



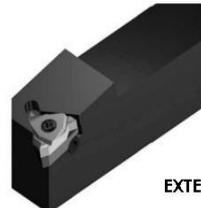
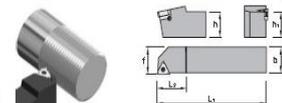
**ROSCAGEM EXTERIOR**



**Characteristics:**  
Threading toolholder for negative by down inserts.  
The screw clamping ensures a good stiffness and evacuation of chips.  
The insert is positioned at a 10° cutting angle, and a 1° clearance angle.  
**Applications:**  
Multipurpose threading toolholders.

Metric screws

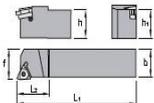
**EXTERIOR NEGATIVO**



**Characteristics:**  
Threading toolholder for negative by down inserts.  
The screw clamping ensures a good stiffness and evacuation of chips.  
The insert is positioned at a 10° cutting angle, and a 1° clearance angle.  
**Applications:**  
Multipurpose threading toolholders.

Whitworth screws

**EXTERIOR NEGATIVO**



**SXAN 90°**

Ref.	SXAN R/L 0808 M08	SXAN R/L 1010 M08	SXAN R/L 1212 M11	SXAN R/L 1616 M16	SXAN R/L 1616 M16	SXAN R/L 2020 K16	SXAN R/L 2525 M16	SXAN R/L 3232 P16	SXAN R/L 2525 M22	SXAN R/L 3232 P22
h=h1	8	10	12	16	16	20	25	32	25	32
b	8	10	12	16	16	20	25	32	25	32
L1	150	150	150	100	150	125	150	170	150	170
L2	20	20	20	22	22	28	28	28	34	34
f	8	10	12	16	16	20	25	32	25	32
Insert size	08 ER/L	08 ER/L	11 ER/L	16 ER/L	22 ER/L	22 ER/L				
A2	0,070	0,100	0,140	0,200	0,270	0,400	0,700	1,300	0,700	1,300

Ref.	SXAN R/L 0808 M08	SXAN R/L 1010 M08	SXAN R/L 1212 M11	SXAN R/L 1616 M16	SXAN R/L 1616 M16	SXAN R/L 2020 K16	SXAN R/L 2525 M16	SXAN R/L 3232 P16	SXAN R/L 2525 M22	SXAN R/L 3232 P22
h=h1	1225	1225	1225	1335	1335	1335	1335	1335	1340	1340
b	5507	5507	5507	5515	5515	5515	5515	5515	5515	5515
L1	-	-	-	3424	3424	3424	3424	3424	3430	3430
L2	-	-	-	3425	3425	3425	3425	3425	3431	3431
f	-	-	-	1083	1083	1083	1083	1083	1084	1084
Insert size	-	-	-	16 ER/L	22 ER/L	22 ER/L				
A2	-	-	-	0,200	0,270	0,400	0,700	1,300	0,700	1,300

Ref.	08 ER/L	11 ER/L	16 ER/L	22 ER/L
l	8,00	11,00	16,00	22,00
d	4,76	6,35	9,52	12,70

Negative triangular inserts for external threading

Ref.	16 ER/L	22 ER/L	27 ER/L
l	16,00	22,00	27,50
d	9,52	12,70	15,88

For more information see page: H.04

**STAN 90°**

Ref.	STAN R/L 1616 M16	STAN R/L 2020 K16	STAN R/L 2525 M16	STAN R/L 3232 P16	STAN R/L 2525 M22	STAN R/L 3232 P22	STAN R/L 4040 R22	STAN R/L 3232 P27	STAN R/L 4040 R27	STAN R/L 5050 S27
h=h1	16	20	25	32	25	32	40	32	40	50
b	16	20	25	32	25	32	40	32	40	50
L1	100	125	150	170	150	175	200	170	200	250
L2	20,5	30,0	30,0	30,0	36,0	36,0	36,0	40,0	40,0	40,0
f	16	20	25	32	25	32	40	32	40	50
Insert size	16 ER/L	16 ER/L	16 ER/L	16 ER/L	22 ER/L	22 ER/L	22 ER/L	27 ER/L	27 ER/L	27 ER/L
A2	0,200	0,400	0,700	1,300	0,700	1,300	3,000	1,300	3,000	5,800

Ref.	STAN R/L 1616 M16	STAN R/L 2020 K16	STAN R/L 2525 M16	STAN R/L 3232 P16	STAN R/L 2525 M22	STAN R/L 3232 P22	STAN R/L 4040 R22	STAN R/L 3232 P27	STAN R/L 4040 R27	STAN R/L 5050 S27
h=h1	SA3	SA3	SA3	SA3	SA4	SA4	SA4	SA5	SA5	SA5
b	5510	5510	5510	5510	5520	5520	5520	5525	5525	5525
L1	YE3	YE3	YE3	YE3	YE4	YE4	YE4	YE5	YE5	YE5
L2	Y13	Y13	Y13	Y13	Y14	Y14	Y14	Y15	Y15	Y15
f	SY3	SY3	SY3	SY3	SY4	SY4	SY4	SY5	SY5	SY5
Insert size	16 ER/L	16 ER/L	16 ER/L	16 ER/L	22 ER/L	22 ER/L	22 ER/L	27 ER/L	27 ER/L	27 ER/L
A2	0,200	0,400	0,700	1,300	0,700	1,300	3,000	1,300	3,000	5,800

Ref.	16 ER/L	22 ER/L	27 ER/L
l	16,00	22,00	27,50
d	9,52	12,70	15,88

Negative triangular inserts for external threading

Ref.	16 ER/L	22 ER/L	27 ER/L
l	16,00	22,00	27,50
d	9,52	12,70	15,88

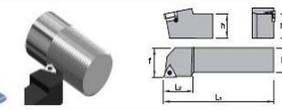
For more information see page: H.04



**Characteristics:**  
Threading toolholder for negative by down inserts.  
The screw clamping ensures a good stiffness and evacuation of chips.  
The insert is positioned at a 10° cutting angle, and a 1° clearance angle.  
**Applications:**  
Multipurpose threading toolholders.

Whitworth screws

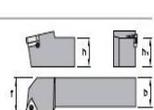
**EXTERIOR NEGATIVO**



**Characteristics:**  
Threading toolholder for negative by down inserts.  
The screw clamping ensures good stiffness and evacuation of chips.  
The insert is positioned at a 10° cutting angle, and a 1° clearance angle.  
**Applications:**  
Multipurpose threading toolholders.

Metric screws

**EXTERIOR NEGATIVO**



**STXN 90°**

Ref.	STXN R/L 1212 F16	STXN R/L 1616 M16	STXN R/L 2020 K16	STXN R/L 2525 M16	STXN R/L 3232 P16	STXN R/L 2525 M22	STXN R/L 3232 P22	STXN R/L 4040 R22	STXN R/L 2525 M27	STXN R/L 3232 P27	STXN R/L 4040 R27	STXN R/L 5050 S27
h=h1	12	16	20	25	32	25	32	40	25	32	40	50
b	12	16	20	25	32	25	32	40	25	32	40	50
L1	80	100	125	150	170	150	170	200	150	170	200	250
L2	22,0	20,5	30,0	30,0	30,0	36,0	36,0	36,0	35,0	40,0	40,0	40,0
f	16	20	25	32	32	25	32	40	32	40	50	60
Insert size	16 ER/L	22 ER/L	22 ER/L	22 ER/L	27 ER/L	27 ER/L	27 ER/L	27 ER/L				
A2	0,100	0,200	0,400	0,700	1,000	0,700	1,300	3,000	0,700	1,300	3,000	5,800

Ref.	STXN R/L 1212 F16	STXN R/L 1616 M16	STXN R/L 2020 K16	STXN R/L 2525 M16	STXN R/L 3232 P16	STXN R/L 2525 M22	STXN R/L 3232 P22	STXN R/L 4040 R22	STXN R/L 2525 M27	STXN R/L 3232 P27	STXN R/L 4040 R27	STXN R/L 5050 S27
h=h1	SA3	SA3	SA3	SA3	SA3	SA4	SA4	SA4	SA5	SA5	SA5	SA5
b	5510	5510	5510	5510	5510	5520	5520	5520	5525	5525	5525	5525
L1	YE3	YE3	YE3	YE3	YE3	YE4	YE4	YE4	YE5	YE5	YE5	YE5
L2	Y13	Y13	Y13	Y13	Y13	Y14	Y14	Y14	Y15	Y15	Y15	Y15
f	SY3	SY3	SY3	SY3	SY3	SY4	SY4	SY4	SY5	SY5	SY5	SY5
Insert size	16 ER/L	22 ER/L	22 ER/L	22 ER/L	27 ER/L	27 ER/L	27 ER/L	27 ER/L				
A2	0,100	0,200	0,400	0,700	1,000	0,700	1,300	3,000	0,700	1,300	3,000	5,800

Ref.	16 ER/L	22 ER/L	27 ER/L
l	16,00	22,00	27,50
d	9,52	12,70	15,88

Negative triangular inserts for external threading

Ref.	16 ER/L	22 ER/L	27 ER/L
l	16,00	22,00	27,50
d	9,52	12,70	15,88

For more information see page: H.04

**SXGN 90°**

Ref.	SXGN R/L 1212 F16	SXGN R/L 1616 M16	SXGN R/L 2020 K16	SXGN R/L 2525 M16	SXGN R/L 3232 P16	SXGN R/L 2525 M22	SXGN R/L 3232 P22
h=h1	12	16	20	25	32	25	32
b	12	16	20	25	32	25	32
L1	80	100	125	150	170	150	170
L2	22	20,5	30,0	30,0	30,0	36,0	36,0
f	16	20	25	32	32	25	32
Insert size	16 ER/L	22 ER/L	22 ER/L				
A2	0,100	0,200	0,400	0,700	1,000	0,700	1,000

Ref.	SXGN R/L 1212 F16	SXGN R/L 1616 M16	SXGN R/L 2020 K16	SXGN R/L 2525 M16	SXGN R/L 3232 P16	SXGN R/L 2525 M22	SXGN R/L 3232 P22
h=h1	1335	1335	1335	1335	1335	1340	1340
b	5515	5515	5515	5515	5515	5515	5515
L1	3424	3424	3424	3424	3424	3430	3430
L2	3425	3425	3425	3425	3425	3431	3431
f	1083	1083	1083	1083	1083	1084	1084
Insert size	16 ER/L	22 ER/L	22 ER/L				
A2	0,100	0,200	0,400	0,700	1,000	0,700	1,000

Ref.	16 ER/L	22 ER/L
l	16,00	22,00
d	9,52	12,70

Negative triangular inserts for external threading

Ref.	16 ER/L	22 ER/L
l	16,00	22,00
d	9,52	12,70

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°

Ref.	STCN R/L 1212 F16	h=h1	b	L1	L2	f	G	Insert size	A
	STCN R/L 1212 F16	12	12	80	23	16	1,59	TNMG/TPMC 1603	0,100
	STCN R/L 1616 H16	16	16	100	23	18	1,59	TNMG/TPMC 1603	0,200
	STCN R/L 2020 K16	20	20	125	23	22	1,59	TNMG/TPMC 1603	0,400
	STCN R/L 2525 M16	25	25	150	23	32	1,59	TNMG/TPMC 1603	0,700
	STCN R/L 3232 P16	32	32	170	23	38	1,59	TNMG/TPMC 1603	1,050
	STCN R/L 2020 K22	20	20	125	32	22	2,38	TNMG/TPMC 2204	0,400
	STCN R/L 2525 M22	25	25	150	32	32	2,38	TNMG/TPMC 2204	0,700
	STCN R/L 3225 P22	32	25	170	32	32	2,38	TNMG/TPMC 2204	1,025
	STCN R/L 3232 P22	32	32	170	32	38	2,38	TNMG/TPMC 2204	1,050
	STCN R/L 2525 M27	25	25	150	32	32	2,38	TNMG/TPMC 2704	0,700
	STCN R/L 3232 P27	32	32	170	32	38	2,38	TNMG/TPMC 2704	1,050

Ref.	STCN R/L 1212 F16	1835	2101	1815	5003	5002
	STCN R/L 1616 H16	1835	2101	1815	5003	5002
	STCN R/L 2020 K16	1835	2101	1815	5003	5002
	STCN R/L 2525 M16	1835	2101	1815	5003	5002
	STCN R/L 3232 P16	1835	2101	1815	5003	5002
	STCN R/L 2020 K22	1850	2101	1815	5003	5025
	STCN R/L 2525 M22	1850	2101	1815	5003	5025
	STCN R/L 3225 P22	1850	2101	1815	5003	5025
	STCN R/L 3232 P22	1850	2101	1815	5003	5025
	STCN R/L 2525 M27	1855	2101	1815	5003	5003
	STCN R/L 3232 P27	1855	2101	1815	5003	5003

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



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

### EXTERIOR POSITIVO

### CXAP 90°

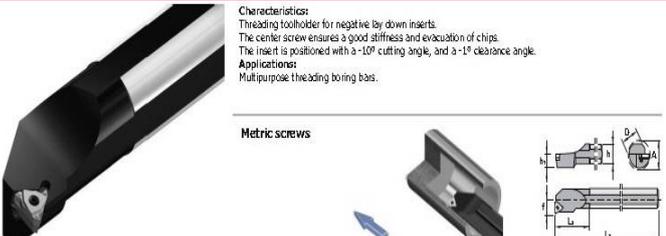
Ref.	CXAP R/L 2016 K16	h=h1	b	L1	L2	f	Insert size	A
	CXAP R/L 2016 K16	20	16	125	22	17	R/L 166-3	0,300
	CXAP R/L 2020 K16	20	20	125	28	21	R/L 166-3	0,400
	CXAP R/L 2525 M16	25	25	150	28	26	R/L 166-3	0,700
	CXAP R/L 3225 P16	32	25	170	28	26	R/L 166-3	1,050
	CXAP R/L 3232 P16	32	32	170	28	33	R/L 166-3	1,300
	CXAP R/L 2525 M22	25	25	150	34	26	R/L 166-4	0,700
	CXAP R/L 3225 P22	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	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	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	
	R/L 166				For more information see page: H.11

## ROSCAGEM INTERIOR



**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.

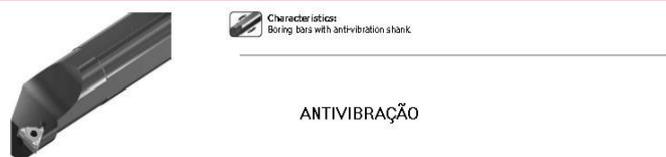
### Metric screws

### SXFN 90°

Ref.	S10K SXFN R/L 11	D	h	h1	L1	L2	f	A	Insert size	A
	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	28	16 NR/L	0,900
	S32T SXFN R/L 16	32	30	15,0	300	40	19,6	35	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	38	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 <td>5507</td> <td>-</td> <td>-</td> <td>-</td>	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		l	d	Negative triangular inserts for internal threading
Ref.	11 NR/L	11,00	6,35	
	16 NR/L	16,00	9,52	
	22 NR/L	22,00	12,70	
	NR/L			For more information see page: H.05
	NR/L TD			

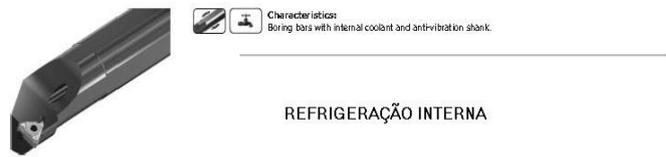


**Characteristics:**  
Boring bars with antivibration shank.

### ANTIVIBRAÇÃO

### H-SXFN 90°

Ref.	H10K SXFN R/L 11	D	h	h1	L1	L2	f	A	Insert size	A
	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
	H10K SXFN R/L 11									5507
	H16M SXFN R/L 11									5507
	H16M SXFN R/L 16									5510



**Characteristics:**  
Boring bars with internal coolant and antivibration shank.

### REFRIGERAÇÃO INTERNA

### J-SXFN 90°

Ref.	J10K SXFN R/L 11	D	h	h1	L1	L2	f	A	Insert size	A
	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
	J10K SXFN R/L 11									5507
	J16M SXFN R/L 11									5507
	J16M SXFN R/L 16									5510

N R/L		l	d	Negative triangular inserts for internal threading
Ref.	11 NR/L	11,00	6,35	
	16 NR/L	16,00	9,52	
	22 NR/L	22,00	12,70	
	NR/L			For more information see page: H.05
	NR/L TD			

