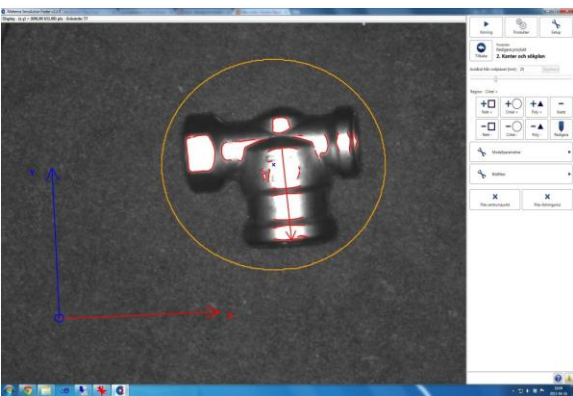


Finder

Mabema Finder is a high-resoluted vision system that enables guidance of an industrial robot when picking objects from a fixed plane such as a conveyor. The system is easy to teach and calibrate.



- World leading search algorithm.
- High accuracy.
- Manages thousands of models.
- 5 MP camera support.
- Two cameras support.
- Can pick from several planes.
- Advanced collision detection.
- Robot code included.

Finder

Mabema Finder is the solution for traditional robot guidance where the objects are located in a common plane.

As an example of typical applications you will find localization of objects from a conveyor or well oriented but not fixed objects from pallet.

The set-up of the system is made in an easy to use graphical operator interface. It allows for a very simple and robust installation and definition of new objects. The change of objects can be done both through the operator interface and through the robot communication interface.

Finder can also be delivered with support for 3D that gives information in six axes i.e. minor variations of the height of the object and rotation in space. An example is localisation of sorted objects where the objects are not located on a plane surface.

Finder interfaces to ABB, KUKA and Motoman robots. Interface to other robots can also be supported.

The system is delivered complete with camera, computer and software and have only to be supported with illumination suitable for the object.

Technical data

CAPACITY	
Resolution, camera	Standard: 1,3 Megapixel (1290 x 960) Option: 5 Megapixel (2500 x 2000)
Accuracy	Depending of FOV (field of view) Appr. 0,1 mm at 500 mm FOV
FEATURES	
	Advanced collision detection
	Picking from several planes
	Support for two cameras
CONNECTIONS	
Computer	Industrial PC (included)
Communication	LAN: 1 Gbit/s between PC and camera 100 Mbit/s between PC and robot
Power supply	24V DC
Robot type	ABB, KUKA, Motoman. Others on request.

