

# INSTRUCTION MANUAL

## **20m shaft cable rotator with power supply.**

Manufacturer: Distra Chemical, S.L.

Address: Paseo de la castellana, 115 - 1A Madrid (28046), Madrid SPAIN

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## 1- "CE" Declaration of Conformity

### "CE" DECLARATION OF CONFORMITY

Distra Chemical, S.L.  
Paseo de la castellana, 115,1ªA.  
28046 Madrid-Madrid  
Spain

Declares that the machine:

Description: 20m shaft cable  
Rotator with electric drive. Model: ROT-DIS-20  
Serial No: 200901 – 2009027  
Load plus: 57 kg

Complies with the provisions of the Machinery Directive 2006/42/EC

Complies with the provisions of the following harmonised standards:

UNE-EN 894-1:1997+A1:2009

UNE-EN ISO 12100:2012

## 2- General information

### 2.1 Scope of this manual

This instruction manual contains useful and important information for the correct operation and maintenance of the ROT-DIS-20 machine. It also contains important recommendations to prevent possible accidents and damage during operation and maintenance of the tool.

"Original handbook".

This document was written by Distra Chemical S.L. (hereinafter DISTRA) and is intended for use by the operator using the machine.

## **WARNING!**

Read these instructions carefully before working with the ROT-DIS- 20 and follow all recommendations for safe work.

### 2.2 Units of measurement

Unless specifically stated otherwise, all units of measurement cited in this manual and in the control programme are expressed in the International System.

### 2.3 Safety instructions

Hazard notes

<b>DANGER!</b>	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
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<b>WARNING!</b>	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
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<b>ATTENTION</b>	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
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Additional notes

<b>NOTE</b>	The term "note" is used to indicate important information or usage tips.
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## 3- Safety precautions

### Safety precautions

#### 3.1 Safety conditions for the use of this machine

The following safety regulations must be read, understood and observed before any operation or maintenance work.

## **ATTENTION**

The manufacturer disclaims all liability for any damage or injury to persons or other equipment resulting from the use of the pipe coating tool in an operation or installation other than that for which it was designed.

### **Operation and maintenance of the tool**

- The following general safety precautions are not related to any specific procedure. These are the specific safety precautions that personnel must understand and apply during the operation and maintenance phases.
- Operators and maintenance personnel must not attempt to perform any operation, adjustment or maintenance work on the rotator without a proper understanding of this manual and the occupational health and safety rules and regulations contained herein.
- Operators and maintenance personnel must comply with all safety regulations. The safety instructions must be read before any operation of the tool.
- It must be ensured that no danger / warning / caution signs are missing from the machine and that they are always clearly visible and legible.
- **Never** work on any part of the rotator for maintenance or adjustment without first switching off and locking the power supply.
- **No** attempt should ever be made to inspect safety systems unless the machine is switched off.
- All parts and components that need to be replaced or repaired must be carried out when the machine is at standstill and de-energised.

### **3.2 Mechanical safety**

The following safety rules must be read and understood before any operation or maintenance work on the tool.

- The operator or maintenance worker must always observe all safety rules and regulations relating to health and safety at work and the safety instructions contained herein before carrying out any mechanical operations.
- **Never** remove the guards or work on the tool without disconnecting the tool.

## **WARNING!**

The safety conditions of the tool are fulfilled provided that all fixed and movable guards are in place before the tool is activated.

THE TOOL MUST NEVER BE ACTIVATED UNLESS ALL GUARDS ARE IN THEIR DEFAULT LOCATION.

NEVER REMOVE ANY OF THE GUARDS WHILE THE EQUIPMENT IS IN OPERATION.

## **NOTE**

The manufacturer declines all responsibility for any damage or injury to persons or equipment resulting from operating the machine with any of its guards removed from their location or improperly attached in contravention of these instructions.

- Operators must **never** touch the moving parts of the tool while it is in operation.

### **Personal protective equipment**

Operators and maintenance personnel using the pipe coating tool must be equipped with the following personal protective equipment in addition to that required by the task to be performed or the area where the tool is to be used:

- Protective gloves against mechanical risks, according to UNE-EN 388.
- Safety goggles.

### **Electrical Safety**

The following safety rules must be read and understood before any operation or maintenance work on the tool.

- The operator or maintenance worker must always observe all safety rules and regulations related to occupational health and safety before carrying out any pneumatic maintenance operations.
- Do not replace components or make adjustments inside the tool when it is connected to the power supply system.
- To avoid accidents, it must be ensured that the power supply is switched off.

### 3.3 Explosive atmosphere

The ROT-DIS-20 tool is not designed for use in explosive atmospheres (ATEX).

## 4- Description of the tool

### 4.1 Introduction

The ROT-DIS-20 Rotator is a machine designed for the internal cleaning of small diameter pipes.

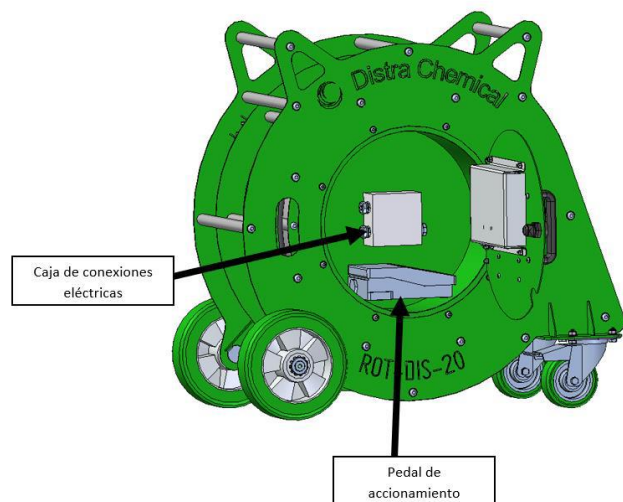
## NOTE

The manufacturer declines all responsibility for any damage or injury, to persons or other equipment, resulting from the use of the tool for an operation other than that for which it was designed.

The ROT-DIS-20 rotator is a machine as defined in Directive 2006/42/EC.

Inside the ROT-DIS-20 there is an electrical junction box, the foot control and the electrical connection cable.

It also has space for the storage of personal protective equipment (PPE).

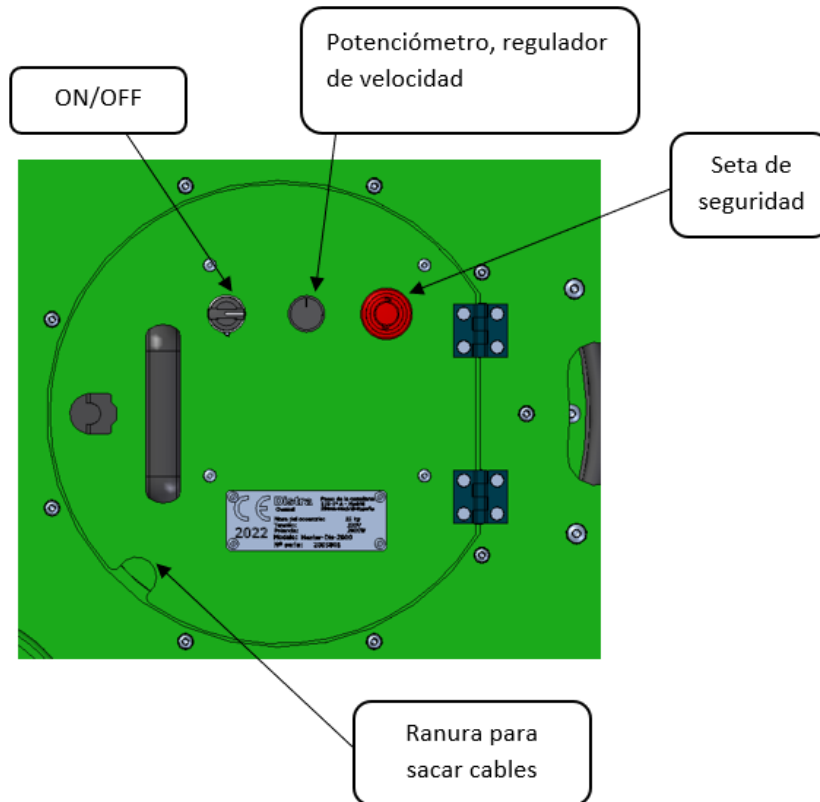


- Electrical connection box
- Actuating pedal

Fig. 1. Internal parts ROT-DIS-20.

On the door you can see the operating controls, on the left is the on/off switch of the machine, in the centre is the speed control potentiometer. Finally, on the right is the safety button, which safely and quickly disconnects the machine from the electrical power supply system.

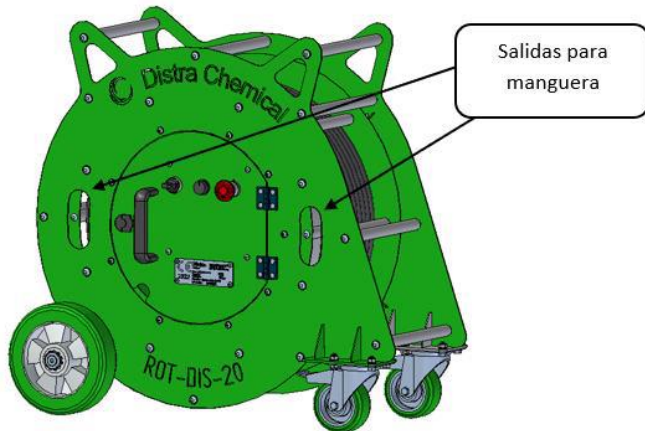
In addition. The cover includes a slot to remove the power supply cable and foot control from the drawer without compressing the cables.



- On/Off
- Potentiometer, speed regulator
- Safety stop
- Slot for removing cables

Fig. 2. ROT-DIS-20 control panel.

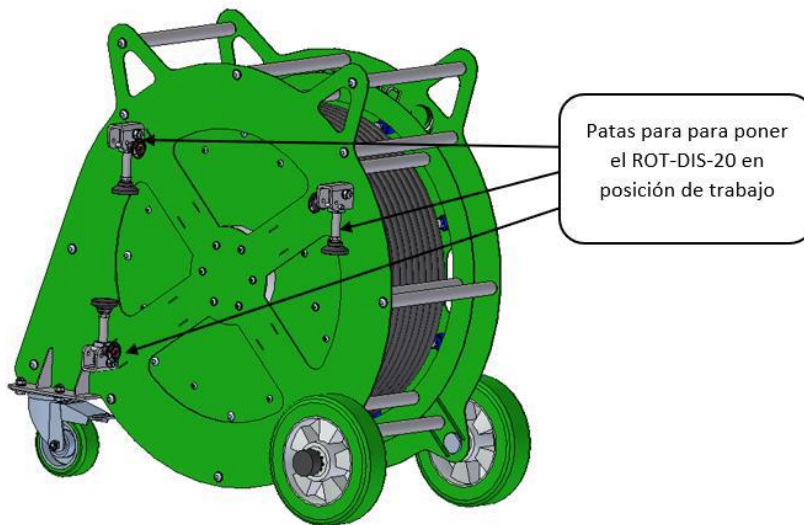
On the sides, there are two openings, through which the rope can be pulled out according to the needs of the operator.



- Hose outlet

Fig. 3. Hose outlets ROT-DIS-20.

At the rear of the machine, there are folding supports to put the machine in the working position. These supports can be easily folded down to make the ROT-DIS-20 a more compact machine.



- Legs for placing the ROT-DIS-20 in working position

Fig. 4. ROT-DIS-20 hinged supports.

Once the folding supports have been removed, the machine is placed in a horizontal position in order to be able to work comfortably and achieve maximum performance from the machine.



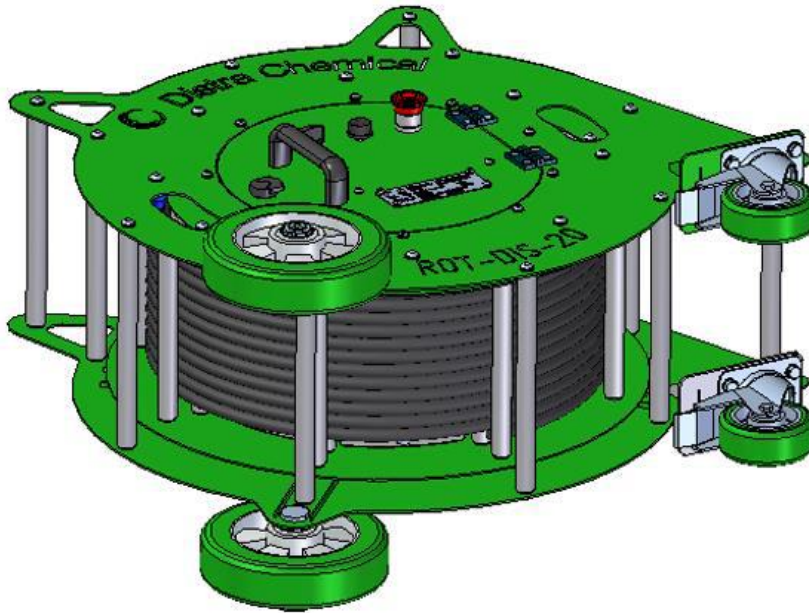


Fig. 5. Working position ROT-DIS-20.

The ROT-DIS-20 Rotator consists of a central drum with the capacity to wind 20 metres of "towline".

#### 4.2 Technical data

GEOMETRY	
Dimensions:	
Long	750 mm
Width	200 mm
High	675 mm
Working hose length	20 m
Ø cable	8 mm
Total mass	57 kg
PNEUMATIC SYSTEM	
Operating voltage	220 V
Frequency	50 Hz

### 5- Operating Instructions

#### 5.1 Personal protective equipment

Operators using the ROT-DIS-20 shall be equipped with the following personal protective equipment (PPE):

- Safety boots
- Gloves
- Glasses

This PPE shall be supplemented by the PPE required in the areas where the equipment is to be used.

## **WARNING!**

The ROT-DIS-20 operator shall at all times wear the minimum PPE recommended for the operation of the ROT-DIS-20.

## **NOTE**

The manufacturer declines all responsibility for any damage or injury to ROT-DIS-20 operators resulting from the non-use of the recommended PPE.

### **5.2 Manufacturer's recommended use.**

The procedure for the correct use of the machine is as follows:

- Place the machine on the silemblocks in a horizontal position, in order to eliminate friction between the "Towline" and the protection hose as much as possible.
- Make sure that the speed control potentiometer is set to minimum before starting work.
- Turn on the machine and gradually increase the speed according to the needs of the pipe.
- Once the work is finished, clean the entire machine and hose with a damp cloth.
- Lubricate the rope with Distra Chemical's specific grease for this use.
- Do not exceed 1 hour with the machine in continuous operation.
- Maintenance instructions

### **6.1 Daily maintenance**

The machine is made up of a large number of mechanical and electrical elements, which require adequate maintenance to ensure the correct operation of the equipment. Lack of maintenance will lead to the deterioration of the ROT-DIS-20 and in the most extreme cases the breakage of components that could endanger the operation of the whole, drastically reducing the safety of operation.

Daily maintenance should be carried out to keep the machine in perfect condition and to avoid unwanted failures.

## **6- Maintenance instructions**

### **6.2 Periodic maintenance**

The maintenance orders must be carried out within the specified time intervals in order to keep the machine in perfect working order.

#### **EVERY JOB**

1. Wipe the hose and rotator with a damp cloth.
2. Grease the "towline".