

INSTRUCTION MANUAL

USEFUL FOR PIPE COATING.

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, 115,1ºA.

28046 Madrid-Madrid

Spain

Declares that the machine:

Description: Bi-component pressure injector with rotary motion for pipe coating.

Model: Spray Pipe Line 1.4

Serial no: 197400

Max. load: 45 kg

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

Complies with the provisions of the Low Voltage Directive 2006/95/EC

Complies with the provisions of the following harmonised standards:

UNE EN ISO

12100:2012 EN ISO

13857:2008 UNE EN ISO

7731:2006 UNE EN

ISO 13857:2020

UNE-EN 842:1997+A1:2008

UNE-EN ISO 14120:2016

UNE-EN ISO 13849-1:2016

UNE EN 981:1997+A1:2008

UNE-EN ISO 12100:2012

UNE EN 60204-1:2007/A1:2009

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 pipe coating tool. 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 to be used for the coating of pipes.

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

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

NOTE	The term "note" is used to indicate important information or usage tips.
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3- 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.

NOTE

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 pipe coating tool 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 tool 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.

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 relating to health and safety at work before carrying out any electrical operations.
- Do not replace components or make adjustments inside the tool while the power supply is on.
- To avoid accidents, it must be ensured that the power supply is switched off.

3.3. Explosive atmosphere

The pipe coating tool is not designed for use in explosive atmospheres (ATEX).

4- Description of the tool

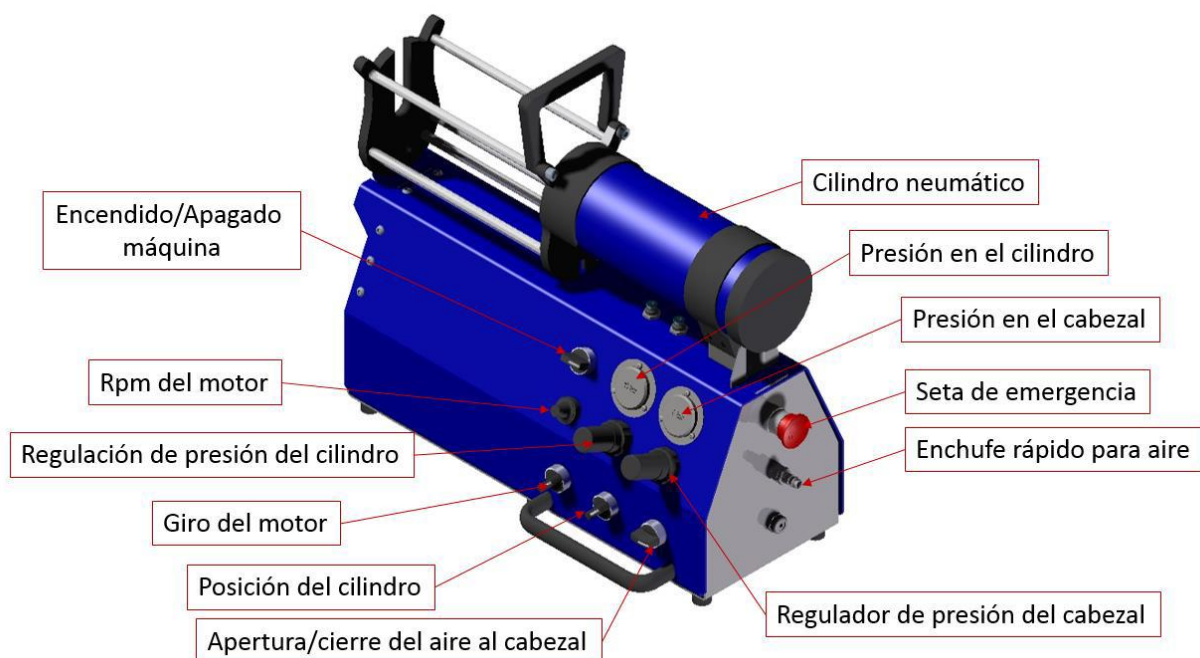
4.1. Introduction

The equipment consists of a non-destructive pipe coating machine, model Spray Pipe Line 1.4 (hereinafter referred to as SPL 1.4).

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 pipe coating machine is a machine as defined in Directive 2006/42/EC.



- ON/OFF Machine
- Engine RPM
- Cylinder pressure regulation
- Engine speed
- Cylinder position
- Air opening/closing to the head
- Pneumatic cylinder
- Cylinder pressure
- Head pressure
- Emergency button
- Plug for air
- Pressure regulator

Fig. 1. Parts of the SPL 1.4.

The pipe coating system consists of a cylinder which gives pressure to the equipment and a motor for the rotation of the head. The equipment has clocks to control the pressure and the cylinder and the pressure at the outlet of the machine.

4.2. Technical data

GEOMETRY	
Dimensions:	
Long	600 mm
Width	255 mm
High	492 mm
Total mass	45 kg
PNEUMATIC SYSTEM	
Minimum working pressure	6 bar
ELECTRICAL SYSTEM	
Tension	230 V

5- Operating Instructions

5.1. Personal protective equipment

Operators using SPL 1.4 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 SPL 1.4 operator shall at all times wear the minimum PPE recommended for the operation of SPL 1.4.

NOTE

The manufacturer declines all responsibility for any damage or injury to SPL 1.4 operators resulting from the non-use of the recommended PPE.

5.2. Pipe coating

The SPL 1.4 shall be placed on level ground.

The steps to be carried out for pipe coating are as follows:

- Attach the hose with the hose head to the equipment at the pressure outlet.
- Plug the machine into the mains.
- And turn the machine selector switch to ON.

ATTENTION

The SPL 1.4 generates a rotation of the head which can be dangerous if the equipment is started up without the head securely fastened. Collisions with other equipment or installations in the vicinity, which could cause severe damage to them or to the SPL 1.4 itself, must therefore be avoided.

6- Maintenance instructions

6.1. Daily maintenance

The machine is composed of a large number of mechanical, electrical and hydraulic elements that require proper maintenance to ensure the correct operation of the equipment. Lack of maintenance will lead to the deterioration of the SPL 1.4 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.

6.2. 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 YEAR

- 1- Check the condition of the pneumatic cylinder and replace if necessary.
- 2- Check the condition of the electric motor and replace if necessary.

7- PLANS