

Threading

Inserts

General turning

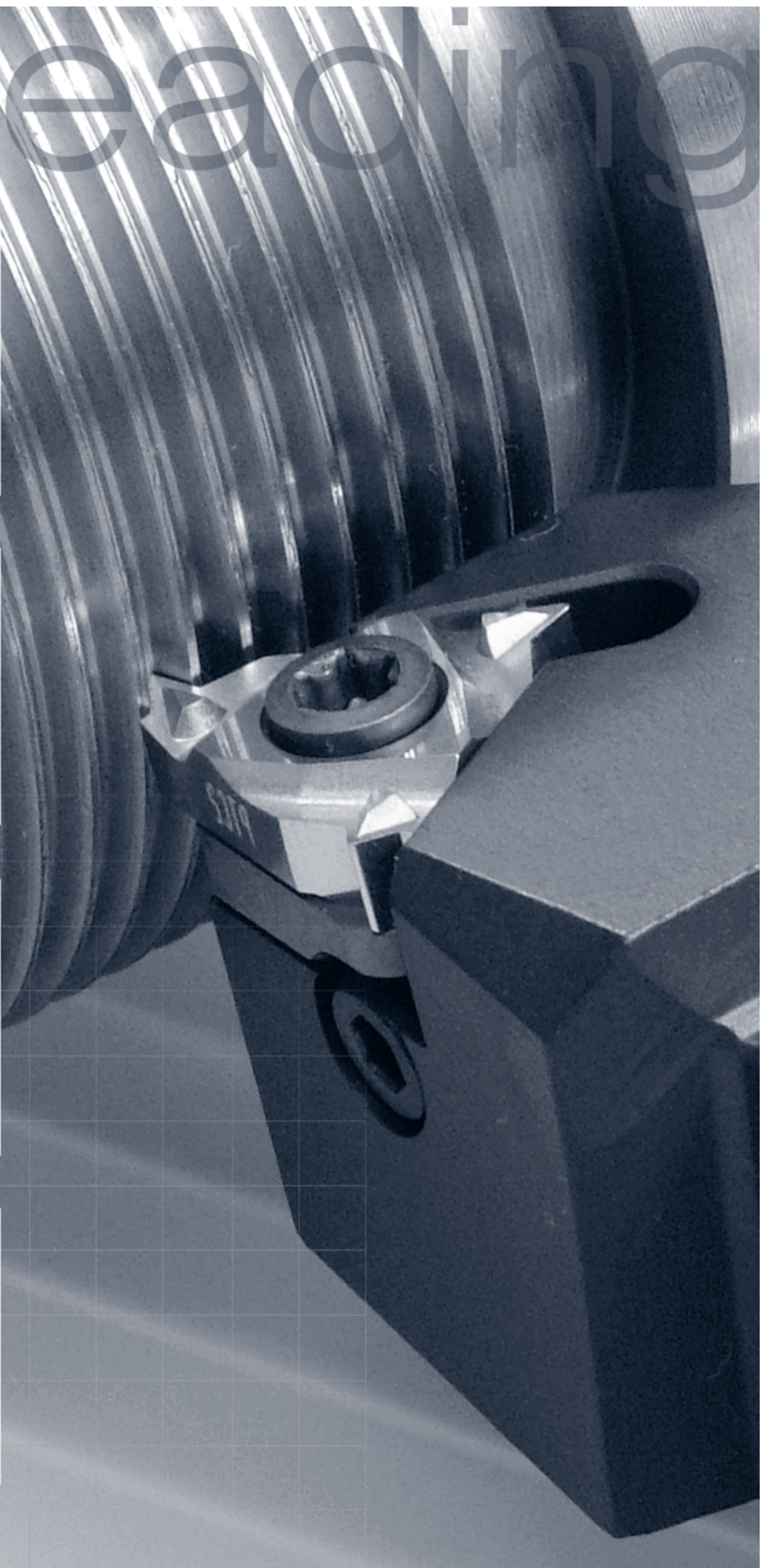
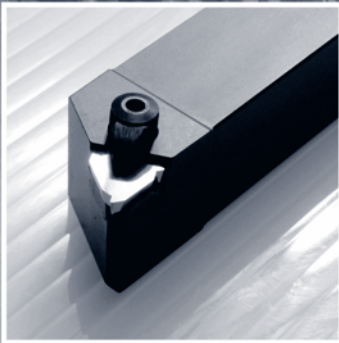
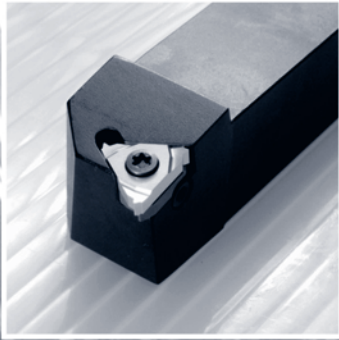
Aluminium
wheel turning

Automatic lathes

Ceramic tools

Parting and
grooving

Threading

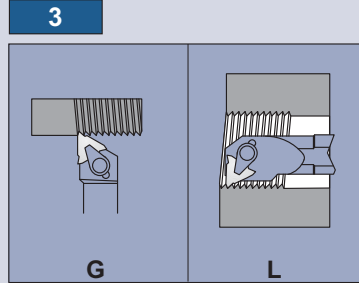
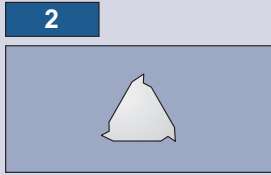
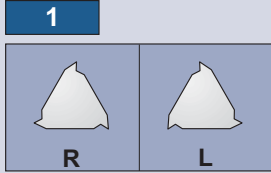


Threading

| | |
|---------------------------------------|------|
| Code key | H.02 |
| Inserts | H.03 |
| Contents | H.12 |
| External threading | H.13 |
| Internal threading | H.21 |
| Technical information | H.28 |
| Tooling for the petroleum industry | H.31 |

L 166 G - 3 B A 075

1 2 3 4 5 6 7

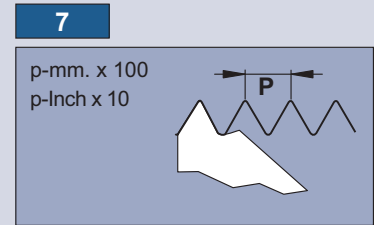
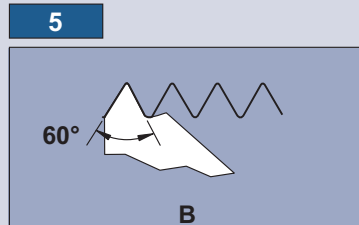


6

| | |
|----------|-----------|
| A | ISO mm. |
| C | SI |
| L | ISO Inch |
| K | Whitworth |

4

| | IC=Inch | D=mm. | |
|--|--------------|-------|----|
| | 2 1/4 | 6,35 | 11 |
| | 3 3/8 | 9,52 | 16 |
| | 4 1/2 | 12,70 | 22 |

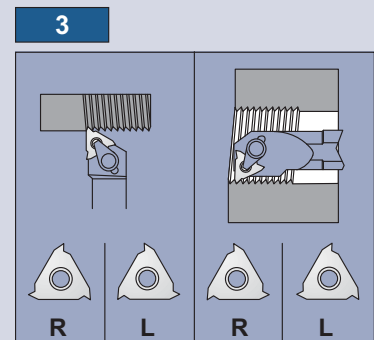
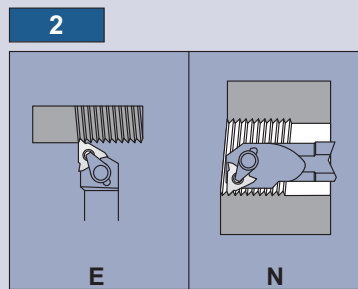


16 E L - AG 55

1 2 3 4 5

1

| | IC=Inch | d=mm. |
|--|----------------|-------|
| | 06 5/32 | 3,96 |
| | 08 3/16 | 4,76 |
| | 11 1/4 | 6,35 |
| | 16 3/8 | 9,52 |
| | 22 1/2 | 12,70 |
| | 27 5/8 | 15,87 |



4







| | mm. | TPI |
|--|-------------------|-------|
| | A 0,5-1,5 | 48-16 |
| | AG 0,5-3,0 | 48-8 |
| | G 1,75-3,0 | 14-8 |
| | N 3,5-5,0 | 7-5 |

p=mm. x 100
p=Inch x 10




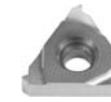
5

| | |
|------------|---------------------|
| 55 | Partial profile 55° |
| 60 | Partial profile 60° |
| ISO | ISO metric |
| UN | American, UN |
| W | Whitworth, BSW |
| LG | Groove type LG |



60° - 55° (non topping)

| | | | | | | |
|---|---|--|---|--|--|--|
| <p>ER-60°/55°</p>  <p>Triangular Negative Page H.04 <input type="checkbox"/> 0°</p> | <p>EL-60°/55°</p>  <p>Triangular Negative Page H.04 <input type="checkbox"/> 0°</p> | <p>ER-60°/55° TD</p>  <p>Triangular Negative Page H.04 <input type="checkbox"/> 0°</p> | <p>NR-60°/55°</p>  <p>Triangular Negative Page H.05 <input type="checkbox"/> 0°</p> | <p>NL-60°/55°</p>  <p>Triangular Negative Page H.05 <input type="checkbox"/> 0°</p> | <p>NR-60°/55° TD</p>  <p>Triangular Negative Page H.05 <input type="checkbox"/> 0°</p> | |
|---|---|--|---|--|--|--|

ISO (full form) BS36

| | | | | | | |
|---|---|--|--|--|---|--|
| <p>ER-ISO</p>  <p>Triangular Negative Page H.06 <input type="checkbox"/> 0°</p> | <p>EL-ISO</p>  <p>Triangular Negative Page H.06 <input type="checkbox"/> 0°</p> | <p>ER-ISO TD</p>  <p>Triangular Negative Page H.06 <input type="checkbox"/> 0°</p> | <p>EL-ISO TD</p>  <p>Triangular Negative Page H.06 <input type="checkbox"/> 0°</p> | <p>NR-ISO</p>  <p>Triangular Negative Page H.07 <input type="checkbox"/> 0°</p> | <p>NL-ISO</p>  <p>Triangular Negative Page H.07 <input type="checkbox"/> 0°</p> | <p>NR-ISO TD</p>  <p>Triangular Negative Page H.07 <input type="checkbox"/> 0°</p> |
|---|---|--|--|--|---|--|

UNIFIED (full form) ASME / ANSI B1.1

| | | | | | | |
|---|---|--|--|--|--|--|
| <p>ER-UN</p>  <p>Triangular Negative Page H.08 <input type="checkbox"/> 0°</p> | <p>NR-UN</p>  <p>Triangular Negative Page H.08 <input type="checkbox"/> 0°</p> | | | | | |
|---|---|--|--|--|--|--|


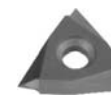
WHITWORTH (full form) BS84

| | | | | | | |
|---|---|--|---|--|--|--|
| <p>ER-W</p>  <p>Triangular Negative Page H.08 <input type="checkbox"/> 0°</p> | <p>EL-W</p>  <p>Triangular Negative Page H.08 <input type="checkbox"/> 0°</p> | <p>ER-W TD</p>  <p>Triangular Negative Page H.08 <input type="checkbox"/> 0°</p> | <p>NR-W</p>  <p>Triangular Negative Page H.09 <input type="checkbox"/> 0°</p> | <p>NL-W</p>  <p>Triangular Negative Page H.09 <input type="checkbox"/> 0°</p> | <p>NR-W TD</p>  <p>Triangular Negative Page H.09 <input type="checkbox"/> 0°</p> | |
|---|---|--|---|--|--|--|

Lock ring groove inserts type LG

| | | |
|--|--|--|
| <p>ER-LG</p>  <p>Triangular Negative Page H.10 <input type="checkbox"/> 0°</p> | <p>EL-LG</p>  <p>Triangular Negative Page H.10 <input type="checkbox"/> 0°</p> | |
|--|--|--|

Others

| | | |
|--|---|--|
| <p>TNMC</p>  <p>Triangular Negative Page H.10 <input type="checkbox"/> 0°</p> | <p>TPMC</p>  <p>Triangular Negative Page H.10 <input type="checkbox"/> 0°</p> | |
|--|---|--|

ISO

| | | | | | | |
|--|--|--|--|---|--|--|
| <p>L166G-ISO</p>  <p>Triangular Positive Page H.11 <input type="checkbox"/> 7°</p> | <p>R166G-ISO</p>  <p>Triangular Positive Page H.11 <input type="checkbox"/> 7°</p> | <p>R166G-B</p>  <p>Triangular Positive Page H.11 <input type="checkbox"/> 7°</p> | <p>L166L-ISO</p>  <p>Triangular Positive Page H.11 <input type="checkbox"/> 7°</p> | <p>R166L-ISO</p>  <p>Triangular Positive Page H.11 <input type="checkbox"/> 7°</p> | | |
|--|--|--|--|---|--|--|

Partial profile thread forms - External inserts
60° - 55° (non topping)

Normally available for immediate delivery ●

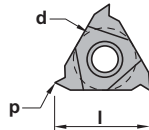
Only available in a limited quantity ○



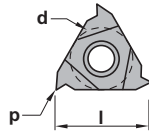
ER



ER TD



ER



EL

ER-60°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 11ER-A60 | 11,00 | 6,35 | 60° | | | ○ | |
| 16ER-A60 | 16,00 | 9,52 | 60° | | | ○ | |
| 16ER-AG60 | 16,00 | 9,52 | 60° | | ● | ● | ○ |
| 16ER-G60 | 16,00 | 9,52 | 60° | | | ● | ○ |
| 22ER-N60 | 22,00 | 12,70 | 60° | | | ● | ○ |
| 27ER-S60 | 27,00 | 15,87 | 60° | | | ○ | |

EL-60°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 11EL-A60 | 11,00 | 6,35 | 60° | | | ○ | |
| 16EL-A60 | 16,00 | 9,52 | 60° | | | ○ | |
| 16EL-AG60 | 16,00 | 9,52 | 60° | | | ○ | |
| 16EL-G60 | 16,00 | 9,52 | 60° | | | ○ | |
| 22EL-N60 | 22,00 | 12,70 | 60° | | | ○ | |
| 27EL-S60 | 27,00 | 15,87 | 60° | | | ○ | |

ER-55°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 11ER-A55 | 11,00 | 6,35 | 55° | | | ○ | |
| 16ER-A55 | 16,00 | 9,52 | 55° | | | ○ | |
| 16ER-AG55 | 16,00 | 9,52 | 55° | | ● | ● | ○ |
| 16ER-G55 | 16,00 | 9,52 | 55° | | | ○ | |
| 22ER-N55 | 22,00 | 12,70 | 55° | | | ○ | |
| 27ER-S55 | 27,00 | 15,87 | 55° | | | ○ | |

EL-55°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 11EL-A55 | 11,00 | 6,35 | 55° | | | ○ | |
| 16EL-A55 | 16,00 | 9,52 | 55° | | | ○ | |
| 16EL-AG55 | 16,00 | 9,52 | 55° | | | ○ | |
| 16EL-G55 | 16,00 | 9,52 | 55° | | | ○ | |
| 22EL-N55 | 22,00 | 12,70 | 55° | | | ○ | |
| 27EL-S55 | 27,00 | 15,87 | 55° | | | ○ | |

ER-60° TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|--------------|-------|------|-----|------|------|-------|------|
| 16ER-A60 TD | 16,00 | 9,52 | 60° | | | ○ | |
| 16ER-AG60 TD | 16,00 | 9,52 | 60° | | | ● | ○ |
| 16ER-G60 TD | 16,00 | 9,52 | 60° | | | ○ | |

ER-55° TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|--------------|-------|------|-----|------|------|-------|------|
| 16ER-A55TD | 16,00 | 9,52 | 55° | | | ○ | |
| 16ER-AG55 TD | 16,00 | 9,52 | 55° | | | ● | ○ |
| 16ER-G55 TD | 16,00 | 9,52 | 55° | | | ○ | |

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading

Partial profile thread forms - Internal inserts
60° - 55° (non topping)

Normally available for immediate delivery ●

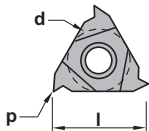
Only available in a limited quantity ○



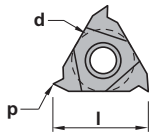
NR



NR TD



NR



NL

NR-60°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 06NR-A60 | 6,00 | 3,96 | 60° | | | ○ | |
| 08NR-A60 | 8,00 | 4,76 | 60° | | | ○ | |
| 11NR-A60 | 11,00 | 6,35 | 60° | | | ● | ○ |
| 16NR-A60 | 16,00 | 9,52 | 60° | | | ○ | |
| 16NR-AG60 | 16,00 | 9,52 | 60° | | ● | ● | ○ |
| 16NR-G60 | 16,00 | 9,52 | 60° | | | ○ | |
| 22NR-N60 | 22,00 | 12,70 | 60° | | | ● | ○ |
| 27NR-S60 | 27,00 | 15,87 | 60° | | | ○ | |

NL-60°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 06NL-A60 | 6,00 | 3,96 | 60° | | | ○ | |
| 08NL-A60 | 8,00 | 4,76 | 60° | | | ○ | |
| 11NL-A60 | 11,00 | 6,35 | 60° | | | ○ | |
| 16NL-A60 | 16,00 | 9,52 | 60° | | | ○ | |
| 16NL-AG60 | 16,00 | 9,52 | 60° | | | ○ | |
| 16NL-G60 | 16,00 | 9,52 | 60° | | | ○ | |
| 22NL-N60 | 22,00 | 12,70 | 60° | | | ○ | |
| 27NL-S60 | 27,00 | 15,87 | 60° | | | ○ | |

NR-55°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 06NR-A55 | 6,00 | 3,96 | 55° | | | ○ | |
| 08NR-A55 | 8,00 | 4,76 | 55° | | | ○ | |
| 11NR-A55 | 11,00 | 6,35 | 55° | | | ○ | |
| 16NR-A55 | 16,00 | 9,52 | 55° | | | ○ | |
| 16NR-AG55 | 16,00 | 9,52 | 55° | | | ● | ○ |
| 16NR-G55 | 16,00 | 9,52 | 55° | | | ● | |
| 22NR-N55 | 22,00 | 12,70 | 55° | | | ○ | |
| 27NR-S55 | 27,00 | 15,87 | 55° | | | ○ | |

NL-55°

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|-----|------|------|-------|------|
| 06NL-A55 | 6,00 | 3,96 | 55° | | | | |
| 08NL-A55 | 8,00 | 4,76 | 55° | | | | |
| 11NL-A55 | 11,00 | 6,35 | 55° | | | ○ | |
| 16NL-A55 | 16,00 | 9,52 | 55° | | | ○ | |
| 16NL-AG55 | 16,00 | 9,52 | 55° | | | ○ | |
| 16NL-G55 | 16,00 | 9,52 | 55° | | | ○ | |
| 22NL-N55 | 22,00 | 12,70 | 55° | | | ○ | |
| 27NL-S55 | 27,00 | 15,87 | 55° | | | | |

NR-60° TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|--------------|-------|------|-----|------|------|-------|------|
| 16NR-A60 TD | 16,00 | 9,52 | 60° | | | ○ | |
| 16NR-AG60 TD | 16,00 | 9,52 | 60° | | | ● | ○ |
| 16NR-G60 TD | 16,00 | 9,52 | 60° | | | ○ | |

NR-55° TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|--------------|-------|------|-----|------|------|-------|------|
| 16NR-A55TD | 16,00 | 9,52 | 55° | | | ○ | |
| 16NR-AG55 TD | 16,00 | 9,52 | 55° | | | ● | ○ |
| 16NR-G55 TD | 16,00 | 9,52 | 55° | | | ○ | |

Mechanical thread forms - External inserts
ISO (full form) BS36

Normally available for immediate delivery ●

Only available in a limited quantity ○

Inserts

General turning

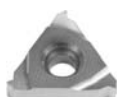
Aluminium
 wheel turning

Automatic lathes

Ceramic tools

Parting and
 grooving

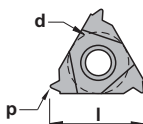
Threading



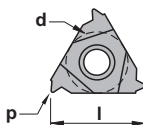
ER ISO



ER ISO TD



ER



EL

ER-ISO

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-------------|-------|-------|------|------|------|-------|------|
| 11ER-030ISO | 11,00 | 6,35 | 0,30 | | | ○ | |
| 11ER-040ISO | 11,00 | 6,35 | 0,40 | | | ○ | |
| 11ER-045ISO | 11,00 | 6,35 | 0,45 | | | ○ | |
| 11ER-050ISO | 11,00 | 6,35 | 0,50 | | | ○ | |
| 11ER-060ISO | 11,00 | 6,35 | 0,60 | | | ○ | |
| 11ER-070ISO | 11,00 | 6,35 | 0,70 | | | ○ | |
| 11ER-075ISO | 11,00 | 6,35 | 0,75 | | | ○ | |
| 11ER-080ISO | 11,00 | 6,35 | 0,80 | | | ○ | |
| 11ER-100ISO | 11,00 | 6,35 | 1,00 | | | ○ | |
| 11ER-125ISO | 11,00 | 6,35 | 1,25 | | | ○ | |
| 11ER-150ISO | 11,00 | 6,35 | 1,50 | | | ○ | |
| 11ER-175ISO | 11,00 | 6,35 | 1,75 | | | ○ | |
| 16ER-075ISO | 16,00 | 9,52 | 0,75 | | | ○ | |
| 16ER-100ISO | 16,00 | 9,52 | 1,00 | | | ○ | |
| 16ER-125ISO | 16,00 | 9,52 | 1,25 | | | ○ | |
| 16ER-150ISO | 16,00 | 9,52 | 1,50 | | | ○ | |
| 16ER-175ISO | 16,00 | 9,52 | 1,75 | | | ○ | |
| 16ER-200ISO | 16,00 | 9,52 | 2,00 | | | ○ | |
| 16ER-250ISO | 16,00 | 9,52 | 2,50 | | | ○ | |
| 16ER-300ISO | 16,00 | 9,52 | 3,00 | | | ○ | |
| 22ER-350ISO | 22,00 | 12,70 | 3,50 | | | ○ | |
| 22ER-400ISO | 22,00 | 12,70 | 4,00 | | | ○ | |
| 22ER-450ISO | 22,00 | 12,70 | 4,50 | | | ○ | |
| 22ER-500ISO | 22,00 | 12,70 | 5,00 | | | ○ | |
| 27ER-500ISO | 27,00 | 15,87 | 5,00 | | | ○ | |
| 27ER-550ISO | 27,00 | 15,87 | 5,50 | | | ○ | |
| 27ER-600ISO | 27,00 | 15,87 | 6,00 | | | ○ | |
| 27ER-800ISO | 27,00 | 15,87 | 8,00 | | | ○ | |

EL-ISO

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-------------|-------|-------|------|------|------|-------|------|
| 16EL-100ISO | 16,00 | 9,52 | 1,00 | | | ○ | |
| 16EL-125ISO | 16,00 | 9,52 | 1,25 | | | ○ | |
| 16EL-150ISO | 16,00 | 9,52 | 1,50 | | | ○ | |
| 16EL-175ISO | 16,00 | 9,52 | 1,75 | | | ○ | |
| 16EL-200ISO | 16,00 | 9,52 | 2,00 | | | ○ | |
| 16EL-250ISO | 16,00 | 9,52 | 2,50 | | | ○ | |
| 16EL-300ISO | 16,00 | 9,52 | 3,00 | | | ○ | |
| 22EL-400ISO | 22,00 | 12,70 | 4,00 | | | ○ | |

ER-ISO TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|----------------|-------|------|------|------|------|-------|------|
| 16ER-100ISO TD | 16,50 | 9,52 | 1,00 | | | ○ | |
| 16ER-125ISO TD | 16,50 | 9,52 | 1,25 | | | ○ | |
| 16ER-150ISO TD | 16,50 | 9,52 | 1,50 | | | ○ | |
| 16ER-175ISO TD | 16,50 | 9,52 | 1,75 | | | ○ | |
| 16ER-200ISO TD | 16,50 | 9,52 | 2,00 | | | ○ | |
| 16ER-250ISO TD | 16,50 | 9,52 | 2,50 | | | ○ | |
| 16ER-300ISO TD | 16,50 | 9,52 | 3,00 | | | ○ | |

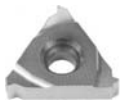
EL-ISO TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|----------------|-------|------|------|------|------|-------|------|
| 16EL-100ISO TD | 16,50 | 9,52 | 1,00 | | | ○ | |
| 16EL-125ISO TD | 16,50 | 9,52 | 1,25 | | | ○ | |
| 16EL-150ISO TD | 16,50 | 9,52 | 1,50 | | | ○ | |
| 16EL-175ISO TD | 16,50 | 9,52 | 1,75 | | | ○ | |
| 16EL-200ISO TD | 16,50 | 9,52 | 2,00 | | | ○ | |
| 16EL-250ISO TD | 16,50 | 9,52 | 2,50 | | | ○ | |
| 16EL-300ISO TD | 16,50 | 9,52 | 3,00 | | | ○ | |

Mechanical thread forms - Internal inserts
ISO (full form) BS36

Normally available for immediate delivery ●

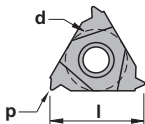
Only available in a limited quantity ○



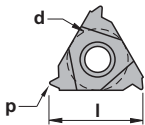
NR ISO



NR ISO TD



NR



NL

NR-ISO

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-------------|----------|----------|----------|-------------|-------------|--------------|-------------|
| 06NR-050ISO | 6,00 | 3,96 | 0,50 | | | ○ | |
| 06NR-075ISO | 6,00 | 3,96 | 0,75 | | | ○ | |
| 06NR-100ISO | 6,00 | 3,96 | 1,00 | | | ○ | |
| 06NR-125ISO | 6,00 | 3,96 | 1,25 | | | ○ | |
| 08NR-050ISO | 8,00 | 4,76 | 0,50 | | | ○ | |
| 08NR-075ISO | 8,00 | 4,76 | 0,75 | | | ○ | |
| 08NR-100ISO | 8,00 | 4,76 | 1,00 | | | ○ | |
| 08NR-125ISO | 8,00 | 4,76 | 1,25 | | | ○ | |
| 08NR-150ISO | 8,00 | 4,76 | 1,50 | | | ○ | |
| 08NR-175ISO | 8,00 | 4,76 | 1,75 | | | ○ | |
| 11NR-035ISO | 11,00 | 6,35 | 0,35 | | | ○ | |
| 11NR-040ISO | 11,00 | 6,35 | 0,40 | | | ○ | |
| 11NR-045ISO | 11,00 | 6,35 | 0,45 | | | ○ | |
| 11NR-050ISO | 11,00 | 6,35 | 0,50 | | | ○ | |
| 11NR-060ISO | 11,00 | 6,35 | 0,60 | | | ○ | |
| 11NR-070ISO | 11,00 | 6,35 | 0,70 | | | ○ | |
| 11NR-075ISO | 11,00 | 6,35 | 0,75 | | | ○ | |
| 11NR-080ISO | 11,00 | 6,35 | 0,80 | | | ○ | |
| 11NR-100ISO | 11,00 | 6,35 | 1,00 | | | ○ | |
| 11NR-125ISO | 11,00 | 6,35 | 1,25 | | | ○ | |
| 11NR-150ISO | 11,00 | 6,35 | 1,50 | | | ○ | |
| 11NR-175ISO | 11,00 | 6,35 | 1,75 | | | ○ | |
| 11NR-200ISO | 11,00 | 6,35 | 2,00 | | | ○ | |
| 11NR-250ISO | 11,00 | 6,35 | 2,50 | | | ○ | |
| 16NR-075ISO | 16,00 | 9,52 | 0,75 | | | ○ | |
| 16NR-100ISO | 16,00 | 9,52 | 1,00 | | | ○ | |
| 16NR-125ISO | 16,00 | 9,52 | 1,25 | | | ○ | |
| 16NR-150ISO | 16,00 | 9,52 | 1,50 | | | ○ | |
| 16NR-175ISO | 16,00 | 9,52 | 1,75 | | | ○ | |
| 16NR-200ISO | 16,00 | 9,52 | 2,00 | | | ○ | |
| 16NR-250ISO | 16,00 | 9,52 | 2,50 | | | ○ | |
| 16NR-300ISO | 16,00 | 9,52 | 3,00 | | | ○ | |
| 22NR-350ISO | 22,00 | 12,70 | 3,50 | | | ○ | |
| 22NR-400ISO | 22,00 | 12,70 | 4,00 | | | ○ | |
| 22NR-450ISO | 22,00 | 12,70 | 4,50 | | | ○ | |
| 22NR-500ISO | 22,00 | 12,70 | 5,00 | | | ○ | |
| 27NR-500ISO | 27,00 | 15,87 | 5,00 | | | ○ | |
| 27NR-550ISO | 27,00 | 15,87 | 5,50 | | | ○ | |
| 27NR-600ISO | 27,00 | 15,87 | 6,00 | | | ○ | |
| 27NR-800ISO | 27,00 | 15,87 | 8,00 | | | ○ | |

NL-ISO

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-------------|----------|----------|----------|-------------|-------------|--------------|-------------|
| 06NL-050ISO | 6,00 | 3,96 | 0,50 | | | ○ | |
| 06NL-075ISO | 6,00 | 3,96 | 0,75 | | | ○ | |
| 06NL-100ISO | 6,00 | 3,96 | 1,00 | | | ○ | |
| 06NL-125ISO | 6,00 | 3,96 | 1,25 | | | ○ | |
| 08NL-050ISO | 8,00 | 4,76 | 0,50 | | | ○ | |
| 08NL-075ISO | 8,00 | 4,76 | 0,75 | | | ○ | |
| 08NL-100ISO | 8,00 | 4,76 | 1,00 | | | ○ | |
| 08NL-125ISO | 8,00 | 4,76 | 1,25 | | | ○ | |
| 08NL-150ISO | 8,00 | 4,76 | 1,50 | | | ○ | |
| 08NL-175ISO | 8,00 | 4,76 | 1,75 | | | ○ | |
| 11NL-100ISO | 11,00 | 6,35 | 1,00 | | | ○ | |
| 11NL-150ISO | 11,00 | 6,35 | 1,50 | | | ○ | |
| 16NL-100ISO | 16,00 | 9,52 | 1,00 | | | ○ | |
| 16NL-125ISO | 16,00 | 9,52 | 1,25 | | | ○ | |
| 16NL-150ISO | 16,00 | 9,52 | 1,50 | | | ○ | |
| 16NL-175ISO | 16,00 | 9,52 | 1,75 | | | ○ | |
| 16NL-200ISO | 16,00 | 9,52 | 2,00 | | | ○ | |
| 16NL-250ISO | 16,00 | 9,52 | 2,50 | | | ○ | |
| 16NL-300ISO | 16,00 | 9,52 | 3,00 | | | ○ | |
| 22NL-400ISO | 22,00 | 12,70 | 4,00 | | | ○ | |

NR-ISO TD

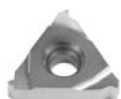
| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|----------------|----------|----------|----------|-------------|-------------|--------------|-------------|
| 16NR-100ISO TD | 16,50 | 9,52 | 1,00 | | | ● | |
| 16NR-125ISO TD | 16,50 | 9,52 | 1,25 | | | ● | |
| 16NR-150ISO TD | 16,50 | 9,52 | 1,50 | | | ● | |
| 16NR-175ISO TD | 16,50 | 9,52 | 1,75 | | | ● | |
| 16NR-200ISO TD | 16,50 | 9,52 | 2,00 | | | ● | |
| 16NR-250ISO TD | 16,50 | 9,52 | 2,50 | | | ● | |
| 16NR-300ISO TD | 16,50 | 9,52 | 3,00 | | | ● | |

Mechanical thread forms - External and internal inserts

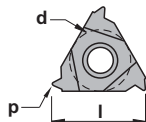
UNIFIED (full form) ASME/ANSI B1.1

Normally available for immediate delivery ●

Only available in a limited quantity ○



ER UN



ER

ER-UN

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|------|------|------|------|-------|------|
| 16ER-11UN | 16,00 | 9,52 | 11,0 | | | ○ | |
| 16ER-14UN | 16,00 | 9,52 | 14,0 | | | ○ | |
| 16ER-18UN | 16,00 | 9,52 | 18,0 | | | ○ | |

NR-UN

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|------|------|------|------|-------|------|
| 16NR-20UN | 16,00 | 9,52 | 20,0 | | | ○ | |
| 16NR-24UN | 16,00 | 9,52 | 24,0 | | | ○ | |

Mechanical thread forms - External and internal inserts

WHITWORTH (full form) BS84

Normally available for immediate delivery ●

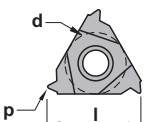
Only available in a limited quantity ○



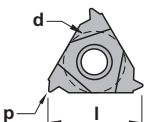
ER-W



ER-W TD



ER



EL

ER-W

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|------|------|------|-------|------|
| 11ER-14W | 11,00 | 6,35 | 14,0 | | | ○ | |
| 11ER-16W | 11,00 | 6,35 | 16,0 | | | ○ | |
| 11ER-18W | 11,00 | 6,35 | 18,0 | | | ○ | |
| 11ER-19W | 11,00 | 6,35 | 19,0 | | | ○ | |
| 11ER-22W | 11,00 | 6,35 | 22,0 | | | ○ | |
| 11ER-24W | 11,00 | 6,35 | 24,0 | | | ○ | |
| 11ER-26W | 11,00 | 6,35 | 26,0 | | | ○ | |
| 11ER-28W | 11,00 | 6,35 | 28,0 | | | ○ | |
| 11ER-40W | 11,00 | 6,35 | 40,0 | | | ○ | |
| 11ER-50W | 11,00 | 6,35 | 50,0 | | | ○ | |
| 11ER-56W | 11,00 | 6,35 | 56,0 | | | ○ | |
| 16ER-8W | 16,00 | 9,52 | 8,0 | | | ○ | |
| 16ER-9W | 16,00 | 9,52 | 9,0 | | | ○ | |
| 16ER-10W | 16,00 | 9,52 | 10,0 | | | ○ | |
| 16ER-11W | 16,00 | 9,52 | 11,0 | | | ○ | |
| 16ER-12W | 16,00 | 9,52 | 12,0 | | | ○ | |
| 16ER-14W | 16,00 | 9,52 | 14,0 | | | ○ | |
| 16ER-16W | 16,00 | 9,52 | 16,0 | | | ○ | |
| 16ER-18W | 16,00 | 9,52 | 18,0 | | | ○ | |
| 16ER-19W | 16,00 | 9,52 | 19,0 | | | ○ | |
| 16ER-20W | 16,00 | 9,52 | 20,0 | | | ○ | |
| 16ER-22W | 16,00 | 9,52 | 22,0 | | | ○ | |
| 16ER-24W | 16,00 | 9,52 | 24,0 | | | ○ | |
| 16ER-26W | 16,00 | 9,52 | 26,0 | | | ○ | |
| 16ER-28W | 16,00 | 9,52 | 28,0 | | | ○ | |
| 22ER-4W | 22,00 | 12,70 | 4,0 | | | ○ | |
| 22ER-4.5W | 22,00 | 12,70 | 4,5 | | | ○ | |
| 22ER-5W | 22,00 | 12,70 | 5,0 | | | ○ | |
| 22ER-6W | 22,00 | 12,70 | 6,0 | | | ○ | |
| 22ER-7W | 22,00 | 12,70 | 7,0 | | | ○ | |
| 22ER-8W | 22,00 | 12,70 | 8,0 | | | ○ | |
| 27ER-4W | 27,00 | 15,87 | 4,0 | | | ○ | |
| 27ER-4.5W | 27,00 | 15,87 | 4,5 | | | ○ | |

EL-W

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|----------|-------|------|------|------|------|-------|------|
| 16EL-11W | 16,00 | 9,52 | 11,0 | | | ○ | |
| 16EL-14W | 16,00 | 9,52 | 14,0 | | | ○ | |
| 16EL-20W | 16,00 | 9,52 | 20,0 | | | ○ | |

ER-W TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-------------|-------|------|------|------|------|-------|------|
| 16ER-11W TD | 16,50 | 9,52 | 11,0 | | | ○ | |
| 16ER-14W TD | 16,50 | 9,52 | 14,0 | | | ○ | |
| 16ER-16W TD | 16,50 | 9,52 | 16,0 | | | ○ | |

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading

Mechanical thread forms - Internal inserts
WHITWORTH (full form) BS84

Normally available for immediate delivery ●

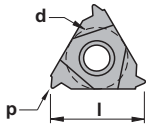
Only available in a limited quantity ○



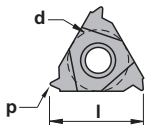
NR-W



NR-W TD



NR



NL

NR-W

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-----------|-------|-------|------|------|------|-------|------|
| 06NR-18W | 6,00 | 3,96 | 18,0 | | | ○ | |
| 06NR-19W | 6,00 | 3,96 | 19,0 | | | ○ | |
| 06NR-20W | 6,00 | 3,96 | 20,0 | | | ○ | |
| 06NR-22W | 6,00 | 3,96 | 22,0 | | | ○ | |
| 06NR-26W | 6,00 | 3,96 | 26,0 | | | ○ | |
| 08NR-16W | 8,00 | 4,76 | 16,0 | | | ○ | |
| 08NR-18W | 8,00 | 4,76 | 18,0 | | | ○ | |
| 08NR-19W | 8,00 | 4,76 | 19,0 | | | ○ | |
| 08NR-20W | 8,00 | 4,76 | 20,0 | | | ○ | |
| 08NR-24W | 8,00 | 4,76 | 24,0 | | | ○ | |
| 08NR-28W | 8,00 | 4,76 | 28,0 | | | ○ | |
| 11NR-11W | 11,00 | 6,35 | 11,0 | | | ○ | |
| 11NR-12W | 11,00 | 6,35 | 12,0 | | | ○ | |
| 11NR-14W | 11,00 | 6,35 | 14,0 | | | ○ | |
| 11NR-16W | 11,00 | 6,35 | 16,0 | | | ○ | |
| 11NR-18W | 11,00 | 6,35 | 18,0 | | | ○ | |
| 11NR-19W | 11,00 | 6,35 | 19,0 | | | ○ | |
| 11NR-20W | 11,00 | 6,35 | 20,0 | | | ○ | |
| 11NR-22W | 11,00 | 6,35 | 22,0 | | | ○ | |
| 11NR-24W | 11,00 | 6,35 | 24,0 | | | ○ | |
| 11NR-26W | 11,00 | 6,35 | 26,0 | | | ○ | |
| 11NR-28W | 11,00 | 6,35 | 28,0 | | | ○ | |
| 11NR-32W | 11,00 | 6,35 | 32,0 | | | ○ | |
| 11NR-36W | 11,00 | 6,35 | 36,0 | | | ○ | |
| 11NR-40W | 11,00 | 6,35 | 40,0 | | | ○ | |
| 11NR-48W | 11,00 | 6,35 | 48,0 | | | ○ | |
| 16NR-8W | 16,00 | 9,52 | 8,0 | | | ○ | |
| 16NR-9W | 16,00 | 9,52 | 9,0 | | | ○ | |
| 16NR-10W | 16,00 | 9,52 | 10,0 | | | ○ | |
| 16NR-11W | 16,00 | 9,52 | 11,0 | | | ○ | |
| 16NR-12W | 16,00 | 9,52 | 12,0 | | | ○ | |
| 16NR-14W | 16,00 | 9,52 | 14,0 | | | ○ | |
| 16NR-16W | 16,00 | 9,52 | 16,0 | | | ○ | |
| 16NR-18W | 16,00 | 9,52 | 18,0 | | | ○ | |
| 16NR-19W | 16,00 | 9,52 | 19,0 | | | ○ | |
| 16NR-20W | 16,00 | 9,52 | 20,0 | | | ○ | |
| 16NR-22W | 16,00 | 9,52 | 22,0 | | | ○ | |
| 16NR-24W | 16,00 | 9,52 | 24,0 | | | ○ | |
| 16NR-26W | 16,00 | 9,52 | 26,0 | | | ○ | |
| 16NR-28W | 16,00 | 9,52 | 28,0 | | | ○ | |
| 22NR-4W | 22,00 | 12,70 | 4,0 | | | ○ | |
| 22NR-4.5W | 22,00 | 12,70 | 4,5 | | | ○ | |
| 22NR-5W | 22,00 | 12,70 | 5,0 | | | ○ | |
| 22NR-6W | 22,00 | 12,70 | 6,0 | | | ○ | |
| 22NR-7W | 22,00 | 12,70 | 7,0 | | | ○ | |


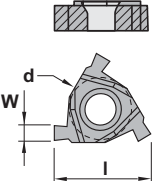
NL-W


| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|----------|-------|------|------|------|------|-------|------|
| 06NL-18W | 6,00 | 3,96 | 18,0 | | | ○ | |
| 06NL-20W | 6,00 | 3,96 | 20,0 | | | ○ | |
| 06NL-22W | 6,00 | 3,96 | 22,0 | | | ○ | |
| 06NL-26W | 6,00 | 3,96 | 26,0 | | | ○ | |
| 08NL-16W | 8,00 | 4,76 | 16,0 | | | ○ | |
| 08NL-18W | 8,00 | 4,76 | 18,0 | | | ○ | |
| 08NL-19W | 8,00 | 4,76 | 19,0 | | | ○ | |
| 08NL-20W | 8,00 | 4,76 | 20,0 | | | ○ | |
| 08NL-24W | 8,00 | 4,76 | 24,0 | | | ○ | |
| 08NL-28W | 8,00 | 4,76 | 28,0 | | | ○ | |
| 16NL-11W | 16,00 | 9,52 | 11,0 | | | ○ | |
| 16NL-14W | 16,00 | 9,52 | 14,0 | | | ○ | |
| 16NL-16W | 16,00 | 9,52 | 16,0 | | | ○ | |
| 16NL-20W | 16,00 | 9,52 | 20,0 | | | ○ | |


NR-W TD

| | l | d | p | KM15 | PM25 | TIN25 | TL20 |
|-------------|-------|------|------|------|------|-------|------|
| 16NR-8W TD | 16,50 | 9,52 | 8,0 | | | ○ | |
| 16NR-9W TD | 16,50 | 9,52 | 9,0 | | | ○ | |
| 16NR-10W TD | 16,50 | 9,52 | 10,0 | | | ○ | |
| 16NR-11W TD | 16,50 | 9,52 | 11,0 | | | ● | ○ |
| 16NR-12W TD | 16,50 | 9,52 | 12,0 | | | ○ | |
| 16NR-14W TD | 16,50 | 9,52 | 14,0 | | | ● | ○ |
| 16NR-16W TD | 16,50 | 9,52 | 16,0 | | | ○ | |
| 16NR-18W TD | 16,50 | 9,52 | 18,0 | | | ○ | |
| 16NR-19W TD | 16,50 | 9,52 | 19,0 | | | ○ | |


- Inserts
- General turning
- Aluminium wheel turning
- Automatic lathes
- Ceramic tools
- Parting and grooving
- Threading

| Grooving - External inserts | | Normally available for immediate delivery ● Only available in a limited quantity ○ | | | | | | | |
|---|--------------|---|-------|------|------|------|------|-------|------|
| Lock ring groove inserts type LG | | | | | | | | | |
|  ER-LG | ER-LG | | l | d | W | KM15 | PM25 | TIN25 | TL20 |
| | 16ER-100LG | | 16,00 | 9,52 | 1,15 | | | | ● |
| | 16ER-120LG | | 16,00 | 9,52 | 1,35 | | | | ● |
| | 16ER-150LG | | 16,00 | 9,52 | 1,65 | | | | ● |
| | 16ER-175LG | | 16,00 | 9,52 | 1,90 | | | | ● |
| | 16ER-200LG | | 16,00 | 9,52 | 2,15 | | | | ● |
| | 16ER-250LG | | 16,00 | 9,52 | 2,65 | | | | ● |
|  EL-LG | EL-LG | | l | d | W | KM15 | PM25 | TIN25 | TL20 |
| | 16EL-100LG | | 16,00 | 9,52 | 1,15 | | | | ● |
| | 16EL-120LG | | 16,00 | 9,52 | 1,35 | | | | ● |
| | 16EL-150LG | | 16,00 | 9,52 | 1,65 | | | | ● |
| | 16EL-175LG | | 16,00 | 9,52 | 1,90 | | | | ● |
| | 16EL-200LG | | 16,00 | 9,52 | 2,15 | | | | ● |

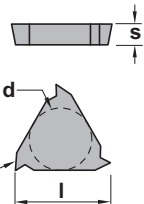
| Negative triangular insert for threading. | | Normally available for immediate delivery ● Only available in a limited quantity ○ | | | | | | | |
|--|-------------|---|-------|------|-------|------|------|-------|------|
|  TNMC | TNMC | | l | s | d | KM15 | PM25 | TIN16 | TL20 |
| | TNMC 1603XX | | 16,50 | 3,18 | 9,52 | | ○ | ○ | ● |
| | TNMC 2204XX | | 22,00 | 4,76 | 12,70 | | ● | ○ | ● |

| Negative triangular insert for threading. | | Normally available for immediate delivery ● Only available in a limited quantity ○ | | | | | | | |
|--|-------------|---|-------|------|-------|------|------|-------|------|
|  TPMC | TPMC | | l | s | d | KM15 | PM25 | TIN16 | TL20 |
| | TPMC 1603XX | | 16,50 | 3,18 | 9,52 | | ○ | ○ | ● |
| | TPMC 2204XX | | 22,00 | 4,76 | 12,70 | | ○ | ○ | ● |


Positive 7° clearance - Triangular insert for threading. Normally available for immediate delivery ●
Only available in a limited quantity ○



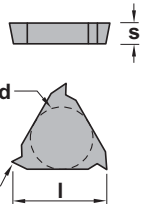
L166G-ISO

| | l | s | d | p | KM15 | PM25 | TIN25 | TL20 |
|---|-------|------|------|------|------|------|-------|------|
|  | | | | | | | | |
| L166G-3BA075 | 16,50 | 3,18 | 9,52 | 0,75 | | ○ | | |
| L166G-3BA100 | 16,50 | 3,18 | 9,52 | 1,00 | | ○ | | |
| L166G-3BA125 | 16,50 | 3,18 | 9,52 | 1,25 | | ○ | | |
| L166G-3BA150 | 16,50 | 3,18 | 9,52 | 1,50 | | ○ | | |
| L166G-3BA175 | 16,50 | 3,18 | 9,52 | 1,75 | | ○ | | |
| L166G-3BA200 | 16,50 | 3,18 | 9,52 | 2,00 | | ○ | | |
| L166G-3BA250 | 16,50 | 3,18 | 9,52 | 2,50 | | ○ | | |
| L166G-3BA300 | 16,50 | 3,18 | 9,52 | 3,00 | | ○ | | |


Positive 7° clearance - Triangular insert for threading. Normally available for immediate delivery ●
Only available in a limited quantity ○



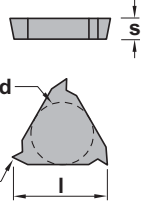
R166G-ISO

| | l | s | d | p | KM15 | PM25 | TIN25 | TL20 |
|---|-------|------|------|------|------|------|-------|------|
|  | | | | | | | | |
| R166G-3BA075 | 16,50 | 3,18 | 9,52 | 0,75 | | ○ | | |
| R166G-3BA100 | 16,50 | 3,18 | 9,52 | 1,00 | | ○ | | |
| R166G-3BA125 | 16,50 | 3,18 | 9,52 | 1,25 | | ○ | | |
| R166G-3BA150 | 16,50 | 3,18 | 9,52 | 1,50 | | ○ | | |
| R166G-3BA175 | 16,50 | 3,18 | 9,52 | 1,75 | | ○ | | |
| R166G-3BA200 | 16,50 | 3,18 | 9,52 | 2,00 | | ○ | | |
| R166G-3BA250 | 16,50 | 3,18 | 9,52 | 2,50 | | ○ | | |
| R166G-3BA300 | 16,50 | 3,18 | 9,52 | 3,00 | | ○ | | |


Positive 7° clearance - Triangular insert for threading. Normally available for immediate delivery ●
Only available in a limited quantity ○



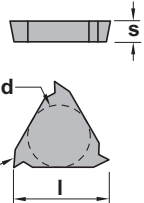
R166G-B

| | l | s | d | p | KM15 | PM25 | TIN25 | TL20 |
|---|-------|------|------|----|------|------|-------|------|
|  | | | | | | | | |
| R166G-3BK080 | 16,50 | 3,18 | 9,52 | 08 | | ○ | | |
| R166G-3BK160 | 16,50 | 3,18 | 9,52 | 16 | | ○ | | |
| R166G-3BL110 | 16,50 | 3,18 | 9,52 | 11 | | ○ | | |
| R166G-3BL160 | 16,50 | 3,18 | 9,52 | 16 | | ○ | | |


Positive 7° clearance - Triangular insert for threading. Normally available for immediate delivery ●
Only available in a limited quantity ○



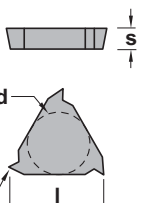
L166L-ISO

| | l | s | d | p | KM15 | PM25 | TIN25 | TL20 |
|---|-------|------|------|------|------|------|-------|------|
|  | | | | | | | | |
| L166L-3BA150 | 16,50 | 3,18 | 9,52 | 1,50 | | ○ | | |
| L166L-3BA175 | 16,50 | 3,18 | 9,52 | 1,75 | | ○ | | |
| L166L-3BA200 | 16,50 | 3,18 | 9,52 | 2,00 | | ○ | | |
| L166L-3BA250 | 16,50 | 3,18 | 9,52 | 2,50 | | ○ | | |
| L166L-3BA300 | 16,50 | 3,18 | 9,52 | 3,00 | | ○ | | |

Positive 7° clearance - Triangular insert for threading. Normally available for immediate delivery ●
Only available in a limited quantity ○



R166L-ISO

| | l | s | d | p | KM15 | PM25 | TIN25 | TL20 |
|---|-------|------|------|------|------|------|-------|------|
|  | | | | | | | | |
| R166L-2BA100 | 11,00 | 3,18 | 6,35 | 1,00 | | ○ | | |
| R166L-2BA150 | 11,00 | 3,18 | 6,35 | 1,50 | | ○ | | |
| R166L-3BA150 | 16,50 | 3,18 | 9,52 | 1,50 | | ○ | | |
| R166L-3BA175 | 16,50 | 3,18 | 9,52 | 1,75 | | ○ | | |
| R166L-3BA200 | 16,50 | 3,18 | 9,52 | 2,00 | | ○ | | |
| R166L-3BA250 | 16,50 | 3,18 | 9,52 | 2,50 | | ○ | | |
| R166L-3BA300 | 16,50 | 3,18 | 9,52 | 3,00 | | ○ | | |
| R166L-3BK080 | 16,50 | 3,18 | 9,52 | 08 | | ○ | | |

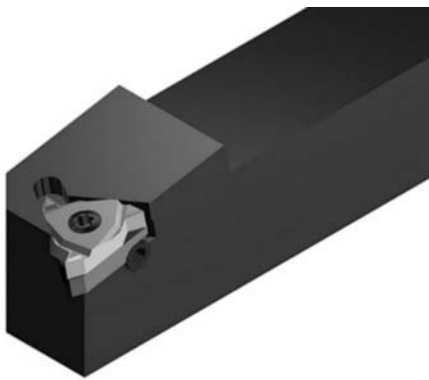
| |
|-------------------------|
| Inserts |
| General turning |
| Aluminium wheel turning |
| Automatic lathes |
| Ceramic tools |
| Parting and grooving |
| Threading |

External threading

| | | | | | |
|--|---|---|---|---|---|
| <p>SXAN 90°</p>  <p>08 ER/L... 11 ER/L... 16 ER/L... 22 ER/L...</p> <p>Page H.13</p> | <p>STAN 90°</p>  <p>16 ER/L... 22 ER/L... 27 ER/L...</p> <p>Page H.14</p> | <p>CTAN 90°</p>  <p>16 ER/L... 22 ER/L... 27 ER/L...</p> <p>Page H.15</p> | <p>SXGN 90°</p>  <p>Page H.16</p> <p>R/L 166G-3... R/L 166G-4...</p> | <p>STXN 90°</p>  <p>Page H.17</p> <p>16 ER/L... 22 ER/L... 27 ER/L...</p> | <p>CTXN 90°</p>  <p>Page H.18</p> <p>16 ER/L... 22 ER/L... 27 ER/L...</p> |
| <p>STCN 90°</p>  <p>Page H.19</p> <p>TNMC 1603... TPMC 1603... TNMC 2204... TPMC 2204...</p> | <p>CXAP 90°</p>  <p>Page H.20</p> <p>R/L 166-3... R/L 166-4...</p> | | | | |

Internal threading

| | | | | | |
|---|---|--|--|---|--|
| <p>SXFN 90°</p>  <p>Page H.21</p> <p>11 NR/L... 22 NR/L...</p> | <p>STXN 90°</p>  <p>Page H.23</p> <p>11 NR/L... 16 NR/L... 22 NR/L... 27 NR/L...</p> | <p>CTXN 90°</p>  <p>Page H.24</p> <p>16 NR/L... 22 NR/L... 27 NR/L...</p> | <p>STGN 90°</p>  <p>Page H.25</p> <p>TNMC 1603... TNMC 2204...</p> | <p>STGP 90°</p>  <p>Page H.26</p> <p>TPMC 1603... TPMC 2204...</p> | <p>CXFP 90°</p>  <p>Page H.27</p> <p>R/L 166-2... R/L 166-3... R/L 166-4...</p> |
|---|---|--|--|---|--|



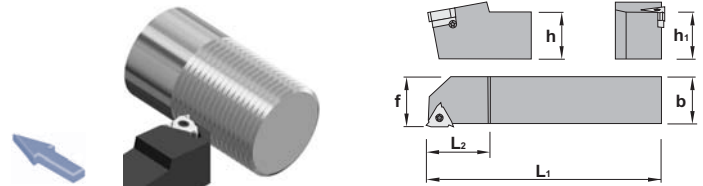
Characteristics:

Threading toolholder for negative lay down inserts.
The screw clamping ensures a good stiffness and evacuation of chips.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading toolholders.

Metric screws



SXAN 90°

| Ref. | | h=h ₁ | b | L ₁ | L ₂ | f | Insert size | Kg |
|-------------------|-------------------|------------------|----|----------------|----------------|----|-------------|-------|
| SXAN R/L 0808 M08 | | 8 | 8 | 150 | 20 | 8 | 08 ER/L.. | 0,070 |
| | SXAN R/L 1010 M08 | 10 | 10 | 150 | 20 | 10 | 08 ER/L.. | 0,100 |
| SXAN R/L 1212 M11 | | 12 | 12 | 150 | 20 | 12 | 11 ER/L.. | 0,140 |
| SXAN R/L 1616 H16 | | 16 | 16 | 100 | 22 | 16 | 16 ER/L.. | 0,200 |
| SXAN R/L 1616 M16 | | 16 | 16 | 150 | 22 | 16 | 16 ER/L.. | 0,270 |
| SXAN R/L 2020 K16 | | 20 | 20 | 125 | 28 | 20 | 16 ER/L.. | 0,400 |
| SXAN R/L 2525 M16 | | 25 | 25 | 150 | 28 | 25 | 16 ER/L.. | 0,700 |
| SXAN R/L 3232 P16 | | 32 | 32 | 170 | 28 | 32 | 16 ER/L.. | 1,300 |
| SXAN R/L 2525 M22 | | 25 | 25 | 150 | 34 | 25 | 22 ER/L.. | 0,700 |
| SXAN R/L 3232 P22 | | 32 | 32 | 170 | 34 | 32 | 22 ER/L.. | 1,300 |

| Ref. | | | | | |
|-------------------|------|------|------|------|------|
| SXAN R/L 0808 M08 | 1225 | 5507 | - | - | - |
| SXAN R/L 1010 M08 | 1225 | 5507 | - | - | - |
| SXAN R/L 1212 M11 | 1225 | 5507 | - | - | - |
| SXAN R/L 1616 H16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXAN R/L 1616 M16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXAN R/L 2020 K16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXAN R/L 2525 M16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXAN R/L 3232 P16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXAN R/L 2525 M22 | 1340 | 5515 | 3430 | 3431 | 1094 |
| SXAN R/L 3232 P22 | 1340 | 5515 | 3430 | 3431 | 1094 |

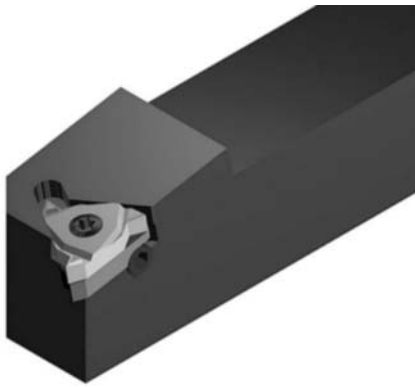
| Ref. | E R/L | | I | d | Negative triangular inserts for external threading |
|-----------|---------|-------|-------|------|--|
| | 08 ER/L | | 8,00 | 4,76 | |
| 11 ER/L | | 11,00 | 6,35 | | |
| 16 ER/L.. | | 16,00 | 9,52 | | |
| 22 ER/L.. | | 22,00 | 12,70 | | |

| ER/L | ER/L TD | | | | |
|------|---------|--|--|--|--|
| | | | | | |

For more information see page: H.04

Threading
Drills
Cartridges
Brazed tools
Tooling

- Inserts
- General turning
- Aluminium wheel turning
- Automatic lathes
- Ceramic tools
- Parting and grooving
- Threading



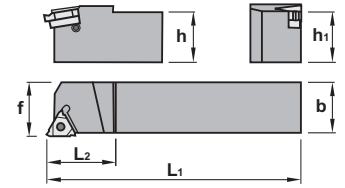
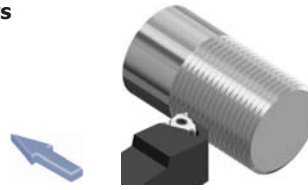
Characteristics:

Threading toolholder for negative lay down inserts.
The screw clamping ensures a good stiffness and evacuation of chips.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading toolholders.

Whitworth screws



| STAN 90° | | h=h₁ | b | L₁ | L₂ | f | Insert size | kg | |
|-----------------|-------------------|------------------------|----------|----------------------|----------------------|----------|--------------------|-----------|--|
| Ref. | STAN R/L 1616 H16 | 16 | 16 | 100 | 20,5 | 16 | 16 ER/L.. | 0,200 | |
| | STAN R/L 2020 K16 | 20 | 20 | 125 | 30,0 | 20 | 16 ER/L.. | 0,400 | |
| | STAN R/L 2525 M16 | 25 | 25 | 150 | 30,0 | 25 | 16 ER/L.. | 0,700 | |
| | STAN R/L 3232 P16 | 32 | 32 | 170 | 30,0 | 32 | 16 ER/L.. | 1,300 | |
| | STAN R/L 2525 M22 | 25 | 25 | 150 | 36,0 | 25 | 22 ER/L.. | 0,700 | |
| | STAN R/L 3232 P22 | 32 | 32 | 175 | 36,0 | 32 | 22 ER/L.. | 1,300 | |
| | STAN R/L 4040 R22 | 40 | 40 | 200 | 36,0 | 40 | 22 ER/L.. | 3,000 | |
| | STAN R/L 3232 P27 | 32 | 32 | 170 | 40,0 | 32 | 27 ER/L.. | 1,300 | |
| | STAN R/L 4040 R27 | 40 | 40 | 200 | 40,0 | 40 | 27 ER/L.. | 3,000 | |
| | STAN R/L 5050 S27 | 50 | 50 | 250 | 40,0 | 50 | 27 ER/L.. | 5,800 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Ref. | | | | | |
|-------------------|-----|------|-----|-----|-----|
| STAN R/L 1616 H16 | SA3 | 5510 | YE3 | Y13 | SY3 |
| STAN R/L 2020 K16 | SA3 | 5510 | YE3 | Y13 | SY3 |
| STAN R/L 2525 M16 | SA3 | 5510 | YE3 | Y13 | SY3 |
| STAN R/L 3232 P16 | SA3 | 5510 | YE3 | Y13 | SY3 |
| STAN R/L 2525 M22 | SA4 | 5520 | YE4 | Y14 | SY4 |
| STAN R/L 3232 P22 | SA4 | 5520 | YE4 | Y14 | SY4 |
| STAN R/L 4040 R22 | SA4 | 5520 | YE4 | Y14 | SY4 |
| STAN R/L 3232 P27 | SA5 | 5525 | YE5 | Y15 | SY5 |
| STAN R/L 4040 R27 | SA5 | 5525 | YE5 | Y15 | SY5 |
| STAN R/L 5050 S27 | SA5 | 5525 | YE5 | Y15 | SY5 |

| Ref. | E R/L | | l | d | Negative triangular inserts for external threading |
|-----------|--------------|----------------|----------|----------|--|
| | 16 ER/L.. | | 16,00 | 9,52 | |
| | 22 ER/L.. | | 22,00 | 12,70 | |
| 27 ER/L.. | | 27,50 | 15,88 | | |
| | ER/L | ER/L TD | | | |
| | | | | | |

For more information see page: H.04

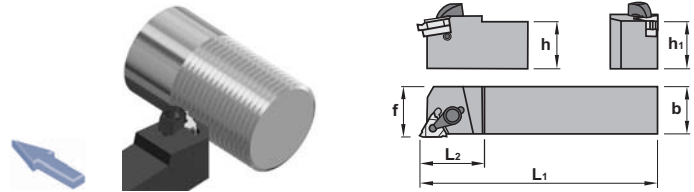


Characteristics:

Top clamp threading toolholder for negative lay down inserts.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading toolholders.



CTAN 90°

| Ref. | | h=h ₁ | b | L ₁ | L ₂ | f | Insert size | Kg |
|-------------------|-------------------|------------------|----|----------------|----------------|----|-------------|-------|
| CTAN R/L 2020 K16 | CTAN R/L 2020 K16 | 20 | 20 | 128,6 | 30 | 20 | 16 ER/L.. | 0,400 |
| | CTAN R/L 2525 M16 | 25 | 25 | 153,6 | 30 | 25 | 16 ER/L.. | 0,700 |
| | CTAN R/L 3232 P16 | 32 | 32 | 173,6 | 30 | 32 | 16 ER/L.. | 1,050 |
| CTAN R/L 2525 M22 | CTAN R/L 2525 M22 | 25 | 25 | 155,7 | 36 | 25 | 22 ER/L.. | 0,700 |
| | CTAN R/L 3232 P22 | 32 | 32 | 175,7 | 36 | 32 | 22 ER/L.. | 1,300 |
| | CTAN R/L 4040 R22 | 40 | 40 | 205,7 | 36 | 40 | 22 ER/L.. | 3,000 |
| CTAN R/L 3232 P27 | CTAN R/L 3232 P27 | 32 | 32 | 176,7 | 40 | 32 | 27 ER/L.. | 1,300 |
| | CTAN R/L 4040 R27 | 40 | 40 | 206,6 | 40 | 40 | 27 ER/L.. | 3,000 |
| | CTAN R/L 5050 S27 | 50 | 50 | 256,6 | 40 | 50 | 27 ER/L.. | 5,800 |

| Ref. | | | | | | | | | |
|-------------------|-------------------|------|------|-----|-----|-----|-----|-----|-----|
| CTAN R/L 2020 K16 | CTAN R/L 2020 K16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | SA3 | SA3 |
| | CTAN R/L 2525 M16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | SA3 | SA3 |
| | CTAN R/L 3232 P16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | SA3 | SA3 |
| CTAN R/L 2525 M22 | CTAN R/L 2525 M22 | 2522 | 5515 | YE4 | YI4 | SY4 | SA4 | SA4 | SA4 |
| | CTAN R/L 3232 P22 | 2522 | 5515 | YE4 | YI4 | SY4 | SA4 | SA4 | SA4 |
| | CTAN R/L 4040 R22 | 2522 | 5515 | YE4 | YI4 | SY4 | SA4 | SA4 | SA4 |
| CTAN R/L 3232 P27 | CTAN R/L 3232 P27 | 2527 | 5525 | YE5 | YI5 | SY5 | SA5 | SA5 | SA5 |
| | CTAN R/L 4040 R27 | 2527 | 5525 | YE5 | YI5 | SY5 | SA5 | SA5 | SA5 |
| | CTAN R/L 5050 S27 | 2527 | 5525 | YE5 | YI5 | SY5 | SA5 | SA5 | SA5 |

| d l | E R/L | | I | d | Negative triangular inserts for external threading For more information see page: H.04 |
|------------|-----------|-----------|-------|-------|---|
| | Ref. | 16 ER/L.. | 16,00 | 9,52 | |
| | | 22 ER/L.. | 22,00 | 12,70 | |
| | 27 ER/L.. | 27,50 | 15,88 | | |
| | ER/L | ER/L TD | | | |
| | | | | | |

Threading
Drills
Cartridges
Brazed tools
Tooling

- Inserts
- General turning
- Aluminium wheel turning
- Automatic lathes
- Ceramic tools
- Parting and grooving
- Threading



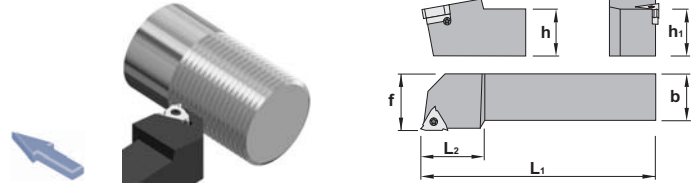
Characteristics:

Threading toolholder for negative lay down inserts.
The screw clamping ensures good stiffness and evacuation of chips.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.






Applications:



Multipurpose threading toolholders.

Metric screws



| SXGN 90° | | h=h₁ | b | L₁ | L₂ | f | Insert size | kg |
|-----------------|--------------------------|------------------------|----------|----------------------|----------------------|----------|--------------------|-----------|
| Ref. | SXGN R/L 1212 F16 | 12 | 12 | 80 | 22 | 16 | 16 ER/L.. | 0,100 |
| | SXGN R/L 1616 H16 | 16 | 16 | 100 | 22 | 20 | 16 ER/L.. | 0,200 |
| | SXGN R/L 2020 K16 | 20 | 20 | 125 | 28 | 25 | 16 ER/L.. | 0,400 |
| | SXGN R/L 2525 M16 | 25 | 25 | 150 | 28 | 32 | 16 ER/L.. | 0,700 |
| | SXGN R/L 3232 P16 | 32 | 32 | 170 | 28 | 40 | 16 ER/L.. | 1,050 |
| | SXGN R/L 2525 M22 | 25 | 25 | 150 | 34 | 32 | 22 ER/L.. | 0,700 |
| | SXGN R/L 3232 P22 | 32 | 32 | 170 | 34 | 40 | 22 ER/L.. | 1,050 |

| Ref. |  |  |  R |  L |  |
|--------------------------|---|---|--|---|---|
| SXGN R/L 1212 F16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXGN R/L 1616 H16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXGN R/L 2020 K16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXGN R/L 2525 M16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXGN R/L 3232 P16 | 1335 | 5515 | 3424 | 3425 | 1093 |
| SXGN R/L 2525 M22 | 1340 | 5515 | 3430 | 3431 | 1094 |
| SXGN R/L 3232 P22 | 1340 | 5515 | 3430 | 3431 | 1094 |

| Ref. | E R/L | | l | d | Negative triangular inserts for external threading |
|------|---|---|------------------|----------|--|
| | | 16 ER/L.. | 22 ER/L.. | 16,00 | |
| | | | 22,00 | 12,70 | |
| | ER/L | ER/L TD | | | |
| |  |  | | | |

For more information see page: H.04



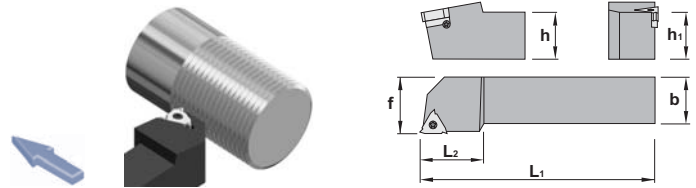
Characteristics:

Threading toolholder for negative lay down inserts.
The screw clamping ensures a good stiffness and evacuation of chips.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading toolholders.

Whitworth screws



STXN 90°

| Ref. | | h=h1 | b | L1 | L2 | f | Insert size | Kg |
|-------------------|-------------------|------|-----|------|------|-----------|-------------|-------|
| STXN R/L 1212 F16 | STXN R/L 1212 F16 | 12 | 12 | 80 | 22,0 | 16 | 16 ER/L.. | 0,100 |
| | STXN R/L 1616 H16 | 16 | 16 | 100 | 20,5 | 20 | 16 ER/L.. | 0,200 |
| | STXN R/L 2020 K16 | 20 | 20 | 125 | 30,0 | 25 | 16 ER/L.. | 0,400 |
| | STXN R/L 2525 M16 | 25 | 25 | 150 | 30,0 | 32 | 16 ER/L.. | 0,700 |
| | STXN R/L 3232 P16 | 32 | 32 | 170 | 30,0 | 40 | 16 ER/L.. | 1,050 |
| | STXN R/L 2525 M22 | 25 | 25 | 150 | 36,0 | 32 | 22 ER/L.. | 0,700 |
| | STXN R/L 3232 P22 | 32 | 32 | 170 | 36,0 | 40 | 22 ER/L.. | 1,300 |
| | STXN R/L 4040 R22 | 40 | 40 | 200 | 36,0 | 50 | 22 ER/L.. | 3,000 |
| | STXN R/L 2525 M27 | 25 | 25 | 150 | 35,0 | 32 | 27 ER/L.. | 0,700 |
| | STXN R/L 3232 P27 | 32 | 32 | 170 | 40,0 | 40 | 27 ER/L.. | 1,300 |
| STXN R/L 4040 R27 | 40 | 40 | 200 | 40,0 | 50 | 27 ER/L.. | 3,000 | |
| STXN R/L 5050 S27 | 50 | 50 | 250 | 40,0 | 60 | 27 ER/L.. | 5,800 | |

| Ref. | | | | | | |
|-------------------|-------------------|-----|------|-----|-----|-----|
| STXN R/L 1212 F16 | STXN R/L 1212 F16 | SA3 | 5510 | YE3 | YI3 | SY3 |
| | STXN R/L 1616 H16 | SA3 | 5510 | YE3 | YI3 | SY3 |
| | STXN R/L 2020 K16 | SA3 | 5510 | YE3 | YI3 | SY3 |
| | STXN R/L 2525 M16 | SA3 | 5510 | YE3 | YI3 | SY3 |
| | STXN R/L 3232 P16 | SA3 | 5510 | YE3 | YI3 | SY3 |
| STXN R/L 2525 M22 | STXN R/L 2525 M22 | SA4 | 5520 | YE4 | YI4 | SY4 |
| | STXN R/L 3232 P22 | SA4 | 5520 | YE4 | YI4 | SY4 |
| | STXN R/L 4040 R22 | SA4 | 5520 | YE4 | YI4 | SY4 |
| STXN R/L 2525 M27 | STXN R/L 2525 M27 | SA5 | 5525 | YE5 | YI5 | SY5 |
| | STXN R/L 3232 P27 | SA5 | 5525 | YE5 | YI5 | SY5 |
| | STXN R/L 4040 R27 | SA5 | 5525 | YE5 | YI5 | SY5 |
| | STXN R/L 5050 S27 | SA5 | 5525 | YE5 | YI5 | SY5 |

| | E R/L | | l | | d | | Negative triangular inserts for external threading For more information see page: H.04 | | | | |
|--|-------|-----------|-----------|-----------|-------|-------|---|-------|------|-------|-------|
| | Ref. | 16 ER/L.. | 22 ER/L.. | 27 ER/L.. | 16,00 | 22,00 | | 27,50 | 9,52 | 12,70 | 15,88 |
| | | ER/L | ER/L TD | | | | | | | | |

Inserts

General turning

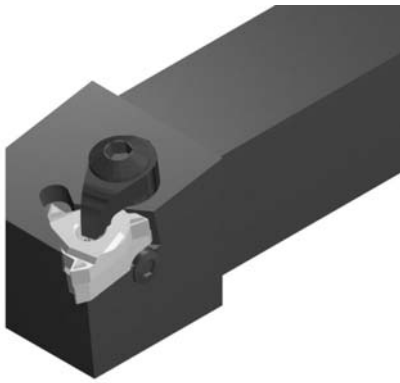
Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading

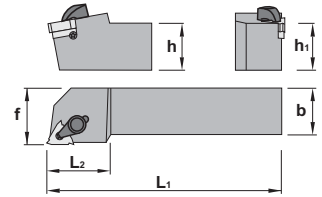
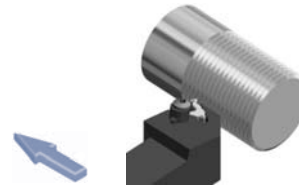


Characteristics:

Top clamp threading toolholder for negative lay down inserts.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading toolholders.



CTXN 90°

| Ref. | | h=h ₁ | b | L ₁ | L ₂ | f | Insert size | Kg |
|-------------------|-------------------|------------------|-------|----------------|----------------|-----------|-------------|-------|
| Ref. | CTXN R/L 1212 F16 | 12 | 12 | 83,2 | 22,0 | 16 | 16 ER/L.. | 0,100 |
| | CTXN R/L 1616 H16 | 16 | 16 | 100,0 | 20,5 | 20 | 16 ER/L.. | 0,200 |
| | CTXN R/L 2020 K16 | 20 | 20 | 128,6 | 30,0 | 25 | 16 ER/L.. | 0,400 |
| | CTXN R/L 2525 M16 | 25 | 25 | 153,6 | 30,0 | 32 | 16 ER/L.. | 0,700 |
| | CTXN R/L 3232 P16 | 32 | 32 | 173,6 | 30,0 | 40 | 16 ER/L.. | 1,050 |
| | CTXN R/L 2525 M22 | 25 | 25 | 155,7 | 36,0 | 32 | 22 ER/L.. | 0,700 |
| | CTXN R/L 3232 P22 | 32 | 32 | 175,7 | 36,0 | 40 | 22 ER/L.. | 1,300 |
| | CTXN R/L 4040 R22 | 40 | 40 | 205,7 | 36,0 | 50 | 22 ER/L.. | 3,000 |
| | CTXN R/L 2525 M27 | 25 | 25 | 151,6 | 35,0 | 32 | 27 ER/L.. | 0,700 |
| | CTXN R/L 3232 P27 | 32 | 32 | 176,7 | 40,0 | 40 | 27 ER/L.. | 1,300 |
| CTXN R/L 4040 R27 | 40 | 40 | 206,6 | 40,0 | 50 | 27 ER/L.. | 3,000 | |
| CTXN R/L 5050 S27 | 50 | 50 | 256,6 | 40,0 | 60 | 27 ER/L.. | 5,800 | |

| Ref. | | | | | | | | | | | | |
|-------------------|------|------|-----|-----|-----|-----|--|--|--|--|--|--|
| Ref. | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | | | | | | |
| CTXN R/L 1212 F16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | | | | | | |
| CTXN R/L 1616 H16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | | | | | | |
| CTXN R/L 2020 K16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | | | | | | |
| CTXN R/L 2525 M16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | | | | | | |
| CTXN R/L 3232 P16 | 2516 | 5515 | YE3 | YI3 | SY3 | SA3 | | | | | | |
| CTXN R/L 2525 M22 | 2522 | 5515 | YE4 | YI4 | SY4 | SA4 | | | | | | |
| CTXN R/L 3232 P22 | 2522 | 5515 | YE4 | YI4 | SY4 | SA4 | | | | | | |
| CTXN R/L 4040 R22 | 2522 | 5515 | YE4 | YI4 | SY4 | SA4 | | | | | | |
| CTXN R/L 2525 M27 | 2527 | 5525 | YE5 | YI5 | SY5 | SA5 | | | | | | |
| CTXN R/L 3232 P27 | 2527 | 5525 | YE5 | YI5 | SY5 | SA5 | | | | | | |
| CTXN R/L 4040 R27 | 2527 | 5525 | YE5 | YI5 | SY5 | SA5 | | | | | | |
| CTXN R/L 5050 S27 | 2527 | 5525 | YE5 | YI5 | SY5 | SA5 | | | | | | |

Optional

| Ref. | E R/L | | I | d | Negative triangular inserts for external threading |
|-----------|-----------|---------|-------|------|--|
| | 16 ER/L.. | | 16,00 | 9,52 | |
| 22 ER/L.. | | 22,00 | 12,70 | | |
| 27 ER/L.. | | 27,50 | 15,88 | | |
| | | | | | For more information see page: H.04 |
| | ER/L | ER/L TD | | | |
| | | | | | |

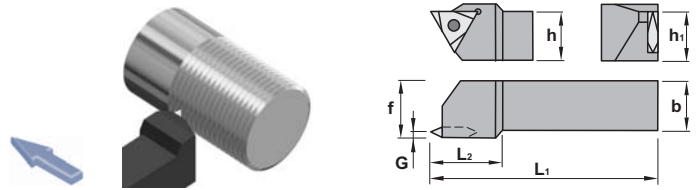


Characteristics:

Vertical on edge threading toolholder.
The insert is positioned with a 0° cutting angle, and a 0° clearance angle.

Applications:

Toolholders for threading.

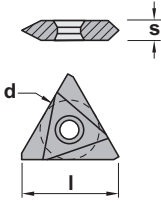


STCN 90°

| Ref. | | h=h ₁ | b | L ₁ | L ₂ | f | G | Insert size | /kg |
|-------------------|-------------------|------------------|-----|----------------|----------------|------|------------------|------------------|-------|
| Ref. | STCN R/L 1212 F16 | 12 | 12 | 80 | 23 | 16 | 1,59 | TNMC/TPMC 1603.. | 0,100 |
| | STCN R/L 1616 H16 | 16 | 16 | 100 | 23 | 19 | 1,59 | TNMC/TPMC 1603.. | 0,200 |
| | STCN R/L 2020 K16 | 20 | 20 | 125 | 23 | 22 | 1,59 | TNMC/TPMC 1603.. | 0,400 |
| | STCN R/L 2525 M16 | 25 | 25 | 150 | 23 | 32 | 1,59 | TNMC/TPMC 1603.. | 0,700 |
| | STCN R/L 3232 P16 | 32 | 32 | 170 | 23 | 38 | 1,59 | TNMC/TPMC 1603.. | 1,050 |
| | STCN R/L 2020 K22 | 20 | 20 | 125 | 32 | 22 | 2,38 | TNMC/TPMC 2204.. | 0,400 |
| | STCN R/L 2525 M22 | 25 | 25 | 150 | 32 | 32 | 2,38 | TNMC/TPMC 2204.. | 0,700 |
| | STCN R/L 3225 P22 | 32 | 25 | 170 | 32 | 32 | 2,38 | TNMC/TPMC 2204.. | 1,025 |
| | STCN R/L 3232 P22 | 32 | 32 | 170 | 32 | 38 | 2,38 | TNMC/TPMC 2204.. | 1,050 |
| | STCN R/L 2525 M27 | 25 | 25 | 150 | 32 | 32 | 2,38 | TNMC/TPMC 2704.. | 0,700 |
| STCN R/L 3232 P27 | 32 | 32 | 170 | 32 | 38 | 2,38 | TNMC/TPMC 2704.. | 1,050 | |

| Ref. | | | |
|-------------------|-------------------|------|------|
| Ref. | STCN R/L 1212 F16 | 1935 | 5002 |
| | STCN R/L 1616 H16 | 1935 | 5002 |
| | STCN R/L 2020 K16 | 1935 | 5002 |
| | STCN R/L 2525 M16 | 1935 | 5002 |
| | STCN R/L 3232 P16 | 1935 | 5002 |
| | STCN R/L 2020 K22 | 1950 | 5025 |
| | STCN R/L 2525 M22 | 1950 | 5025 |
| | STCN R/L 3225 P22 | 1950 | 5025 |
| | STCN R/L 3232 P22 | 1950 | 5025 |
| | STCN R/L 2525 M27 | 1955 | 5003 |
| STCN R/L 3232 P27 | 1955 | 5003 | |

| Ref. | TNMC/TPMC | | | Negative triangular inserts for threading |
|--------------|-----------|------|-------|---|
| | l | s | d | |
| T..MC 1603.. | 16,50 | 3,18 | 9,52 | For more information see page: H.10 |
| T..MC 2204.. | 22,00 | 4,76 | 12,70 | |
| T..MC 2704.. | 27,00 | 4,76 | 15,88 | |
| | TNMC | TPMC | | |
| | | | | |



Threading
Drills
Cartridges
Brazed tools
Tooling

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading

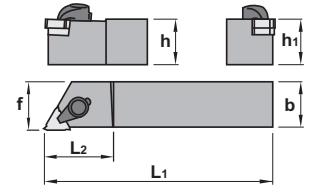
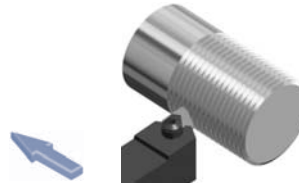


Characteristics:

Toolholder for flat positive inserts.
The insert is positioned with a 0° cutting angle, and a 0° clearance angle.

Applications:

Threading toolholder.



CXAP 90°

| Ref. | | h=h ₁ | b | L ₁ | L ₂ | f | Insert size | Kg |
|-------------------|-------------------|------------------|----|----------------|----------------|----|-------------|-------|
| CXAP R/L 2016 K16 | CXAP R/L 2016 K16 | 20 | 16 | 125 | 22 | 17 | R/L 166-3.. | 0,300 |
| | CXAP R/L 2020 K16 | 20 | 20 | 125 | 28 | 21 | R/L 166-3.. | 0,400 |
| | CXAP R/L 2525 M16 | 25 | 25 | 150 | 28 | 26 | R/L 166-3.. | 0,700 |
| | CXAP R/L 3225 P16 | 32 | 25 | 170 | 28 | 26 | R/L 166-3.. | 1,050 |
| | CXAP R/L 3232 P16 | 32 | 32 | 170 | 28 | 33 | R/L 166-3.. | 1,300 |
| | CXAP R/L 2525 M22 | 25 | 25 | 150 | 34 | 26 | R/L 166-4.. | 0,700 |
| CXAP R/L 3225 P22 | CXAP R/L 3225 P22 | 32 | 25 | 170 | 34 | 26 | R/L 166-4.. | 1,050 |
| | CXAP R/L 3232 P22 | 32 | 32 | 170 | 34 | 33 | R/L 166-4.. | 1,300 |

| Ref. | | | | | | | |
|-------------------|-------------------|------|------|----------|------|------|-------------|
| CXAP R/L 2016 K16 | CXAP R/L 2016 K16 | 2209 | 5003 | 3126 R/L | 4012 | 2409 | 9216 - 9316 |
| | CXAP R/L 2020 K16 | 2209 | 5003 | 3126 R/L | 4012 | 2409 | 9216 - 9316 |
| | CXAP R/L 2525 M16 | 2209 | 5003 | 3126 R/L | 4012 | 2409 | 9216 - 9316 |
| | CXAP R/L 3225 P16 | 2209 | 5003 | 3126 R/L | 4012 | 2409 | 9216 - 9316 |
| | CXAP R/L 3232 P16 | 2209 | 5003 | 3126 R/L | 4012 | 2409 | 9216 - 9316 |
| CXAP R/L 2525 M22 | CXAP R/L 2525 M22 | 2211 | 5004 | 3132 R/L | 4012 | 2411 | 9222 - 9322 |
| | CXAP R/L 3225 P22 | 2211 | 5004 | 3132 R/L | 4012 | 2411 | 9222 - 9322 |
| | CXAP R/L 3232 P22 | 2211 | 5004 | 3132 R/L | 4012 | 2411 | 9222 - 9322 |

Supplementary accessories

| | | R/L 166 | l | s | d | Positive triangular inserts for threading |
|-------------------------------------|---------|-------------|-------|------|-------|---|
| | Ref. | R/L 166-3.. | 16,50 | 3,18 | 9,52 | |
| | | R/L 166-4.. | 22,00 | 4,76 | 12,70 | |
| For more information see page: H.11 | | | | | | |
| | R/L 166 | | | | | |
| | | | | | | |



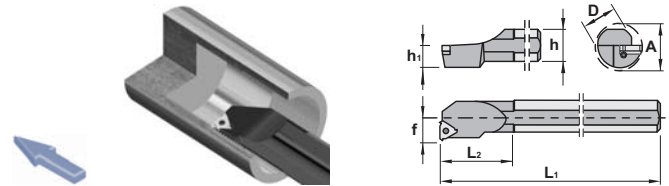
Characteristics:

Threading toolholder for negative lay down inserts.
The center screw ensures a good stiffness and evacuation of chips.
The insert is positioned with a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading boring bars.

Metric screws



SXFN 90°

| Ref. | | D | h | h ₁ | L ₁ | L ₂ | f | A | Insert size | Kg |
|------------------|------------------|----|----|----------------|----------------|----------------|------|----|-------------|-------|
| S10K SXFN R/L 11 | | 10 | 9 | 4,5 | 125 | 16 | 7,3 | 13 | 11 NR/L.. | 0,070 |
| | S16M SXFN R/L 11 | 16 | 15 | 7,5 | 150 | 25 | 8,9 | 16 | 11 NR/L.. | 0,200 |
| S16M SXFN R/L 16 | | 16 | 15 | 7,5 | 150 | 25 | 11,5 | 20 | 16 NR/L.. | 0,200 |
| S20Q SXFN R/L 16 | | 20 | 18 | 9,0 | 180 | 25 | 13,4 | 24 | 16 NR/L.. | 0,400 |
| S25S SXFN R/L 16 | | 25 | 23 | 11,5 | 250 | 35 | 16,3 | 29 | 16 NR/L.. | 0,900 |
| S32T SXFN R/L 16 | | 32 | 30 | 15,0 | 300 | 40 | 19,6 | 36 | 16 NR/L.. | 1,750 |
| S40T SXFN R/L 16 | | 40 | 37 | 18,5 | 300 | 40 | 23,8 | 44 | 16 NR/L.. | 2,700 |
| S20Q SXFN R/L 22 | | 20 | 18 | 9,0 | 180 | 25 | 15,6 | 27 | 22 NR/L.. | 0,400 |
| S25S SXFN R/L 22 | | 25 | 23 | 11,5 | 250 | 35 | 17,2 | 32 | 22 NR/L.. | 0,900 |
| S32T SXFN R/L 22 | | 32 | 30 | 15,0 | 300 | 40 | 21,5 | 39 | 22 NR/L.. | 1,750 |
| S40T SXFN R/L 22 | | 40 | 37 | 18,5 | 300 | 40 | 25,8 | 47 | 22 NR/L.. | 2,700 |

| Ref. | | | | | |
|------------------|------|------|------|------|------|
| S10K SXFN R/L 11 | 1225 | 5507 | - | - | - |
| S16M SXFN R/L 11 | 1225 | 5507 | - | - | - |
| S16M SXFN R/L 16 | 1635 | 5510 | - | - | - |
| S20Q SXFN R/L 16 | 1334 | 5515 | 3425 | 3424 | 1093 |
| S25S SXFN R/L 16 | 1335 | 5515 | 3425 | 3424 | 1093 |
| S32T SXFN R/L 16 | 1335 | 5515 | 3425 | 3424 | 1093 |
| S40T SXFN R/L 16 | 1335 | 5515 | 3425 | 3424 | 1093 |
| S20Q SXFN R/L 22 | 1640 | 5515 | - | - | - |
| S25S SXFN R/L 22 | 1340 | 5515 | 3431 | 3430 | 1094 |
| S32T SXFN R/L 22 | 1340 | 5515 | 3431 | 3430 | 1094 |
| S40T SXFN R/L 22 | 1340 | 5515 | 3431 | 3430 | 1094 |

| | N R/L | | | Negative triangular inserts for internal threading | | |
|-----------|-----------|---------|------|--|--|--|
| | Ref. | l | d | | | |
| | 11 NR/L.. | 11,00 | 6,35 | | | |
| 16 NR/L.. | 16,00 | 9,52 | | | | |
| 22 NR/L.. | 22,00 | 12,70 | | | | |
| | NR/L | NR/L TD | | | | |
| | | | | | | |

For more information see page: H.05

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading



Characteristics:
Boring bars with anti-vibration shank.

| H-SXFN 90° | | | | | | | | | | | |
|------------|------------------|----|----|-----|-----|------|------|----|-------------|-------|--|
| | | D | h | h1 | L1 | L2 | f | A | Insert size | | |
| Ref. | H10K SXFN R/L 11 | 10 | 9 | 4,5 | 125 | 16 | 7,3 | 13 | 11 NR/L.. | 0,130 | |
| | H16M SXFN R/L 11 | 16 | 15 | 7,5 | 150 | 25 | 8,9 | 16 | 11 NR/L.. | 0,400 | |
| | H16M SXFN R/L 16 | 16 | 15 | 7,5 | 150 | 25 | 11,5 | 20 | 16 NR/L.. | 0,400 | |
| | | | | | | | | | | | |
| Ref. | H10K SXFN R/L 11 | | | | | 1225 | | | | 5507 | |
| | H16M SXFN R/L 11 | | | | | 1225 | | | | 5507 | |
| | H16M SXFN R/L 16 | | | | | 1635 | | | | 5510 | |



Characteristics:
Boring bars with internal coolant and anti-vibration shank.

| J-SXFN 90° | | | | | | | | | | | |
|------------|------------------|----|----|-----|-----|------|------|----|-------------|-------|--|
| | | D | h | h1 | L1 | L2 | f | A | Insert size | | |
| Ref. | J10K SXFN R/L 11 | 10 | 9 | 4,5 | 125 | 16 | 7,3 | 13 | 11 NR/L.. | 0,150 | |
| | J16M SXFN R/L 11 | 16 | 15 | 7,5 | 150 | 25 | 8,9 | 16 | 11 NR/L.. | 0,450 | |
| | J16M SXFN R/L 16 | 16 | 15 | 7,5 | 150 | 25 | 11,5 | 20 | 16 NR/L.. | 0,450 | |
| | | | | | | | | | | | |
| Ref. | J10K SXFN R/L 11 | | | | | 1225 | | | | 5507 | |
| | J16M SXFN R/L 11 | | | | | 1225 | | | | 5507 | |
| | J16M SXFN R/L 16 | | | | | 1635 | | | | 5510 | |

| Negative triangular inserts for internal threading | N R/L | | l | d |
|--|-------|-----------|-----------|-------|
| | Ref. | 11 NR/L.. | 16 NR/L.. | 11,00 |
| | | | 16,00 | 9,52 |
| For more information see page: H.05 | | | | |
| | NR/L | NR/L TD | | |
| | | | | |



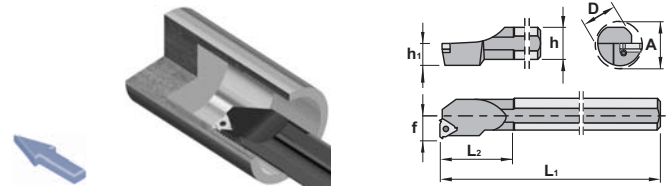
Characteristics:

Threading toolholder for negative lay down inserts.
The center screw ensures a good stiffness and evacuation of chips.
The insert is positioned with a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading boring bars.

Whitworth screws



STXN 90°

| Ref. | | D | h | h ₁ | L ₁ | L ₂ | f | A | Insert size | Kg |
|------------------|------------------|----|------|----------------|----------------|----------------|------|------------|-------------|-------|
| S16M STXN R/L 16 | S16M STXN R/L 16 | 16 | 15 | 7,5 | 150 | 32 | 11,5 | 15,2 | 16 NR/L... | 0,200 |
| | S20Q STXN R/L 16 | 20 | 18 | 9,0 | 180 | 40 | 13,4 | 18,0 | 16 NR/L... | 0,400 |
| | S25R STXN R/L 16 | 25 | 23 | 11,5 | 200 | 45 | 16,3 | 22,6 | 16 NR/L... | 0,700 |
| | S32S STXN R/L 16 | 32 | 30 | 15,0 | 250 | 60 | 19,6 | 29,0 | 16 NR/L... | 1,500 |
| | S40T STXN R/L 16 | 40 | 37 | 18,5 | 300 | 60 | 23,8 | 36,0 | 16 NR/L... | 2,850 |
| | S20Q STXN R/L 22 | 20 | 18 | 9,0 | 180 | 50 | 15,6 | 18,0 | 22 NR/L... | 0,400 |
| | S25R STXN R/L 22 | 25 | 23 | 11,5 | 200 | 60 | 17,2 | 22,6 | 22 NR/L... | 0,700 |
| | S32S STXN R/L 22 | 32 | 30 | 15,0 | 250 | 60 | 21,5 | 29,0 | 22 NR/L... | 1,500 |
| | S40T STXN R/L 22 | 40 | 37 | 18,5 | 300 | 60 | 25,8 | 36,0 | 22 NR/L... | 2,850 |
| | S32S STXN R/L 27 | 32 | 30 | 15,0 | 250 | 60 | 22,4 | 40,0 | 27 NR/L... | 1,500 |
| S40T STXN R/L 27 | 40 | 37 | 18,5 | 300 | 60 | 26,4 | 48,0 | 27 NR/L... | 2,850 | |
| S50U STXN R/L 27 | 50 | 47 | 23,5 | 350 | 75 | 31,4 | 58,0 | 27 NR/L... | 5,200 | |
| S60V STXN R/L 27 | 60 | 57 | 28,5 | 400 | 75 | 36,4 | 69,0 | 27 NR/L... | 8,550 | |

| Ref. | | | | | |
|------------------|-----|-----|-----|-----|-----|
| S16M STXN R/L 16 | SN3 | SA3 | YI3 | YE3 | SY3 |
| S20Q STXN R/L 16 | SN3 | SA3 | YI3 | YE3 | SY3 |
| S25R STXN R/L 16 | SA3 | SA3 | YI3 | YE3 | SY3 |
| S32S STXN R/L 16 | SA3 | SA3 | YI3 | YE3 | SY3 |
| S40T STXN R/L 16 | SA3 | SA3 | YI3 | YE3 | SY3 |
| S20Q STXN R/L 22 | SN4 | SA4 | YI4 | YE4 | SY4 |
| S25R STXN R/L 22 | SA4 | SA4 | YI4 | YE4 | SY4 |
| S32S STXN R/L 22 | SA4 | SA4 | YI4 | YE4 | SY4 |
| S40T STXN R/L 22 | SA4 | SA4 | YI4 | YE4 | SY4 |
| S32S STXN R/L 27 | SA5 | SA5 | YI5 | YE5 | SY5 |
| S40T STXN R/L 27 | SA5 | SA5 | YI5 | YE5 | SY5 |
| S50U STXN R/L 27 | SA5 | SA5 | YI5 | YE5 | SY5 |
| S60V STXN R/L 27 | SA5 | SA5 | YI5 | YE5 | SY5 |

| Ref. | N R/L | | I | d | Negative triangular inserts for internal threading |
|------------|------------|---------|-------|------|--|
| | 16 NR/L... | | 16,00 | 9,52 | |
| 22 NR/L... | | 22,00 | 12,70 | | |
| 27 NR/L... | | 27,00 | 15,87 | | |
| | NR/L | NR/L TD | | | |
| | | | | | |

For more information see page: H.05

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading

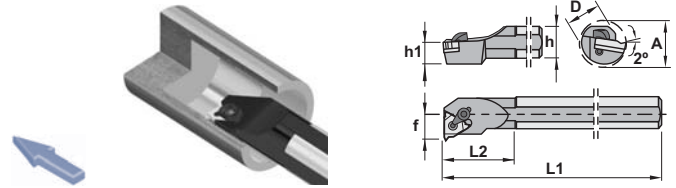


Characteristics:

Top clamp threading toolholder for negative lay down inserts.
The top clamp ensures a good stiffness and evacuation of chips.
The insert is positioned with a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading boring bars.



CTXN 90°

| Ref. | | D | h | h1 | L1 | L2 | f | A | Insert size | Kg |
|------------------|------------------|----|----|------|-----|----|------|------|-------------|-------|
| S20Q CTXN R/L 16 | S20Q CTXN R/L 16 | 20 | 18 | 9,0 | 180 | 50 | 13,0 | 18,0 | 16 NR/L.. | 0,400 |
| | S25R CTXN R/L 16 | 25 | 23 | 11,5 | 200 | 45 | 17,0 | 22,6 | 16 NR/L.. | 0,700 |
| | S32S CTXN R/L 16 | 32 | 30 | 15,0 | 250 | 60 | 22,0 | 29,0 | 16 NR/L.. | 1,500 |
| | S40T CTXN R/L 16 | 40 | 37 | 18,5 | 300 | 60 | 27,0 | 36,0 | 16 NR/L.. | 2,850 |
| S25R CTXN R/L 22 | S25R CTXN R/L 22 | 25 | 23 | 11,5 | 200 | 45 | 17,0 | 22,6 | 22 NR/L.. | 0,700 |
| | S32S CTXN R/L 22 | 32 | 30 | 15,0 | 250 | 60 | 22,0 | 29,0 | 22 NR/L.. | 1,500 |
| | S40T CTXN R/L 22 | 40 | 37 | 18,5 | 300 | 60 | 27,0 | 36,0 | 22 NR/L.. | 2,850 |
| S32S CTXN R/L 27 | S32S CTXN R/L 27 | 32 | 30 | 15,0 | 250 | 60 | 22,4 | 40,0 | 27 NR/L.. | 1,500 |
| | S40T CTXN R/L 27 | 40 | 37 | 18,5 | 300 | 60 | 26,4 | 48,0 | 27 NR/L.. | 2,850 |
| | S50U CTXN R/L 27 | 50 | 47 | 23,5 | 350 | 75 | 31,4 | 58,0 | 27 NR/L.. | 5,200 |
| | S60V CTXN R/L 27 | 60 | 58 | 29,0 | 400 | 75 | 36,4 | 69,0 | 27 NR/L.. | 8,550 |

| Ref. | | | | | | | |
|------------------|------|------|-----|-----|-----|-----|-----|
| S20Q CTXN R/L 16 | 2516 | 5515 | YI3 | YE3 | SY3 | SA3 | SN3 |
| S25R CTXN R/L 16 | 2516 | 5515 | YI3 | YE3 | SY3 | SA3 | SA3 |
| S32S CTXN R/L 16 | 2516 | 5515 | YI3 | YE3 | SY3 | SA3 | SA3 |
| S40T CTXN R/L 16 | 2516 | 5515 | YI3 | YE3 | SY3 | SA3 | SA3 |
| S25R CTXN R/L 22 | 2522 | 5515 | YI4 | YE4 | SY4 | SA4 | SA4 |
| S32S CTXN R/L 22 | 2522 | 5515 | YI4 | YE4 | SY4 | SA4 | SA4 |
| S40T CTXN R/L 22 | 2522 | 5515 | YI4 | YE4 | SY4 | SA4 | SA4 |
| S32S CTXN R/L 27 | 2527 | 5525 | YI5 | YE5 | SY5 | SA5 | SA5 |
| S40T CTXN R/L 27 | 2527 | 5525 | YI5 | YE5 | SY5 | SA5 | SA5 |
| S50U CTXN R/L 27 | 2527 | 5525 | YI5 | YE5 | SY5 | SA5 | SA5 |
| S60V CTXN R/L 27 | 2527 | 5525 | YI5 | YE5 | SY5 | SA5 | SA5 |

Optional

| Ref. | N R/L | | l | d | Negative triangular inserts for internal threading |
|------|-----------|-----------|-----------|-------|--|
| | 16 NR/L.. | 22 NR/L.. | 27 NR/L.. | 16,00 | |
| | | | 22,00 | 12,70 | |
| | | | 27,00 | 15,87 | |
| | NR/L | NR/L TD | | | |
| | | | | | |

For more information see page: H.05

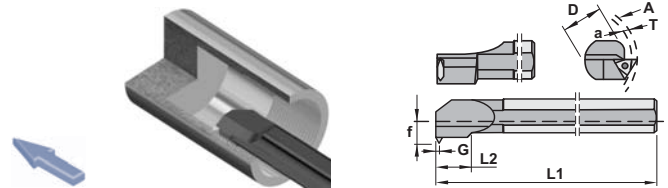


Characteristics:

Vertical on edge threading toolholder.
The insert is positioned with a 0° cutting angle, and a 0° clearance angle.

Applications:

Threading boring bar.

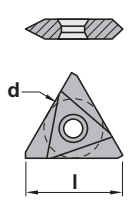


STGN 90°

| Ref. | | D | L1 | L2 | f | A | a | T | G | Insert size | Kg |
|------------------|------------------|----|-----|----|------|------|----|-----|------|-------------|-------|
| S32U STGN R/L 16 | S32U STGN R/L 16 | 32 | 350 | 19 | 21,0 | 50,4 | 45 | 2,7 | 1,59 | TNMC 1603.. | 2,100 |
| | S40V STGN R/L 16 | 40 | 400 | 19 | 25,0 | 60,4 | 55 | 2,7 | 1,59 | TNMC 1603.. | 3,650 |
| S32U STGN R/L 22 | S32U STGN R/L 22 | 32 | 350 | 28 | 21,0 | 50,4 | 45 | 4,1 | 2,38 | TNMC 2204.. | 2,100 |
| | S40V STGN R/L 22 | 40 | 400 | 28 | 25,0 | 60,4 | 55 | 4,1 | 2,38 | TNMC 2204.. | 3,650 |
| | S50W STGN R/L 22 | 50 | 450 | 28 | 36,5 | 78,2 | 70 | 4,1 | 2,38 | TNMC 2204.. | 6,700 |
| S40V STGN R/L 27 | S40V STGN R/L 27 | 40 | 400 | 28 | 25,0 | 60,4 | 55 | 6,0 | 3,18 | TNMC 2704.. | 3,650 |
| | S50W STGN R/L 27 | 50 | 450 | 28 | 36,5 | 78,2 | 70 | 6,0 | 3,18 | TNMC 2704.. | 6,700 |

| Ref. | | | |
|------------------|------------------|------|------|
| S32U STGN R/L 16 | S32U STGN R/L 16 | 1935 | 5002 |
| | S40V STGN R/L 16 | 1935 | 5002 |
| S32U STGN R/L 22 | S32U STGN R/L 22 | 1950 | 5025 |
| | S40V STGN R/L 22 | 1950 | 5025 |
| | S50W STGN R/L 22 | 1950 | 5025 |
| S40V STGN R/L 27 | S40V STGN R/L 27 | 1955 | 5003 |
| | S50W STGN R/L 27 | 1955 | 5003 |

| | | TNMC | | | | Triangular inserts for threading. |
|-------------------------------------|-------------|-------|------|-------|--|-----------------------------------|
| Ref. | | l | s | d | | |
| | TNMC 1603.. | 16,50 | 3,18 | 9,52 | | |
| | TNMC 2204.. | 22,00 | 4,76 | 12,70 | | |
| | TNMC 2704.. | 27,00 | 4,76 | 15,88 | | |
| For more information see page: H.10 | | | | | | |
| | TNMC | | | | | |
| | | | | | | |



Inserts

General turning

Aluminium wheel turning

Automatic lathes

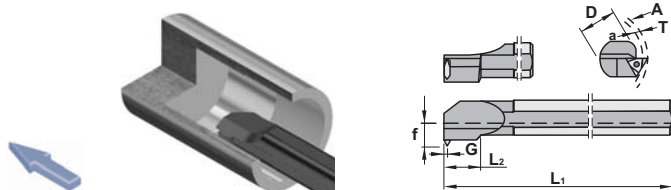
Ceramic tools

Parting and grooving

Threading



Characteristics:
Vertical on edge threading toolholder.
The insert is positioned with a 0° cutting angle, and a 0° clearance angle.
Applications:
Threading boring bar.

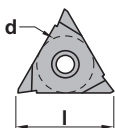


STGP 90°

| Ref. | | D | L1 | L2 | f | A | a | T | G | Insert size | Kg |
|------------------|------------------|----|-----|----|------|------|----|-----|------|-------------|-------|
| S25T STGP R/L 16 | S25T STGP R/L 16 | 25 | 300 | 19 | 17,5 | 50,4 | 45 | 2,7 | 1,59 | TPMC 1603.. | 1,100 |
| | S32U STGP R/L 16 | 32 | 350 | 19 | 20,5 | 50,4 | 45 | 2,7 | 1,59 | TPMC 1603.. | 2,100 |
| S40V STGP R/L 22 | S40V STGP R/L 22 | 40 | 400 | 28 | 25,0 | 78,2 | 70 | 4,1 | 2,38 | TPMC 2204.. | 3,650 |
| | S50W STGP R/L 22 | 50 | 450 | 28 | 36,5 | 78,2 | 70 | 4,1 | 2,38 | TPMC 2204.. | 6,700 |

| Ref. | | | |
|------------------|------------------|------|------|
| S25T STGP R/L 16 | S25T STGP R/L 16 | | 5002 |
| | S32U STGP R/L 16 | 1935 | 5002 |
| S40V STGP R/L 22 | S40V STGP R/L 22 | 1950 | 5025 |
| | S50W STGP R/L 22 | 1950 | 5025 |

| Ref. | TPMC | l | s | d | Triangular inserts for threading. |
|-------------------------------------|-------------|-------|-------|------|-----------------------------------|
| | TPMC 1603.. | 16,50 | 3,18 | 9,52 | |
| TPMC 2204.. | 22,00 | 4,76 | 12,70 | | |
| For more information see page: H.10 | | | | | |
| TNMC | | | | | |
| | | | | | |



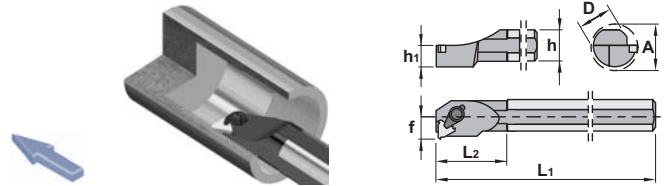


Characteristics:

Threading toolholder for flat positive inserts.
The insert is positioned with a 0° cutting angle, and a 0° clearance angle.

Applications:

Threading boring bar.



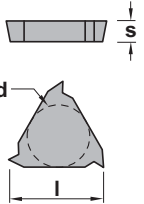
CXFP 90°

| Ref. | | D | h | h ₁ | L ₁ | L ₂ | f | A | Insert size | /kg |
|------------------|------------------|----|----|----------------|----------------|----------------|----|----|-------------|-------|
| S16R CXFP R/L 11 | S16R CXFP R/L 11 | 16 | 15 | 7,5 | 200 | 30 | 11 | 20 | R/L 166-2.. | 0,300 |
| | S20S CXFP R/L 11 | 20 | 18 | 9,0 | 250 | 35 | 13 | 24 | R/L 166-2.. | 0,550 |
| S20S CXFP R/L 16 | S20S CXFP R/L 16 | 20 | 18 | 9,0 | 250 | 35 | 13 | 24 | R/L 166-3.. | 0,550 |
| S25T CXFP R/L 16 | S25T CXFP R/L 16 | 25 | 23 | 11,5 | 300 | 40 | 17 | 31 | R/L 166-3.. | 1,050 |
| S32U CXFP R/L 16 | S32U CXFP R/L 16 | 32 | 30 | 15,0 | 350 | 50 | 22 | 39 | R/L 166-3.. | 2,050 |
| S40V CXFP R/L 22 | S40V CXFP R/L 22 | 40 | 37 | 18,5 | 400 | 60 | 27 | 48 | R/L 166-4.. | 3,650 |

| Ref. | | | |
|------------------|------------------|------|------|
| S16R CXFP R/L 11 | S16R CXFP R/L 11 | 2107 | 5025 |
| | S20S CXFP R/L 11 | 2107 | 5025 |
| S20S CXFP R/L 16 | S20S CXFP R/L 16 | 2109 | 5003 |
| S25T CXFP R/L 16 | S25T CXFP R/L 16 | 2109 | 5003 |
| S32U CXFP R/L 16 | S32U CXFP R/L 16 | 2209 | 5003 |
| S40V CXFP R/L 22 | S40V CXFP R/L 22 | 2211 | 5004 |

| Ref. | R/L 166 | | | Positive triangular inserts for threading | | |
|-------------|---------|------|-------|---|--|--|
| | l | s | d | | | |
| R/L 166-2.. | 11,00 | 3,18 | 6,35 | | | |
| R/L 166-3.. | 16,50 | 3,18 | 9,52 | | | |
| R/L 166-4.. | 22,00 | 4,76 | 12,70 | | | |
| R/L 166 | | | | | | |

For more information see page: H.11



Cutting data

| Material | Cutting speed m/min. (Ft/min) Tool grade | | |
|--|---|----------------------|----------------------|
| | PM25 | KM15 | TIN25 |
| Low and medium carbon steel | 120-80 (390-260) | | 250-210 (820-690) |
| High carbon steel | 110-70 (360-230) | | 210-150 (690-490) |
| Alloyed tool steel and heat-treatment steels | 100-70 (360-230) | | 180-140 (590-460) |
| Stainless steels | 100-70 (360-230) | 90-70 (295-230) | 140-110 (460-360) |
| Cast-iron HB 180-250 | | 90-70 (295-230) | |
| Non-Ferrous metals | | 180-120 (590-390) | |

| N° of passes | | |
|--------------|------|--------------|
| P mm | TPI | N° of passes |
| 0,50 | 48,0 | 4 - 6 |
| 0,75 | 32,0 | 4 - 7 |
| 1,00 | 24,0 | 4 - 8 |
| 1,25 | 20,0 | 5 - 9 |
| 1,50 | 16,0 | 6 - 10 |
| 1,75 | 14,0 | 7 - 12 |
| 2,00 | 12,0 | 7 - 12 |
| 2,50 | 10,0 | 8 - 14 |
| 3,00 | 8,0 | 10 - 18 |
| 3,50 | 7,0 | 11 - 18 |
| 4,00 | 6,0 | 11 - 18 |
| 4,50 | 5,5 | 11 - 19 |
| 5,00 | 5,0 | 12 - 20 |
| 5,50 | 4,5 | 12 - 20 |
| 6,00 | 4,0 | 12 - 20 |
| 8,00 | 3,0 | 15 - 24 |

General recommendations :

- Threading speeds should normally be a minimum of 80% to 90% of turning speeds being used to machine the same component. (Assuming grades are compatible).
- Check helix angle and number of passes shown in charts before starting.
- Ensure centre height is correct.
- When there is a problem consult the following recommendations and change only one variable at time. This will help to be sure of the original problem.
- Do not use flank infeed on work hardening materials.

Component problems

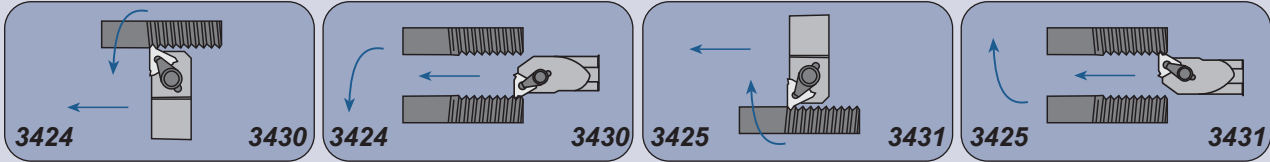
| | Problem | Cause and remedy |
|---|--|--|
| Pitch error (on CNC machines) | <ul style="list-style-type: none"> ★ Starting too close to workpiece ★ Saddle speed towards chuck is excessive | <ul style="list-style-type: none"> ☆ Start cycle further back from workpiece. ☆ Reduce speed by 10% until correct. |
| Thread torn on one side only | <ul style="list-style-type: none"> ★ Incorrect helix angle in toolholder. | <ul style="list-style-type: none"> ☆ Check helix chart. ☆ Reassemble with correct anvil. ☆ Check centre height. |
| Thread torn on both sides | <ul style="list-style-type: none"> ★ Running too slow. ★ Built up edge. | <ul style="list-style-type: none"> ☆ Increase cutting speed. ☆ Check center height. ☆ Use coated grade. ☆ Compare thread speed with turning speed. |
| Long dangerous swarf | <ul style="list-style-type: none"> ★ Incorrect chipbreaker geometry. ★ Incorrect method of infeed. | <ul style="list-style-type: none"> ☆ Use Canela (TD) chipbreaker. ☆ Use different infeed method. |
| Vibration chatter marks on both flanks | <ul style="list-style-type: none"> ★ Poor stability. ★ Excessive overhang. | <ul style="list-style-type: none"> ☆ Renew anvil to support insert. ☆ Check tool clamping. ☆ Check rigidity of setup. |
| Shallow threads Problem with gauging | <ul style="list-style-type: none"> ★ Insert not cresting. ★ Incorrect effective diameter. | <ul style="list-style-type: none"> ☆ Check machined diameters. ☆ Excessive tool wear or chipped on nose see remedies above. |

Helix chart

Feed direction towards the chuck

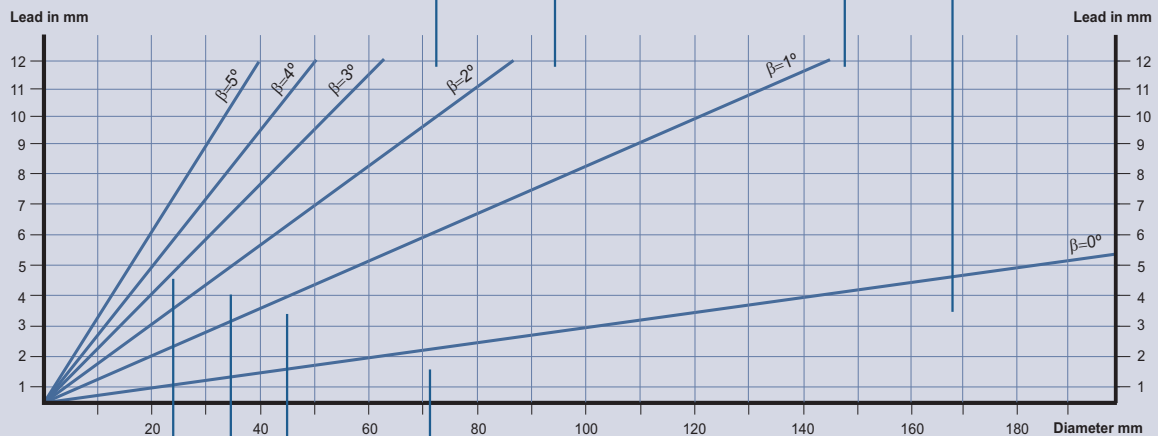
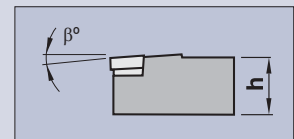
RH Thread - RH Tool

LH Thread - LH Tool



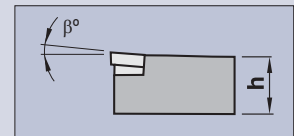
Anvil to give correct helix

| Insert size | +3° | +2° | +1° | +0° |
|-------------|--------|--------|--------|------|
| 16R | 3424+3 | 3424+2 | 3424+1 | 3424 |
| 16L | 3425+3 | 3425+2 | 3425+1 | 3425 |
| 22R | 3430+3 | 3430+2 | 3430+1 | 3430 |
| 22L | 3431+3 | 3431+2 | 3431+1 | 3431 |



Anvil to give correct helix

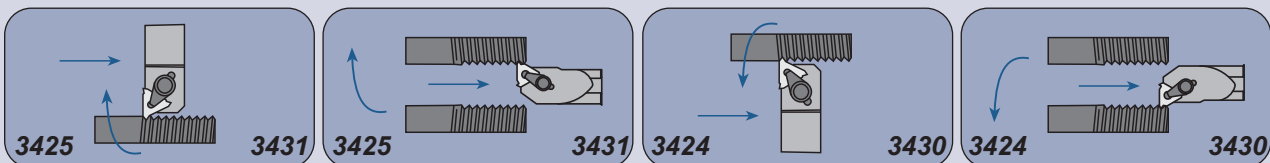
| Insert size | -3° | -2° | -1° | 0° |
|-------------|--------|--------|--------|------|
| 16R | 3424-3 | 3424-2 | 3424-1 | 3424 |
| 16L | 3425-3 | 3425-2 | 3425-1 | 3425 |
| 22R | 3430-3 | 3430-2 | 3430-1 | 3430 |
| 22L | 3431-3 | 3431-2 | 3431-1 | 3431 |



Feed direction away from the chuck

RH Thread - RH chuck

LH Thread - LH Tool



Inserts

General turning

Aluminium wheel turning

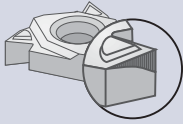
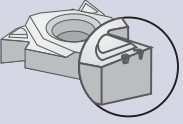
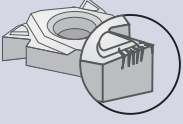
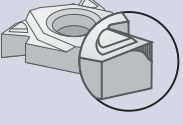
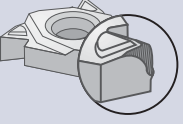
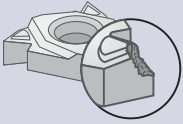
Automatic lathes

Ceramic tools

Parting and grooving

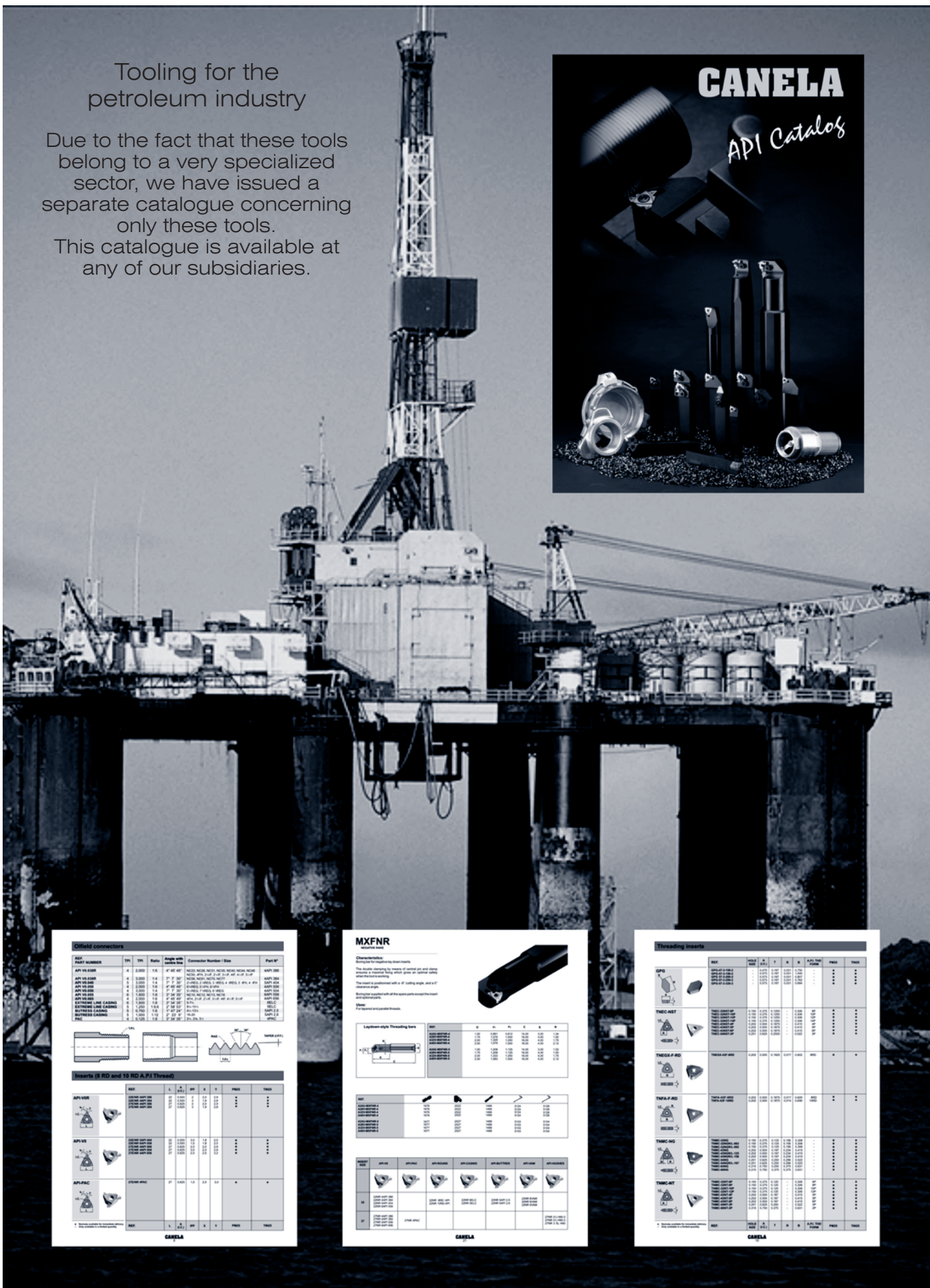
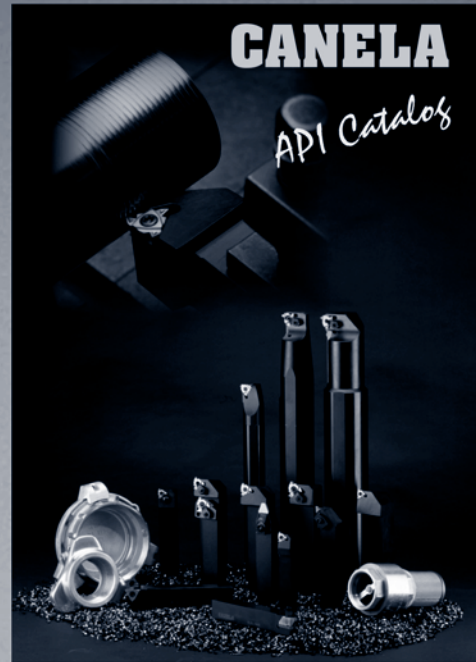
Threading

Threading insert wear and tool life

| | Problem | Cause and Remedy |
|---|--|---|
|  | <ul style="list-style-type: none"> ★ Cutting speed too high. ★ Lack of coolant. ★ Infeed per pass too small - too many passes ★ Incorrect grade. | <ul style="list-style-type: none"> ☆ Reduce the cutting speed. ☆ Increase the coolant supply. ☆ Increase the depth of infeed for the smallest infeed depths - reduce the number of passes. ☆ Select a more wear resistant grade. |
|  | <ul style="list-style-type: none"> ★ Instability of workholding and/or tool set-up. | <ul style="list-style-type: none"> ☆ Check rigidity of operation. ☆ Select a tougher grade. |
|  | <ul style="list-style-type: none"> ★ Intermittent coolant supply. | <ul style="list-style-type: none"> ☆ Position coolant flow and/or increase coolant supply. |
|  | <ul style="list-style-type: none"> ★ Incorrect method of infeed. ★ Incorrect angle of inclination. | <ul style="list-style-type: none"> ☆ In case of flank infeed use modified flank infeed. Decrease infeed angle 3-5°. ☆ Correct the angle on inclination according to the diagram. |
|  | <ul style="list-style-type: none"> ★ Infeed per pass too big - too few passes. ★ Lack of coolant. ★ Cutting speed too high. ★ Incorrect grade. ★ Excessive stock removal from crest. | <ul style="list-style-type: none"> ☆ Decrease the depth of infeed for the biggest depths. - Increase the number of passes. ☆ Increase coolant supply. ☆ Reduce the cutting speed. ☆ Select a harder grade. ☆ Check the volume of the material above the crest. |
|  | <ul style="list-style-type: none"> ★ Instability. ★ Lack of chip control. ★ Excessive plastic deformation. ★ Intermittent or inadequate coolant supply ★ Incorrect preparation of the operation | <ul style="list-style-type: none"> ☆ Check rigidity of operation. ☆ Select a tougher grade. Select modified flank infeed. ☆ Machine with same infeed per pass. ☆ Direct coolant flow and/or increase coolant supply. ☆ Check dimension of blank. |
| <p>Shallow thread profile</p> | <ul style="list-style-type: none"> ★ Wrong centre height. ★ Insert not cresting. ★ Excessive tool wear. | <ul style="list-style-type: none"> ☆ Adjust cutting edge height. ☆ Check dimension of blank. ☆ Change insert earlier. |
| <p>Incorrect thread profile</p> | <ul style="list-style-type: none"> ★ Incorrect tool setting. | <ul style="list-style-type: none"> ☆ Correct tool setting. |
| <p>Lack of chip control</p> | <ul style="list-style-type: none"> ★ Incorrect depth of infeed per pass ★ Radial infeed. | <ul style="list-style-type: none"> ☆ Adjust cutting edge height. ☆ Check dimension of blank. ☆ Change insert earlier. |
| <p>Bad surface finish</p> | <ul style="list-style-type: none"> ★ Cutting speed too low. ★ Incorrect angle of inclination. ★ Flank infeed. | <ul style="list-style-type: none"> ☆ Increase the cutting speed. ☆ Correct the angle of inclination according to diagram. ☆ Use modified flank infeed or radial infeed. |

Tooling for the petroleum industry

Due to the fact that these tools belong to a very specialized sector, we have issued a separate catalogue concerning only these tools. This catalogue is available at any of our subsidiaries.



Offroad connectors

| REF. | TYPE | Ratio | Angle with vertical line | Connector Number / Size | Part #1 |
|---------------------|------|-------|--------------------------|-------------------------|---------|
| API 10 SUPER | 4 | 2.000 | 1.6° | 4" 40' 40' | API 10 |
| API 10 SUPER | 4 | 2.000 | 1.6° | 2" 40' 40' | API 10 |
| API 10 SUPER | 4 | 2.000 | 1.6° | 1.5" 40' 40' | API 10 |
| API 10 SUPER | 4 | 2.000 | 1.6° | 1" 40' 40' | API 10 |
| API 10 SUPER | 4 | 2.000 | 1.6° | 0.75" 40' 40' | API 10 |
| API 10 SUPER | 4 | 2.000 | 1.6° | 0.5" 40' 40' | API 10 |
| EXTREME LINE CASING | 4 | 2.000 | 1.6° | 4" 40' 40' | API 10 |
| EXTREME LINE CASING | 4 | 2.000 | 1.6° | 2" 40' 40' | API 10 |
| EXTREME LINE CASING | 4 | 2.000 | 1.6° | 1.5" 40' 40' | API 10 |
| EXTREME LINE CASING | 4 | 2.000 | 1.6° | 1" 40' 40' | API 10 |
| EXTREME LINE CASING | 4 | 2.000 | 1.6° | 0.75" 40' 40' | API 10 |
| EXTREME LINE CASING | 4 | 2.000 | 1.6° | 0.5" 40' 40' | API 10 |

Inserts (8 RD and 10 RD & PJ Thread)

| REF. | TYPE | Ratio | Angle with vertical line | Part #1 | Part #2 |
|---------|------|-------|--------------------------|---------|---------|
| API 10R | 4 | 2.000 | 1.6° | API 10R | API 10R |
| API 10 | 4 | 2.000 | 1.6° | API 10 | API 10 |
| API PAC | 4 | 2.000 | 1.6° | API PAC | API PAC |

MXFNR

Characteristics:
 - Designed for high speed drilling.
 - The design allows for more of contact per unit and more contact area, increasing the axial force on the cutting edge.
 - The insert is positioned with a 1° cutting angle and a 1° clearance angle.
 - Suitable for use with all the cutting inserts in the MXFNR range.

Uses:
 - For general purpose drilling.

Laminar-type Threading Inserts

| REF. | TYPE | Ratio | Angle with vertical line | Part #1 | Part #2 |
|---------|------|-------|--------------------------|---------|---------|
| API 10R | 4 | 2.000 | 1.6° | API 10R | API 10R |
| API 10 | 4 | 2.000 | 1.6° | API 10 | API 10 |
| API PAC | 4 | 2.000 | 1.6° | API PAC | API PAC |

Threading inserts

| REF. | TYPE | Ratio | Angle with vertical line | Part #1 | Part #2 |
|---------|------|-------|--------------------------|---------|---------|
| API 10R | 4 | 2.000 | 1.6° | API 10R | API 10R |
| API 10 | 4 | 2.000 | 1.6° | API 10 | API 10 |
| API PAC | 4 | 2.000 | 1.6° | API PAC | API PAC |