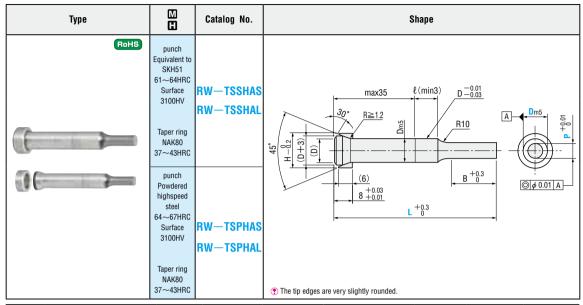
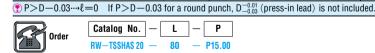
TAPERED HEAD PUNCHES

-RW COATING-





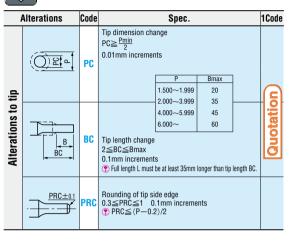
| Catalog No. | | L | | | | | 0.01mm increments | В | Н |
|------------------------|----|----|----|----|----|-------------|----------------------------|----|----|
| Туре | D | _ | | | | min. P max. | | 11 | |
| RW-TSSHAS RW-TSPHAS | 8 | 60 | 70 | 80 | 90 | 100 | 3.00 ∼ 7.99 | 13 | 13 |
| | 10 | 60 | 70 | 80 | 90 | 100 | 3.00 ~ 9.99 | | 15 |
| | 13 | 60 | 70 | 80 | 90 | 100 | 6.00 ∼ 12.99 | | 18 |
| | 16 | 60 | 70 | 80 | 90 | 100 | 10.00 ~ 15.99 | | 21 |
| | 20 | 60 | 70 | 80 | 90 | 100 | 13.00 ~ 19.99 | 19 | 25 |
| | 25 | 60 | 70 | 80 | 90 | 100 | 18.00 ~ 24.99 | | 30 |
| RW-TSSHAL RW-TSPHAL | 8 | 60 | 70 | 80 | 90 | 100 | 3.00 ~ 7.99 | 19 | 13 |
| | 10 | 60 | 70 | 80 | 90 | 100 | 3.00 ~ 9.99 | | 15 |
| | 13 | 60 | 70 | 80 | 90 | 100 | 6.00 ∼ 12.99 | | 18 |
| | 16 | 60 | 70 | 80 | 90 | 100 | 10.00 ~ 15.99 | | 21 |
| | 20 | 60 | 70 | 80 | 90 | 100 | 13.00 ~ 19.99 | 25 | 25 |
| | 25 | 60 | 70 | 80 | 90 | 100 | 18.00 ~ 24.99 | | 30 |

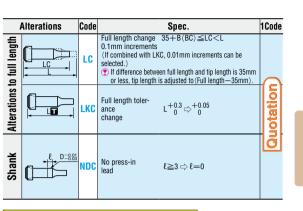












■Effects of RW coating

BC13

Effective for press processing of ultra-high-tensile material and thick plate high-tensile material thanks to its superior wear resistance, peeling resistance and heat resistance. See the product data for details. **PEP.1607**

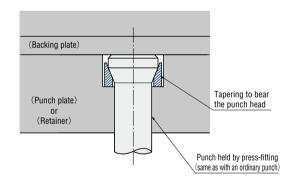


■ Features

- Tapered head punches relieve stress concentration, providing greater head strength than conventional heavyload punches.
- These products were developed for heavy-load applications, such as punching of high-tensile steel sheets with tensile strength of 980MPa (100kgf/mm²) or higher, spring steel, and hardened steel.
- When used with the accessory taper rings, the tapered head punches eliminate the need for machining of tapered holes in the punch plates and for machining to align the thickness of the plate and punch head.
- Because the head of a tapered head punch is interchangeable with that of a heavy-load punch, the retainer for a heavy-load punch can be used.
- Guide to tapered head punches P.1611

Note

- The head thickness tolerance of a tapered head punch, $8^{+0.03}_{+0.01}$, is achieved by machining a match between the actual individual punch and its taper ring. Be sure to use a taper ring that has the same ID number as the punch. If the punch is combined with a tapered ring that has a different ID number, the head thickness may deviate from the tolerance listed in the catalog.
- When a punch is replaced, replace both punch and taper ring as a set. (The punch and taper ring are not sold individually.)



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