



Lathes

Milling machines



Kawasaki FS006L with Raster loading a Mazak Quickturn Smart



Kawasaki RS020N with Vision and Bin-Picking loading DMG CTV160



Kawasaki ZX130L with Vision loading a DMG 50EVO



Kawasaki RS010N with Vision loading a Mazak VCS-530C



Kawasaki FS010E with Vision and Bin-Picking loading Gildemeister



Kawasaki RS020N with magazine loading a Nakamura-Tome



Kawasaki FS020N with Cognex Vision loading a Chiron



Kawasaki FS030L with Vision loading a Hermle C800U



Kawasaki ZX200U with Vision loading a Okuma Multus B400W



Kawasaki FS045N with Vision loading 2 Mori Seiki



Kawasaki FS010E with Vision loading a Bridgeport VMC610 X3



Kawasaki FS006 with Vision loading 2 Fanuc Robotdrills



Kawasaki ZX165U picks work pieces from a pallet for a Doosan Puma



Kawasaki FS020N with Vision loading a Victor



Kawasaki FS020N with Vision loading a Victor VCenter205



Kawasaki FS006 with Vision loading a Brother TC32B



Kawasaki FS010E with Vision loading 2 Miyano LX08C



Kawasaki FS010L with Vision loading a Femco



Kawasaki FS030N with Vision loading a Micron VCE1000



Kawasaki FS010L with Vision loading a Quasar MV154PL



Kawasaki FS020N with raster magazine loading a Hitachi



Kawasaki FS006L with Vision Loading a Leadwell and a Takisawa



Kawasaki FS006L with Vision loading a Haas Minimill



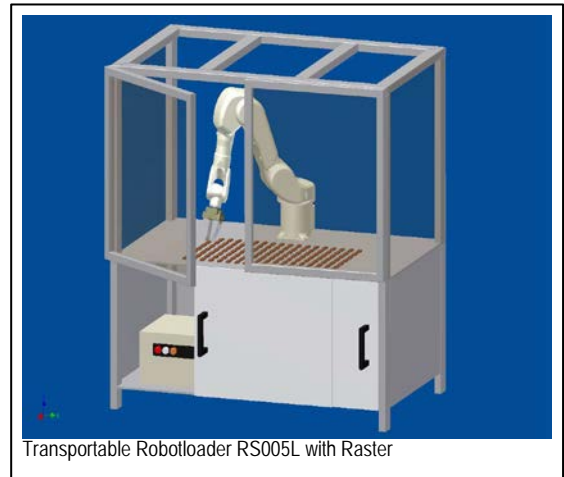
Kawasaki FS006L with raster magazine loading a Hartford VMC560

1. Robotloader RS005L with Raster, set price € 40.000,00.

The robot and the controller are fitted in an aluminum frame with lexan shielding in accordance with CE regulations. This compact unit can be transported easily to another machine. The operator adjusts the robot program quickly for a new work piece by a few tabs on the touch-screen of the tablet-pc with Raster software. He then places the work pieces in the openings of the magazine-plate. The robot picks a raw work piece from the magazine and places it in machine. When the work cycle of the machine is finished, the robot takes the work piece from the machine and places it in the magazine.

Scope of supply Robotloader RS005L with Raster:

- 1 Kawasaki RS005LFE71 robot, 5 kg., 6 axes, reach 903 mm.
- 1 Kawasaki E71 controller, teach panel, 6.4" TFT colour touch screen
- 1 Tablet-pc with Raster software
- 1 Interface unit with 32 inputs, 32 outputs, 2x TCP/IP Ethernet
- 1 Transportable aluminium cabinet for the robot with lexan shields
- 1 Schunk PGN+ 80/2 gripper with 2 fingers for 1 workpiece
- 1 Nozzle for cleaning the chuck with pressurised air
- 1 Matrix plate 800x800 mm. for the work pieces
- 1 Set lexan shielding with 2 doors in accordance with CE
- 1 Easy teach-in robot program for 1 workpiece
- 1 Programming
- 1 Set of Kawasaki robot manuals
- 1 Set of CE documentation in English

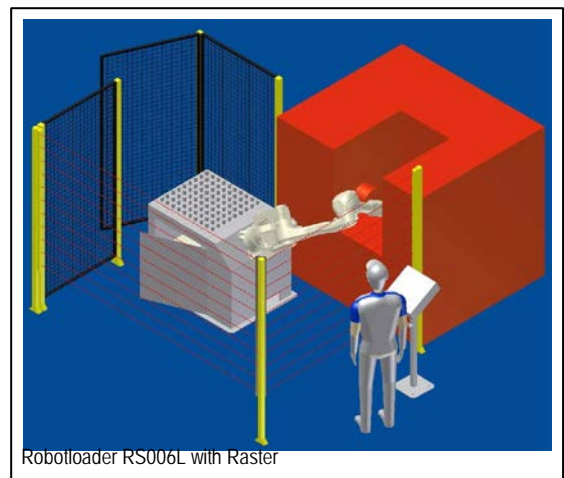


2. Robotloader RS006L with Raster, set price € 50.000,00.

The robot is mounted on the console in an angle of 45°, in this way it is possible to place the robot net to the door of the machine, leaving the access to the machine-door free for the operator. Thanks to the Raster software, which runs on the tablet-pc, it is easy to set the robot program for a new work piece. No special knowledge of programming is needed; the operator is guided by clear and intuitive menus. The robot is equipped with a double gripper, the work pieces are quickly changed by the robot in the chuck. The robot blows chips and coolant of the work piece and the chuck in the machine, by moving a pneumatic nozzle which is mounted on the gripper. This compact robot system requires a small floor space. By using a safety light barrier with a mirror, two sides of the robot cell are open, for a safe and optimal access for the operator.

Scope of supply Robotloader RS006L with Raster:

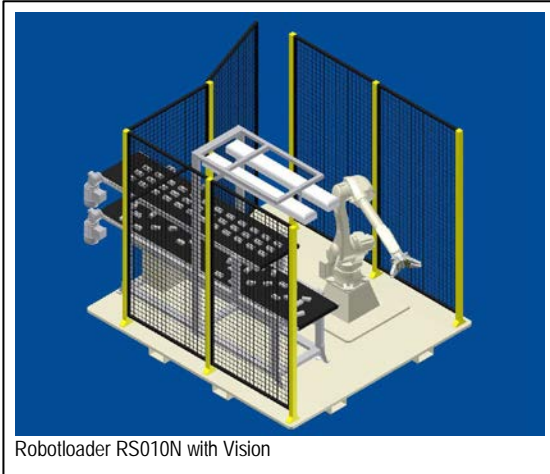
- 1 Kawasaki RS006LFE71 robot, 6 kg., 6 axes, reach 1.650 mm.
- 1 Kawasaki E71 controller, teach panel, 6.4" TFT color touch screen
- 1 Tablet-pc with Raster software
- 1 Interface unit with 32 inputs, 32 outputs, 2x TCP/IP Ethernet
- 1 Console for the robot and the matrix magazine
- 2 Schunk PZN+ 80/2 grippers with 2 sets of 3 fingers for 1 work piece
- 1 Nozzle for cleaning the chuck with pressurised air
- 1 Matrix plate 800x800 mm. for the work pieces
- 1 Set light barriers, safety fences with 1 door in accordance with CE
- 1 Easy teach-in robot program for 1 work piece
- 1 Programming
- 1 Factory acceptance test
- 1 Set of Kawasaki robot manuals
- 1 Set of CE documentation in English





3. Robotloader RS010N with Vision, set price € 55.000,00.

The operator places the raw work pieces randomly on the lower conveyor. The camera of the Vision system recognises the work pieces and transfers the positions to the robot. The robot picks the work piece from the conveyor and places it in the machine. The robot has taken the ready work piece from the chuck and places it on the upper conveyor. The flexible supply system for the work pieces makes it possible to use the robotloader for large and small production series. The RS010N Robotloader is equipped with a double gripper for quickly changing the work pieces in the machine.



Scope of supply Robotloader RS010N with Vision:

- 1 Kawasaki RS010NFE71 robot, 10 kg., 6 axes, reach 1.450 mm.
- 1 Kawasaki E71 controller, teach panel, 6.4" TFT color touch screen
- 1 Interface unit with 32 inputs, 32 outputs, 2x TCP/IP Ethernet
- 1 Set Vision: tablet pc, camera, lens, lighting system
- 1 Baseplate with stand for the robot and the conveyor system
- 2 Schunk PGN+ 80/2 grippers with 2 sets of fingers for 1 work piece
- 1 Nozzle for cleaning the chuck with pressurised air
- 1 Conveyor for work pieces, length=2.500 mm. width=500mm.
- 1 Conveyor for work pieces, length=2.000 mm. width=500mm.
- 1 Set safety fences with 1 service door in accordance with CE
- 1 Easy teach-in robot program for 1 work piece
- 1 Programming
- 1 Factory acceptance test
- 1 Set of Kawasaki robot manuals
- 1 Set of CE documentation in English

4. Robotloader RS020N with Vision, set price € 60.000,00.

De Kawasaki RS020N robot has a handling capacity of 20 kg. This Robotloader is equipped with a double gripper (fast exchange of work piece), 1 in-feed conveyor, 1 out-feed conveyor for work pieces and safety fences in compliance with CE. The camera of the Vision system guides the robot to the work piece on the conveyor. The robot picks the work piece from the conveyor, moves in the machine and exchanges the machined work piece for a raw work pieces in the chuck. The robot then places the machined work piece on the lower conveyor. **The option Bin-Picking with a magnet-gripper has an extra price of € 1.200,00.** The robot uses the magnet gripper to pick work pieces from the bin or container. The robot places the work pieces randomly on the lower conveyor, where these are detected by the camera of Vision.



Scope of supply Robotloader RS020N with Vision:

- 1 Kawasaki robot, RS020NFE40, 20kg, 6 axes, reach 1.725 mm.
- 1 Kawasaki E40 controller, teach panel, 6.4" TFT color touch screen
- 1 Interface unit with 32 inputs, 32 outputs, 2x TCP/IP Ethernet
- 1 Set Vision: tablet pc, camera, lens, lighting system
- 1 Base plate with stand for the robot and the conveyor system
- 2 Schunk PGN+ 80/2 grippers with 2 sets of fingers for 1 work piece
- 1 Nozzle for cleaning the chuck with pressurised air
- 1 Conveyor for work pieces, length=2.500 mm. width=500mm.
- 1 Conveyor for work pieces, length=2.000 mm. width=500mm.
- 1 Set safety fences with 1 service door in accordance with CE
- 1 Easy teach-in robot program for 1 work piece
- 1 Programming
- 1 Factory acceptance test
- 1 Set Kawsaki robot manual
- 1 Set of CE documentation in English

Option: Magnet gripper, program for Bin-Picking extra price € 1.200,00

Overview

Description	RS005L	RS006L	RS010N	RS020N	RS080N
1 Kawasaki RS005LFE71: 5kg. robot, E71 controller	V				
1 Kawasaki RS006LFE71: 6kg. robot, E71 controller		V			
1 Kawasaki RS010NFE71: 10kg. robot, E71 controller			V		
1 Kawasaki RS020NFE40: 20kg. robot, E40 controller				V	
1 Kawasaki RS080NFE42: 80kg. robot, E42 controller					V
1 Interface unit with 32 inputs and 32 outputs	V	V	V	V	V
1 Set Raster: tablet pc, Raster software	V	V			
1 Set Vision: tablet pc, camera, lens, lighting			V	V	V
1 Console for the robot with magazine 800x800 mm.	V	V			
1 Base plate with stand for the robot			V	V	V
1 Single gripper: 1x Schunk PGN+80/2	V				
1 Double gripper: 2x Schunk PGN/PZN+80/2		V	V	V	
1 Double gripper: 2x Schunk PGN+125/1AS					V
1 Nozzle on the gripper for cleaning the chuck	V	V	V	V	V
1 Conveyor length=2.500 mm width=500 mm.			V	V	V
1 Conveyor length=2.000 mm width=500 mm.			V	V	V
1 Set safety fences with 1 service door according to CE	V	V	V	V	V
1 Set of safety light barriers		V			
1 Easy teach-in robot program for 1 work piece	V	V	V	V	V
1 Programming	V	V	V	V	V
1 Factory acceptance test	V	V	V	V	V
1 Set Kawasaki robot manuals	V	V	V	V	V
1 Set of CE documentation in English	V	V	V	V	V

Options

Bin-Picking: magnet gripper, Bin-Picking robot program, the robot picks random parts from a bin € 1.200,00

Second camera with lens and harness for Vision for a second pick-up position € 1.400,00

Second camera with macro-lens and harness for Vision for quality control € 1.900,00

Centering- and turn-over station, for rotating work pieces 180°, to enable a second machining operation € 1.500,00