

## Multicut Series



MULTICUT 500 is available in two kinematic variants:

- S - version with the right spindle
- T - version with the tailstock

The multi-operational turning-milling centers combine the features of turning and milling machines in a single universal machine which has capability to machine complex parts using more technologies (turning, threading, recessing, drilling, boring, milling, cam milling, gear hobbing, grinding and measuring). The machines are equipped with a B-axis as standard which allows an extra-axial drilling and 5-axis milling. The MULTICUT 500 S (with the right spindle) can do a full part machining on both sides.



	500iS	500iT
Maximal turning diameter (turret vertically / across 45°)	27"	27"
Maximal milled profile	19.1" x 19.1"	19.1" x 19.1"
Maximal machining length	11.5"	11.5"
Maximal weight of work-piece chuck/chuck + center (max. spindle speed 300 rpm)	1760 / 3520 lbs	1760 / 4620 lbs
<b>Work-piece spindles</b>	<b>S1 and S2</b>	<b>S1</b>
Spindle nose S1 and S2 (DIN55026)	A8	A8
Maximal diameter by bar machining	3.7"	3.7"
Output of spindle motor S1 and S2 (S1/S6 - 40%)	79 / 99 hp	79 / 99 hp
Spindle torque S1 and S2 (S1 / S6 - 40%)	560 / 737 ft lbs	560 / 737 ft lbs
Maximal spindle speed	3 500 rpm	3 500 rpm
<b>C-axis of work-piece spindle</b>	<b>C1 and C2</b>	<b>C1</b>
Maximal torque	560 Ft lbs	
<b>Tool spindle</b>	<b>S3</b>	
Clamping tool taper	HSK - A63 or Capto C6	
Spindle output S1 / S6 - 40%AD	17 / 29 hp	
Maximal torque S1 / S6 - 40%AD	44 / 73 ft lbs	
Maximal spindle speed	12 000 rpm	

<b>B-axis of tool spindle</b>	<b>B</b>	
Maximal turning angle	-1.142857143	
Maximal torque S1 / S6 - 40%AD	329 / 626 ft lbs	
Maximal torque over brake	4425 ft lbs	
Maximal B-axis speed	55 rpm	
<b>Axes X1 / Y1 / Z1</b>	<b>X1 / Y1 / Z1</b>	
Rapid traverse in the axes X1/Y1/Z1	1965 / 1572 / 1965 ipm	
Working travel X1/Y1/Z1	25.1" / 14.5" / 63"	
<b>Accuracy of repeatability as per ?SN ISO 230-2</b>	0.0003"	
Z1 axis, direct measuring	0.00015"	
X1 axis, direct measuring	0.00015"	
Y1 axis, direct measuring	0.0005"	
C1 axis, left spindle	0,005	
C2 axis, right spindle	0,005	
<b>Automatic Tool Changer</b>	81	
Number of tools	81	
Maximal diameter of the tool	90 / 150, 3.5 / 5.9	
- adjacent position occupied/free		
Maximal length of the tool	13.7"	
Automatic tool exchange time (tool - tool)	17.6 lbs	
Automatic tool exchange time (tool - tool)	3 sec	
Number of the tools (25x25) in the holder	1 - 4	
<b>Tailstock</b>		
Taper Morse	-	Mo6
Sleeve travel	-	7"
Range of thrust	-	719 - 6429 lbf