





**Characteristics:**

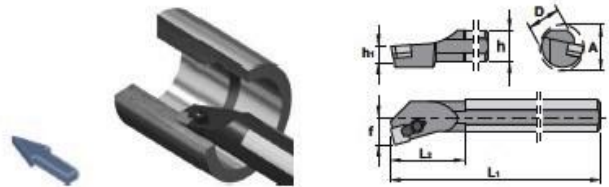
Boring bar for internal turning applications equipped with square positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

**Applications:**

Internal turning boring bar for all kind of materials. The workpiece should be stable.







For interrupted cut choose boring bars Ref. PSKN (Page: C.25).

**Axial:** 6.5°  
**Radial:** -1.25°

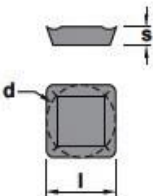




## CSKP 75°

Ref.		D	h	h <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	f	A	Insert size	kg
S16R CSKP R/L 09	S16R CSKP R/L 09	16	15	7,5	200	30	11	20	SP.. 0903..	0,300
	S20S CSKP R/L 09	20	18	9,0	250	35	13	24	SP.. 0903..	0,550
S25T CSKP R/L 12	S25T CSKP R/L 12	25	23	11,5	300	40	17	31	SP.. 1203..	1,050
S32U CSKP R/L 12	S32U CSKP R/L 12	32	30	15,0	350	50	22	39	SP.. 1203..	2,050
S40V CSKP R/L 12	S40V CSKP R/L 12	40	37	18,5	400	60	27	48	SP.. 1203..	3,650
S50W CSKP R/L 12	S50W CSKP R/L 12	50	47	23,5	450	65	35	61	SP.. 1203..	6,450
S50W CSKP R/L 19	S50W CSKP R/L 19	50	47	23,5	450	65	35	61	SP.. 1904..	6,400

Ref.							
S16R CSKP R/L 09	S16R CSKP R/L 09	2107	5025	-	-	-	9009
	S20S CSKP R/L 09	2107	5025	-	-	-	9012-9112
S25T CSKP R/L 12	S25T CSKP R/L 12	2109	5003	-	-	2309	9012-9112
S32U CSKP R/L 12	S32U CSKP R/L 12	2209	5003	3112	4002	2309	9012-9112
S40V CSKP R/L 12	S40V CSKP R/L 12	2209	5003	3112	4002	2409	9012-9112
S50W CSKP R/L 12	S50W CSKP R/L 12	2209	5003	3112	4002	2409	9012-9112
S50W CSKP R/L 19	S50W CSKP R/L 19	2211	5004	3119	4012	2411	9019-9119

Supplementary accessories

	SP..				Positive 11° clearance - Square inserts.
	Ref.	l	s	d	
	SP.. 0903..	9,52	3,18	9,52	
SP.. 1203..	12,70	3,18	12,70		
SP.. 1904..	19,05	4,76	19,05		
SPMR-33	SPUN				
					

For more information see page: A.28



**Characteristics:**

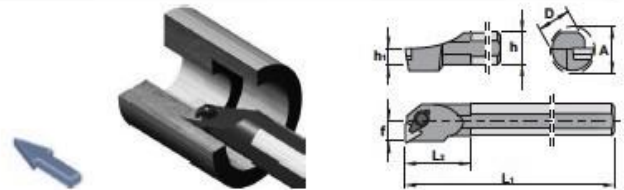
Boring bar for internal turning applications equipped with triangular positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

**Applications:**

Internal turning boring bar for all kind of materials. The workpiece should be stable.

For interrupted cut choose boring bars Ref. MTFN (Page: C.15) or PTRN (Page: C.27).

**Axial:** +6°  
**Radial:** 0°



## CTFP 90°

Ref.		D	h	h1	L1	L2	f	A	Insert size	KG
S10M CTFP R/L 09	S10M CTFP R/L 09	10	9	4,5	150	25	7	13	TP.. 0902..	0,060
	S12M CTFP R/L 09	12	11	5,5	150	25	9	16	TP.. 0902..	0,150
S12M CTFP R/L 11	S12M CTFP R/L 11	12	11	5,5	150	25	9	16	TP.. 1103..	0,150
S16R CTFP R/L 11	S16R CTFP R/L 11	16	15	7,5	200	30	11	20	TP.. 1103..	0,300
S20S CTFP R/L 11	S20S CTFP R/L 11	20	18	9,0	250	35	13	24	TP.. 1103..	0,550
S16R CTFP R/L 16	S16R CTFP R/L 16	16	15	7,5	200	30	11	20	TP.. 1603..	0,300
S20S CTFP R/L 16	S20S CTFP R/L 16	20	18	9,0	250	35	13	24	TP.. 1603..	0,550
S25T CTFP R/L 16	S25T CTFP R/L 16	25	23	11,5	300	40	17	31	TP.. 1603..	0,700
S32U CTFP R/L 16	S32U CTFP R/L 16	32	30	15,0	350	50	22	39	TP.. 1603..	2,050
S40V CTFP R/L 16	S40V CTFP R/L 16	40	37	18,5	400	60	27	48	TP.. 1603..	3,750
S50W CTFP R/L 16	S50W CTFP R/L 16	50	47	23,5	450	65	35	61	TP.. 1603..	6,500
S40V CTFP R/L 22	S40V CTFP R/L 22	40	37	18,5	400	60	27	48	TP.. 2204..	3,750
S50W CTFP R/L 22	S50W CTFP R/L 22	50	47	23,5	450	65	35	61	TP.. 2204..	6,500

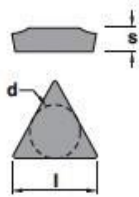
Ref.							
S10M CTFP R/L 09	S10M CTFP R/L 09	2000	5015	-	-	-	-
	S12M CTFP R/L 09	2000	5015	-	-	-	-
S12M CTFP R/L 11	S12M CTFP R/L 11	2304	5025	-	-	-	-
S16R CTFP R/L 11	S16R CTFP R/L 11	2107	5025	-	-	2307	9011-9111
S20S CTFP R/L 11	S20S CTFP R/L 11	2107	5025	-	-	2307	9011-9111
S16R CTFP R/L 16	S16R CTFP R/L 16	2119	5003	-	-	2309	9016-9116
S20S CTFP R/L 16	S20S CTFP R/L 16	2119	5003	-	-	2309	9016-9116
S25T CTFP R/L 16	S25T CTFP R/L 16	2109	5003	-	-	2309	9016-9116
S32U CTFP R/L 16	S32U CTFP R/L 16	2209	5003	3116	4002	2309	9016-9116
S40V CTFP R/L 16	S40V CTFP R/L 16	2209	5003	3116	4002	2409	9016-9116
S50W CTFP R/L 16	S50W CTFP R/L 16	2209	5003	3116	4002	2409	9016-9116
S40V CTFP R/L 22	S40V CTFP R/L 22	2211	5004	3122	4012	2411	9022-9122
S50W CTFP R/L 22	S50W CTFP R/L 22	2211	5004	3122	4012	2411	9022-9122

*Supplementary accessories*

Ref.	TP..	l	s	d	Positive 11° clearance - Triangular inserts
	TP.. 0902..	9,62	2,38	5,55	
TP.. 1103..	11,00	3,18	6,35		
TP.. 1603..	16,50	3,18	9,52		
TP.. 2204..	22,00	4,76	12,70		

For more information see page: A.31

TPMN	TPMR-33	TPUN	TPUX-R	TPUX-L





**Characteristics:**

Boring bar for internal turning applications equipped with triangular positive inserts and strong cutting edges. The top clamp ensures good rigidity and stability.

**Applications:**

Internal turning boring bar for all kind of materials. The workpiece should be stable.

For interrupted cut choose boring bars Ref. MTUN (Page: C.17).

**Axial:** 0°  
**Radial:** -6°



## CTUP 93°

Ref.		D	h	h <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	f	A	Insert size	$K_{\alpha}$
S10M CTUP R/L 09	S10M CTUP R/L 09	10	9	4,5	150	25	7	13	TP.. 0902..	0,060
	S12M CTUP R/L 09	12	11	5,5	150	25	9	16	TP.. 0902..	0,150
S12M CTUP R/L 11	S12M CTUP R/L 11	12	11	5,5	150	25	9	16	TP.. 1103..	0,150
S16R CTUP R/L 11	S16R CTUP R/L 11	16	15	7,5	200	30	11	20	TP.. 1103..	0,300
S20S CTUP R/L 11	S20S CTUP R/L 11	20	18	9,0	250	35	13	24	TP.. 1103..	0,550
S16R CTUP R/L 16	S16R CTUP R/L 16	16	15	7,5	200	30	11	20	TP.. 1603..	0,300
S20S CTUP R/L 16	S20S CTUP R/L 16	20	18	9,0	250	35	13	24	TP.. 1603..	0,550
S25T CTUP R/L 16	S25T CTUP R/L 16	25	23	11,5	300	40	17	31	TP.. 1603..	0,700
S32U CTUP R/L 16	S32U CTUP R/L 16	32	30	15,0	350	50	22	39	TP.. 1603..	2,050
S40V CTUP R/L 16	S40V CTUP R/L 16	40	37	18,5	400	60	27	48	TP.. 1603..	3,750
S50W CTUP R/L 16	S50W CTUP R/L 16	50	47	23,5	450	65	35	61	TP.. 1603..	6,500
S40V CTUP R/L 22	S40V CTUP R/L 22	40	37	18,5	400	60	27	48	TP.. 2204..	3,750
S50W CTUP R/L 22	S50W CTUP R/L 22	50	47	23,5	450	65	35	61	TP.. 2204..	6,500

Ref.							
S10M CTUP R/L 09	S10M CTUP R/L 09	2000	5015	-	-	-	-
	S12M CTUP R/L 09	2000	5015	-	-	-	-
S12M CTUP R/L 11	S12M CTUP R/L 11	2304	5025	-	-	-	-
S16R CTUP R/L 11	S16R CTUP R/L 11	2107	5025	-	-	2307	9011-9111
S20S CTUP R/L 11	S20S CTUP R/L 11	2107	5025	-	-	2307	9011-9111
S16R CTUP R/L 16	S16R CTUP R/L 16	2119	5003	-	-	2309	9016-9116
S20S CTUP R/L 16	S20S CTUP R/L 16	2119	5003	-	-	2309	9016-9116
S25T CTUP R/L 16	S25T CTUP R/L 16	2109	5003	-	-	2309	9016-9116
S32U CTUP R/L 16	S32U CTUP R/L 16	2209	5003	3116	4002	2309	9016-9116
S40V CTUP R/L 16	S40V CTUP R/L 16	2209	5003	3116	4002	2409	9016-9116
S50W CTUP R/L 16	S50W CTUP R/L 16	2209	5003	3116	4002	2409	9016-9116
S40V CTUP R/L 22	S40V CTUP R/L 22	2211	5004	3122	4012	2411	9022-9122
S50W CTUP R/L 22	S50W CTUP R/L 22	2211	5004	3122	4012	2411	9022-9122

*Supplementary accessories*