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Issue No 5

JUNIPER NEWS

Be wise and Juniperise!

OUR EXPERIENCE IS YOUR GUARANTEE

Juniper has just celebrated its 20th year since the purchase of the original business from the much respected founding family.

Mr. Albert Thomas Juniper, who started the company in the early 1940s, ran it until his death in 1961, when his wife, Helena Grace Juniper, took over. She sold Juniper to my company in 1978.

We go into the first 20 years of the Millenium with confidence in our ability to meet your exacting and ever-changing requirements for precise maintenance, performance efficiency and safety.

I am happy that my three sons are being trained as part of the next chapter in Juniper's fine history.

Christopher is now in production engineering and sales, Steven in purchasing and computing and Andrew is an apprentice technician.

A visit to the Fleet Air Arm Museum at Yeovilton sharply reminded me of the company's long trading record. In a tableau devoted to the Women's Royal Naval Service, a Wren is depicted feeding engine oil into a Harvard training aircraft from a Juniper unit (see backpage). Other Juniper rigs are evident in the workshop area of an aircraft carrier.

We met the stiff challenges of earlier days - and welcome those of today.

Steve Marshall
Managing Director

Juniper has been awarded a contract to supply 37 Foamer 250s to the Royal Air Force and Royal Navy. The contract is currently in production and involves commissioning the equipment on site. Rigs have already been delivered throughout the UK, from RAF Lossiemouth, Scotland, to RNAS Culdrose, Cornwall. Aircraft washing during these visits has been carried out on the following range of aircraft: Tornado, Harrier, Jaguar, Hawk Tucano Bulldog, Tri-star, E-3 AWACS, Sea King and Puma.



Commissioning of a Foamer 250 Single Outlet
NSN 4940-99-9171459 at RNAS Yeovilton

JUNIPER NEWS

COMMISSIONING

We now place great value on personally commissioning our equipment, following the successful provision of Compressor Washing rigs for the Royal Australian Air Force's P3 and Hercules aircraft.

We then applied the idea to a Foamer 250 at RAF Waddington in the UK. The value to Juniper is that, as designer and manufacturer, we receive first-hand information about the working environment and have the opportunity, beyond the manual, to ensure all personnel know how to use and maintain our equipment effectively.

Handy techniques in washing aircraft and improving maintenance programmes have been exchanged during these commissioning sessions.

We believe commissioning is a big step forward. It leads to a better relationship between customer and supplier - and cost savings through efficient use and maintenance of equipment.



Foamer 250 Dingle Outlet being commissioned at RAF Valley
NSN 4940-99-0171459

Hydraulic Rig



Our handy lightweight purging rig (JMP/HYD/D/4195) has been further developed into a handy hydraulic rig. Twelve units were purchased by the Royal Netherlands Navy to enable them to charge the Lynx helicopter oleo legs on board their frigates.

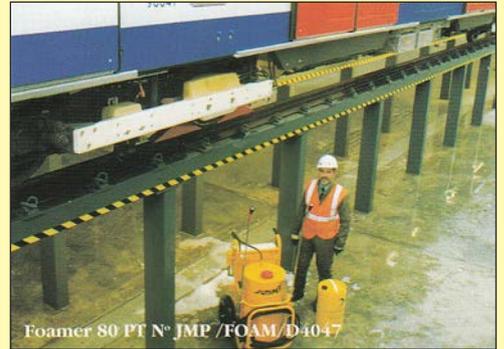
The new rig has a capacity of 5.3 litres, develops pressure up to 200 bar (3000psi) and has a filtration of 2 micron absolute.

Train wash with Foamer 80

London Underground has purchased our Foamer 80 for use at its new Jubilee Line maintenance facility. Juniper has also been included in a development for under-frame cleaning with Atlantis, who represent Karcher, the German pressure washing specialists.

Dasic International Ltd., a leading chemical supplier in the aviation and rail industries

and Juniper are cooperating in the development of new cleaning methods for the rail industry, dealing with problems such as removal of leaf fall debris, contamination from cast iron braking systems on rail vehicle body sides and the cleaning of underframes and bogies.



Foamer 80 PT N° JMP /FOAM/D4047



GE 90 Inhibiting Rig

PT N° JMP /146/D/0980/C200



PT N° JMP /PEG/0173/RAF
NSN 4920-99-5512189

Fuel System Inhibiting

General Electric's assembly and test facility site at Peebles, Cincinnati, purchased a 50 gallon special-to-type rig for inhibiting the GE90 engine fuel system before shipment of the engine to all parts of the world.

The UK Ministry of Defence has chosen our small unit, designed for Rolls Royce's Pegasus engine. The 36 ordered rigs are being used for most of their in-service aero engine inhibiting requirements. Improvements in the original design ensure the system being inhibited cannot be over-pressurised. Capacity of the rig is 10 imperial gallons, and the pressure range 0-300psi.

CORROSION PREVENTION

A Chromic Acid Dispensing Rig for corrosion prevention on the Bae 146 aircraft wing section was supplied to Air UK Engineering in 1998.

This rig is a development of our Foamer 40 and allows the acid solution, followed by rinse water, to be safely applied down the wing section.



Pt. No: JMP/146/D/4306

New De-Icing Rig For Helicopters

Our new de-icing rig is a development of the 19 litre Cougar compressor washing rig. It has been purchased by the RNLAf for use on Chinook and Cougar helicopter blades.



PT N° JMP /ICE/D/4252/C200

COMPRESSOR WASHING

- Air France are carrying out compressor washing trials using our 2 x 25 gallon rig with engine probes for the GE90, CF6-80C2, CFM56-3 CFM 56-2/5.

- We await the final results from SNECMA after trials with the same rig on the A320 aircraft in San Francisco and Minneapolis.

- BMW Rolls Royce have bought a rig for washing trials on the BR710 engine, which has been selected for the BAe Nimrod MRA4.

- New is the 2 x 12 gallon compressor washing rig for the Harrier and Merlin helicopter. The rig for the Merlin, which is fitted with three RTM322 engines, is a development of the Harrier and Ardour rigs. Approval by Lockheed and Turbomeca was given after trials at GKN Westland. The rig had to be available for a new Merlin squadron formed last December at RNAS Culdrose.

- Further engine probes have been developed for the RB211-524G/H, and purchased by GE in South Wales. The probes are being used in the test cell, but we see no reason why they should not be employed on wing.

- Industrial compressor washing rigs are still at the forefront of production, with over 30 units sold to Alstom Gas Turbines (formerly European Gas Turbines) last year. These included a special static unit of our popular diaphragm pump model. These rigs are part of their turbine package and are sent to all corners of the world.

- A development of a 1-inch industrial diaphragm pump rig was supplied to GKN Westland Helicopters for dispensing fuel for fire fighting training.



JMP/EH/D/0760/COM500
RR REF S.3.S 20243000



Fuel Dispensing Rig
JMP/RGT/D/1358/C200

Oil Replenishment and Top-Up



PT N° JMP /EH/D/0647/C300

A new 14 gallon (65 litres) Gearbox Replenishment Rig for the EH101 was supplied to GKN Westland Helicopters in 1998.

Two of our popular 5 gallon (MK 8) rigs have been delivered to London Underground for use at the new Jubilee Line maintenance facility at Stratford Market. These are being used for replenishment and top up of train gearboxes and compressors.

JUNIPER'S MUSEUM PIECE...



Juniper joined the Wrens in much of their important work keeping the fleet's pilots airborne. Here a Wren is depicted feeding engine oil into a Harvard trainer using one of our Mk2 rigs at the Fleet Air Arm Museum at the Royal Naval Air Station at Yeovilton.

FOAMER ACCESSORIES

A 2-Station Blender has been supplied with our Foamer 50s for washing trains. It has been calibrated to deliver pre-mixed Dasic Rail Cleaner R2020 in ratios of 6-1 and 20-1, ensuring economical use of product and consistent foam application.

BARREL DISPENSER

A 205 litre Gel Barrel Dispenser has been supplied to Dasic International.

The unit clamps to the barrel of A320 Gel to allow the product to be directly dispensed. A 10 metre delivery hose and one metre Gel gun are supplied with the kit. An air line pressure of 60-80psi is needed to operate the unit.



PT N° JMP /GEL/D/4464

AIRCRAFT VACUUM TOILET CLEANING



An extra 65 gallon water tank on the Juniper Aircraft Vacuum Toilet Cleaning Rig (JMP/KLM/D/1953/C500) has made it much more user friendly. Britannia are currently using the rig on their fleet of Boeing 767s at London Luton Airport. Boeing themselves have named us as a supplier of this rig in a recent service bulletin.

WORLDWIDE REPRESENTATION

AUSTRALIA, BELGIUM, FRANCE, DENMARK, GERMANY, ITALY,
NETHERLANDS, NORWAY, PORTUGAL, SINGAPORE,
UNITED ARAB EMIRATES, USA



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