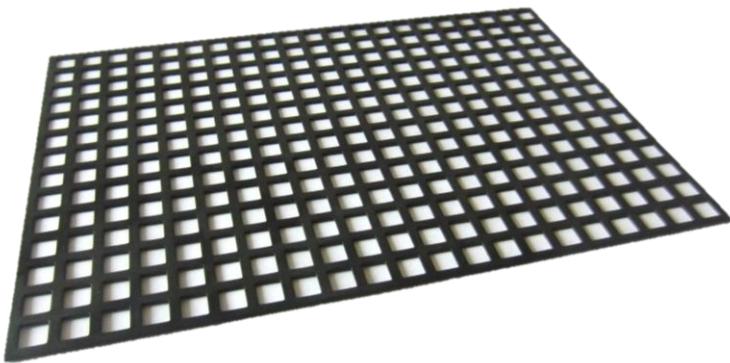# Calibration Toolkit

Machine builder and plant manufacturer can focus on the application – VELTRU offers the robots and additional technology required for system integration in Pick-and-Place.

- Calibration Set with gripper and reference plate
- Case for transport and storage
- Calibration Grid for Machine Vision
- Fully integrated in Calibration Wizards
- Help videos and documentation available

The VELTRU Calibration Toolkit allows using the C10 Application Templates to perform all necessary calibration steps of Pick-and-Place applications. It covers machine vision distortion, encoder resolution and sensor to conveyor to robot calibrations. Multi robot system support robot to robot calibration as well. The compact case allows safe transport and convenient storage of the equipment.

The Calibration Gripper is adjustable in height covering a wide range of TCP Offsets. The needle can be reversed to use the rounded part for calibration on the plate and the tip for verification – maintaining the exact same TCP Offset.

While the Calibration Grid is specifically designed for the V10 Vision, it can be used for most other machine vision systems as well. Its special coating minimizes reflections.

For successful system integration, especially in multi robot systems, VELTRU offers logistics concepts and technology for communication. Customers profit from fast time to market, flexibility to adapt to specific market needs in their niches and a hands-on support.

The source code training application gives system integrators a jump start for fast time to market while maintaining all options for adaptation to specific market needs.

Technical data – Calibration Toolkit

Calibration Grid
standard sizes:

small	200 x 298 mm
medium	298 x 398 mm
large	494 x 606 mm

Other sizes upon request. Always based on square holes of 10mm and 14mm spacing.

Calibration Gripper
Adjustable to 50, 100 and 150 mm TCP Offset
Compatible with all Tool Carrier Plates

Calibration Plate
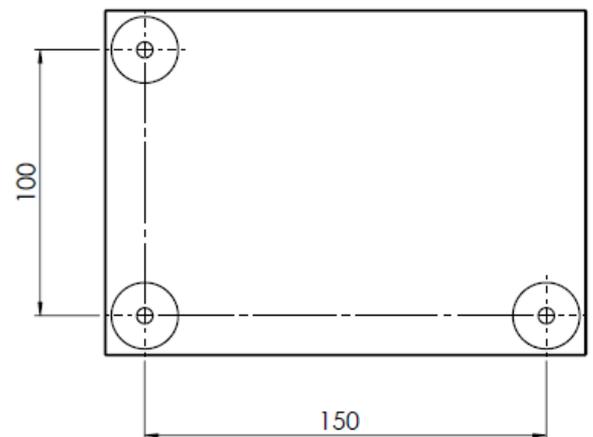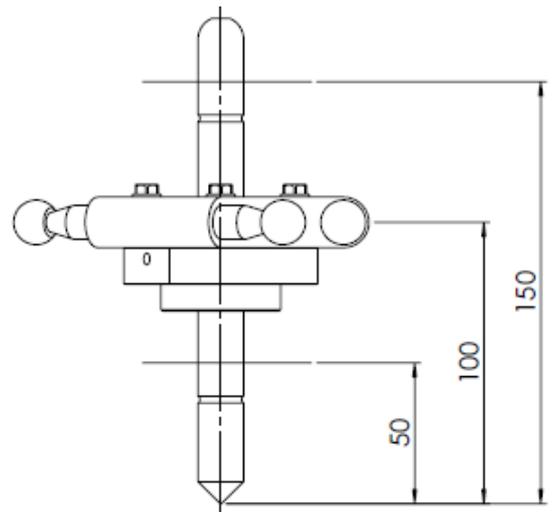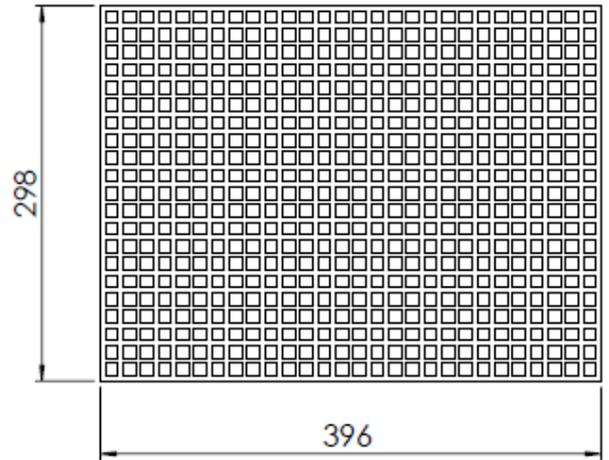Outer dimension   130 x 180 mm
Other sizes upon request

Case
for transportation and storage
Outer dimension   255 x 210 x 77mm.
Weight   1,5 kg

All specifications are subject to changes without notice.

VELTRU

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