

# Double spindle machining center

## DSP 450



*Perforating and milling of brake disks*

*102 holes in 50 seconds  
(1 drill spindle of each side in the machine)*

**RASOMA**

Werkzeugmaschinen GmbH

*A member of the NSH-Group*

*since 1895*

***TOWARDS THE FUTURE WITH TRADITION***

# We introduce

The double spindle machining center enables the machining of two work pieces simultaneously and is equipped with 2, optionally 4 or 6 drill spindles. With this machine, plenty of holes can be achieved at will.

The automatic loading via a storage for raw parts is coupled to a work piece alignment to bring the different hole patterns into the brake discs position-oriented. In addition, a height-positioning of the brake disks takes place for the different heights. The thus determined height adjustment degrees are deposited in the control for the machining operation.

For each type of brake disk, from the control side there is a machining program deposited for the corresponding hole pattern. A turning station connects the first clamping with the second clamping. Finished parts can be discharged by means of a roller conveyor.

## Technical data

<b>Operating capacity</b>	
Diameter of brake disk, max.	450 mm
Thicknesses of brake disc	8-45 mm
Slide travel X	1,170 mm
Slide travel Z	380 mm
<b>Main spindle</b>	
Motor spindle	Siemens torque motor
Spindle head DIN 55026	A6
Turning spindle drilling	32 mm
Speed	Max. 280 U/min
<b>Drill spindles</b>	
Number	2, optional 4 or 6
Motor spindle	Siemens synchronos
motor Spindle head	HSK 50
Speed, max.	10,000 opt. 16,000 U/min
<b>Feed drive</b>	
Rapid traverse rate XY	60m / min
Diameter of ball screw XY	40 mm
<b>Compressed air connection</b>	6 bar
<b>Electrical specifications</b>	
Operation voltage	3/PEN AC 50 Hz 400V
Control voltage	24 VDC
Power frequency	50 Hz
Nominal current	175 A
Connected load	105 kV A
Max. fuse	250 A
<b>Dimensions</b>	
Length (with chip conveyor)	~7,400 mm
Width	~5,600 mm
Height	~3,500 mm



Perforating of brake disks:  
0.25 ... 0.6 seconds per hole plus 9 seconds  
for automatic loading and unloading



Brake disks of a sports car manufacturer  
with milled grooves, produced with RASOMA  
DSP 450

**RASOMA**  
Werkzeugmaschinen GmbH



Alexanderstraße 6  
D-04720 Döbeln  
[www.rasoma.de](http://www.rasoma.de)