



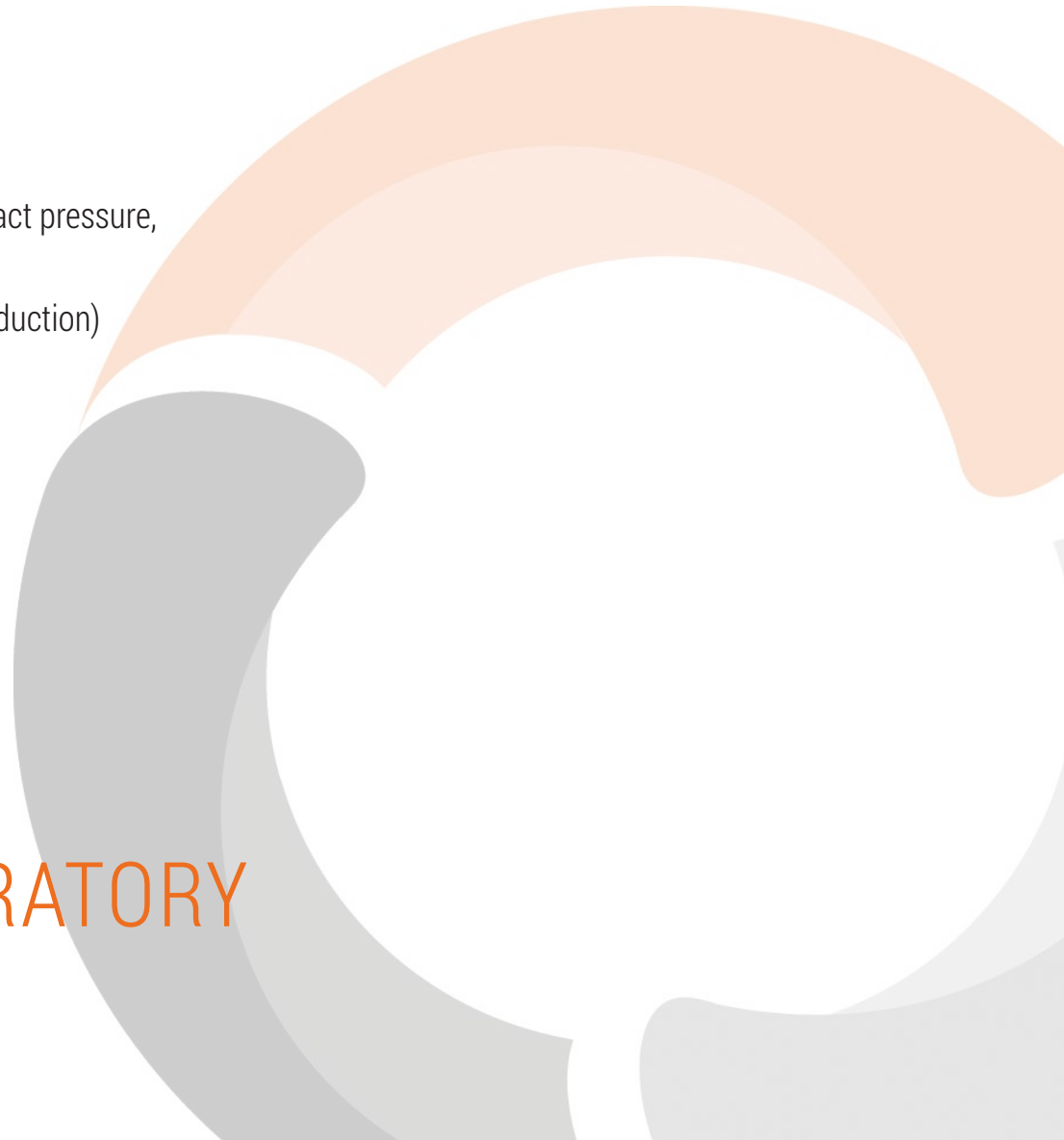
# SYN TEST PTM – PLATE TESTING MACHINE

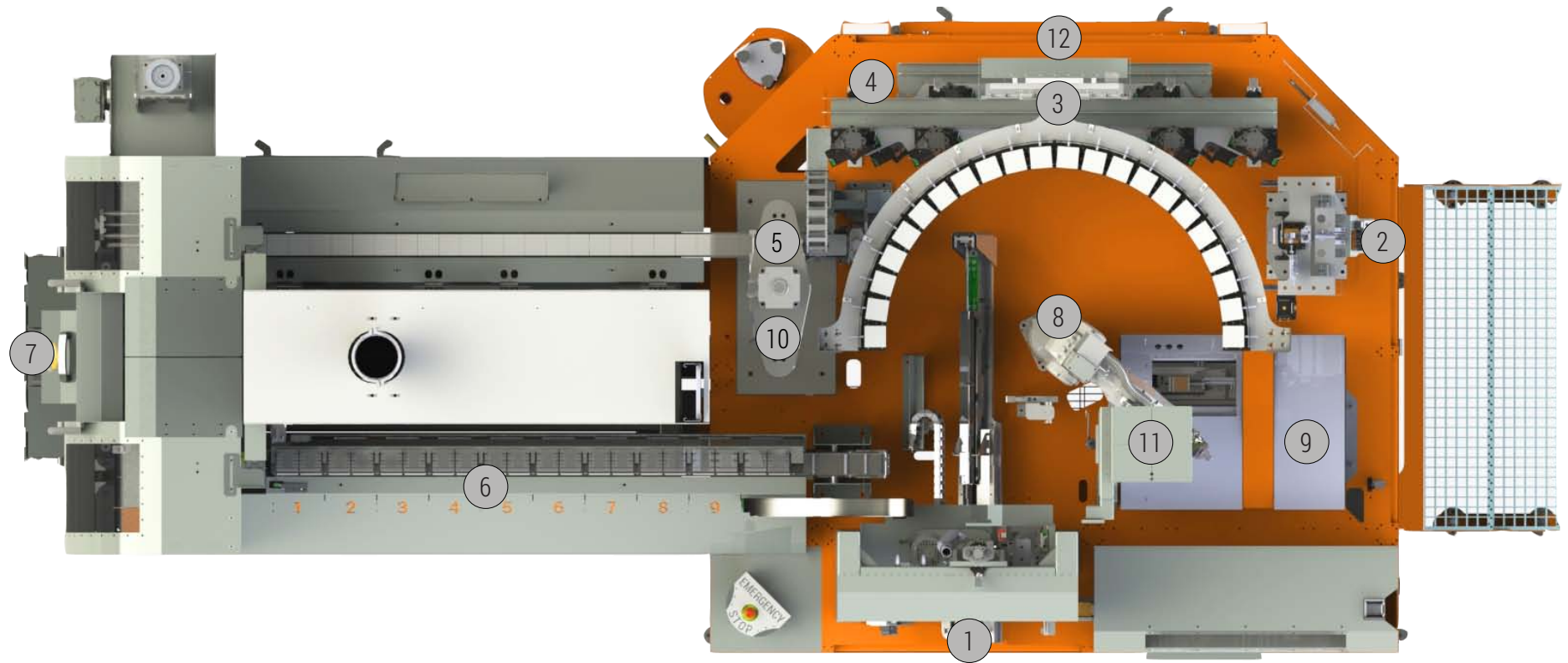
**This innovative system is used for automated transverse tensile testing as well as for automated surface soundness testing of MDF, HDF, OSB and chipboard according to EN 319 and EN 311.**

## THE BENEFITS

- Automatic sample preparation
- Repeatability (adhesive quantity and pattern, curing time, contact pressure, centering of test specimen)
- Limitation of tolerances (reduction of adhesive addition in production)
- 24/7 use possible
- Relief of laboratory personnel
- Operation by non-laboratory personnel possible
- Destructive and non-destructive testing possible
- Real-time error detection and optimization of production
- Increased production speed
- Reduced scrap
- Short amortisation period

## AUTOMATIC TEST LABORATORY





## EQUIPMENT OF THE PLATE TESTING MACHINE

- |                                       |                                |
|---------------------------------------|--------------------------------|
| 1 Supply and cleaning of raw material | 5 Vertical tensile test        |
| 2 Measuring and weighing station      | 6 Visual check                 |
| 3 Adhesive station                    | 7 Cleaning and returning yokes |
| 4 Assembly and hardening line         | 8 Robot with double gripper    |

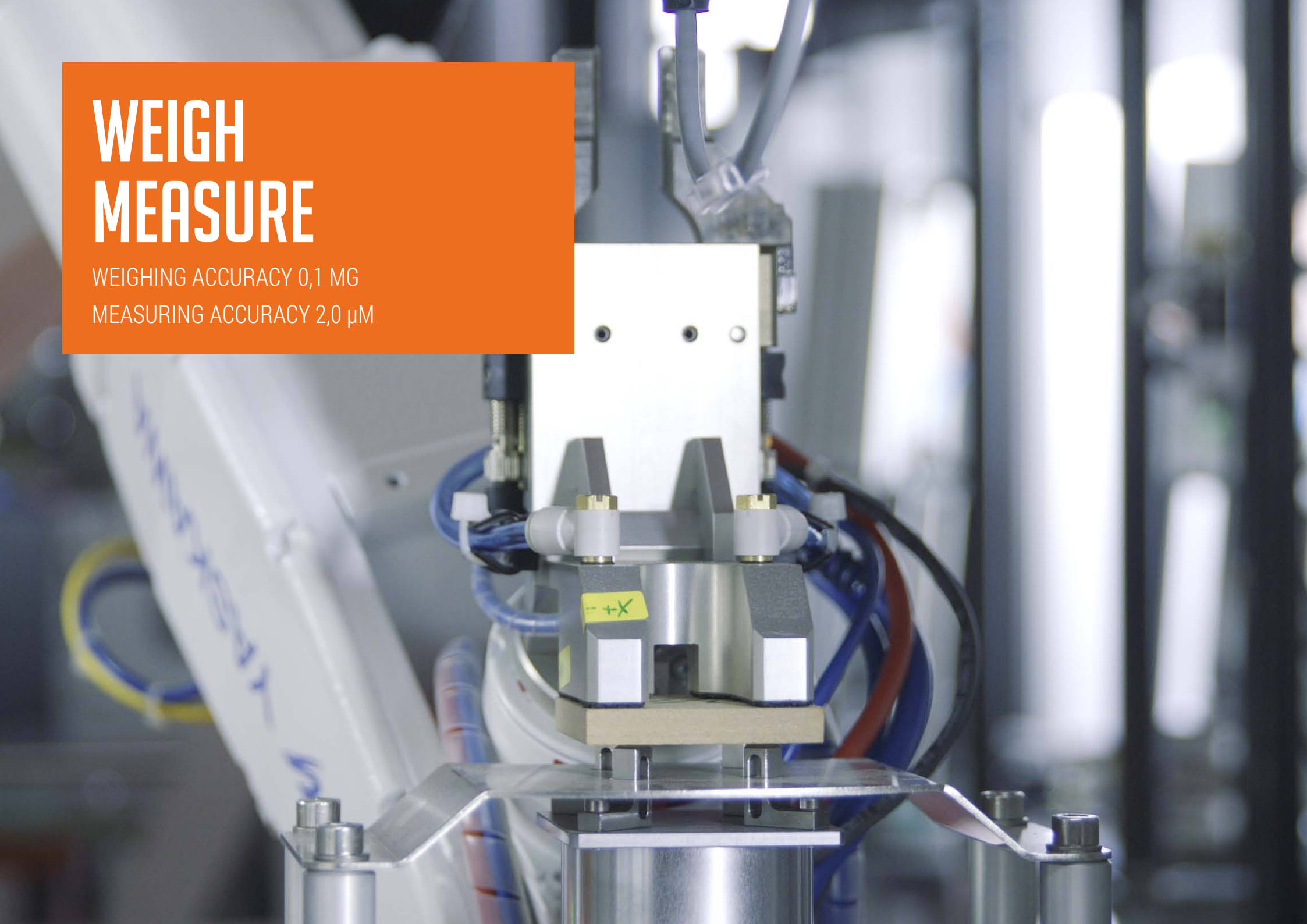
## OPTIONAL

- |                                   |
|-----------------------------------|
| 9 Raw density profile measurement |
| 10 Surface soundness test         |
| 11 Microwave moisture measurement |
| 12 OSB adhesive station           |

# WEIGH MEASURE

WEIGHING ACCURACY 0,1 MG

MEASURING ACCURACY 2,0  $\mu$ M



A close-up photograph of a robotic arm in a laboratory or industrial setting. The arm, which is white and grey, is equipped with several blue and red hoses. It is holding a small, square metal plate with a spiral pattern. A green needle is positioned to apply adhesive to the plate. The background is slightly blurred, showing other equipment and a scale.

# SAMPLE PREPARATION

ACCURATE ADHESIVE APPLICATION

# PRESS CURING

PRECISE PRESSING FORCE  
DEFINED CURING TIME





# TRANSVERSE TENSILE TEST EN 319

PLATES DIMENSION 50x50x5-60MM (LxWxH)

# CLEANING ALUMINIUM YOKES

THOROUGH REMOVAL OF WOOD SCRAPS



A white Yaskawa industrial robot arm is positioned in a factory environment. The arm is equipped with various cables (blue, red, black) and a sensor unit at its end effector. It is positioned over a large, curved, yellow and white object, likely a mold or part of a machine. The background shows a typical industrial setting with metal structures and a polished floor.

# RAW DENSITY PROFILE MEASUREMENT

OPTIONAL

# MICROWAVE MOIS- TURE MEASURING

OPTIONAL



A close-up photograph of a mechanical testing device. A hammer is positioned above an anvil, ready to perform a test. The background is blurred, showing industrial equipment. An orange text box is overlaid on the right side of the image.

# **SURFACE SOUND- NESS TEST EN 311**

OPTIONAL



IN COOPERATION WITH  
**Fagus**  **GreCon**

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VIDEO LINK

