



Zirkonium - open to anything

Vertical turning for individual parts and series in alternation

The Zirkonium

With the Inventhor Zirkonium, we are exploring new avenues in turning. For the first time, it is possible to turn single parts on a vertical lathe - where a horizontal lathe would normally be used - in order to then immediately produce series of small or large quantities. It has an 'open automation interface', and different material feeds are available.

The operating concept

allows the experienced lathe operator to use the shop-turn operation for setting up and completing single parts with conventional and user-friendly programming. Operating the chuck makes loading and unloading of the machine easy, via the usual foot switch in manual mode, or using the optional semi-automated feed of workpieces with the loading axle.

Different and exchangeable

automation solutions are available for series processing. Various tool-changing carriages also facilitate extended unmanned shifts. With the interface, the customer is able to work out their own solutions for handling workpieces.



The innovation

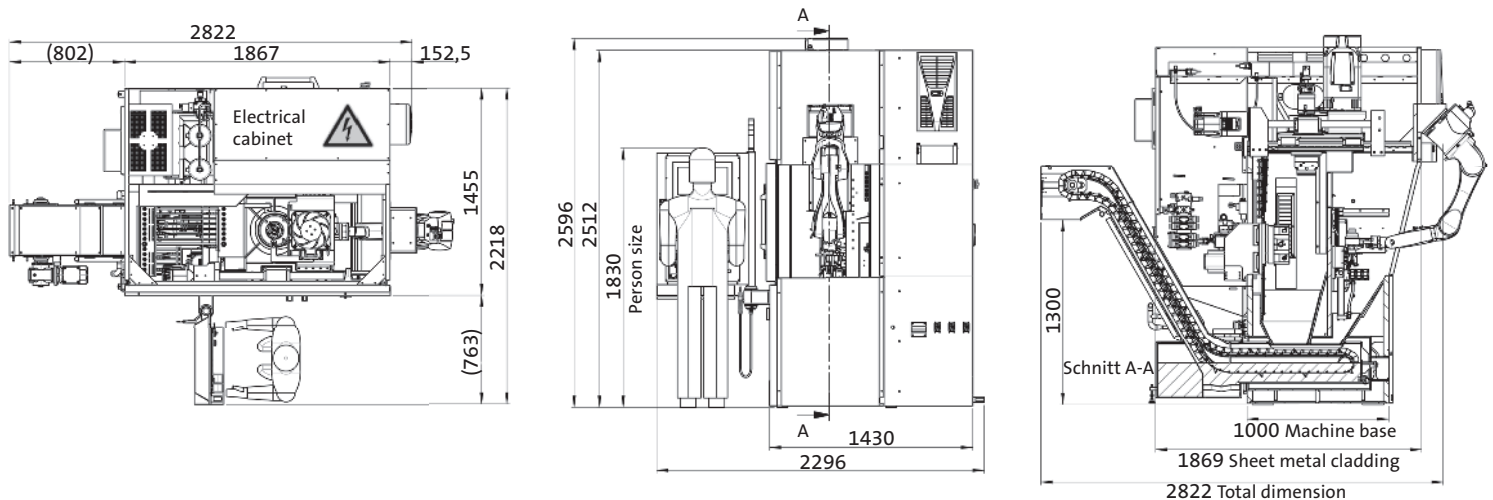
The open interface to automation: The novel open interface for a series machine enables the user to install his own automation and align it with the machine. This way, the machine can also easily be connected to any logistics system at a customer's factory. It thus becomes possible for resourceful lathe operators or machine builders to design their own production processes with their own automation.



technical data

Work area	Max. chuck diameter	mm	Ø 210
	Max. Swing diameter with automation	mm	Ø 150
	Change of work piece in working area	sec.	≈ 5
Main spindles	Spindle flange according to DIN ISO 702-1		A6
	Spindle bearing, front	mm	Ø 140
	Rotational speed with transmission 1:3 of intermediate gearbox	U/min	0–3000
Main drives	AC asynchronous motor 25%/100% duty cycle	kW	22,5 / 15
	Full output w/ spindle speed with transmission 1:3 of intermediate gearbox	U/min	667
	Torque 25%/100% duty cycle with transmission 1:3 at	Nm	280 / 195
Feed drives	Rapid feed X, Z	m/min	30, 30
	Ball screw spindles in X, Z	mm	Ø 50, 40
	Roller guide rails in X, Z	mm	45, 30
Disc-type tool turret	Cylinder housing DIN ISO 10889		8-fold
	Shank diameter		VDI 30
Dimensions and weights	Width / width with chip conveyor	mm	2.019 / 2.822
	Depth (without automation)	mm	1.455
	Height	mm	2.546
	Weight	kg	approx. 4.500

Errors excepted



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TURNING!

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Presented by:

The experience of turning.