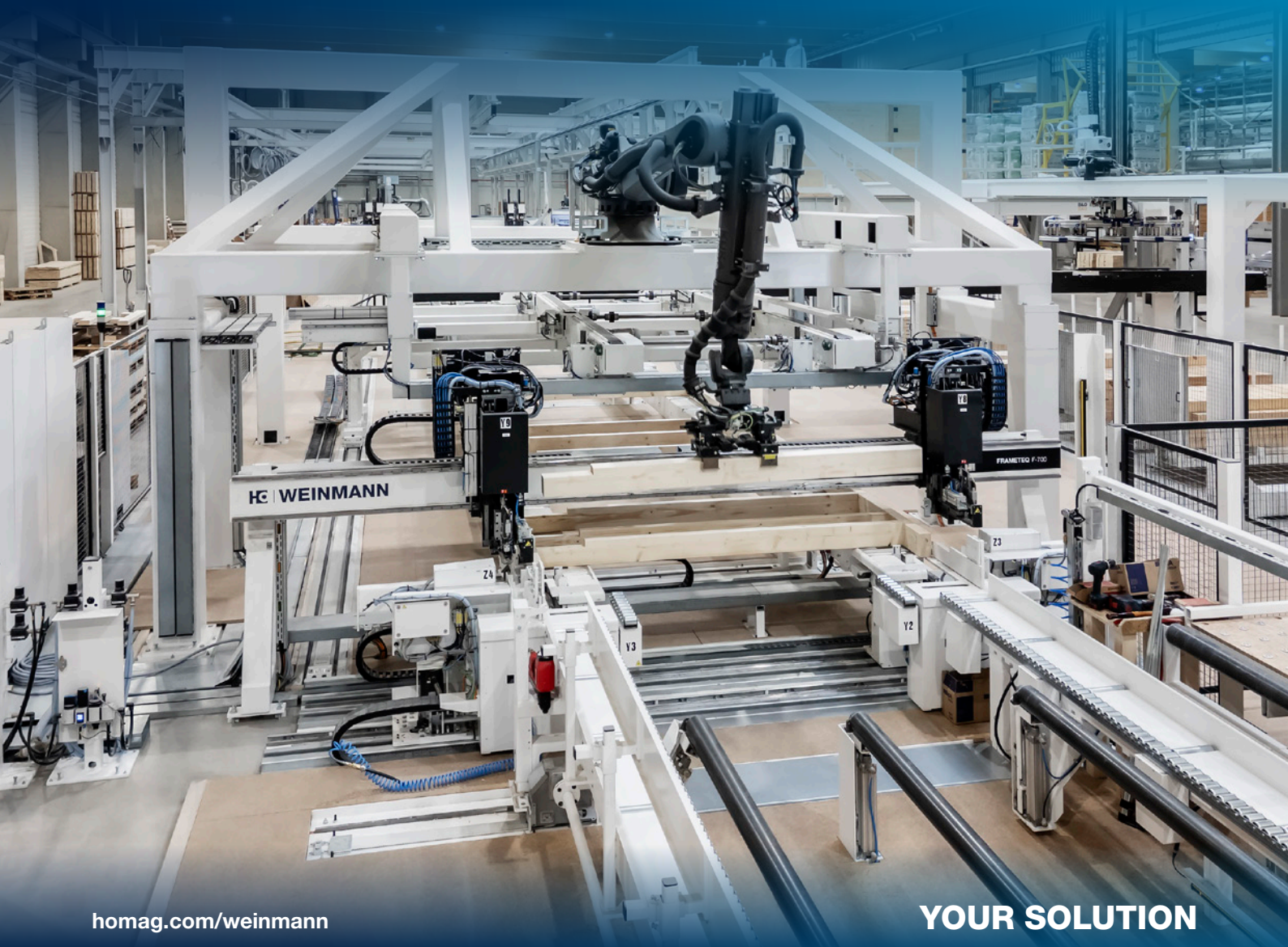


# Smartprefab for highest automation.

**Smart robotics meets timber construction.**

FEEDBOT F-500

FEEDBOT W-500



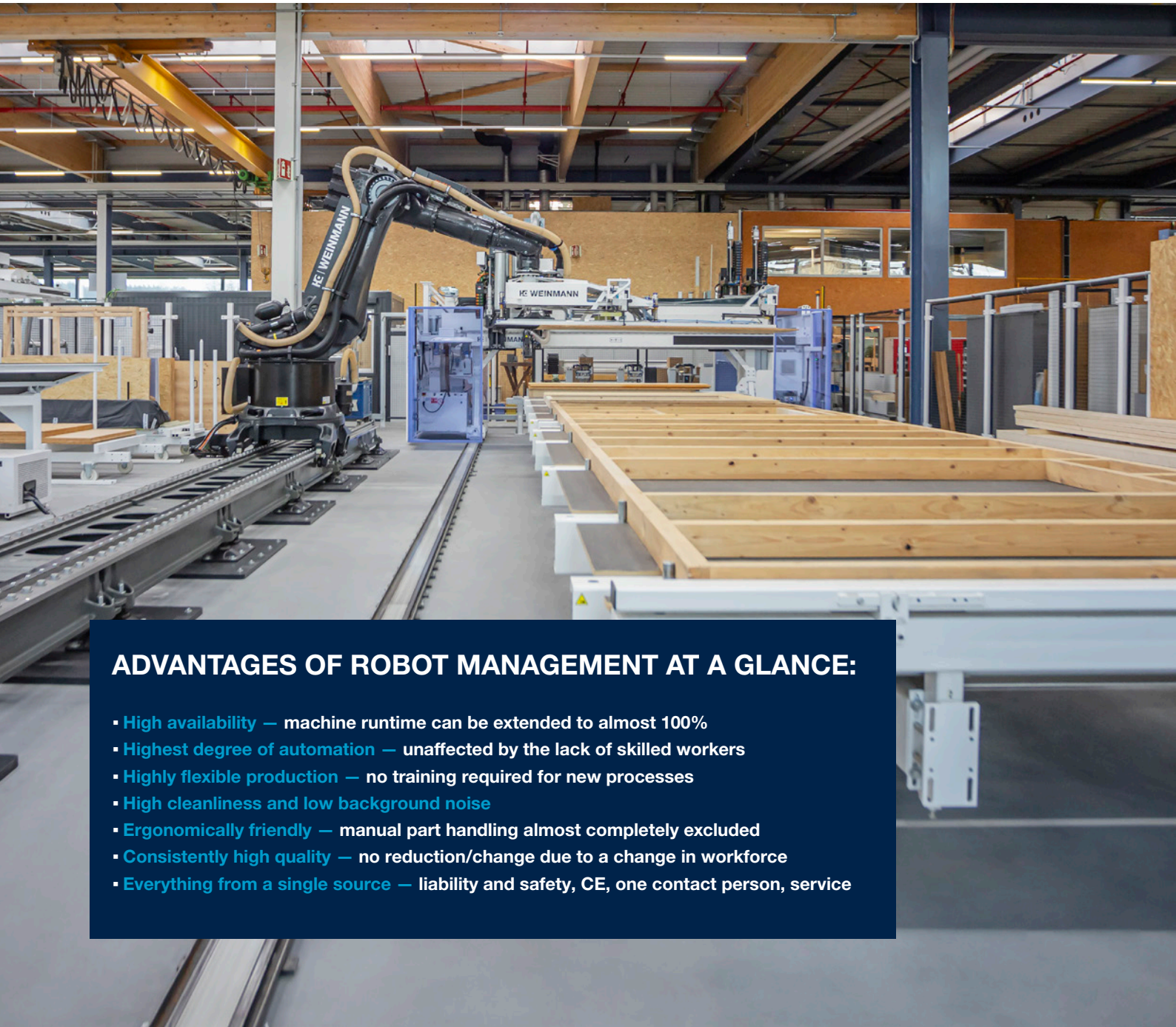


# FEEDBOT F-500 | W-500

Precise. Flexible. Automated.

Robots have long been established in the furniture industry. But robots are also being used successfully in timber construction. Timber house manufacturers already used them as standard in frame work production. In this type of application, the robot is integrated into a WEINMANN frame work station and is used to insert various studs into the frame

work. However, robots can also be used to automate the placement of sheathing materials on a frame work. We are continuously working on further robotic solutions and are also pleased to implement new requirements from customer projects in the field of robotics.



## ADVANTAGES OF ROBOT MANAGEMENT AT A GLANCE:

- **High availability** — machine runtime can be extended to almost 100%
- **Highest degree of automation** — unaffected by the lack of skilled workers
- **Highly flexible production** — no training required for new processes
- **High cleanliness and low background noise**
- **Ergonomically friendly** — manual part handling almost completely excluded
- **Consistently high quality** — no reduction/change due to a change in workforce
- **Everything from a single source** — liability and safety, CE, one contact person, service

# FEEDBOT F-500

Automated production of frame works

Almost 100% availability, high repeat accuracy and precise material handling: Robots are reliable partners and increase the cost-effectiveness of timber construction production, fully automatically.

In combination with the frame work station from the FRAMETEQ series, the robot allows studs and plates for wall elements with windows and doors or special elements such as gables to be inserted fully automatically. Regardless of whether it's standard or special studs, the robot inserts a wide

variety of studs into the frame work with high precision. In this process, the six-axis robot transports stud weights of up to 75 kg without any problems.

Maximum automation and technical availability of the robot minimizes downtimes and increases the added value of the machines.



High production flexibility: Depending on the element, the studs are inserted crosswise, longitudinally or diagonally.



Short cycle times: The robot inserts the wood into the frame work at a speed of up to six cycles per minute.

## Technical data

| FEEDBOT F-500            |          |
|--------------------------|----------|
| Part length (mm)         | 780–3500 |
| Part width (mm)          | 40–190   |
| Part height (mm)         | 80–300   |
| Maximum part weight (kg) | 75       |



# FEEDBOT W-500

## Flexibility and automation in element production

The FEEDBOT W-500 robot is the ultimate tool for automatically and precisely placing and fixing sheathing materials on the frame work. The robot can be combined with a multifunction bridge to create a flexible production cell. This production cell functions autonomously and takes the degree of automation in timber construction to the next level. The high speed increases efficiency and productivity in industrial production.

### Provision of panel material

The panels are held in reserve in various dimensions in a stack of unprocessed parts. Both full-format and cut panels can be deposited.



### Exact alignment and positioning

The robot removes the panels from the unprocessed parts stack fully automatically, aligns them, deposits them with a high level of precision and, if required, fixes them in place on the frame work.

### Individual working area

The linear axis of the robot can be up to 40 m long, allowing the robot to cover a large working area.



## Technical data

| FEEDBOT W-500             |                           |
|---------------------------|---------------------------|
| Panel placement speed     | Up to two panels per min. |
| Min. panel size (mm)      | 200 x 300 mm              |
| Max. panel size (mm)      | 1250 x 3810 mm            |
| Max. panel weight (kg/m2) | Up to 20 kg/m2            |





## LIFE CYCLE SERVICES

Improved performance, more efficient processes, faster help, assurance of availability and smarter working

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Largest global service network in the industry with over 1,350 personnel.

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For a smooth start, we only let proven experts manage your setup.

### OPERATION & CONTROL

After teaching your personnel the intuitive control system, our clever apps help to make the operator's life much easier.

### MAINTENANCE & SERVICING

To keep things running, we're happy to take a preventative approach. You decide how often and how intensively you want the support to be. As we all know, prevention is better than the cure.

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### TRAINING & EDUCATION

With classroom, live online or eLearning training, we offer flexible options to help you get knowledge. We conduct over 4,000 customer training courses every year, and we even have our own training centers in 19 countries

### MODERNIZATION & IMPROVEMENT

Our modernization program is tailored to your machines and processes. We can evaluate your data and situation and advise you on the next step.

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On request, we analyze all your processes with proven tools and procedures (LeanSixSigma). We have a large, certified team of experts for this purpose.

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1,350 service experts worldwide

### We get things moving:

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**WEINMANN Holzbausystemtechnik GmbH**

info@weinmann-partner.de  
www.homag.com/weinmann

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