



Customized Deburring Machine



KREUZ Co.,LTD.

“One stop service” Deburring Machine

We manufacture special deburring machine which mounted industrial robot or our various unit according to every customer's specification.

KREUZ provides deburring solution in "one stop service" from tool selection ,jig, programs to loading device. Selectable our robotrouter or other maker's robot.

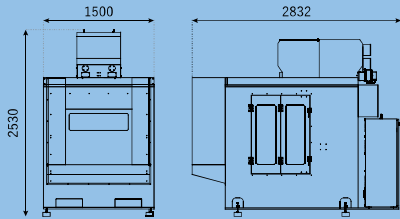
Production example / Deburring machine

D5P

Equipment name Aluminum die-cast product deburring machine
Processing Deburring
Construction method Multi-blade cutter
Specification Ceiling-mounted 5-axis robot
 [Roborouter] 1unit
 Pallet change



Machine size

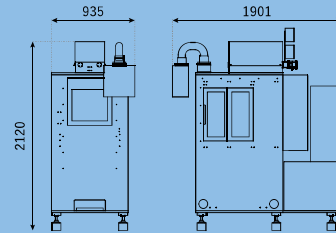


D5H mini

Equipment name Gear deburring machine
Processing Chamfer
Construction method Chamfer cutter·JF Brush
Specification Ceiling-mounted 5-axis robot
 [Roborouter] 1unit
 Positioner unit



Machine size

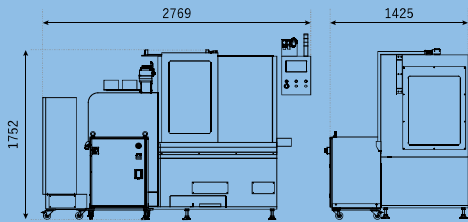


D5W

Equipment name Aluminum die-cast product deburring machine
Processing Deburring
Construction method Deburring cutter
 ·EP cutter
Specification Vertical 5-axis robot
 [Roborouter] 1unit



Machine size

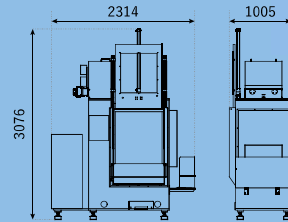


D5H

Equipment name Aluminum die-cast product deburring machine
Processing Deburring
Construction method Deburring cutter
 ·EP cutter
Specification Ceiling-mounted 5-axis robot
 [Roborouter] 1unit



Machine size

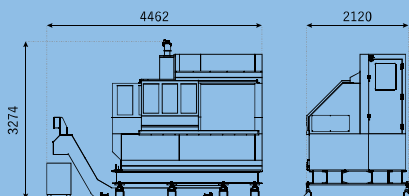


D5VR

Equipment name Iron casting article Deburring Machine
Processing Deburring
Construction method Grinding
Specification Vertical 4-axis robot
 [Roborouter] 1unit
 Positioner unit
 Handling robot
 (Loading and unloading)



Machine size

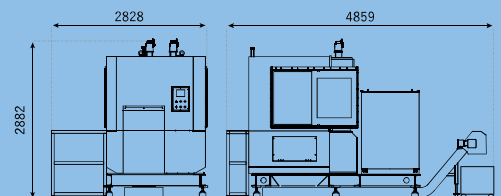


D5V

Equipment name Aluminum die-cast product deburring machine
Processing Deburring·roughing
Construction method Deburring cutter·FaceMill
Specification Vertical 4-axis robot
 [Roborouter] 1unit
 Work reversing unit
 Positioner unit



Machine size



Production example / Transport device

Conveyor

Equipment name Aluminum die-cast product
Cross Hole deburring machine

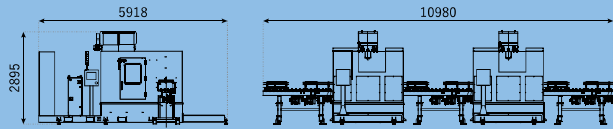
Processing Backside Chamfer

Construction method X Tool

Specification Ceiling-mounted
5-axis robot
[Roborouter] 1unit
Positioner unit
Conveyor loading/unloading



Machine size



Loader

Equipment name Aluminum die-cast product deburring machine

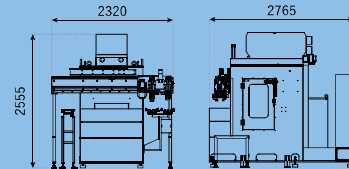
Processing Deburring

Construction method Multi-blade cutter
·JF Brush

Specification Ceiling-mounted 5-axis robot
[Roborouter] 1unit
Loader loading / unloading



Machine size



Transfer machine

Equipment name Casting deburring machine

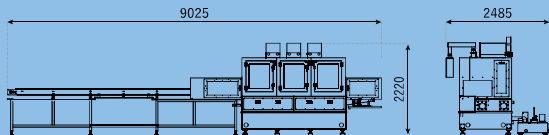
Processing Chamfer

Construction method Chamfer cutter
X tool,JF Brush

Specification Ceiling-mounted 5-axis robot
[Roborouter] 3unit
2-axis dedicated unit
Transfer machine



Machine size



Handling RB

Equipment name Casting deburring machine

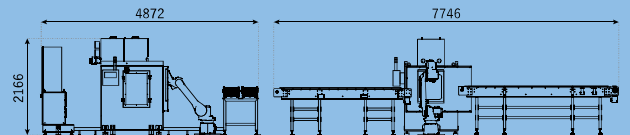
Processing Chamfer

Construction method Chamfer cutter
·JF Brush

Specification Ceiling-mounted 5-axis robot
[Roborouter] 1unit
Brush dedicated station
Handling robot
(Loading and unloading)



Machine size



Production example / Dedicated machine

Dedicated machine

Equipment name Pressed product
cross hole deburring machine

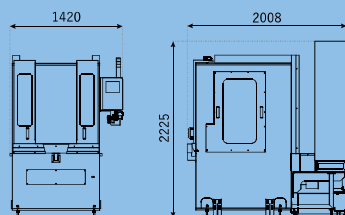
Processing Backside Chamfer

Construction method Scraper

Specification 2-axis dedicated 2 unit
Positioner unit



Machine size



Production example / 6-axis articulated robot

6-axis articulated robot

Equipment name Forged deburring machine

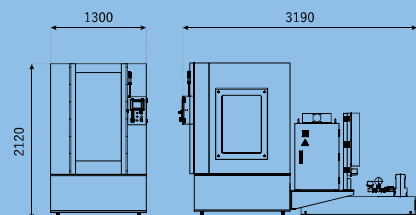
Processing Chamfer

Construction method Chamfer cutter

Specification 6-axis articulated robot 1 unit
index unit



Machine size



Kreuz original 5-axis robot [Roborouter]



Model: RBR-D5V

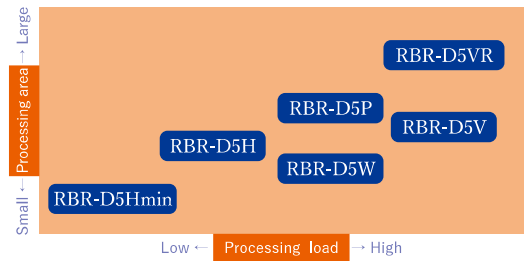


Model: RBR-D5P

Our original robot which named Roborouter is specialized in deburring. X, Y and Z axis in this roborouter use ball screw and liner guide, it means this robot has same structure as machine tool.

Roborouter is special robot having both the operability of general-purpose articulated robot and the rigidity of machine tool.

The special structure, which become lighter with nearer processing point, makes deburring speedy and accurately.



Kreuz Roborouter Standard Specifications

Model	Structure	Number of control axea	Load capacity	Repeated positioning accuracy	Operating range	Maximum speed	Approximate mass of the main body	Power capacity	Controller
RBR-D5P	Parallel link(XYZ) +Wrist joint structure	5(standard) MAX.6	100kg	±0.05mm	X 570mm	X 500mm/sec	400kg	1.75KVA	DX200
					Y 600mm	Y 500mm/sec			
					Z 400mm	Z 250mm/sec			
					4th ±180deg				
					5th ±180deg				
					6th -				
RBR-D5W	Parallel link(XYZ) +Wrist joint structure	5(standard) MAX.6	100kg	±0.05mm	X 400mm	X 250mm/sec	400kg	1.75KVA	DX200
					Y 450mm	Y 250mm/sec			
					Z 300mm	Z 250mm/sec			
					4th ±180deg				
					5th ±180deg				
					6th -				
RBR-D5H	Parallel link(XYZ) +Wrist joint structure	5(standard) MAX.6	80kg	±0.05mm	X 450mm	X 500mm/sec	390kg	1.75KVA	DX200
					Y 600mm	Y 500mm/sec			
					Z 250mm	Z 250mm/sec			
					4th ±180deg				
					5th ±180deg				
					6th -				
RBR-D5H mini	Parallel link(XYZ) +Wrist joint structure	5(standard) MAX.6	30kg	±0.05mm	X 300mm	X 500mm/sec	250kg	1.5KVA	DX200
					Y 300mm	Y 500mm/sec			
					Z 150mm	Z 250mm/sec			
					4th ±180deg				
					5th ±180deg				
					6th -				
RBR-D5V	Parallel link(XYZ) +Wrist joint structure	4(standard) MAX.6	150kg	±0.05mm	X 680mm	X 250mm/sec	850kg	3.0KVA	DX100
					Y 700mm	Y 250mm/sec			
					Z 600mm	Z 250mm/sec			
					4th ±180deg				
					5th -				
					6th -				
RBR-D5VR	Parallel link(XYZ) +Z-axis slide table +Wrist joint structure	4(standard) MAX.6	150kg	±0.05mm	X 570mm	X 250mm/sec	800kg	3.0KVA	DX100
					Y 700mm	Y 250mm/sec			
					Z 1000mm	Z 250mm/sec			
						(Stroke can be specified option)			
					4th ±180deg				
					5th -				
6th -									

※Note: The change of tooling and operating regions will be optional



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※Tool specifications are subject to change without notice.