

# 12 Series

## Process advantages

	FZ 12	DZ 12
Tool changer	Chain magazine	Chain magazine
Travel X - Y - Z	550 - 400 - 400 mm	450 - 270 - 310 mm
Chip-to-chip time	2.5 s	2.6 s
Number of milling spindles	1	2
Spindle distance		250 mm
Milling spindle speed max.	30,000 rpm	24,000 rpm
Milling spindle torque max.	110 Nm	59 Nm
Tool taper	HSK-A40 HSK-A50 HSK-A63	HSK-A50 HSK-A63
Number of tools max.	177	2 x 104
Tool diameter max.	85 mm	85 mm
Tool diameter 2 max.	125 mm	100
Tool length max.	250 mm	250 mm
Tool weight max.	5.0 kg	4.0 kg
Rapid feed X - Y - Z	75 - 75 - 75 m/min	75 - 75 - 75 m/min
Axis acceleration X - Y - Z	10 - 15 - 20 m/s <sup>2</sup>	10 - 15 - 15 m/s <sup>2</sup>

