VIBROCUT

VibroCut oscillate

Improves your manufacturing processes
and increases the efficiency of your production!

Oscillation-assisted turning - VibroCut *oscillate*

Product line - VibroCut *oscillate*

Innovative, retrofittable tool holders:

- Driven with live tool of the turret
- Rigid bearing of the tool holder
- Highest oscillation parameters

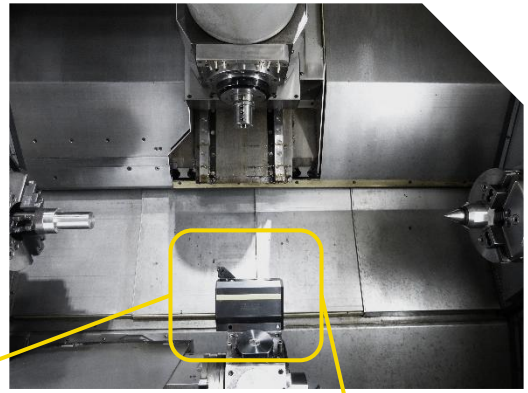
Performance parameters:

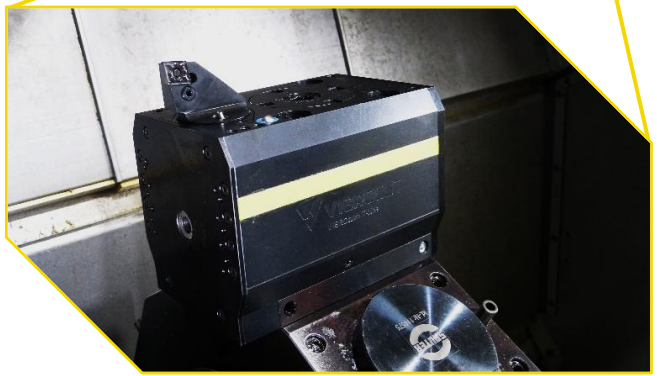
Frequency:	f_{vib} = 1...100 Hz
Stroke (adjustable):	Â = 0...0.6 mm
Process forces:	$f_{c,max}$ = 9 kN

Unique position:

- Unique performance
- Gentle on the machine compared to control cycles
- Reliable and adjustable chip breaking
- Control-independent

➢ Flexible retrofitting independent of the machine manufacturer!





Oscillating system for turret axle

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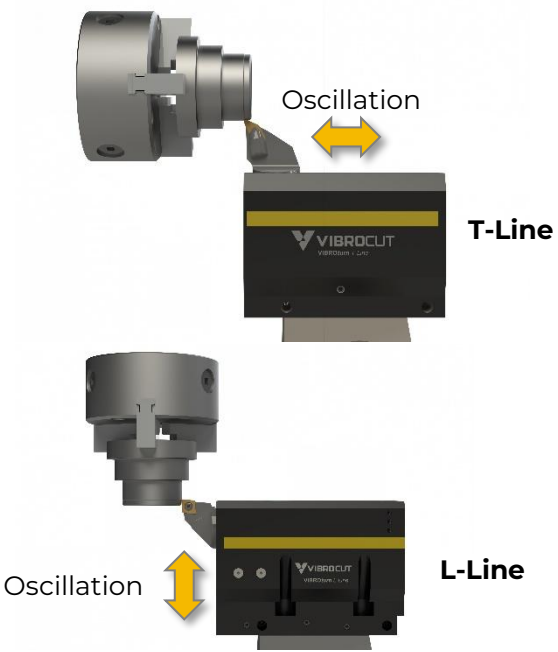
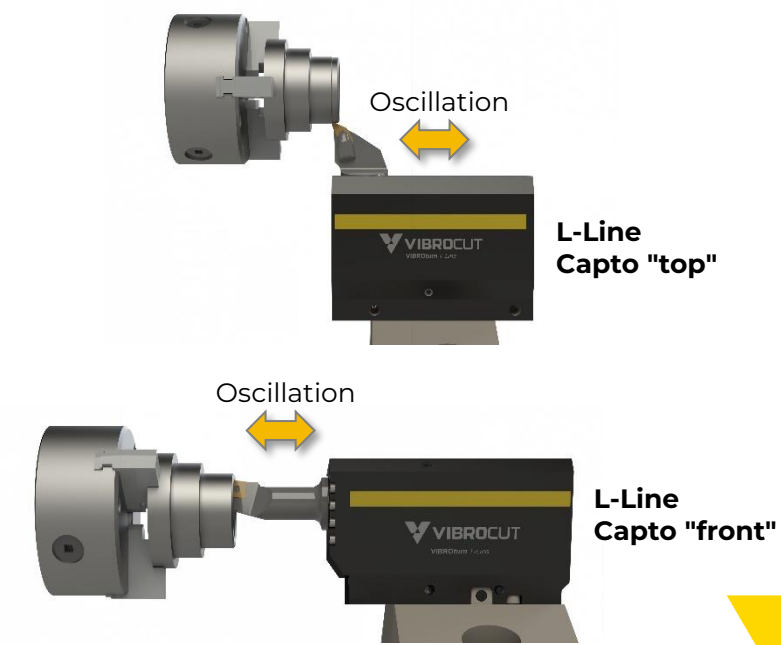
VibroCut *oscillate - Tool holder variants*

Different directions of movement



Different tool orientations



VibroCut *oscillate - Tool holder variants*

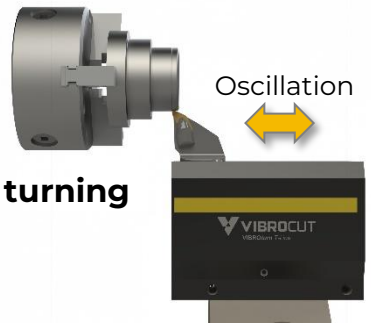
Various machine interfaces

Various tools and technologies

Oscillation-assisted turning - VibroCut *oscillate*

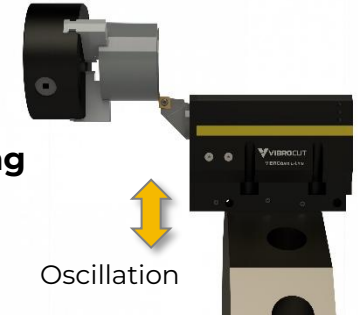
VibroCut *oscillate - Process variants*

External longitudinal turning

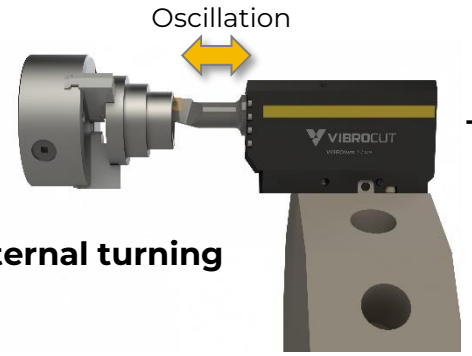


T-Line

Face turning

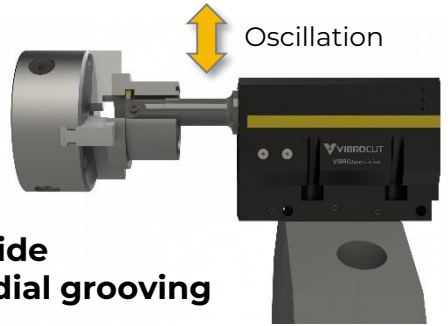


L-Line



Internal turning

T-Line



Inside Radial grooving

L-Line

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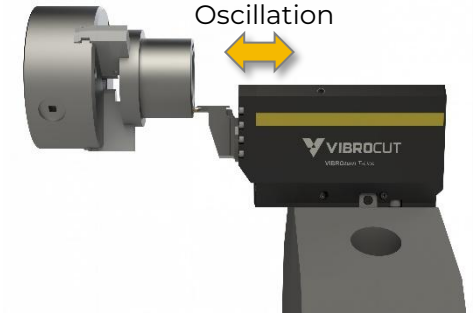
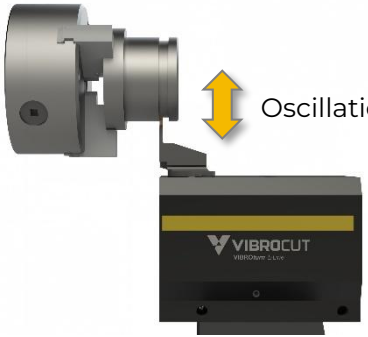
VibroCut *oscillate - Process variants*

Axial grooving

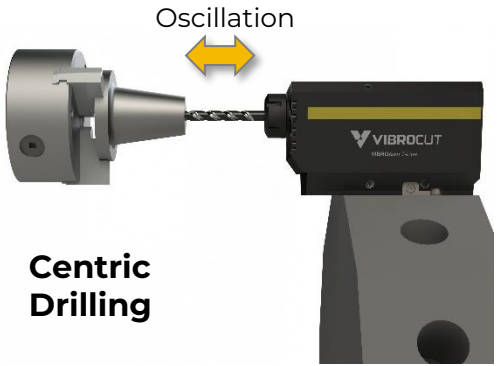


T-Line

Radial grooving



L-Line



Centric Drilling

T-Line

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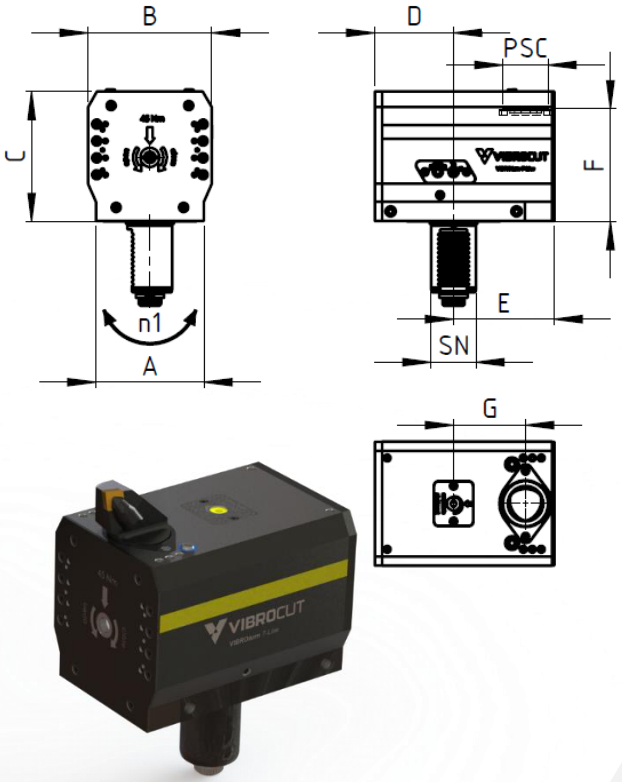
T-LINE

Orthogonal oscillation direction towards the driving axle

Dimensions		Compact	Standard	Heavy
	A	60...75*	96	110
	B	85...90	110	140
	C	90	115	145
	D	65	70	75...80
	E	70	90	119
	F	75	100	128
	G	50	64	75
Interface				
Machine interface**		VDI 25 VDI 30 BMT 45	VDI 40 VDI 50 BMT 55 BMT 65	VDI 60 VDI 70 BMT 65 BMT 75
Couplings**		Double d (DIN 1809,...), Gear (DIN 5480, DIN 5482,...)		
Tool interface**		PSC 32	PSC 40	PSC 63
Specific information				
Maximum frequency		100 Hz	100 Hz	60 Hz
Maximum Amplitude		0,4 mm	0,6 mm	0,6 mm
Coolant pressure (IKZ+AKZ)		20 bar	20 bar	20 bar
Process forces		5 kN	9 kN	12 kN



* depending on machine interface
** Special versions on request

Oscillation-assisted turning - VibroCut *oscillate*

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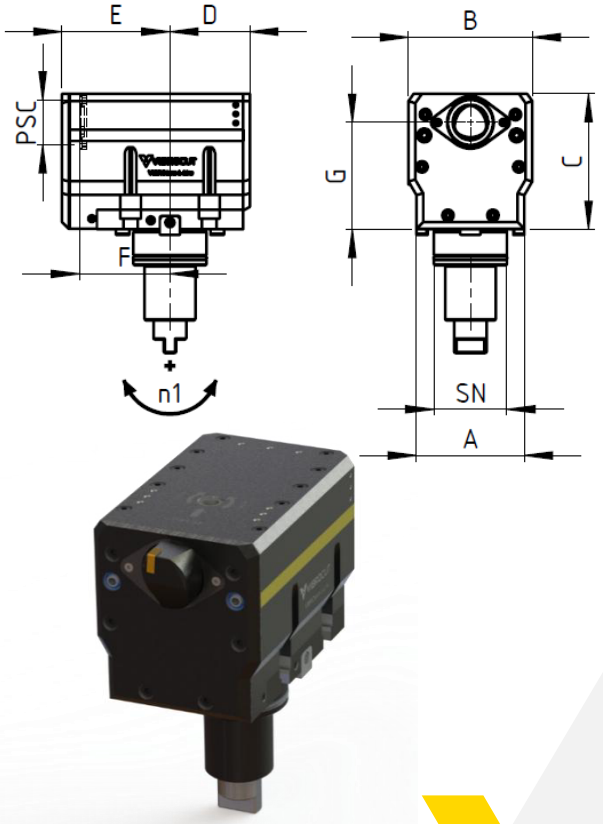
Lateral oscillation direction towards the driving axle

Dimensions		Compact	Standard	Heavy
	A	60-75*	96	110
	B	90	110	140
	C	90	120	154
	D	65	70	75
	E	95	95	123
	F	80	81,5	106
	G	69	95	110
Interfaces				
Machine interface**		VDI 25 VDI 30 BMT 45	VDI 40 VDI 50 BMT 55 BMT 65	VDI 60 VDI 70 BMT 65 BMT 75
Couplings**		Double d (DIN 1809,...), Gear (DIN 5480, DIN 5482,...)		
Tool interface**		PSC 32	PSC 40	PSC 63
Specific information				
Maximum frequency		100 Hz	100 Hz	60 Hz
Maximum Amplitude		0,4 mm	0,6 mm	0,6 mm
Coolant pressure (IKZ+AKZ)		20 bar	20 bar	20 bar
Process forces		5 kN	9 kN	12 kN



* depending on machine interface
** Special versions on request

VibroCut – Hybdrid machining

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"VibroCut combines technique and technology for hybrid machining"