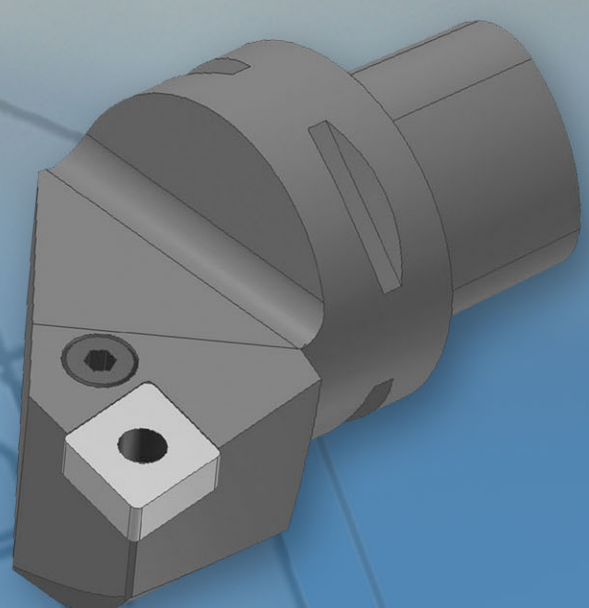
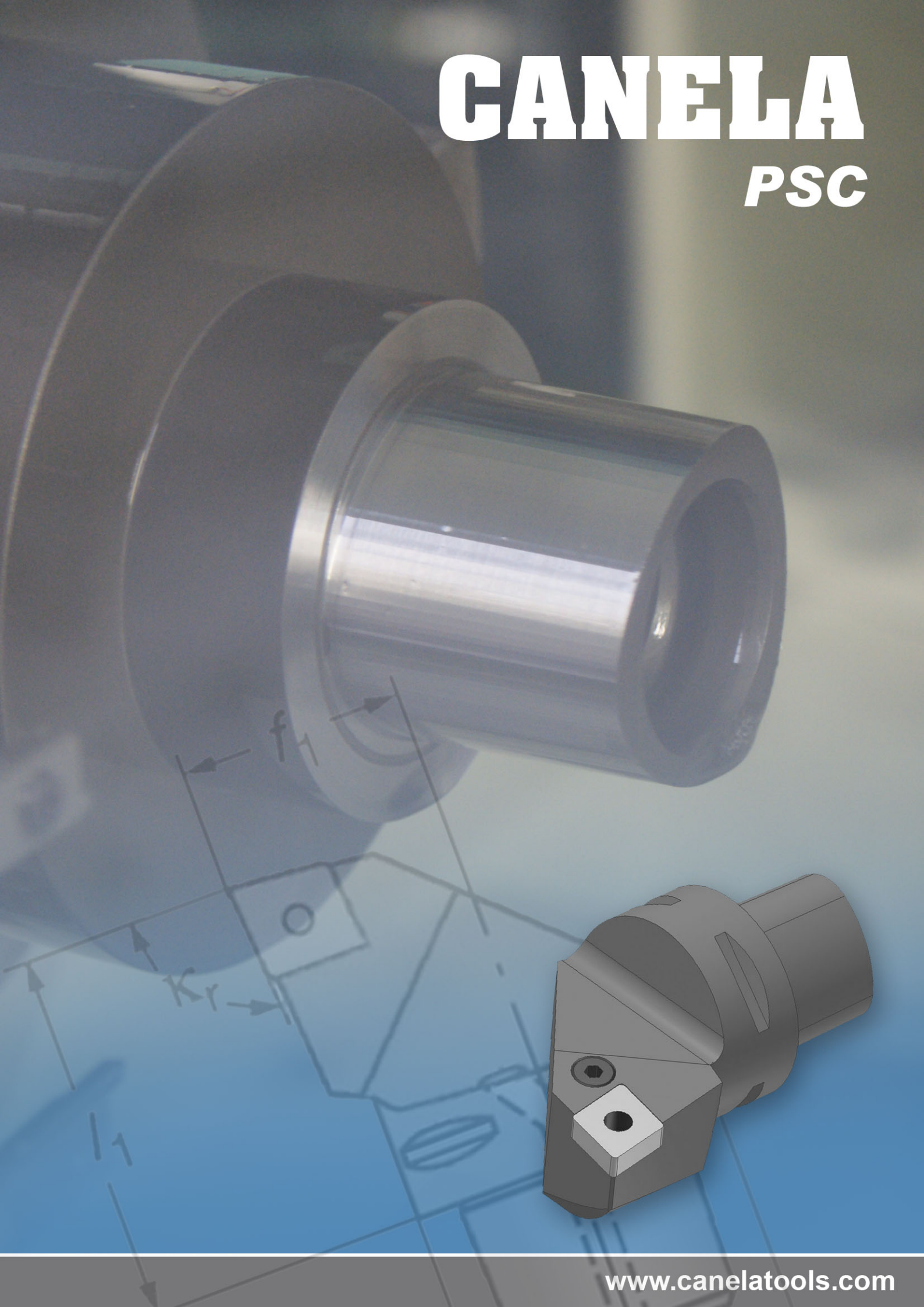


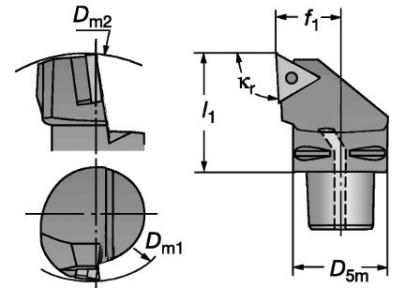
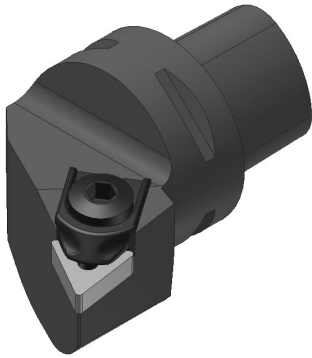
CANELA

PSC



PSC

| | |
|----------|----|
| External | 02 |
| Internal | 28 |

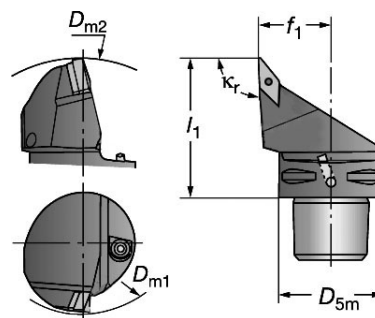
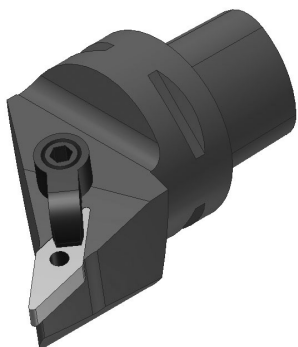


| MTJN | | Characteristics: PSC with internal coolant. | | | | | | | | | |
|-------------|------------------------------|---|-------------------------|-------------------------|----------------|----------------|-----------------|------------------|------------------|--------------|----|
| Ref. | | D _{5m} | D _{m1} min. | D _{m2} min. | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
| | PSC40-MTJNR/L27050-16 | 40 | 110 | 140 | 27.0 | 50.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC50-MTJNR/L35060-16 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC63-MTJNR/L45065-16 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC63-MTJNR/L45065-22 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 3.9 | TNM.. 2204.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | | | | | |
|------------------------------|------|------|----------|------|------|
| PSC40-MTJNR/L27050-16 | 2014 | 5005 | 3414 | 1644 | 1393 |
| PSC50-MTJNR/L35060-16 | 2014 | 5005 | 3414 | 1644 | 1393 |
| PSC63-MTJNR/L45065-16 | 2014 | 5005 | 3414 | 1644 | 1393 |
| PSC63-MTJNR/L45065-22 | 2014 | 5005 | ITSN-433 | 1661 | 1394 |

| Ref. | TNM.. | | | | Negative triangular inserts. | | |
|--------------|-------|------|-------|------|------------------------------|----------|--|
| | l | s | d | TNMA | TNMG-CF | TNMG-CFC | |
| TNM.. 1604.. | 16,50 | 4,76 | 9,52 | | | | |
| TNM.. 2204.. | 22,00 | 4,76 | 12,70 | | | | |
| | | | | | | | |




MVJN



Characteristics:

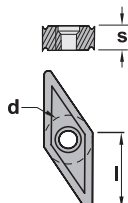



PSC with internal coolant.

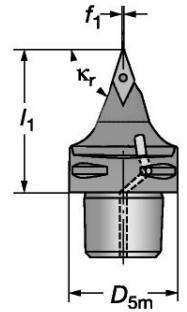
| Ref. | | D5m | Dm1 min. | Dm2 min. | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert |  |
|------|------------------------------|-----|----------|----------|------|------|-----------------|------------------|------------------|-------------|---|
| | PSC40-MVJNR/L27062-16 | 40 | 60 | 152 | 27.0 | 62.0 | -4° | -13° | 3.0 | VN.. 1604.. | |
| | PSC50-MVJNR/L35065-16 | 50 | 65 | 170 | 35.0 | 65.0 | -4° | -13° | 3.0 | VN.. 1604.. | |
| | PSC63-MVJNR/L45065-16 | 63 | 81 | 190 | 45.0 | 65.0 | -4° | -13° | 3.0 | VN.. 1604.. | |
| | PSC80-MVJNR/L55080-16 | 80 | 100 | 250 | 55.0 | 80.0 | -4° | -13° | 3.0 | VN.. 1604.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.



| Ref. | | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
|------|------------------------------|------|------|------|------|------|------|
| | PSC40-MVJNR/L27062-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
| | PSC50-MVJNR/L35065-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
| | PSC63-MVJNR/L45065-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
| | PSC80-MVJNR/L55080-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |

|  | VN.. | | | | Negative 35° rhombic inserts. |
|---|---|---|---|------|-------------------------------|
| | Ref. | VN.. 1604.. | l | s | |
| | | | 16,50 | 4,76 | 9,52 |
| | VNGP | VNMG | VNMG-CMC | | |
| |  |  |  | | |



MVVN



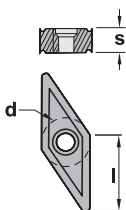
Characteristics:
PSC with internal coolant.

| Ref. | | D _{5m} | D _{m1} min. | D _{m2} min. | f ₁ | l ₁ | γ ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | Kg |
|------|----------------------------|-----------------|-------------------------|-------------------------|----------------|----------------|-----------------|------------------|------------------|-------------|----|
| | PSC40-MVVNN00062-16 | 40 | - | 152 | 0.6 | 62.0 | -4° | -13° | 3.0 | VN.. 1604.. | |
| | PSC50-MVVNN00065-16 | 50 | - | 170 | 0.6 | 65.0 | -4° | -13° | 3.0 | VN.. 1604.. | |
| | PSC63-MVVNN00065-16 | 63 | - | 190 | 0.6 | 65.0 | -4° | -13° | 3.0 | VN.. 1604.. | |
| | PSC80-MVVNN00080-16 | 80 | - | 250 | 0.6 | 80.0 | -4° | -13° | 3.0 | VN.. 1604.. | |

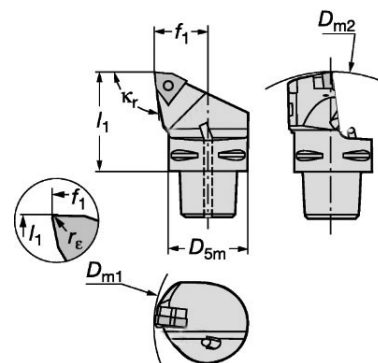
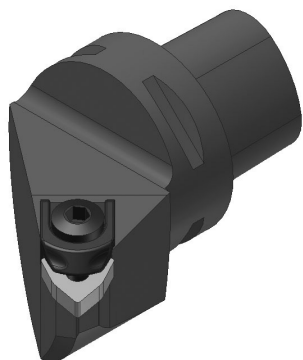
1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.



| Ref. | | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
|------|----------------------------|------|------|------|------|------|------|
| | PSC40-MVVNN00062-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
| | PSC50-MVVNN00065-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
| | PSC63-MVVNN00065-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |
| | PSC80-MVVNN00080-16 | 2614 | 5003 | 3717 | 1086 | 1665 | 5002 |



| Ref. | VN.. | l | s | d | Negative 35° rhombic inserts. | | |
|------|--------------------|-------------|-----------------|------|-------------------------------|--|--|
| | VN.. 1604.. | 16,50 | 4,76 | 9,52 | | | |
| | VNGP | VNMG | VNMG-CMC | | | | |
| | | | | | | | |








MWLN










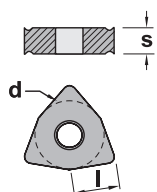
Characteristics:
PSC with internal coolant.

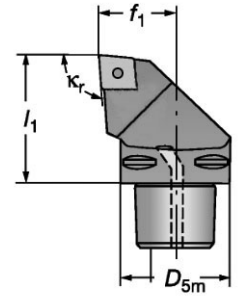
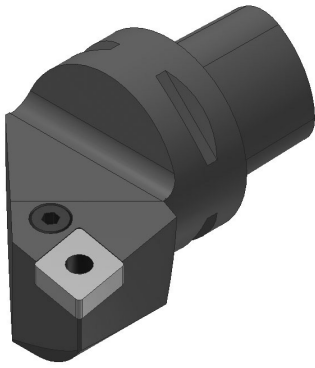
| Ref. | D5m | Dm1 min. | Dm2 min. | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
|----------------------|-----|----------|----------|------|------|-----------------|------------------|------------------|-------------|----|
| PSC50-MWLN/L35060-08 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -6° | 3.9 | WNMG 0804.. | |
| PSC63-MWLN/L45065-08 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 3.9 | WNMG 0804.. | |
| PSC80-MWLN/L55080-08 | 80 | 110 | 250 | 55.0 | 80.0 | -6° | -6° | 3.9 | WNMG 0804.. | |

1) y = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.
3) Nm = Insert moment of force.
4) Valid in combination with the fixing unit R/LC2090.

| Ref. |  |  |  |  |  |
|----------------------|---|---|---|---|---|
| PSC50-MWLN/L35060-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |
| PSC63-MWLN/L45065-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |
| PSC80-MWLN/L55080-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |

| Ref. | WNMG | | | | Negative 80° trigon inserts. | | |
|-------------|---|---|---|---|---|---|---|
| | l | s | d | | | | |
| WNMG 0804.. | 8,14 | 4,76 | 12,70 | | | | |
| | WNMG-CF | WNMG-CFM | WNMG-CM | WNMG-CMC | WNMG-CMF | WNMG-CMR | WNMG-CS |
| |  |  |  |  |  |  |  |



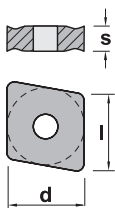


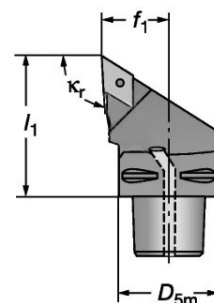
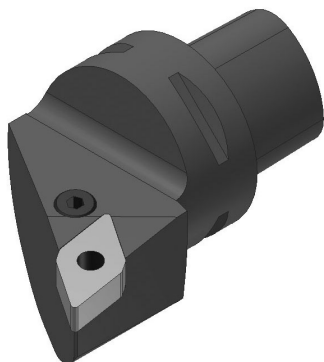
| PCLN | | Characteristics: PSC with internal coolant. | | | | | | | | | Insert | kg |
|------|-----------------------|--|---------------|---------------|------|------|-----------------|------------------|------------------|-------------|--------|----|
| | | D5m | Dm1 min.4) | Dm2 min.4) | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | | | |
| Ref. | PSC40-PCLNR/L27050-12 | 40 | 110 | 140 | 27.0 | 50.0 | -6° | -6° | 3.9 | CN.. 1204.. | | |
| | PSC50-PCLNR/L35060-12 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -6° | 3.9 | CN.. 1204.. | | |
| | PSC63-PCLNR/L45065-12 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 3.9 | CN.. 1204.. | | |
| | PSC63-PCLNR/L45065-16 | 63 | 125 | 190 | 45.0 | 65.0 | -6° | -6° | 6.4 | CN.. 1606.. | | |
| | PSC80-PCLNR/L55080-16 | 80 | 125 | 250 | 55.0 | 80.0 | -6° | -6° | 6.4 | CN.. 1606.. | | |
| | PSC63-PCLNR/L45065-19 | 63 | 81 | 190 | 45.0 | 65.0 | -6° | -6° | 6.4 | CN.. 1906.. | | |
| | PSC80-PCLNR/L55080-19 | 80 | 100 | 250 | 55.0 | 80.0 | -6° | -6° | 6.4 | CN.. 1906.. | | |
| | PSC80-PCLNR/L55080-25 | 80 | 150 | 250 | 55.0 | 80.0 | -6° | -6° | 9.5 | CN.. 2509.. | | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | PSC40-PCLNR/L27050-12 | PSC50-PCLNR/L35060-12 | PSC63-PCLNR/L45065-12 | PSC63-PCLNR/L45065-16 | PSC80-PCLNR/L55080-16 | PSC63-PCLNR/L45065-19 | PSC80-PCLNR/L55080-19 | PSC80-PCLNR/L55080-25 |
|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 8212 | 8312 | 8012 | 8016 | 8016 | 8219 | 8219 | 8125 |
| | 1608 | 1608 | 1608 | 1618 | 1618 | 1610 | 1610 | 1610 |
| | 5025 | 5025 | 5025 | 5003 | 5003 | 5004 | 5004 | 5004 |
| | 3612 | 3612 | 3612 | 3616 | 3616 | 3619 | 3619 | 3625 |
| | 4112 | 4112 | 4112 | 4115 | 4115 | 4129 | 4129 | 4129 |
| | 0012 | 0012 | 0012 | 0015 | 0015 | 0019 | 0019 | 0025 |

| Ref. | CN.. | | | | Negative 80° rhombic inserts. | | | |
|------|-------------|-------------|-------------|-------------|-------------------------------|----------|----------|----------|
| | CN.. 1204.. | CN.. 1606.. | CN.. 1906.. | CN.. 2509.. | CNMG-CF | CNMG-CM | CNMG-CR | CNMG-CS |
| | 12,90 | 16,10 | 19,30 | | | | | |
| | l | s | d | | CNGP | CNMA | CNMG-CFM | CNMG-CFC |
| | 12,70 | 6,35 | 12,70 | | | | | |
| | 15,88 | 6,35 | 19,05 | | CNMG-CMC | CNMG-CMF | CNMG-CMR | CNMM |
| | | | | | | | | |





PDJN



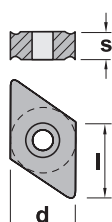
Characteristics:
PSC with internal coolant.

| Ref. | | D5m | Dm1 min. | Dm2 min. | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
|------|------------------------------|-----|----------|----------|------|------|-----------------|------------------|------------------|-------------|----|
| | PSC40-PDJNR/L27055-15 | 40 | 110 | 145 | 27.0 | 55.0 | -6° | -7° | 3.9 | DN.. 1506.. | |
| | PSC50-PDJNR/L35060-15 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -7° | 3.9 | DN.. 1506.. | |
| | PSC63-PDJNR/L45065-15 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -7° | 3.9 | DN.. 1506.. | |
| | PSC80-PDJNR/L55080-15 | 80 | 100 | 250 | 55.0 | 80.0 | -6° | -7° | 3.9 | DN.. 1506.. | |

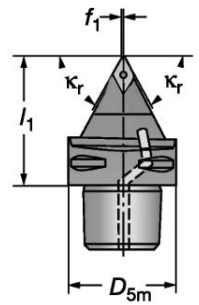
1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.
4) Valid in combination with the fixing unit R/LC2090.



| Ref. | | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
|------|------------------------------|------|------|------|------|------|------|
| | PSC40-PDJNR/L27055-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| | PSC50-PDJNR/L35060-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| | PSC63-PDJNR/L45065-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| | PSC80-PDJNR/L55080-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |



| Ref. | DN.. | l | s | d | Negative 55° rhombic inserts. | | |
|------|--------------------|----------------|-----------------|-----------------|-------------------------------|----------------|--|
| | DN.. 1506.. | 15,50 | 6,35 | 12,70 | DNMA | DNMG-CF | |
| | | | | | | | |
| | DNMG-CFM | DNMG-CM | DNMG-CMF | DNMG-CMR | DNMG-CS | DNMX | |
| | | | | | | | |

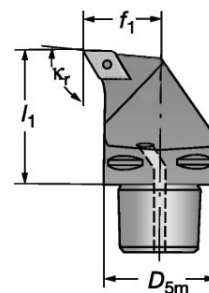
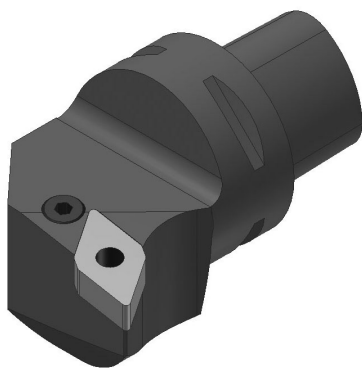


| PDNN | | Characteristics: | | | | | | | | | |
|------|----------------------------|----------------------------|----------------------|----------------------|----------------|----------------|-----------------|------------------------------|------------------|-------------|--|
| | | PSC with internal coolant. | | | | | | | | | |
| Ref. | | D _{5m} | D _{m1} min. | D _{m2} min. | f ₁ | l ₁ | γ ¹⁾ | λ _s ²⁾ | Nm ³⁾ | Insert | |
| | PSC40-PDNNN00055-15 | 40 | - | 145 | 0.5 | 55.0 | -5° | -9° | 3.9 | DN.. 1506.. | |
| | PSC50-PDNNN00060-15 | 50 | - | 165 | 0.5 | 60.0 | -5° | -9° | 3.9 | DN.. 1506.. | |
| | PSC63-PDNNN00065-15 | 63 | - | 190 | 0.5 | 65.0 | -5° | -9° | 3.9 | DN.. 1506.. | |
| | PSC80-PDNNN00080-15 | 80 | - | 250 | 0.5 | 80.0 | -5° | -9° | 3.9 | DN.. 1506.. | |

1) γ= Rake angle (valid a smooth insert).
 2) λ_s= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | | | | | | |
|----------------------------|------|------|------|------|------|------|
| PSC40-PDNNN00055-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| PSC50-PDNNN00060-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| PSC63-PDNNN00065-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| PSC80-PDNNN00080-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |


| Ref. | DN.. | | | | Negative 55° rhombic inserts. | |
|------|-----------------|----------------|-----------------|-----------------|-------------------------------|-------------|
| | DN.. 1506.. | l | s | d | DNMA | DNMG-CF |
| | | 15,50 | 6,35 | 12,70 | | |
| | DNMG-CFM | DNMG-CM | DNMG-CMF | DNMG-CMR | DNMG-CS | DNMX |
| | | | | | | |






PDUN

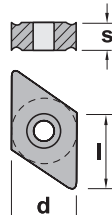
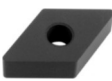
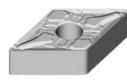
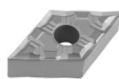
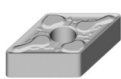
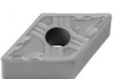
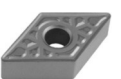
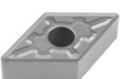



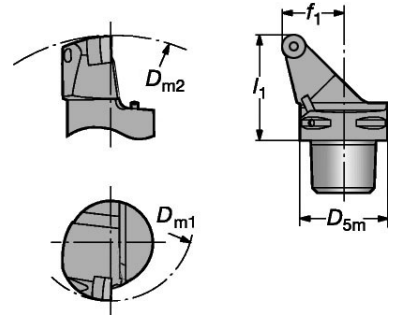
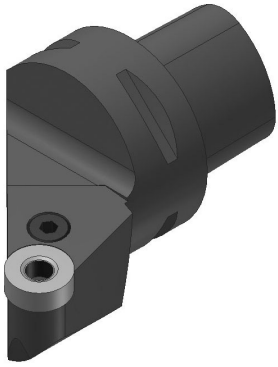
Characteristics:
PSC with internal coolant.

| Ref. | D5m | Dm1 min. | Dm2 min. | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert |  |
|-----------------------|-----|----------|----------|------|------|-----------------|------------------|------------------|-------------|---|
| PSC40-PDUNR/L27050-15 | 40 | 110 | 140 | 27.0 | 50.0 | -6° | -7° | 3.9 | DN.. 1506.. | |
| PSC50-PDUNR/L35060-15 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -7° | 3.9 | DN.. 1506.. | |
| PSC63-PDUNR/L45065-15 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -7° | 3.9 | DN.. 1506.. | |
| PSC80-PDUNR/L55080-15 | 80 | 110 | 250 | 55.0 | 80.0 | -6° | -7° | 3.9 | DN.. 1506.. | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.
4) Valid in combination with the fixing unit R/LC2090.

| Ref. |  |  |  |  |  |  |
|-----------------------|---|---|---|--|---|---|
| PSC40-PDUNR/L27050-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| PSC50-PDUNR/L35060-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| PSC63-PDUNR/L45065-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |
| PSC80-PDUNR/L55080-15 | 8415 | 1638 | 5003 | 3715 | 4112 | 0012 |

|  | DN.. | | | | Negative 55° rhombic inserts. | | |
|---|---|---|---|---|--|---|---|
| | Ref. | DN.. 1506.. | l | s | d | DNMA | DNMG-CF |
| | | | 15,50 | 6,35 | 12,70 |  |  |
| | DNMG-CFM | DNMG-CM | DNMG-CMF | DNMG-CMR | DNMG-CS | DNMX | |
| |  |  |  |  |  |  | |

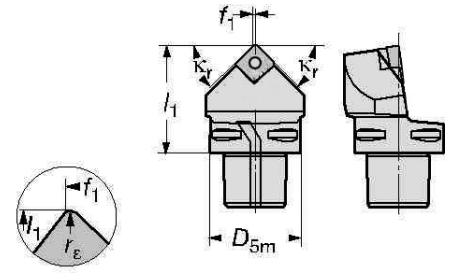


| PRSN | | Characteristics: PSC with internal coolant. | | | | | | | | | |
|------|-----------------------|--|-------------------------|-------------------------|----------------|----------------|-----------------|------------------|------------------|-------------|----|
| | | D _{5m} | D _{m1} min. | D _{m2} min. | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
| Ref. | PSC40-PRSNR/L27050-12 | 40 | 110 | 140 | 27.0 | 50.0 | -6° | -6° | 3.9 | RNMG 1204.. | |
| | PSC50-PRSNR/L35060-12 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -6° | 3.9 | RNMG 1204.. | |
| | PSC63-PRSNR/L45065-12 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 3.9 | RNMG 1204.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | PSC40-PRSNR/L27050-12 | 8012 | 1608 | 5003 | 3912 | 4112 | 0012 |
|------|-----------------------|------|------|------|------|------|------|
| | PSC50-PRSNR/L35060-12 | 8012 | 1608 | 5003 | 3912 | 4112 | 0012 |
| | PSC63-PRSNR/L45065-12 | 8012 | 1608 | 5003 | 3912 | 4112 | 0012 |

| | RNMG | | | Negative round inserts. | | | |
|--|-------------|------|-------|-------------------------|--|--|--|
| | Ref. | s | d | | | | |
| | RNMG 1204.. | 4,76 | 12,70 | | | | |
| | RNMG | | | | | | |
| | | | | | | | |



PSDN



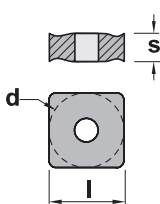
Characteristics:
PSC with internal coolant.

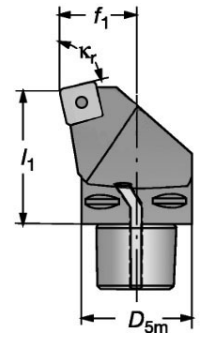
| Ref. | | D _{5m} | D _{m2} min. | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
|------|---------------------|-----------------|-------------------------|----------------|----------------|-----------------|------------------|------------------|--------------|----|
| Ref. | PSC40-PSDNN00050-12 | 40 | 140 | 0.3 | 50.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC50-PSDNN00060-12 | 50 | 165 | 0.3 | 60.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSDNN00065-12 | 63 | 190 | 0.3 | 65.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSDNN00070-19 | 63 | 195 | 0.5 | 70.0 | -6° | -6° | 6.4 | SNM.. 1906.. | |
| | PSC80-PSDNN00080-25 | 80 | 250 | 1.0 | 80.0 | -6° | -6° | 9.5 | SNM.. 2507.. | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.
4) Valid in combination with the fixing unit R/LC2090.

| Ref. | | | | | | | |
|------|---------------------|------|------|------|------|------|------|
| Ref. | PSC40-PSDNN00050-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| | PSC50-PSDNN00060-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| | PSC63-PSDNN00065-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| | PSC63-PSDNN00070-19 | 8019 | 1610 | 5004 | 3519 | 4119 | 0019 |
| | PSC80-PSDNN00080-25 | 8025 | 1612 | 5005 | 3525 | 4125 | 0025 |

| Ref. | SNM.. | l | s | d | Negative square inserts. | | | | | | |
|------|--------------|--------------|----------|---------|--------------------------|--|--|--|--|--|--|
| | | SNM.. 1204.. | 12,70 | 4,76 | 12,70 | | | | | | |
| | SNM.. 1906.. | 19,05 | 6,35 | 19,05 | | | | | | | |
| | SNM.. 2507.. | 25,40 | 7,94 | 25,40 | | | | | | | |
| | SNMA | SNMG-CFM | SNMG-CMR | SNMG-CR | SNMM | | | | | | |
| | | | | | | | | | | | |



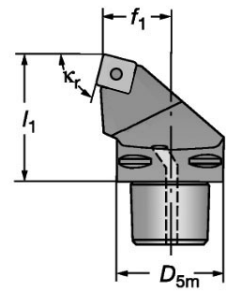
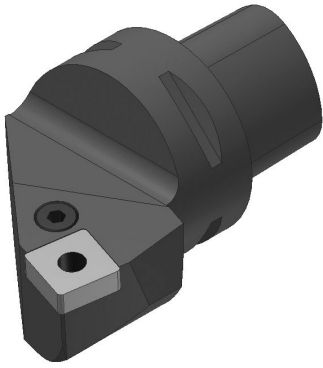


| PSKN | | Characteristics: | | | | | | | | |
|------|-----------------------|----------------------------|----------|------|------|-----------------|------------------|------------------|--------------|----|
| | | PSC with internal coolant. | | | | | | | | |
| Ref. | | D5m | Dm1 min. | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
| | PSC40-PSKNR/L27050-12 | 40 | 110 | 27.0 | 50.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC50-PSKNR/L35060-12 | 50 | 110 | 35.0 | 60.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSKNR/L45065-12 | 63 | 110 | 45.0 | 65.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSKNR/L45065-19 | 63 | 125 | 45.0 | 65.0 | -6° | -6° | 6.4 | SNM.. 1906.. | |
| | PSC80-PSKNR/L55080-19 | 80 | 125 | 55.0 | 80.0 | -6° | -6° | 6.4 | SNM.. 1906.. | |
| | PSC80-PSKNR/L55080-25 | 80 | 150 | 55.0 | 80.0 | -6° | -6° | 9.5 | SNM.. 2507.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | | | | | | | |
|------|-----------------------|------|------|------|------|------|------|
| | PSC40-PSKNR/L27050-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| | PSC50-PSKNR/L35060-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| | PSC63-PSKNR/L45065-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| | PSC63-PSKNR/L45065-19 | 8019 | 1610 | 5004 | 3519 | 4119 | 0019 |
| | PSC80-PSKNR/L55080-19 | 8019 | 1610 | 5004 | 3519 | 4119 | 0019 |
| | PSC80-PSKNR/L55080-25 | 8025 | 1612 | 5005 | 3525 | 4125 | 0025 |

| Ref. | SNM.. | l | s | d | Negative square inserts. | | | | | |
|------|--------------|--------------|----------|---------|--------------------------|--|--|--|--|--|
| | | SNM.. 1204.. | 12,70 | 4,76 | 12,70 | | | | | |
| | SNM.. 1906.. | 19,05 | 6,35 | 19,05 | | | | | | |
| | SNM.. 2507.. | 25,40 | 7,94 | 25,40 | | | | | | |
| | SNMA | SNMG-CFM | SNMG-CMR | SNMG-CR | SNMM | | | | | |
| | | | | | | | | | | |

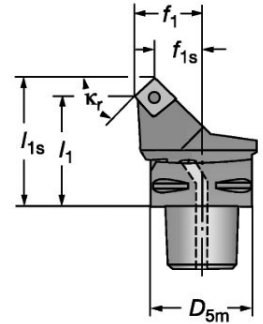
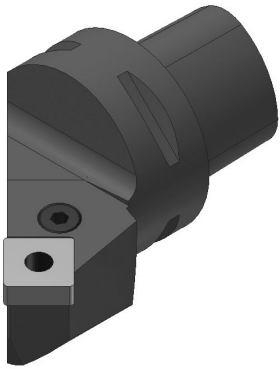


| PSRN | | Characteristics: PSC with internal coolant. | | | | | | | | |
|------|-----------------------|--|----------|------|------|-----------------|------------------|------------------|--------------|----|
| | | D5m | Dm2 min. | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
| Ref. | PSC40-PSRNR/L22050-12 | 40 | 140 | 22.0 | 50.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC50-PSRNR/L27060-12 | 50 | 165 | 27.0 | 60.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSRNR/L35065-12 | 63 | 190 | 35.0 | 65.0 | -6° | -6° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSRNR/L35065-19 | 63 | 190 | 35.0 | 65.0 | -6° | -6° | 6.4 | SNM.. 1906.. | |
| | PSC80-PSRNR/L45080-19 | 80 | 250 | 45.0 | 80.0 | -6° | -6° | 6.4 | SNM.. 1906.. | |
| | PSC80-PSRNR/L45080-25 | 80 | 250 | 45.0 | 80.0 | -6° | -6° | 9.5 | SNM.. 2507.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | | | | | | |
|-----------------------|------|------|------|------|------|------|
| PSC40-PSRNR/L22050-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| PSC50-PSRNR/L27060-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| PSC63-PSRNR/L35065-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| PSC63-PSRNR/L35065-19 | 8019 | 1610 | 5004 | 3519 | 4119 | 0019 |
| PSC80-PSRNR/L45080-19 | 8019 | 1610 | 5004 | 3519 | 4119 | 0019 |
| PSC80-PSRNR/L45080-25 | 8025 | 1612 | 5005 | 3525 | 4125 | 0025 |

| Ref. | SNM.. | | | | Negative square inserts. | |
|------|--------------|--------------|--------------|-------|--------------------------|-------|
| | SNM.. 1204.. | SNM.. 1906.. | SNM.. 2507.. | l | s | d |
| | | | | 12,70 | 4,76 | 12,70 |
| | | | | 19,05 | 6,35 | 19,05 |
| | | | | 25,40 | 7,94 | 25,40 |
| SNMA | SNMG-CFM | SNMG-CMR | SNMG-CR | SNMM | | |
| | | | | | | |

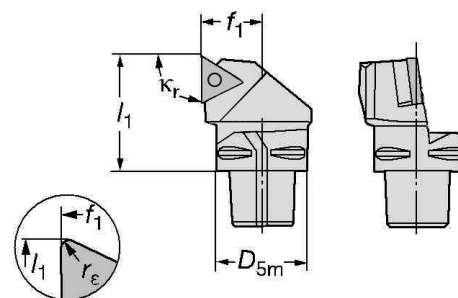
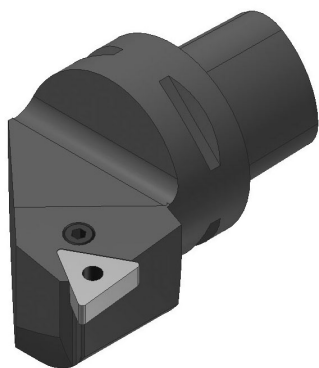



| PSSN | | Characteristics: PSC with internal coolant. | | | | | | | | | | Insert | |
|------|-----------------------|--|----------|----------|------|------|------|------|-----------------|------------------|------------------|--------------|--|
| | | D5m | Dm1 min. | Dm2 min. | f1 | f1s | l1 | l1s | y ¹⁾ | λs ²⁾ | Nm ³⁾ | | |
| Ref. | PSC40-PSSNR/L27042-12 | 40 | 110 | 140 | 27.0 | 18.7 | 42.0 | 50.3 | -8° | -0° | 3.9 | SNM.. 1204.. | |
| | PSC50-PSSNR/L35052-12 | 50 | 110 | 165 | 35.0 | 26.7 | 52.0 | 60.3 | -8° | -0° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSSNR/L45056-12 | 63 | 110 | 190 | 45.0 | 36.7 | 56.0 | 64.3 | -8° | -0° | 3.9 | SNM.. 1204.. | |
| | PSC63-PSSNR/L45052-19 | 63 | 125 | 190 | 45.0 | 32.5 | 52.0 | 64.5 | -8° | -0° | 6.4 | SNM.. 1906.. | |
| | PSC80-PSSNR/L55070-25 | 80 | 150 | 256 | 55.0 | 39.0 | 70.0 | 86.0 | -8° | -0° | 9.5 | SNM.. 2507.. | |

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.







| Ref. | | | | | | |
|-----------------------|------|------|------|------|------|------|
| PSC40-PSSNR/L27042-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| PSC50-PSSNR/L35052-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| PSC63-PSSNR/L45056-12 | 8012 | 1608 | 5003 | 3512 | 4112 | 0012 |
| PSC63-PSSNR/L45052-19 | 8019 | 1610 | 5004 | 3519 | 4119 | 0019 |
| PSC80-PSSNR/L55070-25 | 8025 | 1612 | 5005 | 3525 | 4125 | 0025 |











| Ref. | SNM.. | l | s | d | Negative square inserts. | | |
|--------------|--------------|----------|----------|---------|--------------------------|--|--|
| | SNM.. 1204.. | 12,70 | 4,76 | 12,70 | | | |
| SNM.. 1906.. | 19,05 | 6,35 | 19,05 | | | | |
| SNM.. 2507.. | 25,40 | 7,94 | 25,40 | | | | |
| | SNMA | SNMG-CFM | SNMG-CMR | SNMG-CR | SNMM | | |
| | | | | | | | |

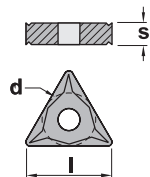


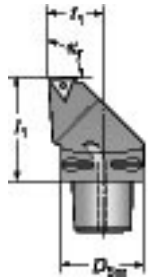
| PTGN | | Characteristics: PSC with internal coolant. | | | | | | | | | |
|------|-----------------------|--|----------|----------|------|------|-----------------|------------------|------------------|--------------|---|
| | | D5m | Dm1 min. | Dm2 min. | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert |  |
| Ref. | PSC40-PTGNR/L27050-16 | 40 | 110 | 140 | 27.0 | 50.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC50-PTGNR/L35060-16 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC63-PTGNR/L45065-16 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC63-PTGNR/L45065-22 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 3.9 | TNM.. 2204.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. |  |  |  |  |  |  |
|-----------------------|---|---|---|--|---|---|
| PSC40-PTGNR/L27050-16 | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| PSC50-PTGNR/L35060-16 | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| PSC63-PTGNR/L45065-16 | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| PSC63-PTGNR/L45065-22 | 8012 | 1608 | 5003 | 3422 | 4112 | 0012 |

| Ref. | TNM.. | | | | Negative triangular inserts. | | | |
|------|---|---|---|---|---|---|---|---|
| | TNM.. 1604.. | TNM.. 2204.. | l | s | d | TNMA | TNMG-CF | TNMG-CFC |
| | | | 16,50 | 4,76 | 9,52 |  |  |  |
| | | | 22,00 | 4,76 | 12,70 | | | |
| | TNMG-CFM | TNMG-CM | TNMG-CMC | TNMG-CMF | TNMG-CMR | TNMG-CS | TNMX R/L | |
| |  |  |  |  |  |  |  | |



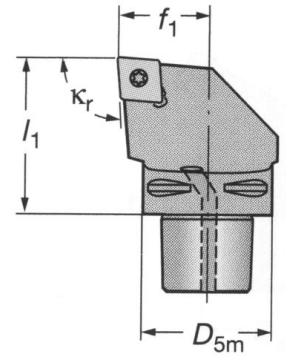
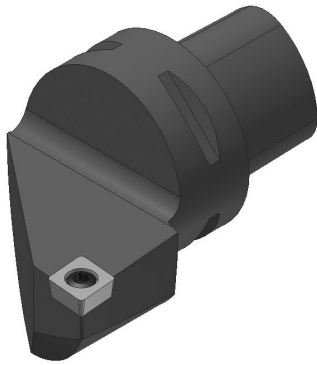


| PTFN | | Characteristics: | | | | | | | | | |
|------|-----------------------|----------------------------|----------|----------|------|------|-----|------|------|--------------|----|
| | | PSC with internal coolant. | | | | | | | | | |
| Ref. | | D5m | Dm1 min. | Dm2 min. | f1 | l1 | y1) | λs2) | Nm3) | Insert | Kg |
| | PSC40-PTFNR/L27050-16 | 40 | 110 | 140 | 27.0 | 50.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC50-PTFNR/L35060-16 | 50 | 110 | 165 | 35.0 | 60.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |
| | PSC63-PTFNR/L45065-16 | 63 | 110 | 190 | 45.0 | 65.0 | -6° | -6° | 1.7 | TNM.. 1604.. | |

1) γ = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | | | | | | | |
|------|-----------------------|------|------|------|------|------|------|
| | PSC40-PTFNR/L27050-16 | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC50-PTFNR/L35060-16 | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC63-PTFNR/L45065-16 | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |

| | TNM.. | | | | Negative triangular inserts. | | | |
|--|-------|--------------|---|-------|------------------------------|------|----------|--------------|
| | Ref. | TNM.. 1604.. | l | s | d | TNMA | TNMG-CF | TNMG-CFC |
| | | | | 16,50 | 4,76 | 9,52 | | |

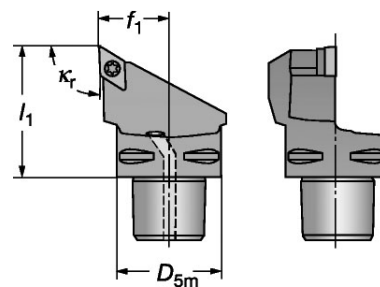


| SCLC | | Characteristics: PSC with internal coolant. | | | | | | | |
|-------------|------------------------------|---|----------------|----------------|-----------------|------------------|------------------|-------------|----|
| Ref. | | D _{5m} | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | Kg |
| | PSC40-SCLCR/L27050-09 | 40 | 27.0 | 50.0 | 0° | 0° | 3.0 | CC.. 09T3.. | |
| | PSC50-SCLCR/L35060-09 | 50 | 35.0 | 60.0 | 0° | 0° | 3.0 | CC.. 09T3.. | |
| | PSC63-SCLCR/L45065-12 | 63 | 45.0 | 65.0 | 0° | 0° | 3.0 | CC.. 1204.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) Valid in combination with the fixing unit R/LC2090.

| Ref. | | | | |
|------------------------------|------|------|------|------|
| PSC40-SCLCR/L27050-09 | 1240 | 5515 | - | - |
| PSC50-SCLCR/L35060-09 | 1240 | 5515 | - | - |
| PSC63-SCLCR/L45065-12 | 1540 | 5517 | 3614 | 1760 |

| | Ref. | CC.. | l | s | d | Positive 7° clearance - 80° rhombic inserts. |
|--|--------------------|--------------------|----------------|-------------|-------|--|
| | | CC.. 09T3.. | | 9,65 | 3,97 | |
| | CC.. 1204.. | | 12,90 | 4,76 | 12,70 | |
| | CCGT-AL | CCGT-AP | CCMT-03 | CCMW | | |
| | | | | | | |



SDJC



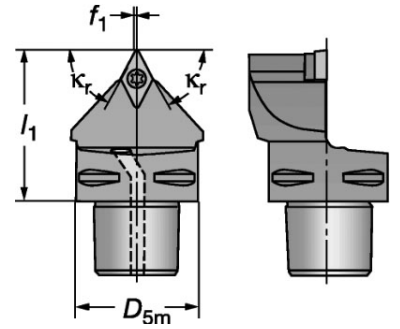
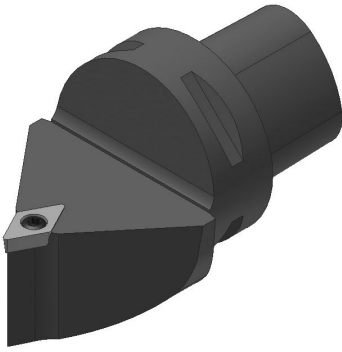
Characteristics:
PSC with internal coolant.

| Ref. | | D _{5m} | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
|------|------------------------------|-----------------|----------------|----------------|-----------------|------------------|------------------|-------------|----|
| | PSC40-SDJCR/L27050-11 | 40 | 27.0 | 50.0 | 0° | 0° | 3.0 | DC.. 11T3.. | |
| | PSC50-SDJCR/L35060-11 | 50 | 35.0 | 60.0 | 0° | 0° | 3.0 | DC.. 11T3.. | |
| | PSC63-SDJCR/L45065-11 | 63 | 45.0 | 65.0 | 0° | 0° | 3.0 | DC.. 11T3.. | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.
4) Valid in combination with the fixing unit R/LC2090.





| Ref. | | | | |
|------------------------------|------|------|------|------|
| PSC40-SDJCR/L27050-11 | 1335 | 5516 | 3714 | 1750 |
| PSC50-SDJCR/L35060-11 | 1335 | 5516 | 3714 | 1750 |
| PSC63-SDJCR/L45065-11 | 1335 | 5516 | 3714 | 1750 |

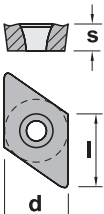
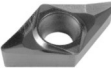

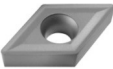
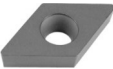
| | DC.. | | | | Positive 7° clearance - 55° rhombic inserts. |
|--|----------------|----------------|----------------|-------------|--|
| | Ref. | DC.. 11T3.. | l | s | |
| | | | 11,60 | 3,97 | 9,52 |
| | DCGT-AL | DCGT-AP | DCMT-03 | DCMW | |
| | | | | | |

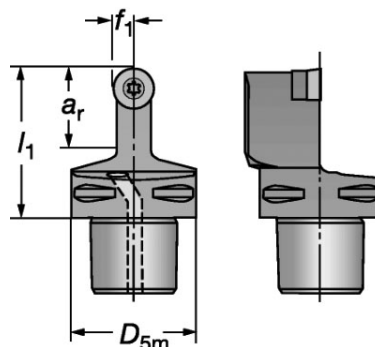
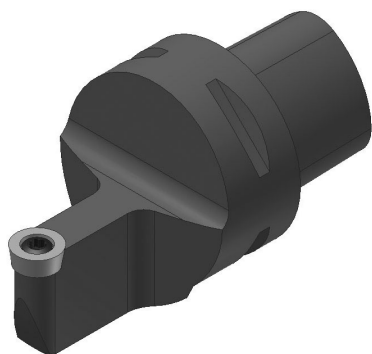


| SDNC | | Characteristics: | | | | | | | |
|------|---------------------|----------------------------|-----|------|-----------------|------------------|------------------|-------------|----|
| | | PSC with internal coolant. | | | | | | | |
| Ref. | | D5m | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | Kg |
| | PSC40-SDNCN00050-11 | 40 | 0.5 | 50.0 | 0° | 0° | 3.0 | DC.. 11T3.. | |
| | PSC50-SDNCN00060-11 | 50 | 0.5 | 60.0 | 0° | 0° | 3.0 | DC.. 11T3.. | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.





| Ref. | |  |  |  |  |
|------|---------------------|---|---|---|---|
| | PSC40-SDNCN00050-11 | 1335 | 5516 | 3714 | 1750 |
| | PSC50-SDNCN00060-11 | 1335 | 5516 | 3714 | 1750 |

|  | DC.. | | | | Positive 7° clearance - 55° rhombic inserts. | | |
|---|---|---|---|---|--|--|--|
| | Ref. | DC.. 11T3.. | l | s | | | |
| | DCGT-AL | DCGT-AP | DCMT-03 | DCMW | | | |
| |  |  |  |  | | | |

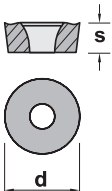


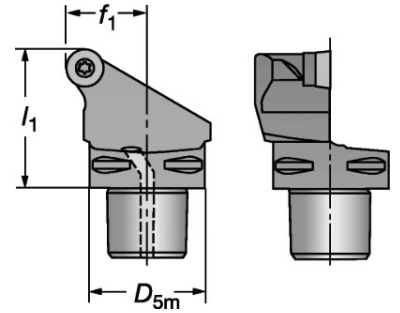
| SRDC | | Characteristics: | | | | | | | | |
|------|----------------------|----------------------------|-----|------|------|-----------------|------------------|------------------|-------------|----|
| | | PSC with internal coolant. | | | | | | | | |
| Ref. | | ar | D5m | f1 | l1 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
| | PSC40-SRDCN00050-10A | 25 | 40 | 5.0 | 50.0 | 0° | 0° | 3.0 | RC.. 10T3M0 | |
| | PSC50-SRDCN00060-10A | 25 | 50 | 5.0 | 60.0 | 0° | 0° | 3.0 | RC.. 10T3M0 | |
| | PSC63-SRDCN00065-10A | 25 | 63 | 5.0 | 65.0 | 0° | 0° | 3.0 | RC.. 10T3M0 | |
| | PSC40-SRDCN00050-12A | 28 | 40 | 6.0 | 50.0 | 0° | 0° | 3.0 | RC.. 1204M0 | |
| | PSC50-SRDCN00060-12A | 28 | 50 | 6.0 | 60.0 | 0° | 0° | 3.0 | RC.. 1204M0 | |
| | PSC63-SRDCN00065-12A | 28 | 63 | 6.0 | 65.0 | 0° | 0° | 3.0 | RC.. 1204M0 | |
| | PSC63-SRDCN00065-16A | 35 | 63 | 8.0 | 65.0 | 0° | 0° | 6.4 | RC.. 1606M0 | |
| | PSC63-SRDCN00065-20A | 40 | 63 | 10.0 | 65.0 | 0° | 0° | 9.5 | RC.. 2006M0 | |



1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.





| Ref. |  |  |  |  |
|----------------------|---|---|---|---|
| PSC40-SRDCN00050-10A | 1335 | 5516 | 3811 | 1750 |
| PSC50-SRDCN00060-10A | 1335 | 5516 | 3811 | 1750 |
| PSC63-SRDCN00065-10A | 1335 | 5516 | 3811 | 1750 |
| PSC40-SRDCN00050-12A | 1335 | 5516 | 3814 | 1750 |
| PSC50-SRDCN00060-12A | 1335 | 5516 | 3814 | 1750 |
| PSC63-SRDCN00065-12A | 1335 | 5516 | 3814 | 1750 |
| PSC63-SRDCN00065-16A | 1335 | 5516 | 3814 | 1750 |
| PSC63-SRDCN00065-20A | 1335 | 5516 | 3814 | 1750 |

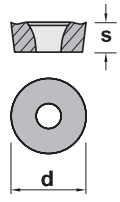


| Ref. | RC.. | s | d | Positive 7° clearance - Round inserts. | | | |
|------|-------------|-------------|-------|--|--|--|--|
| | | RC.. 10T3M0 | 3,97 | 10,00 | | | |
| | RC.. 1204M0 | 4,76 | 12,00 | | | | |
| | RC.. 1606M0 | 6,35 | 16,00 | | | | |
| | RC.. 2006M0 | 6,35 | 20,00 | | | | |
| | RCGT-AL | | | | | | |
| | RCMT | | | | | | |

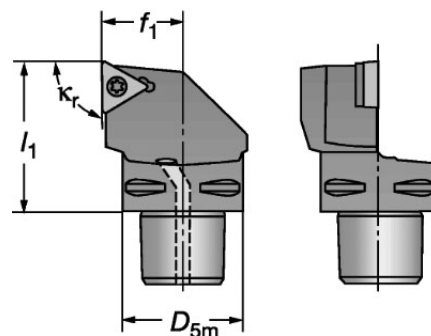
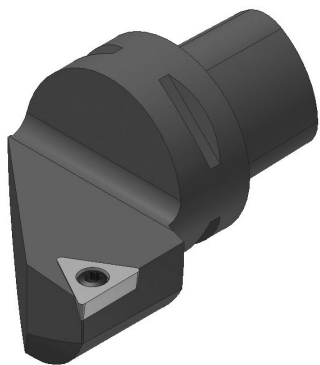




| SRSC | |  Characteristics: | | PSC with internal coolant. | | | | | | |
|-------------|---|---|-------|----------------------------|--------|----------------|------------------|-------------|---|--|
| | | D_{5m} | f_1 | l_1 | $y^1)$ | $\lambda s^2)$ | Nm ³⁾ | Insert |  | |
| Ref. | PSC40-SRSCR/L27050-10 | 40 | 27.0 | 50.0 | 0° | 0° | 3.0 | RC.. 10T3M0 | | |
| | PSC50-SRSCR/L35060-10 | 50 | 35.0 | 60.0 | 0° | 0° | 3.0 | RC.. 10T3M0 | | |
| | PSC63-SRSCR/L45065-10 | 63 | 45.0 | 65.0 | 0° | 0° | 3.0 | RC.. 10T3M0 | | |
| | PSC50-SRSCR/L35060-12 | 50 | 35.0 | 60.0 | 0° | 0° | 3.0 | RC.. 1204M0 | | |
| | PSC63-SRSCR/L45065-12 | 63 | 45.0 | 65.0 | 0° | 0° | 3.0 | RC.. 1204M0 | | |
| | PSC63-SRSCR/L45065-16 | 63 | 45.0 | 65.0 | 0° | 0° | 6.4 | RC.. 1606M0 | | |
| | PSC50-SRSCR/L35060-20 | 50 | 35.0 | 60.0 | 0° | 0° | 9.5 | RC.. 2006M0 | | |
| | 1) y = Rake angle (valid a smooth insert). 2) λs = Angle of inclination. 3) Nm = Insert moment of force. | | | | | | | | | |

| Ref. |  |  |  |  |
|------------------------------|---|---|---|---|
| PSC40-SRSCR/L27050-10 | 1335 | 5516 | 3811 | 1750 |
| PSC50-SRSCR/L35060-10 | 1335 | 5516 | 3811 | 1750 |
| PSC63-SRSCR/L45065-10 | 1335 | 5516 | 3811 | 1750 |
| PSC50-SRSCR/L35060-12 | 1335 | 5516 | 3814 | 1750 |
| PSC63-SRSCR/L45065-12 | 1335 | 5516 | 3814 | 1750 |
| PSC63-SRSCR/L45065-16 | 1335 | 5516 | 3814 | 1750 |
| PSC50-SRSCR/L35060-20 | 1335 | 5516 | 3814 | 1750 |

|  | RC.. | | | Positive 7° clearance - Round inserts. |
|---|---|---|-------|--|
| | Ref. | s | d | |
| | RC.. 10T3M0 | 3,97 | 10,00 | |
| | RC.. 1204M0 | 4,76 | 12,00 | |
| | RC.. 1606M0 | 6,35 | 16,00 | |
| | RC.. 2006M0 | 6,35 | 20,00 | |
| | RCGT-AL | RCMT | | |
| |  |  | | |







STGC


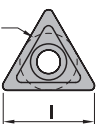





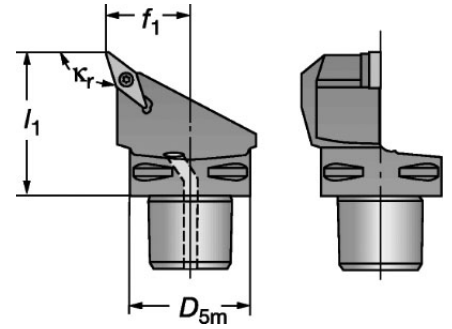
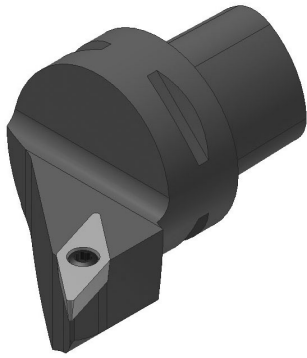
Characteristics:
PSC with internal coolant.


| Ref. | D _{5m} | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
|-----------------------|-----------------|----------------|----------------|-----------------|------------------|------------------|-------------|----|
| PSC40-STGCR/L27050-16 | 40 | 27.0 | 50.0 | 0° | 0° | 3.0 | TC.. 16T3.. | |
| PSC50-STGCR/L35060-16 | 50 | 35.0 | 60.0 | 0° | 0° | 3.0 | TC.. 16T3.. | |
| PSC63-STGCR/L45065-16 | 63 | 45.0 | 65.0 | 0° | 0° | 3.0 | TC.. 16T3.. | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.
4) B1= To insert thickness 03=3,18 mm.





| Ref. |  |  |  |  |
|-----------------------|---|---|---|---|
| PSC40-STGCR/L27050-16 | 1335 | 5516 | 3414 | 1750 |
| PSC50-STGCR/L35060-16 | 1335 | 5516 | 3414 | 1750 |
| PSC63-STGCR/L45065-16 | 1335 | 5516 | 3414 | 1750 |

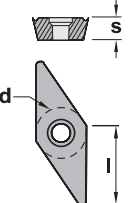

|   | TC.. | | | | Positive 7° clearance - Triangular inserts. |
|--|---|---|---|---|---|
| | Ref. | TC.. 16T3.. | l | s | |
| | TCGT-AL | TCMT-03 | TCMW | | |
| |  |  |  | | |

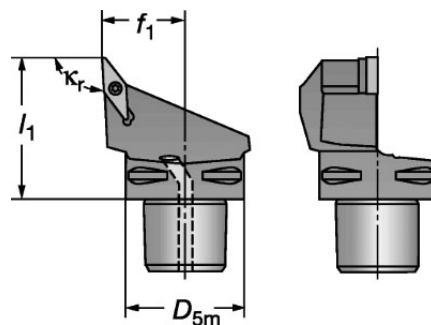
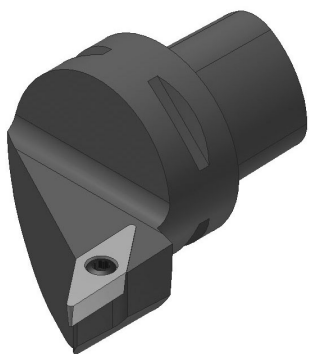


| SVHB | | Characteristics: PSC with internal coolant. | | | | | | | |
|------|-----------------------|--|----------------|----------------|-----------------|------------------|------------------|-------------|---|
| | | D _{5m} | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert |  |
| Ref. | PSC40-SVHBR/L27050-16 | 40 | 27.0 | 50.0 | 0° | 0° | 3.0 | VBMT 1604.. | |
| | PSC50-SVHBR/L35060-16 | 50 | 35.0 | 60.0 | 0° | 0° | 3.0 | VBMT 1604.. | |
| | PSC63-SVHBR/L45065-16 | 63 | 45.0 | 65.0 | 0° | 0° | 3.0 | VBMT 1604.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) B1= To insert thickness 03=3,18 mm.

| Ref. |  |  |  |  |
|-----------------------|---|---|---|---|
| PSC40-SVHBR/L27050-16 | 1335 | 5516 | 3718 | 1750 |
| PSC50-SVHBR/L35060-16 | 1335 | 5516 | 3718 | 1750 |
| PSC63-SVHBR/L45065-16 | 1335 | 5516 | 3718 | 1750 |

|  | VBMT | | | | Positive 5° clearance - 35° rhombic inserts. |
|---|-------------|-------|------|------|--|
| | Ref. | l | s | d | |
| | VBMT 1604.. | 16,50 | 4,76 | 9,52 | |
| | VBMT | | | | |
|  | | | | | |



SVJB



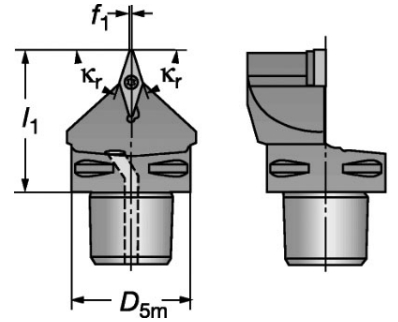
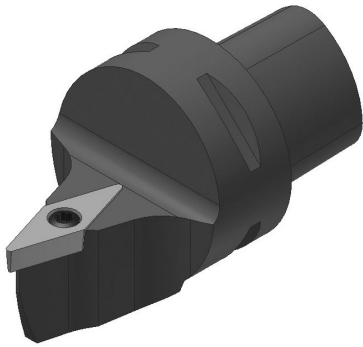
Characteristics:
PSC with internal coolant.



| Ref. | D _{5m} | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
|-----------------------|-----------------|----------------|----------------|-----------------|------------------|------------------|-------------|----|
| PSC40-SVJBR/L27050-16 | 40 | 27.0 | 50.0 | 0° | 0° | 3.0 | VBMT 1604.. | |
| PSC50-SVJBR/L35060-16 | 50 | 35.0 | 60.0 | 0° | 0° | 3.0 | VBMT 1604.. | |
| PSC63-SVJBR/L45065-16 | 63 | 45.0 | 65.0 | 0° | 0° | 3.0 | VBMT 1604.. | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.
4) B1= To insert thickness 03=3,18 mm.





| Ref. | | | | |
|-----------------------|------|------|------|------|
| PSC40-SVJBR/L27050-16 | 1335 | 5516 | 3718 | 1750 |
| PSC50-SVJBR/L35060-16 | 1335 | 5516 | 3718 | 1750 |
| PSC63-SVJBR/L45065-16 | 1335 | 5516 | 3718 | 1750 |

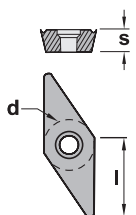

| VBMT | | l | s | d | Positive 5° clearance - 35° rhombic inserts. |
|-------------|-------------|----------|----------|----------|--|
| Ref. | VBMT 1604.. | 16,50 | 4,76 | 9,52 | |
| | | | | | |

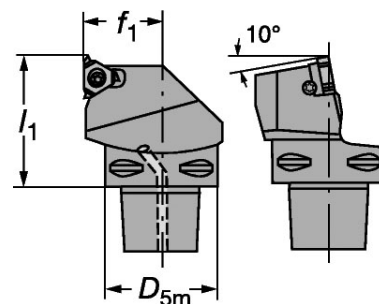


| SVVB | |  Characteristics: PSC with internal coolant. | | | | | | | |
|-------------|----------------------------|---|----------------|----------------|-----------------|------------------|------------------|-------------|---|
| Ref. | | D _{5m} | f ₁ | l ₁ | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert |  |
| | PSC40-SVVBN00050-16 | 40 | 0.6 | 50.0 | 0° | 0° | 3.0 | VBMT 1604.. | |
| | PSC50-SVVBN00060-16 | 50 | 0.6 | 60.0 | 0° | 0° | 3.0 | VBMT 1604.. | |
| | PSC63-SVVBN00065-16 | 63 | 0.6 | 65.0 | 0° | 0° | 3.0 | VBMT 1604.. | |

1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) B1= To insert thickness 03=3,18 mm.

| Ref. |  |  |  |  |
|----------------------------|---|---|---|---|
| PSC40-SVVBN00050-16 | 1335 | 5516 | 3718 | 1750 |
| PSC50-SVVBN00060-16 | 1335 | 5516 | 3718 | 1750 |
| PSC63-SVVBN00065-16 | 1335 | 5516 | 3718 | 1750 |


|  | VBMT | | | | Positive 5° clearance - 35° rhombic inserts. |
|---|--------------------|-------|------|------|--|
| | Ref. | l | s | d | |
| | VBMT 1604.. | 16,50 | 4,76 | 9,52 | |
| | VBMT | | | | |
|  | | | | | |








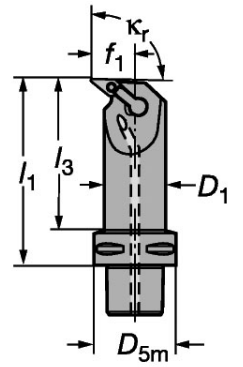
SXGN



Characteristics:
PSC with internal coolant.

| Ref. | | D5m | f1 | l1 | Nm ² |  |
|--|--|-----|----|----|-----------------|---|
| PSC40-SXGNR/L27050-16 PSC50-SXGNR/L35060-16 PSC63-SXGNR/L45065-16 | | 40 | 27 | 50 | 1.7 | |
| | | 50 | 35 | 60 | 1.7 | |
| | | 63 | 45 | 65 | 1.7 | |
| PSC40-SXGNR/L27050-22 PSC50-SXGNR/L35060-22 PSC63-SXGNR/L45065-22 PSC80-SXGNR/L55080-22 | | 40 | 27 | 50 | 3.9 | |
| | | 50 | 35 | 60 | 3.9 | |
| | | 63 | 45 | 65 | 3.9 | |
| | | 80 | 55 | 80 | 3.9 | |

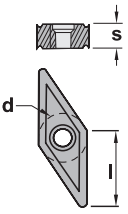



| Ref. |  |  |  |  |  |
|--|---|---|---|---|---|
| PSC40-SXGNR/L27050-16 PSC50-SXGNR/L35060-16 PSC63-SXGNR/L45065-16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| | 1335 | 5515 | 3424 | 3425 | 1093 |
| | 1335 | 5515 | 3424 | 3425 | 1093 |
| PSC40-SXGNR/L27050-22 PSC50-SXGNR/L35060-22 PSC63-SXGNR/L45065-22 PSC80-SXGNR/L55080-22 | 1340 | 5515 | 3430 | 3431 | 1094 |
| | 1340 | 5515 | 3430 | 3431 | 1094 |
| | 1340 | 5515 | 3430 | 3431 | 1094 |
| | 1340 | 5515 | 3430 | 3431 | 1094 |

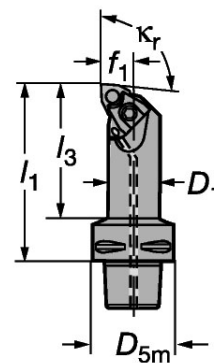


| MVUN | | Characteristics: | | | | | | | | | Insert | Kg |
|------|-----------------------|----------------------------|----|---------|------|-------|-------|-----|------|-----------------|--------|----|
| | | PSC with internal coolant. | | Dm min. | D1 | D5m | f1 | l1 | l3 | y ¹⁾ | | |
| Ref. | PSC40-MVUNR/L27120-16 | 50.0 | 40 | 40 | 27.0 | 120.0 | 100.0 | -6° | -10° | VN.. 1604.. | | |
| | PSC50-MVUNR/L27140-16 | 50.0 | 40 | 50 | 27.0 | 140.0 | 119.0 | -6° | -10° | VN.. 1604.. | | |
| | PSC50-MVUNR/L35150-16 | 63.0 | 50 | 50 | 35.0 | 150.0 | 131.0 | -6° | -10° | VN.. 1604.. | | |
| | PSC63-MVUNL22120-16 | 40.0 | 32 | 63 | 22.0 | 120.0 | 94.0 | -6° | -12° | VN.. 1604.. | | |
| | PSC63-MVUNR35175-16 | 63.0 | 50 | 63 | 35.0 | 175.0 | 152.0 | -6° | -10° | VN.. 1604.. | | |

1) γ = Rake angle (valid a smooth insert).
2) λs = Angle of inclination.

| | | | | | | | | | | |
|------|-----------------------|--|--|--|--|--|--|--|--|--|
| Ref. | PSC40-MVUNR/L27120-16 | | | | | | | | | |
| | PSC50-MVUNR/L27140-16 | | | | | | | | | |
| | PSC50-MVUNR/L35150-16 | | | | | | | | | |
| | PSC63-MVUNL22120-16 | | | | | | | | | |
| | PSC63-MVUNR35175-16 | | | | | | | | | |

|  | VN.. | | | | Negative 35° rhombic inserts. |
|---|---|---|---|---|-------------------------------|
| | Ref. | VN.. 1604.. | l | s | |
| | VNGP | VNMG | VNMG-CMC | | |
| |  |  |  | | |

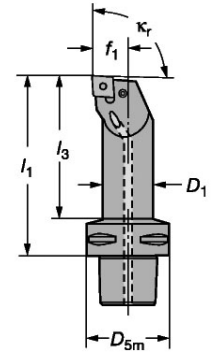


| MWLN | | Characteristics: | | | | | | | | | |
|----------------------|------------------------|----------------------------|----|-----|------|-------|-------|-----|------|-------------|----|
| | | PSC with internal coolant. | | | | | | | | | |
| Ref. | | Dm min. | D1 | D5m | f1 | l1 | l3 | y1) | λs2) | Insert | kg |
| PSC40-MWLN/L13075-06 | PSC40-MWLN/L13075-06 | 25.0 | 20 | 40 | 13.0 | 75.0 | 53.0 | -6° | -14° | WNMG 0604.. | |
| | PSC40-MWLN/L17090-06M1 | 32.0 | 25 | 40 | 17.0 | 90.0 | 69.0 | -6° | -12° | WNMG 0604.. | |
| PSC40-MWLN/L17090-08 | PSC40-MWLN/L17090-08 | 32.0 | 25 | 40 | 17.0 | 90.0 | 69.0 | -6° | -14° | WNMG 0804.. | |
| PSC40-MWLN/L22110-08 | PSC40-MWLN/L22110-08 | 40.0 | 32 | 40 | 22.0 | 110.0 | 89.0 | -6° | -14° | WNMG 0804.. | |
| PSC40-MWLN/L27120-08 | PSC40-MWLN/L27120-08 | 50.0 | 40 | 40 | 27.0 | 120.0 | 100.0 | -6° | -12° | WNMG 0804.. | |
| PSC50-MWLN/L17090-08 | PSC50-MWLN/L17090-08 | 32.0 | 25 | 50 | 17.0 | 90.0 | 67.0 | -6° | -14° | WNMG 0804.. | |
| PSC50-MWLN/L22110-08 | PSC50-MWLN/L22110-08 | 40.0 | 32 | 50 | 22.0 | 110.0 | 88.0 | -6° | -14° | WNMG 0804.. | |
| PSC50-MWLN/L27140-08 | PSC50-MWLN/L27140-08 | 50.0 | 40 | 50 | 27.0 | 140.0 | 119.0 | -6° | -12° | WNMG 0804.. | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.

| Ref. | | | | | | |
|----------------------|------------------------|------|------|----------|------|------|
| PSC40-MWLN/L13075-06 | PSC40-MWLN/L13075-06 | 2006 | 5025 | 3006 | 1644 | 1813 |
| | PSC40-MWLN/L17090-06M1 | 2006 | 5025 | 3006 | 1644 | 1813 |
| PSC40-MWLN/L17090-08 | PSC40-MWLN/L17090-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |
| PSC40-MWLN/L22110-08 | PSC40-MWLN/L22110-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |
| PSC40-MWLN/L27120-08 | PSC40-MWLN/L27120-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |
| PSC50-MWLN/L17090-08 | PSC50-MWLN/L17090-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |
| PSC50-MWLN/L22110-08 | PSC50-MWLN/L22110-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |
| PSC50-MWLN/L27140-08 | PSC50-MWLN/L27140-08 | 2011 | 5025 | IWSN-432 | 1661 | 1814 |

| Ref. | WNMG | | l | s | d | Negative 80° trigon inserts. | | | | | |
|------|-------------|-------------|---------|----------|----------|------------------------------|---------|--|--|--|--|
| | | WNMG 0604.. | | 6,45 | 4,76 | 9,52 | | | | | |
| | WNMG 0804.. | | 8,14 | 4,76 | 12,70 | | | | | | |
| | WNMG-CF | WNMG-CFM | WNMG-CM | WNMG-CMC | WNMG-CMF | WNMG-CMR | WNMG-CS | | | | |
| | | | | | | | | | | | |

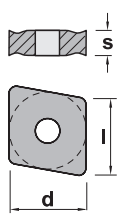


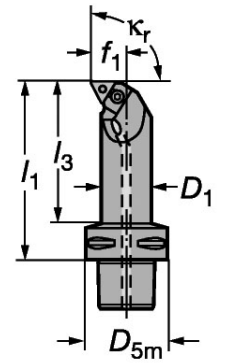
| PCLN | | Characteristics: | | PSC with internal coolant. | | | | | | | |
|-----------------------|-----------------------|------------------|----|----------------------------|-------|-------|-------|-----------------|------------------|-------------|--|
| | | Dm min. | D1 | D5m | f1 | l1 | l3 | y ¹⁾ | λs ²⁾ | Insert | |
| Ref. | PSC40-PCLNR/L17090-12 | 32.0 | 25 | 40 | 17.0 | 90.0 | 69.0 | -6° | -11° | CN.. 1204.. | |
| | PSC40-PCLNR/L22110-12 | 40.0 | 32 | 40 | 22.0 | 110.0 | 89.0 | -6° | -11° | CN.. 1204.. | |
| | PSC40-PCLNR/L27080-12 | 50.0 | 40 | 40 | 27.0 | 80.0 | 60.0 | -6° | -11° | CN.. 1204.. | |
| | PSC40-PCLNR/L27120-12 | 50.0 | 40 | 40 | 27.0 | 120.0 | 100.0 | -6° | -11° | CN.. 1204.. | |
| | PSC50-PCLNR/L17090-12 | 32.0 | 25 | 50 | 17.0 | 90.0 | 67.0 | -6° | -11° | CN.. 1204.. | |
| | PSC50-PCLNR/L22110-12 | 40.0 | 32 | 50 | 22.0 | 110.0 | 88.0 | -6° | -11° | CN.. 1204.. | |
| | PSC50-PCLNR/L27140-12 | 50.0 | 40 | 50 | 27.0 | 140.0 | 119.0 | -6° | -11° | CN.. 1204.. | |
| | PSC50-PCLNR/L35100-12 | 63.0 | 50 | 50 | 35.0 | 100.0 | 81.0 | -6° | -11° | CN.. 1204.. | |
| | PSC63-PCLNR/L17100-12 | 32.0 | 25 | 63 | 17.0 | 100.0 | 74.0 | -6° | -11° | CN.. 1204.. | |
| | PSC63-PCLNR/L22110-12 | 40.0 | 32 | 63 | 22.0 | 110.0 | 84.0 | -6° | -11° | CN.. 1204.. | |
| PSC63-PCLNR/L27140-16 | 50.0 | 40 | 63 | 27.0 | 140.0 | 115.0 | -6° | -11° | CN.. 1606.. | | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.

| Ref. | | | | | | |
|-----------------------|------|------|------|------|------|------|
| PSC40-PCLNR/L17090-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC40-PCLNR/L22110-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC40-PCLNR/L27080-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC40-PCLNR/L27120-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC50-PCLNR/L17090-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC50-PCLNR/L22110-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC50-PCLNR/L27140-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC50-PCLNR/L35100-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC63-PCLNR/L17100-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC63-PCLNR/L22110-12 | 8012 | 1608 | 5003 | 3612 | 4112 | 0012 |
| PSC63-PCLNR/L27140-16 | 8016 | 1618 | 5003 | 3616 | 4115 | 0015 |

| Ref. | CN.. | | | | Negative 80° rhombic inserts. | | | |
|------|-------------|-------|----------|----------|-------------------------------|----------|----------|---------|
| | CN.. 1204.. | l | s | d | CNMG-CF | CNMG-CM | CNMG-CR | CNMG-CS |
| | CN.. 1606.. | 12,90 | 4,76 | 12,70 | | | | |
| | | 16,10 | 6,35 | 15,88 | | | | |
| | CNGP | CNMA | CNMG-CFM | CNMG-CFC | CNMG-CMC | CNMG-CMF | CNMG-CMR | CNMM |
| | | | | | | | | |



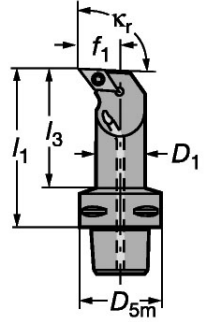


| PTFN | | Characteristics: | | | | | | | | | Insert | Kg |
|------------------------|------------------------|----------------------------|----|---------|-------|-------|-------|------|--------------|-----------------|--------|----|
| | | PSC with internal coolant. | | Dm min. | D1 | D5m | f1 | l1 | l3 | y ¹⁾ | | |
| Ref. | PSC40-PTFNR/L17090-16W | 32.0 | 25 | 40 | 17.0 | 90.0 | 69.0 | -6° | -13° | TNM.. 1604.. | | |
| | PSC40-PTFNR/L22110-16W | 40.0 | 32 | 40 | 22.0 | 110.0 | 89.0 | -6° | -12° | TNM.. 1604.. | | |
| | PSC40-PTFNR/L27120-16W | 50.0 | 40 | 40 | 27.0 | 120.0 | 100.0 | -6° | -11° | TNM.. 1604.. | | |
| | PSC50-PTFNR/L17090-16W | 32.0 | 25 | 50 | 17.0 | 90.0 | 67.0 | -6° | -13° | TNM.. 1604.. | | |
| | PSC50-PTFNR/L22110-16W | 40.0 | 32 | 50 | 22.0 | 110.0 | 88.0 | -6° | -12° | TNM.. 1604.. | | |
| | PSC50-PTFNR/L27140-16W | 50.0 | 40 | 50 | 27.0 | 140.0 | 119.0 | -6° | -11° | TNM.. 1604.. | | |
| | PSC63-PTFNR/L22110-16W | 40.0 | 32 | 63 | 22.0 | 110.0 | 84.0 | -6° | -12° | TNM.. 1604.. | | |
| PSC63-PTFNR/L27140-16W | 50.0 | 40 | 63 | 27.0 | 140.0 | 115.0 | -6° | -11° | TNM.. 1604.. | | | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.





| Ref. | PSC40-PTFNR/L17090-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
|------|------------------------|------|------|------|------|------|------|
| | PSC40-PTFNR/L22110-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC40-PTFNR/L27120-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC50-PTFNR/L17090-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC50-PTFNR/L22110-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC50-PTFNR/L27140-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC63-PTFNR/L22110-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |
| | PSC63-PTFNR/L27140-16W | 8009 | 1606 | 5025 | 3416 | 4109 | 0009 |

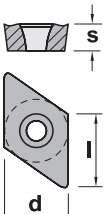
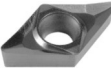

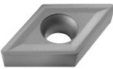
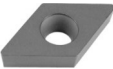
| | TNM.. | | | | Negative triangular inserts. | | |
|--|--------------|---------|----------|----------|------------------------------|---------|----------|
| | Ref. | l | s | d | TNMA | TNMG-CF | TNMG-CFC |
| | TNM.. 1604.. | 16,50 | 4,76 | 9,52 | | | |
| | TNMG-CFM | TNMG-CM | TNMG-CMC | TNMG-CMF | TNMG-CMR | TNMG-CS | TNMX R/L |
| | | | | | | | |

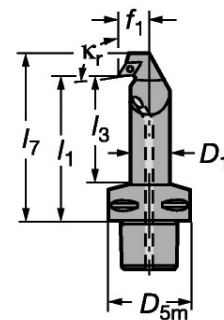
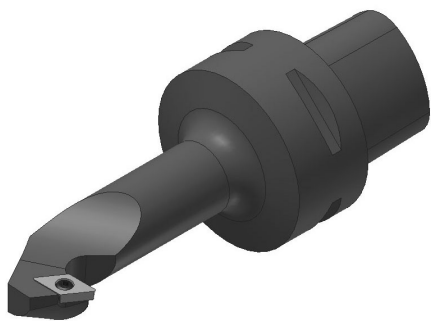


| SDUC | | Characteristics: PSC with internal coolant. | | | | | | | | | | | Insert | Kg |
|------|-----------------------|--|----|-----|------|-------|------|----|-----------------|------------------|------------------|-------------|--------|----|
| | | Dm min. | D1 | D5m | f1 | l1 | l3 | l7 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | | | |
| Ref. | PSC40-SDUCR/L13080-11 | 25.0 | 20 | 40 | 13.0 | 80.0 | 58.0 | - | 0° | -8° | 3.0 | DC.. 11T3.. | | |
| | PSC40-SDUCR/L17090-11 | 32.0 | 25 | 40 | 17.0 | 90.0 | 69.0 | - | 0° | -6° | 3.0 | DC.. 11T3.. | | |
| | PSC40-SDUCR/L22110-11 | 40.0 | 32 | 40 | 22.0 | 110.0 | 89.0 | - | 0° | -6° | 3.0 | DC.. 11T3.. | | |
| | PSC40-SDUCR/L27080-11 | 50.0 | 40 | 40 | 27.0 | 80.0 | 60.0 | - | 0° | -6° | 3.0 | DC.. 11T3.. | | |
| | PSC50-SDUCR/L13080-11 | 25.0 | 20 | 50 | 13.0 | 80.0 | 56.0 | - | 0° | -8° | 3.0 | DC.. 11T3.. | | |
| | PSC50-SDUCR/L17090-11 | 32.0 | 25 | 50 | 17.0 | 90.0 | 67.0 | - | 0° | -6° | 3.0 | DC.. 11T3.. | | |
| | PSC50-SDUCR/L22110-11 | 40.0 | 32 | 50 | 22.0 | 110.0 | 88.0 | - | 0° | -6° | 3.0 | DC.. 11T3.. | | |

1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.

| Ref. | |  |  |  |  |
|-----------------------|--|---|---|---|---|
| PSC40-SDUCR/L13080-11 | | 1335 | 5516 | 3714 | 1750 |
| PSC40-SDUCR/L17090-11 | | 1335 | 5516 | 3714 | 1750 |
| PSC40-SDUCR/L22110-11 | | 1335 | 5516 | 3714 | 1750 |
| PSC40-SDUCR/L27080-11 | | 1335 | 5516 | 3714 | 1750 |
| PSC50-SDUCR/L13080-11 | | 1335 | 5516 | 3714 | 1750 |
| PSC50-SDUCR/L17090-11 | | 1335 | 5516 | 3714 | 1750 |
| PSC50-SDUCR/L22110-11 | | 1335 | 5516 | 3714 | 1750 |

|  | DC.. | | | | Positive 7° clearance - 55° rhombic inserts. |
|---|---|---|---|---|--|
| | Ref. | l | s | d | |
| | DC.. 11T3.. | 11,60 | 3,97 | 9,52 | |
| | DCGT-AL | DCGT-AP | DCMT-03 | DCMW | |
| |  |  |  |  | |



SDUC-X



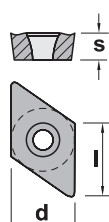
Characteristics:
PSC with internal coolant.

| Ref. | | Dm min. | D1 | D5m | f1 | l1 | l3 | l7 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
|------|------------------------|------------|----|-----|------|------|------|-------|-----------------|------------------|------------------|-------------|----|
| | PSC40-SDUCR/L13070-07X | 22.0 | 16 | 40 | 13.0 | 70.0 | 48.0 | 80.7 | 0° | -6° | 0.9 | DC.. 0702.. | |
| | PSC40-SDUCR/L15080-07X | 27.0 | 20 | 40 | 15.0 | 80.0 | 58.0 | 91.5 | 0° | -3° | 0.9 | DC.. 0702.. | |
| | PSC40-SDUCR/L18090-07X | 32.0 | 25 | 40 | 18.0 | 90.0 | 69.0 | 101.5 | 0° | -3° | 0.9 | DC.. 0702.. | |
| | PSC50-SDUCR/L15080-07X | 27.0 | 20 | 50 | 15.0 | 80.0 | 57.0 | 91.5 | 0° | -3° | 0.9 | DC.. 0702.. | |
| | PSC50-SDUCR/L18090-07X | 32.0 | 25 | 50 | 18.0 | 90.0 | 67.0 | 101.5 | 0° | -3° | 0.9 | DC.. 0702.. | |

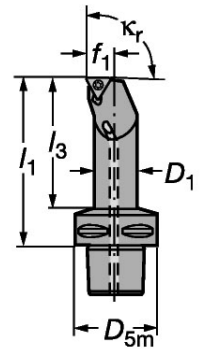
1) y= Rake angle (valid a smooth insert).
2) λs= Angle of inclination.
3) Nm= Insert moment of force.



| | | | |
|------|------------------------|------|------|
| Ref. | PSC40-SDUCR/L13070-07X | 1225 | 5507 |
| | PSC40-SDUCR/L15080-07X | 1225 | 5507 |
| | PSC40-SDUCR/L18090-07X | 1225 | 5507 |
| | PSC50-SDUCR/L15080-07X | 1225 | 5507 |
| | PSC50-SDUCR/L18090-07X | 1225 | 5507 |







| Ref. | DC.. | l | s | d | Positive 7° clearance - 55° rhombic inserts. | | |
|------|-------------|---------|---------|------|--|--|--|
| | DC.. 0702.. | 7,75 | 2,38 | 6,35 | | | |
| | DCGT-AL | DCGT-AP | DCMT-03 | DCMW | | | |
| | | | | | | | |

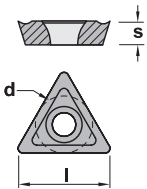





| STFC | | Characteristics: | | PSC with internal coolant. | | | | | | | | | |
|------|--|------------------|----|----------------------------|------|-------|------|-----------------|------------------|------------------|-------------|----|--|
| | | Dm min. | D1 | D5m | f1 | l1 | l3 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | Kg | |
| Ref. | PSC40-STFCR/L11070-11-B1 ⁴⁾ | 20.0 | 16 | 40 | 11.0 | 70.0 | 47.0 | 0° | -4° | 0.9 | TC.. 1102.. | | |
| | PSC40-STFCR/L13080-11-B1 ⁴⁾ | 25.0 | 20 | 40 | 13.0 | 80.0 | 57.0 | 0° | -3° | 0.9 | TC.. 1102.. | | |
| | PSC50-STFCR/L11070-11-B1 ⁴⁾ | 20.0 | 16 | 50 | 11.0 | 70.0 | 46.0 | 0° | -4° | 0.9 | TC.. 1102.. | | |
| | PSC50-STFCR/L13080-11-B1 ⁴⁾ | 25.0 | 20 | 50 | 13.0 | 80.0 | 56.0 | 0° | -3° | 0.9 | TC.. 1102.. | | |
| | PSC40-STFCR/L17090-16 | 32.0 | 25 | 40 | 17.0 | 90.0 | 69.0 | 0° | -6° | 3.0 | TC.. 16T3.. | | |
| | PSC40-STFCR/L22110-16 | 40.0 | 32 | 40 | 22.0 | 110.0 | 89.0 | 0° | -10° | 3.0 | TC.. 16T3.. | | |
| | PSC50-STFCR/L17090-16 | 32.0 | 25 | 50 | 17.0 | 90.0 | 67.0 | 0° | -6° | 3.0 | TC.. 16T3.. | | |
| | PSC50-STFCR/L22110-16 | 40.0 | 32 | 50 | 22.0 | 110.0 | 88.0 | 0° | -10° | 3.0 | TC.. 16T3.. | | |

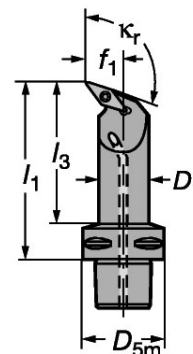
1) y= Rake angle (valid a smooth insert).
 2) λs= Angle of inclination.
 3) Nm= Insert moment of force.
 4) B1= To insert thickness 03=3,18 mm.

| Ref. | |  |  |  |  |
|------|--|---|---|---|---|
| Ref. | PSC40-STFCR/L11070-11-B1 ⁴⁾ | 1225 | 5507 | - | - |
| | PSC40-STFCR/L13080-11-B1 ⁴⁾ | 1225 | 5507 | - | - |
| | PSC50-STFCR/L11070-11-B1 ⁴⁾ | 1225 | 5507 | - | - |
| | PSC50-STFCR/L13080-11-B1 ⁴⁾ | 1225 | 5507 | - | - |
| | PSC40-STFCR/L17090-16 | 1240 | 5515 | 3414 | 1750 |
| | PSC40-STFCR/L22110-16 | 1240 | 5515 | 3414 | 1750 |
| | PSC50-STFCR/L17090-16 | 1240 | 5515 | 3414 | 1750 |
| | PSC50-STFCR/L22110-16 | 1240 | 5515 | 3414 | 1750 |

| Ref. | TC.. | l | s | d | Positive 7° clearance - Triangular inserts. |
|-------------|-------------|-------|------|------|---|
| | TC.. 1102.. | 11,00 | 2,38 | 6,35 | |
| TC.. 16T3.. | 16,50 | 3,97 | 9,52 | | |







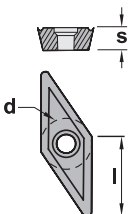



| TCGT-AL | TCMT-03 | TCMW | | | |
|---|---|---|--|--|--|
|  |  |  | | | |

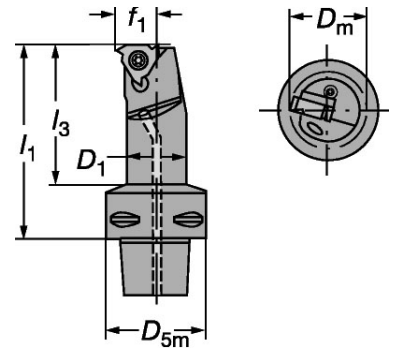


| SVQC | | Characteristics: | | | | | | | | | | |
|------|--|----------------------------|----|-----|------|-------|-------|-----------------|------------------|------------------|-------------|----|
| | | PSC with internal coolant. | | | | | | | | | | |
| | | Dm min. | D1 | D5m | f1 | l1 | l3 | y ¹⁾ | λs ²⁾ | Nm ³⁾ | Insert | kg |
| Ref. | PSC40-SVQCR/L15080-11-B1 ⁴⁾ | 27.0 | 20 | 40 | 15.0 | 80.0 | 57.9 | 0° | -5° | 0.9 | VCMT 1103.. | |
| | PSC50-SVQCR/L15080-11-B1 ⁴⁾ | 27.0 | 20 | 50 | 15.0 | 80.0 | 56.5 | 0° | -5° | 0.9 | VCMT 1103.. | |
| | PSC40-SVQCR/L18090-16 | 33.0 | 25 | 40 | 18.0 | 90.0 | 69.0 | 0° | -6° | 3.0 | VCMT 1604.. | |
| | PSC40-SVQCR/L22110-16 | 40.0 | 32 | 40 | 22.0 | 110.0 | 89.0 | 0° | -8° | 3.0 | VCMT 1604.. | |
| | PSC40-SVQCR/L27120-16 | 50.0 | 40 | 40 | 27.0 | 120.0 | 100.0 | 0° | -8° | 3.0 | VCMT 1604.. | |
| | PSC50-SVQCR/L18090-16 | 33.0 | 25 | 50 | 18.0 | 90.0 | 67.0 | 0° | -6° | 3.0 | VCMT 1604.. | |
| | PSC50-SVQCR/L22110-16 | 40.0 | 32 | 50 | 22.0 | 110.0 | 88.0 | 0° | -8° | 3.0 | VCMT 1604.. | |
| | PSC50-SVQCR/L27140-16 | 50.0 | 40 | 50 | 27.0 | 140.0 | 119.0 | 0° | -8° | 3.0 | VCMT 1604.. | |
| | PSC50-SVQCR/L35150-16 | 63.0 | 50 | 50 | 35.0 | 150.0 | 131.0 | 0° | -7° | 3.0 | VCMT 1604.. | |
| | PSC63-SVQCR/L22120-16 | 40.0 | 32 | 63 | 22.0 | 120.0 | 94.0 | 0° | -8° | 3.0 | VCMT 1604.. | |
| | PSC63-SVQCR/L27145-16 | 50.0 | 40 | 63 | 27.0 | 145.0 | 120.0 | 0° | -8° | 3.0 | VCMT 1604.. | |
| | PSC63-SVQCR/L35175-16 | 63.0 | 50 | 63 | 35.0 | 175.0 | 152.0 | 0° | -8° | 3.0 | VCMT 1604.. | |

1) y = Rake angle (valid a smooth insert).
 2) λs = Angle of inclination.
 3) Nm = Insert moment of force.
 4) B1 = To insert thickness 03=3,18 mm.

| Ref. | |  |  |  |  |
|------|--|---|---|---|---|
| Ref. | PSC40-SVQCR/L15080-11-B1 ⁴⁾ | 1225 | 5507 | - | - |
| | PSC50-SVQCR/L15080-11-B1 ⁴⁾ | 1225 | 5507 | - | - |
| | PSC40-SVQCR/L18090-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC40-SVQCR/L22110-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC40-SVQCR/L27120-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC50-SVQCR/L18090-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC50-SVQCR/L22110-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC50-SVQCR/L27140-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC50-SVQCR/L35150-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC63-SVQCR/L22120-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC63-SVQCR/L27145-16 | 1335 | 5516 | 3718 | 1750 |
| | PSC63-SVQCR/L35175-16 | 1335 | 5516 | 3718 | 1750 |

|  | VC.. | | | | Positive 7° clearance - 35° rhombic inserts. |
|---|---|---|---|------|--|
| | Ref. | VC.. 1103.. | VC.. 1604.. | | |
| | | l | s | d | |
| | | 11,00 | 3,18 | 6,35 | |
| | | 16,50 | 4,76 | 9,52 | |
| | VCGT-AL | VCGT-AP | VCMT-03 | | |
| |  |  |  | | |



| SXFN | | Characteristics: PSC with internal coolant. | | | | | | | 2) Nm= Insert moment of force. | |
|-----------------------|-----------------------|---|---------|----------------------|-----|-----|-----|-----|--------------------------------|--|
| | | D1 | Dm min. | Dm mod ³⁾ | D5m | f1 | l1 | l3 | Nm ²⁾ | |
| Ref. | PSC40-SXFNR/L12060-16 | 15.5 | 20 | 15.5 | 40 | 12 | 60 | 37 | 1.7 | |
| | PSC40-SXFNR/L14060-16 | 18.5 | 25 | - | 40 | 14 | 60 | 38 | 1.7 | |
| | PSC40-SXFNR/L17070-16 | 24.5 | 32 | - | 40 | 17 | 70 | 48 | 1.7 | |
| | PSC40-SXFNR/L22090-16 | 32.0 | 40 | - | 40 | 22 | 90 | 69 | 1.7 | |
| | PSC40-SXFNR/L27080-16 | 39.5 | 50 | - | 40 | 27 | 80 | 60 | 1.7 | |
| | PSC50-SXFNR/L12060-16 | 15.5 | 20 | 15.5 | 50 | 12 | 60 | 35 | 1.7 | |
| | PSC50-SXFNR/L14060-16 | 18.5 | 25 | - | 50 | 14 | 60 | 36 | 1.7 | |
| | PSC50-SXFNR/L17070-16 | 24.5 | 32 | - | 50 | 17 | 70 | 47 | 1.7 | |
| | PSC50-SXFNR/L22090-16 | 24.5 | 40 | - | 50 | 22 | 90 | 68 | 1.7 | |
| | PSC50-SXFNR/L27105-16 | 40.0 | 50 | - | 50 | 27 | 105 | 84 | 1.7 | |
| | PSC63-SXFNR/L14070-16 | 18.5 | 25 | - | 63 | 14 | 70 | 42 | 1.7 | |
| | PSC63-SXFNR/L17075-16 | 24.5 | 32 | - | 63 | 17 | 75 | 48 | 1.7 | |
| | PSC63-SXFNR/L22090-16 | 32.0 | 40 | - | 63 | 22 | 90 | 64 | 1.7 | |
| | PSC63-SXFNR/L27105-16 | 40.0 | 50 | - | 63 | 27 | 105 | 80 | 1.7 | |
| | PSC40-SXFNR/L15065-22 | 18.5 | 25 | 21.5 | 40 | 15 | 65 | 42 | 3.9 | |
| | PSC40-SXFNR/L19070-22 | 25.0 | 32 | - | 40 | 19 | 70 | 48 | 3.9 | |
| | PSC40-SXFNR/L22090-22 | 31.5 | 40 | - | 40 | 22 | 90 | 69 | 3.9 | |
| | PSC40-SXFNR/L27080-22 | 39.5 | 50 | - | 40 | 27 | 80 | 60 | 3.9 | |
| | PSC50-SXFNR/L15065-22 | 18.5 | 25 | 21.5 | 50 | 15 | 65 | 41 | 3.9 | |
| | PSC50-SXFNR/L19070-22 | 25.0 | 32 | - | 50 | 19 | 70 | 47 | 3.9 | |
| | PSC50-SXFNR/L22090-22 | 31.5 | 40 | - | 50 | 22 | 90 | 68 | 3.9 | |
| | PSC50-SXFNR/L27105-22 | 40.0 | 50 | - | 50 | 27 | 105 | 84 | 3.9 | |
| | PSC63-SXFNR/L19075-22 | 25.0 | 32 | - | 63 | 19 | 75 | 48 | 3.9 | |
| | PSC63-SXFNR/L22090-22 | 31.5 | 40 | - | 63 | 22 | 90 | 64 | 3.9 | |
| PSC63-SXFNR/L27105-22 | 40.0 | 50 | - | 63 | 27 | 105 | 80 | 3.9 | | |

| Ref. | | | | | |
|-------------|------|------|------|------|-----|
| PSC40...-16 | 1335 | 5515 | 3424 | 3425 | SY3 |
| PSC50...-16 | 1335 | 5515 | 3424 | 3425 | SY3 |
| PSC63...-16 | 1335 | 5515 | 3424 | 3425 | SY3 |
| PSC40...-22 | 1340 | 5515 | 3430 | 3431 | SY4 |
| PSC50...-22 | 1340 | 5515 | 3430 | 3431 | SY4 |
| PSC63...-22 | 1340 | 5515 | 3430 | 3431 | SY4 |