

EWS .Varia VXT

The innovative quick-change system for static turning applications



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EWS
Tool Technologies



EWS.Varia VXT

All the benefits at a glance

■ **Optimized stability and damping**

- Double-cone flex system for improved service life and surface quality
- Widely spaced support points for maximum stability and rigidity
- Dual surface fit for reliable torque absorption

■ **Tool change, flexibility and modularity**

- One-handed operation for fast and safe tool change
- Can be used as standard and overhead tool
- Backwards compatible with EWS.Varia VX inserts for conversion to the VXT system Cost-effective due to compatibility with VX basic holders
- Compact tool clamping

■ **Highest precision and repeatability**

- Repeatability
+/- 0.002 mm
- Transmittable torque
VXT3 = 160 Nm
VXT4 = 200 Nm
- Coolant pressure
Max. coolant pressure 80 bar

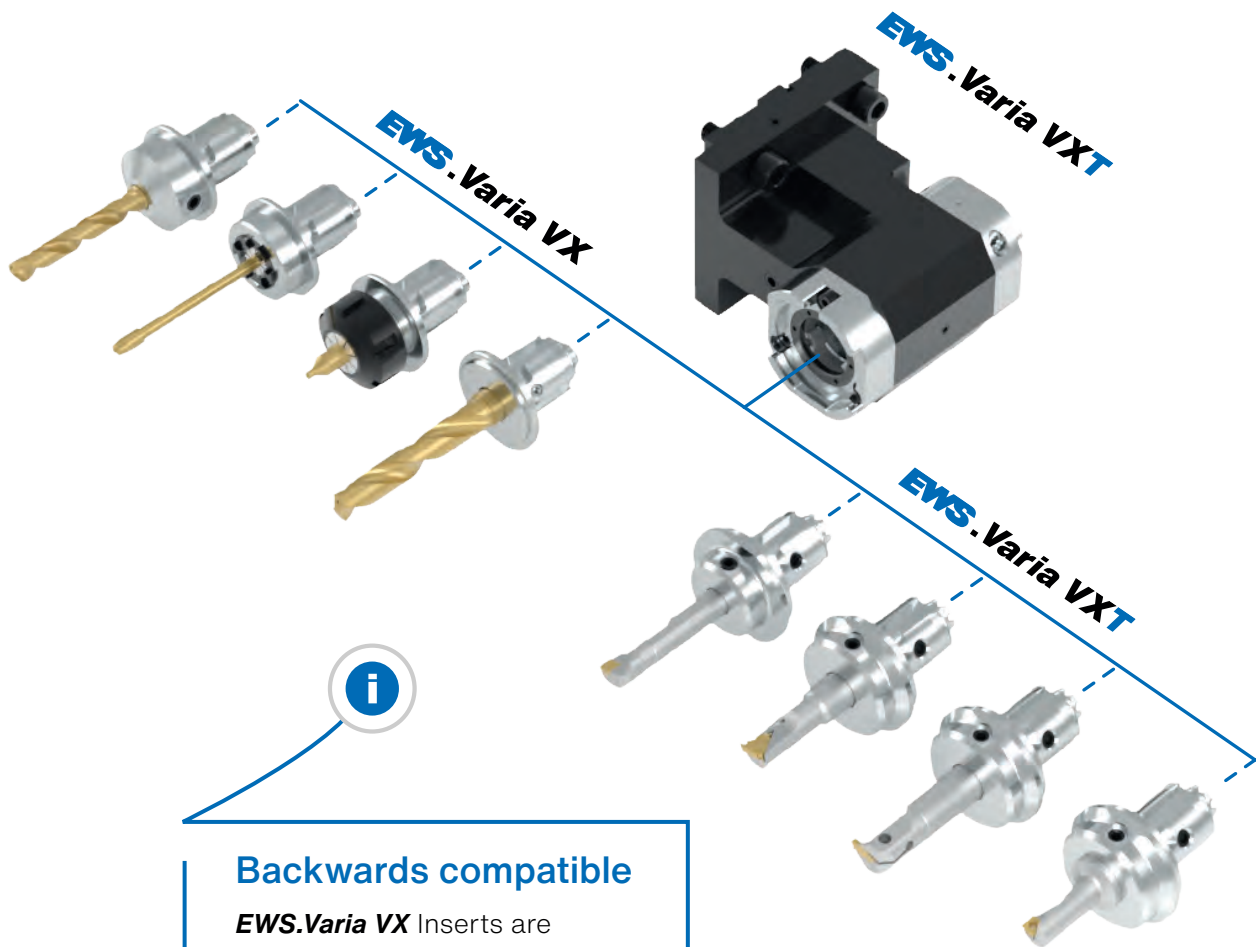


EWS.Varia VXT

The innovative quick-change system for static turning applications.

EWS.Varia VXT - Your key to mastering internal turning

EWS.Varia VXT is the latest addition to our successful EWS Varia range. Developed specifically for static turning applications, this system combines maximum precision, stability and flexibility. Based on the proven EWS.Varia VX system, the new VXT line enables extremely compact tool clamping. Especially when machining towards the turret box, every millimetre of clamping length counts.



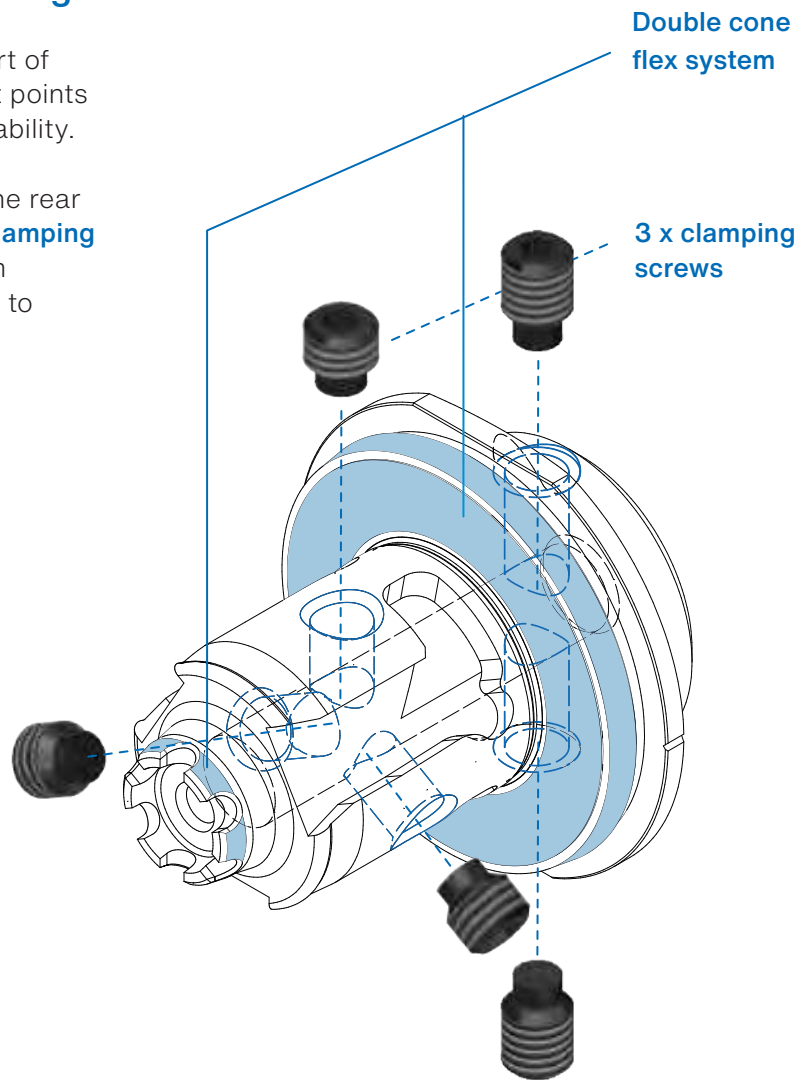
Backwards compatible

EWS.Varia VX Inserts are usable with the new **EWS.Varia VXT** interface.

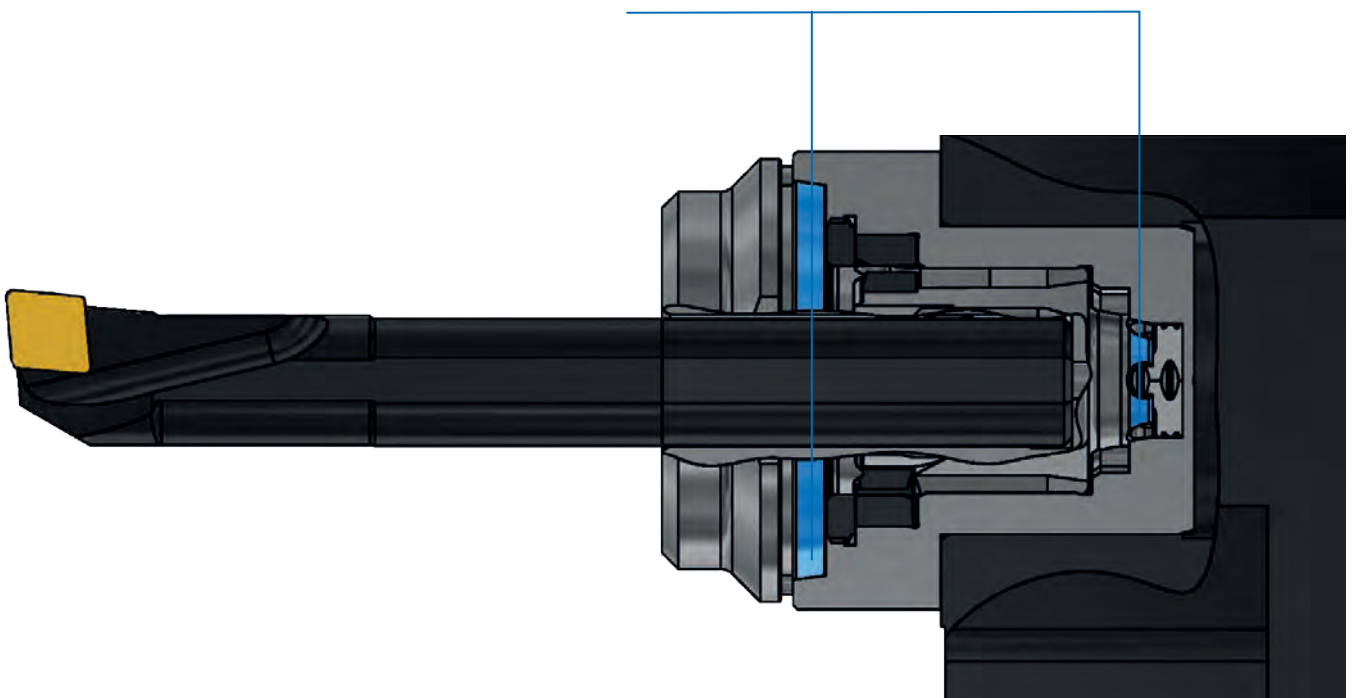
Optimised stability and cushioning

The **double-cone** flex system is at the heart of our innovation. The widely spaced support points ensure maximum rigidity and optimised stability.

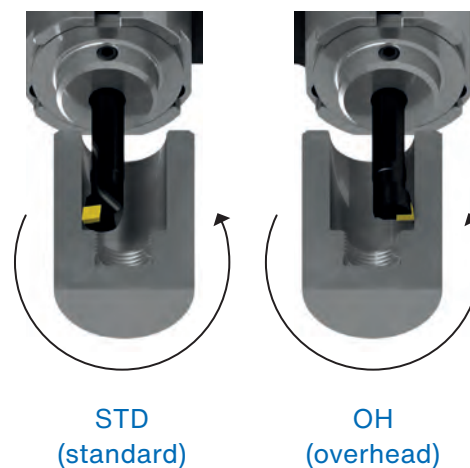
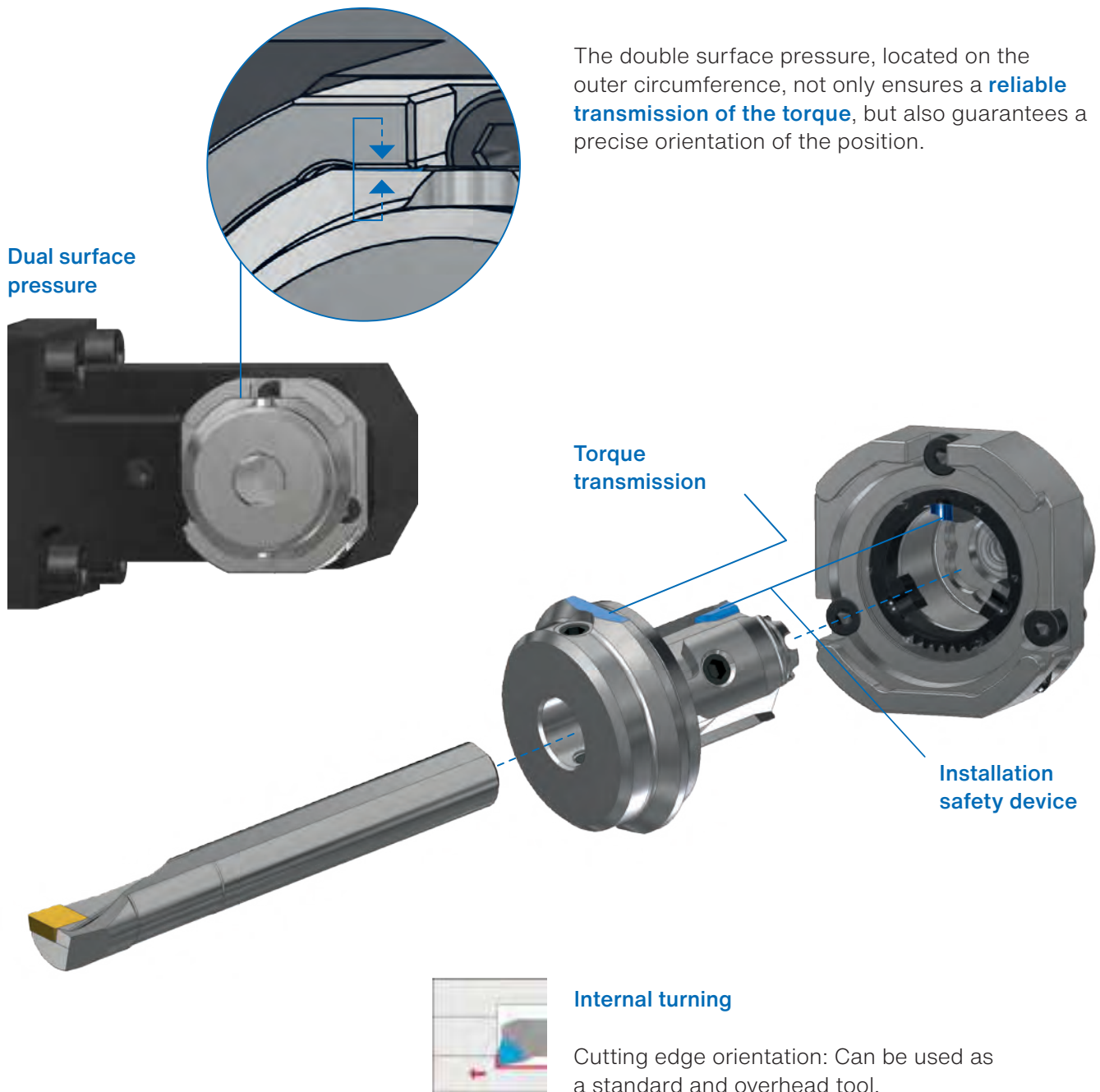
The elastically designed second cone at the rear of the adapter, combined with additional **clamping screws** in the shank area, gives the system excellent damping properties, contributing to improved tool life and surface quality.



Wide-spaced supports for maximum rigidity and stability.



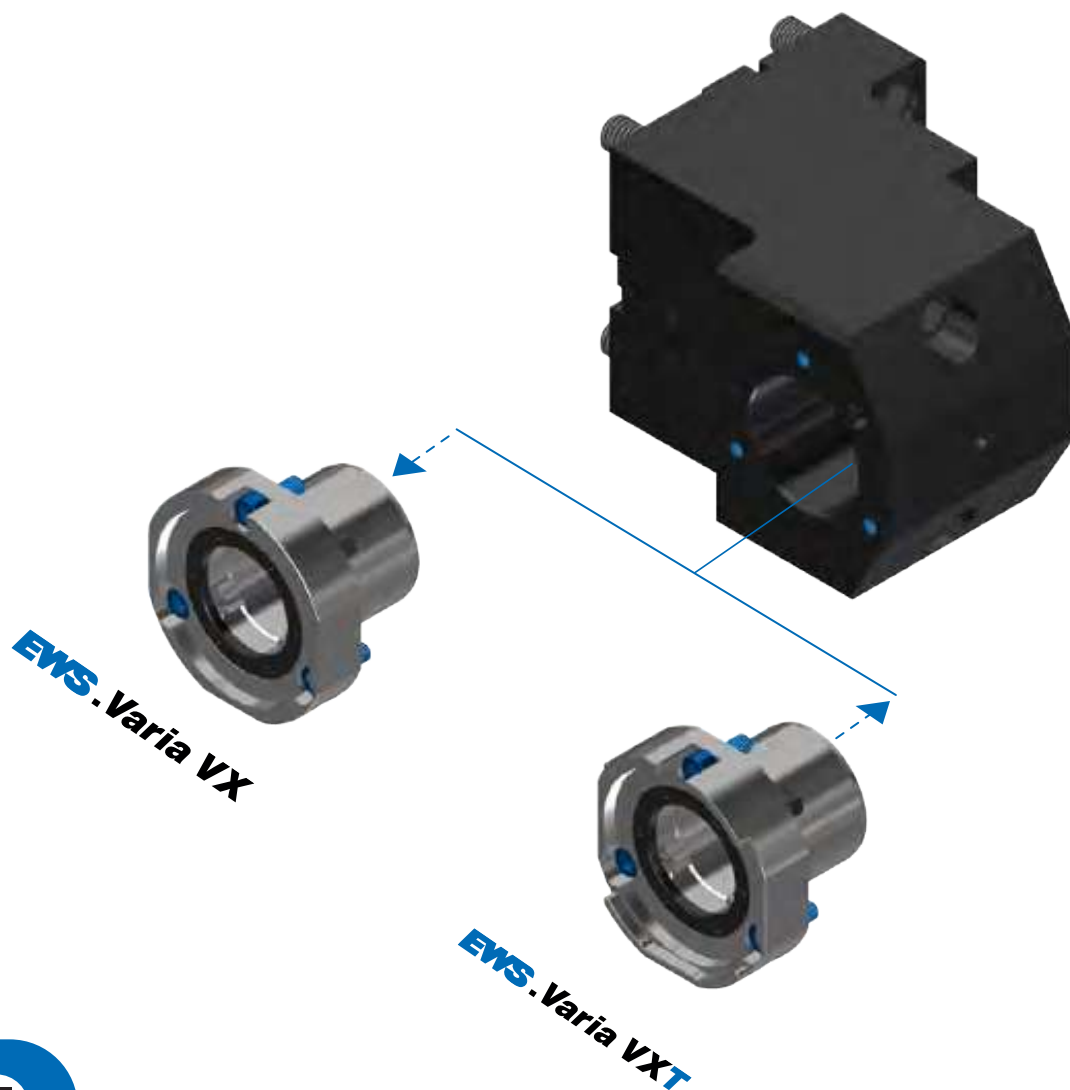
Tool change, flexibility and modularity



Simple and cost-effective entry

For users of the EWS.Varia VX system, we offer a specially developed EWS.Varia VXT insert. This allows existing tool holders to be cost-effectively converted to the EWS.Varia VXT system, ensuring a seamless transition to the latest technology. For maximum cost efficiency and a smooth transition, simply convert your existing VX toolholders to the VXT system. For more information, please refer to the user manual.

VXT3		VXT4	
MNR	Nr.	MNR	Nr.
230946	WE-VXT3-02	232646	WE-VXT4-02



USER
MANUAL

PSC 40

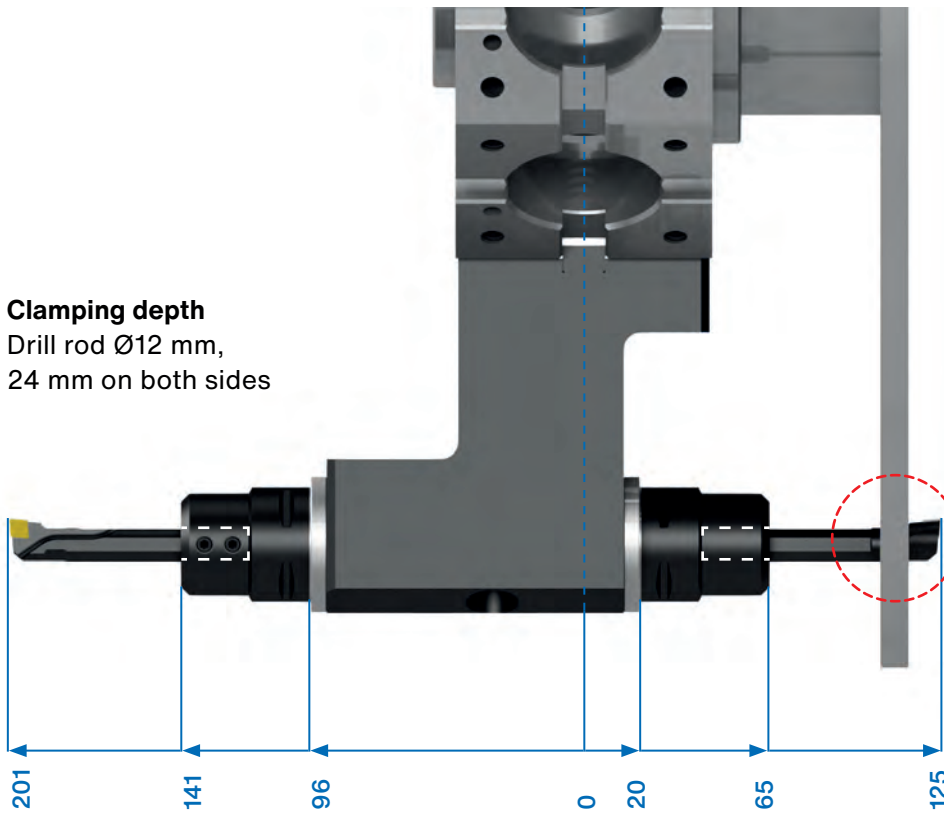
Common PSC solution:

- Unstable due to small clamping depth of the boring bar.
- Space intensive design



Risk of collision

Clamping depth
Drill rod Ø12 mm,
24 mm on both sides

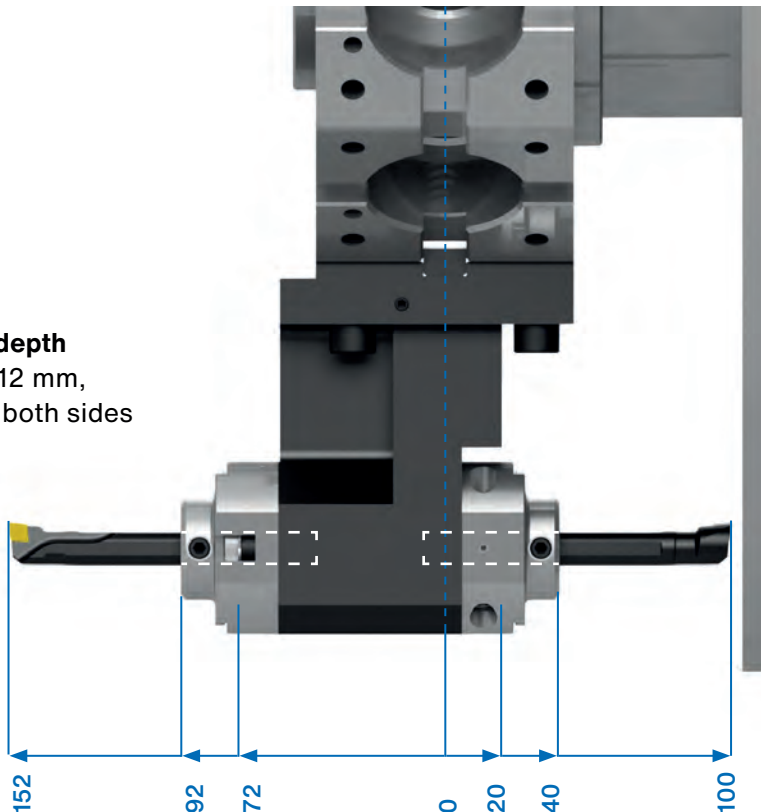


VXT3

Innovative VXT3 solution:

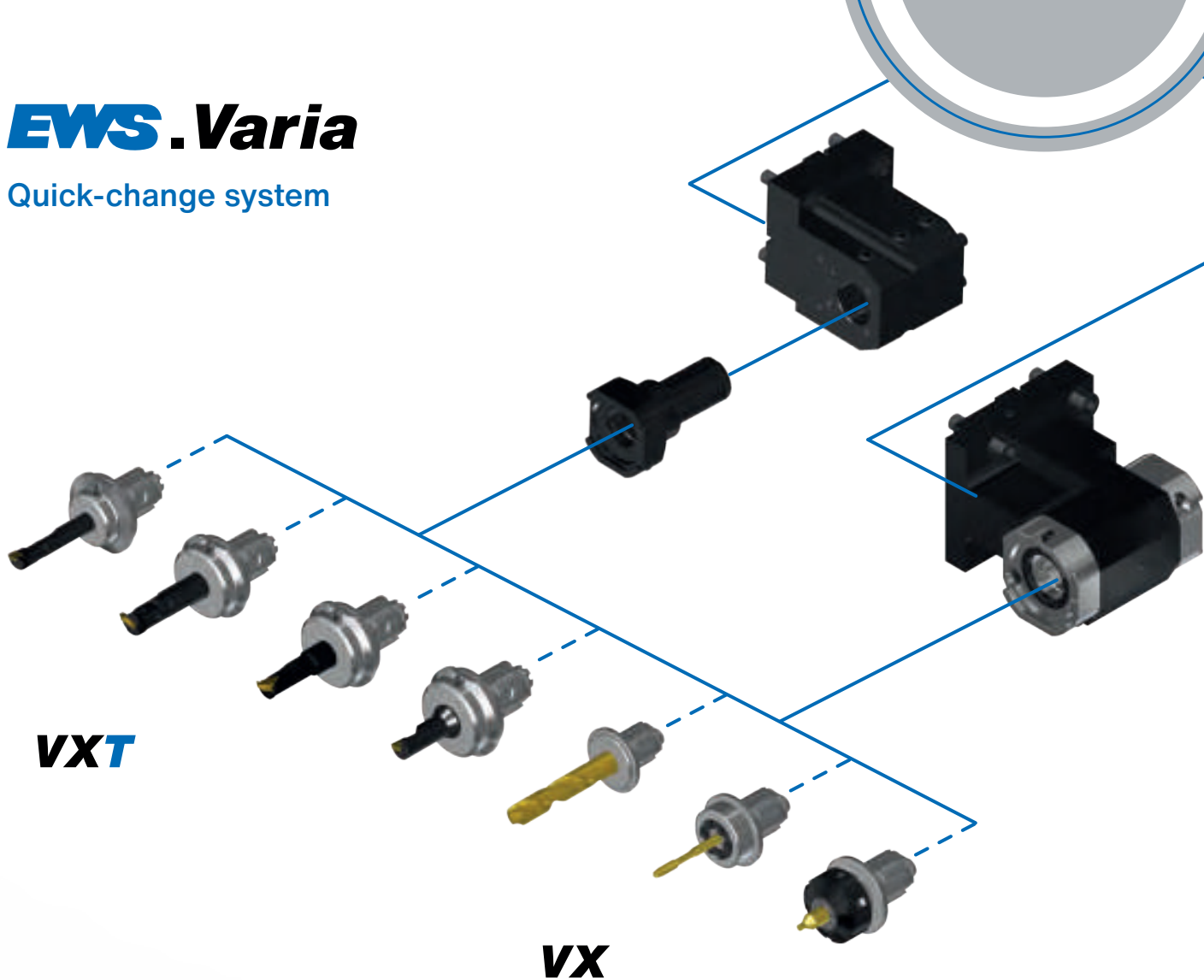
- Stable due to high clamping depth of the boring bar.
- Compact design

Clamping depth
Drill rod Ø12 mm,
50 mm on both sides



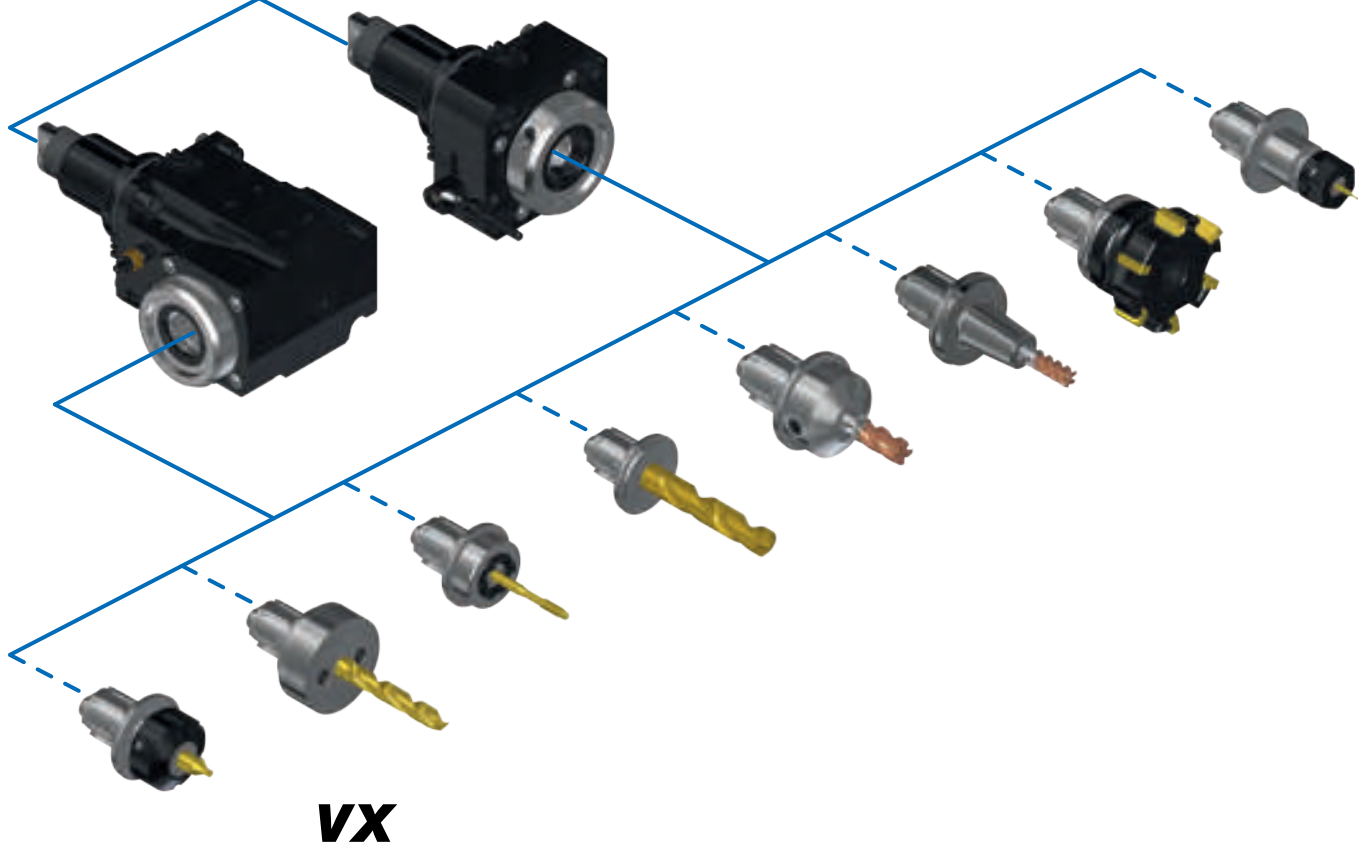
EWS.Varia

Quick-change system



In combination, **EWS.Varia VXT** and **EWS.Varia VX** cover the most frequent machining operations.





EWS .Varia VXT

Internal turning operations

- Roughing
- Finishing
- Grooving
- Thread turning

EWS .Varia VX

Centric drilling

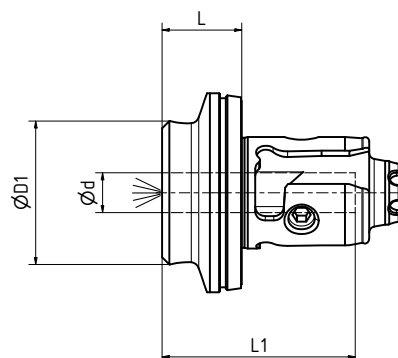
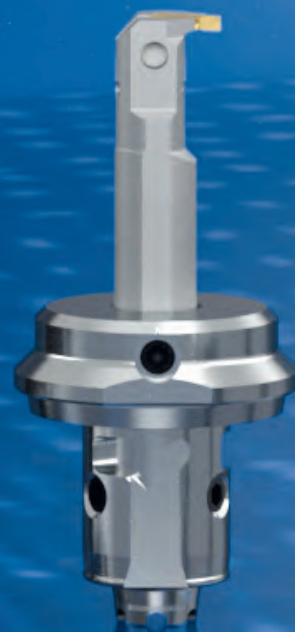
- Tapping/moulding/milling
- Core hole drilling
- Centre drilling
- Countersinking

Axial radial: Drilling/milling operations

- Tapping/moulding/milling
- Core hole drilling
- Rough milling
- spot drilling
- Roughing/finishing milling
- Deburring milling

EWS.Varia VXT

Boring bar inserts



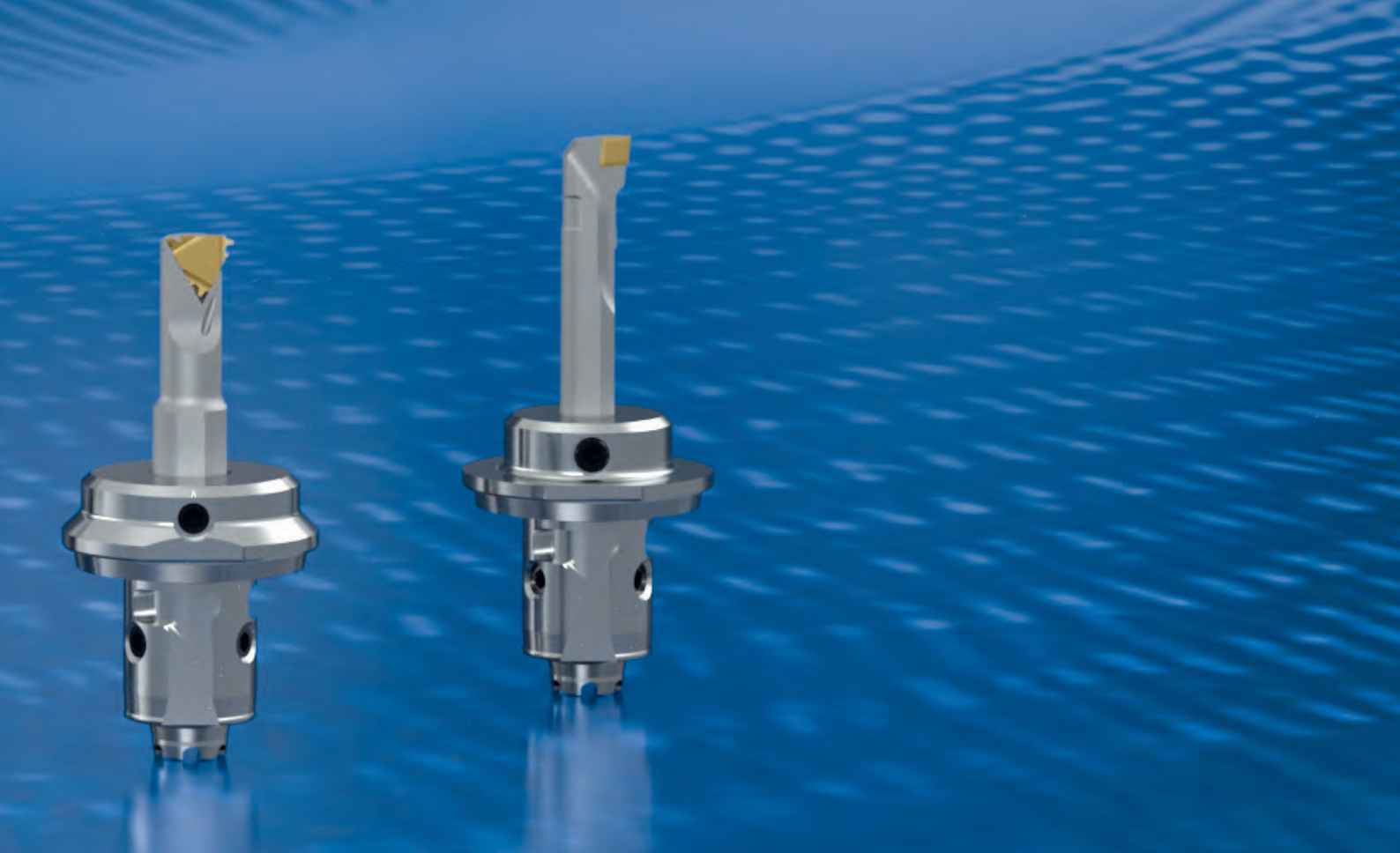
Metric

VXT3

	MNR	Nr.	d	D1	L	L1	IK
	232709	19.VXT306L18	6	32	18	47	✓
	232708	19.VXT308L18	8	32	18	47	✓
	232707	19.VXT310L20	10	36	20	50	✓
	232706	19.VXT312L20	12	36	20	50	✓
	232698	19.VXT316L20	16	46	20	50	✓

VXT4

	MNR	Nr.	d	D1	L	L1	IK
	232715	19.VXT406L18	6	36	18	47	✓
	232714	19.VXT408L18	8	36	18	47	✓
	232713	19.VXT410L20	10	42	20	50	✓
	232712	19.VXT412L20	12	42	20	50	✓
	232711	19.VXT416L20	16	46	20	52	✓
	232710	19.VXT420L23	20	55	23	58	✓



Inch

VXT3

	MNR	Nr.	d	D1	L	L1	IK
	232954	19.VXT306.35L18	1/4"	32	18	47	✓
	232955	19.VXT309.53L20	3/8"	36	20	50	✓
	232956	19.VXT312.7L20	1/2"	36	20	50	✓
	232957	19.VXT315.88L20	5/8"	46	20	50	✓

VXT4

	MNR	Nr.	d	D1	L	L1	IK
	232958	19.VXT406.35L18	1/4"	36	18	47	✓
	232959	19.VXT409.53L20	3/8"	42	20	50	✓
	232961	19.VXT412.7L20	1/2"	42	20	50	✓
	232962	19.VXT415.88L20	5/8"	46	20	52	✓
	232963	19.VXT419.05L23	3/4"	55	23	58	✓

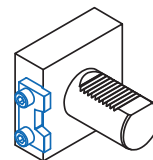
Clamping units for VDI star turrets



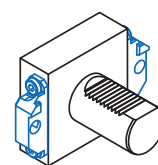
■ one-sided



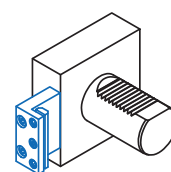
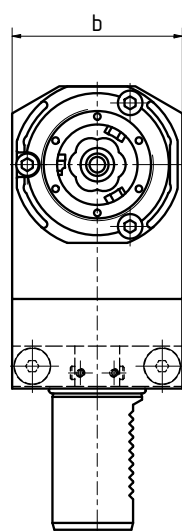
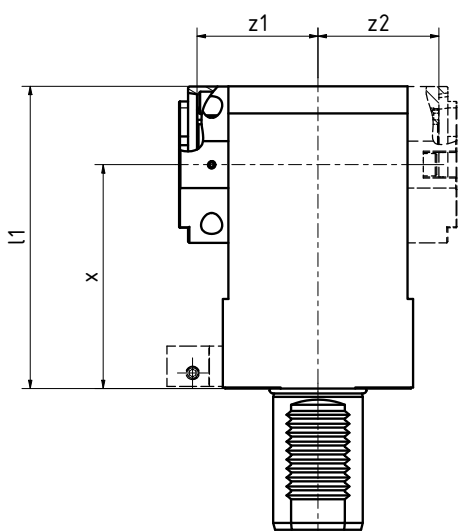
■ Two-sided



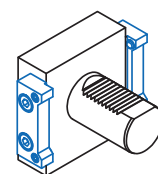
V-Strip



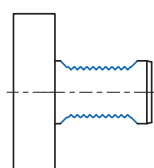
Trifix



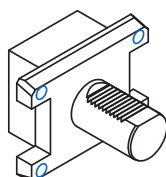
Stop strip,
adjustable



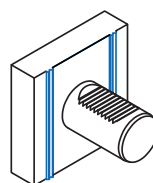
Traub strip



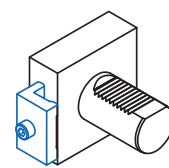
RL



PL



W-toothing



Terminal strip

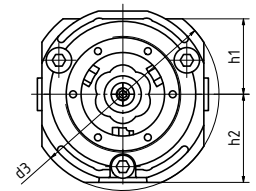
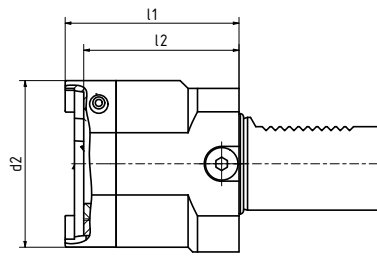
VXT3

MNR	Nr.	Ø-shank	Tool-holder	Alignment system	x	z1	z2	l1	b	EK/IK
232612	19.25VXT3G200RLWZ0	VDI25-RL	one-sided	W-Interlocking	70	0	-	100	60	✓
232617	17.25VXT3DG200RLW	VDI25-RL	two-sided	W-Interlocking	70	47	47	100	60	✓
232597	19.25VXT3G200RLVZ0	VDI25-RL	one-sided	V-strip	70	0	-	100	60	✓
232593	17.25VXT3MFT	VDI25	one-sided	Pin (block)	75	47	-	105	60	✓
232595	19.25VXT3MFTRLZ0	VDI25-RL	one-sided	Pin (block)	75	0	-	105	60	✓
232596	17.25VXT3DMFT	VDI25	two-sided	Pin (block)	75	47	47	105	60	✓
232598	19.25VXT3E332RLZ0	VDI25-RL	one-sided	Terminal strip	75	0	-	105	60	✓
232599	17.25VXT3DE332	VDI25	two-sided	Terminal strip	75	47	47	105	60	✓
232600	19.30VXT3CTXRLZ0	VDI30-RL	one-sided	Pin (block)	85	0	-	115	64	✓
232613	19.30VXT3G300RLWZ0	VDI30-RL	one-sided	W-Interlocking	90	0	-	120	78	✓
232618	17.30VXT3DG300RLW	VDI30-RL	two-sided	W-Interlocking	90	47	47	120	78	✓
232605	19.30VXT3TNX65RLZ0	VDI30-RL	one-sided	Traub strip	90	0	-	120	70	✓
232601	19.30VXT3LCTXRLZ0	VDI30-RL	one-sided	Pin (block)	100	0	-	130	64	✓
232873	19.30VXT3LCTXRLTFLZ0	VDI30-RL	one-sided	Trifix	100	0	-	130	64	✓
232603	17.30VXT3LDCTX	VDI30	two-sided	Pin (block)	100	47	47	130	64	✓
232604	17.30VXT3LDCTXTF	VDI30	two-sided	Trifix	100	47	47	130	64	✓
232606	17.30VXT3LDE365A35	VDI30	two-sided	Stop bar, adjustable	120	47	47	150	64	✓

VXT4

MNR	Nr.	Ø-shank	Tool-holder	Alignment system	x	z1	z2	l1	b	EK/IK
232607	17.40VXT4DCTX	VDI40	two-sided	Pin (block)	100	54	54	135	76	✓
232608	17.40VXT4DCTXTF	VDI40	two-sided	Trifix	100	54	54	135	76	✓
232616	19.40VXT4G400RLWZ12	VDI40-RL	one-sided	W-Interlocking	110	12	-	145	80	✓
232619	17.40VXT4DG400RLW	VDI40-RL	two-sided	W-Interlocking	110	54	54	145	80	✓
232876	19.40VXT4LCTXRLTFLZ0	VDI40-RL	one-sided	Trifix	120	0	-	155	76	✓
232609	17.40VXT4LDCTX	VDI40	two-sided	Pin (block)	120	54	54	155	76	✓
232610	17.40VXT4LDCTXTF	VDI40	two-sided	Trifix	120	54	54	155	76	✓
232611	17.40VXT4LDCTXTF-PL	VDI40-PL	two-sided	Trifix	120	54	54	155	90	✓
232620	19.40VXT4SQ15X135	VDI40-30° rotated	one-sided	Pin eccentric, adjustable	135	55	-	170	76	✓
232623	17.40VXT4DSQ15X135	VDI40-30° rotated	two-sided	Pin eccentric, adjustable	135	74	34	170	76	✓

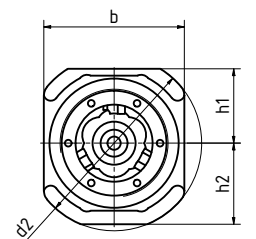
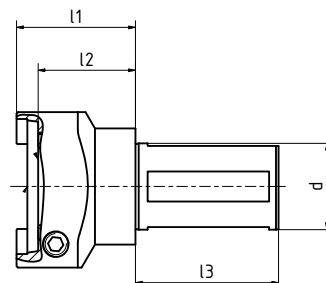
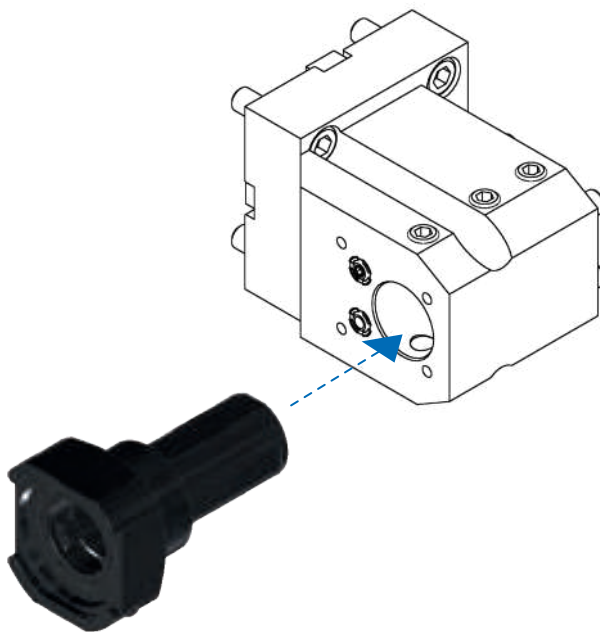
Clamping units for VDI disk turrets



MNR	Nr.	Ø-shank	Interface size	d2	d3	h1	h2	l1	l2	EK/IK
232590	19.25VXT3	VDI25	VXT3	64,8	56	30	30	68	60	✓
232591	19.30VXT3	VDI30	VXT3	68	56	30	30	68	60	✓
232592	19.40VXT4	VDI40	VXT4	83	69,8	32,5	38	75	67	✓

ZYL-Adapter *EWS Varia VXT*

for use in boring bar holders



MNR	Nr.	Ø-shank	Interface size	d2	d3	h1	h2	l1	l2	EK/IK
232583	19.32VXT3-ZYL	32	64,8	52	27,5	30	44	36	53	✓
234266	19.40VXT3-ZYL	40	64,8	52	27,5	30	24	16	67	✓
232584	19.40VXT4-ZYL	40	74,8	67	35	35	50	42	67	✓

Clamping units for BMT turrets



E-SHOP

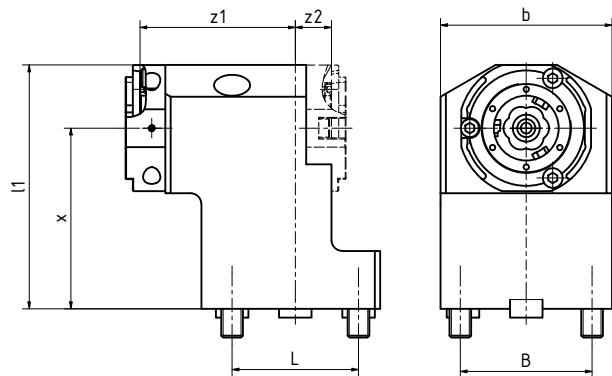
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■ One-sided

■ Two-sided



VXT3

MNR	Nr.	BMT-size	Drilling pattern	Tool-holder	x	z1	z2	l1	b	EK/IK
232636	19.BMTVXT3NZZ0X95	BMT40 DMG Mori	70 x 62	one-sided	95	0	-	125	76,8	✓
232637	17.BMTVXT3DNZX95	BMT40 DMG Mori	70 x 62	two-sided	95	65	65	125	76,8	✓
232664	19.BMTVXT3BMT45X65	BMT45	58 x 58	one-sided	65	52	-	95	75	✓
232633	19.BMTVXT3BMT45X85	BMT45	58 x 58	one-sided	85	52	-	115	75	✓
232635	17.BMTVXT3DBMT45X85	BMT45	58 x 58	two-sided	85	72	20	115	75	✓
232644	17.BMTVXT3TW10	BMT55C	50 x 60	one-sided	65	54	-	95	80	✓
232645	17.BMTVXT3DTW10X70	BMT55C	50 x 60	two-sided	70	54	54	100	80	✓
232629	17.BMTVXT3BMT55X70	BMT55	64 x 64	one-sided	70	36	-	100	85	✓
232630	17.BMTVXT3BMT55X85	BMT55	64 x 64	one-sided	85	36	-	115	85	✓
234774	17.BMTVXT3DBMT55X85	BMT55	64 x 64	two-sided	85	72	20	115	85	✓
232667	17.BMTVXT3BMT55X100	BMT55	64 x 64	one-sided	100	36	-	100	85	✓
232632	17.BMTVXT3DBMT55X100	BMT55	64 x 64	two-sided	100	72	20	130	85	✓

VXT4

MNR	Nr.	BMT-size	Drilling pattern	Tool-holder	x	z1	z2	l1	b	EK/IK
232639	19.BMTVXT4LB2000	BMT60B Okuma	65 x 73	one-sided	90	71,5	-	125	90	✓
232642	17.BMTVXT4DLB2000	BMT60B Okuma	65 x 73	two-sided	90	80,5	27,5	125	90	✓
232625	19.BMTVXT4BMT65X72	BMT65	70 x 73	one-sided	72	65	-	107	94	✓
232627	19.BMTVXT4BMT65X100	BMT65	70 x 73	one-sided	100	65	-	135	94	✓
232628	17.BMTVXT4DBMT65X100	BMT65	70 x 73	two-sided	100	86	20	135	94	✓
232638	19.BMTVXT4QSM200X85	BMT68 Mazak	110 x 68	one-sided	85	64	-	120	84	✓

EWS Group

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