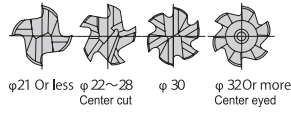




เอ็นมิลล์

ROUGHING END MILL HQS



Short



Ø6 ~ Ø12 : 0 ~ -0.1
Ø13 ~ Ø16 : 0 ~ -0.15
Ø17 ~ Ø50 : 0 ~ -0.2



Ds ≤ 6 : 0 ~ -0.008
6 < Ds ≤ 10 : 0 ~ -0.009
10 < Ds ≤ 18 : 0 ~ -0.011
18 < Ds ≤ 30 : 0 ~ -0.013
30 < Ds : 0 ~ -0.016

(mm)

| Order No. | Stock | Size (mm) | | | | No. of Flutes |
|-----------|-------|-----------|--------------|----------------|------------|---------------|
| | | Tool Dia. | Flute Length | Overall Length | Shank Dia. | |
| HQS6 | ● | 6 | 15 | 80 | 6 | 4 |
| HQS7 | ● | 7 | 20 | 90 | 8 | 4 |
| HQS8 | ● | 8 | 20 | 90 | 8 | 4 |
| HQS9 | ● | 9 | 25 | 100 | 10 | 4 |
| HQS10 | ● | 10 | 25 | 100 | 10 | 4 |
| HQS11 | ● | 11 | 30 | 110 | 12 | 4 |
| HQS12 | ● | 12 | 30 | 110 | 12 | 4 |
| HQS13 | ● | 13 | 30 | 110 | 12 | 4 |
| HQS14 | ● | 14 | 30 | 110 | 12 | 4 |
| HQS15 | ● | 15 | 30 | 110 | 12 | 4 |
| HQS16 | ● | 16 | 35 | 125 | 16 | 4 |
| HQS17 | ● | 17 | 35 | 125 | 16 | 4 |
| HQS18 | ● | 18 | 35 | 125 | 16 | 4 |
| HQS19 | ● | 19 | 40 | 140 | 16 | 4 |

● : Stocked Items.

| Order No. | Stock | Size (mm) | | | | No. of Flutes |
|-----------|-------|-----------|--------------|----------------|------------|---------------|
| | | Tool Dia. | Flute Length | Overall Length | Shank Dia. | |
| HQS20 | ● | 20 | 40 | 140 | 20 | 4 |
| HQS21 | ● | 21 | 40 | 140 | 20 | 4 |
| HQS22 | ● | 22 | 40 | 140 | 20 | 5 |
| HQS23 | ● | 23 | 45 | 160 | 20 | 5 |
| HQS24 | ● | 24 | 45 | 160 | 25 | 5 |
| HQS25 | ● | 25 | 45 | 160 | 25 | 5 |
| HQS26 | ● | 26 | 45 | 160 | 25 | 5 |
| HQS28 | ● | 28 | 45 | 160 | 25 | 5 |
| HQS30 | ● | 30 | 45 | 160 | 25 | 6 |
| HQS32 | ● | 32 | 55 | 180 | 32 | 6 |
| HQS35 | ● | 35 | 55 | 180 | 32 | 6 |
| HQS40 | ● | 40 | 65 | 200 | 32 | 6 |
| HQS50 | ● | 50 | 75 | 225 | 42 | 6 |

DEEP SERIES

เอ็นมิลล์ตระกูลดัด

CBN END MILL

CBN เอ็นมิลล์

Carbide Endmill

เอ็นมิลล์คาร์ไบด์

HSS Endmill

เอ็นมิลล์ไฮสปีด

Ball

หัวบอล

Radius

หัวทังคัม R

Square

หัวตัด

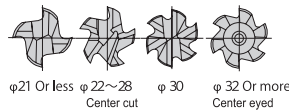
Taper Ball

หัวเตเปอร์บอล

Roughing

เอ็นมิลล์

ROUGHING END MILL HQR



Regular



Ø6 ~ Ø12 : 0 ~ -0.1
Ø13 ~ Ø16 : 0 ~ -0.15
Ø17 ~ Ø50 : 0 ~ -0.2



Ds ≤ 6 : 0 ~ -0.008
6 < Ds ≤ 10 : 0 ~ -0.009
10 < Ds ≤ 18 : 0 ~ -0.011
18 < Ds ≤ 30 : 0 ~ -0.013
30 < Ds : 0 ~ -0.016

(mm)

| Order No. | Stock | Size (mm) | | | | No. of Flutes |
|-----------|-------|-----------|--------------|----------------|------------|---------------|
| | | Tool Dia. | Flute Length | Overall Length | Shank Dia. | |
| HQR6 | ● | 6 | 20 | 80 | 6 | 4 |
| HQR7 | ● | 7 | 25 | 90 | 8 | 4 |
| HQR8 | ● | 8 | 25 | 90 | 8 | 4 |
| HQR9 | ● | 9 | 35 | 100 | 10 | 4 |
| HQR10 | ● | 10 | 35 | 100 | 10 | 4 |
| HQR11 | ● | 11 | 40 | 110 | 12 | 4 |
| HQR12 | ● | 12 | 40 | 110 | 12 | 4 |
| HQR13 | ● | 13 | 40 | 110 | 12 | 4 |
| HQR14 | ● | 14 | 40 | 110 | 12 | 4 |
| HQR15 | ● | 15 | 40 | 110 | 12 | 4 |
| HQR16 | ● | 16 | 50 | 125 | 16 | 4 |
| HQR17 | ● | 17 | 50 | 125 | 16 | 4 |
| HQR18 | ● | 18 | 50 | 125 | 16 | 4 |
| HQR19 | ● | 19 | 55 | 140 | 16 | 4 |

● : Stocked Items.

| Order No. | Stock | Size (mm) | | | | No. of Flutes |
|-----------|-------|-----------|--------------|----------------|------------|---------------|
| | | Tool Dia. | Flute Length | Overall Length | Shank Dia. | |
| HQR20 | ● | 20 | 55 | 140 | 20 | 4 |
| HQR21 | ● | 21 | 55 | 140 | 20 | 4 |
| HQR22 | ● | 22 | 55 | 140 | 20 | 5 |
| HQR23 | ● | 23 | 70 | 160 | 20 | 5 |
| HQR24 | ● | 24 | 70 | 160 | 25 | 5 |
| HQR25 | ● | 25 | 70 | 160 | 25 | 5 |
| HQR26 | ● | 26 | 70 | 160 | 25 | 5 |
| HQR28 | ● | 28 | 75 | 160 | 25 | 5 |
| HQR30 | ● | 30 | 80 | 160 | 25 | 6 |
| HQR32 | ● | 32 | 80 | 180 | 32 | 6 |
| HQR35 | ● | 35 | 90 | 180 | 32 | 6 |
| HQR40 | ● | 40 | 100 | 200 | 32 | 6 |
| HQR45 | ● | 45 | 110 | 200 | 42 | 6 |
| HQR50 | ● | 50 | 120 | 225 | 42 | 6 |

Designed by JSR GROUP

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