2021 SALES BROCHURE

LEADERS IN CONVEYOR LUBRICATION TECHNOLOGY

Specialist Lubricants Ltd – Unit 14 Brewster Square, Brucefield Industry Park, Livingston, EH54 9BJ - Tel/Fax: +441506 420083 • Email: general@rm2000t.com • Web: www.rm2000t.com

Leaders in Dry Lubrication Technology on Package Conveyors Since 1999

All parts come with 5-year warranty on the condition that the operating instructions are followed and only RM2000T or RM2000MMF is used in the system.

Use of other lubricants through the system could result in an inferior performance and/or damage to the equipment.

For a quotation or for any other information, please call +44 (0) 1506 420083 or email us at general@rm2000t.com.

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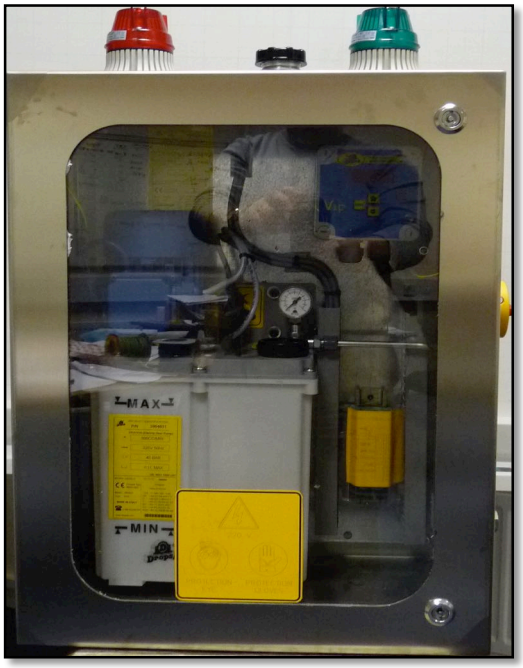
LINE LUBRICATION - PUMPS AND CONTROLLERS

COMPLETE DRAGON LUBRICATION SYSTEM with 6L TANK

The Dragon System is a single line lubrication system. It has no need to circulate the lubricant as Specialist Lubricant's RM2000T® is a stable solution and will not separate under pressure.

The Dragon System can be controlled via the LC30 control system when used on a single line. Where multiple lines are using a single system, the line controllers can operate solenoid valves to each line, opening or closing the feed of lubricant.

- A single Dragon Unit can be used to fulfil the lubrication needs of up to 10 lines
- A single Dragon Unit can lubricate up to 400 lubrication points
- Simple operation
- A timer controls the lubrication cycle
- Single Potential
- Free Input allows control from customer equipment
- Single stainless steel enclosure houses the pump unit and the control module (VIP5)
- Operating Pressure 40 Bar
- Tank Capacity of 6 Litre
- Floating Switch for Low Oil Level Monitoring
- 230V and 110V Supply Voltage available



Contains:

Stainless Steel Enclosure

Dragon Pump

VIP5 Controller

Indicator Lamp (Green/Red)

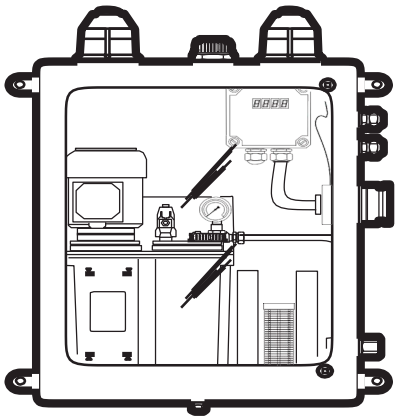
ALL COMPONENTS CAN BE ORDERED INDIVIDUALLY

MANUFACTURED IN THE UK

SL Part No. SLDU001

Dimensions: 25 cm x 60 cm x 45 cm

Weight: 27kg



DRAGON PUMP

The Dragon Pumps is extremely compact and versatile and particularly suitable for lubricating presses, reducers, machine tools, guides and chains. The gear pump interlocks the lubrication circuit and is available in two versions: the first has a flow rate of 350 cm³/min (21.3 cu.in/min), the second has a flow rate of 500 cm³/min (30.5 cu.in/min), both operating at 1500 rpm. The Dragon pump can be customized according to the different needs of the user thanks to a wide range of electric motors and tanks available. It is also possible to equip the Dragon pump with an Integrated Control Panel (entitled VIP Controller, which allows the transmission of programs using infra-red rays) or with a Manual Control device which has to be connected to a separate electronic equipment.

Key Features:

- *At intermittent running is 70 bar (1029 psi) with a three*
- *Phase motor and 40 bar (588 psi) with a single*
- *Phase motor under operating temperature between +5 ÷ +40 °C (41 ÷ 104 °F)*
- *Max. working time of 5 minutes with 1:1 pause ratio*
- *At continuous running is 30 bar for both single*
- *Phase and three*
- *Phase motor under operating temperature between +5°÷ +40°*

Three basic versions available: for lubrication systems with injectors and for recirculation systems with operating pressure < 20 bar (<290 psi) system 01. With a built-in release valve, for lubrication systems equipped with "direct response" feeding devices with operating pressure < 70 bar (<1015 psi) system 33V. For progressive lubrication systems and for circulation systems controlled by progressive feeding devices with operating pressure <70 bar (<1015 psi) system 26.

Maximum Pressure: at intermittent running is 70 bar (1029 psi) with a three-phase motor and 40 bar (588 psi) with a single-phase motor under operating temperature between +5 ÷ +40 °C (41 ÷ 104 °F) and max. working time of 5 minutes with 1:1 pause ratio. At continuous running is 30 bar for both single-phase and three-phase motor under operating temperature between +5°÷ +40°.

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VIP5 Controller

A feature packed compact Advanced Lubrication Controller for small and medium lubrication systems

Key features:
- 3 Operating Modes: CYCLE, PULSE and FLOW
- Integrated LCD, all operating values set by simple menu parameters
- Multi-cycle capable
- NPN, PNP, Namur and simple switch inputs can be connected.
- Min/Max Level Monitoring
- Prelube function
- Coded Remote Alarm System
- 4..20mA / 0..10V Inputs

The VIP5 controller has been designed with an extensive set of parameters that offer unrivalled ease and flexibility for controlling and monitoring your automatic lubrication system - from a simple timed system, injector, progressive or dual line system.

Three operating modes have been designed into the VIP5 to offer control possibilities not found elsewhere in single, compact and affordable unit.
No need for many different version of controllers any longer - the VIP5 does it all.

CYCLE MODE:
This "conventional" operating mode allows the lubrication system to remain on standby either with a time based system, an external signal or a combination of both. When using a combined mode you can decide if the timer should initiate a Lubrication cycle or flag an alarm condition because no signal has been detected within the timeout.

PULSE MODE:
This new operating mode allows the external signal to drive both the Standby and lubrication Phases whilst allowing you to connect your Cycle or pressure switch to monitor that your system is operating correctly during all the lubrication phase.
A Suspend Timer function allows the system to suspend the lubrication phase if the driving external signal ceases.
This operating mode is ideal for chain or conveyor lubrication where the quantity of lubricant is determined by the movement of the conveyor, yet the correct output of lubricant is determined by a cycle or pressure switch connected to the metering devices.

FLOW MODE:
Another new operating mode turns your VIP5 controller into a simple Flow Measuring device. Simply set the flow value and units that each impulse represents and the VIP5 display turns into a flow meter instantly display the flow rate going through your system.
A Minimum and Maximum Flow level can be set to give you a local and remote alarm.

Chain and Accumulator Lubrication Kits

Designed to help customers cut water and electricity consumption, and reduce man-hours required for machine maintenance.

Traditional conveyor lubrication uses very high quantities of water mixed with oil, leaving both the equipment and factory floor very wet and slippery. With Specialist Lubricants Chain Lubrication Kit, the process is nearly completely dry.

There is no water involved, just tiny amounts of oil. 0.03 - 0.06CCs are directly injected in and on to the conveyor belt. This will reduce friction with the package and can double the life of the chain.

Along with our standard, easy to install conveyor kits, we can also manufacture custom kits for any conveyor size and type.

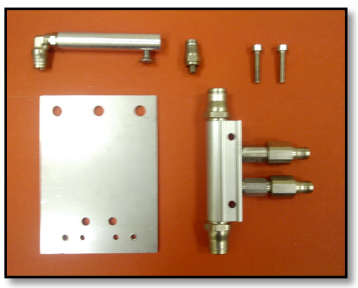
Standard kits take between five and 30 minutes to install, thereby ensuring minimal disruption to operations. Standard Kits include:

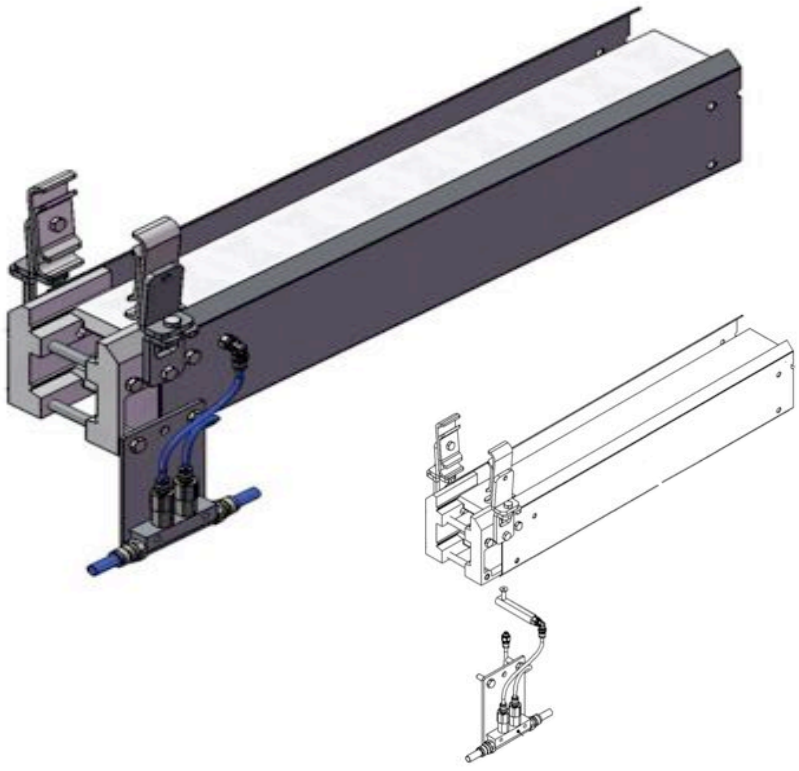
TPC21 Conveyor Kit

SL Part No. SL-PC21

Weight: 345g

Installation time: 10 mins





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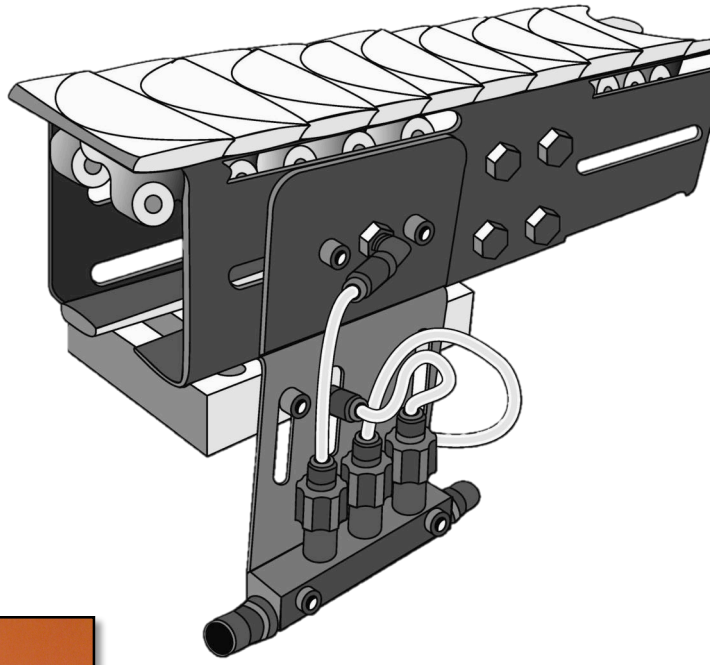
PC23 Conveyor Kit

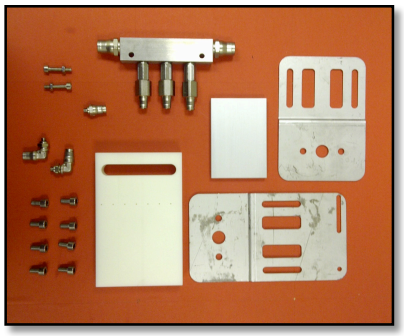
SL Part No. SL-PC23

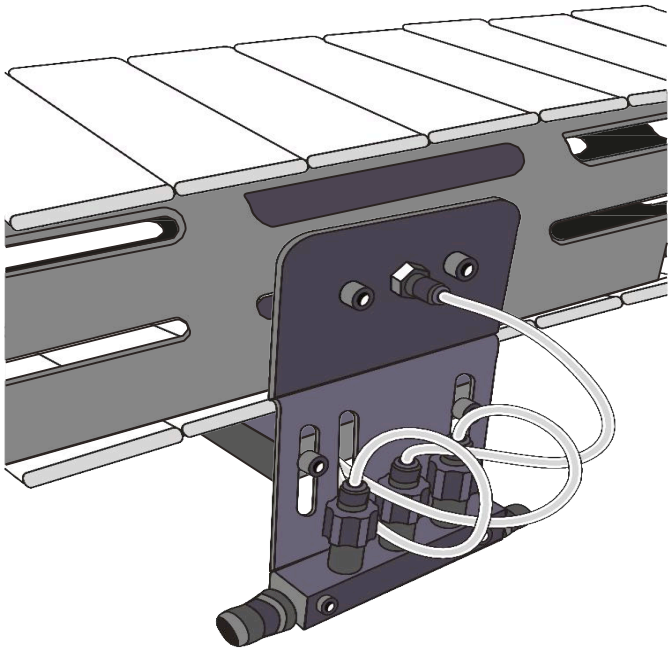
This kit can be installed while the chain is running, thereby ensuring minimal disruption to operations.

Weight: 866g

Installation time: 5 mins







UC24 Conveyor Kit

SL Part No. SL-UC24

Almost identical to the PC23 kit but having longer nylon and anodised plates. can also be installed while the chain is running.

Weight: 1092g

Installation time: 5 mins

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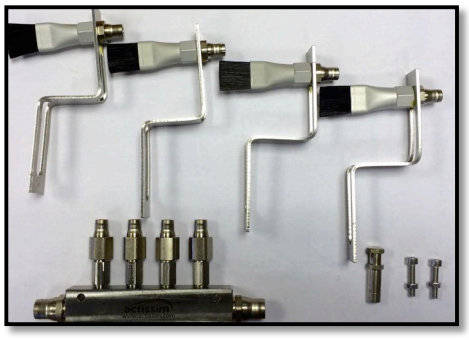
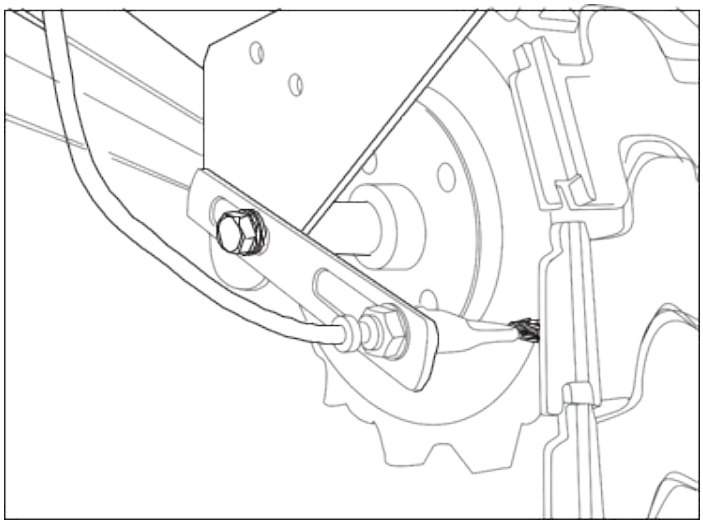
HELIX Accumulator Kit

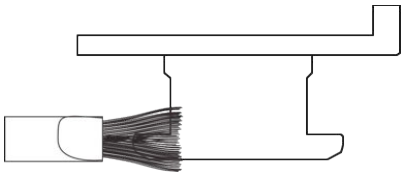
SL Part No. SL-HELIX

Weight: 366g

Installation time: 25 mins







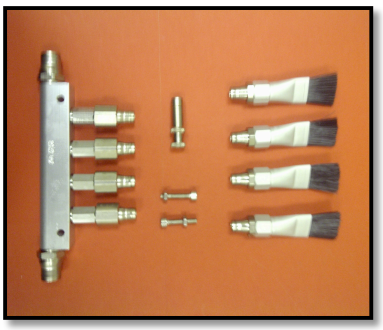
Brush Chain

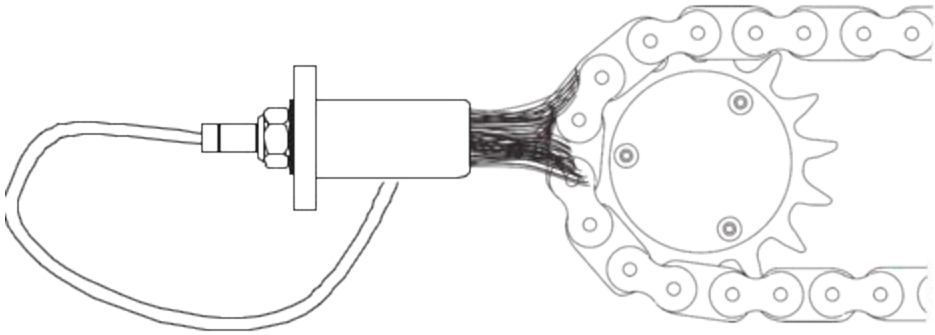
Cardboard Packer Kit

SL Part No. SL-CBP

Weight: 319g

Installation time: 25 mins





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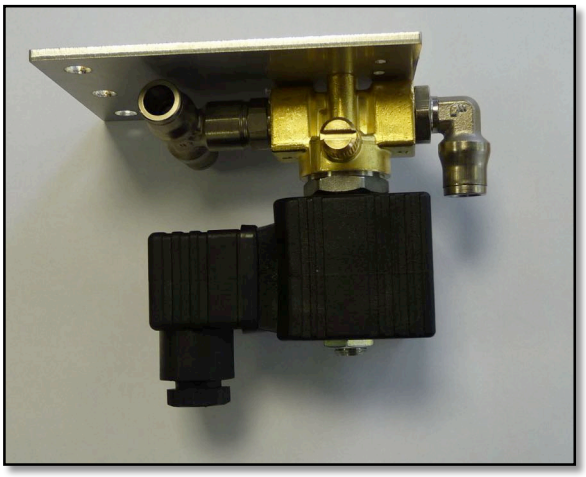
HYDRAULIC 2/2 VALVE 24 VDC ON MOUNTING PLATE

The Hydraulic 2/2 24 VDC Valve is used in Dry Lubrication systems to regulate the delivery of RM2000T to individual system points as required. The materials used have been selected for optimal performance and reliability.

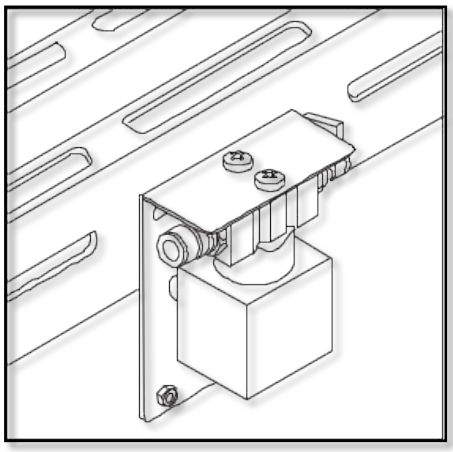
Specialist Lubricants part no:
SLVLV2

Composition:
- Brass Body
- Viton Seals
- Chromed Brass Tee Stud
- Chromed Brass Elbow Stud
- Stainless Steel Plate
- Plastic Casing



Hydraulic 2/2 Valve 24 VDC Specs

Pipe Dimensions	1/4 BSPP
Max Viscosity	53 cSt
Diameter	5.5 mm
Kv	9 l/min
Power	12 Watt
Min Pressure	0 Bar
Max Pressure	40 Bar
M.O.P.D (DC)	3.5 bar



3-Way Valve also available

Weight: 600g

MANUFACTURED IN THE UK

SL Start Up Kit

Designed for installations, this kit comes with tube cutters and a priming pump for priming the 4mm tube with lubricant to ensure even lubrication from the moment the system is turned on. It also has a useful selection of spare parts. Chromed brass fittings for 4mm and 8mm tube, and spare nylon and stainless steel blocks for kits.

Kit contains:

3 X Valve Type B
3 X End Plug 8mm
2 X M5 Straight Stud 4mm
2 X M5 Elbow Stud 4mm
2 X Male Stud 8mm
3 X Female Stud 4mm
1 X Nylon Block
1 X Triple Block
1 X Tube 4mm (2m)
1 X Tube Cutter
1 X Priming Pump

SL Part No. SL-STUP

ALL PARTS MANUFACTURED IN THE UK

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NYLON TUBE AND ACCESSORIES

Available in 4mm and 8mm rolls, SL Nylon Tube is suitable for a vast range of applications.

Features & Benefits

- Lightweight and flexible
- Durable
- Heat and light stabilised materials
- Resistant to crushing, cracking abrasion and work hardening
- Good bend radii
- Suitable for push on and compression fittings

4mm White Nylon Tube is available in rolls of 30m.
OD Tolerances: +0.02/-0.08mm
Burst Pressure: 1595 PSI/110 bar
Bend Radius: 11mm

8mm Black Nylon Tube is available in rolls of 50m.
OD Tolerances: +0.03/-0.10mm
Burst Pressure: PSI/ 122 bar
Bend Radius: 32mm

Material Conformance

RoHs & WEEE - DIN PA12 HI-PHL - DIN 73378/DIN 74324-1 - Sulphur free - Halogen free - Conflict mineral free - REACH compliant - Heavy metal free

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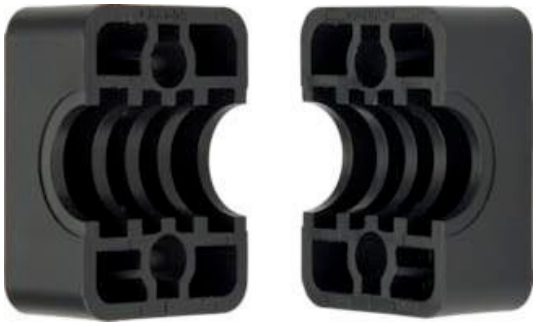
Plastic Tube Cutter to give a clean cut at right angles to the tube ensuring a tight seal on the push-in fittings.
3 to 12mm outer diameter.

SL Part No. SL-TCU

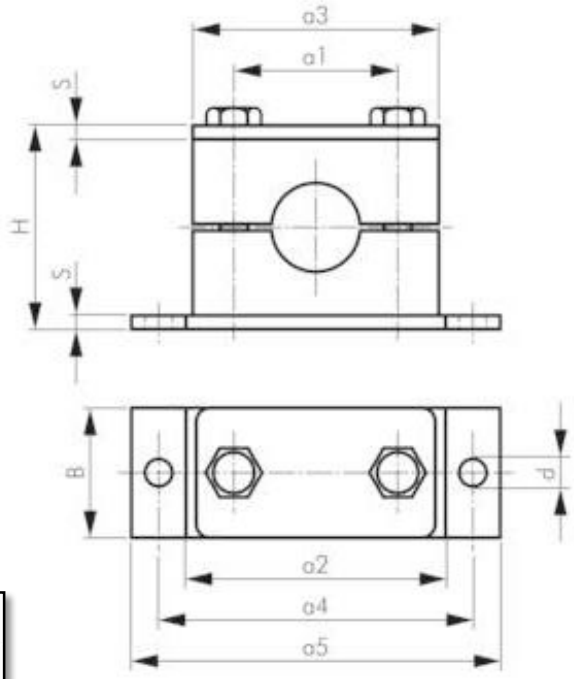
Weight: 27g



Plastic Tube Clamps, 8MM

SL Part No. SL-TCL

Weight: 12g (Pair)



Tube Ø outer [mm]	8
H [mm]	32
B [mm]	30
a2 [mm]	30
a3 [mm]	28
a4 [mm]	44
a5 [mm]	58
S [mm]	3
d [mm]	7

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8MM TUBE CONNECTORS AND STOPS

A selection of tubing connectors suitable for use in a diverse group of industries including food. Suitable for use with all fluids and gases including compressed air, grease, lubricants, water.

PUSH-IN

Composition: Nickel Plated Brass

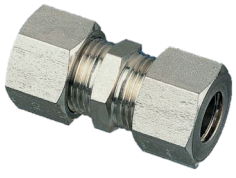
Max Pressure: >60 Bar

Straight SL Part No. SL-FI-CN-S-P-8

Elbow SL Part No. SL-FI-CN-E-P-8

Tee SL Part No. SL-FI-CN-T-P-8

End Plug SL Part No. SL-FI-EN-P-8



COMPRESSION

Composition: Stainless Steel/Brass

Max Pressure: >80 Bar

Straight SL Part No. SL-FI-CN-S-C-8

Elbow SL Part No. SL-FI-CN-E-C-8

Tee SL Part No. SL-FI-CN-T-C-8

End Plug SL Part No. SL-FI-EN-C-8

Also available in Push-In or Compression Selection Bags (3 x each connector and stop).

SL Part No. SEL_CON_P (Push-In) or SEL_CON_C (Compression)

STUDS COUPLINGS

A selection of Push-in tubing connectors suitable for use in a diverse group of industries including food. Suitable for use with all fluids and gases including compressed air, grease, lubricants, water. Solid construction and compact, external shapes easy to clean, components comply with FDA standard, and 1935/2004/EC regulation, excellent resistance to corrosion, individual unit quality control and dating in order to guarantee quality and traceability, RoHS.

Straight Studs

M5x4MM

SL Part No: SL-FI-M5-MS-4

(7g)

M6x4MM

SL Part No: SL-FI-M6-MS-4

(7g)

1/8 BSPP x 8MM

SL Part No: SL-FI-1/8-MS-8

(15g)

1/8 BSPP x 4MM

SL Part No: SL-FI-1/8-MS-4

(9g)

Manufactured from FDA approved materials.
Suitable for both polymer and metal (grooved) tubing.
Abrasion and corrosion resistant.
Compatible with a wide selection of chemicals.
No tools required for connecting or disconnecting.
Suitable for pressure and vacuum scenarios.
FKM (FPM) Fluroelastomer Seals.

Composition: Chromed Brass

Max Pressure: >60 Bar

MANUFACTURED IN THE UK

Elbow Studs

M5x4MM

SL Part No: SL-FI-M5-ME-4

(11g)

M6x4MM

SL Part No: SL-FI-M6-ME-4

(11g)

1/4 BSP x 8MM

SL Part No: SL-FI-1/8-ME-8

(26g)

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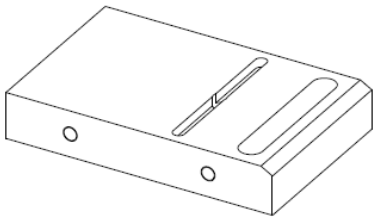
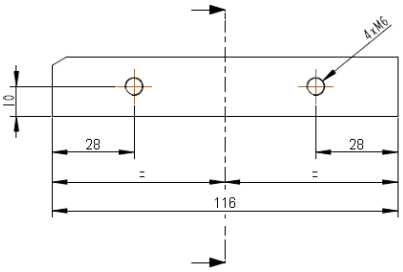
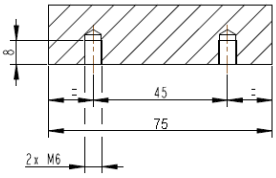
M6 Nylon Block with Inserts

SL Part No. SL-LP-23

Weight: 197g



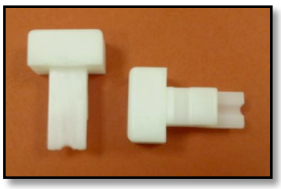


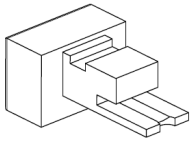


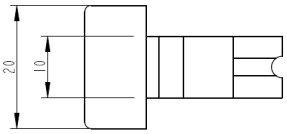
Nylon T-Piece

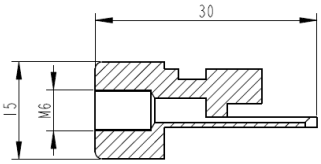
SL Part No. SL-TP-23

Weight: 5g





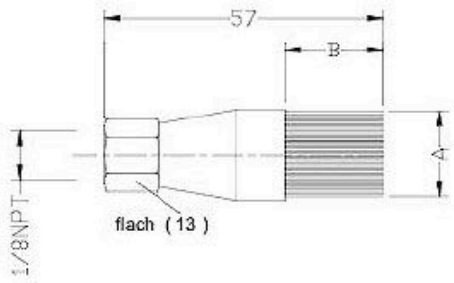




Nylon Brush

SL Part No. SL-BR

Weight: 6g



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Dosing Unit

Stainless steel fixed value metering valves ranging from 0.03, 0.06 and 0.1CC. Can be made to customer specifications from a single valve to eight. M4 mounting screws and nuts included.

1-Valve Dosing Unit
SL Part No. SLDU001

2-Valve Dosing Unit
SL Part No. SLDU002

3-Valve Dosing Unit
SL Part No. SLDU003

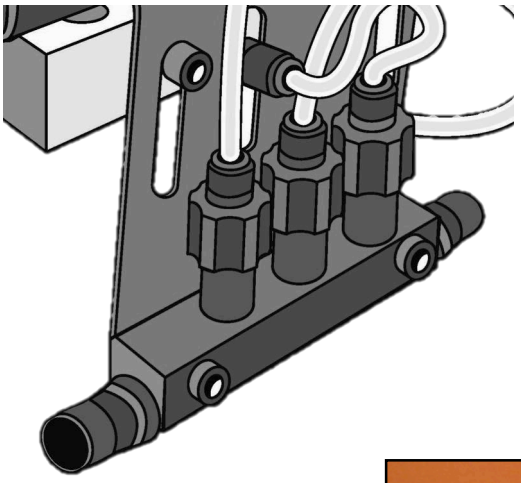
4-Valve Dosing Unit
SL Part No. SLDU004

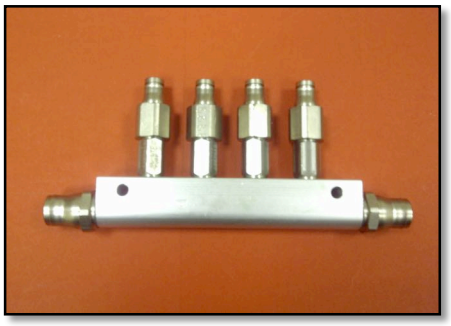
5-Valve Dosing Unit
SL Part No. SLDU005

6-Valve Dosing Unit
SL Part No. SLDU006

7-Valve Dosing Unit
SL Part No. SLDU007

8-Valve Dosing Unit
SL Part No. SLDU008





RM2000T® DRY LUBRICANT with PTFE

RM2000T® is an oil based PTFE lubricant which is completely food grade. It is the result of a special process that ensures the Teflon remains in suspension in the oil for long periods. This capability means it can be dosed in small quantities onto the specific conveyer parts where it is needed knowing the Teflon will be where it is required.

Other "dry lubricants" are aqueous based emulsions of silicone and water, which promotes bacterial growth. RM2000T® has an oil base and is totally inert and will not promote bacterial growth.
Some lubricants are water miscible and will mix with juice and milk spilled on the line making the chain sticky and increasing friction on the package. RM2000T® cannot mix with spillage and, as it contains PTFE, expels spilled product from the chain.
Other lubricants are sold to the customer on "added value calculations". In other words, the more you save, the more money you will pay for the lubricant and its "free" system. RM2000T® is sold by the litre and our system is guaranteed for 5 years and wholly owned by the customer. This means ALL of the savings and benefits remain with the customer and you only pay for what you use.

Saving on fresh water, effluent and chemical costs
Elimination of slip hazards
RM2000T® replaces water based silicon lubricants
Improves friction reduction using PTFE
Elimination of damage to packaging and labels
Reduction of chain wear
Removal of bacterial growth
Improvement in production
Reduction of unit costs
Improvement of the working environment

RM2000T Dry Lubricant is available in:

- 6L Boxes (6 x 1L bottles)
- 10L Boxes (2 x 5L bottles)
- 205L Drums

Manufactured in the UK

For a quotation or to see our full range of Lubricants, Oils and Greases, including SL Hi Speed, SL Hi Load and RM Nano, please visit our website or email us at general@rm2000t.com.

Specialist Lubricants Ltd – Unit 14 Brewster Square, Brucefield Industry Park, Livingston, EH54 9BJ
Tel/Fax: +441506 420083 • Email: general@rm2000t.com • Web: www.rm2000t.com

NEW RM2000MMF® Range

According to the new legislative proposal to the European Parliament, the food industry will be required to minimize the use of mineral oil MOSH/MOAH.

Specialist Lubricant Ltd has created the new RM2000MMF MOSH & MOAH free Range, the only MOSH/MOAH free conveyor lubricant, oils and greases presently on the market.

MOSH / MOAH FREE

RM2000MMF® is synthetic oil based conveyor lubricant, oils and grease consisting of evenly distributed PTFE particles. It was designed for use in food & drink and packaging industries.

RM2000MMF® was developed to be used as a lubricant for chains and production lines, but it is also recommended as a lubricant for other gliding surfaces in food production environment, drink and packaging.

The product is compatible with RM2000T products and can be introduced into our systems where it will quickly replace it.

NSF REGISTERED

RM2000MMF Dry Lubricant is available in:

- 6L Boxes (6 x 1L bottles)
- 10L Boxes (2 x 5L bottles)
- 205L Drums

RM2000MMF Grease is available in:

- 400ml Cartridges

Manufactured in the UK

For our full range of Lubricants, Oils and Greases, or more information in to the MOSH/MOAH Legislation, please visit our website or email us at general@rm2000t.com.

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