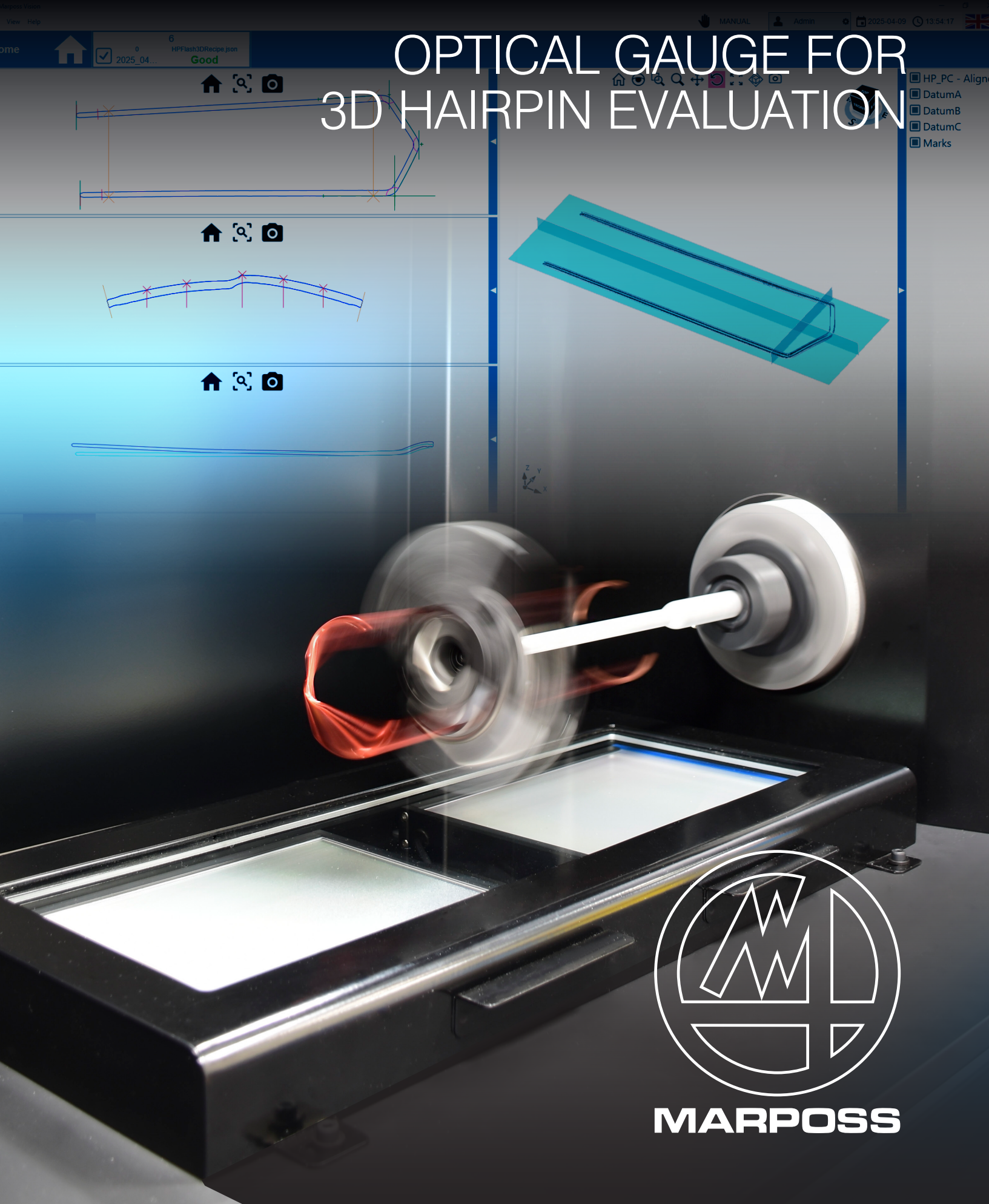


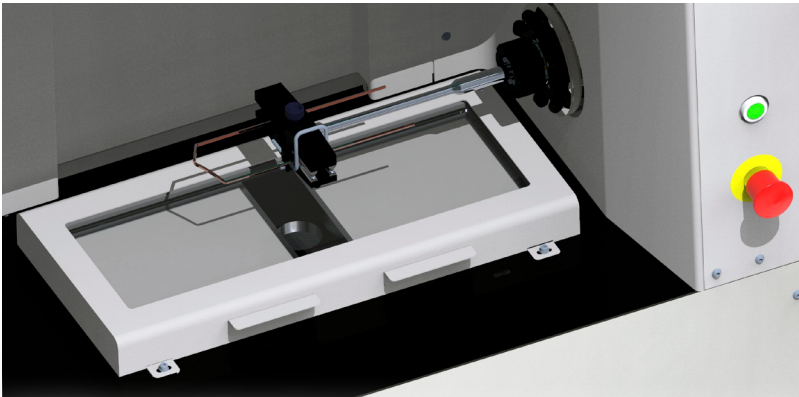
HAIRPINFLASH 3D

OPTICAL GAUGE FOR
3D HAIRPIN EVALUATION



MARPOSS

HAIRPINFLASH 3D, uses a non-contact measurement system based on multiple image acquisitions taken during part rotation using a part reference system that does not modify its shape capable of performing dimensional verification of the main geometric characteristics of hairpins by means of 3D reconstruction of the shape of the part.



The 3D reconstruction allows the extraction of the main geometric measurements of the checked part such as leg lengths, widths in various sections, bending angles, length of the stripped sections, profiles, heights in lateral projection and measurement of the so-called "leg kick".

To perform the measurement cycle, simply position the hairpin on the fixture and press the start cycle button: the piece will start to rotate and the matrix cameras will start to acquire the images by synchronizing the acquisition with the illuminators and the encoder.

The 200 acquired images will be merged together for the generation of the point cloud from which the features described above will be extracted. Upon specific request, it is possible to evaluate the feasibility of additional measures based on specific inspection needs. Overall dimension and weight for table top version (H x W x D): 2450 x 1200 x 1000 mm @700kg

BENEFIT

- ▶ **Contactless**
- ▶ **3D part reconstruction**
- ▶ **Fast (about 1 min)**
- ▶ **Flexible for different part type**
- ▶ **Designed for workshop and laboratory environment**
- ▶ **Optional statistic elaboration and data transfer with Marposs Quick-SPC software available**

TECH SPECS

- ▶ **2 x 12 Mpxl monocromatic camera**
- ▶ **1 x high resolution encoder**
- ▶ **High contrast and low distorsion telecentric lens**
- ▶ **Green light source for optimal contrast with reddish color of hairpins (no matter the coating PA, PAI or PEEK)**
- ▶ **Framed surface 138 x 445 mm (including a 71 mm blind area)**

