

WIRE ROPE LUBRICATOR

LWRL



Description:

Wire Rope Maintenance is a crucial determinant for the wire rope life !

Wire ropes need to be kept clean and lubricated on a regular basis. Rope tests indicate that the service life of properly lubricated wire ropes can be 2 to 3 times longer than dry unlubricated wires.

Manual lubrication with grease or oil is a dirty, cumbersome, dangerous and time-consuming activity. Furthermore, manual techniques like brushing, dipping spraying etc, do not lubricate the wire rope efficiently. The wire rope consists of many closely fitted wires and strands and external greasing or oiling does not reach the core of the strands.

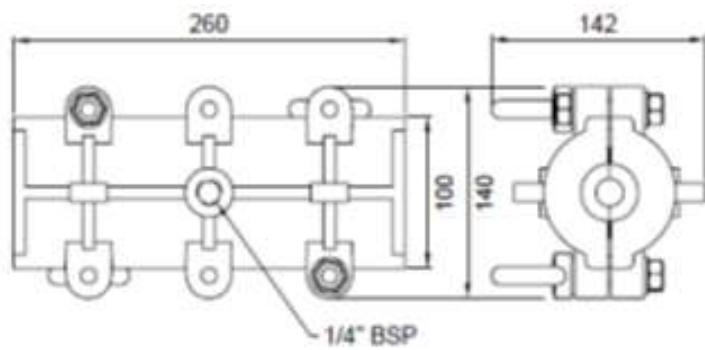
Only high-pressure techniques are effective and efficient at the same time. High pressure applicators make sure the grease is penetrating into the core at the right place. The lubricant itself has very specific characteristics : penetrating, water repellent, water resistant, not containing additives which forms corrosive products that are degrading the wire.

The Lubretec WRL is a specially designed tool for this purpose: a high pressure resistant shell enrobes a grease compatible synthetic seal that is tightly fixed around the wire. These seals are designed to fit the right wire diameter to achieve the most efficient balance: tightness and weariness. There are seals available for steel wires from 16 to 36 mm.

Technical Data

The Lubretec Wire Rope Lubricator kit consists of:

- Light Weight Industrial Lubricator - Applicator unit.
- Synthetic rubber seals dimensioned to the wire rope.
- Diameters from 16 to 36 mm available.
- Special High Pressure Grease pump (60:1 ratio, max 8 Bar) with drum cover and following plate.
- Pump/cover/plate combinations available for 20, 50, 180 kg drums.
- Accessories like HP hoses, valves, air regulator and HP quick connect adapters.
- Fixation tools and Heavy Duty carrying case in Aluminum.



Working principle & procedure

The WRL applicator housing is fitted with the correct seals (see list below) compatible with the wire rope diameter. This WRL is mounted around the wire and tightly fixed with the 6 bolts & nuts. The WRL is then fixed with fixations provided so that it cannot move while the wire runs through.

The high-pressure grease hose is connected to the grease pump. The grease pump is mounted to the drum/bucket with the correct cover and follower plate provided. The air regulator is connected to the plant air line. Normally 5-6 bar should be sufficient.

The principle of semi-automatic greasing is achieved when the wire rope is moving through the WRL applicator at a low speed.

Working principle & procedure

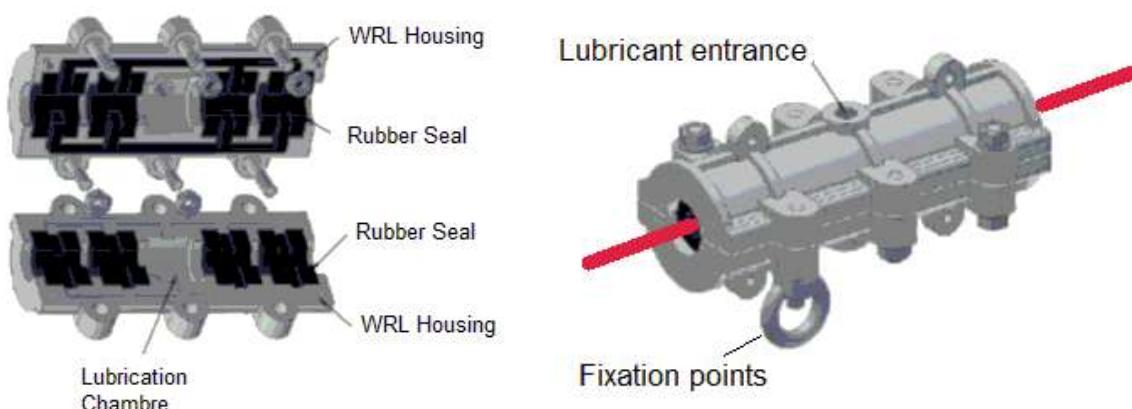
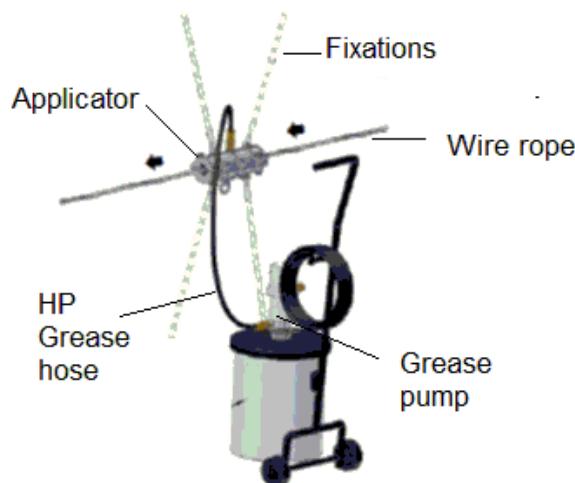
Grease pump air pressure is to be regulated so that the volume of grease is not excessively leaving the WRL but only just leaving a very thin clean film of grease, filling the exterior cavities of the wire rope. The high pressure system will make the grease penetrate into the core of the wire.

The volume can also be regulated and switched on and off with the HP valve fitted between pump and grease hose. The regulation is function of grease type (and exterior temperature), wire speed and diameter and shall be tested and adjusted prior to full speed lubrication.

These seals are very resistant and lubricate +3000 m of wire, depending on the quality of the wire (new or old and rusty).

The system will normally remove old excessive grease and expels internal water before applying new grease under pressure.

Always apply special grease for steel Wire Ropes with good penetrating capacity.



Ordering data

DESCRIPTION

Lubretec Wire Rope Lubricator, Complete Grease unit XX mm wire diameter, XX = diameter seal, see below (6 - 36 mm)

CODE

IZ-WRLD01A0XX

DESCRIPTION

Lubretec Wire Rope Lubricator, Extra Seal Kit for 6 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 7 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 8 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 9 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 10 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 11 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 12 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 13 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 14 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 15 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 16 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 18 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 19 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 20 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 22 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 24 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 25 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 26 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 28 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 30 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 32 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 33 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 34 mm wire
Lubretec Wire Rope Lubricator, Extra Seal Kit for 36 mm wire

CODE

IZ-WRLSD106
IZ-WRLSD107
IZ-WRLSD108
IZ-WRLSD109
IZ-WRLSD110
IZ-WRLSD111
IZ-WRLSD112
IZ-WRLSD113
IZ-WRLSD114
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IZ-WRLSD128
IZ-WRLSD130
IZ-WRLSD132
IZ-WRLSD133
IZ-WRLSD134
IZ-WRLSD136

DESCRIPTION

Lubretec Wire Rope Lubricator, Case for 20 kg drum pump
Lubretec Wire Rope Lubricator, Grease pump HD for 20 kg drum
Lubretec Wire Rope Lubricator, Grease pump HD for 50 kg drum
Lubretec Wire Rope Lubricator, Grease pump HD for 180 kg drum
Lubretec Wire Rope Lubricator, Set fixation for Grease applicator unit

CODE

LT-WRLCASE01
LT-WRLPMP020
LT-WRLPMP050
LT-WRLPMP180
LT-WRLFIXSET

Always re-measure wire rope with gauge before ordering !

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Product Pictures



LT-WRLPMP020
LT-WRLPMP050
LT-WRLPMP180



LT-WRLCASE01



Lubretec Wire Rope Lubricator, Extra Seal Kit
IZ-WRLDS01A0+ mm