Takım tutucu yenilikleri

PSC, ISO ve hidrolik bağlama çözümleri

ZCC Cutting Tools Europe resmî yenilik yayınlarından operasyona göre seçilmiş teknik sayfalar.

Dönemler en yeniden eskiye sıralanmıştır. Üreticinin ölçü tabloları, ürün kodları ve teknik çizimleri özgün biçimleriyle korunmuştur.

Bu belge Toksan tarafından hazırlanmış bir derlemedir; üreticinin tek bir döneme ait resmî ana kataloğu değildir. Eski yayınlar güncel stok veya ürünün devam ettiğine ilişkin taahhüt sayılmaz.

NASIL KULLANILIR?

Sonraki sayfadan dönemi seçin. PDF yer imleriyle bölümler arasında geçiş yapabilirsiniz. Teknik içerik İngilizcedir.

İhtiyacınız olan döneme geçin

Sayfa numaraları bu derlemeye aittir. “Kaynak yayın” bağlantısı üreticinin özgün PDF dosyasını açar.

Eylül 2026 3 - 13

zTurn Poly PSC takım tutucular
Kaynak yayın □ | Özgün PDF sayfaları: 64-74

Eylül 2025 / 2026 güncellemesi 14 - 22

İçten soğutmalı ISO tornalama tutucuları
Kaynak yayın □ | Özgün PDF sayfaları: 10-11, 17-23

Eylül 2024 23 - 33

zClamp Hydro hidrolik genleşmeli tutucular
Kaynak yayın □ | Özgün PDF sayfaları: 32-42

Teknik seçim, tutucu uyumu ve güncel bulunabilirlik için Toksan ile görüşün. Üretici telif ve iletişim sayfaları derlemenin sonundadır.

PSC	50	P	C	L	N	L	22	045	12	IC
1	2	3	4	5	6	7	8	9	10	11

Interface

Code	Description
PSC	Polygonal shank DIN ISO26623-1

1

Interface size d_1 [mm]

Code	Description
32	32
40	40
50	50
63	63

2

Clamping system

Code	Description
P	Knee lever clamping
S	Screw clamping

3

Insert shape

C D (55°) R S T V (35°) W (80°)

4

Tool holder type and entering angle

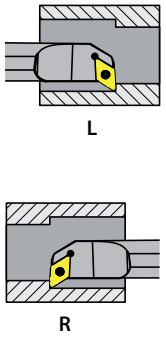
A (90°) B (75°) C (90°) D (45°) E (60°)
F (90°) G (90°) H (107°30′) J (93°) K (75°)
L (95°, 95°) M (50°) N (63°) O (117°30′) P (62°30′)
Q (107°30′) R (75°) S (45°) T (60°) U (90°)
V (72°30′) W (60°) X (120°)

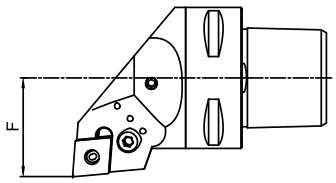
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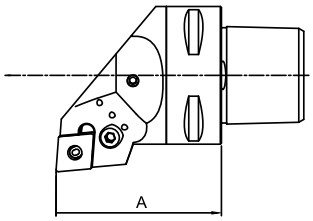
Clearance angle

B (5°) C (7°) D (15°) E (20°) N (0°) P (11°)

6

Cutting direction

7

Dimension F

8

Dimension A

9

Cutting edge length l [mm]							
I.C [mm]	Insert shape						
	C	D	R	S	T	V	W
5,56					**09**		
6,35	**06**	**07**			**11**		
9,525	**09**	**11**	**09**	**09**	**16**	**16**	**06**
12,7	**12**	**15**	**12**	**12**	**22**	**22**	**08**
15,875	**16**	**19**	**15**	**15**	**27**		
19,05	**19**		**19**	**19**	**33**		
25,4	**25**		**25**	**25**	**44**		
32			**32**				

10

High-pressure cooling
11

ZTURN POLY

PSC tool holders for great precision and stability

YOUR BENEFITS

– The form-fit, self-centring polygonal shank absorbs high bending moments and **minimises vibrations** thanks to its rigidity
– Enables **quick tool changes with maximum repeatability**
– Minimised downtime whilst increasing machine utilisation thanks to faster set-up times
– **Versatile use** on CNC lathes and multi-tasking turning/milling centres
– Efficient high-pressure cooling for **lower temperatures** during machining



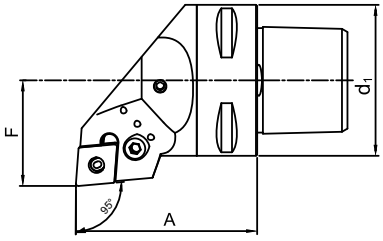
Fig.: PSC63.PCLNL.45065.12IC

CN** holder (external) P clamping

PCLN/L Kr: 95°



Right hand type



Article	✲	Stock		Dimensions [mm]			Insert
		R	L	d_1	F	A	
PSC32.PCLNL.22045.12IC	✲	○	●	32	22	45	CN**1204**
PSC40.PCLNL.27050.12IC	✲	○	●	40	27	50	CN**1204**
PSC50.PCLNL.35060.12IC	✲	○	●	50	35	60	CN**1204**
PSC63.PCLNL.45065.12IC	✲	○	●	63	45	65	CN**1204**

● Ex stock ○ On demand

✲ With internal cooling

Spare parts

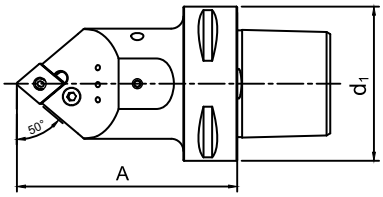
	Insert	CN**1204**
	Knee lever	L4
	Screw	LEM8x21 (10.2 Nm)
	Shim	C12AP
	Shim pin (shim)	SP4
	Wrench	WH30L

CN** holder (external) P clamping

PCMNN Kr: 50°



Neutral version



Article	✻	Stock	Dimensions [mm]		Insert
		N	d_1	A	
PSC63.PCMNN.00090.12IC	✻	●	63	90	CN**1204**

● Ex stock ○ On demand

✻ With internal cooling

Spare parts

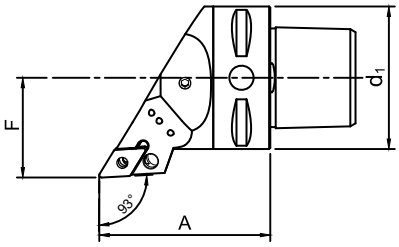
	Insert	CN**1204**
	Knee lever	L4
	Screw	LEM8x21 (10.2 Nm)
	Shim	C12AP
	Shim pin	SP4
	Wrench	WH30L

DN** holder (external) P clamping

PDJNR/L Kr: 93°



Right hand type



Article	✲	Stock R	Stock L	Dimensions [mm] d_1	F	A	Insert
PSC40.PDJNR.27050.11IC	✲	●		40	27	50	DN**1104**
PSC50.PDJNL.35060.11IC	✲		●	50	35	60	DN**1104**
PSC50.PDJNR.35060.11IC	✲	●		50	35	60	DN**1104**

● Ex stock ○ On demand

✲ With internal cooling

Spare parts

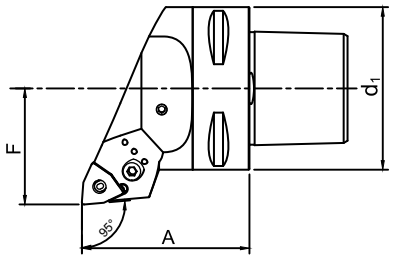
	Insert	**DN**1104****
	Knee lever	L3
	Screw	LEM6x13.4A (7 Nm)
	Shim	D11AP
	Shim pin	SP3
	Wrench	WH25L

WN** holder (external) P clamping

PWLNR/L Kr: 95°



Right hand type



Article	✲	Stock R	Stock L	Dimensions [mm] d_1	Dimensions [mm] F	Dimensions [mm] A	Insert
PSC63.PWLNL.45065.08IC	✲		●	63	45	65	WN**0804**
PSC63.PWLNR.45065.08IC	✲	●		63	45	65	WN**0804**

● Ex stock ○ On demand

✲ With internal cooling

Spare parts

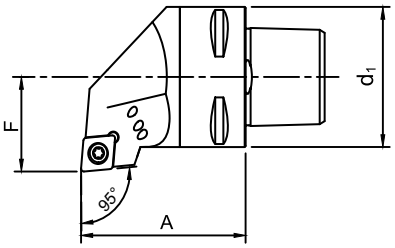
	Insert	WN**0804**
	Knee lever	L4
	Screw	LEM8x21 (10.2 Nm)
	Shim	W08AP
	Shim pin	SP4
	Wrench	WH30L

CC** holder (external) S clamping

SCLCR/L Kr: 95°



Right hand type



Article	✻	Stock R	Stock L	Dimensions [mm] d_1	F	A	Insert
PSC32.SCLCL.22045.09IC	✻		●	32	22	45	CC**09T3**
PSC32.SCLCR.22045.09IC	✻	●		32	22	45	CC**09T3**
PSC40.SCLCL.27050.09IC	✻		●	40	27	50	CC**09T3**
PSC40.SCLCR.27050.09IC	✻	●		40	27	50	CC**09T3**

● Ex stock ○ On demand

✻ With internal cooling

Spare parts

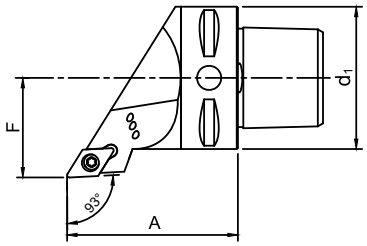
	Insert	CC**09T3**
	Screw	I60M3.5x8 (2.7Nm)
	Wrench	WT15IP

DC** holder (external) P clamping

SDJCR/L Kr: 93°



Right hand type



	✲	Stock R	Stock L	Dimensions [mm] d_1	F	A	Insert
PSC40.SDJCR.27050.11IC	✲	●		40	27	50	DC**11T3**
PSC50.SDJCL.35060.11IC	✲		●	50	35	60	DC**11T3**
PSC50.SDJCR.35060.11IC	✲	●		50	35	60	DC**11T3**
PSC63.SDJCL.45065.11IC	✲		●	63	45	65	DC**11T3**
PSC63.SDJCR.45065.11IC	✲	●		63	45	65	DC**11T3**

● Ex stock ○ On demand

✲ With internal cooling

Spare parts

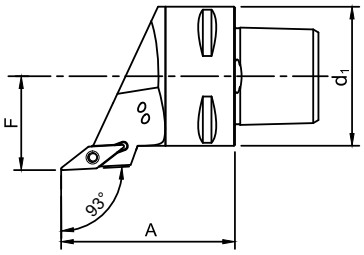
	Insert	DC**11T3**
	Screw	I60M3.5x12 (2.7Nm)
	Screw (Shim)	SM5x8.65XA
	Shim	D11BS
	Wrench (Insert)	WT15IP
	Wrench (Shim)	WH35L

VC** holder (external) S clamping

SVJCR/L Kr: 93°



Right hand type



Article	✲	Stock		Dimensions [mm]			Insert
		R	L	d_1	F	A	
PSC40.SVJCL.27050.11IC	✲		●	40	27	50	VC**1103**
PSC40.SVJCR.27050.11IC	✲	●		40	27	50	VC**1103**
PSC50.SVJCL.35060.11IC	✲		●	50	35	60	VC**1103**
PSC50.SVJCR.35060.11IC	✲	●		50	35	60	VC**1103**

● Ex stock ○ On demand

✲ With internal cooling

Spare parts

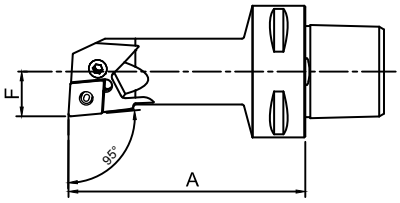
	Insert	**VC**1103****
	Screw	I60M2.5x6.5 (1.0Nm)
	Wrench	WT07IP

CN** holder (internal) P clamping

PCLNR/L Kr: 93°



Right hand type



Article	✻	Stock R	Stock L	Dimensions [mm] d_1	Dimensions [mm] F	Dimensions [mm] A	Insert
PSC50.PCLNR.17090.12IC	✻	●		50	17	90	CN**1204**
PSC63.PCLNL.17100.12IC	✻		●	63	17	100	CN**1204**
PSC63.PCLNR.17100.12IC	✻	●		63	17	100	CN**1204**

● Ex stock ○ On demand

✻ With internal cooling

Spare parts

	Insert	CN**1204**
	Knee lever	L4A
	Screw	LEM6x13.4A (7Nm)
	Wrench	WH25L

P	C	L	N	L	25	25	M	12
1	2	3	4	5	6	7	8	9

Clamping system

Code	Description	
P	Lever lock clamping	
M	Wedge/pin lock clamping	
S	Screw-on clamping	
C/J	Wedge clamping	
D	Duel wedge clamping	

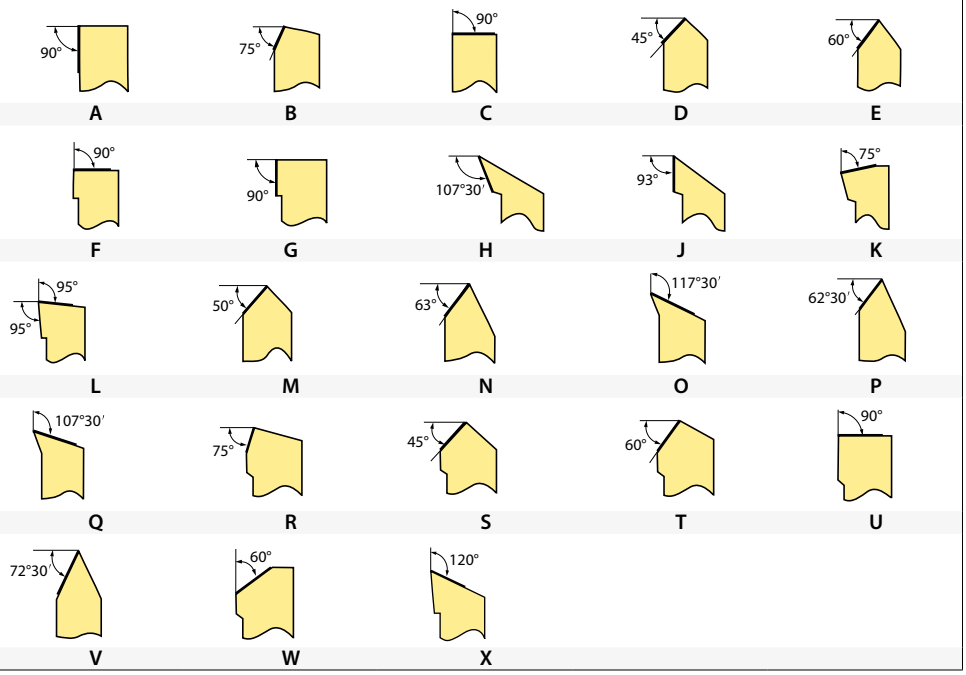
1

Insert shape

C	
D	
R	
S	
T	
V	
W	

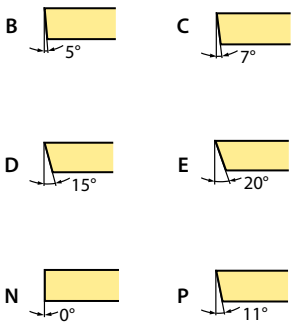
2

Tool holder type and entering angle



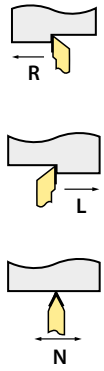
3

Clearance angle



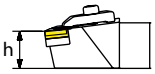
4

Cutting direction



5

Shank height h [mm]



Code	h
12	12
16	16
20	20
25	25
32	32
40	40
50	50

6

Shank width b [mm]



Code	b
12	12
16	16
20	20
25	25
32	32
40	40
50	50

7

Holder length L [mm]



Code	L
H	100
K	125
M	150
P	170
Q	180
R	200
S	250
T	300

8

Cutting edge length l [mm]

I.C [mm]	Insert shape						
	C	D	R	S	T	V	W
5,56					**09**		
6,35	**06**	**07**			**11**		
9,525	**09**	**11**	**09**	**09**	**16**	**16**	**06**
12,7	**12**	**15**	**12**	**12**	**22**	**22**	**08**
15,875	**16**	**19**	**15**	**15**	**27**		
19,05	**19**		**19**	**19**	**33**		
25,4	**25**		**25**	**25**	**44**		
32			**32**				

9

ISO tool holders (internal cooling)

Optimum temperature control for consistent results every time

YOUR BENEFITS

– Targeted supply of coolant and flank face cooling for **optimum chip removal** and a **long tool life**
– **Higher productivity** thanks to reduced machining temperatures
– Optimised shank lengths for **greater ease of use** with VDI tool holders with coolant delivery

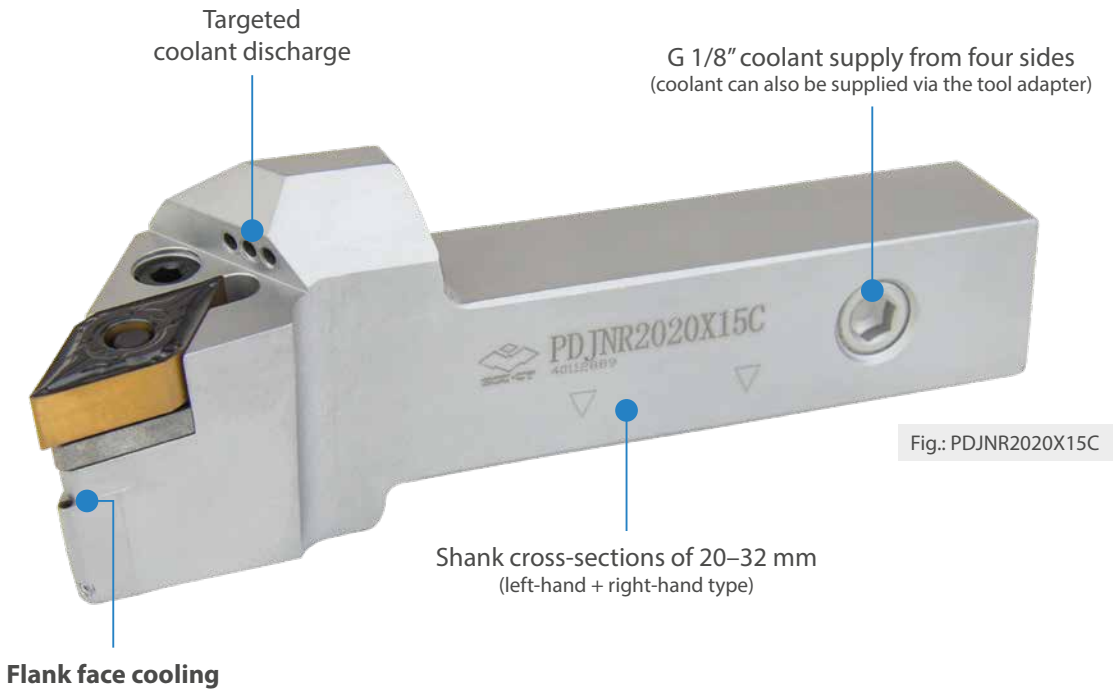


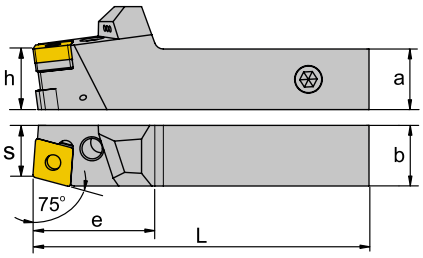
Fig.: PDJNR2020X15C

CN holder (external)** **P clamping**

PCBNR/LC Kr: 75°



Right hand style





Article	✻	Stock		Dimensions [mm]							Insert
		R	L	a	b	L	h	s	e	M	
PCBNR/L2020X12C	✻	●	●	20	20	112	20	17	42	G1/8	CN**1204**
PCBNR/L2525X12C	✻	●	●	25	25	127	25	22	42	G1/8	CN**1204**
PCBNR/L2525X16C	✻	●	●	25	25	132	25	22	47	G1/8	CN**1606**

● Ex stock ○ On demand

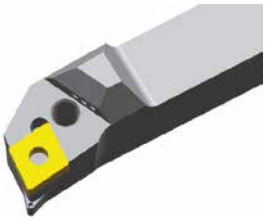
✻ With internal cooling

Spare parts

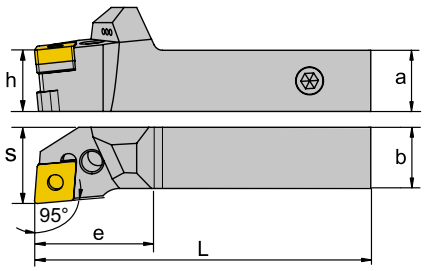
	Insert	**CN**1204****	**CN**1606****
	ØD	**16-32**	**16-40**
	Knee lever	L4	L5
	Screw	LEM8×21 (10,2 Nm)	LEM8×25 (10,2 Nm)
	Shim	C12AP	C16AP
	Shim pin	SP4	SP5
	Wrench	WH30L	WH30L

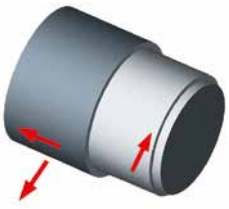
CN holder (external)** **P clamping**

PCLNR/LC Kr: 95°



Right hand style





Article	✻	Stock		Dimensions [mm]							Insert
		R	L	a	b	L	h	s	e	M	
PCLNR/L2020X12C	✻	●	●	20	20	112	20	27	42	G1/8	CN**1204**
PCLNR/L2525K12C	✻	●	●	25	25	125	25	32	40	G1/8	CN**1204**
PCLNR/L2525X16C	✻	●	●	25	25	131	25	32	46	G1/8	CN**1606**
PCLNR/L3232X19C	✻	●	●	32	32	153	32	40	53	G1/8	CN**1906**

● Ex stock ○ On demand

✻ With internal cooling

Spare parts

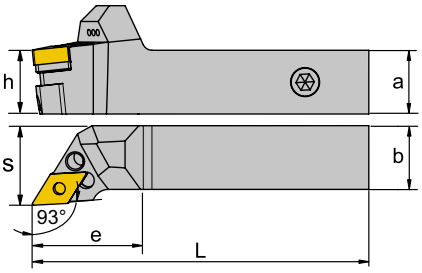
	Insert	**CN**1204****	**CN**1606****	**CN**1906****
	ØD	**16-32**	**16-40**	**25-40**
	Knee lever	L4	L5	L6
	Screw	LEM8×21 (10,2 Nm)	LEM8×25 (10,2 Nm)	LEM10×27 (16,6 Nm)
	Shim	C12AP	C16AP	C19AP
	Shim pin	SP4	SP5	SP6
	Wrench	WH30L	WH30L	WH40L

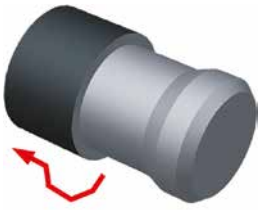
DN holder (external)** **P clamping**

PDJNR/LC Kr: 93°



Right hand style





Article	✻	Stock R	Stock L	Dimensions [mm] a	b	L	h	s	e	M	Insert
PDJNR/L2020X11C	✻	●	●	20	20	106	20	27	36	G1/8	DN**1104**
PDJNR/L2525X11C	✻	●	●	25	25	121	25	32	36	G1/8	DN**1104**
PDJNR/L2020X15C	✻	●	●	20	20	115	20	27	45	G1/8	DN**1506**
PDJNR/L2525X15C	✻	●	●	25	25	128	25	32	43	G1/8	DN**1506**

● Ex stock ○ On demand

✻ With internal cooling

Spare parts

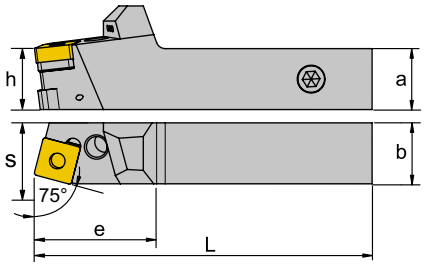
	Insert	DN**1104**	DN**1506**
	ØD	16-32	20-40
	Knee lever	L3	L4B
	Screw		LEM8×21 (10,2 Nm)
	Screw	LEM6×13,4A (7,0 Nm)	
	Shim	D11AP	D15AP
	Shim pin	SP3	SP4
	Wrench	WH25L	WH30L

SN holder (external)** **P clamping**

PSBNR/LC Kr: 75°



Right hand style





Article	✻	Stock		Dimensions [mm]							Insert
		R	L	a	b	L	h	s	e	M	
PSBNR/L2020X12C	✻	●	●	20	20	112	20	17	42	G1/8	SN**1204**
PSBNR/L2525X12C	✻	●	●	25	25	127	25	22	42	G1/8	SN**1204**
PSBNR/L3232X19C	✻	●	●	32	32	155	32	27	55	G1/8	SN**1906**

● Ex stock ○ On demand

✻ With internal cooling

Spare parts

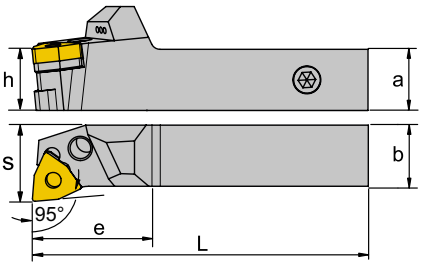
	Insert	**SN**1204****	**SN**1906****
	ØD	**20-40**	**25-40**
	Knee lever	L4	L6
	Screw	LEM8×21 (10,2 Nm)	LEM10×27 (16,6 Nm)
	Shim	S12AP	S19AP
	Shim pin	SP4	SP6
	Wrench	WH30L	WH40L

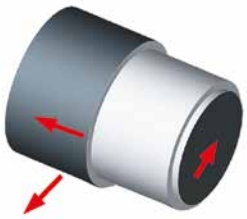
WN holder (external)** **P clamping**

PWLNR/LC Kr: 95°



Right hand style





Article	✻	Stock		Dimensions [mm]							Insert
		R	L	a	b	L	h	s	e	M	
PWLNR/L2020X08C	✻	●	●	20	20	112	20	25	42	G1/8	WN**0804**
PWLNR/L2525X08C	✻	●	●	25	25	127	25	31	42	G1/8	WN**0804**

● Ex stock ○ Oh demand

✻ With internal cooling

Spare parts

	Insert	**WN**0804****
	ØD	**20-32**
	Knee lever	L4
	Screw	LEM8×21 (10,2 Nm)
	Shim	W08AP
	Shim pin	SP4
	Wrench	WH30L



ISO tool holders with internal cooling

zCLAMP® HYDRO

Secure tool clamping for maximum process reliability

YOUR BENEFITS

– **Lower tooling costs** since tools last up to 300 per cent longer*
– **Secure tool clamping** thanks to clamping forces of up to of 2,000 Nm
– **Top surface qualities** and **less noise** are possible thanks to vibration damping
– Tool changes are completed in seconds without the need for any peripheral equipment for **shorter changeover times**
– Consistent run-out accuracy of less than 0.003 mm for **maximum performance**



Fig.: zClamp Hydro SK40 Ø20 L64.5

* Verified in a study conducted by the wbk Institute for Production Science at the Karlsruhe Institute of Tech

Oil and lubricant residue is pushed into the **groove**, keeping the clamping surface dry while maintaining the clamping force.



The **expansion sleeve with chamber system** loops evenly around and clamps the entire surface of the tool shank. At the same time, the chamber system delivers optimum vibration damping.

Length adjustment screw makes it easy to pre-adjust the tool in next to no time.

The **actuation screw** can be tightening to the end stop without a torque wrench.

The base unit is available with the following interfaces: HSK/SK and JIS-BT.

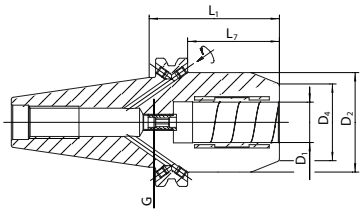
Hydraulic expansion chucks SK

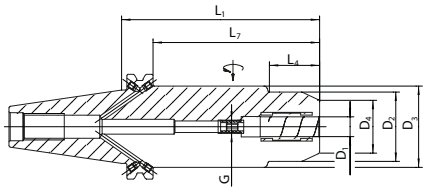
zClamp Hydro SK hydraulic expansion chucks

ISO 7388-1 AD/AF

- G2.5 balancing quality grade at 25,000 rpm
- Run-out accuracy of less than 0.003 mm at a projecting length of 2.5xD
- Available with axial length adjustment







Article	Dimensions [mm]												Stock
	SK	D_1	D_2	D_3	D_4	L_1	L_2	L_3	L_4	L_5	G	M_{min}	
90505014000812050	SK40	12	42	–	32	50	46	10	30.9	–	M8x1	110	○
90505014000816064	SK40	16	49.25	–	38	64.5	51	10	45.4	–	M8x1	350	○
90505014000820064	SK40	20	49.25	–	38	64.5	51	10	45.4	–	M8x1	520	○
90505014000832115	SK40	32	62.5	–	58.5	115	61	10	95.95	–	M8x1	800	○
90505014000812130	SK40	12	42	44.5	32	130	46	10	32	–	M8x1	110	○
90505014000816130	SK40	16	42	44.5	38	130	51	10	50	–	M8x1	400	○
90505014000820130	SK40	20	42	44.5	38	130	51	10	50	–	M8x1	400	○

● ex stock ○ on demand

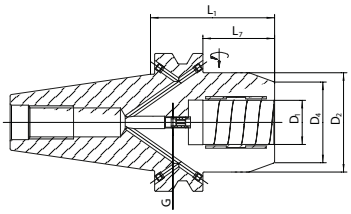
M_{min} = guaranteed clamping force in Nm

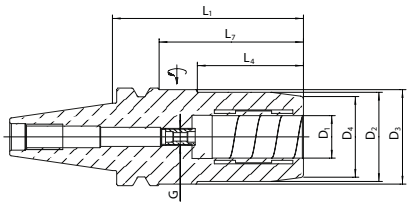
zClamp Hydro JIS-BT hydraulic expansion chucks

ISO 7388 JD/JF

- G2.5 balancing quality grade at 25,000 rpm
- Run-out accuracy of less than 0.003 mm at a projecting length of 2.5xD
- Available with axial length adjustment







Article	Dimensions [mm]												Stock
	JIS-BT	D_1	D_2	D_3	D_4	L_1	L_2	L_3	L_4	L_5	G	M_{min}	
90505034000812058	BT40	12	42	–	32	58	46	10	31	–	M8x1	110	○
90505034000816072	BT40	16	49.25	–	38	72.5	51	10	45.5	–	M8x1	350	○
90505034000820072	BT40	20	49.25	–	38	72.5	51	10	45.5	–	M8x1	520	○
90505034000832120	BT40	32	62.5	–	58.5	120	61	10	–	93	M8x1	800	○

● ex stock ○ on demand

M_{min} = guaranteed clamping force in Nm

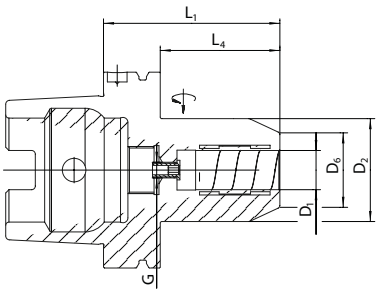
Hydraulic expansion chucks HSK-A

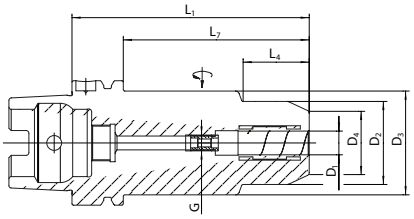
zClamp Hydro HSK-A hydraulic expansion chucks

ISO 12164-1

- G2.5 balancing quality grade at 25,000 rpm
- Run-out accuracy of less than 0.003 mm at a projecting length of 2.5xD
- Available with axial length adjustment







Article	Dimensions [mm]											Stock
	HSK-A	D_1	D_2	D_3	D_4	L_1	L_2	L_3	L_4	L_5	G	M_{min}	
90505046300812080	HSK-A63	12	42	52.5	32	80	46	10	34	54	M8x1	110	○
90505046300816080	HSK-A63	16	52,5	–	38	80	51	10	54	–	M8x1	350	○
90505046300820080	HSK-A63	20	52,5	–	38	80	51	10	54	–	M8x1	520	○
90505046300832120	HSK-A63	32	62,5	–	58,5	120	61	10	94	–	M8x1	800	○
90505046300812130	HSK-A63	12	42	44.5	32	130	46	10	32	104	M8x1	110	○
90505046300816130	HSK-A63	16	42	44.5	38	130	51	10	50	104	M8x1	350	○
90505046300820130	HSK-A63	20	42	44.5	38	130	51	10	50	104	M8x1	400	○

● ex stock ○ on demand

M_{min} = guaranteed clamping force in Nm.

Accessories

		Article	Stock
	**HSK 63 coolant pipe**	9799133	○



zClamp Hydro

Reaming

Milling

Drilling

Threading

Adapter sleeves

Wide clamping range thanks to adapter sleeves

YOUR BENEFITS

– **Maximum flexibility for optimum cost control:** one tool holder for several clamping diameters
– **Flexible length pre-adjustment** thanks to movable end stop
– **Higher clamping force** compared to direct clamping for greater process reliability
– **Precise results every time** thanks to run-out accuracy of less than 0.003 mm



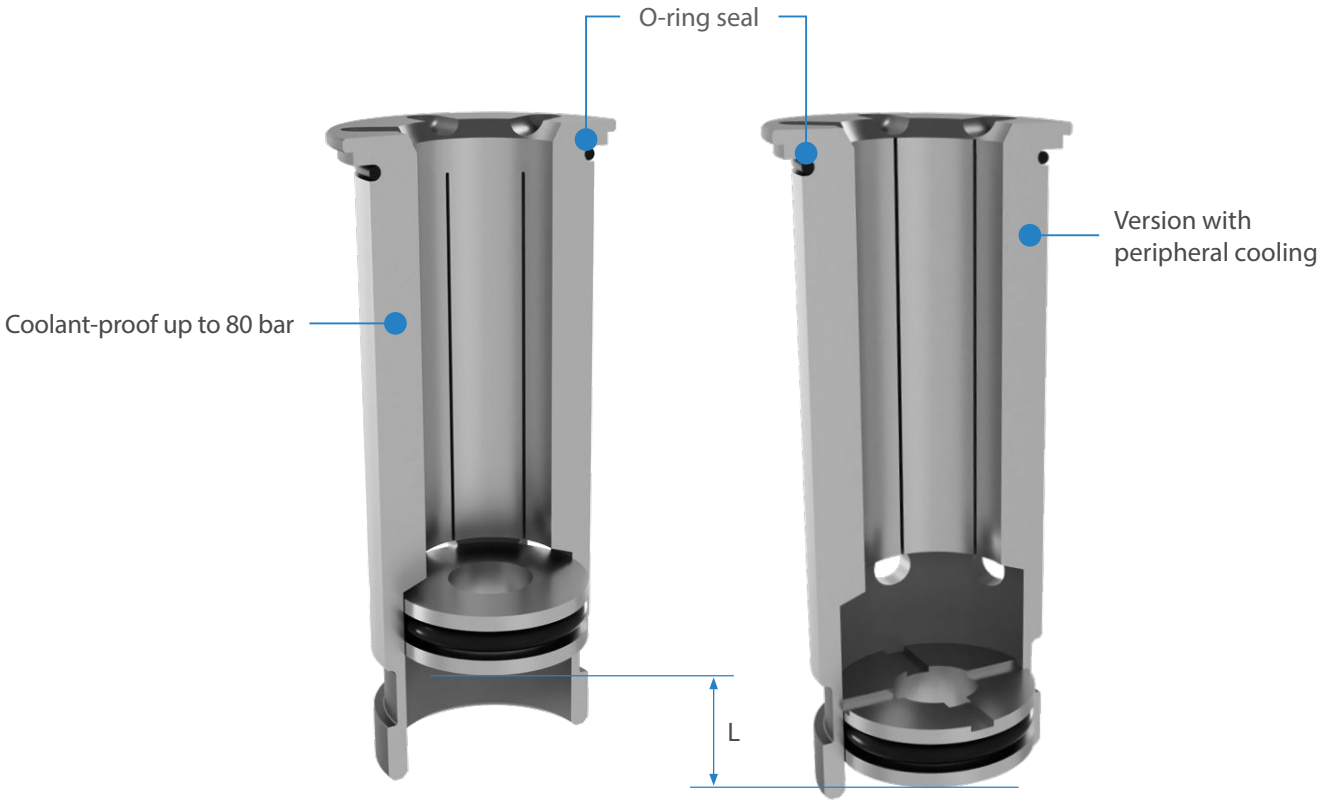
Fig.: 90507292012

Fig.: zClamp Hydro SK40 Ø20 L64.5

YOUR BENEFITS

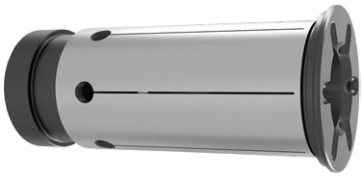
Peripheral cooling

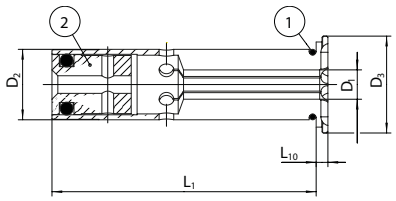
– **Longer tool life** thanks to optimised coolant outlet located directly on the tool shank
– **Enhanced chip extraction** thanks to targeted application of coolant
– **Targeted cooling** made possible by coolant slot with nozzle geometry



Tool length L can be flexibly adjusted with all adapter sleeves using an adjustable end stop.

Adapter sleeve for hydraulic expansion tool holder (coolant-proof)





① O-ring seal ② Adjustable end stop

Article	Dimensions [mm]					Stock
	D_1	D_2	D_3	L_1	L_{10}	
90507291203	3	12	16.5	45	2	○
90507291204	4	12	16.5	45	2	○
90507291205	5	12	16.5	45	2	○
90507291206	6	12	16.5	45	2	○
90507291208	8	12	16.5	45	2	○
90507291210	10	12	16.5	45	2	○
90507292003	3	20	24	50.5	2	○
90507292004	4	20	24	50.5	2	○
90507292005	5	20	24	50.5	2	○
90507292006	6	20	24	50.5	2	○
90507292007	7	20	24	50.5	2	○
90507292008	8	20	24	50.5	2	○
90507292009	9	20	24	50.5	2	○
90507292010	10	20	24	50.5	2	○
90507292011	11	20	24	50.5	2	○
90507292012	12	20	24	50.5	2	○
90507292013	13	20	24	50.5	2	○
90507292014	14	20	24	50.5	2	○
90507292015	15	20	24	50.5	2	○
90507292016	16	20	24	50.5	2	○
90507293206	6	32	35.5	60.5	2	○
90507293208	8	32	35.5	60.5	2	○
90507293210	10	32	35.5	60.5	2	○
90507293212	12	32	35.5	60.5	2	○
90507293214	14	32	35.5	60.5	2	○
90507293216	16	32	35.5	60.5	2	○
90507293218	18	32	35.5	60.5	2	○
90507293220	20	32	35.5	60.5	2	○
90507293225	25	32	35.5	60.5	2	○

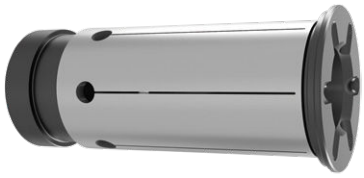
● ex stock ○ on demand

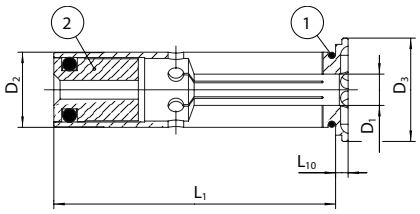
Note: For shank tolerances of h6 or higher.

Accessories

		Article	Stock
	**Sleeve removal tool**	9937987	●

Adapter sleeve for hydraulic expansion tool holder (peripheral cooling)





① O-ring seal ② Adjustable end stop

Article	Dimensions [mm]					Stock
	D_1	D_2	D_3	L_1	L_{10}	
90507301203	3	12	16.5	45	2	○
90507301204	4	12	16.5	45	2	○
90507301205	5	12	16.5	45	2	○
90507301206	6	12	16.5	45	2	○
90507301208	8	12	16.5	45	2	○
90507302003	3	20	24	50.5	2	○
90507302004	4	20	24	50.5	2	○
90507302005	5	20	24	50.5	2	○
90507302006	6	20	24	50.5	2	○
90507302007	7	20	24	50.5	2	○
90507302008	8	20	24	50.5	2	○
90507302009	9	20	24	50.5	2	○
90507302010	10	20	24	50.5	2	○
90507302011	11	20	24	50.5	2	○
90507302012	12	20	24	50.5	2	○
90507302013	13	20	24	50.5	2	○
90507302014	14	20	24	50.5	2	○
90507302015	15	20	24	50.5	2	○
90507302016	16	20	24	50.5	2	○
90507303206	6	32	35.5	60.5	2	○
90507303208	8	32	35.5	60.5	2	○
90507303210	10	32	35.5	60.5	2	○
90507303212	12	32	35.5	60.5	2	○
90507303214	14	32	35.5	60.5	2	○
90507303216	16	32	35.5	60.5	2	○
90507303218	18	32	35.5	60.5	2	○
90507303220	20	32	35.5	60.5	2	○
90507303225	25	32	35.5	60.5	2	○

● ex stock ○ on demand

Note: For shank tolerances of h6 or higher.

Accessories

		Article	Stock
	**Sleeve removal tool**	9937987	○



zClamp Hydro

Threading

Milling

Drilling

Reaming

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739 | PNK | v1.0 | 4.1 | 09.26

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