



**Technical information**  
**Information technique**  
**Technische Auskunft**

**E02**

**Applications**  
**Applications**  
**Anwendungen**

**E03**

**Top clamp toolholders**  
.....  
.....

**E04**

**Top clamp boring bars**  
.....  
.....

**E10**

Inserts

Turning

Automatic  
lathes

Ceramic  
tools

Parting &  
grooving

Threading

Drills

Cartridges

Brazed  
tools

Milling  
cutters

Solid  
carbide

Boring  
heads

Arbors &  
adaptors

CX

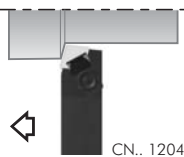


CD



Top clamp toolholders - ..... - .....

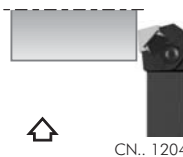
**CCBN 75°**



Page E.04

CN.. 1204..  
CN.. 1207..  
CN.. 1607..

**CCKN 75°**



Page E.04

CN.. 1204..  
CN.. 1207..  
CN.. 1607..

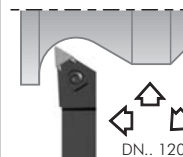
**CCLN 95°**



Page E.04

CN.. 1204..  
CN.. 1207..  
CN.. 1607..

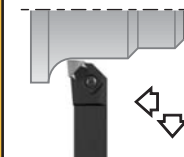
**CDJN 93°**



Page E.05

DN.. 1204..  
DN.. 1207..  
DN.. 1607..

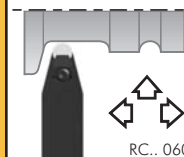
**CELN 97° 30'**



Page E.05

EN.. 1307..

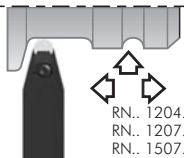
**CRDC**



Page E.05

RC.. 0607..  
RC.. 1907..

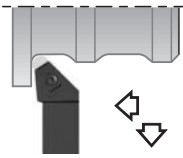
**CRDN**



Page E.06

RN.. 1204..  
RN.. 1207..  
RN.. 1507..  
RN.. 1907..  
RN.. 2507..

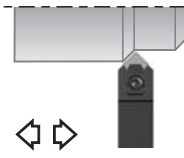
**CRSN**



Page E.06

RN.. 1204..  
RN.. 1207..

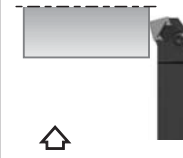
**CSDN 45°**



Page E.06

SN.. 120..  
SN.. 1507..

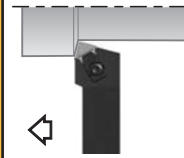
**CSKN 75°**



Page E.07

SN.. 1204..  
SN.. 1507..

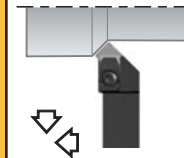
**CSRN 75°**



Page E.07

SN.. 120..  
SN.. 1507..

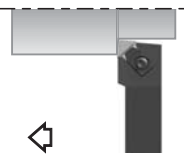
**CSSN 45°**



Page E.07

SN.. 1204..  
SN.. 1507..

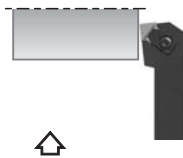
**CSXN 85°**



Page E.08

SN.. 120..  
SN.. 1507..

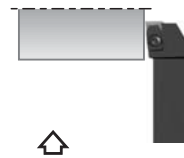
**CSYN 85°**



Page E.08

SN.. 120..  
SN.. 1507..

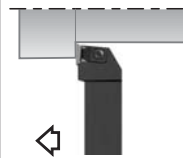
**CTFN 90°**



Page E.08

TN.. 1604..  
TN.. 1607..

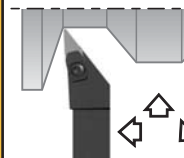
**CTGN 90°**



Page E.09

TN.. 1604..  
TN.. 1607..

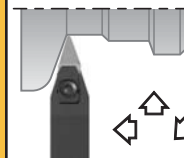
**CVJN 93°**



Page E.09

VN.. 1604..  
VN.. 1607..

**CVVN 62° 30'**

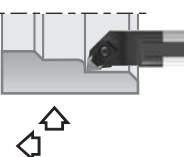


Page E.09

VN.. 1604..  
VN.. 1607..

Top clamp boring bars - ..... - .....

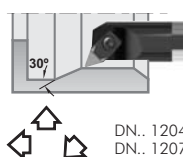
**CCLN 95°**



Page E.10

CN.. 1204..  
CN.. 1207..

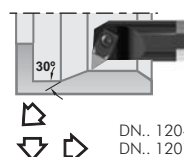
**CDQN 107° 30'**



Page E.10

DN.. 1204..  
DN.. 1207..  
DN.. 1504..  
DN.. 1507..

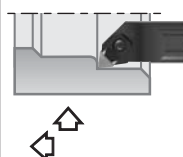
**CDUN 93°**



Page E.10

DN.. 1204..  
DN.. 1207..  
DN.. 1504..  
DN.. 1507..

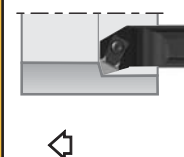
**CELN 97° 30'**



Page E.11

EN.. 1307..

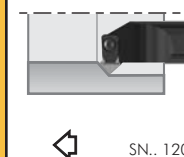
**CSKN 75°**



Page E.11

SN.. 1204..  
SN.. 1207..

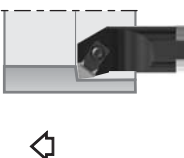
**CSSN 45°**



Page E.11

SN.. 1204..  
SN.. 1207..  
SN.. 1507..

**CSYN 85°**



Page E.12

SN.. 1204..  
SN.. 1207..

Blank diagram

Blank diagram

Blank diagram

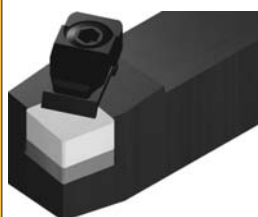
Blank diagram

Blank diagram

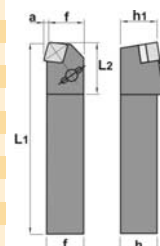
- Inserts
- Turning
- Automatic lathes
- Ceramic tools
- Parting & grooving
- Threading
- Drills
- Cartridges
- Brazed tools
- Milling cutters
- Solid carbide
- Boring heads
- Arbors & adaptors

Inserts

**CCBN 75°**



| REF.                  | h=h1 | b  | L1  | L2 | f  | α    | CN..   | [Icons]  |     |     |     |     |     |
|-----------------------|------|----|-----|----|----|------|--------|----------|-----|-----|-----|-----|-----|
| CCBN R/L 2525 M12-4CD | 25   | 25 | 150 | 32 | 22 | 3,10 | 1204.. | ICSN-454 | 470 | 944 | 247 | -   | 504 |
| CCBN R/L 2525 M12-7CD | 25   | 25 | 150 | 32 | 22 | 3,10 | 1207.. | ICSN-432 | 470 | 944 | 247 | -   | 504 |
| CCBN R/L 3225 P12-4CD | 32   | 25 | 170 | 32 | 22 | 3,10 | 1204.. | ICSN-454 | 470 | 944 | 247 | -   | 504 |
| CCBN R/L 3225 P12-7CD | 32   | 25 | 170 | 32 | 22 | 3,10 | 1207.. | ICSN-432 | 470 | 944 | 247 | -   | 504 |
| CCBN R/L 2525 M16-CD  | 25   | 25 | 150 | 35 | 27 | 3,82 | 1607.. | ICSN-533 | 472 | 944 | 247 | -   | 504 |
| CCBN R/L 3225 P16-CD  | 32   | 25 | 170 | 35 | 27 | 3,82 | 1607.. | ICSN-533 | 472 | 944 | 247 | -   | 504 |
| CCBN R/L 2525 M12-4CX | 25   | 25 | 150 | 32 | 22 | 3,10 | 1204.. | ICSN-454 | 470 | -   | -   | 271 | 504 |
| CCBN R/L 2525 M12-7CX | 25   | 25 | 150 | 32 | 22 | 3,10 | 1207.. | ICSN-432 | 470 | -   | -   | 271 | 504 |
| CCBN R/L 3225 P12-4CX | 32   | 25 | 170 | 32 | 22 | 3,10 | 1204.. | ICSN-454 | 470 | -   | -   | 271 | 504 |
| CCBN R/L 3225 P12-7CX | 32   | 25 | 170 | 32 | 22 | 3,10 | 1207.. | ICSN-432 | 470 | -   | -   | 271 | 504 |
| CCBN R/L 2525 M16-CX  | 25   | 25 | 150 | 35 | 27 | 3,82 | 1607.. | ICSN-533 | 472 | -   | -   | 245 | 504 |
| CCBN R/L 3225 P16-CX  | 32   | 25 | 170 | 35 | 27 | 3,82 | 1607.. | ICSN-533 | 472 | -   | -   | 245 | 504 |



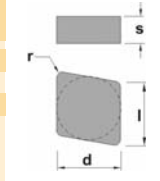
Turning

Automatic lathes

Ceramic tools



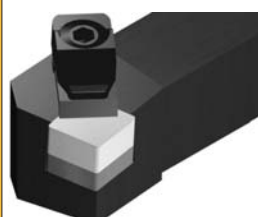
| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| CN.. 1204.. | 12,90 | 4,76 | 12,70 |
| CN.. 1207.. | 12,90 | 7,94 | 12,70 |
| CN.. 1607.. | 16,10 | 7,94 | 15,88 |



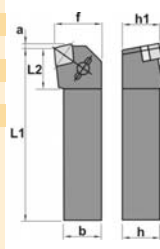
For more information see page: A.76

Parting & grooving

**CCKN 75°**



| REF.                  | h=h1 | b  | L1  | L2 | f  | α    | CN..   | [Icons]  |     |     |     |     |     |
|-----------------------|------|----|-----|----|----|------|--------|----------|-----|-----|-----|-----|-----|
| CCKN R/L 2525 M12-4CD | 25   | 25 | 150 | 29 | 32 | 3,10 | 1204.. | ICSN-454 | 470 | 944 | 247 | -   | 504 |
| CCKN R/L 2525 M12-7CD | 25   | 25 | 150 | 29 | 32 | 3,10 | 1207.. | ICSN-432 | 470 | 944 | 247 | -   | 504 |
| CCKN R/L 3225 P12-4CD | 32   | 25 | 170 | 29 | 32 | 3,10 | 1204.. | ICSN-454 | 470 | 944 | 247 | -   | 504 |
| CCKN R/L 3225 P12-7CD | 32   | 25 | 170 | 29 | 32 | 3,10 | 1207.. | ICSN-432 | 470 | 944 | 247 | -   | 504 |
| CCKN R/L 2525 M12-4CX | 25   | 25 | 150 | 29 | 32 | 3,10 | 1204.. | ICSN-454 | 470 | -   | -   | 271 | 504 |
| CCKN R/L 2525 M12-7CX | 25   | 25 | 150 | 29 | 32 | 3,10 | 1207.. | ICSN-432 | 470 | -   | -   | 271 | 504 |
| CCKN R/L 3225 P12-4CX | 32   | 25 | 170 | 29 | 32 | 3,10 | 1204.. | ICSN-454 | 470 | -   | -   | 271 | 504 |
| CCKN R/L 3225 P12-7CX | 32   | 25 | 170 | 29 | 32 | 3,10 | 1207.. | ICSN-432 | 470 | -   | -   | 271 | 504 |



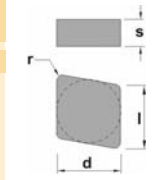
Threading

Drills

Cartridges



| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| CN.. 1204.. | 12,90 | 4,76 | 12,70 |
| CN.. 1207.. | 12,90 | 7,94 | 12,70 |

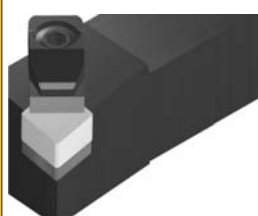


For more information see page: A.76

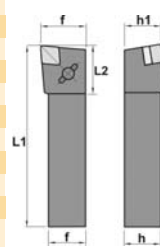
Brazed tools

Milling cutters

**CCLN 95°**



| REF.                  | h=h1 | b  | L1  | L2 | f  | CN..   | [Icons]  |     |     |     |     |     |
|-----------------------|------|----|-----|----|----|--------|----------|-----|-----|-----|-----|-----|
| CCLN R/L 2525 M12-4CD | 25   | 25 | 150 | 35 | 32 | 1204.. | ICSN-454 | 470 | 944 | 247 | -   | 504 |
| CCLN R/L 2525 M12-7CD | 25   | 25 | 150 | 35 | 32 | 1207.. | ICSN-432 | 470 | 944 | 247 | -   | 504 |
| CCLN R/L 3225 P12-4CD | 32   | 25 | 170 | 35 | 32 | 1204.. | ICSN-454 | 470 | 944 | 247 | -   | 504 |
| CCLN R/L 3225 P12-7CD | 32   | 25 | 170 | 35 | 32 | 1207.. | ICSN-432 | 470 | 944 | 247 | -   | 504 |
| CCLN R/L 2525 M16-CD  | 25   | 25 | 150 | 35 | 32 | 1607.. | ICSN-533 | 472 | 944 | 247 | -   | 504 |
| CCLN R/L 3225 P16-CD  | 32   | 25 | 170 | 35 | 32 | 1607.. | ICSN-533 | 472 | 944 | 247 | -   | 504 |
| CCLN R/L 2525 M12-4CX | 25   | 25 | 150 | 35 | 32 | 1204.. | ICSN-454 | 470 | -   | -   | 245 | 504 |
| CCLN R/L 2525 M12-7CX | 25   | 25 | 150 | 35 | 32 | 1207.. | ICSN-432 | 470 | -   | -   | 245 | 504 |
| CCLN R/L 3225 P12-4CX | 32   | 25 | 170 | 35 | 32 | 1204.. | ICSN-454 | 470 | -   | -   | 245 | 504 |
| CCLN R/L 3225 P12-7CX | 32   | 25 | 170 | 35 | 32 | 1207.. | ICSN-432 | 470 | -   | -   | 245 | 504 |
| CCLN R/L 2525 M16-CX  | 25   | 25 | 150 | 35 | 32 | 1607.. | ICSN-533 | 472 | -   | -   | 252 | 504 |
| CCLN R/L 3225 P16-CX  | 32   | 25 | 170 | 35 | 32 | 1607.. | ICSN-533 | 472 | -   | -   | 252 | 504 |



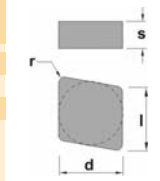
Solid carbide

Boring heads

Arbors & adaptors

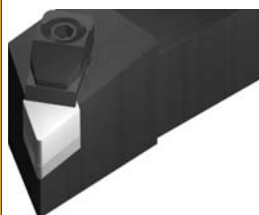


| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| CN.. 1204.. | 12,90 | 4,76 | 12,70 |
| CN.. 1207.. | 12,90 | 7,94 | 12,70 |
| CN.. 1607.. | 16,10 | 7,94 | 15,88 |

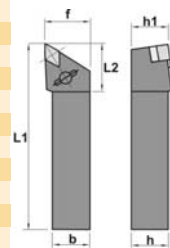


For more information see page: A.76

**CDJN 93°**



| REF.                  | h=h1 | b  | L1  | L2 | f  | DN..   | [Icons]  |     |     |     |     |     |
|-----------------------|------|----|-----|----|----|--------|----------|-----|-----|-----|-----|-----|
| CDJN R/L 2525 M12-4CD | 25   | 25 | 150 | 38 | 32 | 1204.. | 379      | 130 | 946 | 243 | -   | 504 |
| CDJN R/L 2525 M12-7CD | 25   | 25 | 150 | 38 | 32 | 1207.. | 370      | 130 | 946 | 243 | -   | 504 |
| CDJN R/L 3225 P12-4CD | 32   | 25 | 170 | 38 | 32 | 1204.. | 379      | 130 | 946 | 243 | -   | 504 |
| CDJN R/L 3225 P12-7CD | 32   | 25 | 170 | 38 | 32 | 1207.. | 370      | 130 | 946 | 243 | -   | 504 |
| CDJN R/L 2525 M15-CD  | 25   | 25 | 150 | 38 | 32 | 1507.. | IDSN-432 | 470 | 946 | 247 | -   | 504 |
| CDJN R/L 3225 P15-CD  | 32   | 25 | 170 | 38 | 32 | 1507.. | IDSN-432 | 470 | 946 | 247 | -   | 504 |
| CDJN R/L 2525 M12-4CX | 25   | 25 | 150 | 38 | 32 | 1204.. | 379      | 130 | -   | -   | 245 | 504 |
| CDJN R/L 2525 M12-7CX | 25   | 25 | 150 | 38 | 32 | 1207.. | 370      | 130 | -   | -   | 245 | 504 |
| CDJN R/L 3225 P12-4CX | 32   | 25 | 170 | 38 | 32 | 1204.. | 379      | 130 | -   | -   | 245 | 504 |
| CDJN R/L 3225 P12-7CX | 32   | 25 | 170 | 38 | 32 | 1207.. | 370      | 130 | -   | -   | 245 | 504 |
| CDJN R/L 2525 M15-CX  | 25   | 25 | 150 | 38 | 32 | 1507.. | IDSN-432 | 470 | -   | -   | 252 | 504 |
| CDJN R/L 3225 P15-CX  | 32   | 25 | 170 | 38 | 32 | 1507.. | IDSN-432 | 470 | -   | -   | 252 | 504 |



Inserts

Turning

Automatic lathes

Ceramic tools

Parting & grooving

Threading

Drills

Cartridges

Brazed tools

Milling cutters

Solid carbide

Boring heads

Arbors & adaptors

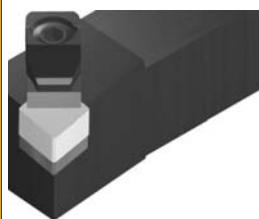


| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| DN.. 1204.. | 13,05 | 4,76 | 10,70 |
| DN.. 1207.. | 13,05 | 7,94 | 10,70 |
| DN.. 1507.. | 15,50 | 7,94 | 12,70 |

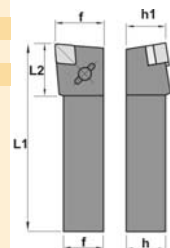


For more information see page: A.76

**CELN 97° 30'**



| REF.                 | h=h1 | b  | L1  | L2 | f  | EN..   | [Icons]  |     |     |     |     |     |
|----------------------|------|----|-----|----|----|--------|----------|-----|-----|-----|-----|-----|
| CELN R/L 2020 K13-CD | 20   | 20 | 125 | 32 | 25 | 1307.. | IESN-432 | 470 | 944 | 243 | -   | 504 |
| CELN R/L 2525 M13-CD | 25   | 25 | 150 | 32 | 32 | 1307.. | IESN-432 | 470 | 944 | 243 | -   | 504 |
| CELN R/L 3225 P13-CD | 32   | 25 | 170 | 32 | 32 | 1307.. | IESN-432 | 470 | 944 | 243 | -   | 504 |
| CELN R/L 2020 K13-CX | 20   | 20 | 125 | 32 | 25 | 1307.. | IESN-432 | 470 | -   | -   | 245 | 504 |
| CELN R/L 2525 M13-CX | 25   | 25 | 150 | 32 | 32 | 1307.. | IESN-432 | 470 | -   | -   | 245 | 504 |
| CELN R/L 3225 P13-CX | 32   | 25 | 170 | 32 | 32 | 1307.. | IESN-432 | 470 | -   | -   | 245 | 504 |

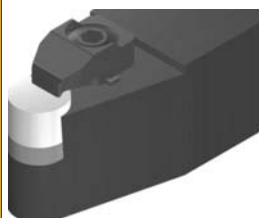


| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| EN.. 1307.. | 13,12 | 7,94 | 12,70 |

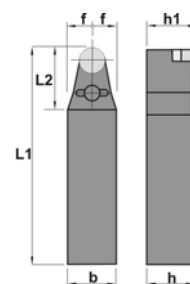


For more information see page: A.77

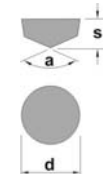
**CRDC**



| REF.               | h=h1 | b  | L1  | L2 | f    | RCGX   | [Icons] |          |     |     |  |  |
|--------------------|------|----|-----|----|------|--------|---------|----------|-----|-----|--|--|
| CRDC N 2525 M06-CD | 25   | 25 | 150 | 20 | 12,5 | 0607.. | 300     | 492      | 227 | 525 |  |  |
| CRDC N 2525 M09-CD | 25   | 25 | 150 | 20 | 12,5 | 0907.. | 387     | 125      | 229 | 503 |  |  |
| CRDC N 3225 P09-CD | 32   | 25 | 170 | 20 | 12,5 | 0907.. | 387     | 125      | 229 | 503 |  |  |
| CRDC N 2525 M12-CD | 25   | 25 | 150 | 25 | 12,5 | 1207.. | 388     | 130      | 229 | 503 |  |  |
| CRDC N 3225 P12-CD | 32   | 25 | 170 | 25 | 12,5 | 1207.. | 388     | 130      | 229 | 503 |  |  |
| CRDC N 2525 M15-CD | 25   | 25 | 150 | 30 | 12,5 | 1510.. | 389     | 130 (x2) | 244 | 504 |  |  |
| CRDC N 3225 P15-CD | 32   | 25 | 170 | 30 | 12,5 | 1510.. | 389     | 130 (x2) | 244 | 504 |  |  |
| CRDC N 3225 P19-CD | 32   | 25 | 170 | 42 | 12,5 | 1910.. | 390     | 130 (x2) | 244 | 504 |  |  |
| CRDC N 3232 P19-CD | 32   | 32 | 170 | 42 | 16,0 | 1910.. | 390     | 130 (x2) | 244 | 504 |  |  |
| CRDC N 3232 P25-CD | 32   | 32 | 170 | 45 | 16,0 | 2512.. | 335     | 130 (x2) | 247 | 504 |  |  |



| REF.        | a    | s     | d     |
|-------------|------|-------|-------|
| RCGX 0607.. | 120° | 7,94  | 6,35  |
| RCGX 0907.. | 120° | 7,94  | 9,52  |
| RCGX 1207.. | 120° | 7,94  | 12,70 |
| RCGX 1510.. | 120° | 10,00 | 15,87 |
| RCGX 1910.. | 120° | 10,00 | 19,05 |
| RCGX 2512.. | 140° | 12,00 | 25,40 |

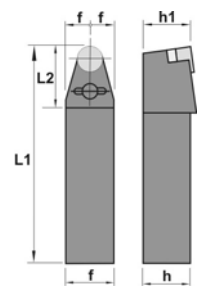


For more information...: A.77

Inserts



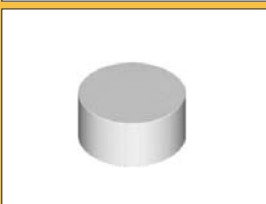
| REF.                       | h=h1 | b  | L1  | L2 | f    | RNGN   |         |     |     |     |     |
|----------------------------|------|----|-----|----|------|--------|---------|-----|-----|-----|-----|
| <b>CRDN N 2525 M12-4CD</b> | 25   | 25 | 150 | 32 | 12,5 | 1204.. | IRSN-45 | 470 | 243 | 944 | 504 |
| <b>CRDN N 2525 M12-7CD</b> | 25   | 25 | 150 | 32 | 12,5 | 1207.. | IRSN-43 | 470 | 243 | 944 | 504 |
| <b>CRDN N 3225 P12-4CD</b> | 32   | 25 | 170 | 32 | 12,5 | 1204.. | IRSN-45 | 470 | 243 | 944 | 504 |
| <b>CRDN N 3225 P12-7CD</b> | 32   | 25 | 170 | 32 | 12,5 | 1207.. | IRSN-43 | 470 | 243 | 944 | 504 |
| <b>CRDN N 2525 M15-7CD</b> | 25   | 25 | 150 | 32 | 12,5 | 1507.. | IRSN-53 | 472 | 247 | 944 | 504 |
| <b>CRDN N 3225 P15-7CD</b> | 32   | 25 | 170 | 32 | 12,5 | 1507.. | IRSN-53 | 472 | 247 | 944 | 504 |
| <b>CRDN N 3225 P19-7CD</b> | 32   | 25 | 170 | 32 | 12,5 | 1907.. | 390     | 478 | 247 | 944 | 504 |
| <b>CRDN N 3232 P25-7CD</b> | 32   | 32 | 170 | 32 | 16,0 | 2507.. | IRSN-84 | 478 | 247 | 944 | 504 |



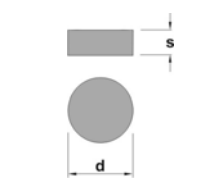
Turning

Automatic lathes

Ceramic tools



| REF.               | l | s    | d     |
|--------------------|---|------|-------|
| <b>RNGN 1204..</b> | - | 4,76 | 12,70 |
| <b>RNGN 1207..</b> | - | 7,94 | 12,70 |
| <b>RNGN 1507..</b> | - | 7,94 | 15,88 |
| <b>RNGN 1907..</b> | - | 7,94 | 19,05 |
| <b>RNGN 2507..</b> | - | 7,94 | 25,40 |

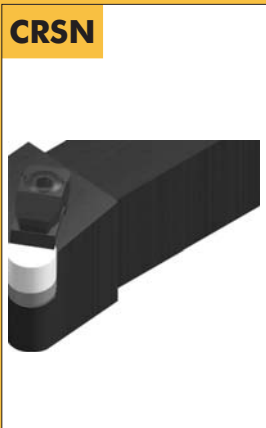


For more information see page: A.78

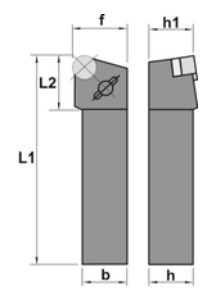
Parting & grooving

Threading

Drills

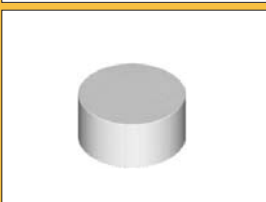


| REF.                         | h=h1 | b  | L1  | L2 | f  | RNGN   |         |     |     |     |     |
|------------------------------|------|----|-----|----|----|--------|---------|-----|-----|-----|-----|
| <b>CRSN R/L 2525 M12-4CD</b> | 25   | 25 | 150 | 28 | 32 | 1204.. | IRSN-45 | 470 | 243 | 944 | 504 |
| <b>CRSN R/L 2525 M12-7CD</b> | 25   | 25 | 150 | 28 | 32 | 1207.. | IRSN-43 | 470 | 243 | 944 | 504 |
| <b>CRSN R/L 3225 P12-4CD</b> | 32   | 25 | 170 | 28 | 32 | 1204.. | IRSN-45 | 470 | 243 | 944 | 504 |
| <b>CRSN R/L 3225 P12-7CD</b> | 32   | 25 | 170 | 28 | 32 | 1207.. | IRSN-43 | 470 | 243 | 944 | 504 |

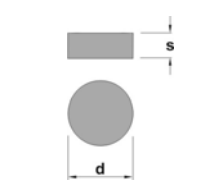


Cartridges

Brazed tools



| REF.               | l | s    | d     |
|--------------------|---|------|-------|
| <b>RNGN 1204..</b> | - | 4,76 | 12,70 |
| <b>RNGN 1207..</b> | - | 7,94 | 12,70 |



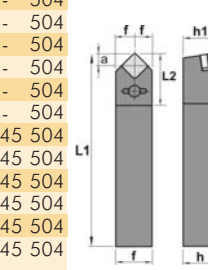
For more information see page: A.78

Milling cutters

Solid carbide



| REF.                       | h=h1 | b  | L1  | L2 | f    | a     | SN..   |          |     |     |     |     |     |
|----------------------------|------|----|-----|----|------|-------|--------|----------|-----|-----|-----|-----|-----|
| <b>CSDN N 2525 M12-4CD</b> | 25   | 25 | 150 | 35 | 12,5 | 8,32  | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSDN N 2525 M12-7CD</b> | 25   | 25 | 150 | 35 | 12,5 | 8,32  | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSDN N 3225 P12-4CD</b> | 32   | 25 | 170 | 35 | 12,5 | 8,32  | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSDN N 3225 P12-7CD</b> | 32   | 25 | 170 | 35 | 12,5 | 8,32  | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSDN N 2525 M15-CD</b>  | 25   | 25 | 150 | 38 | 12,5 | 10,23 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSDN N 3225 P15-CD</b>  | 32   | 25 | 170 | 38 | 12,5 | 10,23 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSDN N 2525 M12-4CX</b> | 25   | 25 | 150 | 35 | 12,5 | 8,32  | 1204.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSDN N 2525 M12-7CX</b> | 25   | 25 | 150 | 35 | 12,5 | 8,32  | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSDN N 3225 P12-4CX</b> | 32   | 25 | 170 | 35 | 12,5 | 8,32  | 1204.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSDN N 3225 P12-7CX</b> | 32   | 25 | 170 | 35 | 12,5 | 8,32  | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSDN N 2525 M15-CX</b>  | 25   | 25 | 150 | 38 | 12,5 | 10,23 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |
| <b>CSDN N 3225 P15-CX</b>  | 32   | 25 | 170 | 38 | 12,5 | 10,23 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |

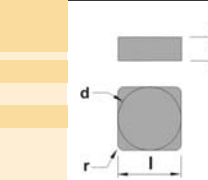


Boring heads

Arbors & adaptors

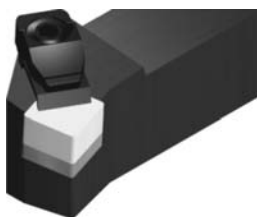


| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>SN.. 1204..</b> | 12,70 | 4,76 | 12,70 |
| <b>SN.. 1207..</b> | 12,70 | 7,94 | 12,70 |
| <b>SN.. 1507..</b> | 15,87 | 7,94 | 15,87 |



For more information see page: A.78

**CSKN 75°**



| REF.                         | h=h1 | b  | L1  | L2 | f  | a    | SN..   | ISSN     |     |     |     |     |     |
|------------------------------|------|----|-----|----|----|------|--------|----------|-----|-----|-----|-----|-----|
| <b>CSKN R/L 2525 M12-4CD</b> | 25   | 25 | 150 | 27 | 32 | 3,06 | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSKN R/L 2525 M12-7CD</b> | 25   | 25 | 150 | 27 | 32 | 3,06 | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSKN R/L 3225 P12-4CD</b> | 32   | 25 | 170 | 27 | 32 | 3,06 | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSKN R/L 3225 P12-7CD</b> | 32   | 25 | 170 | 27 | 32 | 3,06 | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSKN R/L 2525 M15-CD</b>  | 25   | 25 | 150 | 28 | 32 | 3,77 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSKN R/L 3225 P15-CD</b>  | 32   | 25 | 170 | 28 | 32 | 3,77 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSKN R/L 2525 M12-4CX</b> | 25   | 25 | 150 | 27 | 32 | 3,06 | 1204.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSKN R/L 2525 M12-7CX</b> | 25   | 25 | 150 | 27 | 32 | 3,06 | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSKN R/L 3225 P12-4CX</b> | 32   | 25 | 170 | 27 | 32 | 3,06 | 1207.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSKN R/L 3225 P12-7CX</b> | 32   | 25 | 170 | 27 | 32 | 3,06 | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSKN R/L 2525 M15-CX</b>  | 25   | 25 | 150 | 28 | 32 | 3,77 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |
| <b>CSKN R/L 3225 P15-CX</b>  | 32   | 25 | 170 | 28 | 32 | 3,77 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |
| <b>CSKN R/L 4040 P15-CX</b>  | 40   | 40 | 170 | 28 | 50 | 3,77 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |



Inserts

Turning

Automatic lathes

Ceramic tools

Parting & grooving

Threading

Drills

Cartridges

Brazed tools

Milling cutters

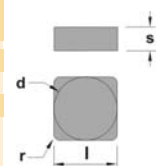
Solid carbide

Boring heads

Arbors & adaptors

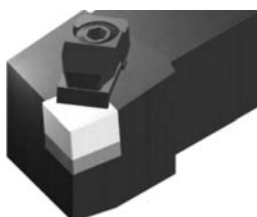


| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>SN.. 1204..</b> | 12,70 | 4,76 | 12,70 |
| <b>SN.. 1207..</b> | 12,70 | 7,94 | 12,70 |
| <b>SN.. 1507..</b> | 15,87 | 7,94 | 15,87 |

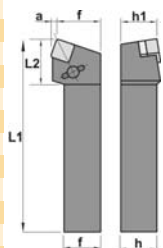


For more information see page: A.78

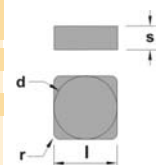
**CSRN 75°**



| REF.                         | h=h1 | b  | L1  | L2 | f  | a    | SN..   | ISSN     |     |     |     |     |     |
|------------------------------|------|----|-----|----|----|------|--------|----------|-----|-----|-----|-----|-----|
| <b>CSRN R/L 2525 M12-4CD</b> | 25   | 25 | 150 | 32 | 27 | 3,06 | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 2525 M12-7CD</b> | 25   | 25 | 150 | 32 | 27 | 3,06 | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 3225 P12-4CD</b> | 32   | 25 | 170 | 32 | 27 | 3,06 | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 3225 P12-7CD</b> | 32   | 25 | 170 | 32 | 27 | 3,06 | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 2525 M15-CD</b>  | 25   | 25 | 150 | 34 | 27 | 3,77 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 3225 P15-CD</b>  | 32   | 25 | 170 | 34 | 27 | 3,77 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 3232 P19-CD</b>  | 32   | 32 | 170 | 34 | 27 | 4,50 | 1907.. | ISSN-634 | 473 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 4040 P19-CD</b>  | 40   | 40 | 170 | 34 | 27 | 4,50 | 1907.. | ISSN-634 | 478 | 944 | 247 | -   | 504 |
| <b>CSRN R/L 2525 M12-4CX</b> | 25   | 25 | 150 | 32 | 27 | 3,06 | 1204.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSRN R/L 2525 M12-7CX</b> | 25   | 25 | 150 | 32 | 27 | 3,06 | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSRN R/L 3225 P12-4CX</b> | 32   | 25 | 170 | 32 | 27 | 3,06 | 1204.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSRN R/L 3225 P12-7CX</b> | 32   | 25 | 170 | 32 | 27 | 3,06 | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSRN R/L 2525 M15-CX</b>  | 25   | 25 | 150 | 34 | 27 | 3,77 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |
| <b>CSRN R/L 3225 P15-CX</b>  | 32   | 25 | 170 | 34 | 27 | 3,77 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |

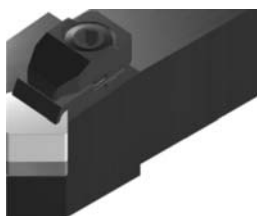


| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>SN.. 1204..</b> | 12,70 | 4,76 | 12,70 |
| <b>SN.. 1207..</b> | 12,70 | 7,94 | 12,70 |
| <b>SN.. 1507..</b> | 15,87 | 7,94 | 15,87 |

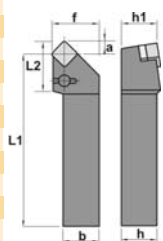


For more information see page: A.78

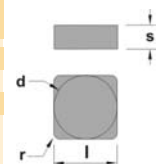
**CSSN 45°**



| REF.                         | h=h1 | b  | L1  | L2 | f  | a     | SN..   | ISSN     |     |     |     |     |     |
|------------------------------|------|----|-----|----|----|-------|--------|----------|-----|-----|-----|-----|-----|
| <b>CSSN R/L 2525 M12-4CD</b> | 25   | 25 | 150 | 35 | 32 | 8,32  | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 2525 M12-7CD</b> | 25   | 25 | 150 | 35 | 32 | 8,32  | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 3225 P12-4CD</b> | 32   | 25 | 170 | 35 | 32 | 8,32  | 1204.. | ISSN-452 | 470 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 3225 P12-7CD</b> | 32   | 25 | 170 | 35 | 32 | 8,32  | 1207.. | ISSN-432 | 470 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 2525 M15-CD</b>  | 25   | 25 | 150 | 37 | 32 | 10,23 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 3225 P15-CD</b>  | 32   | 25 | 170 | 37 | 32 | 10,23 | 1507.. | ISSN-533 | 472 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 3232 P19-CD</b>  | 32   | 32 | 170 | 37 | 32 | 12,50 | 1907.. | ISSN-634 | 478 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 4040 P19-CD</b>  | 40   | 40 | 170 | 37 | 32 | 12,50 | 1907.. | ISSN-634 | 478 | 944 | 247 | -   | 504 |
| <b>CSSN R/L 2525 M12-4CX</b> | 25   | 25 | 150 | 35 | 32 | 8,32  | 1204.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSSN R/L 2525 M12-7CX</b> | 25   | 25 | 150 | 35 | 32 | 8,32  | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSSN R/L 3225 P12-4CX</b> | 32   | 25 | 170 | 35 | 32 | 8,32  | 1204.. | ISSN-452 | 470 | -   | -   | 245 | 504 |
| <b>CSSN R/L 3225 P12-7CX</b> | 32   | 25 | 170 | 35 | 32 | 8,32  | 1207.. | ISSN-432 | 470 | -   | -   | 245 | 504 |
| <b>CSSN R/L 2525 M15-CX</b>  | 25   | 25 | 150 | 37 | 32 | 10,23 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |
| <b>CSSN R/L 3225 P15-CX</b>  | 32   | 25 | 170 | 37 | 32 | 10,23 | 1507.. | ISSN-533 | 472 | -   | -   | 245 | 504 |



| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>SN.. 1204..</b> | 12,70 | 4,76 | 12,70 |
| <b>SN.. 1207..</b> | 12,70 | 7,94 | 12,70 |
| <b>SN.. 1507..</b> | 15,87 | 7,94 | 15,87 |

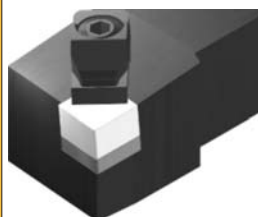


For more information see page: A.78

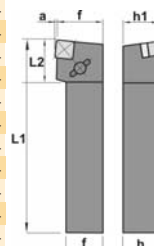


Inserts

**CSXN 85°**



| REF.                  | h=h1 | b  | L1  | L2 | f  | α    | SN..   | ISSN-452 470 944 247 - 504 |  |  |  |  |
|-----------------------|------|----|-----|----|----|------|--------|----------------------------|--|--|--|--|
| CSXN R/L 2525 M12-4CD | 25   | 25 | 150 | 30 | 32 | 1,03 | 1204.. | ISSN-452 470 944 247 - 504 |  |  |  |  |
| CSXN R/L 2525 M12-7CD | 25   | 25 | 150 | 30 | 32 | 1,03 | 1207.. | ISSN-432 470 944 247 - 504 |  |  |  |  |
| CSXN R/L 3225 P12-4CD | 32   | 25 | 170 | 30 | 32 | 1,03 | 1204.. | ISSN-452 470 944 247 - 504 |  |  |  |  |
| CSXN R/L 3225 P12-7CD | 32   | 25 | 170 | 30 | 32 | 1,03 | 1207.. | ISSN-432 470 944 247 - 504 |  |  |  |  |
| CSXN R/L 2525 M15-CD  | 25   | 25 | 150 | 33 | 32 | 1,38 | 1507.. | ISSN-533 472 944 247 - 504 |  |  |  |  |
| CSXN R/L 3225 P15-CD  | 32   | 25 | 170 | 33 | 32 | 1,38 | 1507.. | ISSN-533 472 944 247 - 504 |  |  |  |  |
| CSXN R/L 2525 M12-4CX | 25   | 32 | 150 | 30 | 32 | 1,03 | 1204.. | ISSN-452 470 - - 245 504   |  |  |  |  |
| CSXN R/L 2525 M12-7CX | 25   | 40 | 150 | 30 | 32 | 1,03 | 1207.. | ISSN-432 470 - - 245 504   |  |  |  |  |
| CSXN R/L 3225 P12-4CX | 32   | 25 | 170 | 30 | 32 | 1,03 | 1204.. | ISSN-452 470 - - 245 504   |  |  |  |  |
| CSXN R/L 3225 P12-7CX | 32   | 25 | 170 | 30 | 32 | 1,03 | 1207.. | ISSN-432 470 - - 245 504   |  |  |  |  |
| CSXN R/L 2525 M15-CX  | 25   | 25 | 150 | 33 | 32 | 1,38 | 1507.. | ISSN-533 472 - - 245 504   |  |  |  |  |
| CSXN R/L 3225 P15-CX  | 32   | 25 | 170 | 33 | 32 | 1,38 | 1507.. | ISSN-533 472 - - 245 504   |  |  |  |  |



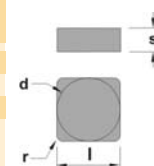
Turning

Automatic lathes

Ceramic tools



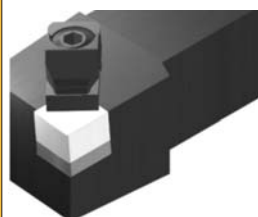
| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| SN.. 1204.. | 12,70 | 4,76 | 12,70 |
| SN.. 1207.. | 12,70 | 7,94 | 12,70 |
| SN.. 1507.. | 15,87 | 7,94 | 15,87 |



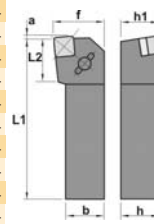
For more information see page: A.78

Parting & grooving

**CSYN 85°**



| REF.                  | h=h1 | b  | L1  | L2 | f  | α    | SN..   | ISSN-452 470 944 247 - 504 |  |  |  |  |
|-----------------------|------|----|-----|----|----|------|--------|----------------------------|--|--|--|--|
| CSYN R/L 2525 M12-4CD | 25   | 25 | 150 | 27 | 32 | 1,03 | 1204.. | ISSN-452 470 944 247 - 504 |  |  |  |  |
| CSYN R/L 2525 M12-7CD | 25   | 25 | 150 | 27 | 32 | 1,03 | 1207.. | ISSN-432 470 944 247 - 504 |  |  |  |  |
| CSYN R/L 3225 P12-4CD | 32   | 25 | 170 | 27 | 32 | 1,03 | 1204.. | ISSN-452 470 944 247 - 504 |  |  |  |  |
| CSYN R/L 3225 P12-7CD | 32   | 25 | 170 | 27 | 32 | 1,03 | 1207.. | ISSN-432 470 944 247 - 504 |  |  |  |  |
| CSYN R/L 2525 M15-CD  | 25   | 25 | 150 | 27 | 32 | 1,38 | 1507.. | ISSN-533 472 944 247 - 504 |  |  |  |  |
| CSYN R/L 3225 P15-CD  | 32   | 25 | 170 | 27 | 32 | 1,38 | 1507.. | ISSN-533 472 944 247 - 504 |  |  |  |  |
| CSYN R/L 2525 M12-4CX | 25   | 32 | 150 | 27 | 32 | 1,03 | 1204.. | ISSN-452 470 - - 245 504   |  |  |  |  |
| CSYN R/L 2525 M12-7CX | 25   | 40 | 150 | 27 | 32 | 1,03 | 1207.. | ISSN-432 470 - - 245 504   |  |  |  |  |
| CSYN R/L 3225 P12-4CX | 32   | 25 | 170 | 27 | 32 | 1,03 | 1204.. | ISSN-452 470 - - 245 504   |  |  |  |  |
| CSYN R/L 3225 P12-7CX | 32   | 25 | 170 | 27 | 32 | 1,03 | 1207.. | ISSN-432 470 - - 245 504   |  |  |  |  |
| CSYN R/L 2525 M15-CX  | 25   | 25 | 150 | 27 | 32 | 1,38 | 1507.. | ISSN-533 472 - - 245 504   |  |  |  |  |
| CSYN R/L 3225 P15-CX  | 32   | 25 | 170 | 27 | 32 | 1,38 | 1507.. | ISSN-533 472 - - 245 504   |  |  |  |  |



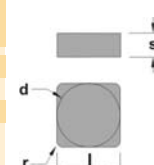
Threading

Drills

Cartridges



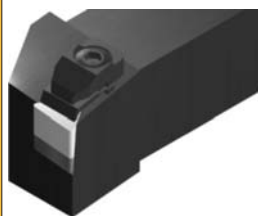
| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| SN.. 1204.. | 12,70 | 4,76 | 12,70 |
| SN.. 1207.. | 12,70 | 7,94 | 12,70 |
| SN.. 1507.. | 15,87 | 7,94 | 15,87 |



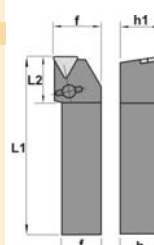
For more information see page: A.78

Brazed tools

**CTFN 90°**



| REF.                  | h=h1 | b  | L1  | L2 | f  | TNGN   | ITSN-342 465 946 243 504 |  |  |  |  |
|-----------------------|------|----|-----|----|----|--------|--------------------------|--|--|--|--|
| CTFN R/L 2525 M16-4CD | 25   | 25 | 150 | 29 | 32 | 1604.. | ITSN-342 465 946 243 504 |  |  |  |  |
| CTFN R/L 2525 M16-7CD | 25   | 25 | 150 | 29 | 32 | 1607.. | ITSN-322 465 946 243 504 |  |  |  |  |
| CTFN R/L 3225 P16-4CD | 32   | 25 | 170 | 29 | 32 | 1604.. | ITSN-342 465 946 243 504 |  |  |  |  |
| CTFN R/L 3225 P16-7CD | 32   | 25 | 170 | 29 | 32 | 1607.. | ITSN-322 465 946 243 504 |  |  |  |  |



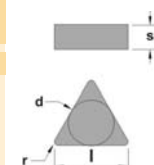
Milling cutters

Solid carbide

Boring heads



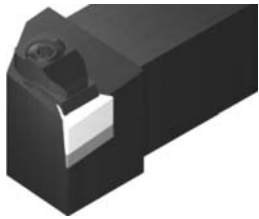
| REF.        | l     | s    | d    |
|-------------|-------|------|------|
| TNGN 1604.. | 16,50 | 4,76 | 9,52 |
| TNGN 1607.. | 16,50 | 7,94 | 9,52 |



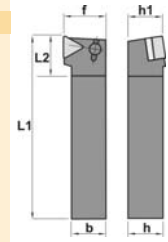
For more information see page: A.79

Arbors & adaptors

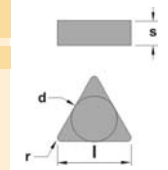
**CTGN 90°**



| REF.                         | h=h1 | b  | L1  | L2 | f  | TNGN   | [Icons]  |     |     |     |     |
|------------------------------|------|----|-----|----|----|--------|----------|-----|-----|-----|-----|
| <b>CTGN R/L 2525 M16-4CD</b> | 25   | 25 | 150 | 20 | 32 | 1604.. | ITSN-342 | 465 | 946 | 243 | 504 |
| <b>CTGN R/L 2525 M16-7CD</b> | 25   | 25 | 150 | 20 | 32 | 1607.. | ITSN-322 | 465 | 946 | 243 | 504 |
| <b>CTGN R/L 3225 P16-4CD</b> | 32   | 25 | 170 | 20 | 32 | 1604.. | ITSN-342 | 465 | 946 | 243 | 504 |
| <b>CTGN R/L 3225 P16-7CD</b> | 32   | 25 | 170 | 20 | 32 | 1607.. | ITSN-322 | 465 | 946 | 243 | 504 |



| REF.               | l     | s    | d    |
|--------------------|-------|------|------|
| <b>TNGN 1604..</b> | 16,50 | 4,76 | 9,52 |
| <b>TNGN 1607..</b> | 16,50 | 7,94 | 9,52 |

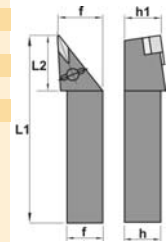


For more information see page: A.79

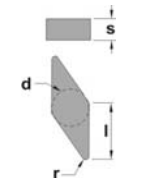
**CVJN 93°**



| REF.                         | h=h1 | b  | L1  | L2 | f  | VN..   | [Icons]  |     |     |       |       |
|------------------------------|------|----|-----|----|----|--------|----------|-----|-----|-------|-------|
| <b>CVJN R/L 2525 M16-4CD</b> | 25   | 25 | 150 | 41 | 32 | 1604.. | IVSN-342 | 465 | 946 | 247   | - 504 |
| <b>CVJN R/L 2525 M16-7CD</b> | 25   | 25 | 150 | 41 | 32 | 1607.. | IVSN-322 | 465 | 946 | 247   | - 504 |
| <b>CVJN R/L 3225 P16-4CD</b> | 32   | 25 | 170 | 41 | 32 | 1604.. | IVSN-342 | 465 | 946 | 247   | - 504 |
| <b>CVJN R/L 3225 P16-7CD</b> | 32   | 25 | 170 | 41 | 32 | 1607.. | IVSN-322 | 465 | 946 | 247   | - 504 |
| <b>CVJN R/L 2525 M16-4CX</b> | 25   | 25 | 150 | 41 | 32 | 1604.. | IVSN-342 | 465 | -   | - 248 | 504   |
| <b>CVJN R/L 2525 M16-7CX</b> | 25   | 25 | 150 | 41 | 32 | 1607.. | IVSN-322 | 465 | -   | - 248 | 504   |
| <b>CVJN R/L 3225 P16-4CX</b> | 32   | 25 | 170 | 41 | 32 | 1604.. | IVSN-342 | 465 | -   | - 248 | 504   |
| <b>CVJN R/L 3225 P16-7CX</b> | 32   | 25 | 170 | 41 | 32 | 1607.. | IVSN-322 | 465 | -   | - 248 | 504   |

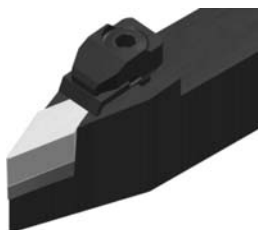


| REF.               | l     | s    | d    |
|--------------------|-------|------|------|
| <b>VN.. 1604..</b> | 16,50 | 4,76 | 9,52 |
| <b>VN.. 1607..</b> | 16,50 | 7,94 | 9,52 |

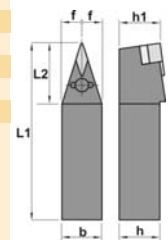


For more information see page: A.79

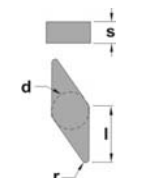
**CVVN 62° 30'**



| REF.                       | h=h1 | b  | L1  | L2 | f    | VN..   | [Icons]  |     |     |       |       |
|----------------------------|------|----|-----|----|------|--------|----------|-----|-----|-------|-------|
| <b>CVVN N 2525 M16-4CD</b> | 25   | 25 | 150 | 45 | 12,5 | 1604.. | IVSN-342 | 465 | 946 | 247   | - 504 |
| <b>CVVN N 2525 M16-7CD</b> | 25   | 25 | 150 | 45 | 12,5 | 1607.. | IVSN-322 | 465 | 946 | 247   | - 504 |
| <b>CVVN N 3225 P16-4CD</b> | 32   | 25 | 170 | 45 | 12,5 | 1604.. | IVSN-342 | 465 | 946 | 247   | - 504 |
| <b>CVVN N 3225 P16-7CD</b> | 32   | 25 | 170 | 45 | 12,5 | 1607.. | IVSN-322 | 465 | 946 | 247   | - 504 |
| <b>CVVN N 2525 M16-4CX</b> | 25   | 25 | 150 | 45 | 12,5 | 1604.. | IVSN-342 | 465 | -   | - 248 | 504   |
| <b>CVVN N 2525 M16-7CX</b> | 25   | 25 | 150 | 45 | 12,5 | 1607.. | IVSN-322 | 465 | -   | - 248 | 504   |
| <b>CVVN N 3225 P16-4CX</b> | 32   | 25 | 170 | 45 | 12,5 | 1604.. | IVSN-342 | 465 | -   | - 248 | 504   |
| <b>CVVN N 3225 P16-7CX</b> | 32   | 25 | 170 | 45 | 12,5 | 1607.. | IVSN-322 | 465 | -   | - 248 | 504   |



| REF.               | l     | s    | d    |
|--------------------|-------|------|------|
| <b>VN.. 1604..</b> | 16,50 | 4,76 | 9,52 |
| <b>VN.. 1607..</b> | 16,50 | 7,94 | 9,52 |



For more information see page: A.79

Inserts

Turning

Automatic lathes

Ceramic tools

Parting & grooving

Threading

Drills

Cartridges

Brazed tools

Milling cutters

Solid carbide

Boring heads

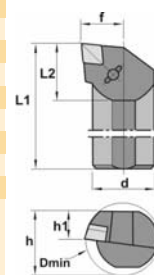
Arbors & adaptors

Inserts

CCLN 95°



| REF.                 | d  | h1   | L1  | L2 | f  | h  | Dmin | CN..   |          |     |     |     |   |         |
|----------------------|----|------|-----|----|----|----|------|--------|----------|-----|-----|-----|---|---------|
| S32S CCLN R/L 12-7CD | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. | -        | -   | 944 | 247 | - | 504     |
| S40T CCLN R/L 12-4CD | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1204.. | ICSN-454 | 471 | 944 | 247 | - | 504     |
| S40T CCLN R/L 12-7CD | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1207.. | ICSN-432 | 471 | 944 | 247 | - | 504     |
| S50U CCLN R/L 12-4CD | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1204.. | ICSN-454 | 470 | 944 | 247 | - | 504     |
| S50U CCLN R/L 12-7CD | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1207.. | ICSN-432 | 470 | 944 | 247 | - | 504     |
| S32S CCLN R/L 12-7CX | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. | -        | -   | -   | -   | - | 245 504 |
| S50U CDQN R/L 12-4CX | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1204.. | ICSN-454 | 471 | -   | -   | - | 245 504 |
| S40T CCLN R/L 12-7CX | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1207.. | ICSN-432 | 471 | -   | -   | - | 245 504 |
| S50U CCLN R/L 12-4CX | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1204.. | ICSN-454 | 470 | -   | -   | - | 245 504 |
| S50U CCLN R/L 12-7CX | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1207.. | ICSN-432 | 470 | -   | -   | - | 245 504 |



Turning

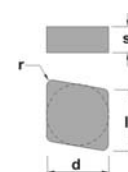
Automatic lathes

Ceramic tools



| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| CN.. 1204.. | 12,90 | 4,76 | 12,70 |
| CN.. 1207.. | 12,90 | 7,94 | 12,70 |

For more information see page: A.76

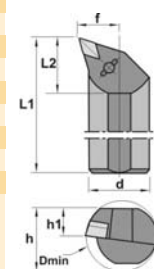


Parting & grooving

CDQN 107° 30'



| REF.                 | d  | h1   | L1  | L2 | f  | h  | Dmin | DN..   |          |     |     |     |   |         |
|----------------------|----|------|-----|----|----|----|------|--------|----------|-----|-----|-----|---|---------|
| S32S CDQN R/L 12-7CD | 32 | 15,0 | 250 | 40 | 22 | 30 | 50   | 1207.. | -        | -   | 944 | 243 | - | 504     |
| S40T CDQN R/L 12-4CD | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1204.. | 379      | 130 | 944 | 243 | - | 504     |
| S40T CDQN R/L 12-7CD | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1207.. | 370      | 130 | 944 | 243 | - | 504     |
| S50U CDQN R/L 15-4CD | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1504.. | IDSN-452 | 470 | 944 | 247 | - | 504     |
| S50U CDQN R/L 15-7CD | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1507.. | IDSN-432 | 470 | 944 | 247 | - | 504     |
| S32S CDQN R/L 12-7CX | 32 | 15,0 | 250 | 40 | 22 | 30 | 50   | 1207.. | -        | -   | -   | -   | - | 245 504 |
| S40T CDQN R/L 12-4CX | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1204.. | 379      | 130 | -   | -   | - | 245 504 |
| S40T CDQN R/L 12-7CX | 40 | 18,5 | 300 | 35 | 27 | 37 | 70   | 1207.. | 370      | 130 | -   | -   | - | 245 504 |
| S50U CDQN R/L 15-4CX | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1504.. | IDSN-452 | 470 | -   | -   | - | 252 504 |
| S50U CDQN R/L 15-7CX | 50 | 23,5 | 350 | 38 | 32 | 47 | 70   | 1507.. | IDSN-432 | 470 | -   | -   | - | 252 504 |



Threading

Drills

Cartridges



| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| DN.. 1204.. | 13,05 | 4,76 | 10,70 |
| DN.. 1207.. | 13,05 | 7,94 | 10,70 |
| DN.. 1504.. | 15,50 | 4,76 | 12,70 |
| DN.. 1507.. | 15,50 | 7,94 | 12,70 |

For more information see page: A.76

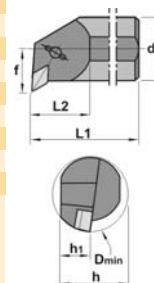


Brazed tools

CDUN 93°



| REF.                 | d  | h1   | L1  | L2 | f  | h  | Dmin | DN..   |          |     |     |     |   |         |
|----------------------|----|------|-----|----|----|----|------|--------|----------|-----|-----|-----|---|---------|
| S32S CDUN R/L 12-7CD | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. | -        | -   | 946 | 243 | - | 504     |
| S40T CDUN R/L 12-4CD | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1204.. | 379      | 130 | 946 | 243 | - | 504     |
| S40T CDUN R/L 12-7CD | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1207.. | 370      | 130 | 946 | 243 | - | 504     |
| S50U CDUN R/L 15-4CD | 50 | 23,5 | 350 | 50 | 32 | 47 | 70   | 1504.. | IDSN-452 | 470 | 946 | 247 | - | 504     |
| S50U CDUN R/L 15-7CD | 50 | 23,5 | 350 | 50 | 32 | 47 | 70   | 1507.. | IDSN-432 | 470 | 946 | 247 | - | 504     |
| S32S CDUN R/L 12-7CX | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. | -        | -   | -   | -   | - | 245 504 |
| S40T CDUN R/L 12-4CX | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1204.. | 379      | 130 | -   | -   | - | 245 504 |
| S40T CDUN R/L 12-7CX | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1207.. | 370      | 130 | -   | -   | - | 245 504 |
| S50U CDUN R/L 15-4CX | 50 | 23,5 | 350 | 50 | 32 | 47 | 70   | 1504.. | IDSN-452 | 470 | -   | -   | - | 252 504 |
| S50U CDUN R/L 15-7CX | 50 | 23,5 | 350 | 50 | 32 | 47 | 70   | 1507.. | IDSN-432 | 470 | -   | -   | - | 252 504 |



Milling cutters

Solid carbide

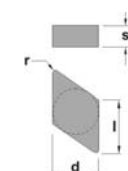
Boring heads

Arbors & adaptors



| REF.        | l     | s    | d     |
|-------------|-------|------|-------|
| DN.. 1204.. | 13,05 | 4,76 | 10,70 |
| DN.. 1207.. | 13,05 | 7,94 | 10,70 |
| DN.. 1504.. | 15,50 | 4,76 | 12,70 |
| DN.. 1507.. | 15,50 | 7,94 | 12,70 |

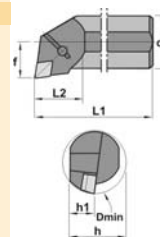
For more information see page: A.76



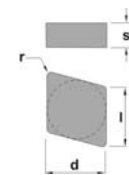
**CELN 97° 30'**



| REF.                       | d  | h1   | L1  | L2 | f  | h  | Dmin | EN..   |
|----------------------------|----|------|-----|----|----|----|------|--------|
| <b>S40T CELN R/L 13-CD</b> | 40 | 18,5 | 300 | 32 | 27 | 37 | 50   | 1307.. |
| <b>S50U CELN R/L 13-CD</b> | 50 | 23,5 | 350 | 32 | 35 | 47 | 63   | 1307.. |
| <b>S40T CELN R/L 13-CX</b> | 40 | 18,5 | 300 | 32 | 27 | 37 | 50   | 1307.. |
| <b>S50U CELN R/L 13-CX</b> | 50 | 23,5 | 350 | 32 | 35 | 47 | 63   | 1307.. |



| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>EN.. 1307..</b> | 13,12 | 7,94 | 12,70 |

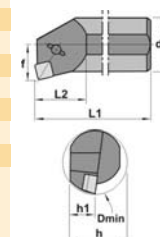


For more information see page: A.77

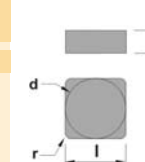
**CSKN 75°**



| REF.                        | d  | h1   | L1  | L2 | f  | h  | Dmin | SN..   |
|-----------------------------|----|------|-----|----|----|----|------|--------|
| <b>S32S CSKN R/L 12-7CD</b> | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. |
| <b>S40T CSKN R/L 12-4CD</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1204.. |
| <b>S40T CSKN R/L 12-7CD</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1207.. |
| <b>S50U CSKN R/L 12-4CD</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1204.. |
| <b>S50U CSKN R/L 12-7CD</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1207.. |
| <b>S32S CSKN R/L 12-7CX</b> | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. |
| <b>S40T CSKN R/L 12-4CX</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1204.. |
| <b>S40T CSKN R/L 12-7CX</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1207.. |
| <b>S50U CSKN R/L 12-4CX</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1204.. |
| <b>S50U CSKN R/L 12-7CX</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1207.. |



| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>SN.. 1204..</b> | 12,70 | 4,76 | 12,70 |
| <b>SN.. 1207..</b> | 12,70 | 7,94 | 12,70 |

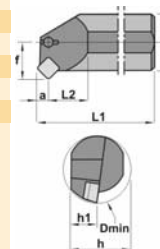


For more information see page: A.78

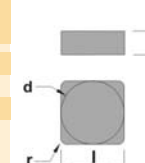
**CSSN 45°**



| REF.                        | d  | h1   | L1  | L2 | f  | h  | Dmin | SN..   |
|-----------------------------|----|------|-----|----|----|----|------|--------|
| <b>S32S CSSN R/L 12-7CD</b> | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. |
| <b>S40T CSSN R/L 12-4CD</b> | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1204.. |
| <b>S40T CSSN R/L 12-7CD</b> | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1207.. |
| <b>S50U CSSN R/L 15-7CD</b> | 50 | 23,5 | 350 | 50 | 32 | 47 | 70   | 1507.. |
| <b>S32S CSSN R/L 12-7CX</b> | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. |
| <b>S40T CSSN R/L 12-4CX</b> | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1204.. |
| <b>S40T CSSN R/L 12-7CX</b> | 40 | 18,5 | 300 | 50 | 27 | 37 | 70   | 1207.. |
| <b>S50U CSSN R/L 15-7CX</b> | 50 | 23,5 | 350 | 50 | 32 | 47 | 70   | 1507.. |



| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>SN.. 1204..</b> | 12,70 | 4,76 | 12,70 |
| <b>SN.. 1207..</b> | 12,70 | 7,94 | 12,70 |
| <b>SN.. 1507..</b> | 15,87 | 7,94 | 15,87 |



For more information see page: A.78

Inserts

Turning

Automatic lathes

Ceramic tools

Parting & grooving

Threading

Drills

Cartridges

Brazed tools

Milling cutters

Solid carbide

Boring heads

Arbors & adaptors

Inserts

Turning

Automatic lathes

Ceramic tools

Parting & grooving

Threading

Drills

Cartridges

Brazed tools

Milling cutters

Solid carbide

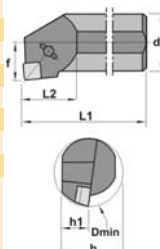
Boring heads

Arbors & adaptors

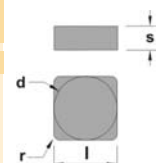
**CSYN 85°**



| REF.                        | d  | h1   | L1  | L2 | f  | h  | Dmin | SN..   |          |     |     |     |     |     |
|-----------------------------|----|------|-----|----|----|----|------|--------|----------|-----|-----|-----|-----|-----|
| <b>S32S CSYN R/L 12-7CD</b> | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. | -        | -   | 944 | 247 | -   | 504 |
| <b>S40T CSYN R/L 12-4CD</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1204.. | ISSN-452 | 471 | 944 | 247 | -   | 504 |
| <b>S40T CSYN R/L 12-7CD</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1207.. | ISSN-432 | 471 | 944 | 247 | -   | 504 |
| <b>S50U CSYN R/L 12-4CD</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1204.. | ISSN-452 | 472 | 944 | 247 | -   | 504 |
| <b>S50U CSYN R/L 12-7CD</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1207.. | ISSN-432 | 472 | 944 | 247 | -   | 504 |
| <b>S32S CSYN R/L 12-7CX</b> | 32 | 15,0 | 250 | 40 | 22 | 30 | 40   | 1207.. | -        | -   | -   | -   | 245 | 504 |
| <b>S40T CSYN R/L 12-4CX</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1204.. | ISSN-452 | 471 | -   | -   | 245 | 504 |
| <b>S40T CSYN R/L 12-7CX</b> | 40 | 18,5 | 300 | 67 | 27 | 37 | 70   | 1207.. | ISSN-432 | 471 | -   | -   | 245 | 504 |
| <b>S50U CSYN R/L 12-4CX</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1204.. | ISSN-452 | 472 | -   | -   | 245 | 504 |
| <b>S50U CSYN R/L 12-7CD</b> | 50 | 23,5 | 350 | 67 | 35 | 47 | 70   | 1207.. | ISSN-432 | 472 | -   | -   | 245 | 504 |



| REF.               | l     | s    | d     |
|--------------------|-------|------|-------|
| <b>SN.. 1204..</b> | 12,70 | 4,76 | 12,70 |
| <b>SN.. 1207..</b> | 12,70 | 7,94 | 12,70 |



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