



Wire Rope Lubricator



Specialist Lubrication
Engineers



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Models SU35B and SU120 to suit wire rope diameters ranging from 6 to 48mm

Lubrication is, and always will be, a two-fold problem, the choice of lubricant and the means of application. An incorrect choice in either direction will ultimately lead to a serious malfunction. The lubrication of wire ropes is further compounded by the need to penetrate into the rope strands, as this is the only effective method of either reducing or preventing fretting corrosion taking place which causes irreparable damage.

Application by hand with rag, spatula or gloved hand only permits the lubricant to be transmitted in an ad hoc fashion to the **surface** of the rope, in some cases under-lubricating but in most cases over-lubricating. The net results of this are that the lubricant does not penetrate into the rope strands, a substantial waste of lubricant and possible contamination of the surrounding area with waste lubricant that can easily become a serious hazard.

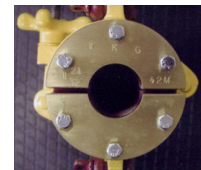
Models SU35B and SU120 lubricators have been designed and developed over many years by the "KIRKPATRICK GROUP" and answer the questions posed in so much as they allow:-

- * The wire rope outer surface and grooved pattern to be wiped clean of water and contaminants.
- * The wire rope to go through a controlled 100% pressurized immersion at up to 45 metres per minute.
- * The lubricant to be forced under pressure into the rope strands preventing fretting corrosion.
- * The correct amount of lubricant to be applied with no contamination of the surrounding areas due to over-lubricating.
- * A reduction in labour costs and increased rope life.

The system comprises a 50:1 ratio grease pump complete with pneumatic filter regulator and lubricator, lubricant flow control, groove cleaning kit, dispensing collar, brass scraper plates and interconnecting hoses.



DISPENSING COLLAR



SCRAPER PLATES



GROOVE CLEANING KIT



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MODEL SU35B AND SU120 WIRE ROPE LUBRICATOR SPECIFICATION



**Model SU35B Standard System suitable for 18kg sized pail.
Model SU120 Standard System suitable for 50kg sized pail**
Lubricating wire rope diameters from 6 to 48 mm equipped as follows.



Lightweight Hinged Aluminium Lubrication Collar (Weight 9.45kg).

Hinged design feature provides safe manoeuvrability and set-up in cramped or high work locations. Single piece design feature protects against accidental dropping of parts that can cause injury to those below. High grade aluminium provides durable yet flexible protection against over-tightening. Recycling valve allows lubricant excess to be re-directed back into the lubrication collar.

Two off 3/8" Shackles

Clear Excess Lubricant Discharge Hose

Standard Seal and Scraper Plate Kit:- (Customer must specify the diameter required when placing complete system order) Four piece brass scraper plates provide a rotational base for the groover assemblies and smooth out the surface coating of the wire rope as it exits the lubrication collar after treatment.

Seals utilise specially formulated, durable, polyurea materials that provide long term protection against chemical and friction wear as compared to nitrile rubber materials that are used in other wire rope servicing applications.

Lubrication chamber design is size specific to a given range of wire rope diameters providing optimum internal pressure levels as well as controlled lubricant consumption and coating levels.

Proprietary seal interlock design keeps both high and low viscosity coatings contained within the internal seals until the wire rope passes from the internal lubrication chamber generating increased penetration.

Groove Cleaner Kit:- Contains 2 individual groove cleaners (The customer must specify diameter and lay required when placing complete system order.). Cleans groove pattern along with the outer circumference of the wire rope for better penetration and coating inside the lubrication collar.

Stainless Steel Lubricant Flow Control Valve:- Rated at 483 bar (7,000 psi) complete with brass quick fix coupling. The control valve allows the operator the ability to control lubricant flow to the lubrication collar and make necessary adjustments for increases and decreases in wire rope travel speeds as well as available air pressure.

50:1 Ratio, 3.31kg per minute Lubricant Delivery System:- High volume feed keeps consistent pressurisation at high wire rope travel speeds. The pump is complete with filter/regulator/lubricator to regulate the pressure, filter contaminants entering the air motor and provide oil mist to air supply as it enters the pump air motor.

Lubricant Supply Hose:- Complete with Brass Quick Fix Couplings 3m length 242 bar (3,500 psi) rated enabling safe quick connect and disconnect functions to be achieved.

18 kg pail sized Follower Plate:- For model **SU35B.**

50 kg pail sized Follower Plate:- For model **SU120**

18kg Drum Cover. For model **SU35B**

50 kg pail sized Follower Plate:- For model **SU120**

Durable Storage Bin.



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Field Application Questions

We offer 9 different operational combinations to cover the broadest spectrum of field applications. We have developed these combinations as a direct result of our own field experience since the system was first introduced in 1982.

It is essential so that we can advise on the most suitable solution to your problem to fully understand your application; therefore please answer the following to the best of your ability.

Briefly describe the application for which you will be using the system.

What is the diameter and lay configuration of each of your wire ropes?

i.e.: 3/4" right lay (6 outer strands)/3/4" left lay (7 outer strands)/2" non-spin or 3" double armor. Note: More outer strands = less lubricant consumption and helps us determine the type of lubricant delivery system for your application.

What is the length of each of the wire ropes to be treated?

What is the largest wire rope diameter that will be treated?

What is your maximum wire rope travel speed? Can you easily control it?

What is the apparent viscosity if using grease or viscosity if using oil of the wire rope lubricant you will be using?

APPARENT VISCOSITY CHART				
NLGI Consistency number	ASTM worked penetration	Oil %	Filler %	Description
000	445 to 475			
00	400 to 430			
0	355 to 385	91	9	Very soft
1	310 to 340	89	11	Soft
2	265 to 295	86	14	Medium
3	220 to 250	77	23	Medium stiff

Please Quote The Oil Viscosity In Centistokes

The system will require a compressor that can provide and maintain 30 to 40 psi for greases, and 15 psi for fluid lubricants with sufficient air flow available for continuous operation to ensure that shutdown is not required while the compressor re-charges the air receiver..

Compressor capacity is especially important for larger wire rope diameters moving at fairly high travel speeds. We recommend a compressor of at least 35 CFM for these types of applications.

Ψ *What method have you been using to perform preventative maintenance on your wire rope up until now?*

Ψ *How often do you perform preventative maintenance?*

Ψ *How long does it usually take?*

Ψ *How many personnel are involved?*

Ψ *What basis do you use to determine that a particular wire rope should be taken out of service?*

Example: NDT electromagnetic testing, visual (number of broken strands per foot), established time frame replacement policy.



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