

ZiMo – THE MOBILE ROBOT

PRODUCTIVE FROM DAY 1

THE CHALLENGES

The ongoing shortage of skilled workers is creating organizational challenges for many companies and causing significant costs. Shortages in staff lead to production delays, quality losses and restricted growth.

- ▶ **Shortage of skilled workers** – monotonous manual labor is difficult to fill
- ▶ **High flexibility requirements** – changing orders and small batch sizes
- ▶ **Machine downtimes** – staff shortages cause downtimes
- ▶ **Loss of quality** – overworking skilled workers leads to errors



THE SOLUTION – ZIMO

AUTOMATION THAT ANYONE CAN OPERATE

Ready for use 24/7

Reliable 24/7 – for maximum utilization of capacity and consistently high efficiency, even in three-shift operation.

Bridge the shortage of skilled workers

Automated processes take the pressure off your team and secure production, even when you are short-staffed.

Maximum performance with maximum security

Smart safety components for smooth operation without compromising on cycle time, flexibility or quality.



Ideal for small and varying batch sizes



Increased productivity



Flexible use



Optimized production processes



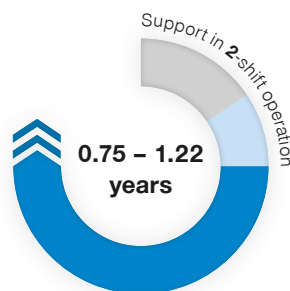
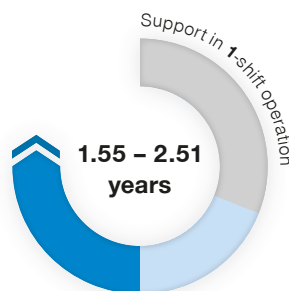
Customizable



Fast return on investment (ROI)

FAST RETURN ON INVESTMENT

With ZiMo, automation becomes the strategic answer to industrial challenges: More orders in less time and lower costs for personnel, operating and maintenance increase efficiency and revenue. This enables you to remain competitive and benefit from a fast ROI while also achieving sustainable cost savings.



ZiMo – THE MOBILE ROBOT

TECHNICAL DETAILS



Base module

- ▶ Base frame on four lifting rollers with locking feet
- ▶ Partially machined tabletop
- ▶ Control cabinet including fan / ventilation grille
- ▶ Prepared interface (pneumatic/electric)
- ▶ Basic electrical equipment
- ▶ Status display (LED strip)
- ▶ Docking bar with "present" query
- ▶ Integrated brackets for accessories



Engineering and services

- ▶ For mechanics, optional PLC support

Complete end effector portfolio (configurable)

- ▶ Pneumatic, electric, vacuum

Options (configurable)

- ▶ Safety scanner; Storage station for MATCH components
- ▶ Interfaces (Digital Safety I/O, Euromap 67, passive distributor, IO-Link, pneumatics)
- ▶ SLC rack and extra docking bars



APPLICATIONS

- ▶ Pick & Place
- ▶ Workpiece handling
- ▶ Quality assurance
- ▶ Packaging
- ▶ Workpiece removal
- ▶ Collaborative installation
- ▶ (De)palletizing

	▶ Technical data
ZiMo	
Control system visualization	Customized
Weight [kg]	305
Length [mm]	720
Width [mm]	920
Min./max. operating temperature [°C]	+5 ... +40
Electrical connection	Plug CEE 16 A, 400 V, 5-pin

	▶ Technical data		
Robots / ABB GoFa	GoFa 5	GoFa 10	GoFa 12
Range [mm]	950 (wrist), 1,050 (flange)	1,520 (wrist), 1,620 (flange)	1,270 (wrist), 1,370 (flange)
Max. load capacity [kg]	5	10	12
Certificates	Performance level d of category 3 (in accordance with EN ISO 13849)		
Robot control system	OmniCore C30		
Max. TCP speed [m/s]	2.2	2	2
Position repeat accuracy [mm]	± 0.02	± 0.02	± 0.02

	▶ Technical data				
Robots / ABB IRB	IRB 1100-4/0,475	IRB 1100-4/0,58	IRB 1200-5/0,9	IRB 1200-7/0,7	IRB 1300-11/0,9
Range [mm]	475	580	901	703	900
Max. load capacity [kg]	4	4	5	7	11
Certificates	Safety certified in accordance with EN ISO 10218-1:2011				
Robot control system	OmniCore C30				
Position repeat accuracy [mm]	± 0.01	± 0.01	± 0.025	± 0.02	± 0.02

HEADQUARTERS:

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