

Inserts

Toolholders

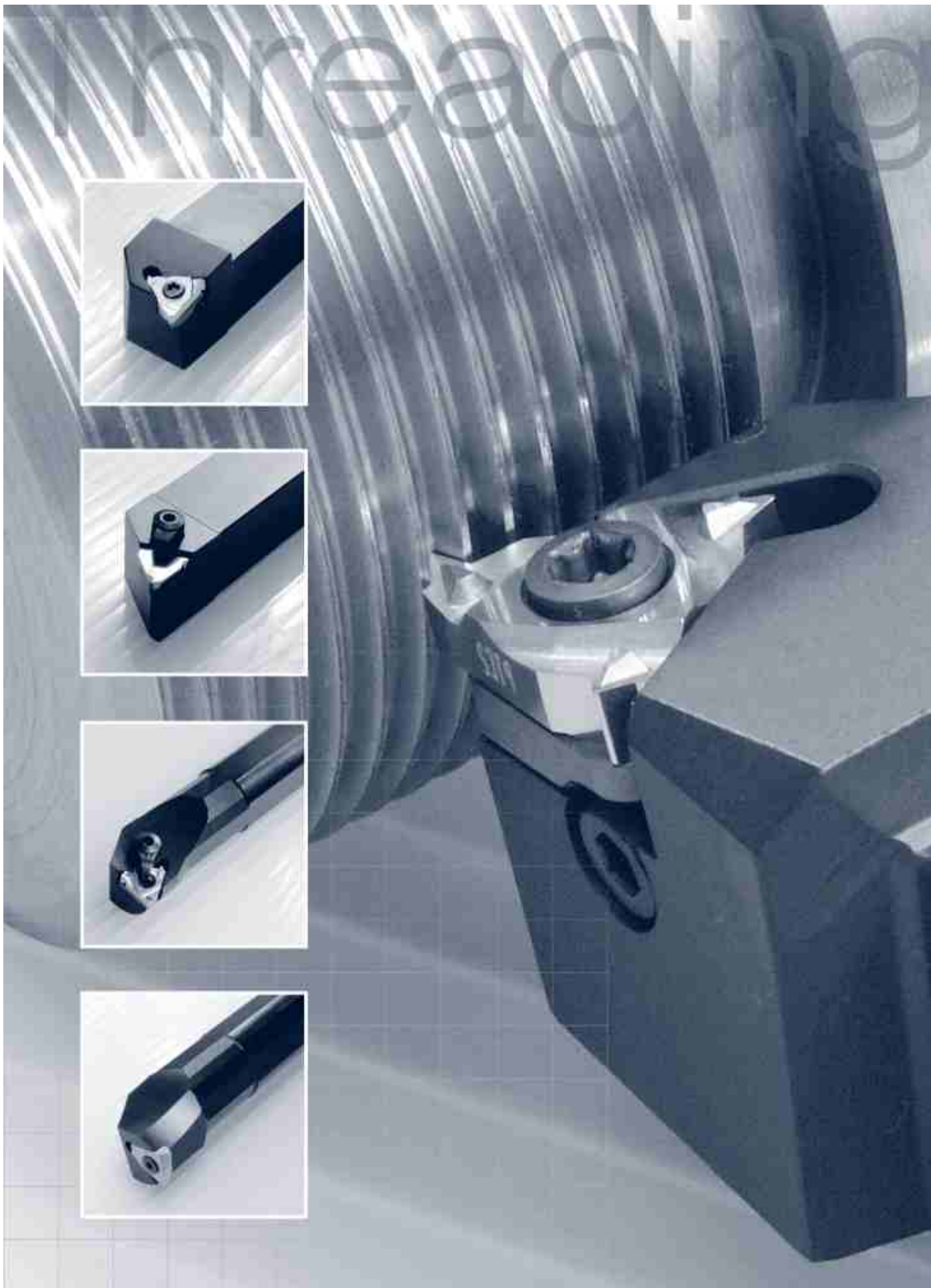
Boring bars

Automatic lathes

Ceramic tools

Parting and grooving

Threading



Threading

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

Threading

Drills

Cartridges

Brazed tools

Tooling

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

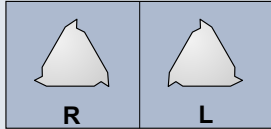
Parting and grooving

Threading

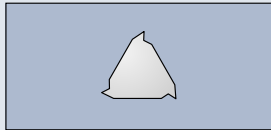
L 166 G - 3 B A 075

1 2 3 4 5 6 7

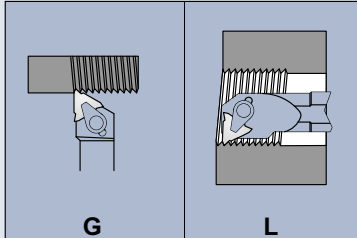
1



2



3



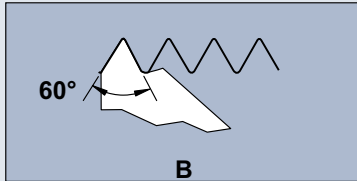
6

A	ISO mm.
C	SI
L	ISO Inch
K	Whitworth

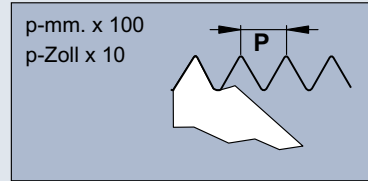
4

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

5



7



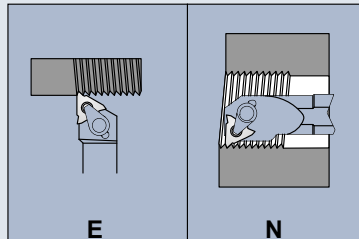
16 E L - AG 55

1 2 3 4 5

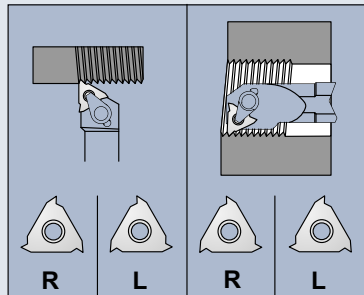
1

	IC=Polegada	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

2



3









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

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="text"/> 0°</p>	<p>EL-60°/55°</p>  <p>Triangular Negative Page H.04 <input type="text"/> 0°</p>	<p>ER-60°/55° TD</p>  <p>Triangular Negative Page H.04 <input type="text"/> 0°</p>	<p>NR-60°/55°</p>  <p>Triangular Negative Page H.05 <input type="text"/> 0°</p>	<p>NL-60°/55°</p>  <p>Triangular Negative Page H.05 <input type="text"/> 0°</p>	<p>NR-60°/55° TD</p>  <p>Triangular Negative Page H.05 <input type="text"/> 0°</p>	
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ISO (full form) BS36

<p>ER-ISO</p>  <p>Triangular Negative Page H.06 <input type="text"/> 0°</p>	<p>EL-ISO</p>  <p>Triangular Negative Page H.06 <input type="text"/> 0°</p>	<p>ER-ISO TD</p>  <p>Triangular Negative Page H.06 <input type="text"/> 0°</p>	<p>EL-ISO TD</p>  <p>Triangular Negative Page H.06 <input type="text"/> 0°</p>	<p>NR-ISO</p>  <p>Triangular Negative Page H.07 <input type="text"/> 0°</p>	<p>NL-ISO</p>  <p>Triangular Negative Page H.07 <input type="text"/> 0°</p>	<p>NR-ISO TD</p>  <p>Triangular Negative Page H.07 <input type="text"/> 0°</p>
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UNIFIED (full form) ASME / ANSI B1.1

<p>ER-UN</p>  <p>Triangular Negative Page H.08 <input type="text"/> 0°</p>	<p>NR-UN</p>  <p>Triangular Negative Page H.08 <input type="text"/> 0°</p>					
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WHITWORTH (full form) BS84

<p>ER-W</p>  <p>Triangular Negative Page H.08 <input type="text"/> 0°</p>	<p>EL-W</p>  <p>Triangular Negative Page H.08 <input type="text"/> 0°</p>	<p>ER-W TD</p>  <p>Triangular Negative Page H.08 <input type="text"/> 0°</p>	<p>NR-W</p>  <p>Triangular Negative Page H.09 <input type="text"/> 0°</p>	<p>NL-W</p>  <p>Triangular Negative Page H.09 <input type="text"/> 0°</p>	<p>NR-W TD</p>  <p>Triangular Negative Page H.09 <input type="text"/> 0°</p>	
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Lock ring groove inserts type LG

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

<p>TNMC</p>  <p>Triangular Negative Page H.10 <input type="text"/> 0°</p>	<p>TPMC</p>  <p>Triangular Negative Page H.10 <input type="text"/> 0°</p>	
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ISO

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

Drills

Cartridges

Brazed tools

Tooling

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

Normally available for immediate delivery ●

Only available in a limited quantity ○

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

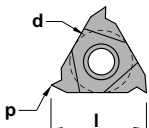
Threading



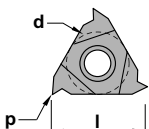
ER



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°			○	

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

Normally available for immediate delivery ●

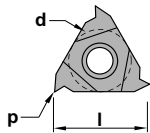
Only available in a limited quantity ○



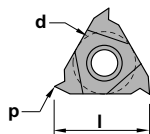
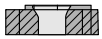
NR



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°			○	

Threading

Drills

Cartridges

Brazed tools

Tooling

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

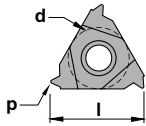
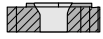
Threading



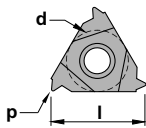
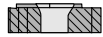
ER ISO



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 ●

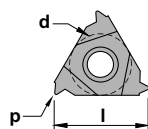
Only available in a limited quantity ○



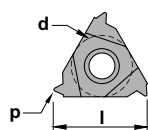
NR ISO



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			●	

Threading

Drills

Cartridges

Brazed tools

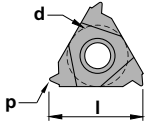
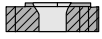
Tooling

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

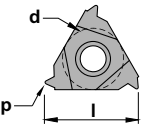
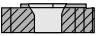
Normally available for immediate delivery ●
Only available in a limited quantity ○



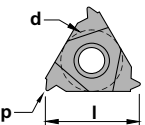
ER-W



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 lathe

Ceramic tools

Parting and grooving

Threading

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

Normally available for immediate delivery ●

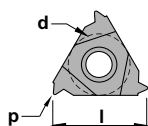
Only available in a limited quantity ○



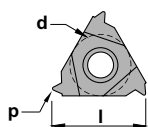
NR-W



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			○	

Threading



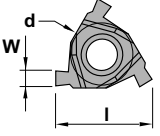
Drills


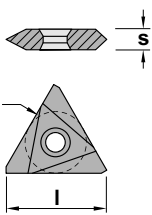
Cartridges


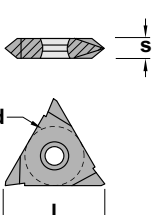
Brazed tools

Tooling

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

Grooving - External inserts		Normally available for immediate delivery ●						
Lock ring groove inserts type LG		Only available in a limited quantity ○						
 <p>ER-LG</p>	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				●
  <p>EL-LG</p>	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 ●						
TNMC		Only available in a limited quantity ○						
 		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 ●						
TPMC		Only available in a limited quantity ○						
 		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		○		

Threading
Drills
Cartridges
Brazed tools
Tooling

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

External threading

SXAN 90°



08 ER/L..
 11 ER/L..
 16 ER/L..
 22 ER/L..

Page H.13

STAN 90°



16 ER/L..
 22 ER/L..
 27 ER/L..

Page H.14

CTAN 90°



16 ER/L..
 22 ER/L..
 27 ER/L..

Page H.15

SXGN 90°



R/L 166G-3..
 R/L 166G-4..

Page H.16

STXN 90°



16 ER/L..
 22 ER/L..
 27 ER/L..

Page H.17

CTXN 90°



16 ER/L..
 22 ER/L..
 27 ER/L..

Page H.18

STCN 90°



TNMC 1603..
 TPMC 1603..
 TNMC 2204..
 TPMC 2204..

Page H.19

CXAP 90°



R/L 166-3..
 R/L 166-4..

Page H.20

Internal threading

SXFN 90°



11 NR/L..
 22 NR/L..

Page H.21

STXN 90°



16 NR/L..
 22 NR/L..
 27 NR/L..

Page H.23

CTXN 90°



16 NR/L..
 22 NR/L..
 27 NR/L..

Page H.24

STGN 90°



TNMC 1603..
 TNMC 2204..

Page H.25

STGP 90°



TPMC 1603..
 TPMC 2204..

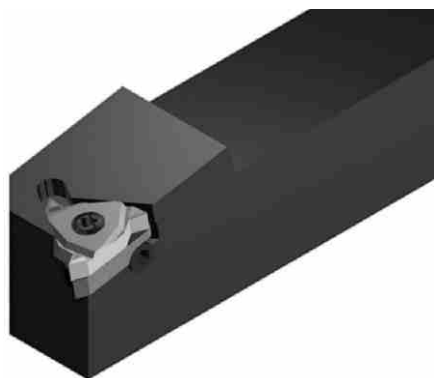
Page H.26

CXFP 90°



R/L 166-2..
 R/L 166-3..
 R/L 166-4..

Page H.27



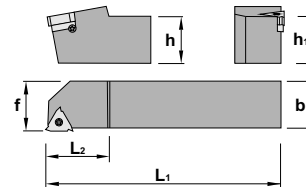
Characteristics:

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






Applications:

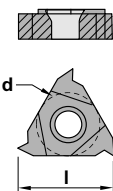


Multipurpose threading toolholders.

Metric screws



SXAN 90°		h=h1	b	L1	L2	f	Insert size	kg
Ref.	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

	E R/L		l	d	Negative triangular inserts for external threading For more information see page: H.04	
	Ref.	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				
						

Inserts

General turning

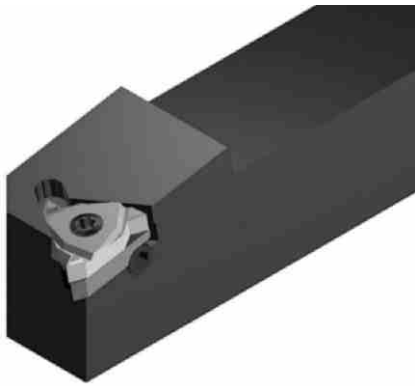
Aluminium wheel turning

Automatic lathe

Ceramic tools

Parting and grooving

Threading



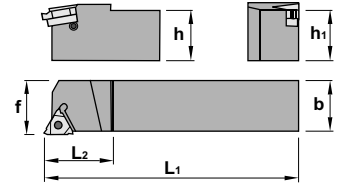
Characteristics:

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

Applications:

Multipurpose threading toolholders.

Whitworth screws



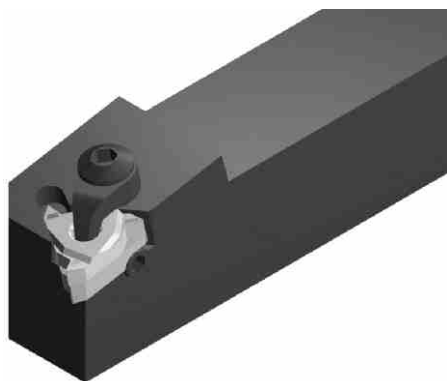
STAN 90°

Ref.		h=h1	b	L1	L2	f	Insert size	
STAN R/L 1616 H16	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	STAN R/L 1616 H16	SA3	5510	YE3	YI3	SY3
	STAN R/L 2020 K16	SA3	5510	YE3	YI3	SY3
	STAN R/L 2525 M16	SA3	5510	YE3	YI3	SY3
	STAN R/L 3232 P16	SA3	5510	YE3	YI3	SY3
	STAN R/L 2525 M22	SA4	5520	YE4	YI4	SY4
	STAN R/L 3232 P22	SA4	5520	YE4	YI4	SY4
	STAN R/L 4040 R22	SA4	5520	YE4	YI4	SY4
	STAN R/L 3232 P27	SA5	5525	YE5	YI5	SY5
	STAN R/L 4040 R27	SA5	5525	YE5	YI5	SY5
	STAN R/L 5050 S27	SA5	5525	YE5	YI5	SY5

	E R/L		l	d	Negative triangular inserts for external threading
	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			

For more information see page: H.04

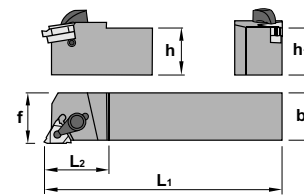


Characteristics:

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

Applications:

Multipurpose threading toolholders.



CTAN 90°		h=h1	b	L1	L2	f	Insert size	Kg
Ref.	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	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 2525 M27	25	25	151,6	35	32	27 ER/L..	0,700
	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	2516	5515	YE3	YI3	SY3	SA3
CTAN R/L 2525 M16	2516	5515	YE3	YI3	SY3	SA3
CTAN R/L 3232 P16	2516	5515	YE3	YI3	SY3	SA3
CTAN R/L 2525 M22	2522	5515	YE4	YI4	SY4	SA4
CTAN R/L 3232 P22	2522	5515	YE4	YI4	SY4	SA4
CTAN R/L 4040 R22	2522	5515	YE4	YI4	SY4	SA4
CTAN R/L 2525 M27	2527	5525	YE5	YI5	SY5	SA5
CTAN R/L 3232 P27	2527	5525	YE5	YI5	SY5	SA5
CTAN R/L 4040 R27	2527	5525	YE5	YI5	SY5	SA5
CTAN R/L 5050 S27	2527	5525	YE5	YI5	SY5	SA5

Optional

	E R/L		l	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

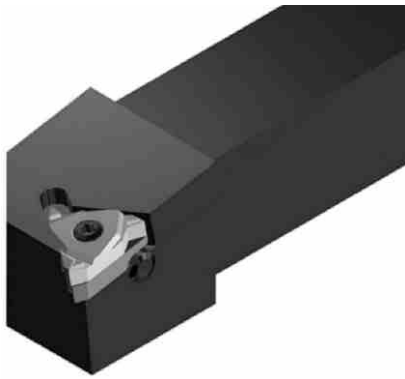
Aluminium wheel turning

Automatic lathe

Ceramic tools

Parting and grooving

Threading



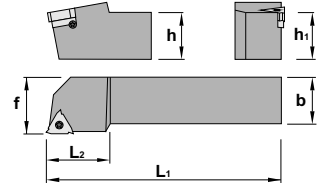
Characteristics:

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

Applications:

Multipurpose threading toolholders.

Metric screws



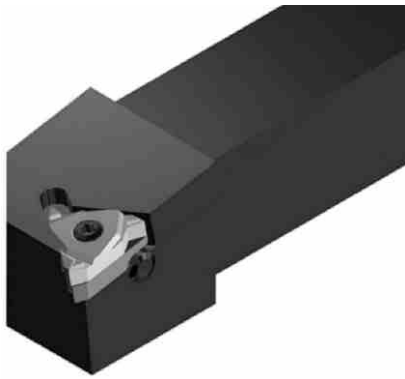
SXGN 90°

Ref.		h=h1	b	L1	L2	f	Insert size	
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.					
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

	E R/L		l	d	Negative triangular inserts for external threading
	Ref.	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



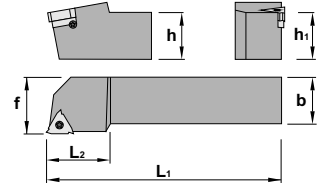
Characteristics:

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



Applications:

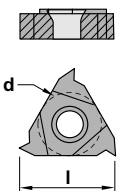


Multipurpose threading toolholders.

Whitworth screws



STXN 90°		h=h1	b	L1	L2	f	Insert size	Kg
Ref.	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.			 R	 L	
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	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	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...	16,00	9,52	
		22 ER/L...	22,00	12,70	
	27 ER/L...	27,50	15,88		
	ER/L	ER/L TD			
					

Inserts

General turning

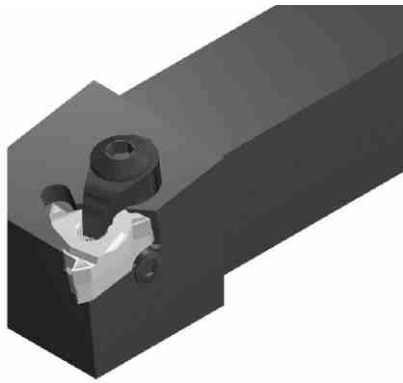
Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading

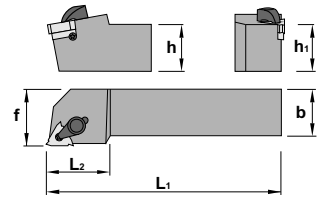


Characteristics:

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

Applications:

Multipurpose threading toolholders.



CTXN 90°

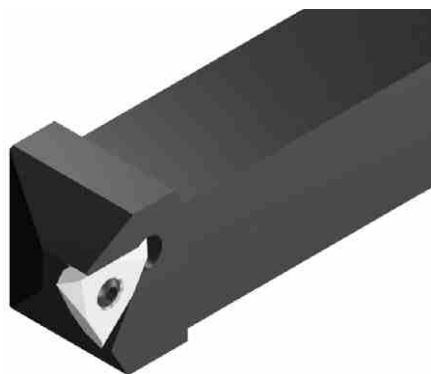
Ref.		h=h1	b	L1	L2	f	Insert size	
CTXN R/L 1212 F16		12	12	83,2	22,0	16	16 ER/L...	0,100
CTXN R/L 1616 H16		16	16	100,0	20,5	20	16 ER/L...	0,200
CTXN R/L 2020 K16		20	20	128,6	30,0	25	16 ER/L...	0,400
CTXN R/L 2525 M16		25	25	153,6	30,0	32	16 ER/L...	0,700
CTXN R/L 3232 P16		32	32	173,6	30,0	40	16 ER/L...	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.						
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

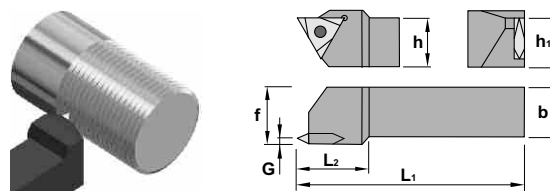
Optional

	E R/L		l	d	Negative triangular inserts for external threading
	Ref.	16 ER/L...	22 ER/L...	27 ER/L...	
	ER/L	ER/L TD			

For more information see page: H.04



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°		h=h1	b	L1	L2	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.	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

	TNMC/TPMC			Negative triangular inserts for threading				
	Ref.	T..MC 1603..	T..MC 2204..	T..MC 2704..	l	s	d	
			16,50	22,00	27,00	3,18	4,76	9,52
						4,76	15,88	
	TNMC	TPMC						

For more information see page: H.10

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading



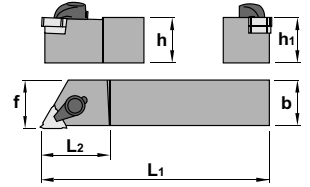
Characteristics:

Toolholder for flat positive inserts.

The insert is positioned a 0° cutting angle, and a 0° clearance angle.

Applications:

Threading toolholder.



CXAP 90°

Ref.		h=h1	b	L1	L2	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	CXAP R/L 2525 M22	25	25	150	34	26	R/L 166-4..	0,700
	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				Positive triangular inserts for threading
	Ref.	l	s	d	
	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



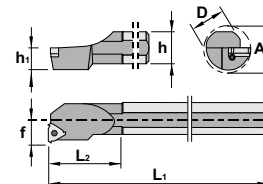
Characteristics:

Threading boring bar for negative lay down inserts.
The center screw ensures a good and clean clamping.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading boring bars.

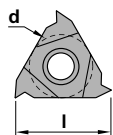
Metric screws



SXFN 90°		D	h	h1	L1	L2	f	A	Insert size	kg
Ref.	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	S16M SXFN R/L 11	S16M SXFN R/L 16	S20Q SXFN R/L 16	S25S SXFN R/L 16	S32T SXFN R/L 16	S40T SXFN R/L 16	S20Q SXFN R/L 22	S25S SXFN R/L 22	S32T SXFN R/L 22	S40T SXFN R/L 22
	1225	1225	1635	1334	1335	1335	1335	1640	1340	1340	1340
	5507	5507	5510	5515	5515	5515	5515	5515	5515	5515	5515
	-	-	-	3425	3425	3425	3425	-	3431	3431	3431
	-	-	-	3424	3424	3424	3424	-	3430	3430	3430
	-	-	-	1093	1093	1093	1093	-	1094	1094	1094

Ref.	N R/L		I	d	Negative triangular inserts for internal threading
	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

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Characteristics:
Boring bars with anti-vibration shank.

H-SXFN 90°

Ref.	D	h	h ₁	L ₁	L ₂	f	A	Insert size	
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°

Ref.	D	h	h ₁	L ₁	L ₂	f	A	Insert size	
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	

	N R/L		l	d	Negative triangular inserts for internal threading For more information see page: H.05
	Ref.	11 NR/L..	11,00	6,35	
	16 NR/L..	16,00	9,52		
	NR/L	NR/L TD			



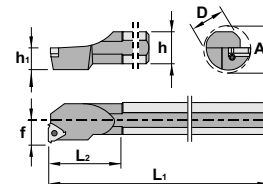
Characteristics:

Threading boring bar for negative lay down inserts.
The center screw ensures a good and clean clamping.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.



Applications:



Multipurpose threading boring bars.

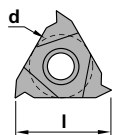
Whitworth screws



STXN 90°		D	h	h1	L1	L2	f	A	Insert size	kg
Ref.	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.						
Ref.	S16M STXN R/L 16	SN3	5510	-	-	-
	S20Q STXN R/L 16	SN3	5510	YI3	YE3	SY3
	S25R STXN R/L 16	SA3	5510	YI3	YE3	SY3
	S32S STXN R/L 16	SA3	5510	YI3	YE3	SY3
	S40T STXN R/L 16	SA3	5510	YI3	YE3	SY3
	S20Q STXN R/L 22	SN4	5520	-	-	-
	S25R STXN R/L 22	SA4	5520	YI4	YE4	SY4
	S32S STXN R/L 22	SA4	5520	YI4	YE4	SY4
	S40T STXN R/L 22	SA4	5520	YI4	YE4	SY4
	S32S STXN R/L 27	SA5	5525	YI5	YE5	SY5
	S40T STXN R/L 27	SA5	5525	YI5	YE5	SY5
	S50U STXN R/L 27	SA5	5525	YI5	YE5	SY5
S60V STXN R/L 27	SA5	5525	YI5	YE5	SY5	

Ref.	N R/L		l	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

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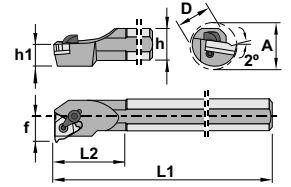


Characteristics:

Top clamp threading boring bar for negative lay down inserts.
The top clamp ensures a good and clean clamping.
The insert is positioned a -10° cutting angle, and a -1° clearance angle.

Applications:

Multipurpose threading boring bar.



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	29,0	27 NR/L..	1,500
	S40T CTXN R/L 27	40	37	18,5	300	60	26,4	36,0	27 NR/L..	2,850
	S50U CTXN R/L 27	50	47	23,5	350	75	31,4	45,0	27 NR/L..	5,200
	S60V CTXN R/L 27	60	58	29,0	400	75	36,4	54,0	27 NR/L..	8,550

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

Optional

	N R/L		l	d	Negative triangular inserts for internal threading
	Ref.	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



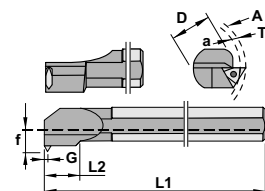
Characteristics:

Vertical on edge threading boring bar.

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	
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	
	TNMC				

For more information see page: H.10

Inserts

General turning

Aluminium wheel turning

Automatic lathes

Ceramic tools

Parting and grooving

Threading



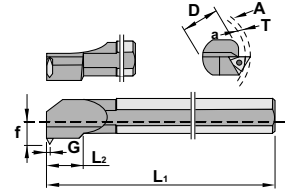
Characteristics:

Vertical on edge threading boring bar.

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	1935	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

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

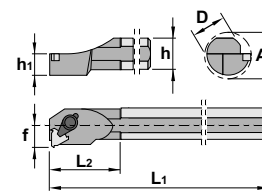



Characteristics:



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

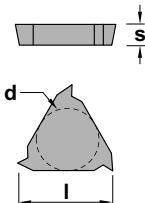

Applications:

Threading boring bar.



CXFP 90°		D	h	h1	L1	L2	f	A	Insert size	
Ref.	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	20	18	9,0	250	35	13	24	R/L 166-3..	0,550
	S25T CXFP R/L 16	25	23	11,5	300	40	17	31	R/L 166-3..	1,050
	S32U CXFP R/L 16	32	30	15,0	350	50	22	39	R/L 166-3..	2,050
	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	2107	5025
S20S CXFP R/L 11	2107	5025
S20S CXFP R/L 16	2109	5003
S25T CXFP R/L 16	2109	5003
S32U CXFP R/L 16	2209	5003
S40V CXFP R/L 22	2211	5004

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

Threading

Drills

Cartridges

Brazed tools

Tooling

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

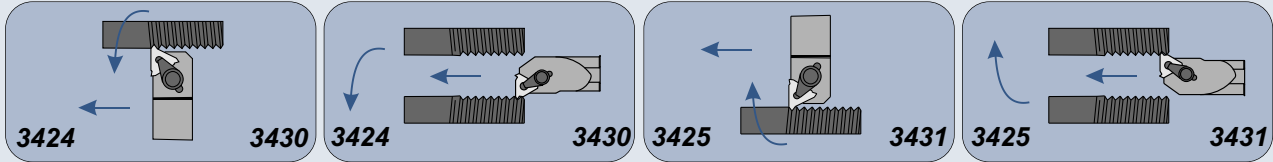
Problem	Cause and remedy
Pitch error (on CNC machines) <ul style="list-style-type: none"> ★ Starting too close to workpiece ★ Saddle speed towards chuck is excessive 	<ul style="list-style-type: none"> ☆ Start cycle further back from workpiece. ☆ Reduce speed by 10% until correct.
Thread torn on one 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 surface speed. ☆ Check centre 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. ☆ Reduce tool overhang. ☆ 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

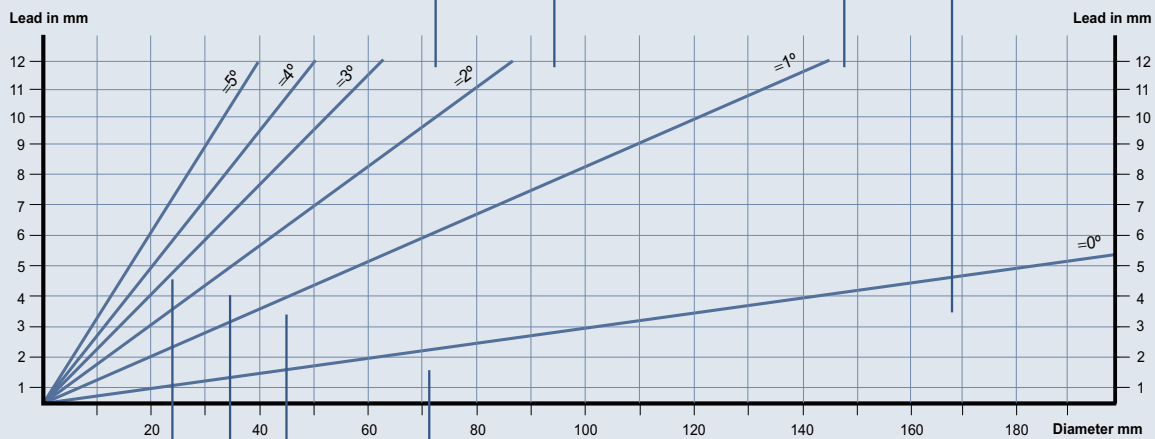
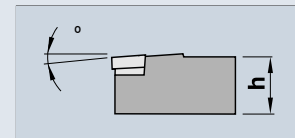
RH Thread - RH Tool

LH Thread - LH Tool



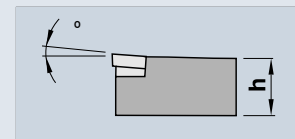
Anvil to give correct helix

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

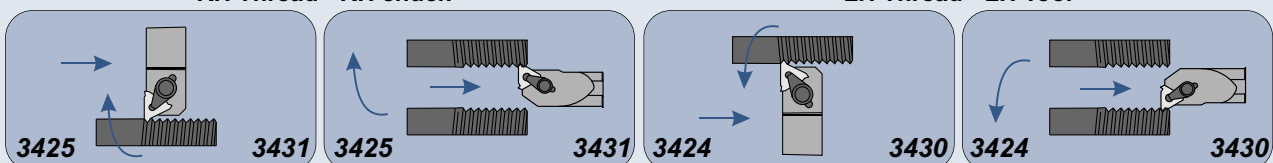
Medida da pastilha	-3°	-2°	-1°	0°
16R	3424-3	3424-2	3424-1	3424
16L	3425-3	3425-2	3425-1	3425
22R	3430-3	3430-2	3430-1	3430
22L	3431-3	3431-2	3431-1	3431



Feed direction away from the chuck

RH Thread - RH chuck

LH Thread - LH Tool



Threading

Drills

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General turning

Aluminium wheel turning

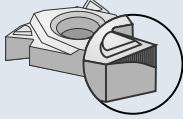
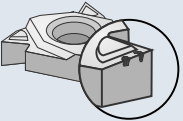
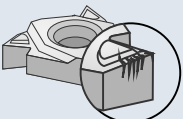
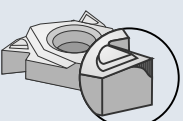
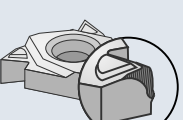

Automatic lathes

Ceramic tools

Parting and grooving

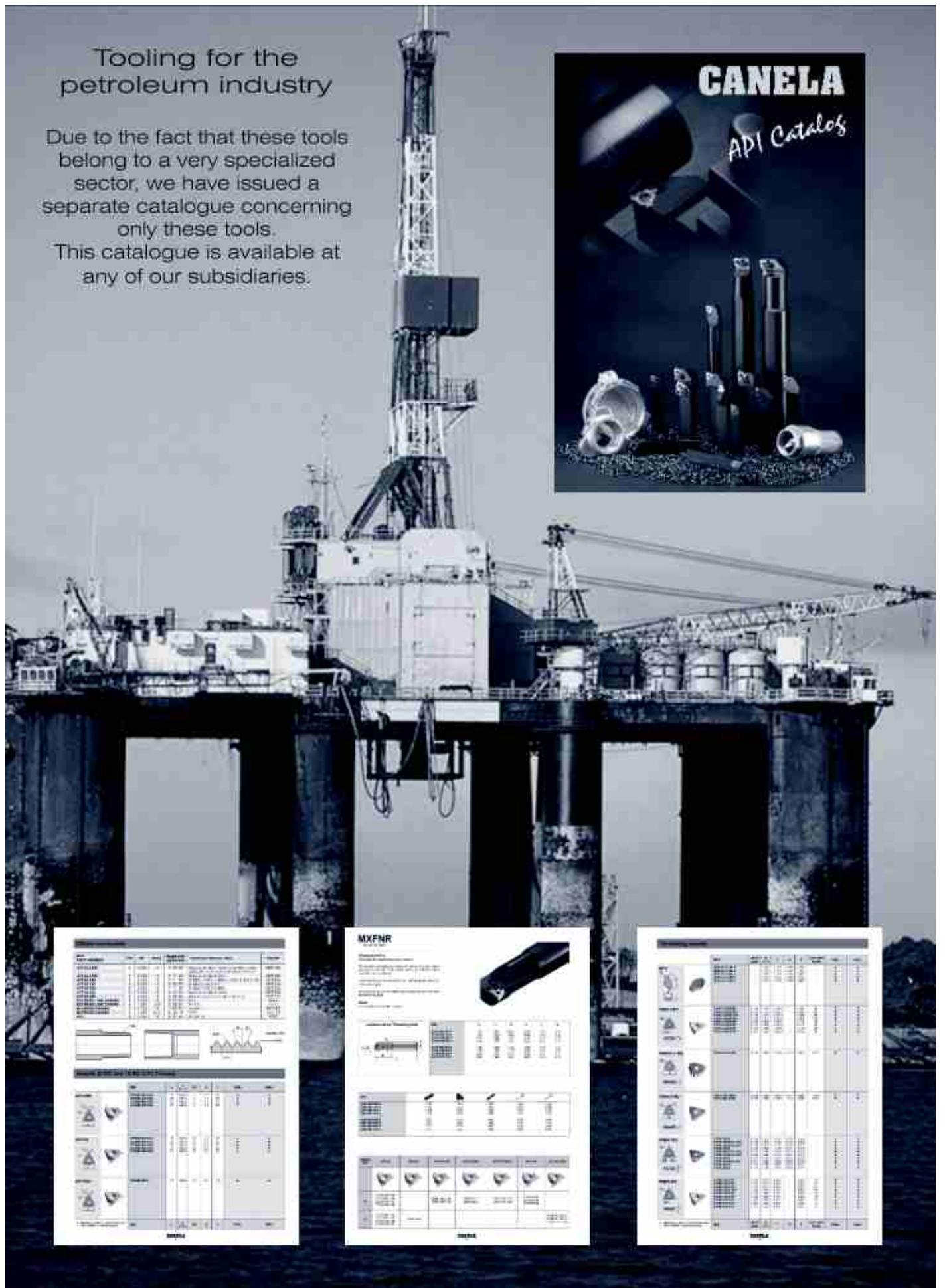
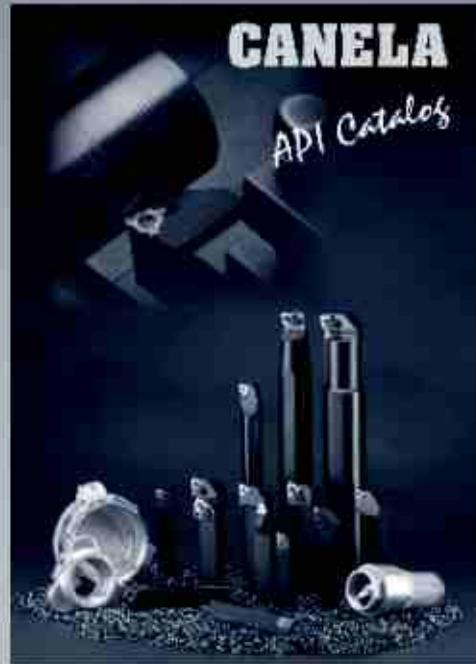
Threading

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.
	<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.
	<ul style="list-style-type: none"> ★ Incorrect tool setting. 	<ul style="list-style-type: none"> ☆ Correct tool setting.
	<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.
	<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.



This is a screenshot of a technical data table from the CANELA API Catalog. It contains multiple columns of data, likely representing different tool specifications, and includes a small line graph showing a performance curve.

This is a screenshot of a technical data table for the MXFNR tool. It includes a small image of the tool bit and a table with columns for various technical specifications and performance metrics.

This is another screenshot of a technical data table from the CANELA API Catalog, showing a grid of specifications for different tool models.

Threading

Drills

Cartridges

Brazed tools

Tooling