



# EC63 | 6-axis Collaborative Robot

EC SERIES



3kg  
Payload



624mm  
Radius



$\pm 0.02\text{mm}$   
Repeatability



2.0m/s  
Max TCP Speed



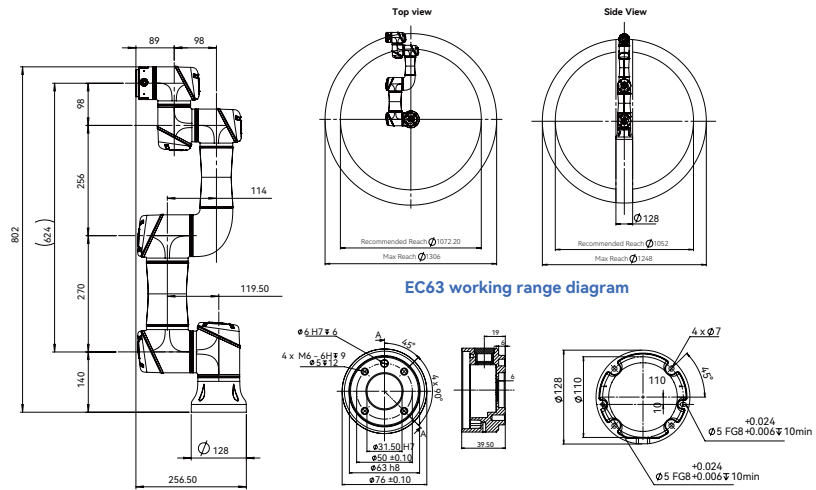
# EC63

## EC SERIES



### Robotic Arm

|                        |       |                                    |
|------------------------|-------|------------------------------------|
| Payload                |       | 3kg                                |
| Radius                 |       | 624mm                              |
| Repeatability          |       | ±0.02mm                            |
| Axis                   |       | 6                                  |
| Joints rotation        | J1-J6 | ±360°                              |
| Joints speed           | J1-J3 | 190°/s                             |
|                        | J4-J6 | 260°/s                             |
| Max TCP Speed          |       | 2.0m/s                             |
| IP rating              |       | IP54                               |
| Temperature range      |       | 0-50 °C                            |
| Relative humidity      |       | 5%-95% (non-condensing)            |
| Typical power usage    |       | 185w                               |
| Mounting               |       | Any angle                          |
| Tool I/O connector     |       | 12 pin                             |
| Tool I/O ports         |       | 2 DI, 2 DO, 1 AI, 1 AO             |
| Tool I/O power supply  |       | 24V; 2A                            |
| Tool I/O communication |       | RS485                              |
| Footprint              |       | Ø 128mm                            |
| Weight                 |       | 13kg                               |
| Material               |       | Aluminum, Steel                    |
| Cable length           |       | 5.5m                               |
| Certifications         |       | CE-EMC, CE-MD, NRTL, CR, KCs, RoHS |



EC63 external dimensional drawing

EC63 end flange

EC63 base top view

### MINI Controller



|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| Size             | 205mm x 135mm x 44mm                                                                               |
| Weight           | 1.2kg                                                                                              |
| Material         | Aluminum                                                                                           |
| IP rating        | IP40                                                                                               |
| Power source     | 45-55VDC                                                                                           |
| I/O ports        | 8 DI, 8 DO                                                                                         |
| I/O power supply | 24V; 2A                                                                                            |
| Communication    | Ethernet TCP/IP, UDP, Modbus TCP/RTU, RS485/RS232, Profinet slave, Ethernet IP slave, CCLink slave |

### Teach-Pendant



|                   |                                       |
|-------------------|---------------------------------------|
| Size              | 290mm x 225mm x 118mm                 |
| Weight            | 1.2kg                                 |
| Material          | Aluminum, Plastic                     |
| IP rating         | IP54                                  |
| Resolution        | 800 x 600 pixels                      |
| Cable length      | 5.5m                                  |
| Temperature range | 0-50 °C                               |
| Input method      | Resistive touch-screen, physical keys |

### Controller



|                   |                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------|
| Size              | 505mm x 448mm x 245mm                                                                              |
| Weight            | 15kg                                                                                               |
| Material          | Aluminum, Steel                                                                                    |
| IP rating         | IP44                                                                                               |
| I/O power supply  | 24V; 2A                                                                                            |
| I/O ports         | 16 DI, 20 DO, 2 AI, 4 AO                                                                           |
| Temperature range | 0-50 °C                                                                                            |
| Communication     | Ethernet TCP/IP, UDP, Modbus TCP/RTU, RS485/RS232, Profinet slave, Ethernet IP slave, CCLink slave |