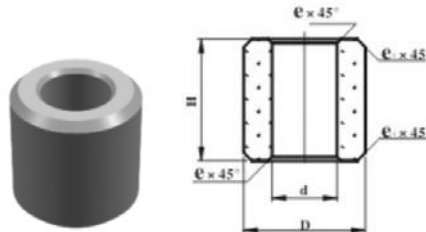
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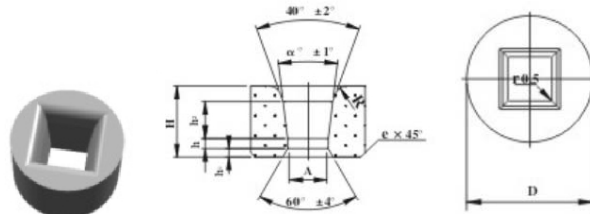
|  |    |    |       |     |
|--|----|----|-------|-----|
|  | 23 | 32 | 44-46 | 3-4 |
|  | 25 | 32 | 47-53 | 4   |
|  | 27 | 32 | 54-57 | 4   |
|  | 28 | 35 | 58-64 | 4   |

**Type 31- Carbide floating plugs for drawing metal tubes**



| Type | D    | H  | d         |
|------|------|----|-----------|
| 31-  | 7    | 25 | 14.0-16.0 |
|      | 8    | 25 | 17.0-18.0 |
|      | 10   | 30 | 19.0-22.0 |
|      | 12   | 30 | 23.0-27.0 |
|      | 16   | 35 | 28.0-32.0 |
|      | 20   | 35 | 33.0-42.0 |
|      | 22   | 40 | 43.0-44.0 |
|      | 26.5 | 45 | 45.0-47.0 |

**Type 40- Carbide drawing nibs for drawing square metal bars.**



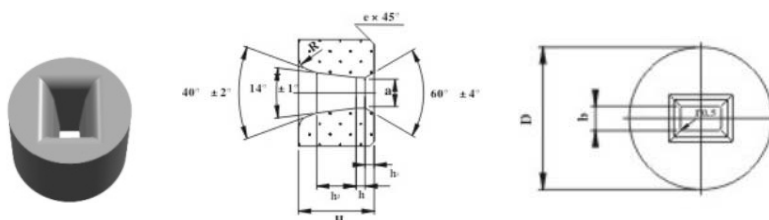
| Type | D   | H  | Range of A | h   | $\alpha^\circ$ |
|------|-----|----|------------|-----|----------------|
| 40-  | 16  | 12 | 1.8-2.4    | 1   | 14°            |
|      | 22  | 18 | 2.8-4.0    | 1.5 |                |
|      | 30  | 21 | 4.6-4.7    | 2   |                |
|      | 35  | 25 | 7.7-9.7    | 3   |                |
|      | 45  | 25 | 10.7-14.7  | 3.5 |                |
|      | 50  | 28 | 15.7-18.7  | 4   |                |
|      | 60  | 30 | 19.7-23.7  | 5   | 16°            |
|      | 65  | 32 | 24.7-27.5  | 6   |                |
|      | 70  | 35 | 28.5-31.5  | 8   | 20°            |
|      | 80  | 35 | 32.5-37.5  |     |                |
|      | 90  | 40 | 38.5-41.5  |     |                |
|      | 100 | 40 | 42.5-47.5  |     |                |
|      | 129 | 45 | 49.5-53.5  |     |                |

**Type 41- Carbide drawing dies nibs for drawing rectangular non-ferrous metal bars.**

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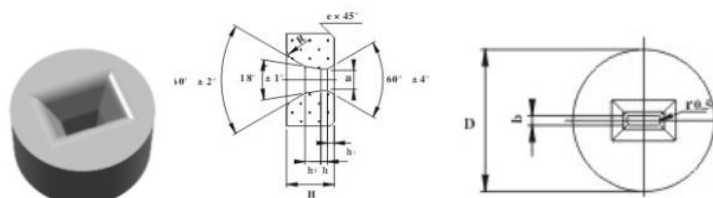
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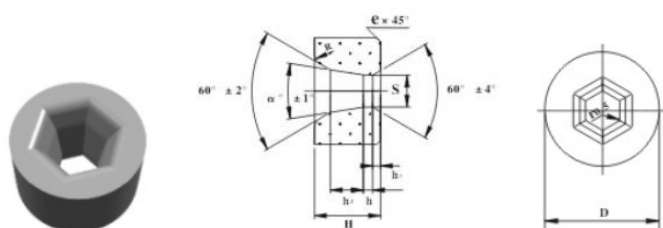
| Type | D  | H  | Range of a | Range of b | h   |
|------|----|----|------------|------------|-----|
| 41-  | 30 | 21 | 6.7        | 4.7        | 2   |
|      | 35 | 25 | 7.7-9.7    | 5.7-7.7    | 3   |
|      | 45 | 25 | 11.7       | 5.7-9.7    | 3.5 |
|      | 50 | 28 | 13.7-17.6  | 6.7-15.7   | 4   |
|      | 60 | 30 | 19.2-23.6  | 7.7-14.7   | 5   |

Type 42- Carbide drawing dies nibs for drawing non-ferrous metal strips.



| Type | D  | H  | Range of a | Range of b | h   |
|------|----|----|------------|------------|-----|
| 42-  | 20 | 12 | 1.9-3.1    | 0.6-1.9    | 2   |
|      | 25 | 15 | 3.9-6.2    | 1.0-3.9    | 2.5 |
|      | 35 | 18 | 7.2-11.4   | 1.1-6.3    | 2.5 |
|      | 45 | 20 | 12.8-14.6  | 1.4-5.9    | 3   |
|      | 50 | 20 | 16.5-23.2  | 1.9-6.3    | 3   |
|      | 60 | 20 | 24.5-31.0  | 1.0-3.8    | 3   |

Type 60- Carbide drawing dies nibs for drawing hexagonal ferrous metal bars



| Type | D   | H  | Range of S | h     | α°  |
|------|-----|----|------------|-------|-----|
| 60-  | 30  | 21 | 2.5-7.7    | 1.5-2 | 14° |
|      | 35  | 21 | 8.6-10.6   | 3     |     |
|      | 40  | 25 | 11.5-12.5  | 3.5   |     |
|      | 45  | 25 | 13.5-18.5  | 4     |     |
|      | 55  | 28 | 19.5-23.5  | 5     |     |
|      | 65  | 30 | 24.5-28.5  | 6     | 16° |
|      | 75  | 35 | 29.5-37.3  | 7     |     |
|      | 90  | 35 | 38.0-49.0  | 7     |     |
|      | 100 | 40 | 52.0-57.5  | 8     |     |
|      | 120 | 42 | 59.5-74.5  | 8     |     |

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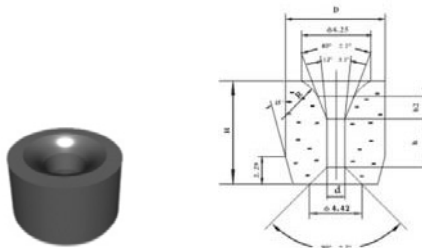
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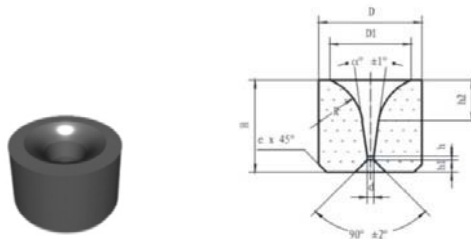
Dimensions for h, h1, h2 and (a, b) are to be agreed upon by the seller and the buyer

**Type R -2**



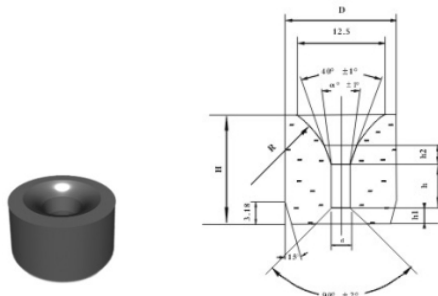
| Type  | D   | H    | d         | h         | $\alpha^\circ$ |
|-------|-----|------|-----------|-----------|----------------|
| R-2-d | 8.5 | 8.64 | 0.51-2.54 | 1.93-4.39 | 12             |

**Type R -4**



| Type    | D    | H    | d       | h       | $\alpha^\circ$ |
|---------|------|------|---------|---------|----------------|
| R4-d-12 | 12.7 | 11.4 | 1.9-4.6 | 0.5-1.6 | 12             |
| R4-d-16 | 12.7 | 11.4 | 0.3-4.6 | 0.5-1.8 | 16             |

**Type R -5**



| Type   | D    | H    | d         | h        | $\alpha^\circ$ |
|--------|------|------|-----------|----------|----------------|
| R-5 -d | 16.1 | 15.5 | 0.76-6.86 | 3.05-9.3 | 12             |



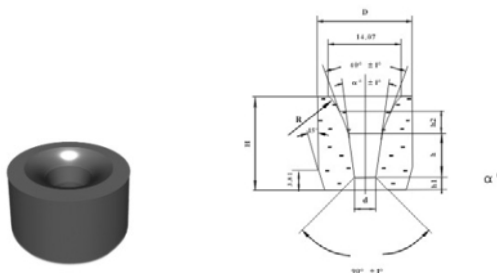
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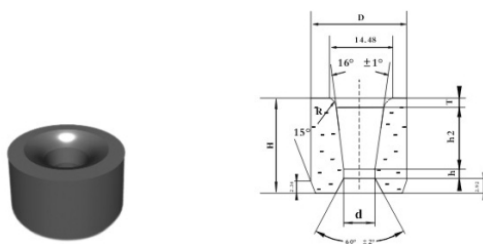
|  |  |  |           |          |    |
|--|--|--|-----------|----------|----|
|  |  |  | 0.76-3.56 | 3.05-6.9 | 16 |
|--|--|--|-----------|----------|----|

**Type R -6**



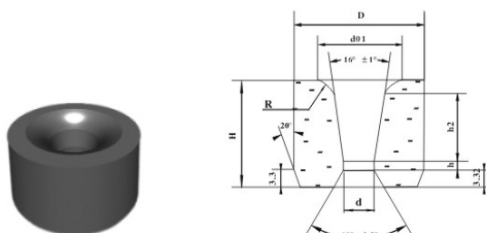
| Type   | D    | H    | d         | h         | α° |
|--------|------|------|-----------|-----------|----|
| R-6 -d | 18.3 | 18.1 | 2.03-9.14 | 5.08-13.9 | 16 |
|        | 18.0 | 17.7 | 1.3-6.3   | 1.0-2.0   | 12 |

**Type R -7**



| Type   | D    | H    | d          | h       |
|--------|------|------|------------|---------|
| R-7 -d | 19.8 | 19.5 | 6.35-10.67 | 1.9-3.2 |

**Type R -8 (9, 10)**



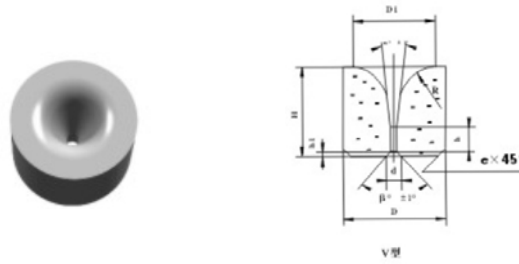
| Type    | D    | H  | d           | h         |
|---------|------|----|-------------|-----------|
| R-8 -d  | 25.6 | 21 | 6.1-12.7    | 1.83-3.81 |
| R-9 -d  | 30.4 | 21 | 10.16-16.51 | 3.05-4.95 |
| R-10 -d | 38.4 | 26 | 12.7-21.59  | 3.81-6.84 |

**Type V**

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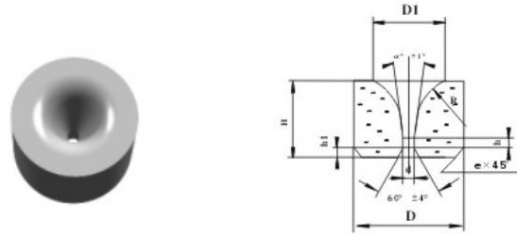
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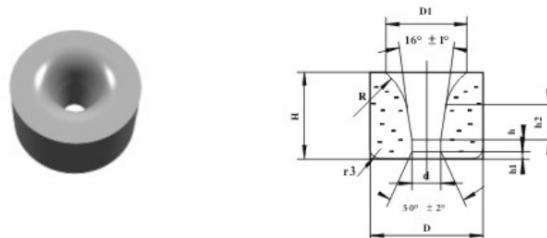


| Type | D  | H  | d        | h      | α°  |
|------|----|----|----------|--------|-----|
| V-   | 15 | 13 | 0.6-3.6  | 3-5.5  | 12° |
|      | 19 | 17 | 1.8-6.5  | 6-7    | 14° |
|      | 25 | 20 | 5.7-7.7  | 7-8    | 14° |
|      | 35 | 21 | 8.2-11.5 | 8-10.5 | 14° |

Type W



| Type   | D  | H  | d         | h       | α°      |
|--------|----|----|-----------|---------|---------|
| W102-d | 9  | 6  | 0.4-1.3   | 0.4-0.7 | 12°     |
| W103-d | 12 | 8  | 0.2-2.7   | 0.5-1.4 | 1°      |
| W104-d | 15 | 10 | 0.5-5.0   | 0.5-2.0 | 14°     |
| W105-d | 20 | 14 | 1.0-5     | 0.8-2.0 | 14°-16° |
| W106-d | 25 | 18 | 5.3-8.0   | 1.9-2.2 | 16°     |
| W107-d | 30 | 22 | 2.9-11.7  | 2.2-3.6 | 16°     |
| W108-d | 35 | 25 | 6.0-1.0   | 2.5-4.8 | 16°     |
| W109-d | 40 | 27 | 10.3-16.5 | 3.2-4.6 | 18°     |
| W110-d | 50 | 30 | 14.4-19.4 | 4.4-4.8 | 18°     |
| W111-d | 60 | 35 | 18.5-27   | 4.8-5.6 | 18°     |
| W112-d | 70 | 40 | 24.5-31.5 | 5.4-6.0 | 18°     |



Type W (β)

| Type | D | H | d | h |
|------|---|---|---|---|
|------|---|---|---|---|

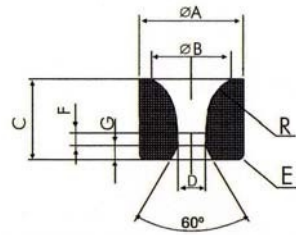
株洲瑞奥硬质合金有限公司

**ZHUZHOU RUIAO TUNGSTEN CARBIDE CO.,LTD**

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|                  |    |    |      |     |
|------------------|----|----|------|-----|
| W107-d-D $\beta$ | 30 | 23 | 7.5  | 3.2 |
| W108-d-D $\beta$ | 35 | 26 | 19.0 | 3.8 |
| W109-d-D $\beta$ | 40 | 28 | 12.3 | 5   |
| W110-d-D $\beta$ | 50 | 30 | 15.3 | 45. |
| W111-d-D $\beta$ | 60 | 36 | 21   | 6   |

**Type WTA**



| Type   | A     | B     | C     | D     | E       | F     | G     | R     |
|--------|-------|-------|-------|-------|---------|-------|-------|-------|
| WTA001 | 30.00 | 23.00 | 24.00 | 08.00 | 1.0×45° | 04.00 | 04.00 | 10.00 |
| WTA002 | 30.00 | 23.00 | 24.00 | 09.00 | 1.0×45° | 04.00 | 04.00 | 10.00 |
| WTA003 | 30.00 | 23.00 | 24.00 | 10.00 | 1.0×45° | 04.00 | 04.00 | 10.00 |
| WTA004 | 30.00 | 23.00 | 24.00 | 11.00 | 1.0×45° | 04.00 | 04.00 | 10.00 |
| WTA005 | 30.00 | 23.00 | 24.00 | 12.00 | 1.0×45° | 04.00 | 04.00 | 10.00 |
| WTA006 | 35.00 | 26.00 | 25.00 | 10.00 | 1.0×45° | 04.00 | 04.00 | 12.00 |
| WTA007 | 35.00 | 26.00 | 25.00 | 11.00 | 1.0×45° | 04.00 | 04.00 | 12.00 |
| WTA008 | 35.00 | 26.00 | 25.00 | 12.00 | 1.0×45° | 04.00 | 04.00 | 12.00 |
| WTA009 | 35.00 | 26.00 | 25.00 | 13.00 | 1.0×45° | 04.00 | 04.00 | 12.00 |
| WTA010 | 35.00 | 26.00 | 25.00 | 14.00 | 1.0×45° | 04.00 | 04.00 | 12.00 |
| WTA011 | 35.00 | 26.00 | 25.00 | 15.00 | 1.0×45° | 04.00 | 04.00 | 12.00 |
| WTA012 | 40.00 | 32.00 | 28.00 | 12.50 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA013 | 40.00 | 32.00 | 28.00 | 14.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA014 | 40.00 | 32.00 | 28.00 | 15.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA015 | 40.00 | 32.00 | 28.00 | 16.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA016 | 45.00 | 37.00 | 28.00 | 15.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA017 | 45.00 | 37.00 | 28.00 | 17.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA018 | 45.00 | 37.00 | 28.00 | 18.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA019 | 45.00 | 37.00 | 28.00 | 19.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA020 | 45.00 | 37.00 | 28.00 | 20.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA021 | 50.00 | 40.00 | 30.00 | 21.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA022 | 50.00 | 40.00 | 30.00 | 22.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA023 | 50.00 | 40.00 | 30.00 | 24.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA024 | 55.00 | 45.00 | 30.00 | 25.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA025 | 55.00 | 45.00 | 30.00 | 27.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA026 | 55.00 | 45.00 | 30.00 | 28.50 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA027 | 55.00 | 45.00 | 30.00 | 30.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA028 | 60.00 | 45.00 | 30.00 | 30.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA029 | 60.00 | 45.00 | 30.00 | 33.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA030 | 65.00 | 50.00 | 30.00 | 34.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA031 | 65.00 | 50.00 | 30.00 | 36.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA032 | 65.00 | 50.00 | 30.00 | 38.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA033 | 70.00 | 55.00 | 30.00 | 38.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |

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|        |        |        |       |       |         |       |       |       |
|--------|--------|--------|-------|-------|---------|-------|-------|-------|
| WTA034 | 70.00  | 55.00  | 30.00 | 40.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA035 | 75.00  | 60.00  | 30.00 | 42.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA036 | 75.00  | 60.00  | 30.00 | 44.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA037 | 80.00  | 65.00  | 30.00 | 46.50 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA038 | 80.00  | 65.00  | 30.00 | 48.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA039 | 85.00  | 70.00  | 30.00 | 50.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA040 | 85.00  | 70.00  | 30.00 | 52.00 | 2.0×45° | 06.00 | 05.00 | 12.00 |
| WTA041 | 90.00  | 75.00  | 32.00 | 53.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA042 | 90.00  | 75.00  | 32.00 | 55.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA043 | 95.00  | 80.00  | 32.00 | 57.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA044 | 95.00  | 80.00  | 32.00 | 60.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA045 | 100.00 | 85.00  | 35.00 | 64.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA046 | 100.00 | 85.00  | 35.00 | 66.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA047 | 110.00 | 95.00  | 35.00 | 70.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA048 | 110.00 | 95.00  | 35.00 | 73.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA049 | 120.00 | 105.00 | 35.00 | 76.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |
| WTA050 | 120.00 | 105.00 | 35.00 | 78.00 | 2.0×45° | 07.00 | 05.00 | 12.00 |

All dimensions in (mm)

Note: We also produce special carbide drawing die s upon the drawings. Welcome your New Inquiry.

