compar

excellence in machine vision & robotics

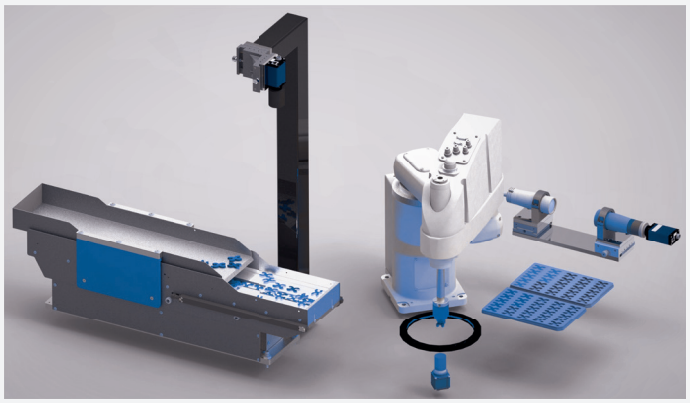
SWISS MADE

UNIVERSAL PART HANDLING

Compar's universal part handling system is our Pick & Place solution combining just 3 components: our vision system, an EPSON robot, and a conveyor unit.

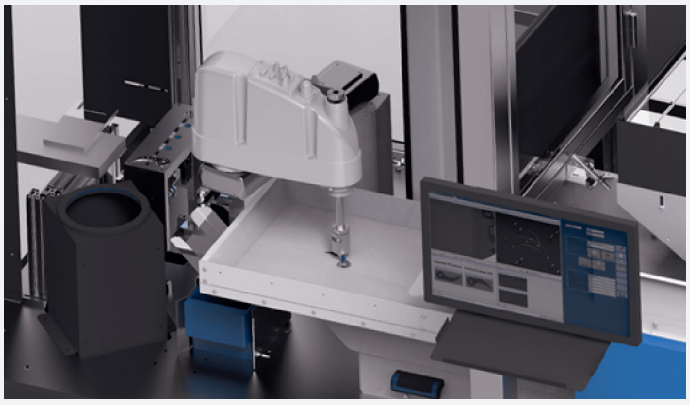
PART SIZE DIVERSITY

Handling of parts coming in various shapes, sizes, and materials.



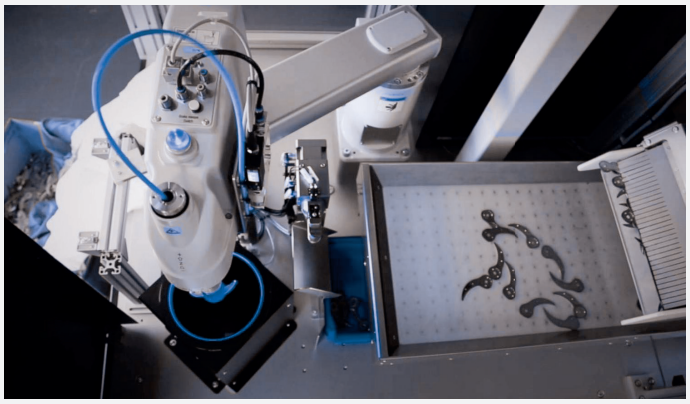
FAST & EASY

Product changes without the requirement of mechanical adjustments.



HIGHEST FLEXIBILITY

Layout design, component selection, integration.



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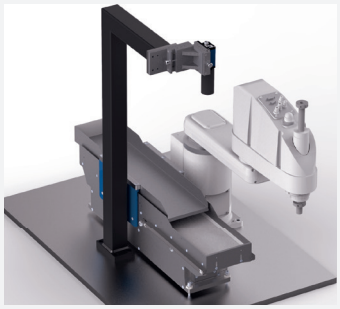
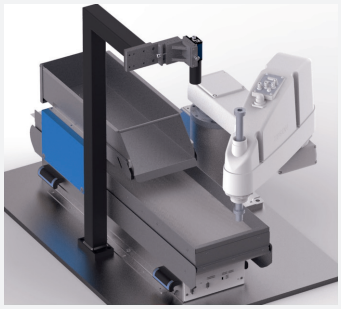
Bulk material parts are emptied into conveyor bins. Subsequently, the parts are conveyed in such a way that they do not overlap on the conveying surface. Thanks to the vision system, the position, rotational angle and tilting position of each individual part are precisely measured and saved. These data (coordinates) are transferred directly to the robot, the parts are picked and places for the subsequent process.

Criteria / models	**Small**	**Medium**	**Large**
Part size	up to 15 mm	up to 45 mm	up to 75 mm
Part thickness	from 0.15 mm	from 0.15 mm	from 0.5 mm
Part weight	up to 20 g	up to 25 g	up to 60 g
Camera field of view / pick area	50mm*67 mm	140*193 mm	240*320 mm
Bunker volume	0.3 L (2)	4 L (2)	10 L (2)
Suitable robot (SCARA and 6-axis)	EPSON G1, G3 series	EPSON G3, G6 series	EPSON G6, G10, G20 series
Robot positioning repeatability	from 0.005 mm	from 0.008 mm	from 0.015 mm
Camera resolution for localization	from 0.05mm	from 0.01 mm	from 0.05 mm
Performance	50 -120 pc. / min. (1)	30 -90 pc. / min. (1)	12 - 45 pc. / min. (1)
Machine vision	VISION***expert***® PC based image processing software - simple or custom Teach-In mode, fast change of types thanks to integrated product management, extensions with a few mouse clicks		
Power supply	230 V / 10 A		

Layout design	Free layout design for optimal component arrangement
Examples	» Part isolation and optical quality inspection in the same work step
	» System assembly with two conveyor units and one robot
	» Designed as an autonomous test cell
(1) Depending on the part geometry and part texture. Get in touch with us for quick feasibility feedback (handling and cycle time).	
(2) Additional capacity bunker can be adapted	

REALIZED APPLICATIONS / EXAMPLES / MARKETS

watch making

packaging

medtech

automotive

pharma

non industrial