RP SERIES

Durma Punch Presses

Rotational - Head Punch Durable punching operation for cost effective processes

- Single rotational head machines with versatile C frame construction.
- Stress relieved steel construction.
- Powerful Siemens controller with user friendly CAD-CAM Software.
- Fast and simple operation.
- High quality and well known hydraulic and electronic components.

Features

Control System

Siemens Sinumerik 840 DSL control system is applied for punching with strategic alliance with Siemens. Controls and screen are mounted on a mobile control panel. The control system and other hardware are mounted in a separate cabinet. Machining can be started with just a few steps. Network (ethernet) connection is available as well as programming on the control panel. UPS system prevents the control unit from the voltage fluctuations and cuts. Integrated online help messages answer all questions at the location they arise. The diagnostic concept provides visual depictions of any function faults. Remote diagnostics is a matter of course over Internet for diagnostics for machine controller. The control ensures that optimal acceleration values can be attained at every stage of machining, depending on the actual masses that need to be moved.

Cadcam Software

Programming time minimized by using fast and easy CAD-CAM software (cncKAD) metalix. By choosing the effective position of the tool automatically to use maximum area of the sheet, additional reposition and work strips is eliminated.

Auto Clamps

Automatic clamps (standard with RP6 - RP9) position according to the CAM program, sheet remove sensors at clamps detects the sheet hold, in case any possible release machine stops to protect working environment.
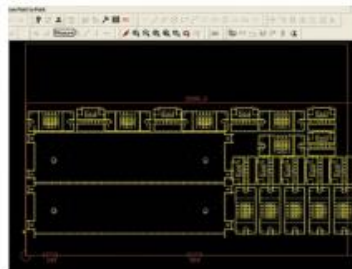

Workchute

Discharges processed small workpieces without interruption or small manual manipulation. (Optional with RP9)

Light Barrier System

DURMA Punch Press is equipped with infra-red barrier system according to CE conformity.

Multi Tooling

Durma rotation punch press machine top and bottom tools work synchronize to obtain all required angular pitch can be ± 0,02". Upper and lower index groups have no mechanical connections which means they can be perfectly aligned, even defect into the tools can be adjusted. It has a wide tooling usage capacity with 3, 6, 8, 10 tools multi tool selection.

Rotational Head

High rotational speed 40 rpm makes the machine fast. By using zero backlash gearbox system for index position punching. Automatic reposition in the X axis enables to punch longer than 2 meters and eliminate the death area on the sheet.

Technical Details

RP Series	Unit	RP9
Maximum tonnage	ton	20
X axis movement	mm	2000 + R
Y axis movement with multiple tool	mm	1250
Y axis movement with single tool	mm	1285
Max. Cutting thickness	mm	6
Automatic positioning range *	mm	10000*
Speed of Y axis	m/min	75
Speed of X axis	m/min	96
Speed of C axis index	rpm	40
Lateral speed Y + X	m/min	120
Max. Hit rate (1 mm pitch, 1mm thickness)	1/min	1100
Max. Hit rate (25 mm pitch, 1mm thickness)	1/min	370
Max. Hit rate : Marking	Stroke/min	2800
Accuracy for positioning	mm	± 0.1
Max. weight of sheet	kg	120
Hard disk	Gbyte	80
RAM	Gb SDRAM	4
Network system	-	Windows 7
LCD colorscreen Super VGA	-	15"
Working height	mm	980
Table width	mm	2400 x 3900
Machine sizes	mm	3900x4260x2420
Hydraulic system motor	kw	7.5
Oil tank	lt	200
Weight approx.	kg	12000
Main cylinder stroke	mm	40
Maximum punching diameter (for Multitool)	mm	24
Number of Clamps	pcs.	2
Holding force of clamps	kg	1000
Automatic Clamp Positioning	-	Standard
Table type	-	Brush
Energy consumption	Kw/h	8

*. Special table must be added to the machine and light barriers must be located the correct position. Max weight 100kg