

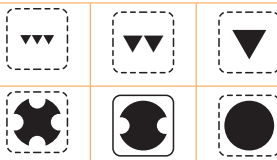
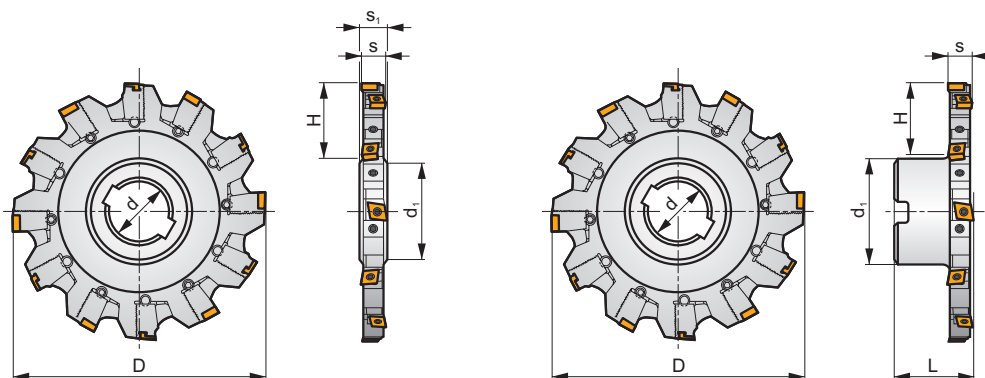
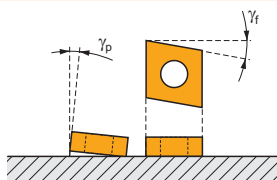
S90CN(XN)

P M K N S H

S



κ_r 90°
 a_{pmax} 14,0 - 30,5 mm



h_m 0,07 - 0,09
 h_m 0,07 - 0,09



| ISO | D | L | d | d ₁ | H | s | s ₁ | γ_f° | γ_p° | $\frac{x}{1}$ | | | | | | | | | | | | | | | | | | |
|--------------------|-----|----|----|----------------|-----|-------------|----------------|------------------|------------------|---------------|----|---|------|---|-------|-------|-------|-------|---|---|---|---|---|---|---|---|---|---|
| 125H04N-S90CN10N18 | 125 | - | 40 | 56 | 34 | 14,0 ÷ 18,5 | 18 | -10 | +4 | 4 | 8 | - | 7800 | - | 1,50 | GI195 | DI051 | - | - | - | - | - | - | - | - | - | - | - |
| 160H06N-S90CN10N18 | 160 | - | 40 | 56 | 50 | 14,0 ÷ 18,5 | 18 | -8 | +4 | 6 | 12 | - | 6900 | - | 1,80 | GI195 | DI052 | - | - | - | - | - | - | - | - | - | - | - |
| 160H05N-S90CN12N24 | 160 | - | 40 | 56 | 50 | 19,0 ÷ 24,3 | 24 | -8 | +5 | 5 | 10 | - | 5200 | - | 2,50 | GI196 | DI056 | - | - | - | - | - | - | - | - | - | - | - |
| 200J07N-S90CN10N18 | 200 | - | 50 | 71 | 60 | 14,0 ÷ 18,5 | 18 | -8 | +4 | 7 | 14 | - | 6100 | - | 2,85 | GI195 | DI053 | - | - | - | - | - | - | - | - | - | - | - |
| 200J06N-S90CN12N24 | 200 | - | 50 | 71 | 60 | 19,0 ÷ 24,3 | 24 | -8 | +5 | 6 | 12 | - | 4700 | - | 3,60 | GI196 | DI057 | - | - | - | - | - | - | - | - | - | - | - |
| 200J06N-S90CN16N30 | 200 | - | 50 | 71 | 60 | 24,5 ÷ 30,5 | 30 | -9 | +5 | 6 | 12 | - | 4000 | - | 6,00 | GI197 | DI060 | - | - | - | - | - | - | - | - | - | - | - |
| 250J09N-S90CN10N18 | 250 | - | 50 | 71 | 85 | 14,0 ÷ 18,5 | 18 | -8 | +4 | 9 | 18 | - | 5500 | - | 5,30 | GI195 | DI054 | - | - | - | - | - | - | - | - | - | - | - |
| 250J08N-S90CN12N24 | 250 | - | 50 | 71 | 85 | 19,0 ÷ 24,3 | 24 | -8 | +5 | 8 | 16 | - | 4200 | - | 7,50 | GI196 | DI058 | - | - | - | - | - | - | - | - | - | - | - |
| 250J08N-S90CN16N30 | 250 | - | 50 | 71 | 85 | 24,5 ÷ 30,5 | 30 | -8 | +5 | 8 | 16 | - | 3600 | - | 8,00 | GI197 | DI061 | - | - | - | - | - | - | - | - | - | - | - |
| 315J12N-S90CN10N18 | 315 | - | 50 | 71 | 110 | 14,0 ÷ 18,5 | 18 | -8 | +4 | 12 | 24 | - | 4900 | - | 7,80 | GI195 | DI055 | - | - | - | - | - | - | - | - | - | - | - |
| 315J10N-S90CN12N24 | 315 | - | 50 | 71 | 110 | 19,0 ÷ 24,3 | 24 | -8 | +5 | 10 | 20 | - | 3700 | - | 11,00 | GI196 | DI059 | - | - | - | - | - | - | - | - | - | - | - |
| 315K10N-S90CN16N30 | 315 | - | 60 | 85 | 110 | 24,5 ÷ 30,5 | 30 | -8 | +5 | 10 | 20 | - | 3200 | - | 13,00 | GI197 | DI062 | - | - | - | - | - | - | - | - | - | - | - |
| 125B04R-S90CN10N18 | 125 | 50 | 40 | 70 | 25 | 14,0 ÷ 18,5 | - | -10 | +4 | 4 | 8 | - | 7800 | - | 1,65 | GI195 | DI071 | AC003 | - | - | - | - | - | - | - | - | - | - |
| 160B06R-S90CN10N18 | 160 | 50 | 40 | 70 | 44 | 14,0 ÷ 18,5 | - | -8 | +5 | 6 | 12 | - | 6900 | - | 2,55 | GI195 | DI072 | - | - | - | - | - | - | - | - | - | - | - |
| 160B05R-S90CN12N24 | 160 | 50 | 40 | 70 | 44 | 19,0 ÷ 24,3 | - | -8 | +5 | 5 | 10 | - | 5200 | - | 2,90 | GI196 | DI074 | - | - | - | - | - | - | - | - | - | - | - |
| 200C06R-S90CN12N24 | 200 | 50 | 40 | 90 | 52 | 19,0 ÷ 24,3 | - | -8 | +5 | 6 | 12 | - | 6100 | - | 4,70 | GI196 | DI075 | - | - | - | - | - | - | - | - | - | - | - |
| 200C06R-S90CN16N30 | 200 | 50 | 60 | 130 | 34 | 24,5 ÷ 30,5 | - | -9 | +5 | 6 | 12 | - | 4700 | - | 5,95 | GI197 | DI076 | - | - | - | - | - | - | - | - | - | - | |
| 200C07R-S90CN10N18 | 200 | 50 | 40 | 90 | 52 | 14,0 ÷ 18,5 | - | -8 | +4 | 7 | 14 | - | 6100 | - | 4,05 | GI195 | DI073 | - | - | - | - | - | - | - | - | - | - | |



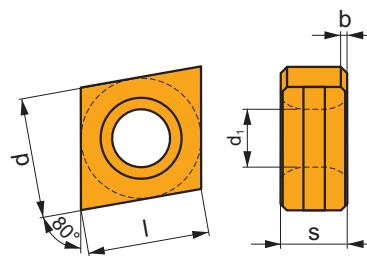
| | |
|-------|-------------|
| GI195 | CNHQ 1005.. |
| GI196 | XNHQ 1205.. |
| GI197 | XNHQ 1606.. |

| | | | | | | | | | | | | | | |
|-------|-----------------|--------------|--------------|---------|----------|---------|--------------|---------|--------------|-----|-----|----|----------|-------|
| | | | | | | | | | | | | | | |
| DI051 | 125H04N-S-14-08 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI052 | 160H06N-S-14-12 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI053 | 200J07N-S-14-14 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI054 | 250J09N-S-14-18 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI055 | 315J12N-S-14-24 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI056 | 160H05N-S-19-10 | KL-1924-XN12 | KR-1924-XN12 | KS 617M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI057 | 200J06N-S-19-12 | KL-1924-XN12 | KR-1924-XN12 | KS 617M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI058 | 250J08N-S-19-16 | KL-1924-XN12 | KR-1924-XN12 | KS 617M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI059 | 315J10N-S-19-20 | KL-1924-XN12 | KR-1924-XN12 | KS 617M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI060 | 200J06N-S-25-12 | KL-2530-XN16 | KR-2530-XN16 | KS 623M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI061 | 250J08N-S-25-16 | KL-2530-XN16 | KR-2530-XN16 | KS 623M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI062 | 315K10N-S-25-20 | KL-2530-XN16 | KR-2530-XN16 | KS 623M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI071 | 125B04R-S-14-08 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI072 | 160B06R-S-14-12 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI073 | 200C07R-S-14-14 | KL-1418-CN10 | KR-1418-CN10 | KS 613F | DS 6018F | SDR T20 | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | - |
| DI074 | 160B05R-S-19-10 | KL-1924-XN12 | KR-1924-XN12 | KS 617M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI075 | 200C06R-S-19-12 | KL-1924-XN12 | KR-1924-XN12 | KS 617M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |
| DI076 | 200C06R-S-25-12 | KL-2530-XN16 | KR-2530-XN16 | KS 623M | DS 6500 | - | SS 6005-T09P | SDR T09 | US 4011-T15P | 3,5 | M 4 | 11 | SDR T15P | HXK 4 |

| | | |
|-------|---------|---------|
| | | |
| AC003 | KS 2040 | K.FMH40 |

CNHQ

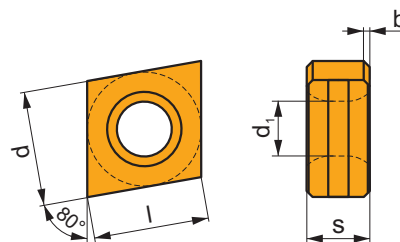
| | | | | | |
|------|-----------|-------|----------------|-------|------|
| | b | d | d ₁ | l | s |
| 1005 | 0,5 × 45° | 10,00 | 4,70 | 10,00 | 5,40 |



| | | | | | | | | | | | | | | | | |
|--|--|---------------|-------|---|---|---|---|---|---|---|-----|----------------|------------------|------------------|--------------------|--------------------|
| | | ISO | | P | M | K | N | S | H | | | r _c | f _{min} | f _{max} | a _{p min} | a _{p max} |
| | | CNHQ 1005AZTN | M8330 | ■ | ■ | ■ | □ | □ | □ | ■ | - | - | 0,10 | 0,50 | - | - |
| | | | M8340 | ■ | ■ | ■ | □ | □ | □ | ■ | +/- | - | 0,10 | 0,50 | - | - |
| | | | 8230 | ■ | ■ | ■ | □ | □ | □ | ■ | - | - | 0,10 | 0,50 | - | - |

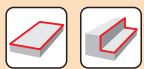
XNHQ

| | b | d | d ₁ | l | s |
|------|-----------|-------|----------------|-------|------|
| 1205 | 0,5 × 45° | 10,00 | 4,70 | 12,70 | 5,40 |
| 1606 | 0,5 × 45° | 12,00 | 5,90 | 16,00 | 6,40 |



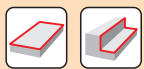
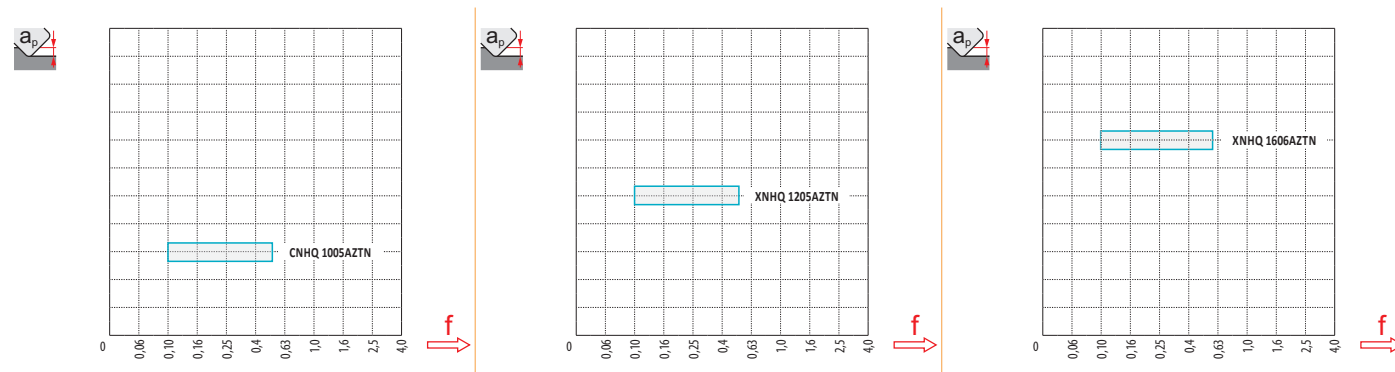
| i | | ISO | | P | M | K | N | S | H | ? | | r _c | f _{min} | f _{max} | a _{p min} | a _{p max} |
|---|--|---------------|-------|---|---|---|---|---|---|---|-----|----------------|------------------|------------------|--------------------|--------------------|
| U | | XNHQ 1205AZTN | M8330 | ■ | ■ | ■ | □ | □ | □ | ● | - | - | 0,10 | 0,50 | - | - |
| | | | M8340 | ■ | ■ | ■ | □ | □ | □ | ● | +/- | - | 0,10 | 0,50 | - | - |
| T | | XNHQ 1606AZTN | M8330 | ■ | ■ | ■ | □ | □ | □ | ● | - | - | 0,10 | 0,60 | - | - |
| | | | M8340 | ■ | ■ | ■ | □ | □ | □ | ● | +/- | - | 0,10 | 0,60 | - | - |

| ISO | | f _{min} | f _{max} | M8330 | M8340 | 8230 |
|-----|---|------------------|------------------|-------|-------|------|
| P | ● | 0,10 | 0,30 | 342 | 284 | 297 |
| | ● | 0,10 | 0,25 | 306 | 252 | 266 |
| | ✘ | 0,10 | 0,15 | 265 | 221 | 230 |
| M | ● | 0,10 | 0,25 | 194 | 167 | 176 |
| | ● | 0,10 | 0,20 | 174 | 149 | 158 |
| | ✘ | 0,10 | 0,15 | 154 | 131 | 140 |
| K | ● | 0,10 | 0,30 | 327 | 270 | 284 |
| | ● | 0,10 | 0,25 | 290 | 239 | 252 |
| | ✘ | 0,10 | 0,15 | 254 | 207 | 221 |
| N | ● | 0,10 | 0,30 | 859 | - | 747 |
| | ● | 0,10 | 0,25 | 766 | - | 666 |
| | ✘ | 0,10 | 0,15 | 668 | - | 581 |
| S | ● | 0,10 | 0,25 | 95 | 81 | 86 |
| | ● | 0,10 | 0,20 | 85 | 72 | 77 |
| | ✘ | 0,10 | 0,15 | 75 | 63 | 68 |
| H | ● | 0,10 | 0,20 | 68 | - | 59 |
| | ● | 0,10 | 0,15 | 58 | - | 50 |
| | ✘ | 0,10 | 0,12 | 52 | - | 45 |

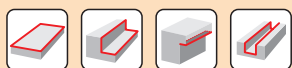


| | | | | | | | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| $\frac{a_p}{D}$ | 0,05 | 0,10 | 0,15 | 0,20 | 0,25 | 0,30 | 0,40 | 0,50 | 0,60 | 0,70 | 0,75 | 0,80 | 0,90 | 1,00 |
| $\chi.v$ | 1,48 | 1,35 | 1,27 | 1,22 | 1,19 | 1,16 | 1,11 | 1,08 | 1,05 | 1,03 | 1,00 | 1,00 | 1,00 | 1,00 |

| | CNHQ 10 | XNHQ 12 | XNHQ 16 |
|-------|---------|---------|---------|
| r_f | - | - | - |
| a | - | - | - |



| | 125 | 4 | 34 | 34 |
|--|-----|----|-----|-----|
| | 160 | 6 | 50 | 50 |
| | 200 | 7 | 60 | 60 |
| | 250 | 9 | 85 | 85 |
| | 315 | 12 | 110 | 110 |
| | 125 | 4 | 25 | 125 |
| | 160 | 6 | 44 | 160 |
| | 200 | 7 | 52 | 200 |



| a_e | 5 | | 10 | | 15 | | 20 | | 25 | | |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | |
| | 125 | 0,35 | 0,45 | 0,25 | 0,32 | 0,21 | 0,27 | 0,18 | 0,23 | 0,16 | 0,21 |
| | 160 | 0,40 | 0,51 | 0,28 | 0,36 | 0,23 | 0,30 | 0,20 | 0,26 | 0,18 | 0,23 |
| | 200 | 0,44 | 0,57 | 0,32 | 0,41 | 0,26 | 0,33 | 0,23 | 0,29 | 0,20 | 0,26 |
| | 250 | 0,50 | 0,64 | 0,35 | 0,45 | 0,29 | 0,37 | 0,25 | 0,32 | 0,23 | 0,29 |
| | 315 | 0,56 | 0,72 | 0,39 | 0,51 | 0,32 | 0,42 | 0,28 | 0,36 | 0,25 | 0,32 |
| | 125 | 0,35 | 0,45 | 0,25 | 0,32 | 0,21 | 0,27 | 0,18 | 0,23 | 0,16 | 0,21 |
| | 160 | 0,40 | 0,51 | 0,28 | 0,36 | 0,23 | 0,30 | 0,20 | 0,26 | 0,18 | 0,23 |
| | 200 | 0,44 | 0,57 | 0,32 | 0,41 | 0,26 | 0,33 | 0,23 | 0,29 | 0,20 | 0,26 |
| a_e | 32 | | 40 | | 50 | | 63 | | 80 | | |
| | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | |
| | 125 | 0,15 | 0,19 | - | - | - | - | - | - | - | - |
| | 160 | 0,16 | 0,21 | 0,15 | 0,19 | - | - | - | - | - | - |
| | 200 | 0,18 | 0,23 | 0,16 | 0,21 | 0,15 | 0,19 | - | - | - | - |
| | 250 | 0,20 | 0,26 | 0,18 | 0,23 | 0,16 | 0,21 | 0,15 | 0,19 | 0,13 | 0,17 |
| | 315 | 0,22 | 0,29 | 0,20 | 0,26 | 0,18 | 0,23 | 0,16 | 0,21 | 0,15 | 0,19 |
| | 125 | 0,15 | 0,19 | 0,13 | 0,17 | 0,12 | 0,15 | 0,11 | 0,14 | 0,10 | 0,13 |
| | 160 | 0,16 | 0,21 | 0,15 | 0,19 | 0,13 | 0,17 | 0,12 | 0,16 | 0,11 | 0,14 |
| | 200 | 0,18 | 0,23 | 0,16 | 0,21 | 0,15 | 0,19 | 0,13 | 0,17 | 0,12 | 0,15 |
| a_e | 100 | | 125 | | 160 | | 200 | | | | |
| | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | f_{min} | f_{max} | | | |
| | 125 | - | - | - | - | - | - | - | | | |
| | 160 | - | - | - | - | - | - | - | | | |
| | 200 | - | - | - | - | - | - | - | | | |
| | 250 | - | - | - | - | - | - | - | | | |
| | 315 | 0,13 | 0,17 | - | - | - | - | - | | | |
| | 125 | 0,10 | 0,12 | 0,10 | 0,11 | - | - | - | | | |
| | 160 | 0,10 | 0,13 | 0,10 | 0,12 | 0,10 | 0,11 | - | | | |
| | 200 | 0,11 | 0,14 | 0,10 | 0,13 | 0,10 | 0,12 | 0,10 | 0,11 | | |