

ROBOJOB AUTOMATION



AUTOMATION OF TURNING LATHES

Using the Turn-Assist Series

The RoboJob Turn-Assist Series includes a wide range of standard products for the automation of the Nakamura-Tome turning lathes. These solutions differ in dimensions, capacity, workpiece diameter and robot payload. They are all very user-friendly, compact, accessible and visible.

Every automation has the most comprehensive standard functions, which are simple and fast to operate without any robot knowledge. This set-up allows you to get started right away with easy-to-use controls. Extra features and options can be integrated in both the software and the hardware.

TURN-ASSIST ESSENTIAL i

YOUR ESSENTIAL
Standard Automation

TURN-ASSIST 200 i

YOUR COMPACT
Standard Automation

TURN-ASSIST 270 i

YOUR POWERFUL Standard Automation

- > Small runs
- > Workpieces up to Ø 400 mm
- Fixed table with limited stacking height
- > Robot payload: 20 kg or 35 kg
- Integrated

- > Small and medium sized runs
- > Workpieces up to Ø 200 mm
- Powered table with more capacity
- > Robot payload: 12 kg or 20 kg
- Integrated

- > Small and medium sized runs
- > Workpieces up to Ø 270 mm
- Powered table with more capacity
- > Robot payload: 20 kg or 35 kg
- Integrated



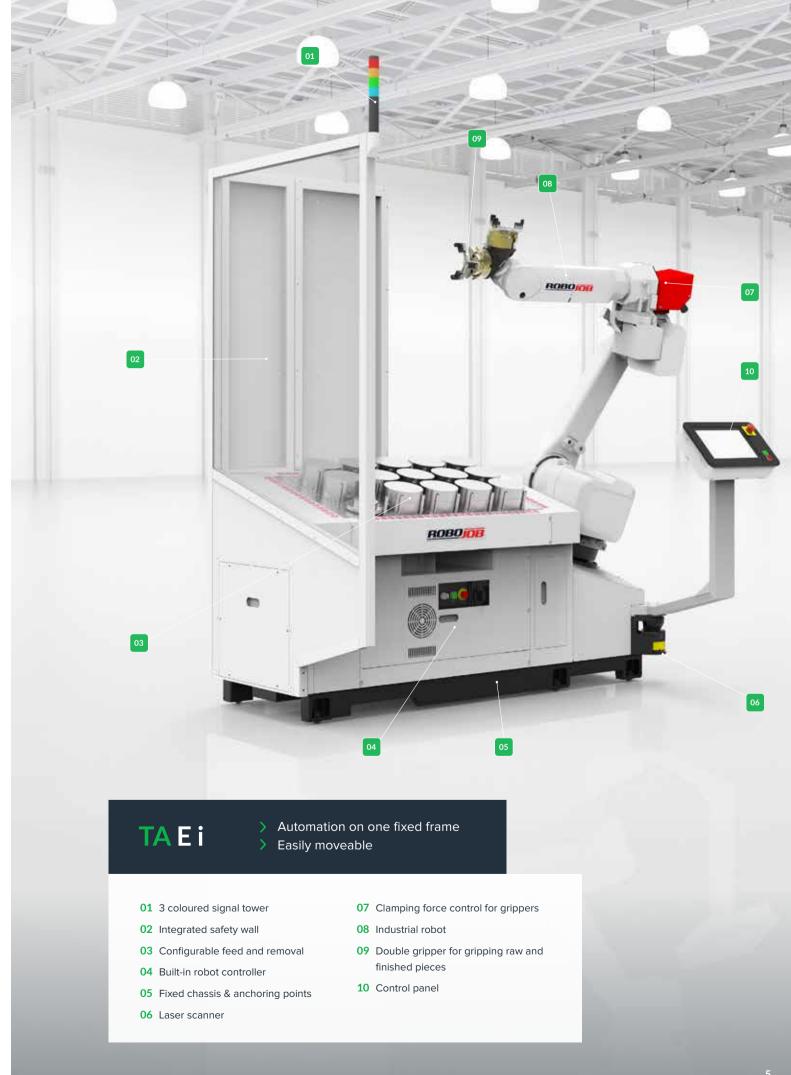


TURN-ASSIST ESSENTIAL i

- > YOUR **ESSENTIAL** STANDARD AUTOMATION
- > FOR **SMALL** RUNS

Using this basic model of the Turn-Assist Series, 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 an adjustable table that may be configured very quickly for different workpiece dimensions using the patented positioning principle. The workpieces may also be positioned by means of freely definable grid plates, for example for special workpiece shapes.

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.



TURN-ASSIST 200 i

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

With the Turn-Assist 200, RoboJob offers you the most compact automation on the market. This model has been specifically developed for the loading and unloading of small and medium sized batches, for workpieces up to Ø200 mm.

This model has 2 servo-controlled stacking plates that allow you to stack a considerable amount of rough and finished components.

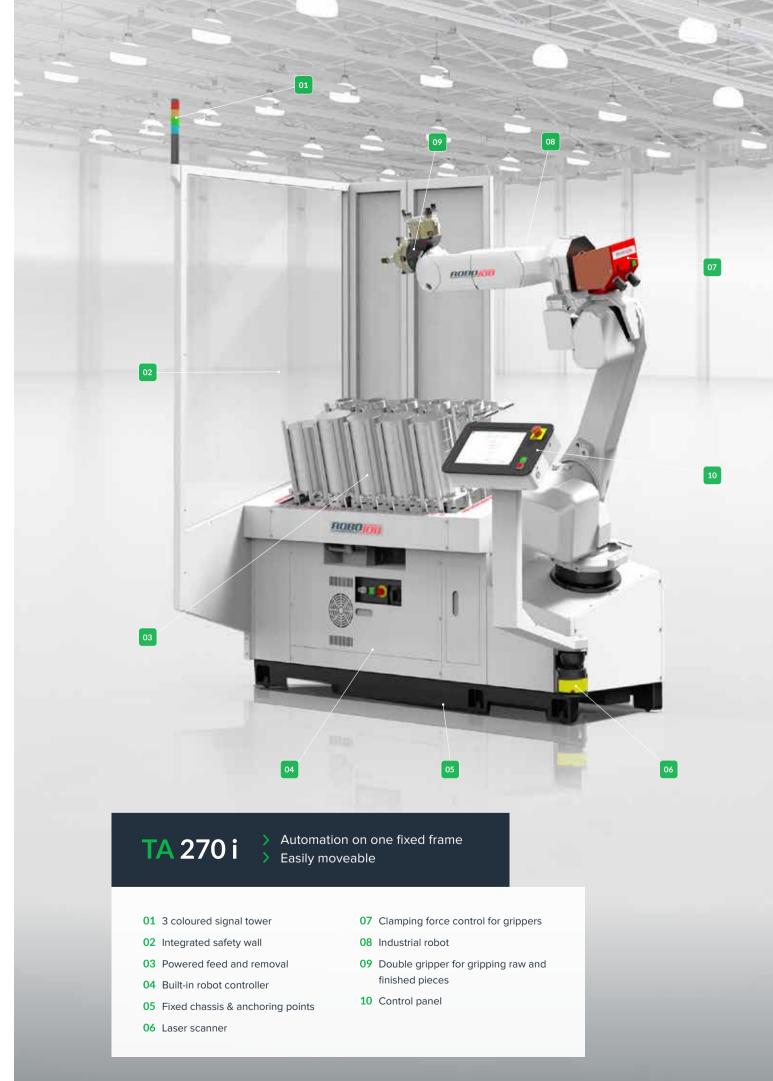


TURN-ASSIST 270 i

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

If you want more: Then you can best choose the Turn-Assist 270, our most powerful model in the Turn-Assist Series. This standard automation unit is equipped with powered feed and removal.

Since the Turn-Assist 270 is even larger than the Turn-Assist 200, you can get even more out of it. This not only applies to the number of workpieces, but also to the size of your workpieces. You can automate workpieces up to a diameter of 270 mm on this model.



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WHY OFFER A ROBOJOB AUTOMATION?

With the RoboJob automation, we can offer you the most userfriendly and most reliable system on the market. Each of our products meets the highest requirements so that you can increase your Efficiency, Output and Flexibility.

We will explain the 4 most important benefits to you:

- > C FLEXIBLE
- > SIMPLE AND SMART
- > CAPACITY
- > EXTREMELY COMPACT



- 1 automation for a wide variety of workpieces
- > Configurable table
- No inlays needed, although possible
- > Patented stacking principle
- > Easy to use gripper concept
- > Integrated airblow
- > Workpiece detection
- > Easily moveable



Three-point gripper 2HD Fix 90° JGZ80



Three-point gripper 2HD Fix 90° JGZ125



Two-point gripper for axes



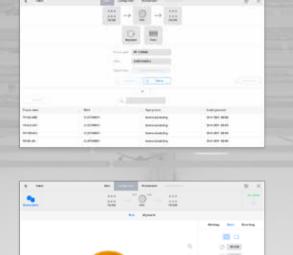


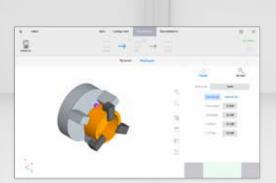
- > Intuitive graphic control
- > No robot knowledge needed
- > 3D visualisations in software
- > 5 minutes' set-up time for new workpieces
- > Batch cycle time management
- > Integrated measure controls
- Custom specific options easy to integrate



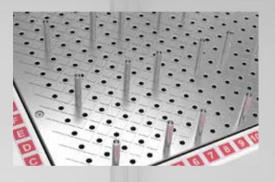
- Highest capacity on the smallest surface
- No grid plates needed, although possible
- > Patented stacking principle
- > Stacking height up to 350 mm
- Optimized capacity for all different workpiece diameters, based on patented principle

ROBOJOB









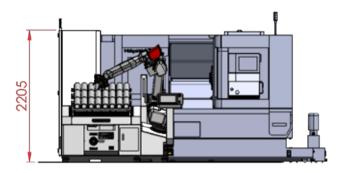


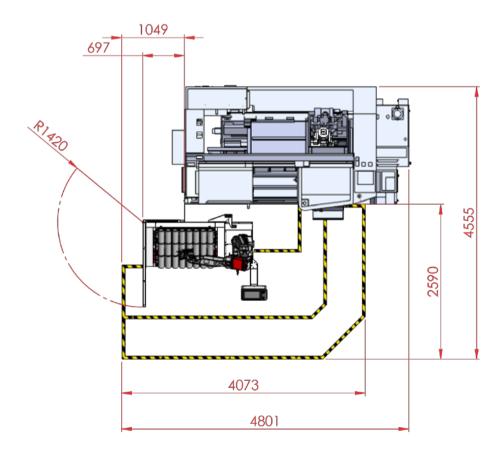






- Easily moveable from one machine to another
- Open protection based on newest technology
- > Safety compliant





Turn-Assist 200 i with a 20kg robot on a Nakamura SC 300-II



OPTIONS AND MODULAR EXTENSIONS

REVOLVING UNIT

For a complete finish of your workpieces, along all sides

- Finished part in 1 single set-up command
- Possible for almost all workpieces
- Compact design, no extra space needed

The revolving unit allows you to process all sides of the workpiece in one single set-up command.

The components 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.

You can use the revolving unit for workpieces of 25 mm to 200 mm long, and with a diameter between 25 mm and 200 mm.





SHAFT EXTENSION

A unique solution for the loading and unloading of shafts

- Increase the possibilities of the Turn-Assist
- > Up to 4 treatments possible in 1 programme
- > For a wide range of shafts and tubes

Using the Shaft extension on the Turn-Assist enables you to also automatically load and unload shafts on the CNC lathe. This innovative solution consists of a configurable rack for shafts, adjustable and reversible 2-point grippers for shafts and an extremely user-friendly software extension.

You can use the Shaft extension for shafts with a diameter of 10 mm up to 80 mm.



ROBOJOB

	TECHNICAL FEATURES	TAEi	TA 200 i	TA 270 i	
	TECHNICAL FEATURES	25 mm	25 mm		
GENERAL DATA	Minimum Ø / length of the workpieces Maximum Ø / length of the workpieces	400 mm	200 mm	25 mm 270 mm	
	Minimum width of the side of hexagonal workpieces	25 mm	25 mm	25 mm	
	Maximum width of the side of hexagonal workpieces	170 mm	170 mm	200 mm	
	Maximum stacking height	80 - 100 mm	2 x 350 mm	2 x 350 mm	
	Maximum stacking weight	600 kg	2 x 300 kg	2 x 450 kg	
	Maximum workpiece weight	14 / 28 kg	7 / 14 kg	14 / 28 kg	
	Maximum width of robot gripper + robot arm	410 mm / 430 mm	330 mm / 410 mm	410 mm / 430 mm	
	Minimum required clearance between robot head and machine opening/spindle	20 mm	20 mm	20 mm	
, o	Width of the automation	1.902 mm	1.475/ 1.632 mm	1.902 mm	
	Depth of the automation	740 mm	740 mm	740 mm	
	Height of the automation	2.202 mm	2.202 mm	2.202 mm	
	Total weight of the automation	1.000 kg	800 / 900 kg	1.000 kg	
	Electrical power	380 VAC	380 VAC	380 VAC	
	Pneumatic usage	< 100 L / min	< 100 L / min	< 100 L / min	
OAD	12 kg payload		•		
PAYLOAD	20 kg payload	•	•	•	
4	35 kg payload	•		•	
	Operator console with touch screen	•	•	•	
	Fastest set-up and change-over times	•	•	•	
	Open and visible configuration with free machine-opening	•	•	•	
	Possibility to set up in front of the machine	•	•	•	
	Removable *	•	•	•	
	Configurable feed and removal using posts	•	•	•	
	Configurable feed and removal using workpiece supports	•			
ES	Possibility to work with grid plates	•	•	•	
ATUF.	Suitable for round components	•	•	•	
STANDARD FEATURES	Suitable for hexagonal components		•	•	
ARE	Stacking of workpieces (see max. stacking height)	•	•	•	
ANE	Powered feed and removal		•	•	
S	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	•	•	•	
	3-colour signal tower	•	•	•	
	Workpiece detection	•	•	•	
	Intuitive graphic control	•	•	•	

	TECHNICAL FEATURES	TAEI	TA 200 I	TA 270 i
SAFETY	Protection with laser scanner			(<u>*</u>)
	Protection with integrated partition			•
	Protection with light screen	0	0	0
	Protection with separate screen wall	0	o	0
	Protection with separate transparent wall	0	0	0
	Protection with sliding gates	0	0	0
OPTIONS	Laying aside in a box on the stacker	0	o	0
	Automatic messenger service	0	0	0
	Loading of shafts on a TA 200		0	
	Loading of shafts on a TA 270			0
	Unloading of multiple disc components from 1 rough component	0	0	o
	Pull & Break feature	o	o	0
	Revolving unit	0	0	0
	Cycle time optimisation with Revolving unit	0	o	10
	Automatic shutdown of automation and CNC machine	0	0	0

		TAEI		TA 200 I		TA 270 I	
	TUENING-LATHE	20 KG	35 KG	12 KG	20 KG	20 KG	35 KG
COMPATIBILITY	AS200/WT100/WT150/WY150/NTJ100	8			0	8	
	WT250/WY250/SC200						
	WT300/SC300	0	0			0	8

Avadable is utandura

Mest sold combination

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Only in combination with the laser scarner and integrated partition.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT METHODS MACHINE TOOLS

978-433-5388 sales@methodsmachine.com methodsmachine.com



