

01. SOFT ROBOTICS FINGERS

_3D printed moulds

_casting silicone (Eco-Flex 00-50):

<https://www.amazon.com/Smooth-Ecoflex-00-50-Platinum-Silicone/dp/B00GJ80HIC>

_syringe + needle

02. CONNECTION TO ROBOTIC ARM

_3D printed connection plate

_bolts

_screws & nuts

_Connector rivets

03. HARDWARE

Connection to the robot (to ABB 140 in this case):

_microcontroller (arduino uno or similar):

<https://www.amazon.com/RoboGets-Compatible-ATmega328P-Microcontroller-Electronics/dp/B01N4LP86I>

_optocoupler:

<https://www.amazon.com/Converter-Optocoupler-Isolator-Maluokasa-DST-1R4P-N/dp/B07NNP4H7S>

_relay:

<https://www.amazon.com/Nilight-Automotive-Harness-Interlocking-Socket/dp/B0748F1JK4>

Control air pressure:

_2 way solenoid valve:

<https://www.amazon.com/4inch-Normally-Closed-Electric-Solenoid/dp/B00ON8XF5O>

_air compressor:

<https://www.amazon.com/AstroAI-Portable-Compressor-Inflator-Protection/dp/B078LYX5YF>

_force touch sensor:

<https://www.amazon.com/Sensitive-Resistor-Pressure-Diameter-Resistance-Type/dp/B07MP4RL9Q>

General:

_jumper cables & jumper extension wires:

<https://www.amazon.com/Elegoo-EL-CP-004-Multicolored-Breadboard-arduino/dp/B01EV70C78>

_breadboard:

<https://www.amazon.es/Protoboard-contactos-Breadboard-prototipos-soldadura/dp/B00JGFDKBQ/>

_12V power supply:

<https://www.amazon.com/Switching-Universal-Regulated-Transformer-Computer/dp/B07C2WB R1L>

_Mounting plate or Project Box

Tools:

_Soldering iron

_Wire strippers

_Tweezers

_Screwdriver

_3D printer