

VisionLine:

Visible benefits with
image processing.



Increased process capability with VisionLine.

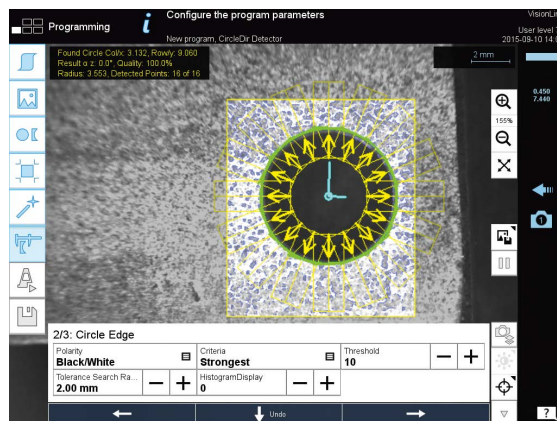
TRUMPF feature recognition visualizes your processes and ensures that they are always carried out at precisely the right location. Features such as edges or drill holes are automatically recognized by VisionLine, thereby increasing the process reliability and efficiency of your production. The use of VisionLine enables positioning requirements to be sharply reduced because the location of the feature is directly transferred to the machine or laser control. During setup this also greatly facilitates administration of type and variant diversity. Furthermore, you achieve even higher seam quality, e.g. via more precise positioning of the beginning and end of the weld seam. This saves you time and money!

Just do it yourself.

You don't need previous knowledge of image processing to integrate feature recognition into your production process. In addition to the usual setup, calibration and teach-in, these tasks can be configured directly by the operator via the new user interface. After selecting the feature to be recognized and configuring just a few more parameters, the operator can test, adjust or store the new feature recognition directly. One command in the laser program enables feature recognition to be run and the result to be used for location determination or corrections, so everything is easily integrated into the production process. No need to worry about communicating with the laser – just select the relevant VisionLine program and the control does the rest for you.

Production with VisionLine: Your benefits at a glance.

- 1 Increased process capability.
- 2 Easy to operate.
- 3 Traceability.



Retracing made easy.

Benefit from our expertise in everything related to sheet metal processing. Image processing VisionLine, optimized for standard features in sheet metal, can be easily integrated into your production. To guarantee the traceability of your process, image data can be saved at any time – either manually or automatically. And if you have any questions concerning VisionLine, we'll be happy to support and advise you.

Integration with TRUMPF product	Optics: PFO20, PFO33, PFO3D, BEO070, CFO	Laser system: TruLaser Cell 3000
Features	Circle, e.g. drill hole, mark / Line, e.g. edge / Segment, e.g. kerf / Intersection, e.g. register mark, corner	
Processing time	150–250 ms ^[1]	
Resolution/Measuring accuracy	2 to 80 µm ^[2]	
Image field size	1.7 x 1.2 mm ² to 55 x 41 mm ² [2]	
Camera	Gigabit Ethernet CCD camera, 656 x 494 or 1296 x 966 pixel Dimensions: ca. 40 x 40 x 48 mm	
Panel PC	15" or 10", with touch screen	
Interface to your image processing system	Possible	

^[1] Dependent upon feature, illumination, processing optics and computer architecture. ^[2] Dependent upon configuration of processing optics, observation and camera. Subject to alteration. Only specifications in our offer and order confirmation are binding.