



SP2-D

SP2-D

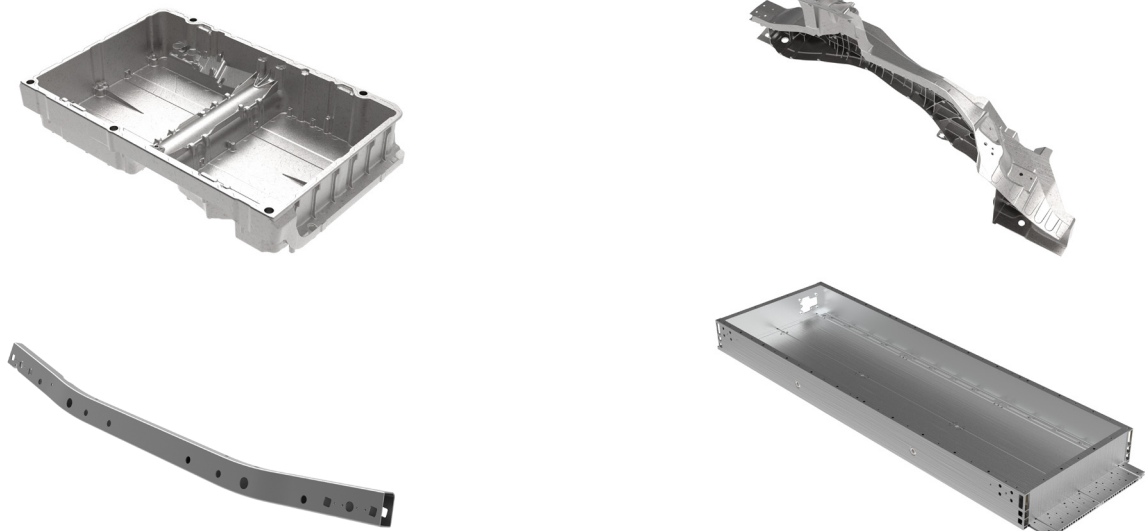
The flexible standard solution for the largest components

The ANGER SP2-D machine is a flexible machining center for 4- or 5-axis double machining of large-volume components. The large working area allows maximum flexibility in process design and machining.

YOUR ADVANTAGES

- Most efficient processing - two independent columns
- Maximum flexibility - very extensive hydraulics and pneumatics
- Largest Space - over 3,2m in X-direction and \varnothing 1,2m interference circle

TYPICAL PARTS

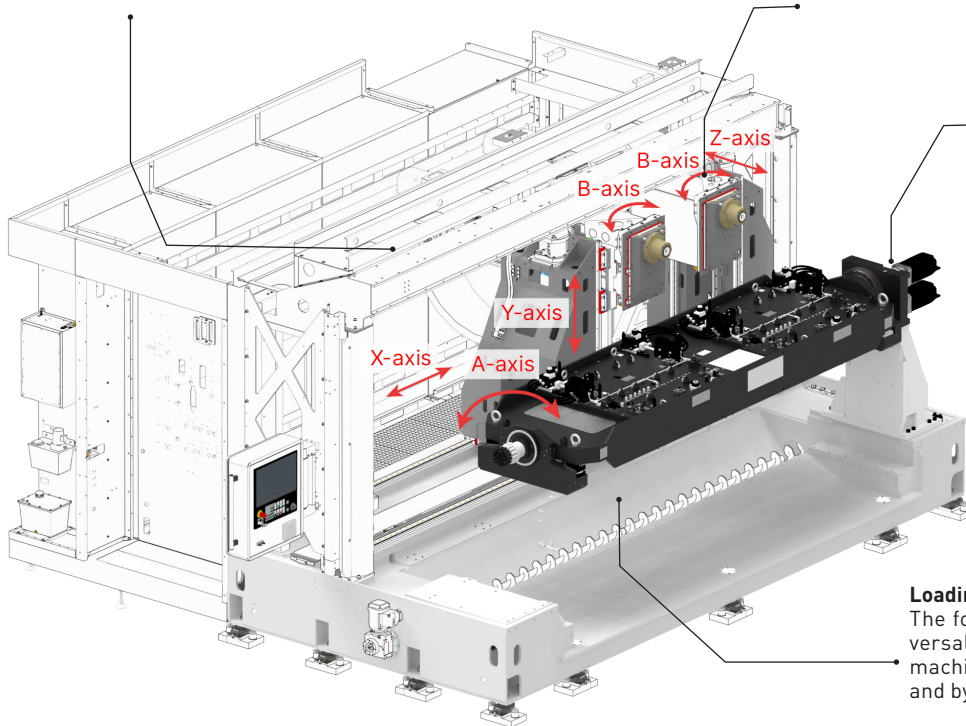


Tool changer

2 disk magazines, each with 29 tool slots, provide the required tools for optimum and fast machining. Thanks to the very simple design, the magazines are maintenance-free. The maximum tool length is 350 mm.

Independent columns

The proven, independent spindle systems on this machine also enable both spindles to work simultaneously on a very long component, parallel processing on both clamping bridges or simultaneous processing of two different components.



Large machining bridge

With a length of 3200 mm and an interference circle of $\varnothing 1200$ mm, the dimensions of this machining bridge are suitable for a large number of components. If necessary, machining can be carried out through the bridge, allowing 6-sided machining to be realized.

Loading process

The focus of this machine is on its universal applicability. This means that the machine can be loaded both manually and by robot.

Number of axes	Number of axes	4 (5)	axes
Spindles	Number of spindles	2	qty
	Spindle distance	variabel	mm
Working range	X-Axis	3200	mm
	Y-Axis	915	mm
	Z-Axis	630	mm
Maximum part size	X/Y/Z	3600/ $\varnothing 1200$	mm
Feed	Acceleration (X/Y/Z)	5/5/10	m/s ²
	max. speed (X/Y/Z)	90/60/60	m/min
Accuracy	Repeatability according to VDI 3441/2617	0,002	mm
Spindle	Speed	0-18000	rpm
	Power (S1/S6)	30/50	kW
	Torque (S1/S6)	35/60	Nm
Tool magazine	Tool holder	HSK-A 63	
	Tool capacity	2 x 29 (2 x 41, 2 x 61)	qty
	max. tool diameter	95 (125) (80, 200)	mm
	Tool length	350	mm
	Tool weight	12	kg
	Chip-to-chip time	4,5	s
Weight / dimensions	Weight	23000	kg
	Dimensions (LxWxH)	5000/5300/3250	mm
Connected load	Operating Voltage	3 x 400	Volt
	Total connected load	110	kW
NC control	Siemens	Sinumerik 840 D sl	