INTELLIGENT MOTION
Columbus McKinnon

Document title:
Date of creation: 05.12.2025
Revision Index: 1.0
Language: English - US

Quick Start Guide – FANUC

PHR (Phoenix Robotics) lifting column

Lifting Column for Industrial Applications

Columbus McKinnon Engineered Products GmbH
Am Silberpark 2-8
D-86438 Kissing

Telefon: +49(0)8233 2121 800
Telefax: +49(0)8233 2121 805
Web: www.pfaff-silberblau.com

PFAFF silberblau By Columbus McKinnon

ABOUT THIS QUICK START GUIDE

This Quick Start Guide contains a summarized version of the instructions needed to set up and connect a Columbus McKinnon PHR (Phoenix Robotics) lifting column (hereafter simply referred to as the “lifting column”).

Please note that this Quick Start Guide should always be read together with the operating manual. Both the operating manual and all rules and regulations that apply at the location of use must be observed (with examples including accident prevention regulations).

⚠ WARNING

Hazard posed by improper assembly and installation

- Both assembly and installation must be carried out exclusively by qualified personnel tasked with the corresponding work.

SCOPE OF SUPPLY

Immediately after receipt, check to make sure that all the items included match the corresponding shipping documents.

Please note that we will be unable to honor defect claims that are not filed in a timely manner.

Immediately file a claim for any defects and/or missing items with CMCO Engineered Products.

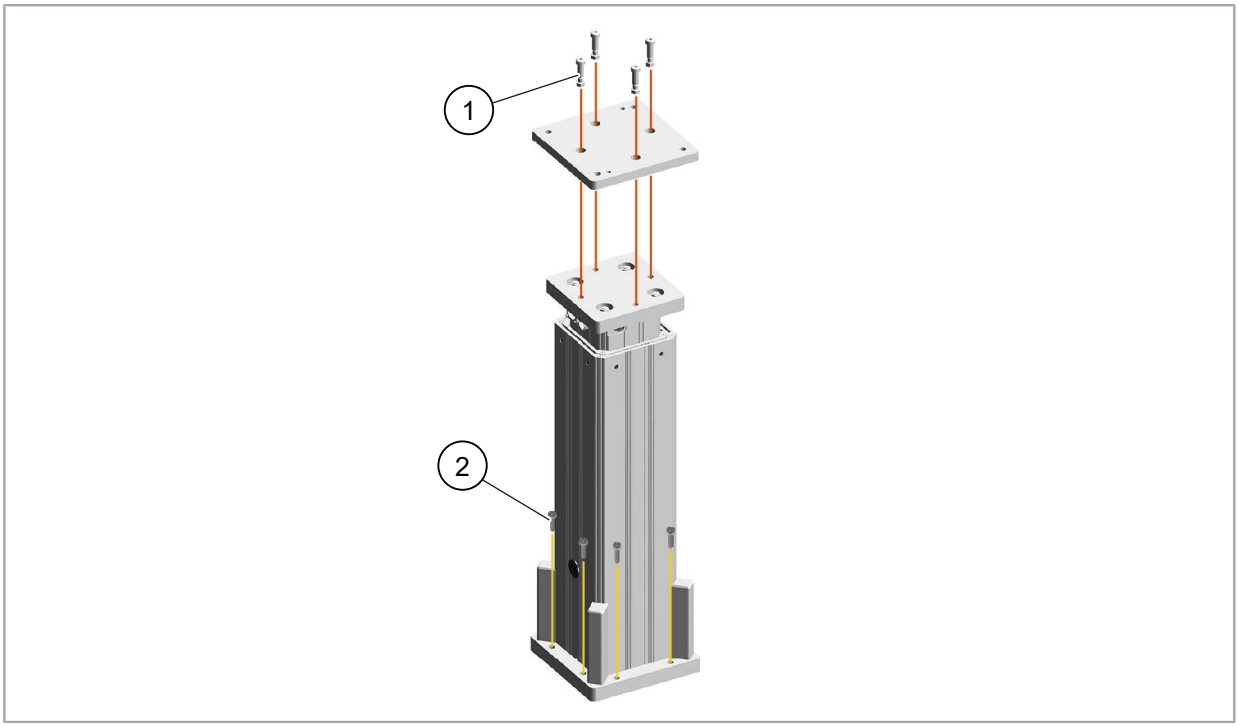
If you notice any transit damage, file a claim immediately with the shipping company.

The following are included in the scope of supply:

- PHR (Phoenix Robotics) lifting column
- Control box for power supply (incl. internals, approx. 18 kg)
- Power cable, 5 m
- Adapter plate for cobot (model-specific)
- Ethernet cable, 5 m
- I/O cable, 5 m

SETTING UP THE LIFTING COLUMN

NOTE The lifting column must be exclusively installed on the floor.



1 Four (4) ISO 4762 socket head cap screws (M12 x 30, property class 8.8) and two (2) ISO 8752 spring pins (12 x 45)

2 Eight (8) ISO 4017 hex cap screws (M12 x 60, property class 8.8)

Assembly sequence

1. Tightly fasten the lifting column's mounting plate to the floor with the eight (8) hex cap screws (with a tightening torque of 79 Nm).
2. Tightly fasten the adapter plate for the cobot to the top of the lifting column with the four (4) socket head cap screws and the spring pins (with a tightening torque of 79 Nm).
3. Use a locking device or other thread locking method to secure the screws in such a way as to prevent self-loosening.

You can now install the cobot on the adapter plate.

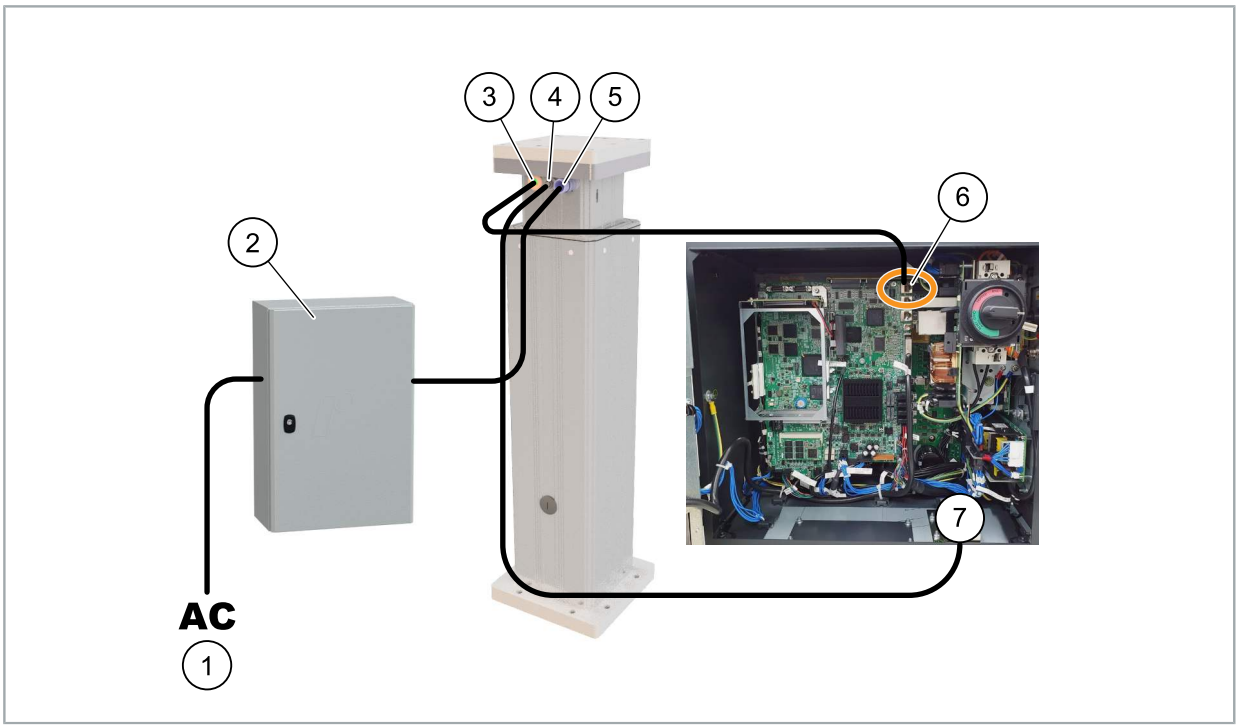
Before installing it, make sure that the cobot is compatible with the lifting column as indicated in the corresponding order confirmation.

ELECTRICAL CONNECTION – FANUC CONTROLLER

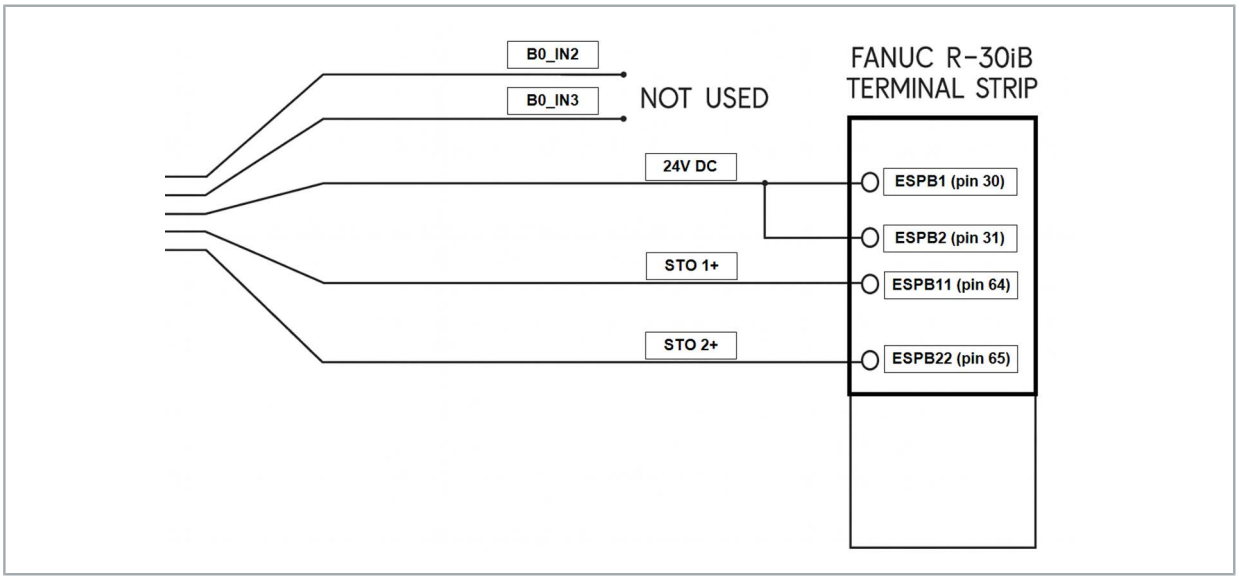
⚠ WARNING

Electrical shock hazard

- Check to make sure that the assembled and installed parts are grounded properly (resistance to ground of less than 10^6 Ω).



1	230 V power (provided by customer) through CEE 7/4 (type F) plug	**5**	Power supply connection (48 VDC)
2	Power supply control box	**6**	Ethernet port
3	Ethernet interface (RJ45)	**7**	I/O & STO interface
4	I/O & STO interface (M12, 8 pins)		



The figure above shows the I/O cable and Safe Torque Off (STO) signal connections between the lifting column and the robot controller. The lifting column's signal cables need to be connected with the enclosed cables for this purpose, and wires that are not needed must be labeled accordingly and not used.

SOFTWARE INSTALLATION – FANUC

Installing the software add-in

1. Turn on the FANUC controller.
2. Download the installation file (e.g., CMCO_LiftingColumn_1.4.1.zip) from the following link: *https://www.cmco.com/de-de/Software-Downloads/*
3. Use a USB drive to install the installation file on the teach pendant.

COLUMBUS McKINNON FAMILY OF BRANDS