

Robotic Loading Systems for CNC Machine Tools

Compact | Easy to use | Flexible | Affordable



Rapidly deployed on **any CNC machine**, Agile Flex offers maximum productivity out of the box

- ➔ No robot programming knowledge required
- ➔ Easily accessible fenceless technology
- ➔ New parts set up in-house, in minutes
- ➔ Easy to use Agile Cell Controller
- ➔ Multiple part types unmanned
- ➔ No robot interface required
- ➔ No auto-door required
- ➔ Flexible, configurable
- ➔ Affordable
- ➔ Compact

Agile Flex Cell Controller



- ➔ Familiar, easy to understand, state of the art user interface
- ➔ Easy to follow wizard-guided Agile Process Builder
- ➔ Complex robot sequences configured in minutes
- ➔ Standard on all Agile Flex models

AgileFlex^{12P}

“An affordable, fenceless and productive system, ideally suited to smaller machines”



Agile Flex 12P Technical Specifications

General	
Agile control software	●
Included standard nest plates (double layer)	1
Additional nest plates	○
Power supply (kVA)	2
Pneumatic pressure (bar)	6
Robot	
Fanuc M10 iD12 robot (12kg payload)	●
Double 3-jaw gripper	●
Gripper pressure control	●
Capacities	
Workpiece diameter (min/max)	1" - 4" / 25mm - 100mm
Workpiece length	>12" / 300mm (application dependant)
Workpiece weight - double gripping (max)	9lbs / 4kg
Weight capacity (max)	500lbs / 220kg
Standard nest plate capacity $\Phi 0.75"$ - $\Phi 4"$ / $\Phi 20$ mm - $\Phi 100$ mm (pieces)	32
Standard nest plate capacity $\Phi 0.75"$ - $\Phi 2.5"$ / $\Phi 20$ mm - $\Phi 63$ mm (pieces)	72
Standard nest plate capacity $\Phi 0.75"$ - $\Phi 1.375"$ / $\Phi 20$ mm - $\Phi 35$ mm (pieces)	179
Safety	
Floor scanner	●
Integrated enclosure	●
Safety fence	○

● Standard ○ Option

AgileFlex^{12D}

“A multi-layer drawer system that increases overall capacity and unmanned run time”



Agile Flex 12D Technical Specifications

General	
Agile control software	●
Number of drawers (standard)	3
Number of drawers (max)	3
Included nest plates	1 per drawer
Additional nest plates	○
Drawer-mount pallet	○
Power supply (KvA)	2
Pneumatic pressure (bar)	6
Robot	
Fanuc M10 iD12 robot (12kg payload)	●
Double 3-jaw gripper	●
Gripper pressure control	●
Capacities	
Workpiece diameter (min/max)	1" - 4" / 25mm - 100mm
Workpiece length - 3 drawers (standard) (min/max)	0.4" - 5" / 10mm - 125mm
Workpiece length - optional drawer-mount pallet (max)	>12" / 300mm (application dependant)
Workpiece weight - double gripping (max)	9lbs / 4kg
Weight capacity - drawer (max)	180lbs / 80kg
Weight capacity - optional drawer-mount pallet (max)	500lbs / 220kg
Drawer/Pallet capacity ϕ 1" / ϕ 25mm (pieces)	108
Drawer/Pallet capacity ϕ 2" / ϕ 50mm (pieces)	48
Drawer/Pallet capacity ϕ 3" / ϕ 75mm (pieces)	30
Drawer/Pallet capacity ϕ 4" / ϕ 100mm (pieces)	20
Safety	
Floor scanner	●
Integrated enclosure	●
Safety fence	○

● Standard ○ Option

Agile CoFlex 15P

“A true interactive solution requiring little floor space”



Agile CoFlex 15P Technical Specifications

General	
Agile control software	●
Included standard nest plates (double layer)	1
Additional nest plates	○
Power supply (KvA)	2
Pneumatic pressure (bar)	6
Robot	
Fanuc CR15iA robot (15kg payload)	●
Double 3-jaw gripper	●
Gripper pressure control	●
Capacities	
Workpiece diameter (min/max)	1" - 4" / 25mm - 100mm
Workpiece length	>12" / 300mm (application dependant)
Workpiece weight - double gripping (max)	9lbs / 4kg
Weight capacity (max)	500lbs / 220kg
Standard nest plate capacity $\Phi 0.75"$ - $\Phi 4"$ / $\Phi 20\text{mm}$ - $\Phi 100\text{mm}$ (pieces)	32
Standard nest plate capacity $\Phi 0.75"$ - $\Phi 2.5"$ / $\Phi 20\text{mm}$ - $\Phi 63\text{mm}$ (pieces)	72
Standard nest plate capacity $\Phi 0.75"$ - $\Phi 1.375"$ / $\Phi 20\text{mm}$ - $\Phi 35\text{mm}$ (pieces)	179
Safety	
Floor scanner	N/A
Integrated enclosure	N/A
Safety fence	N/A

● Standard ○ Option

AgileFlex^{35P}

“An affordable system for heavier parts and bigger machines.”



Agile Flex 35P Technical Specifications

General	
Agile control software	●
Included standard nest plates (double layer)	1
Additional nest plates	○
Power supply (kVA)	3
Pneumatic pressure (bar)	6
Robot	
Fanuc M20iA35M robot (35kg payload)	●
Double 3-jaw gripper	●
Gripper pressure control	●
Capacities	
Workpiece diameter (min/max)	1" - 6" / 25mm - 150mm
Workpiece length (max)	>12" / 300mm (application dependant)
Workpiece weight - double gripping (max)	17.5lbs / 8kg
Weight capacity (max)	500lbs / 250kg
Standard nest plate capacity $\phi 0.75"$ - $\phi 4"$ / $\phi 20$ mm - $\phi 100$ mm (pieces)	41
Standard nest plate capacity $\phi 0.75"$ - $\phi 2.5"$ / $\phi 20$ mm - $\phi 63$ mm (pieces)	85
Standard nest plate capacity $\phi 0.75"$ - $\phi 1.375"$ / $\phi 20$ mm - $\phi 35$ mm (pieces)	221
Safety	
Floor scanner	●
Integrated enclosure	●
Safety fence	○

● Standard ○ Option

AgileFlex35D

“A larger capacity multi-layer drawer system for increased unmanned run time”



Agile Flex 35D Technical Specifications

General	
Agile control software	●
Number of drawers (standard)	4
Number of drawers (max)	8
Included nest plates (single layer)	1 per drawer
Additional nest plates	○
Drawer-mount pallet	○
Power supply (KvA)	3
Pneumatic pressure (bar)	6
Robot	
Fanuc M20iA35M robot (35kg payload)	●
Double 3-jaw gripper	●
Gripper pressure control	●
Capacities	
Workpiece diameter (min/max)	1" - 6" / 25mm - 150mm
Workpiece length - 2 drawers (option) (min/max)	0.4" - 12" / 10mm - 300mm
Workpiece length - 4 drawers (standard) (min/max)	0.4" - 6" / 10mm - 150mm
Workpiece length - 8 drawers (option) (min/max)	0.4" - 3" / 10mm - 75mm
Workpiece length - optional drawer-mount pallet (max)	>12" / 300mm (application dependant)
Workpiece weight - double gripping (max)	17.5lbs / 8kg
Weight capacity - per drawer (max)	220lbs / 100kg
Weight capacity - optional drawer-mount pallet (max)	500lbs / 250kg
Drawer/Pallet capacity ϕ 1" / ϕ 25mm (pieces)	120
Drawer/Pallet capacity ϕ 2" / ϕ 50mm (pieces)	60
Drawer/Pallet capacity ϕ 3" / ϕ 75mm (pieces)	32
Drawer/Pallet capacity ϕ 4" / ϕ 100mm (pieces)	24
Drawer/Pallet capacity ϕ 6" / ϕ 150mm (pieces)	12
Safety	
Floor scanner	●
Integrated enclosure	●
Safety fence	○

● Standard ○ Option



www.agilerobotics.com

Agile Robotic Systems is a leading supplier of innovative machine loading systems to manufacturers globally.

Founded on the principle of providing manufacturers with market leading technologies and first class support, we are able to draw upon a heritage of over 70 years in machine tools, and close to 40 years in automation and robotics.

Agile Robotic Systems is an American headquartered company which develops, builds, sells and supports:

- CNC Machine Tool Loading Systems
- Robotic Automations Systems

Based upon our long held philosophy of offering well designed, extremely robust and reliable systems, our team of experienced engineers is leading the way in helping manufacturers transform their productivity.