Click Clack Kit

Robot Training Application
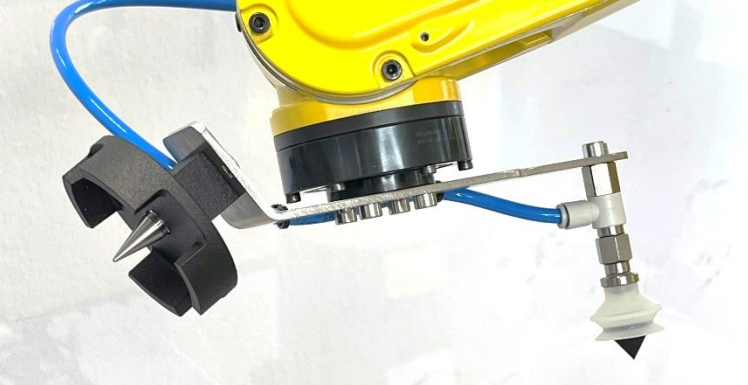
The Click Clack kit is a training application for industrial robots. The exercise is to fill click clack cans with chocolates, to close the cans and palletise them.

Initially designed for a Fanuc Educational cell the kit can be adapted on request to other training cells like Kuka ready2_educate or ETS SafetyCUBE.

Features

- ❖ Application with two tools.
- ❖ Mounting plate
  The kit can be ordered with a mounting plate for fast installation.
- ❖ Multitude of possible layouts due to:
  - o Free choice of holder positions.
  - o All parts can be mounted at 0° or 90° angle to the 40mm pitch of the slotted plate, if installed without the mounting plate.
- ❖ Forgiving design to reduce the risk of c after collisions.
- ❖ Pop-off function
- ❖ Industry grade parts (pneumatic and electric parts).
- ❖ Stainless steel laser cut metal sheets.
- ❖ High quality 3D printed parts (MJF and SLS technique).
- ❖ TCP teaching tools included.

The pneumatic valves to control the vacuum generator are already integrated in the Fanuc ER-4iA robot.

See application in action
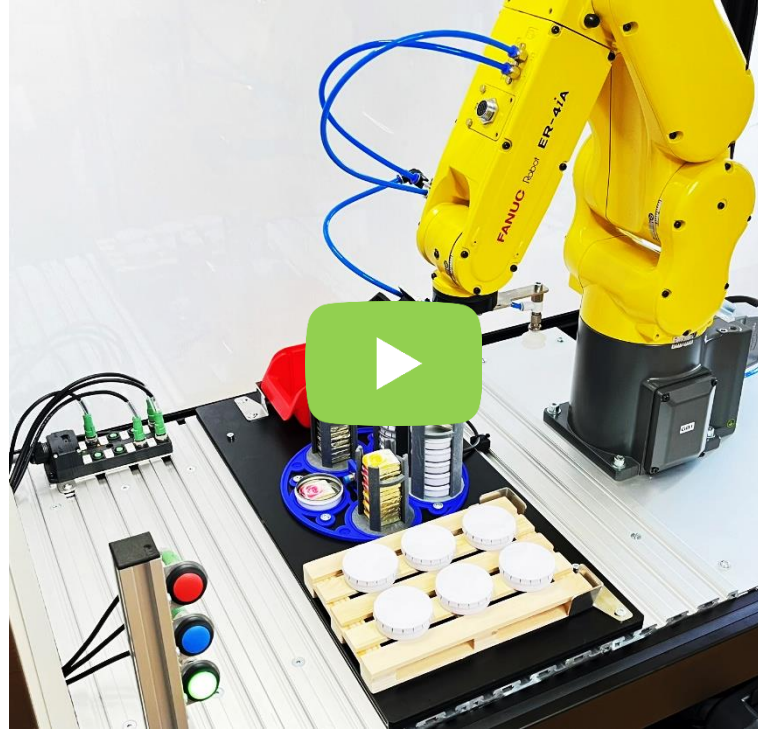
Pricing & Options[1]

All prices excl. VAT (B2B) and excl. transport.

Basic kit:	1250€
Option Mounting plate:	150€ [2]
Option LED tower:	300€ [2]
Option Fanuc IO block:	450€ [2]
Option Training documents:	on demand
Option Branded cans & chocolates:	on demand

In case you need a silent compressor, I can recommend:

- Implotex 480W Silent, ~50dB noise level and 9l reservoir. (Low budget but perfectly ok for this application.)
- Jun-Air 6-15 (High end oil-lubricated silent compressor, hardly louder than your fridge.)

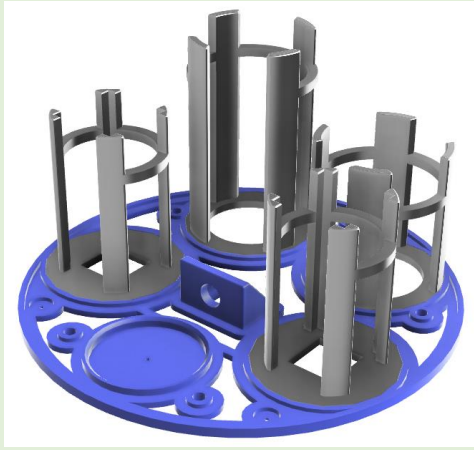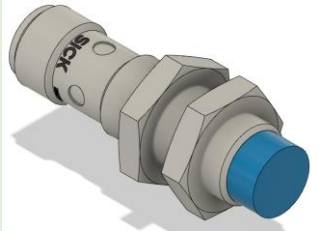Don't hesitate to contact me for a personalized offer.

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[1] These prices are presumably only valid in 2024.
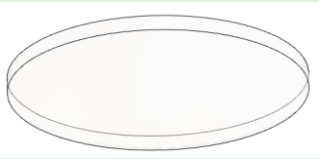[2] This price is only valid in combination with the basic kit.
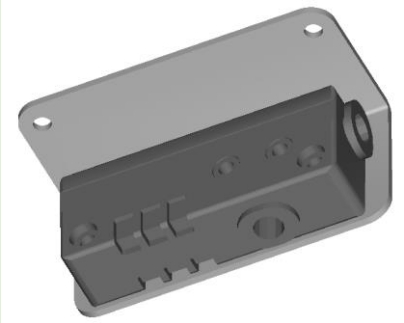
Bill of material (Basic kit)

Assembly station:

Qty	Part	Reference
1	Assembly station including 1 locator and 4 inter-changeable holders (3D printed in SLS and MJF)	
1	Assembly station fixing kit with 4 M5x10 washer head screws and 4 nut stones.	
1	Inductive proximity switch from Sick	
1	Cable M12 1.5m for proximity switch from Phoenix Contact	
30	Click Clack Cans white, unbranded, 56mm outer diameter	
2x100	Chocolates unbranded, 35x35mm	

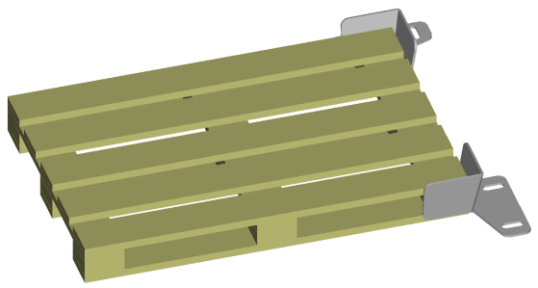| Qty	Part	Reference
10	Spacer discs in Plexiglas to put between the can lids	
5	Cable tie clips Rose+Krieger Vario Quick K30	
100	Cable ties 2,5mm	

Tool assembly:

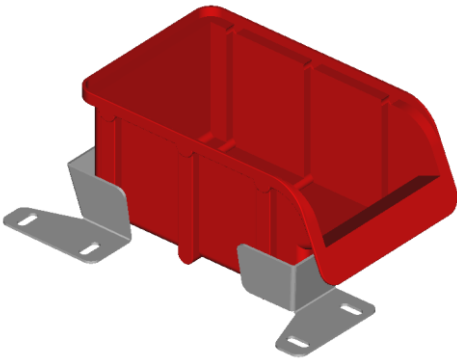| Qty	Part	Reference
1	Tool assembly with 1 stainless steel flange adaptor, 1 high quality 3D printed closing tool (MJF), 1 suction cup from SMC with 25mm bellows and 2 TCP teaching tools.	
1	Tool assembly fixing kit with 6 screws, 1 long nut and 1 alignment dowel.	
1	Vacuum generator assembly with 1 vacuum generator from SMC and 1 bracket (high quality 3D printed or stainless steel).	
1	Vacuum generator fixing kit with 4 screws and 2 nuts.	

Qty	Part	Reference
9m	TU Hose Pipe, Polyurethane 6mm OD	
2	Adaptor M5 Male to 6mm Push In	
1	TU Hose Adaptor Kit	
2	Adaptor RC1/4 Male to 6mm Push In	
1	Adaptor Pneumatic Quick Connect to R1/4 Female	
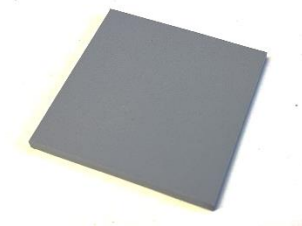
Pallet:

Qty	Part	Reference
1	Mini-Pallet with 2 stainless-steel pallet locators.	
1	Mini-Pallet fixing kit with 4 screws and 4 nut stones	
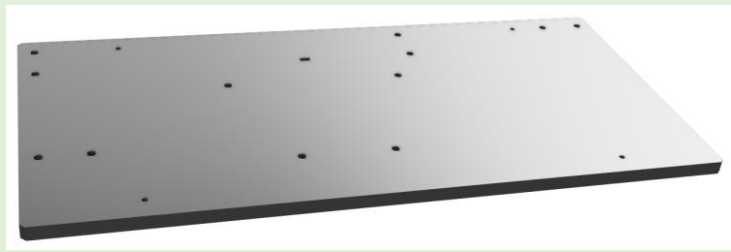
Storage Bin:

Qty	Part	Reference
1	Storage Bin with 2 stainless-steel pallet locators.	
1	Mini-Pallet fixing kit with 4 screws and 4 nut stones	

Auto-exposure field:

Qty	Part	Reference
1	Auto-exposure field (grey, 50x50x3mm).	
1	Double sided glue patch	

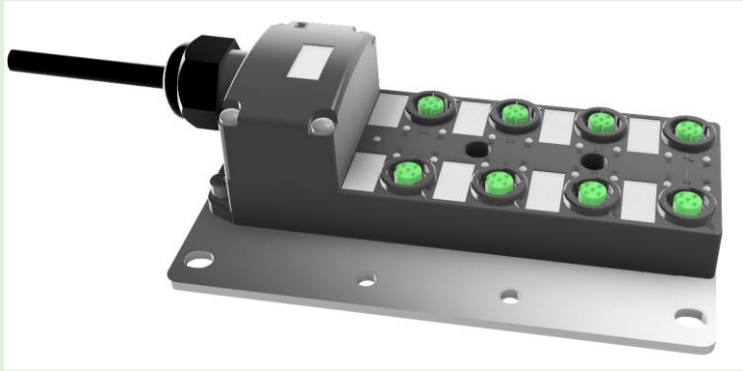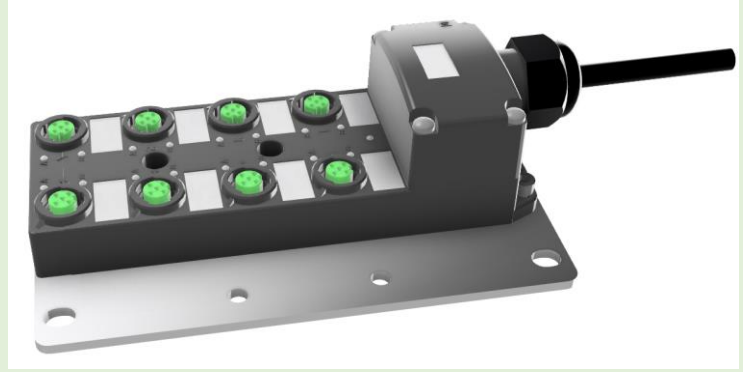# Bill of material (Option Mounting Plate)

Qty	Part	Reference
1	Mounting Plate (laser cut 12mm HD-PE plate) with M5 thread inserts to fix all parts.	
1	Mounting Plate fixing kit with 4 screws and 4 nut stones	

Bill of material (Option LED Tower)

Qty	Part	Reference
1	LED Tower assembly with: • 1 Aluminium profil Rose+Krieger complete (250mm, with cap and profile fixing kit) • 3 RAFI-LEDs (red, blue, green) with stainless steel brackets • 3 M12 cables from Phoenix Contact	
1	LED Tower assembly fixing kit with 3 screws and 3 nut stones	

Bill of material (Option Fanuc IO Block)

Qty	Part	Reference
1	IO Block assembly with: • 1 IO block from Phoenix Contact • IO block cable with Honda connector from Fanuc • 1 stainless steel mounting plate for optional mounting next to the robot or on the slotted plate.	 or
1	IO Block assembly fixing kit with 8 screws and 2 nut stones	