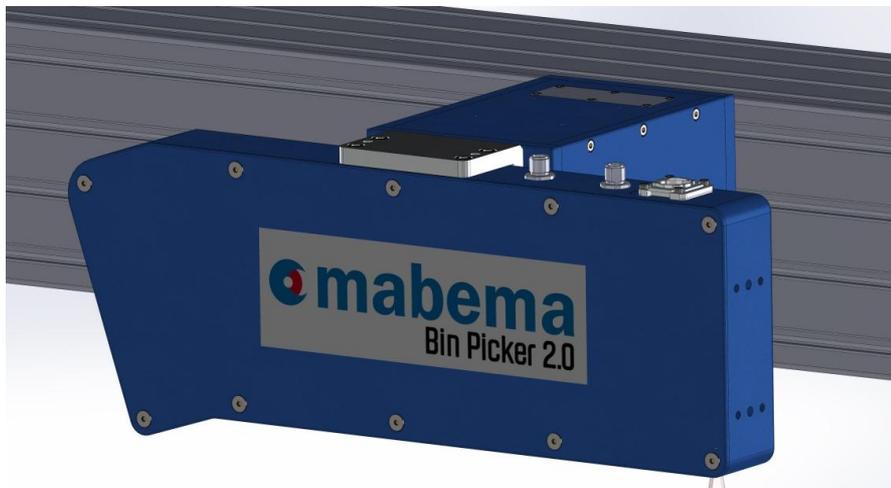
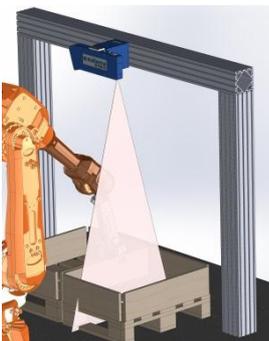


# Bin-Picker 2.0



- 3D picking of unsorted goods direct from the pallet.
- Cost-effective, soundless and compact.
- World leading, patented technique, based on laser triangulation.
- Delivered with guaranteed performance.
- Supports ABB, Yaskawa, KUKA och Fanuc.
- With more than 20 installations at Volvo, MMA, Sandvik, Haldex, Getrag amongst others.
- Can handle complex parts and shapes.
- Very easy to configure on the factory floor.
- Cost free suitability test of your product, before commitment.
- Now with support for cylindrical/rotational and flat objects.
- Cycle times as low as 5 s, depending on parts.



Mabemas Bin-Picker 2.0 can pick parts when lying scattered on a pallet. The operation is almost soundless and requires minimal floor space.

The image is generated by laser triangulation during one sweep (of the beam) over the pallet, the picture being of high resolution and three dimensional. Advanced algorithm makes the CAD-based program. "A" preprogramed to recognize parts and "B" uses active collision avoidance, to successfully pick the correct part.

Mabemas Bin-Picker gives added advantages when handling complex parts, such as castings, steel-pressings, and forgings. It's very flexible and allows rapid conversion when component changes are required.

The simplicity of the system provides a fast and easy installation by which new objects can be simply made, using 3D models of the parts to be picked, indicating the correct gripping tool. Mabema delivers the Bin-Picker 2.0 with a performance-guarantee, and if desired, initial tests in our laboratory, participation in the development of arm tooling, robot programming, commissioning, training, and support.

# Bin-Picker 2.0



## Technical data BP 2.0

<b>Control System</b>	Slave controlled from an external source, As for example, the robots own software.
<b>Cycle time</b>	Typically between 5 to 15 sec/part depending on the shape
<b>Object size</b>	Ca 50 x 50x 50mm or larger.
<b>Objects surface</b>	Most materials and surfaces, but not polished
<b>Packaging size</b>	1200 x 800 x 600 mm (Euro-pallet with three collars) or less
<b>Communication</b>	Ethernet
<b>Robot type</b>	ABB, KUKA, Yaskawa, Fanuc
<b>3D-reference models</b>	STL alt. IGES, STEP
<b>Installation</b>	Approximately 1200 mm above the uppermost pallet collar
<b>Equipment cabinet</b>	Equipment cabinet plus computer and software are included , 230V 10A (800 x 600 x 400) (H x B x D mm)
<b>Laser class</b>	3B

