## RosettaCNC Handwheel A - Installation and Maintenance manual



#### Dear Customer,

Thank you for purchasing this product. This document collect all the necessary information for the installation and use of this accessory

#### Need help?

Write in the Forum on the www.RosettaCNC.com site or send an email to the following address: support@rosettacnc.com, the RosettaCNC development team will be happy to answer you in a short time.

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# **Informations**

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#### 1. Introduction

### 1.1 General description

For the manual movements (jog) there is a RosettaCNC Handwell A accessory. It has an ergonomic shape that makes it easy to use And is contained in a sturdy anti-shock box. It is equipped with magnets that guarantee a reliable fixation, The electrical connection cable with the RosettaCNC controller It is equipped with a steel wire that increases its reliability and a removable connector with anti-vibration spring contacts.

#### Handwell A has:

- the enable command button
- the emergency button
- a selector for choosing the axis on which to act
- a three-position switch 1 1/10 1/100 that defines the encoder unit of measurement.
- an encoder to execute the movement of the selected axis

#### Note:

- in automatic cycle, the encoder can change the value of the feed override.
- in manual, the enable command button can reset the selected axis.

### 1.2 Symbols used in the manual



Useful Information and tips.



Warnings, failure to comply with these warnings may result in inappropriate operation or damage to the device. ^



Potential danger and possible risk of injury.^

# **1.3 Package Contents**

- n.1 Handwheel
- n.1 wire
- n.1 Mounting bracket
- fixing screws



#### 1.4 Product Identification

With the product ordering code it's possible to obtain exactly the features. Check that the product features match your needs.

#### 1.4.1 Product label



- a Ordering Code
- **b** Week made: indicates the week and year of manufacture
- c Part number: unique code that identifies an ordering code
- d Serial number: product serial number, different for individual product
- e Hardware release: version of hardware release

### 1.4.2 Ordering code

The RosettaCNC HandWhell A product is available in the following version:

	Model	Part number	Description
	94030003	RosettaCNC Handwhell A/CBL	Without connectors
	94030004	RosettaCNC Handwhell A/WDA	With connectors ready to use for RosettaCNC Board A
	94030005	RosettaCNC Handwhell A/WDB	With connectors ready to use for RosettaCNC Board B

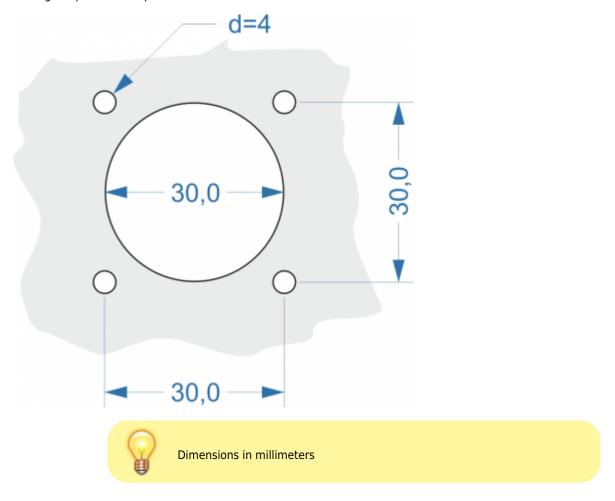
### 1.4.3 Specification

Name	Description	
Emergency button	contact normally closed	
Enable button	enable Handwheel commands	
Switch	3 positions, 1 - 1/10 - 1/100	
Selector	7 positions, OFF - X - Y - Z - 4 - 5 - 6	
Encoder	100 divisions for revolution	
Cable	with steel wire, length 1,7m (3m stretched)	
Support	with magnets	

# 2. Mechanical installation

# 2.1 Drilling template

Drilling template for the panel connector.

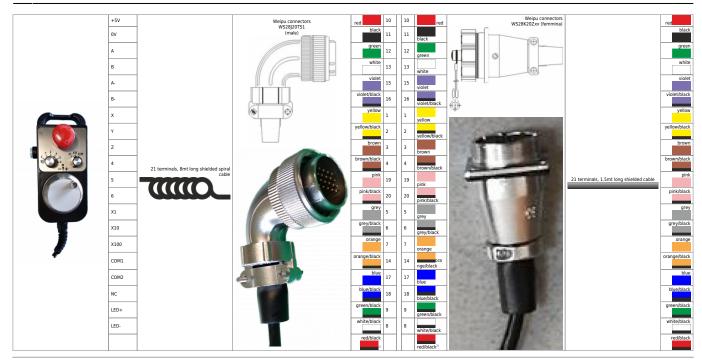


## 3. Connections

# 3.1 Cable description

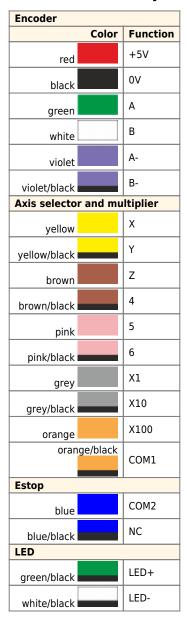
### 3.1.1 Full cable





<sup>1), 2)</sup> Non collegato

### 3.1.2 Terminals only

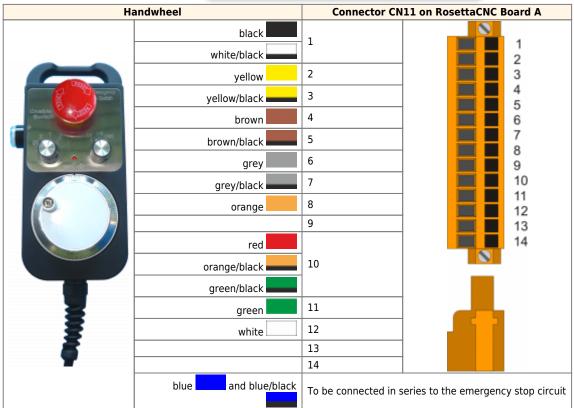


### 3.2 Connections with RosettaCNC Board A



This product is compliant only with RosettaCNC Board A hardware version 1.2 or greater.





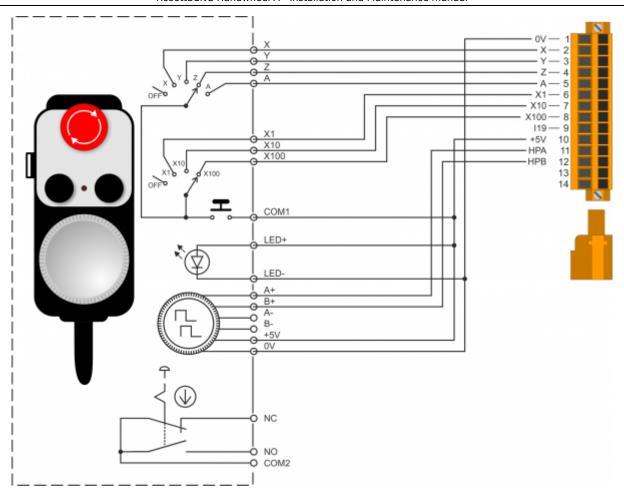
The following wires remain disconnected:

• violet

• violet/black

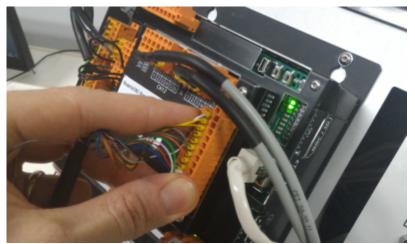
• pink

• pink/black



### 3.2.1 Installation

To connect the handwheel to the RosettaCNC board A, insert the connector into the CN11 as shown in the picture:



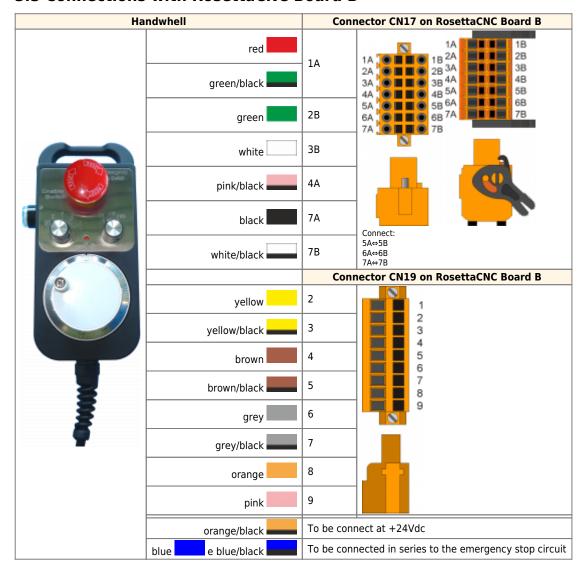
Picture 1. Handwheel Installation



Check the emergency button connection in accordance with the safety circuit of the machine.

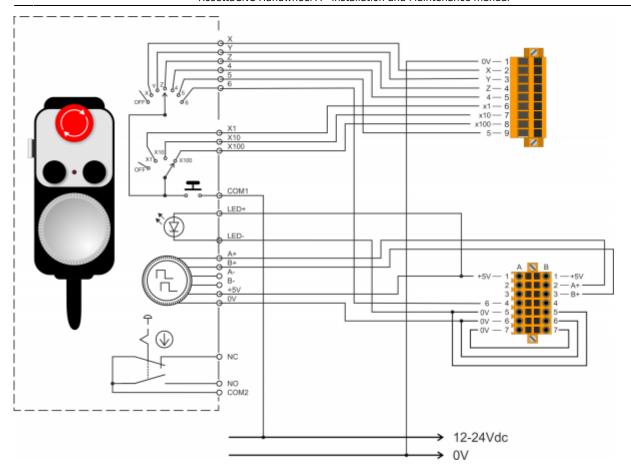
For examples of connection of emergency circuits see the product manual RosettaCNC Board A.

# 3.3 Connections with RosettaCNC Board B



The following wires remain disconnected:

- violet
- violet/black



### 3.3.1 Installation

To connect the handwheel to the RosettaCNC board B, insert the connectors CN17 and CN19 as shown in the picture:

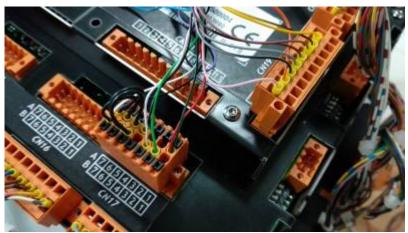


Figure 2. Installation

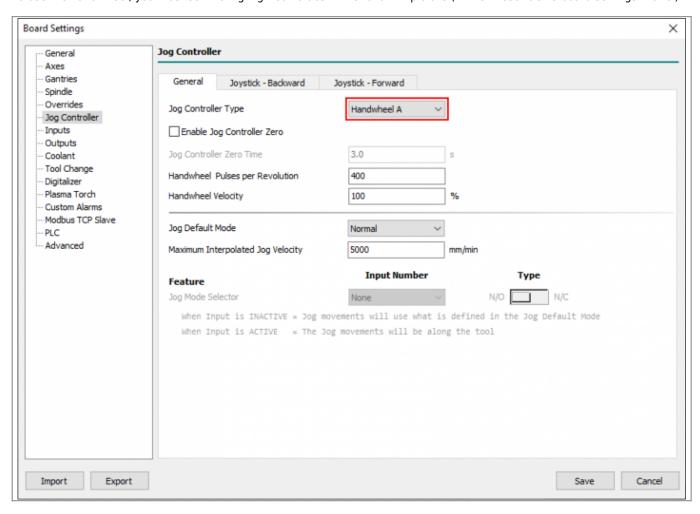


Check the emergency button connection in accordance with the safety circuit of the machine.

For examples of connection of emergency circuits see the product manual RosettaCNC Board B.

## 4. Settings

To use the handwheel, you must set the highlighted values in the followinf picture (In the "RosettaCNC board settings" Panel):



# 5. Previous hardware versions

Below are links to consult the previous hardware versions of the product.

Modello	Part number	
Hardware version 01	User Manual	

# 6. Acknowledgement

All those who want to contribute to the improvement of this documentation are in advance thanks to the reporting inaccuracies or incorrect content. Write to the address: <a href="mailto:support@rosettacnc.com">support@rosettacnc.com</a>

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The wiki content is constantly updated by the RosettaCNC development team, so the online version may contain more recent information.