

**ROBOJOB** USA  
FIRST IN CNC AUTOMATION



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# MILL-ASSIST SERIES

GET MORE OUT OF YOUR MILLING MACHINE

# MILL-ASSIST SERIES

## More possibilities than ever before

For many years already, the Mill-Assist Essential has been the market's preferred standard automation for the automatic loading and unloading of your milling machine. We are extremely proud that we are now able to further expand our Mill-Assist range. That way you have more **possibilities** than ever before.

The Mill-Assist range is being expanded with new versions. In doing so, we make the distinction between 'integrated' and 'separated' automations. With the **'integrated'** models we build the entire automation on to one fixed frame. This offers the advantage that you can **easily remove** this automation or **even move it** from one CNC machine to another.

In the **'separated'** models all key elements are constructed separately from each other: the feed and removal, the robot with the robot support, the operating console and various possible safety systems. This way, these elements may be **physically separated from each other**. This enables you to place your automation unit on the side of your milling machine. This way, the front remains completely free.

This brochure will guide you through our **renewed Mill-Assist range**. You will see that you have a wide range of standard products, standard options and modular extensions. These building blocks allow you to build **your customized automation**. Your commercial contact points will be happy to assist you in your search for the right solution for your needs and assignments.

Choose RoboJob. You'll find that you've found a partner who not only knows the machining industry in all its facets, but also thinks with you. Together, we make your business more profitable, we increase your flexibility and we improve your employees' job satisfaction.

866-952-9020 and then press 1  
info@robojob-usa.com

**RoboJob-USA.com**



## VIDEO LINKS

VID-83  
Machine Shop Myths



VID-66  
Deloitte Study:  
Struggling to Meet Existing Demand



VID-84  
American Reshoring Update August 2022



VID-64  
Robot Economic Myths



VID-58  
Robots Do More Than Tend Your CNC Machine



VID-69  
Twilight Manufacturing



# MILL-ASSIST **ESSENTIAL**

- > YOUR **ESSENTIAL** STANDARD AUTOMATION
- > FOR **SMALL** AND **MEDIUM** SIZED RUNS

Using the Mill-Assist Essential you can set to work immediately. This easy-to-use automation has been specifically developed for the loading and unloading of small runs and/or small workpieces. You have a fixed table that you can configure yourself with workpiece supports or grid plates that you can also make yourself.

As a result of our user-friendly interface you can automate your small runs in just a few minutes: the intuitive, graphic software guides you step by step when setting up your assignment.

With the Mill-Assist Essential you can choose from **different models**:

|         | ESSENTIAL      | INTEGRATED | SEPARATED |
|---------|----------------|------------|-----------|
| PAYLOAD | 20 kg payload  | •          | •         |
|         | 35 kg payload  | •          | •         |
|         | 50 kg payload  |            | •         |
|         | 70 kg payload  |            | •         |
|         | Higher payload |            | •         |

Page 12 gives you an overview of all Options and Modular extensions, with which you can further personalize your Mill-Assist.



# INTEGRATED

- > Automation on one fixed frame
- > Easily moveable

- 01 3 coloured signal tower
- 02 Integrated safety wall \*
- 03 Configurable feed and receipt
- 04 Built-in robot controller
- 05 Fixed chassis & anchoring points
- 06 Industrial robot
- 07 Clamping force control for grippers
- 08 Control panel \*
- 09 Laser scanner \*



\* This set-up is a standard set-up without Pallet-Load or Pallet-Unload. Installations with Pallet-Load and / or Pallet-Unload are protected with a cage or light screen.

# SEPARATED

- > Key elements are physically separated from each other

- 01 Safety wall
- 02 Robot support
- 03 Control panel
- 04 Configurable feed and receipt
- 05 Clamping force control for grippers
- 06 Industrial robot
- 07 Built-in robot controller
- 08 Light screen

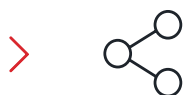


# WHY CHOOSE A MILL-ASSIST?

When you choose a Mill-Assist, you choose the standard in CNC automation. Each of our Mill-Assist products meets the highest requirements so that you can increase your Efficiency, Output and Flexibility.

With a Mill-Assist you make the work more pleasant on the work floor, you get more spindle hours from your machine and you have an extremely flexible solution with a wide applicability in weight and type of workpieces.

We will explain the 4 most important benefits to you:



**FLEXIBLE**



**SIMPLE AND SMART**



**CAPACITY**



**EXTREMELY COMPACT**





## FLEXIBLE

- > Unique gripper concept
- > Various gripper types
- > Integrated airflow
- > Workpiece detection

WHY CHOOSE A MILL-ASSIST?



Two-point gripper  
for block workpieces



Smart Quad Grip system  
with two-point gripper and vacuum gripper

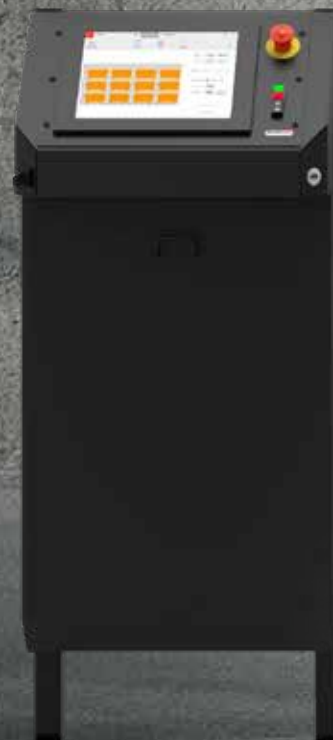
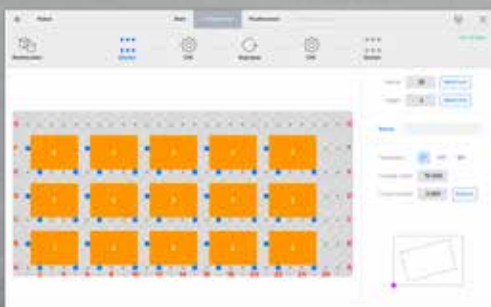
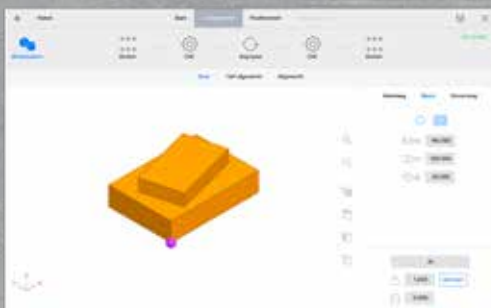






## SIMPLE AND SMART

- › Intuitive graphic control
- › Fastest set-up and change-over times
- › Touch screen

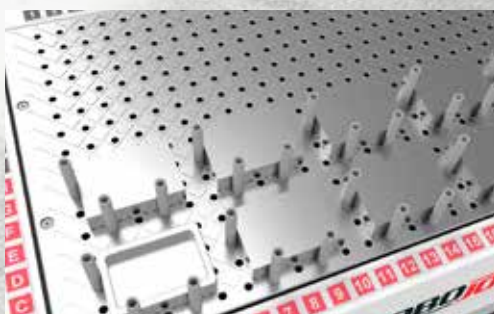
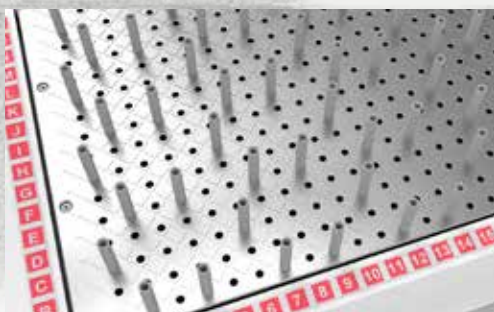
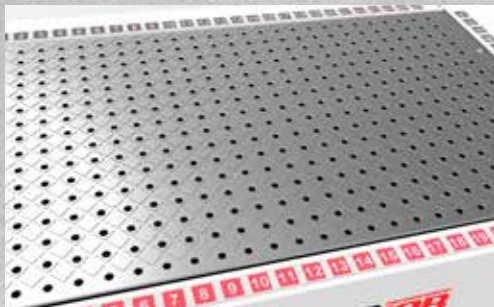






## CAPACITY

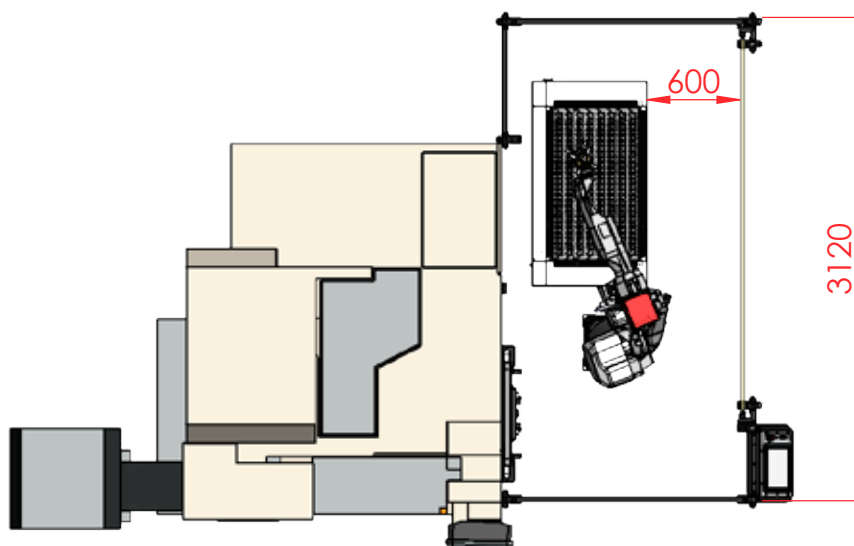
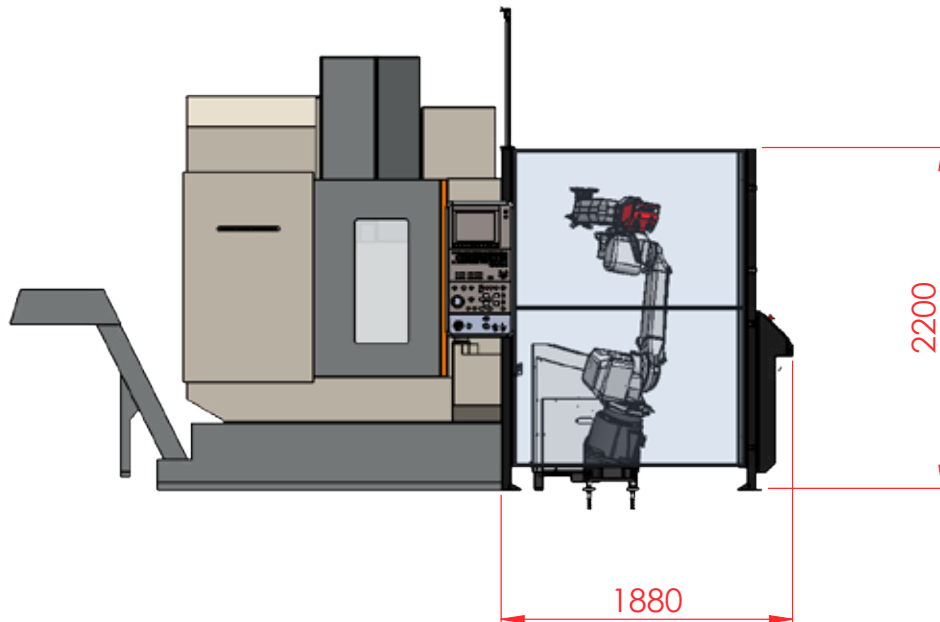
- › Highest capacity on the smallest surface
- › No grid plates needed, although possible
- › Stacking of workpieces



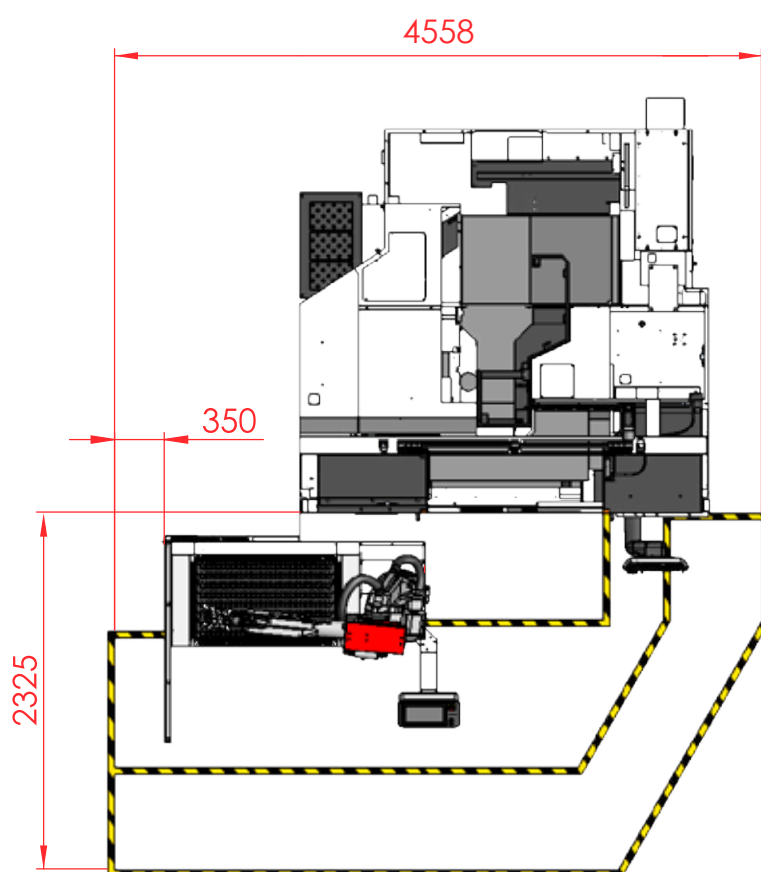
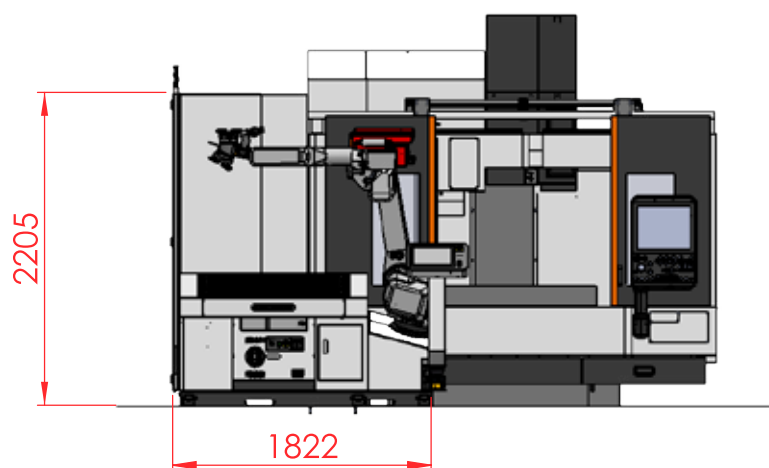


## EXTREMELY COMPACT

- > The most compact automation on the market
- > Visible and open configuration
- > Installation in front of or next to the machine







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# OPTIONS AND MODULAR EXTENSIONS

## For your Mill-Assist

With our **Modular Extensions** you have various possibilities for adding extra functionality to your automation. Each time according to your own needs and the assignments you want to process automatically. The following pages give you an overview of all modular extensions.

Furthermore, at RoboJob we are continuously working on new possibilities! This is why you should also keep a close eye on our website **[www.robojob.eu](http://www.robojob.eu)**, since you will always find an up-to-date overview of our latest novelties and innovations there.

With all new extensions we of course strive to be able to apply these to existing RoboJob systems.

## Options

|                                                          |
|----------------------------------------------------------|
| Automatic messenger service                              |
| Automatic shutdown of the automation and the CNC machine |
| Grippers for round components                            |
| Integration with Präge Fix system                        |
| Software for pre- and post-processing                    |
| Vacuum grippers                                          |
| Portability to another milling machine                   |
| Portability to a lathe                                   |

In order that you can actually build your customized automation, we provide you with a wide range of extras: these Options require additional software and/or hardware. Your commercial point of contact will explain these further to you.



## REVOLVING UNIT

For a complete finish of your milling pieces, along all sides

- > High quality design
- > Higher output
- > Your customised automation

The revolving unit ensures that you can continue to increase your output. Your robot can now turn the workpiece itself. This means that all sides are processed in a single set-up command, and **the machine can even remain working independently for longer.** The components therefore immediately come finished from the machine, processed on all sides. The output of the CNC machine is thus further increased and the work-in-progress is reduced.



# PALLET-LOAD

For the automatic loading from a pallet

- Immediate increase of your capacity
- Elimination of further manual processes
- Efficient internal transportation

Do you regularly produce larger series? And do you want your Mill-Assist to load your rough - stacked and loose - components directly from a pallet into your CNC machine? Then expand your robot with the Pallet-Load feature.





## PALLET-UNLOAD

For the automatic unloading to a pallet

- Palletise effectively
- Immediate increase of your capacity
- Elimination of further manual processes
- Efficient internal transportation

Using the Pallet Unload extension, you automatically remove the finished components from your CNC machine and stack them directly on to a pallet.



| MILL-ASSIST       |                                                                  | E i           | E s                |
|-------------------|------------------------------------------------------------------|---------------|--------------------|
| GENERAL DATA      | Version                                                          | Integrated    | Separated          |
|                   | Minimum length of the workpieces                                 | 25 mm         | 25 mm              |
|                   | Maximum length of the workpieces                                 | 400 mm        | 400 mm             |
|                   | Minimum Ø of round workpieces **                                 | 25 mm         | 25 mm              |
|                   | Maximum Ø of round workpieces **                                 | 400 mm        | 400 mm             |
|                   | Minimum width of the side of hexagonal workpieces                | 25 mm         | 25 mm              |
|                   | Maximum width of the side of hexagonal workpieces                | 170 mm        | 170 mm             |
|                   | Maximum stacking height                                          | 80 - 100 mm   | 80 - 100 mm        |
|                   | Maximum stacking weight                                          | 600 kg        | 600 kg             |
|                   | Maximum workpiece weight                                         | 14 / 28 kg    | 14 / 28 kg or more |
|                   | Width of the automation                                          | 1.902 mm      | 1.902 mm           |
|                   | Depth of the automation                                          | 740 mm        | 740 mm             |
|                   | Height of the automation                                         | 2.202 mm      | 2.202 mm           |
|                   | Total weight of the automation                                   | 1.000 kg      | 1.000 kg or more   |
|                   | Electrical power                                                 | 380 VAC       | 380 VAC            |
|                   | Pneumatic usage                                                  | < 100 L / min | < 100 L / min      |
| PAYLOAD           | 20 kg payload                                                    | •             | •                  |
|                   | 35 kg payload                                                    | •             | •                  |
|                   | 50 kg payload                                                    |               | •                  |
|                   | 70 kg payload                                                    |               | •                  |
|                   | Heavier payload                                                  |               | •                  |
| STANDARD FEATURES | Operator console with touch screen                               | •             | •                  |
|                   | Intuitive graphic control                                        | •             | •                  |
|                   | Fastest set-up and change-over times                             | •             | •                  |
|                   | Open and visible configuration with free machine-opening         | •             | •                  |
|                   | Possibility to set up in front of the machine                    | •             | •                  |
|                   | Possibility to set up next to the machine                        |               | •                  |
|                   | Removable ***                                                    | •             |                    |
|                   | Robot, feed and removal and IPC may be separated from each other |               | •                  |
|                   | Configurable feed and removal using workpiece supports           | •             | •                  |
|                   | Possibility to work with grid plates                             | •             | •                  |
|                   | Suitable for rectangular components                              | •             | •                  |
|                   | Stacking of workpieces (see max. stacking height)                | •             | •                  |
|                   | Leaked fluid collection and recovery to the machine              | •             | •                  |
|                   | Integrated air blow                                              | •             | •                  |
|                   | Separate grippers for rough & finished workpieces                | •             | •                  |
|                   | External and/or internal gripping                                | •             | •                  |
|                   | Clamping force control on grippers                               | •             | •                  |
|                   | Adjustable gripper jaws                                          | •             | •                  |



| MILL-ASSIST |                                                                                  | E i | E s |
|-------------|----------------------------------------------------------------------------------|-----|-----|
| SAFETY      | Automatic automation shutdown                                                    | •   | •   |
|             | 3-colour signal tower                                                            | •   | •   |
|             | Workpiece detection                                                              | •   | •   |
|             | Protection with laser scanner                                                    | ○   | ○   |
|             | Protection with integrated partition                                             | ○   |     |
|             | Protection with light screen                                                     | ○   | ○   |
|             | Protection with separate screen wall                                             | ○   | ○   |
| OPTIONS     | Protection with separate transparent wall                                        | ○   | ○   |
|             | Protection with sliding gates                                                    | ○   | ○   |
|             | Automatic messenger service                                                      | ○   | ○   |
|             | Automatic shutdown of automation and CNC machine                                 | ○   | ○   |
|             | Grippers for round components **                                                 | ○   | ○   |
|             | Integration with Präge Fix system                                                |     | ○   |
|             | Pallet-Load *                                                                    | ○   | ○   |
|             | Pallet-Unload *                                                                  | ○   | ○   |
|             | Software for pre- and post-processing                                            | ○   | ○   |
|             | Vacuum grippers                                                                  | ○   | ○   |
|             | Portability to another milling machine ***                                       | ○   |     |
|             | Portability to a lathe **                                                        | ○   |     |
|             | Revolving unit                                                                   | ○   | ○   |
|             | Suitable for hexagonal components                                                | ○   | ○   |
|             | Suitable for round components (provided that there are additional gripper-heads) | ○   | ○   |



- Available as standard
- Option
- \* Protection: not in combination with the laser scanner
- \*\* Not to be combined with both revolving units. Additional grippers are also needed
- \*\*\* Only in combination with the laser scanner and integrated partition

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## CONTACT



### Would you like personal advice?

Not all of your questions answered? Then we'll be happy to help you further. You'll find the contact details of our **commercial team** on our website [www.robjob-usa.com](http://www.robjob-usa.com). Here you will immediately find the **contact details** of the commercial contact point in your region.



### Visit one of our numerous trade show participations or events

We're happy to keep you posted on all **regional trade shows** and **events** where you can meet RoboJob. And of course, we'll also keep you informed about all news regarding **new developments, collaborations and trends** that may be important to you. In your search for more output, efficiency and flexibility, it is important to make the comparison, and to see our products live at work.

You can always find an up-to-date overview of all the **trade shows and events** in our agenda on our Website [www.robjob-usa.com](http://www.robjob-usa.com).



### Find a RoboJob dealer near you

RoboJob has a **comprehensive network of dealers** who can assist you in choosing the right **automation**. A complete overview of all RoboJob dealers, also in your region, can be found on our website [www.robjob-usa.com](http://www.robjob-usa.com). You'll see where and when you can visit them, and what RoboJob automation unit is set up in their showroom.





**Contact RoboJob-USA and you'll  
immediately have the answer to  
your questions**

**Headquarters**

6951 High Grove Boulevard  
Burr Ridge, Illinois 60527  
866-952-9020 and then press 1

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