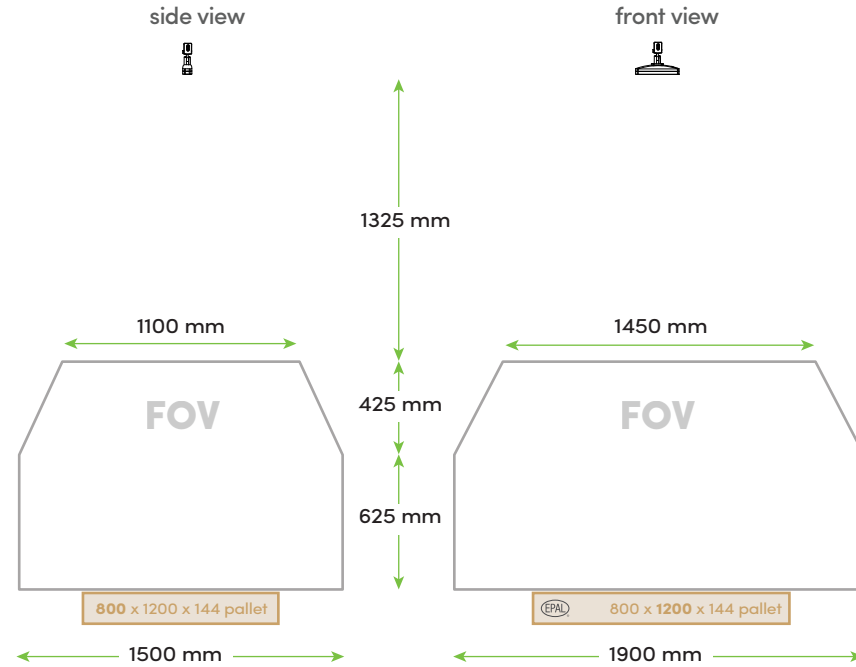
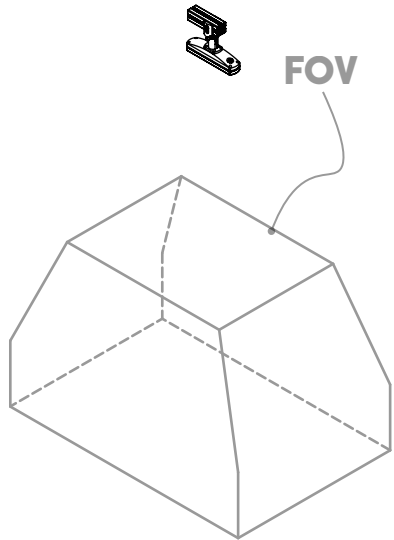


### FIELD OF VIEW (FOV) Dimensions



To be visible for Pick-it, all parts or items of interest must be inside the **field of view (FOV)** of the 3D camera.

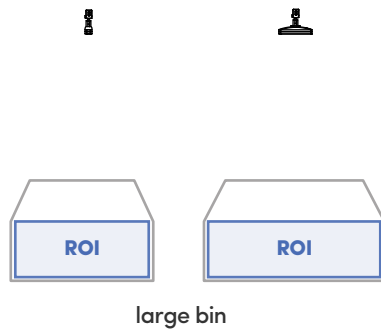
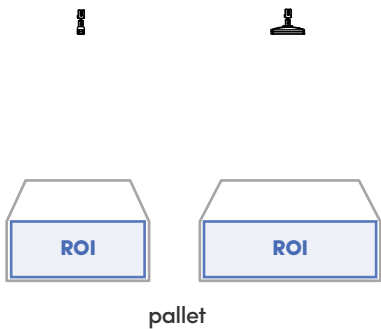
The **region of interest (ROI)** can be seen as a 'bounding box' that fits within the FOV of the 3D camera. This box defines where the actual application takes place. You can define this ROI in the Pick-it software.

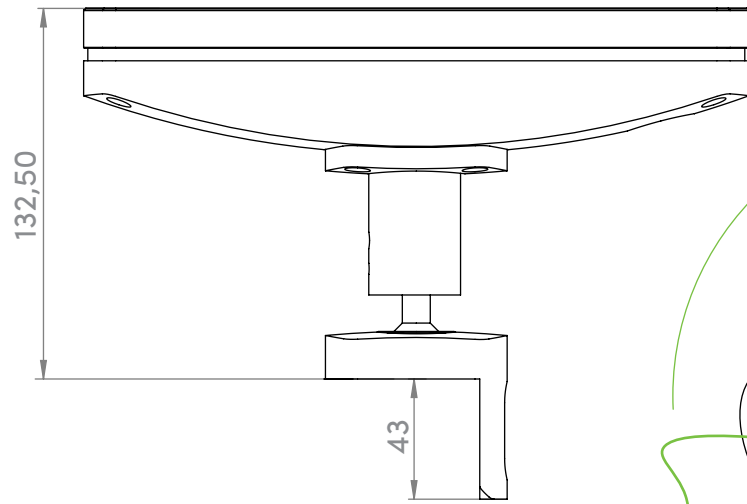
The possible dimensions of the ROI depend of the distance between the 3D camera and your ROI.

**Bringing your application closer to the camera will improve image quality and shrink the potential ROI volume.**

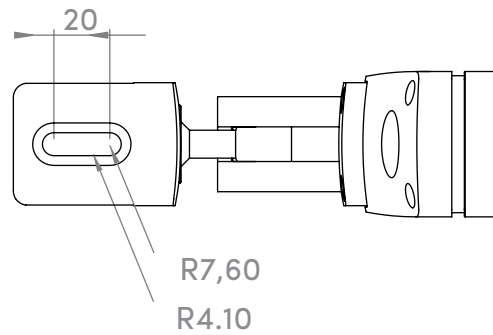
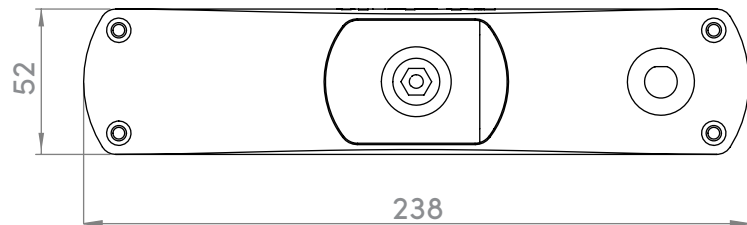
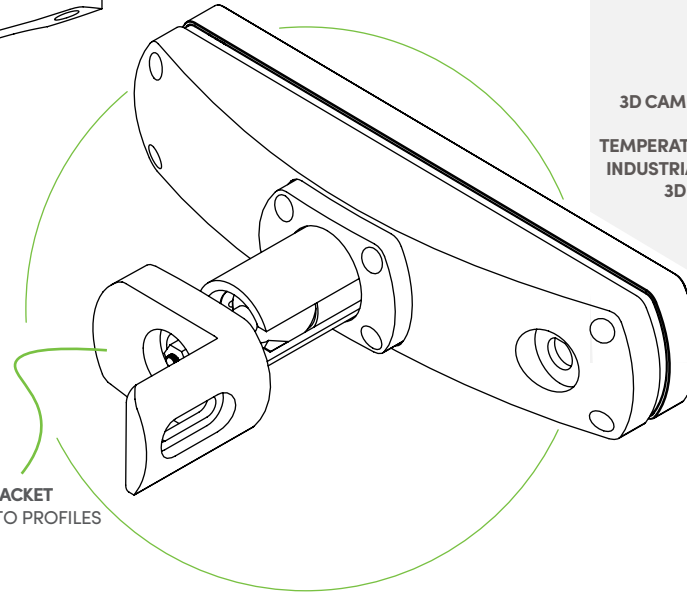
**Bringing your application further from the camera will lower image quality and enlarge the potential ROI volume.**

### REGION OF INTEREST (ROI) Example applications





L-BRACKET  
MOUNTS TO PROFILES

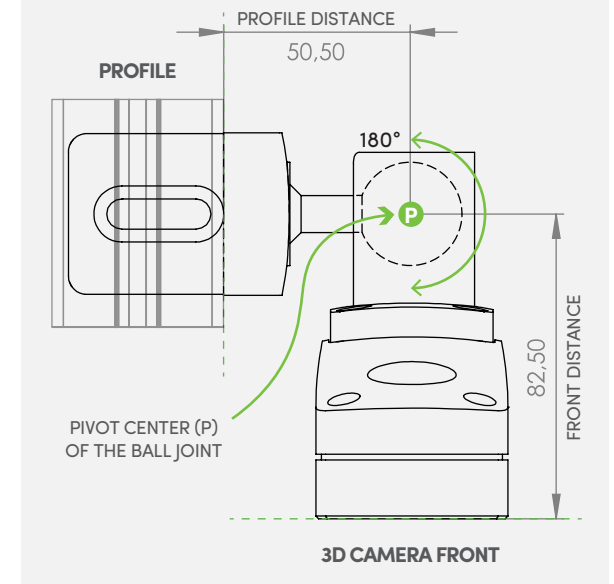


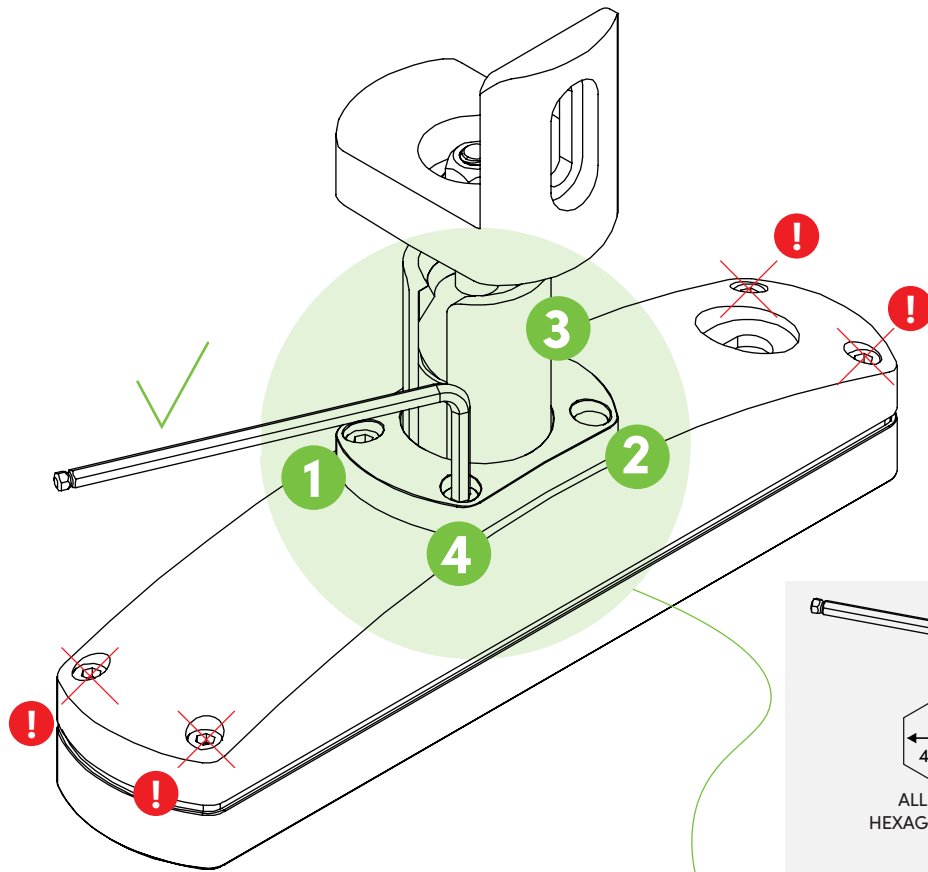
All dimensions in mm.

### GENERAL SPECIFICATIONS

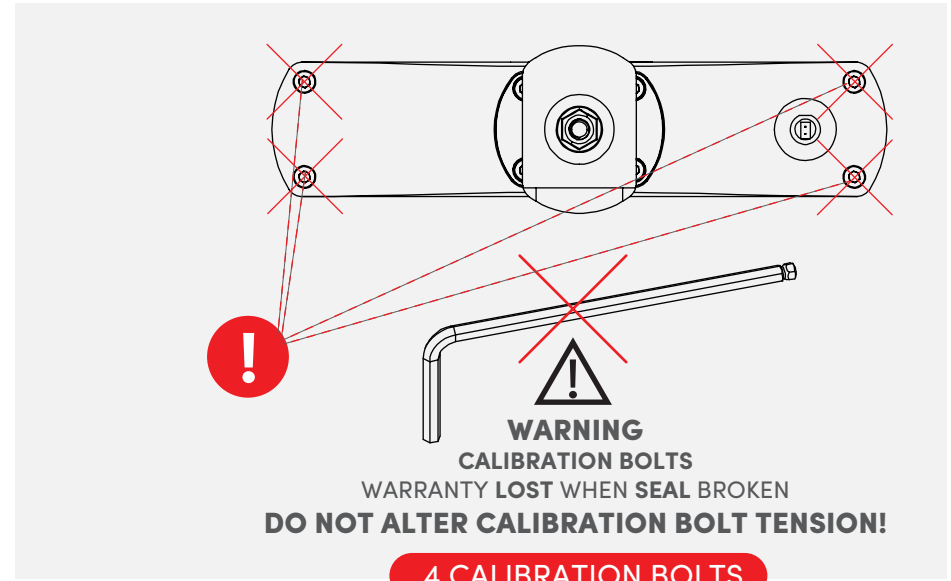
3D MEASUREMENT METHOD	STRUCTURED LIGHT
EXTERNAL LIGHTS	NOT NEEDED
IMAGE PROCESSING SPEED	30 fps
ACCURACY	< 3 mm
REPEATABILITY	< 1 mm
3D CAMERA WEIGHT W/O L-BRACKET	895 gr
3D CAMERA WEIGHT TOTAL	1030 gr
TEMPERATURE OPERATING CONDITIONS	+10°C / +35°C
INDUSTRIAL GRADE HUMIDITY QUALITY	IP55
3D CAMERA CONNECTION TO PC	USB3
PC CONNECTION TO ROBOT	ETHERNET TCP/IP
ROBOT LIBRARY	ABB, UR UNIVERSAL ROBOTS, STAUBLI, KUKA, FANUC, YASKAWA
CONFORMS TO	CE, FCC

### BALL JOINT PIVOT (P)

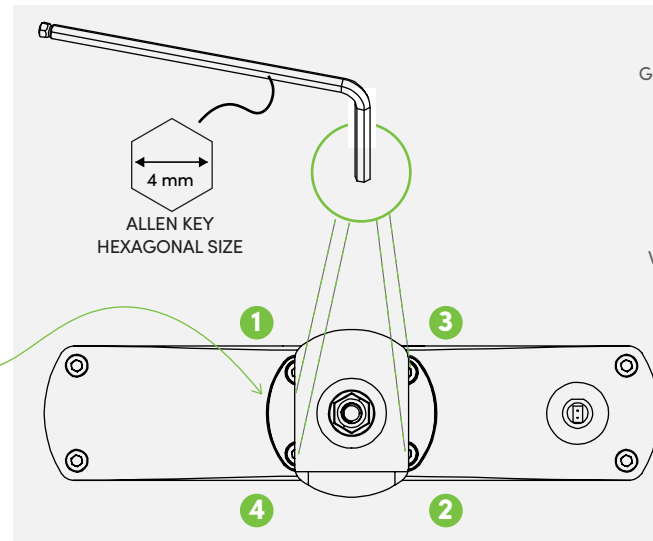




ADJUST THE 4 TENSIONING BOLTS AS INDICATED AT THE RIGHT TO ALTER THE BALL JOINT TIGHTNESS AND OBTAIN A FIXED JOINT OR A FLEXIBLE JOINT DEPENDING YOUR APPLICATION AND NEEDS.



**4 CALIBRATION BOLTS**



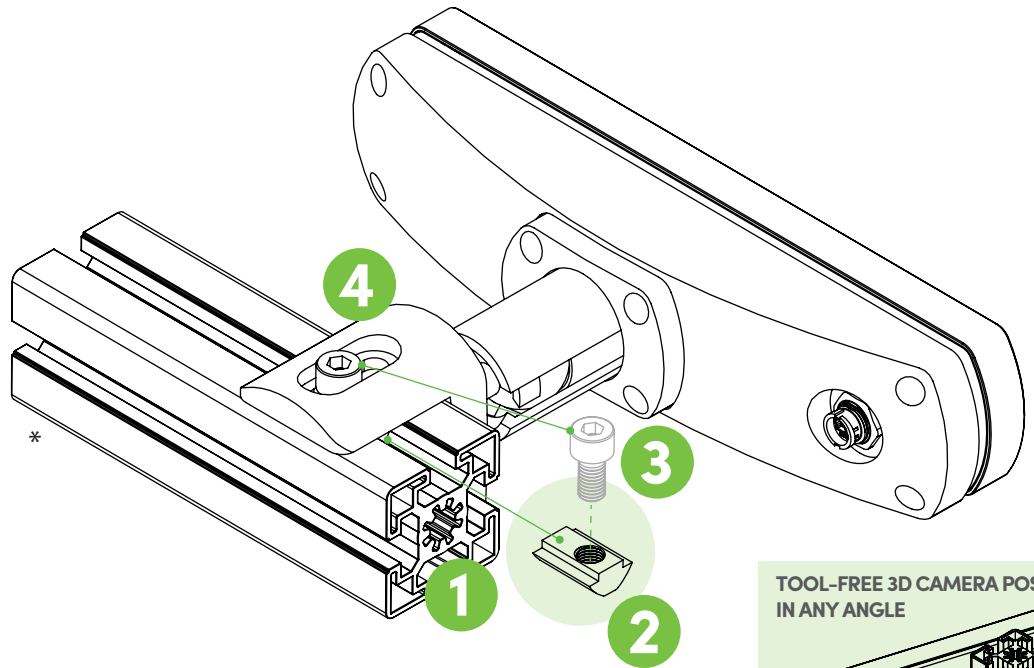
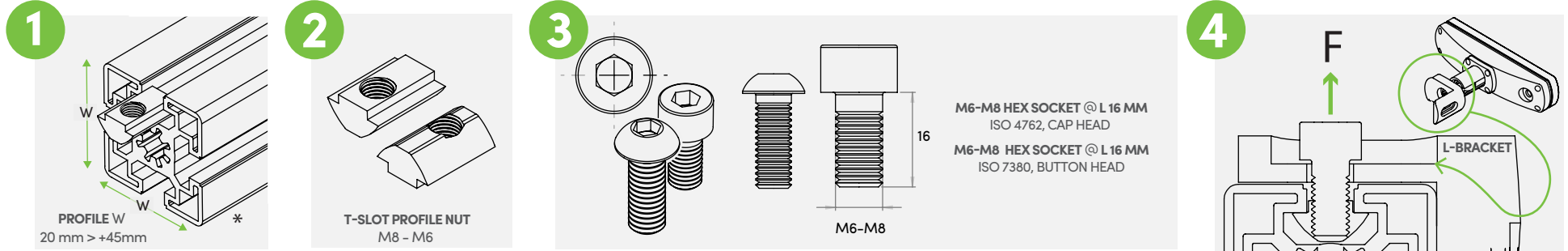
**i** GRADUALLY ADJUST THE TENSIONING BOLTS OF THE BALL JOINT IN SMALL STEPS, FOLLOWING THE X-PATTERN, AS INDICATED BY THE NUMBERS IN THE FIGURE LEFT, UNTIL THE RECOMMENDED TENSION IS REACHED PER BOLT

**!** FOLLOW THE BELOW NOMINAL BOLT TENSION GUIDELINES WHEN ADJUSTING THE TENSIONING BOLTS OF THE BALL JOINT TO ALTER THE JOINT'S CLAMPING FORCE.

**NOMINAL BOLT TENSION GUIDELINES**

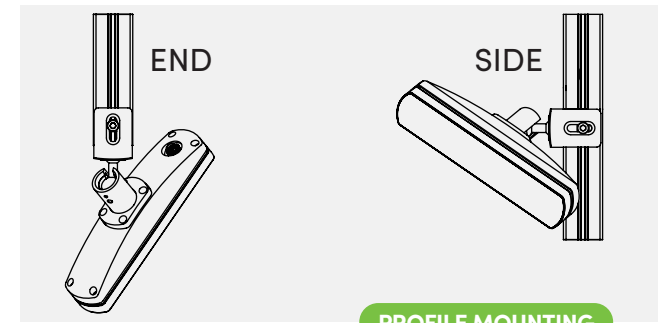
FIXED JOINT (IMMOBILIZED) = 2 NM  
 FLEXIBLE JOINT (MOBILE) = 0.75 NM

**4 TENSIONING BOLTS**

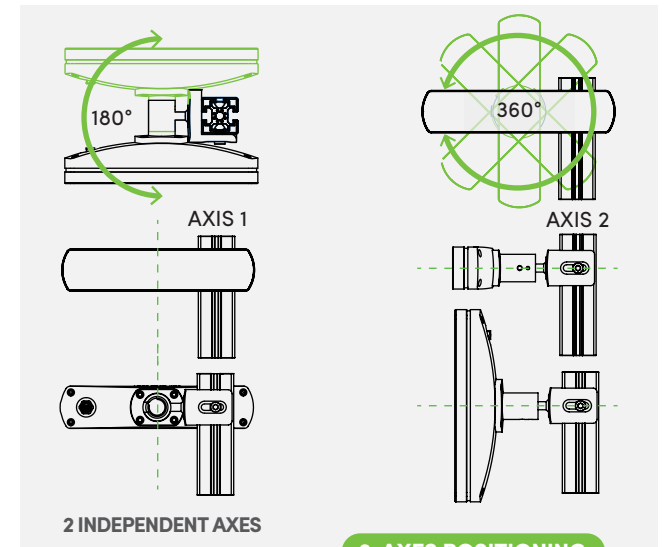


\* Profile type shown above is for illustrative purposes only. A wide range of profile types is supported by the L-bracket. Contact us for further info.

SOFTWARE SUPPORTS ON-ROBOT MOUNTING AND STATIONARY MOUNTING



PROFILE MOUNTING



2-AXES POSITIONING



RELEASE & LOCK BALL JOINT

