

Pick-it L Camera Field of view

Typical usage: Picking of large (minimum dimensions of 150x150x50mm) objects from pallets and bins.

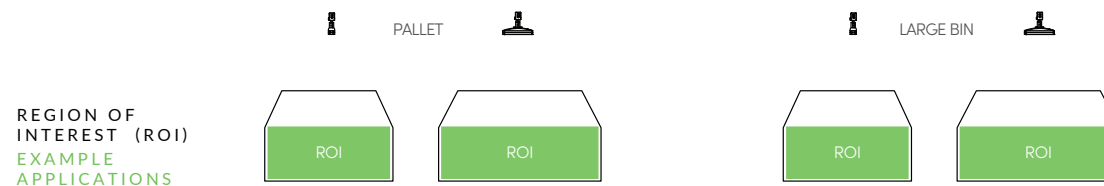
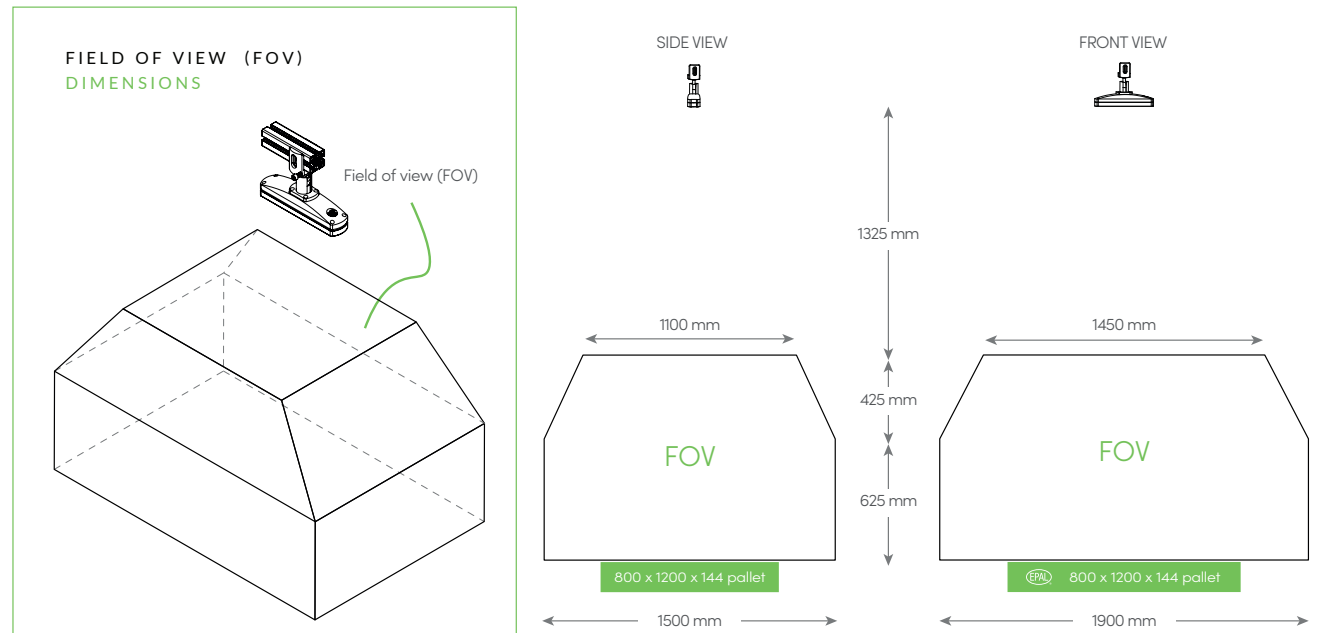
To be visible for Pick-it, all parts or items of interest must be inside the **field of view** (FOV) of the 3D camera.

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.

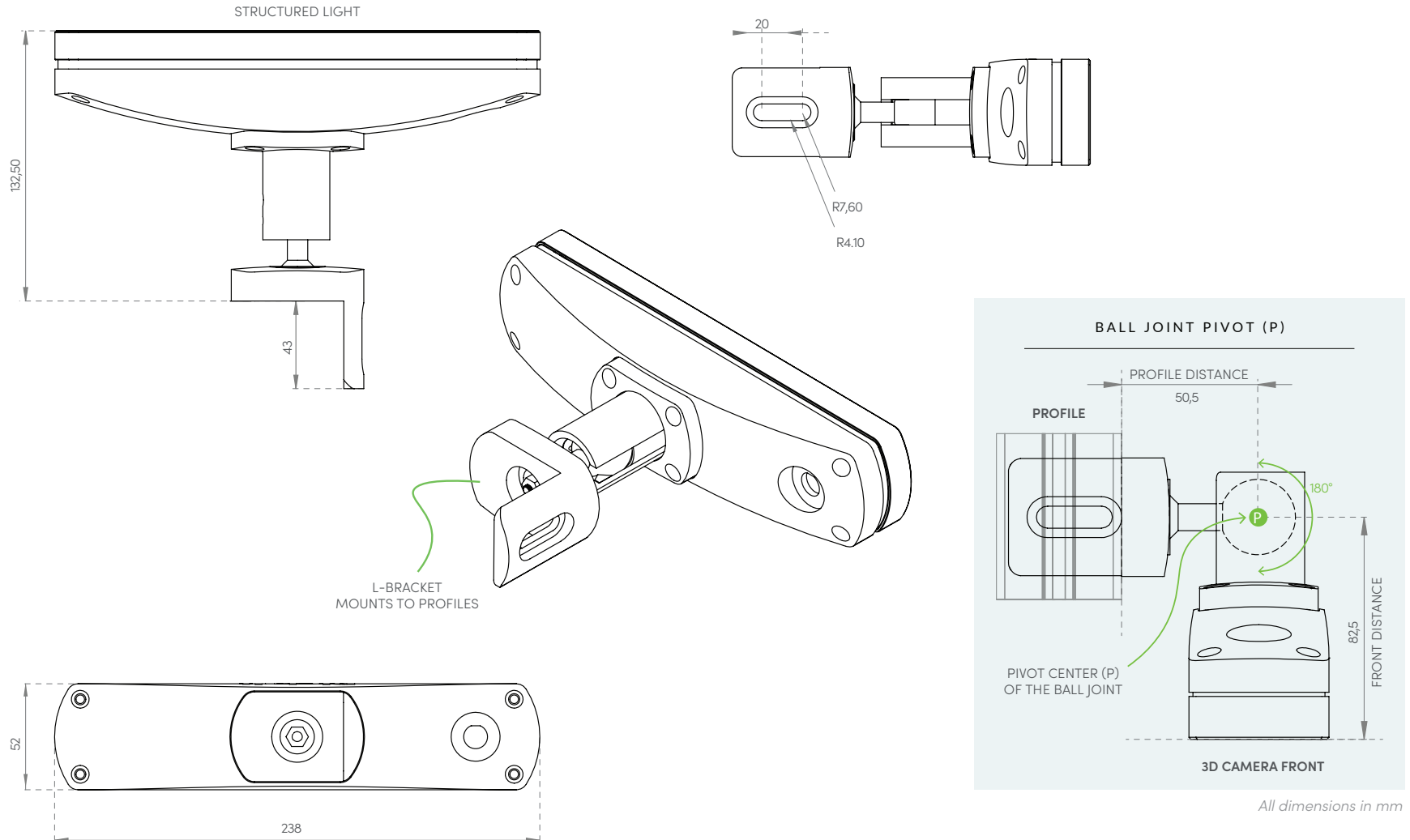
The possible dimensions of the ROI depend of the distance between the 3D camera and your ROI.

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.



Pick-it Camera Dimensions



Pick-it Facts



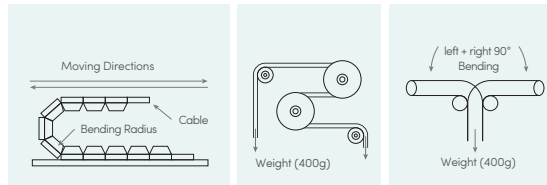
CAMERA TECHNICAL SPECIFICATIONS

3D measurement method	Structured light
Image processing speed	30 fps
3D Camera accuracy	< 3mm
3D Camera repeatability	< 1mm
3D camera weight	1030 g
3D camera connection to PC	M12 (USB) - USB3
PC connection to robot	TCP/IP over Ethernet
Power supply	USB3 5VDC
Temperature	5°C to 40°C
Humidity	-95% @ 40°C (non-condensing)
IP rating	IP55
Vibrations	Operating, 2 Grms, 5-500 Hz, 3 axes
Conforms to	CE, FCC



CAMERA CABLE TECHNICAL SPECIFICATIONS

- 10m**
- Industrial M12 camera connector**
- High-Flex / Continuous-Flex**
 - Type-U (R= 67,5mm - 5.000.000 times)
 - Type-S (R= 60mm - 1.000.000 times)
 - 90° Tick-Tock bending (R= 60mm - 1.000.000 times)



PROCESSOR

- Power consumption**
 - While turned off: 25W
 - Booting: 100W
 - Idle: 60W
 - Heavy processing: 130W

- Technical specifications**
 - Processor: 6 cores (12 threads) at 3.7 Ghz
 - 19 inch server: rack compatible (2U)
 - Temperature: -20°C to 70°C
 - Vibrations: Operating, 5 Grms, 5-500 Hz, 3 axes
 - IP rating: IP54
 - Power supply: 9-32V DC 160W
 - Humidity: -95% @ 40°C (non-condensing)

WORKS WITH YOUR ROBOT

FANUC

STÄUBLI

KUKA

YASKAWA

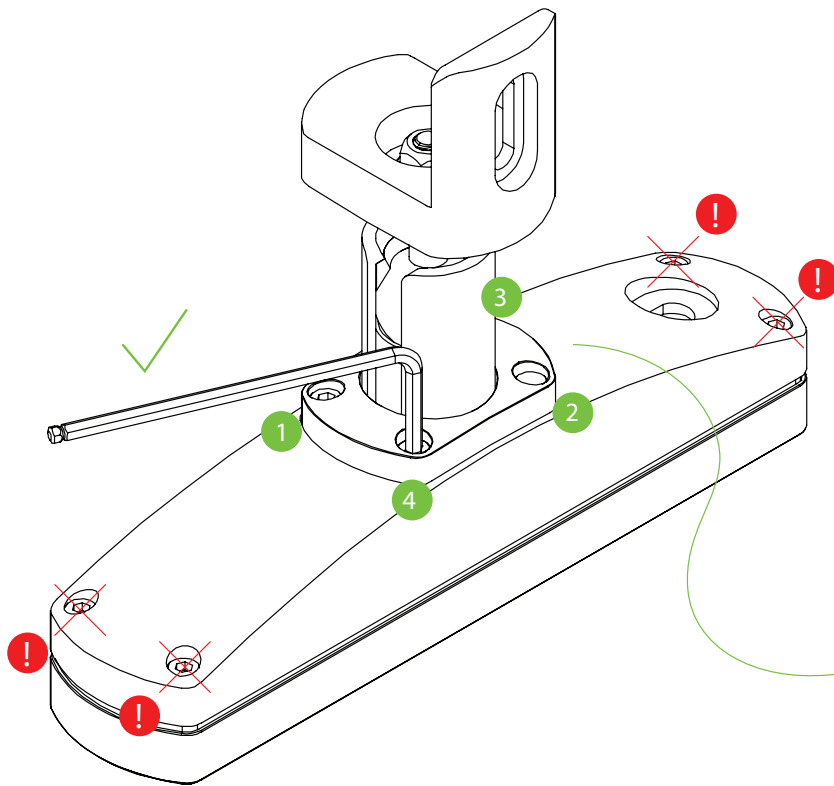
ABB

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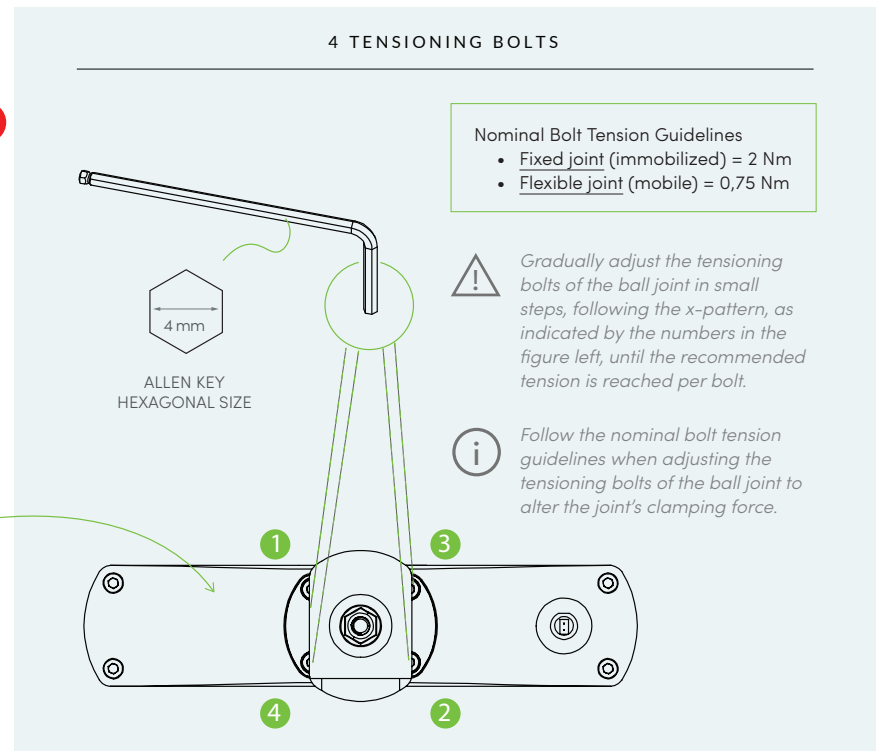
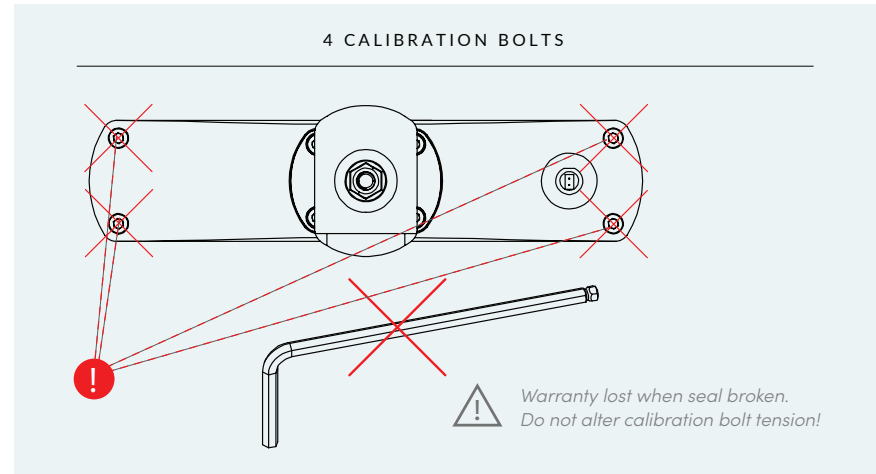
FRANKA EMIKA

AUBO ROBOTICS

Ball Joint Tension

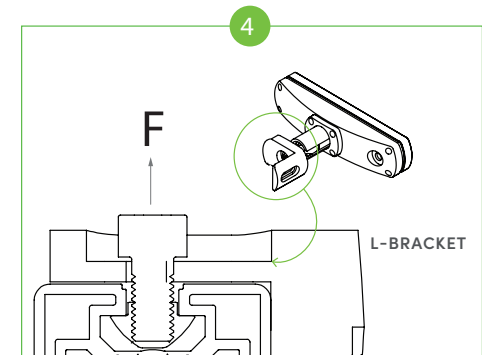
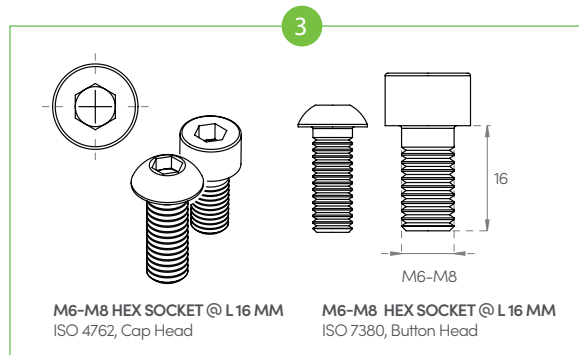
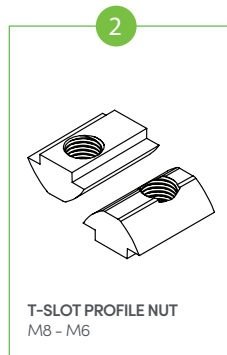
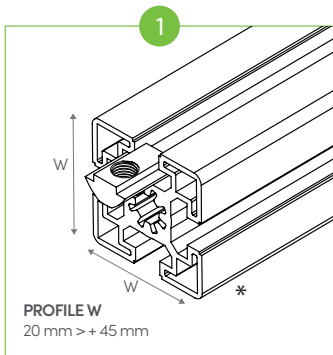
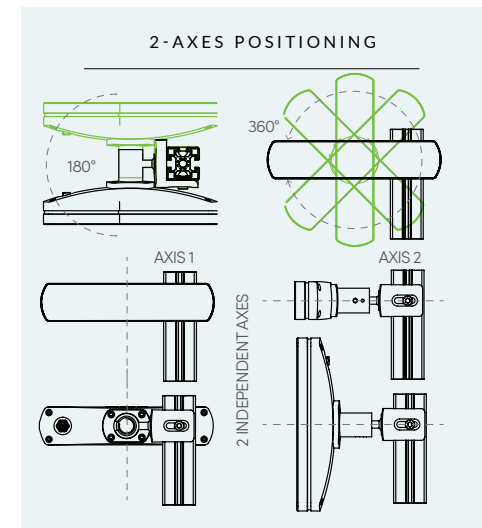
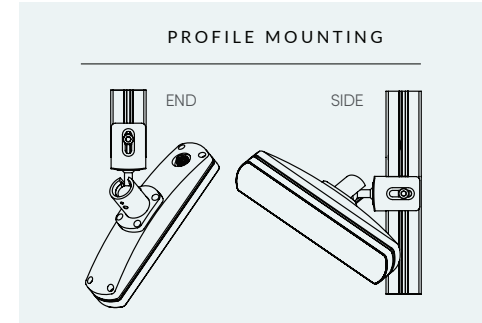
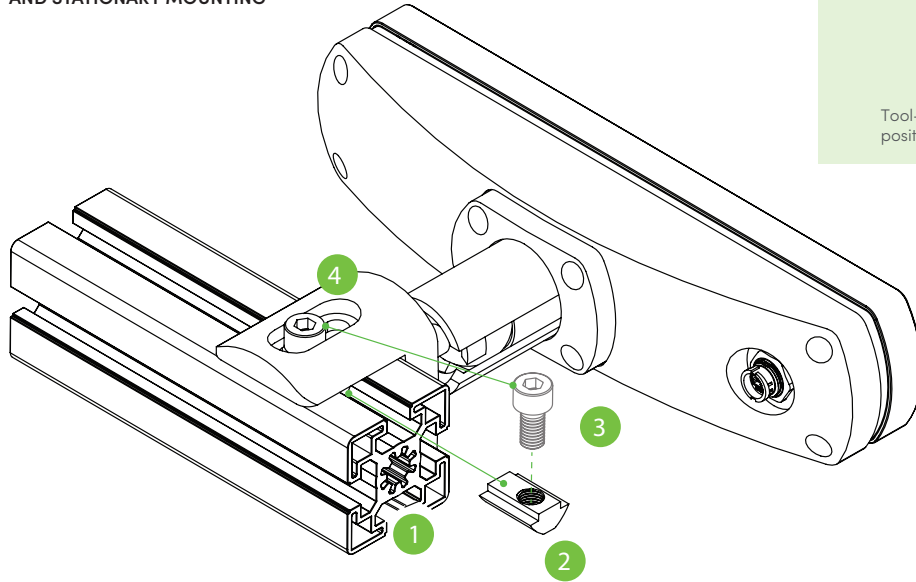


Adjust the 4 tensioning bolts as indicated at the right to alter the ball joint tightness and obtain a fixed joint or a flexible joint depending your application and needs.



Stationary Mounting

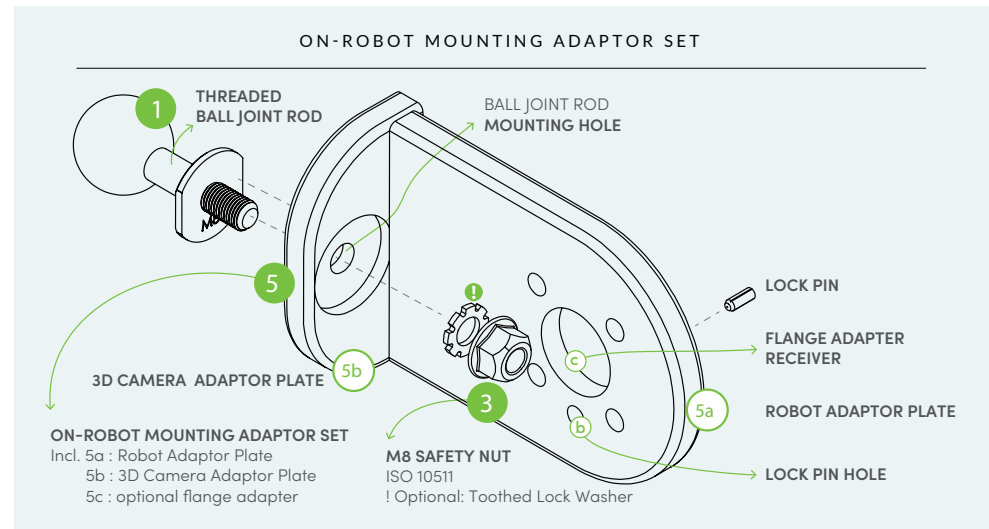
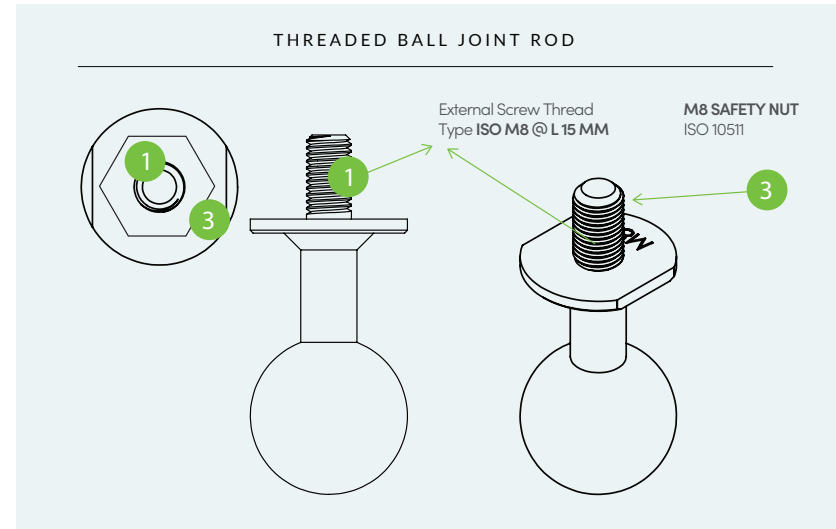
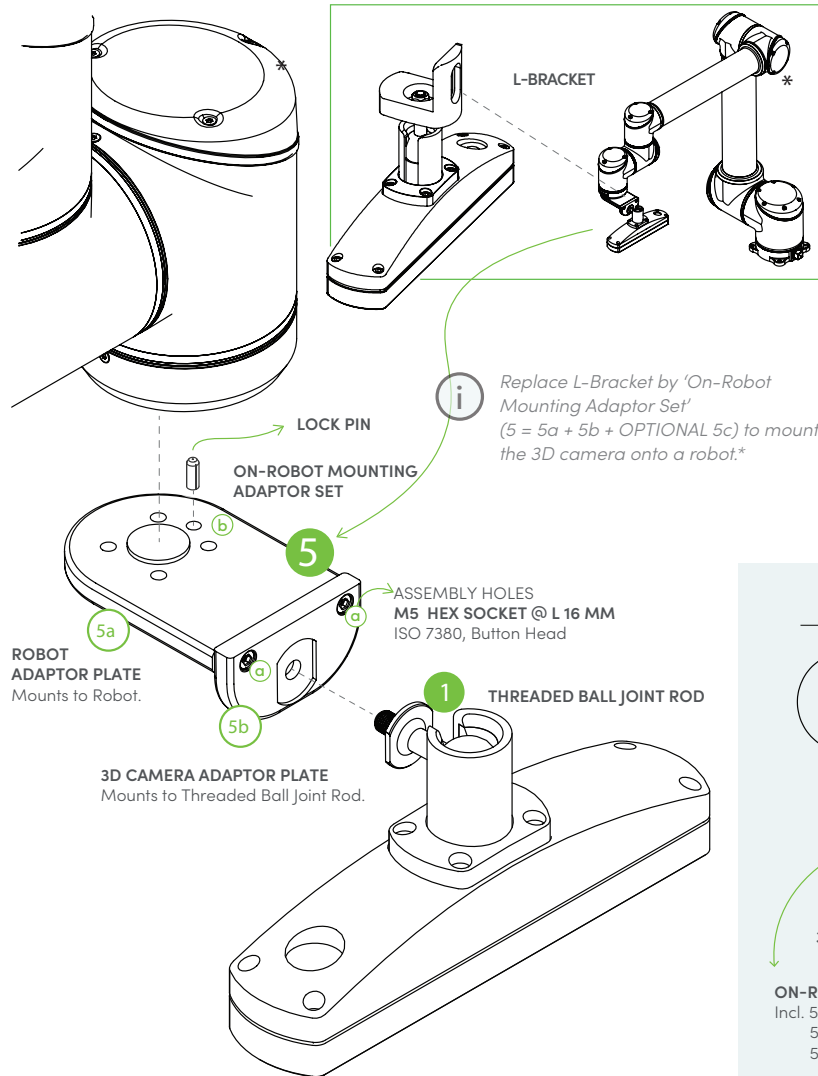
SOFTWARE SUPPORTS ON-ROBOT MOUNTING AND STATIONARY MOUNTING



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.

On-Robot Mounting

SOFTWARE SUPPORTS ON-ROBOT MOUNTING AND STATIONARY MOUNTING



*Robot shown is for illustrative purposes only. A wide range of robot flange types is supported. Contact sales@pickit3d.com for further info.