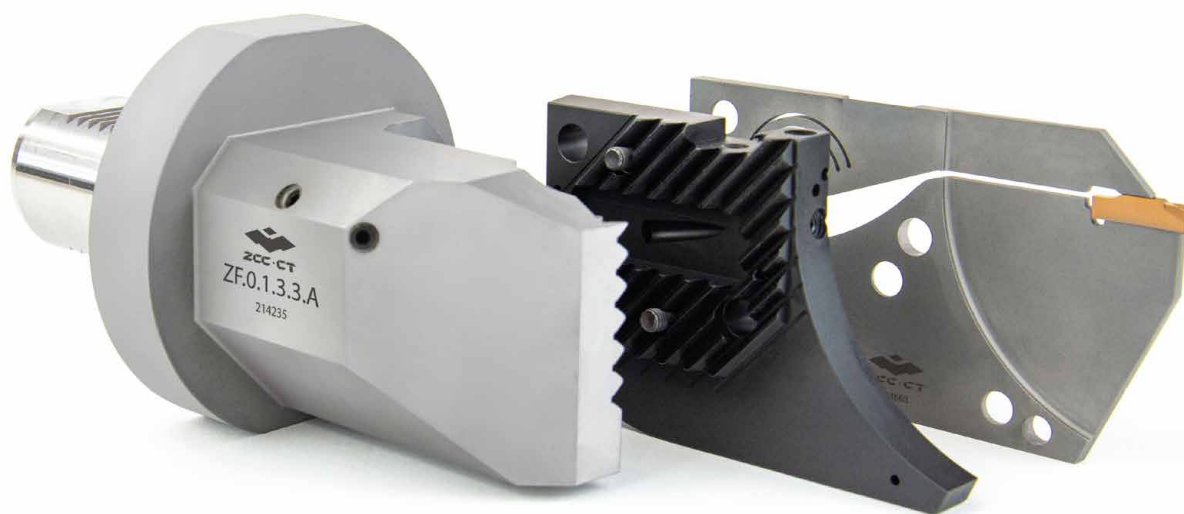


ZFLEX®

Modular grooving system

Maintain flexibility in your production operations



– EN –



ZCC Cutting Tools Europe GmbH

your Partner | your Value

The Company

Zhuzhou Cemented Carbide Cutting Tools Co., Ltd. (ZCC-CT), based in Zhuzhou, China, is the largest Chinese manufacturer of carbide tools. It is also a key company of China Tungsten High-Tech Material Co. Ltd. part of the China Minmetals Corporation.

Since its founding in 1953, ZCC Cutting Tools Co., Ltd. has grown to become one of the world's leading carbide manufacturers with more than 2,000 employees by using the latest technologies and employing highly skilled personnel. The company continuously modernises production technologies and expands its production capacities to enable the company's ongoing growth. As part of Minmetals Corporation, ZCC-CT is able to cover the entire value chain of modern carbide tool production itself, from raw material extraction through to the coated end product and all associated intermediate steps.

By drawing on the latest in European production technology, the company offers products that consistently meet the highest quality standards. Our extensive product range includes carbide/solid carbide, cermet, CBN, PCD and ceramic inserts, carbide tools, tool holders, milling bodies and the accompanying tool systems. All products are consistently produced to accepted international standards, including ISO, DIN, ANSI, JIS and BSI. In addition, ZCC-CT offers customised solutions and special carbide products built to individual specifications.

ZCC-CT invests heavily in research and development. The associated investments go beyond that of most competitors. ZCC Cutting Tools' excellently trained engineers, scientists and a competent, international team, research the necessary fundamentals. These form the basis for the ongoing development of new products and the improvement of existing ones.

The company continuously introduces improvements in quality to meet the customers' ever-increasing demands for new and innovative products and to maximise the benefit of each individual

customer. Both production and administration in China are subject to the ISO 9001:2008 standard, while environmental management is subject to the requirements set out in ISO 14001:2004.

The foundation of the European headquarters of ZCC-CT, ZCC Cutting Tools Europe GmbH and the European central warehouse, both located in Düsseldorf (Germany), dates back to 2003. Today, all European countries as well as the adjacent markets are served from there.

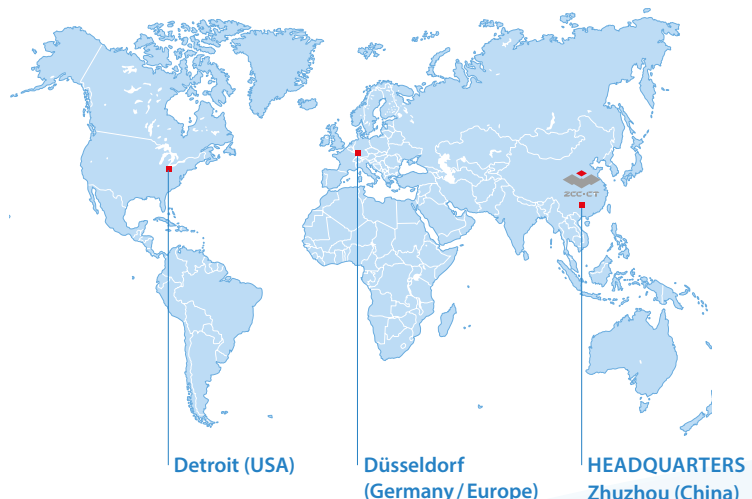
The quality management system of ZCC Cutting Tools Europe GmbH is certified in the area of 'distribution and logistics of metal-working tools' in accordance with ISO 9001:2008.

The Test and Demonstration Centre is available for optimizing customer processes according to individual requirements.

External sales staff and distribution partners in Europe work hand in hand to support customers across the region. Our friendly ZCC-CT application engineers are also available to support you with their expertise and experience by phone, e-mail or in person at your production facility.

The entire field and office sales force is available to answer enquiries from clients across Europe in their native language. Together with employees from the logistics team and with the help of a sophisticated service system, they ensure that all orders are delivered as quickly as possible to you. Branch offices in France and Great Britain add to additional regional proximity to customers.

ZCC Cutting Tools Europe GmbH and all of our employees are there for you and have your back as a competent partner for all matters concerning machining production. This is how we define 'your partner – your value'.



System overview

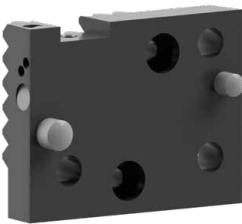
**Parting & grooving
Turning (p. A12)**



Tool holder VDI/PSC/HSK

**Parting & grooving
(a, max. 40 mm) (p. A20)**

Base cartridge L/R



Base cartridge L/R



Primary cartridge L/R



Groove width 1,5–8,0 mm

Primary cartridge L/R



Groove width 2,0–3,0 mm

Notes

A series of horizontal dotted lines for taking notes.

Modular grooving system

System overview A3

Tool holder

VDI – B1 and B4 A6
VDI – B2 and B3 A7
VDI – C1 and C4 A8
HSK-A A9
PSC A10

Parting & grooving /Turning

Advantages of system and mechanical design A12–A13
Base cartridge A14
Primary cartridge A15
Inserts (single sided / double sided) A16–A18

Parting & grooving (a, max. 40 mm)

Advantages of system and mechanical design A20–A21
Base cartridge A22
Primary cartridge A23
Inserts (single sided) A25–A27

Technical Information

Tool orientation A26
Tool overall length A27



A

Turning

B

Milling

C

Drilling

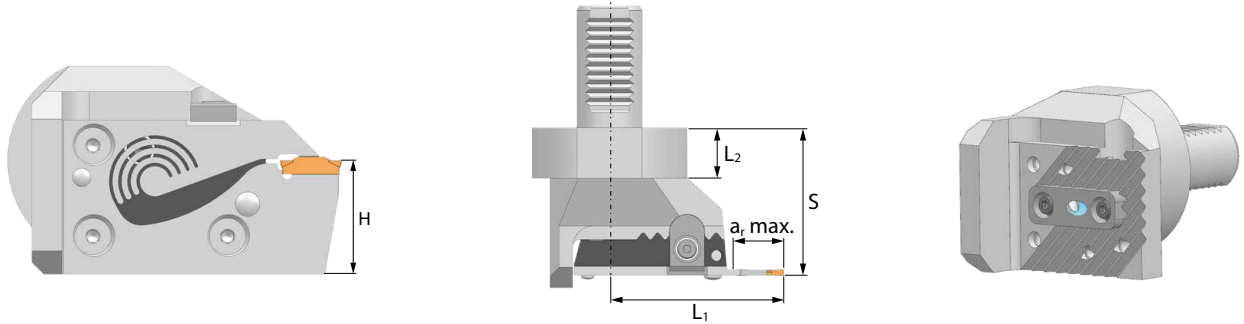
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Tool holder VDI – B1 and B4



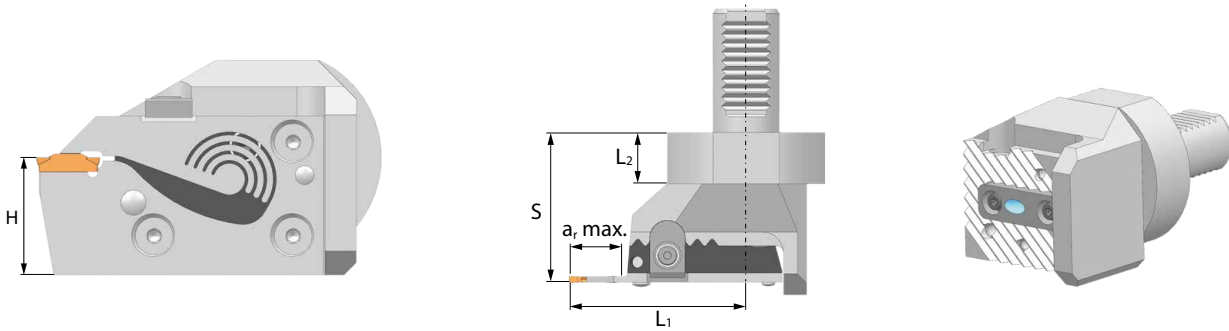
Article	VDI	Stock	Tool arrangement	Dimensions [mm]		Base cartridge
				L ₂		
ZF.0.1.1.1.A	VDI25	●	B1 and B4	18		ZF.1.1.L.**
ZF.0.1.2.1.A	VDI30	●	B1 and B4	22		ZF.1.1.L.**
ZF.0.1.3.1.A	VDI40	●	B1 and B4	22		ZF.1.1.L.**
ZF.0.1.4.1.A	VDI50	●	B1 and B4	30		ZF.1.1.L.**

● Ex stock ○ On demand

Spare parts

	Article	Stock
	Clamp	ZF.0.C.0 ●

Tool holder **VDI – B2 and B3**



Article	VDI	Stock	Tool arrangement	Dimensions [mm]		Base cartridge
				L ₂		
ZF.0.1.1.2.A	VDI25	○	B2 and B3	18		ZF.1.1.R.**
ZF.0.1.2.2.A	VDI30	○	B2 and B3	22		ZF.1.1.R.**
ZF.0.1.3.2.A	VDI40	○	B2 and B3	22		ZF.1.1.R.**
ZF.0.1.4.2.A	VDI50	○	B2 and B3	30		ZF.1.1.R.**

● Ex stock ○ On demand

A

Turning

B

Milling

C

Drilling

D

Technical Information

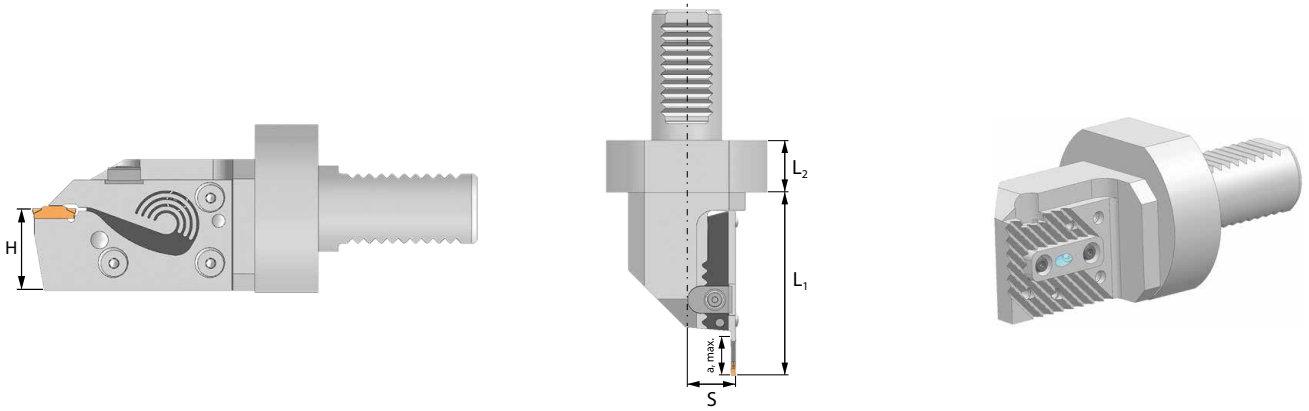
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Spare parts

	Article	Stock
	Clamp ZF.0.C.0	●

Tool holder VDI – C1 and C4



Article	VDI	Stock	Tool arrangement	Dimensions [mm]		Base cartridge
				L ₂		
ZF.0.1.1.3.A	VDI25	●	C1 and C4	18		ZF.1.1.R.**
ZF.0.1.2.3.A	VDI30	●	C1 and C4	22		ZF.1.1.R.**
ZF.0.1.3.3.A	VDI40	●	C1 and C4	22		ZF.1.1.R.**
ZF.0.1.4.3.A	VDI50	●	C1 and C4	30		ZF.1.1.R.**

● Ex stock ○ On demand

Spare parts

	Article	Stock
	Clamp	ZF.0.C.0 ●

A

Turning

B

Milling

C

Drilling

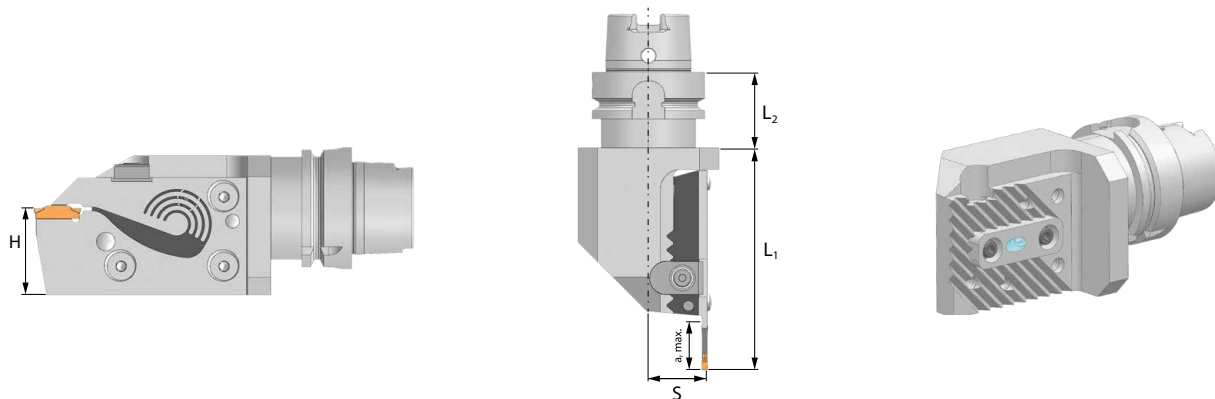
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Tool holder **HSK-A**



Article	HSK-A	Stock		Dimensions [mm]	Base cartridge
		R	L	L ₂	
ZF.0.2.1.0.A.R/L	HSK-A 32	○	○	36	ZF.1.1.R/L.**
ZF.0.2.2.0.A.R/L	HSK-A 40	●	●	36	ZF.1.1.R/L.**
ZF.0.2.3.0.A.R/L	HSK-A 63	●	●	42	ZF.1.1.R/L.**
ZF.0.2.4.0.A.R/L	HSK-A 80	○	○	42	ZF.1.1.R/L.**
ZF.0.2.5.0.A.R/L	HSK-A 100	○	○	45	ZF.1.1.R/L.**

● Ex stock ○ On demand

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

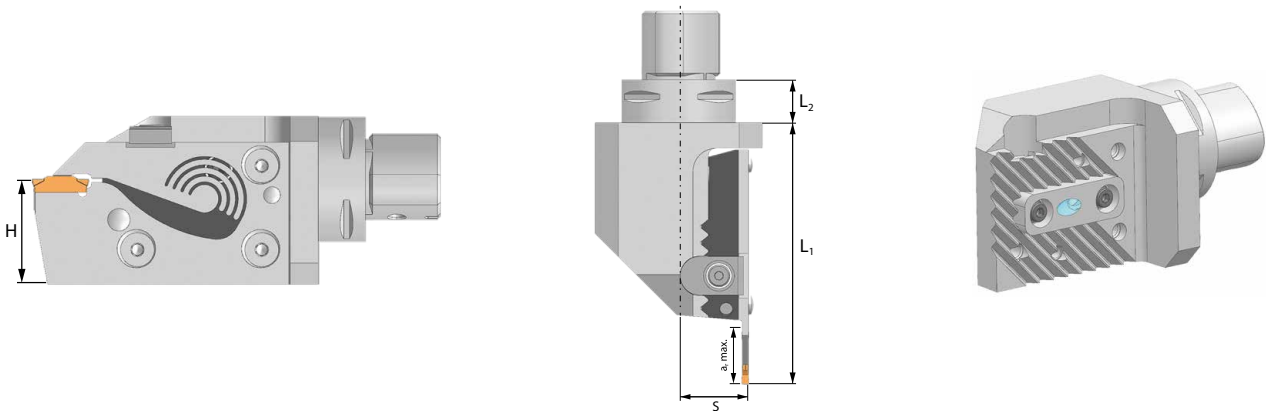
Index

Spare parts

	Article	Stock
	Clamp ZF.0.C.0	●


Modular grooving system PSC

Tool holder PSC



Article	PSC	Stock		Dimensions [mm]	Base cartridge
		R	L	L ₂	
ZF.0.3.1.0.A.R/L	PSC40	○	○	20	ZF.1.1.R/L.**
ZF.0.3.2.0.A.R/L	PSC50	●	●	20	ZF.1.1.R/L.**
ZF.0.3.3.0.A.R/L	PSC63	●	●	22	ZF.1.1.R/L.**
ZF.0.3.4.0.A.R/L	PSC80	○	○	30	ZF.1.1.R/L.**

● Ex stock ○ On demand

Spare parts			
		Article	Stock
	Clamp	ZF.0.C.0	●

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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Fax max 65kN

ZFLEX[®]

Parting & grooving /Turning





Modular grooving system

Parting & grooving / Turning

Advantages of system and mechanical design

The tool holder is compatible with all primary cartridges, meaning it can be used in any grooving operation

Interlocking system ensures the tool holder and cartridge **fit together seamlessly**

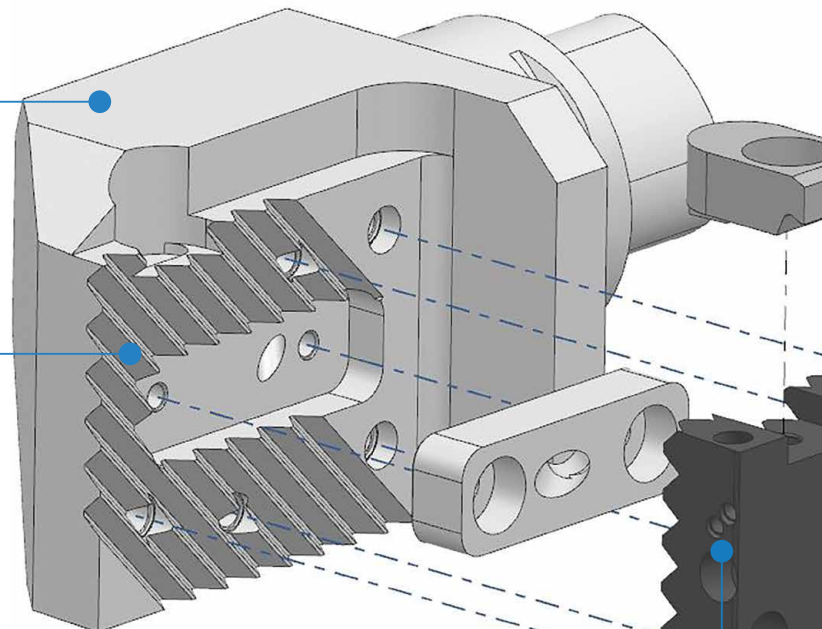


Fig.: ZF.0.3.3.0.A.R

ELI (External Like Internal)
coolant supply system



ASSEMBLY INSTRUCTIONS

SCAN QR CODE AND
WATCH ON YOUTUBE

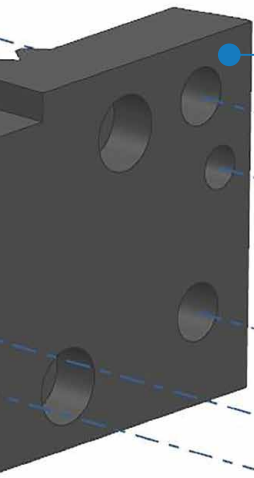
Take off with zFlex: Easy assembly – the key to success

YOUR BENEFITS

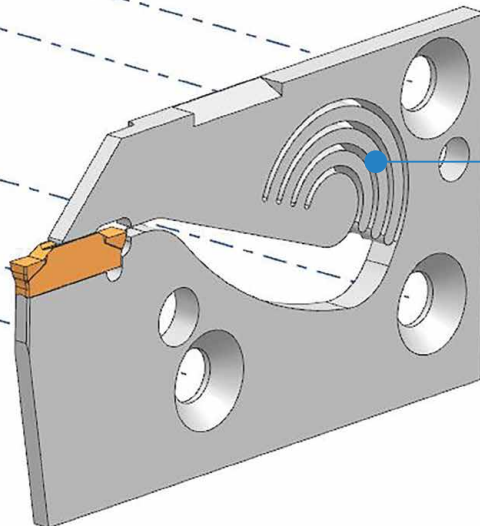
- Gain **flexibility** and **save time** in production
- Only one tool holder needed which keep costs down
- **Minimal wear and tear** on spare parts thanks to rugged design of tool system
- ELI coolant supply as an low-cost alternative to internal cooling
- Clamping function with **no plastic deformation**



Fig.: ZF1.1.REC



Base cartridge makes **replacing the primary cartridge a snap**



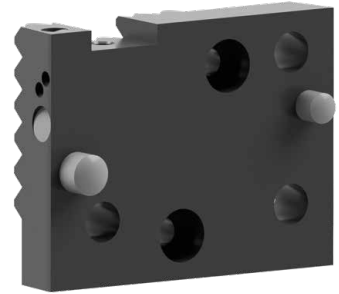
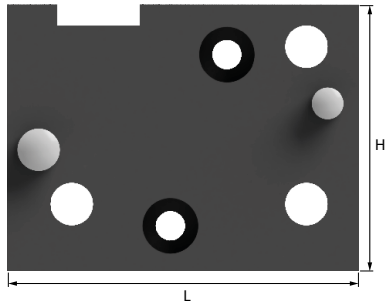
Maximum flexibility thanks to spring tension mechanism

Fig.: ZF2.1.FR23.EC

Base cartridge (Parting & grooving / Turning)

A

Turning



B




Milling

Article	*	Stock		Dimensions [mm]		
		R	L	B	L	H
ZF.1.1.R/L.EC	ext.	●	●	11,25	66,5	50,5

● Ex stock ○ On demand

C

Drilling

Spare parts			
		Article	Stock
	Screw	ZF.1.M5x25	●
	Seal	ZF.1.S.0	●
	Wrench	WH40L	●

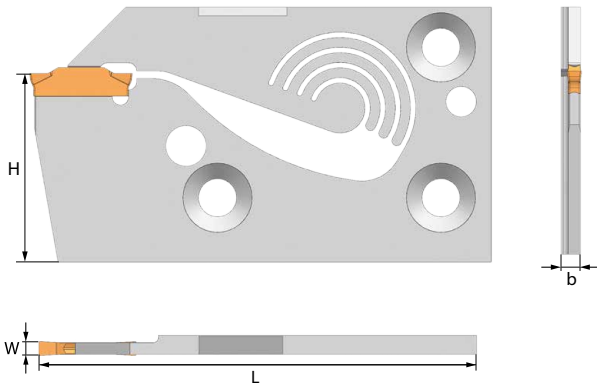
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Primary cartridge (Parting & grooving /Turning)



Article	*	Stock		Dimensions [mm]					Insert
		R	L	W	H	a _r max.	L	b	
ZF.2.1.A.R/L17.EC	ext.	●	●	1,5	37,4	17	85,5	4,0	Z*AD01502
ZF.2.1.B.R/L17.EC	ext.	●	●	2,0	37,4	17	85,5	4,0	Z*BD02002
ZF.2.1.E.R/L23.EC	ext.	●	●	2,5	37,4	23	91,5	4,0	Z*ED02502
ZF.2.1.F.R/L23.EC	ext.	●	●	3,0	37,4	23	91,5	4,0	Z*FD0303
ZF.2.1.G.R/L27.EC	ext.	●	●	4,0	37,4	27	95,5	3,3	Z*GD0404
ZF.2.1.H.R/L27.EC	ext.	●	●	5,0	37,4	27	95,5	4,3	Z*HD0504
ZF.2.1.K.R/L27.EC	ext.	●	●	6,0	37,4	27	95,5	5,3	Z*KD0608
ZF.2.1.L.R/L31.EC	ext.	●	●	8,0	37,4	31	99,5	6,3	Z*LD0808

● Ex stock ○ On demand

Spare parts			
		Article	Stock
	Screw	ZF.2.M6x28	●
	Wrench	WH40L	●

A

Turning

B

Milling

C

Drilling

D

Technical Information




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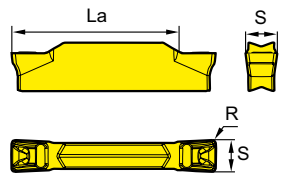




Modular grooving system Inserts (single sided / double sided)

A

Turning

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting inserts

Parting & grooving insert (double sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW
 <p>Double cutting edge</p>						P		
						M		
						K		
						N		
						S		
						H		
ISO	S	R±0.1	La max	f		YB9320 YBG205 YBG202 YBG302		
	ZTBD02002-MM	2,0	0,2	13	0,02-0,07	● ● ○ ○		
	ZTED02503-MM	2,5	0,3	17	0,03-0,1	●		
	ZTFD0303-MM	3,0	0,3	17	0,04-0,13	●		
	ZTGD0404-MM	4,0	0,4	22	0,06-0,18	●		
	ZTHD0504-MM	5,0	0,4	22	0,08-0,23	●		
	ZTKD0608-MM	6,0	0,8	22	0,12-0,27	●		
	ZTLD0808-MM	8,0	0,8	28	0,13-0,29	● ○		

● Ex stock ○ On demand




HC¹ Coated carbide
HW Uncoated carbide

B

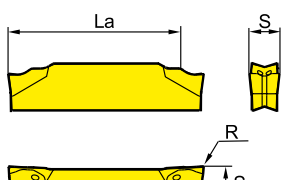




Milling

C

Drilling

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting inserts

Parting & grooving insert (double sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW
 <p>Double cutting edge</p>						P		
						M		
						K		
						N		
						S		
						H		
ISO	S±0.10	R±0.1	La max	f	YBC252 YBC251	YB9320 YBG202 YBG302	YD201	
	ZPED02502-MG	2,5	0,2	17	0,03-0,1	●	● ● ●	
	ZPFD0302-MG	3,0	0,2	17	0,04-0,13	●	● ● ●	
	ZPGD0402-MG	4,0	0,2	22	0,07-0,18	●	● ● ●	○
	ZPHD0503-MG	5,0	0,3	22	0,1-0,24	○	● ● ●	
	ZPKD0604-MG	6,0	0,4	22	0,12-0,29	○	● ● ●	

● Ex stock ○ On demand




HC¹ Coated carbide
HW Uncoated carbide

D

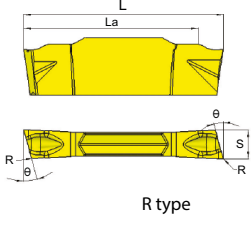




























Technical Information

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-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions




Parting inserts

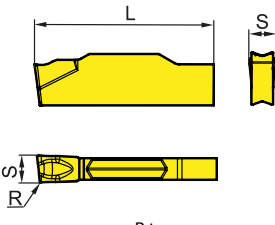



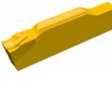




Parting & grooving insert (double sided)								HC ¹ (CVD)	HC ¹ (PVD)	HW	
								P		  	
								M		  	
								K			
								N			
								S		 	
								H			
ISO	L	S	θ	R	La max	f	YBC252	YB9320	YBG202 YBG302		
	ZPED02502-MG-6L	20,0	2,35	6°	0,2	17	0,03-0,08				
	ZPED02502-MG-6R	20,0	2,35	6°	0,2	17	0,03-0,08			 	
	ZPED02502-MG-15L	20,0	2,35	15°	0,2	17	0,03-0,05				
	ZPED02502-MG-15R	20,0	2,35	15°	0,2	17	0,03-0,05			 	
	ZPFD0302-MG-6L	20,0	2,85	6°	0,2	17	0,04-0,1			 	
	ZPFD0302-MG-6R	20,0	2,85	6°	0,2	17	0,04-0,1			 	
	ZPFD0302-MG-15L	20,0	2,85	15°	0,2	17	0,04-0,08			 	
	ZPFD0302-MG-15R	20,0	2,85	15°	0,3	17	0,04-0,08		  		

● Ex stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Parting inserts

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting & grooving insert (single sided)							HC ¹ (CVD)	HC ¹ (PVD)	HW	
							P			
							M			
							K			
							N			
							S			
							H			
ISO	L ±0.1	R ±0.1	S ±0.1	θ	f		YB9320			
	ZPES02502-MG-6L	19,9	0,2	2,5	6°	0,03-0,08				
	ZPES02502-MG-6R	19,9	0,2	2,5	6°	0,03-0,08				
	ZPFS0302-MG-6L	19,9	0,2	3	6°	0,04-0,1				
	ZPFS0302-MG-6R	19,9	0,2	3	6°	0,04-0,1				

● Ex stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

A

Turning

B

Milling

C

Drilling

D

Technical Information




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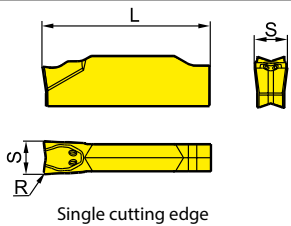











Modular grooving system Inserts (single sided / double sided)

A

Turning

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting inserts

Parting & grooving insert (single sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW	
 <p>Single cutting edge</p>						P		  	
						M		  	
						K			
						N			
						S		 	
						H			
ISO	L±0.1	R±0.1	S±0.10	f	YBC251	YB9320	YBG202 YBG302	YD201	
	ZPES02502-MG	19,9	0,2	2,5	0,03-0,1		● ●		
	ZPFS0302-MG	19,9	0,2	3	0,04-0,13	●	● ●		
	ZPGS0402-MG	19,9	0,2	4	0,07-0,18	○	● ●	○	
	ZPGS0402-MG-25	24,6	0,2	4	0,07-0,18		○		
	ZPHS0503-MG	19,9	0,3	5	0,1-0,24		○ ●		
	ZPHS0503-MG-25	24,6	0,3	5	0,1-0,24		○		
	ZPKS0604-MG	19,9	0,4	6	0,12-0,29		● ●		
	ZPKS0604-MG-25	24,6	0,4	6	0,12-0,29		○		

● Ex stock ○ On demand




HC¹ Coated carbide
HW Uncoated carbide

B

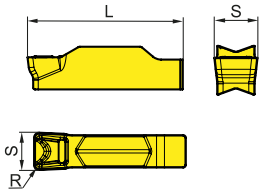




Milling

C

Drilling

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting inserts

Parting & grooving insert (single sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW	
						P			
						M			
						K			
						N			
						S			
						H			
ISO	L±0.1	R±0.1	S±0.10	f		YB9320			
	ZTES02503-MM	19,9	0,3	2,5	0,03-0,1		○		
	ZTFS0303-MM	19,9	0,3	3	0,04-0,13		○		
	ZTGS0404-MM-25	24,6	0,4	4	0,06-0,18		○		
	ZTHS0504-MM-25	24,6	0,4	5	0,08-0,23		○		
	ZTKS0608-MM-25	24,6	0,8	6	0,12-0,27		○		

● Ex stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

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A close-up photograph of a metalworking process. A large, polished metal cylinder is being cut by a tool. The tool is a parting tool, which is a type of turning tool used to cut grooves or part off a workpiece. The tool is positioned at the end of the cylinder, and a small chip of metal is being removed. The tool has a complex, multi-faceted design with several cutting edges. The background is dark and out of focus.

ZFLEX[®]

Parting & grooving (a_r max. 40 mm)



Modular grooving system

Parting & grooving (a_r max. 40 mm)

Advantages of system and mechanical design

The tool holder is **compatible with all primary cartridges**, meaning it can be used in any grooving operation

Interlocking system ensures the tool holder and cartridge fit together seamlessly

Fig.: ZF.0.3.3.0.A.R

ELI (External Like Internal) coolant supply system

Reinforced base for **maximum stability**



ASSEMBLY INSTRUCTIONS

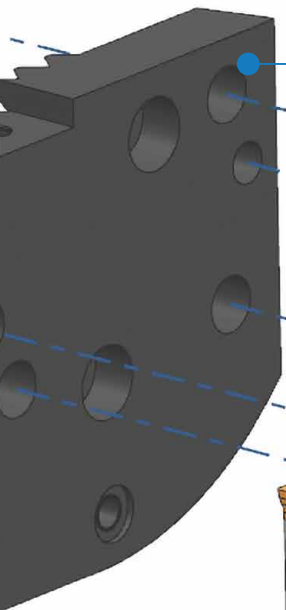
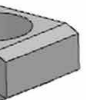
SCAN QR CODE AND
WATCH ON YOUTUBE

Take off with zFlex: Easy assembly – the key to success

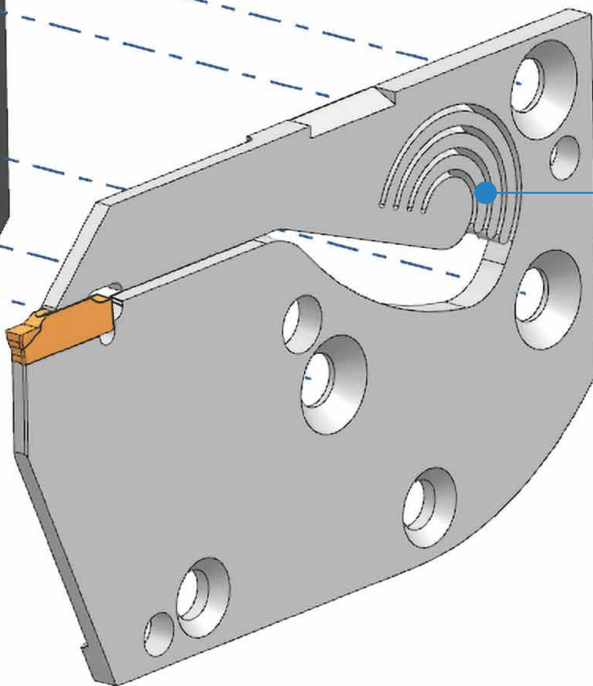
YOUR BENEFITS

- With **strengthened base and primary cartridges** for **parting operations up to \varnothing 80 mm**
- **Flat, smooth results** thanks to high system rigidity
- Gain flexibility and save time in production
- **Minimal wear and tear** on spare parts thanks to rugged design of tool system
- ELI coolant supply as an low-cost alternative to internal cooling
- Spring tension **minimises plastic deformation** of the clamping finger

Fig.: ZF.1.2.R.EC



Base cartridge makes **replacing the primary cartridge a snap**

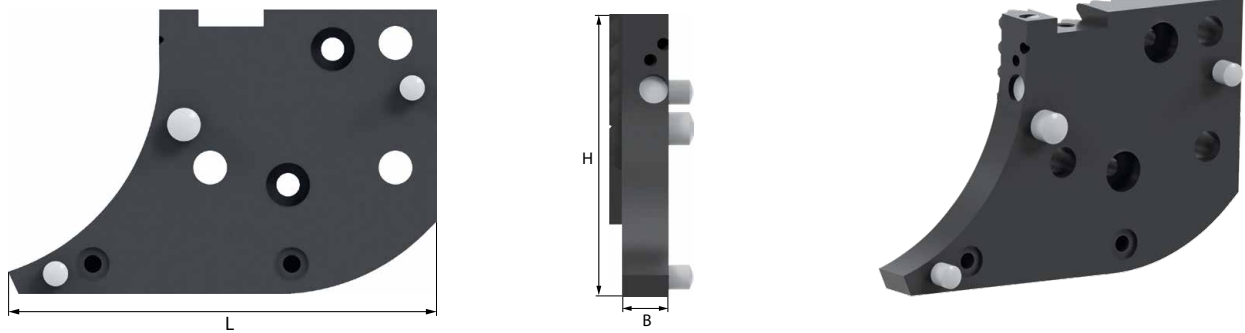


Maximum flexibility thanks to spring tension mechanism

Fig.: ZF.2.2.FR80.EC

Modular grooving system Base cartridge




Base cartridge (Parting & grooving (a_r max. 40 mm))



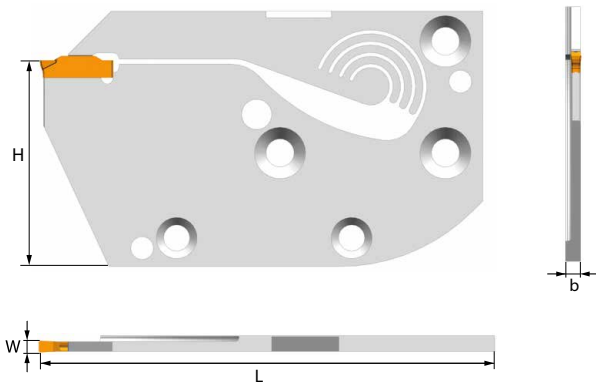
Article	*	Stock		Dimensions [mm]		
		R	L	B	L	H
ZF.1.2.R/L.EC	ext.	●	●	14,25	102,5	68

● Ex stock ○ On demand

Spare parts






		Article	Stock
	Screw	ZF.1.M5x25	●
	Seal	ZF.1.S.0	●
	Wrench	WH40L	●

Primary cartridge (Parting & grooving (a_r max. 40 mm))



Article	*	Stock		Dimensions [mm]					Insert
		R	L	W	H	a_r max.	L	b	
ZF.2.2.B.R/L80.EC	ext.	●	●	2,0	37,4	80	118,5	4,0	Z*BS02002
ZF.2.2.E.R/L80.EC	ext.	●	●	2,5	37,4	80	118,5	4,0	Z*ES02502
ZF.2.2.F.R/L80.EC	ext.	●	●	3,0	37,4	80	118,5	4,0	Z*FS0303

● Ex stock ○ On demand

Spare parts			
		Article	Stock
	Screw	ZF.2.M6x28	●
	Screw	ZF.2.M5x12	●
	Pin	ZF.2.D6x13	●
	Pin	ZF.2.D8x13	●
	Wrench	WH40L	●

A

Turning

B

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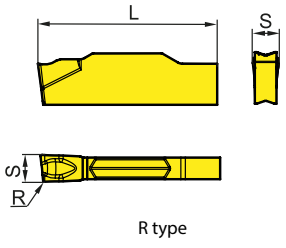

Modular grooving system Inserts (single sided)

A

Turning

Parting inserts

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting & grooving insert (single sided)							HC ¹ (CVD)	HC ¹ (PVD)	HW
							P		
							M		
							K		
							N		
							S		
							H		
ISO	L ±0.1	R ±0.1	S ±0.1	θ	f		YB9320		
	ZPES02502-MG-6L	19,9	0,2	2,5	6°	0,03-0,08		●	
	ZPES02502-MG-6R	19,9	0,2	2,5	6°	0,03-0,08		●	
	ZPFS0302-MG-6L	19,9	0,2	3	6°	0,04-0,1		●	
	ZPFS0302-MG-6R	19,9	0,2	3	6°	0,04-0,1		●	

● Ex stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide




B

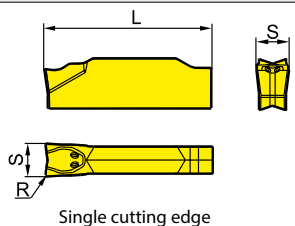











Milling

C

Drilling

Parting inserts

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting & grooving insert (single sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW	
						P		  	
						M		  	
						K			
						N			
						S		 	
						H			
ISO	L ±0.1	R ±0.1	S ±0.10	f		YBC251	YB9320 YBG202 YBG302	YD201	
	ZPES02502-MG	19,9	0,2	2,5	0,03-0,1			● ●	
	ZPFS0302-MG	19,9	0,2	3	0,04-0,13	●		● ●	
	ZPGS0402-MG	19,9	0,2	4	0,07-0,18	○		● ● ○	
	ZPGS0402-MG-25	24,6	0,2	4	0,07-0,18			●	
	ZPHS0503-MG	19,9	0,3	5	0,1-0,24			○ ●	
	ZPHS0503-MG-25	24,6	0,3	5	0,1-0,24			●	
	ZPKS0604-MG	19,9	0,4	6	0,12-0,29			● ●	
ZPKS0604-MG-25	24,6	0,4	6	0,12-0,29			●		

● Ex stock ○ On demand




HC¹ Coated carbide
HW Uncoated carbide

D

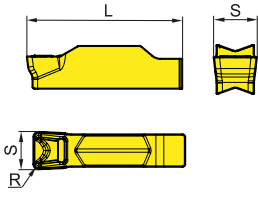




Technical Information

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-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Parting inserts

Parting & grooving insert (single sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW
						P		
						M		
						K		
						N		
						S		
						H		
ISO							YB9320	
L±0.1 R±0.1 S±0.10 f								
	ZTES02503-MM	19,9	0,3	2,5	0,03-0,1		●	
	ZTFS0303-MM	19,9	0,3	3	0,04-0,13		●	
	ZTGS0404-MM-25	24,6	0,4	4	0,06-0,18		●	
	ZTHS0504-MM-25	24,6	0,4	5	0,08-0,23		●	
	ZTKS0608-MM-25	24,6	0,8	6	0,12-0,27		●	

● Ex stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

A

Turning

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Milling

C

Drilling

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Tool orientation, VDI base adapter

A

Turning

B

Milling

C

Drilling

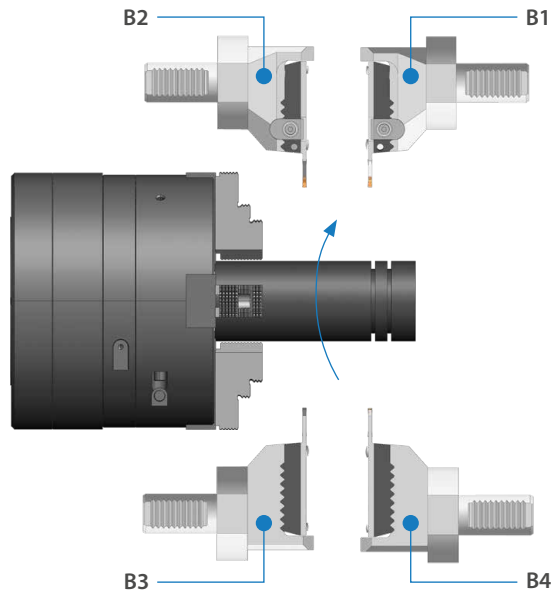
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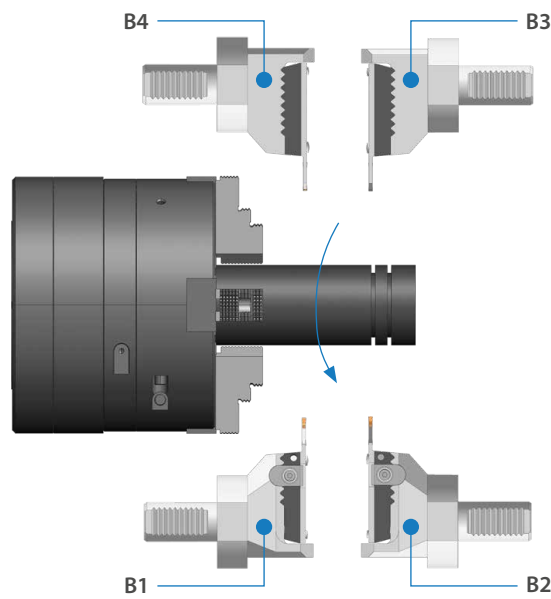
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Radial tool orientation if spindle rotates **left**



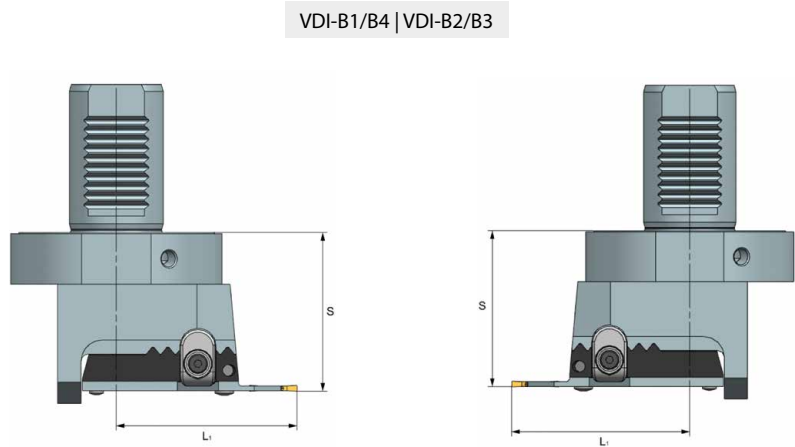
Radial tool orientation if spindle rotates **right**



Tool overall length

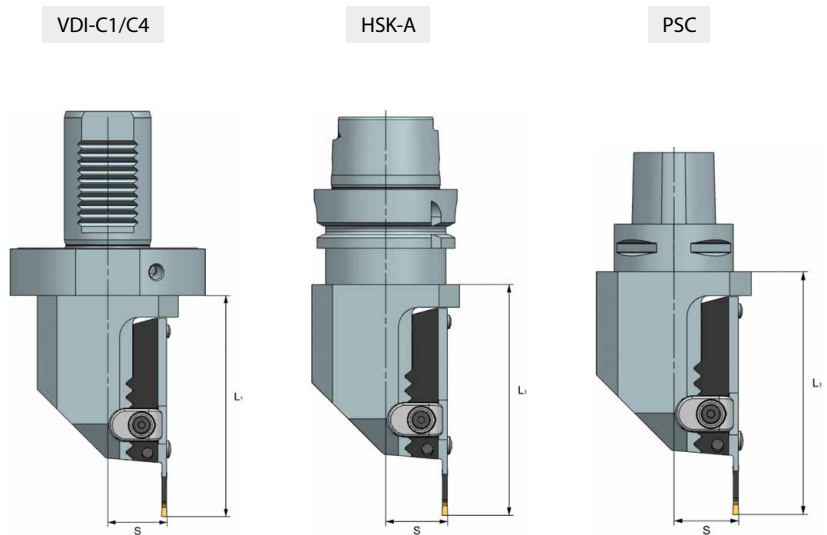
VDI-B1/B4 | VDI-B2/B3

	L ₁	S
ZF.2.1.A.R/L17.EC	71 mm	67,3 mm
ZF.2.1.B.R/L17.EC	71 mm	67,5 mm
ZF.2.1.E.R/L23.EC	77 mm	67,6 mm
ZF.2.1.F.R/L23.EC	77 mm	67,6 mm
ZF.2.1.G.R/L27.EC	81 mm	67 mm
ZF.2.1.H.R/L27.EC	81 mm	68 mm
ZF.2.1.K.R/L27.EC	81 mm	69 mm
ZF.2.1.L.R/L31.EC	85 mm	70,5 mm
ZF.2.2.B.R/L80.EC	104 mm	67,5 mm
ZF.2.2.E.R/L80.EC	104 mm	67,6 mm
ZF.2.2.F.R/L80.EC	104 mm	67,6 mm



VDI-C1/C4 | HSK-A | PSC

	L ₁	S
ZF.2.1.A.R/L17.EC	96 mm	27,0 mm
ZF.2.1.B.R/L17.EC	96 mm	27,2 mm
ZF.2.1.E.R/L23.EC	102 mm	27,3 mm
ZF.2.1.F.R/L23.EC	102 mm	27,3 mm
ZF.2.1.G.R/L27.EC	106 mm	26,7 mm
ZF.2.1.H.R/L27.EC	106 mm	27,7 mm
ZF.2.1.K.R/L27.EC	106 mm	28,7 mm
ZF.2.1.L.R/L31.EC	110 mm	30,2 mm
ZF.2.2.B.R/L80.EC	129 mm	27,2 mm
ZF.2.2.E.R/L80.EC	129 mm	27,3 mm
ZF.2.2.F.R/L80.EC	129 mm	27,3 mm



A

Turning

B

Milling

C

Drilling

D

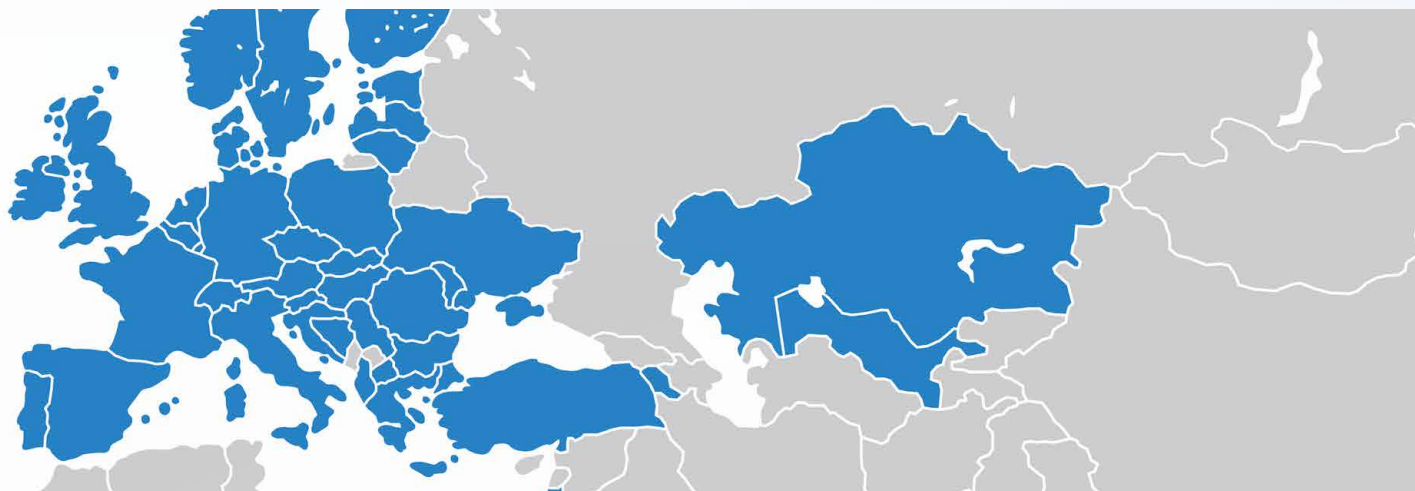
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