

UINGMAN THE COBOT TOOL CHANGER SYSTEM



PLUG AND PLAY **AUTOMATIC & MANUAL TOOL CHANGE**FOR COBOTS

BROCHURE

UINGMAN THE COBOT TOOL CHANGER SYSTEM

USER GUIDE

VIDEO



DATASHEETS



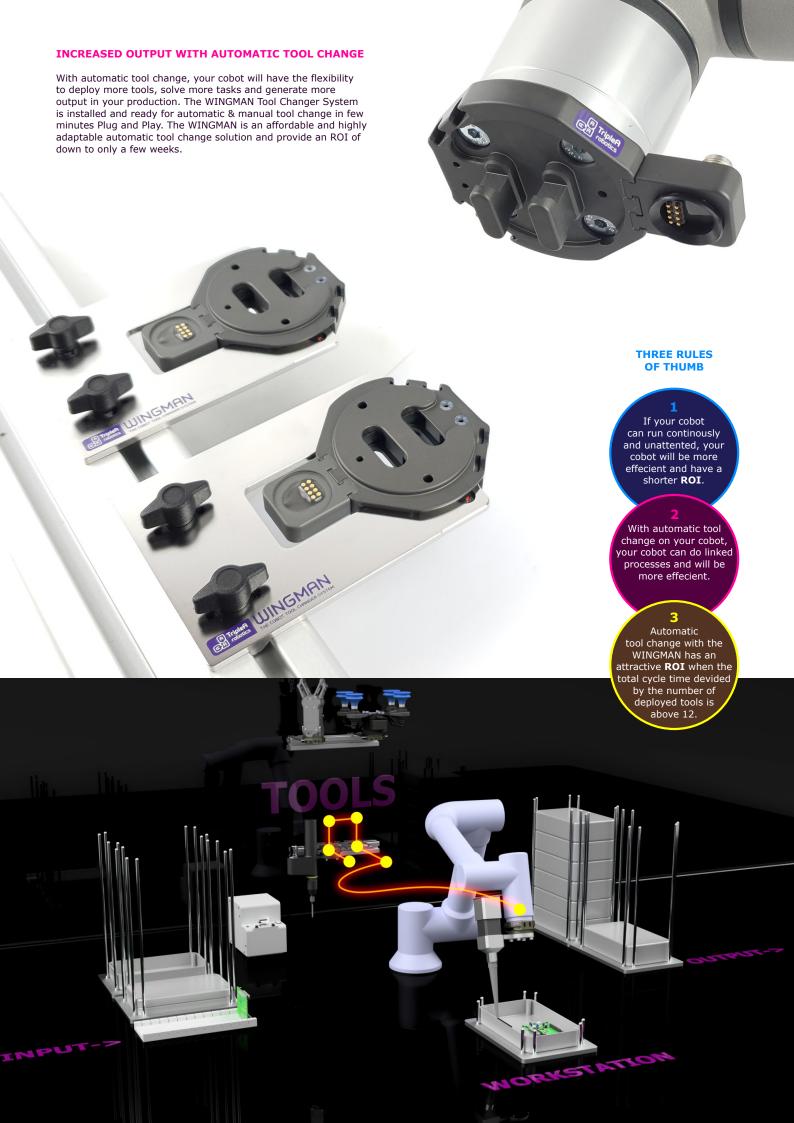




Automatic and manual tool change in one. Standard ISO flange – Strong and light.

Designed & tested for ISO/TS 15066 compliance and with redundant safety lock.

Installed in few minutes out-of-the-box. Automatic tool change setup in 1 minute.



NEW SCHOOL AUTOMATIC TOOL CHANGER

The WINGMAN is a New School tool changer that offers both manual and automatic tool change in the same device and, which does not require expensive pneumatic installations to achieve automatic tool change unlike Old School automatic tool changers. All this is possible thanks to the WINGMANs **patented** mechanical redundant locking mechanism.



OLD SCHOOL vs. WINGMAN

WINGMAN

Old School

Sligged Hill Charles and the state of the st

		tool changers	Tool Changer
	Locking mechanism	Pneumatic / Electric	Mechanical
	Automatic & Manual tool change	No	Yes
L	Purchase and installation costs	High	Low
L	Installation and setup time	Hours	Minutes
L	Tool change time	Slower	Faster
Pli	ug and Play with cobots and cobot tools	No	Yes
	Compact, light and with high payload	No	Yes
	Cobot safe (ISO 15066)	Mostly no	Yes



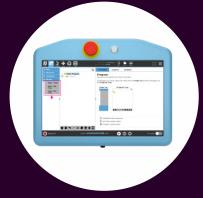
MANUAL TOOL CHANGE

...is achieved by operating the levers in both sides for locking and unlocking



AUTOMATIC TOOL CHANGE

...is achieved mechanically by the **patented** locking mechanics as the cobot moves



URcap SOFTWARE

...for Universal Robot users. The software provide automatic tool change setup in only 1 minutes.

THE TOOL CHANGER

The WINGMAN is suitable for use on cobots of all sizes and will fit in applications with only little space.

Combined height	30 mm / 0.18 in
Combined weight	260 g / 0.57 lbs
Rated payload	33 kg / 73 lbs
Repeatability	+-0,03 mm / 0.0012 in

THE TOOL HOLDER

The holder provides a standard solution to store end-effectors and the holder is part of the automatic tool change mechanism.

Holder's maximum payload	5 kg / 11 lbs
Maximum tool imbalance	1 Nm
Material	Stainless steel





C.S. Tark

ELECTRICAL PASS-THROUGH MODULES

The modules clicks on the WINGMAN's housing without use of tools. There is room for three sets of module, which allow for three different sources of electrical power/control.

Connectors	Std. cobot M8 / 8 pin
Rated voltage/amps	30 ACD€ / 1,5 A
IP classification	IP54



THE HIGH FLOW PASS-THROUGH MODULES

The modules clicks on the WINGMAN's housing without use of tools. The WINGMAN can hold three sets of modules.

Maximum pressure	10 bar	
Push-in fittings	2 x Ø6 mm hoses	
Pass-through clearance	Ø4 mm	





BUILT-IN AIR PASS-THROUGH

The WINGMAN Tool Changer housings feature built-in channels for pneumatic pass-through.

Maximum pressure	10 bar	
Channels for fittings	2 x Ø4 mm hoses	
Pass-through clearance	Ø2,7 mm	



HIGH QUALITY

The WINGMAN Tool Changer System is made of precision machined metal parts.

Manufacturing country	DENMARK
Material	High grade aluminium
Surface treatment	Special





PALLETIZING

Change automatically between grippers to automate mixed palletizing. Or change from a gripper for a label applicator to label boxes after palletizing.



MOBILE ROBOTS

The WINGMAN is designed for use in combination with mobile robot arms. Let the mobile robot arm pick up the end-effectors it needs and carry multiple end-effectors to solve multiple tasks autonomous.



WELDING

Change automatically from welding gun to gripper to move welded parts away and new part in for welding. Or switch to a brush tool to clean welds in between.



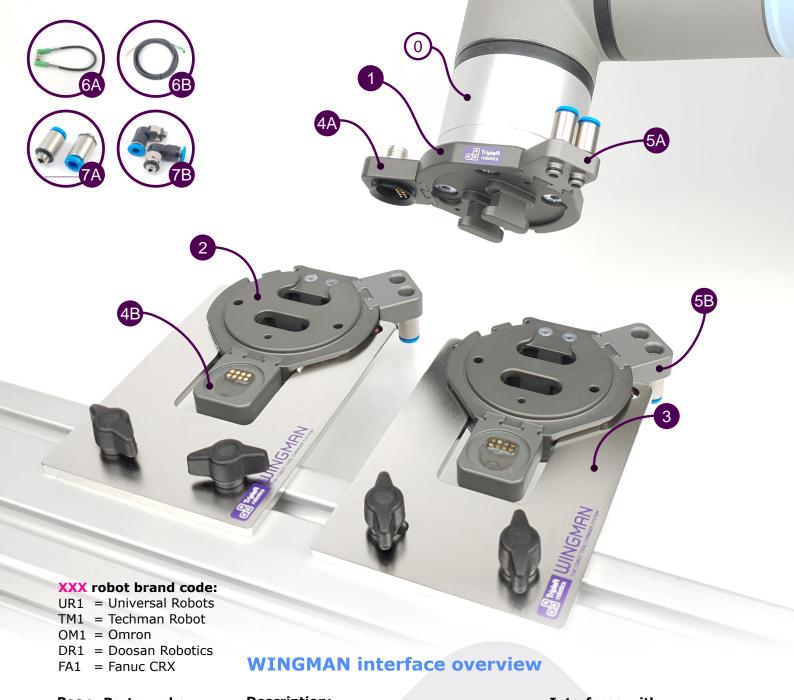
MULTIPURPOSE CELL

Change between several end-effectors such as electric gripper, vacuum gripper, glue dispenser, screwdriver, etc. to automate assembly tasks such as box assembly and similar.



MACHINE TENDING

Change one or both grippers automatically on dual grippers for machine tending applications. Your cobot can combine end-effectors on the double gripper as needed to solve tasks effectively.



Description: Interfaces with: Pos.: Part number: \bigcirc Robot / Cobot WM1-P-01-01-XXX WINGMAN Tool Changer Robot Part WM1-P-02-01 WINGMAN Tool Changer Tool Part 3 4A 4B 5A 5B 6A 6B 7A 2 WM1-P-03-01 WINGMAN Tool Changer Tool Part Holder El pass-through module for Robot Part **4B** WM1-A-01-01-XXX WM1-A-01-02-XXX El pass-through module for Tool Part 5B Air pass-through module for Robot Part WM1-A-03-01 Air pass-through module for Tool Part WM1-A-03-02 WM1-A-02-01-XXX Cable for robot tool flange connector Cable for robot controller WM1-A-02-03 Fittings straight for built-in air pass-through WM1-A-06-01 WM1-A-06-02 Fittings angled for built-in air pass-through



WINGMAN Tool Changer kits

Accessories kit WM1-AK-01-00-)
1
1
3
3



VISION

- (A) PPLICABLE
- (A) DAPTABLE
- **A** FFORDABLE

TripleA robotics makes flexible automation possible and profitable in high mix and low volume productions through **Applicable**, **Adaptive** and **Affordable** robotics

