



INDUSTRIAL LUBRICATION EQUIPMENT

MINING AND CONSTRUCTION





SAMOA QUALITY

For more than 50 years Samoa has been manufacturing equipment for the lubrication professional. Our extensive program, fully designed and manufactured in Samoa's own facilities, ranges from grease fittings and hand operated equipment to air operated pumps, hose reels, control guns, meters, waste oil and other fluid collection systems and fluid dispense and inventory control systems. Our products are present in more than 100 countries in the five continents and are used in all kinds of industries and environments.

Samoa lubrication products are engineered to meet the most demanding requirements and have become the quality reference in many markets.

Located on the northern Spanish coast, Samoa's manufacturing facilities are modern and are equipped with the latest state-of-the-art production equipment and technology. We are committed to manufacturing excellence, environmental sustainability and a healthy and safe workplace. Our facilities and work processes are subsequently ISO - 9001: 2000, ISO 14001 and OSHAS 18001 certified.



Product Research and Development is a fundamental part of Samoa's philosophy. We are in permanent contact with the market to identify new needs that we satisfy with product improvements and new products. Our continuous product improvement ensures that our products meet the requirements of worldwide in even the most demanding applications.

Our products are available through a selected network of knowledgeable distributors. This network provides a sales and consulting service to identify the products that would best meet your needs, and when required after sales service to ensure a long and satisfactory use of our equipment.

AIR OPERATED PISTON PUMPS

The choice of a pump requires a wide variety of factors to be considered so that your system will provide years of dependable service. Samoa has engineered a broad offering of pumps to handle a wide variety of applications. This range of pumps will fit original container sizes and bulk storage tanks, covering applications ranging from the transfer of oil and grease to very large centralized systems.

PUMPMASTER 2

These are high efficiency air operated pumps specifically designed for lubricant transfer, distribution packages and small systems. They have an innovative air motor with a patented air valve. The air valve provides the pump with a very fast reciprocating action that contributes to improved pump performance. PumpMaster 2 pumps are available with 1:1 and 3:1 pressure ratios for transfer and small distribution systems.

PUMPMASTER 3

These are 55:1 pressure ratio grease pumps designed for mobile and portable units. They are light but powerful pumps with a high effective pressure ratio. They are the right choice for light applications when high pressure is required. Pumps are available to fit all standard container sizes.

PUMPMASTER 3+3

These are 60:1 pressure ratio grease pumps. They are very reliable heavy duty pumps that offer the extra pressure and delivery required for the most demanding applications. They are dependable pumps for use in systems that include distribution lines and hose reels. PumpMaster 3+3 pumps can also be used in mobile and portable application when high pressure and high flow are required.

PUMPMASTER 4

These pumps Heavy-Duty air operated pumps are designed for lubricant distribution systems. Their proven highly reliable air motor and high performance pump makes this pump family the preferred choice in the most demanding oil distribution systems. PumpMaster 4 pumps are available with 3:1 and 5:1 pressure ratios.

PUMPMASTER 6

These pumps are high performance, high pressure pumps for applications with long piping distances, cold temperatures or when low air pressure would limit pump performance. Severe Duty construction for maximum reliability. PumpMaster 6 pumps are available with 10:1 pressure ratio for oil and 55:1 pressure ratio for grease.



AIR OPERATED DOUBLE DIAPHRAGM PUMPS

Air operated double diaphragm pumps are very versatile pumps that can be used with a wide range of fluids in multiple applications.

Samoa DirectFlo® diaphragm pumps are different and offer multiple advantages. In most conventional design diaphragm pumps, the wet side of each diaphragm is on the outside and the dry side is on the inside. This means that manifolds, which create added friction and pressure loss, are required for collecting the fluid into the pump and for its delivery. Traditional diaphragm pump designs also result in negative consequences such as high air consumption, highly pulsating flow, complicated maintenance, etc.

DirectFlo® pumps work differently. The pumped fluid follows a straight and direct flow path, through the interior of the pump body. This way, DirectFlo® pumps avoid using manifolds. As a consequence of their innovative design DirectFlo® pumps present the following advantages when compared with traditional external flow pumps:

- Compact design.
- Reduced air consumption.
- Reduced flow pulsation.
- Superior performance against back pressure.
- Improved suction capacity.
- Increased diaphragm and shaft life.
- Reduced number of components.
- Lubricant free air motor.
- Extremely easy maintenance.
- In-line installation.

High value innovations for the market

DirectFlo® pumps are designed to be used as both transfer and system pumps. As system pumps, they can work on demand, starting immediately after opening a delivery valve and stopping once it is closed. In the stalled condition the pump has no air leaks, a common issue with diaphragm pumps.

DirectFlo® pumps for transfer and evacuation of:

- Lubricants.
- Waste oil.
- Anti freeze solutions.
- Windshield wash solutions.
- Contaminated water.



PATENTED WORLDWIDE
directflo®



HOSE REELS

Samoa hose reels are used around the world and they have been designed to be premium quality fluid reels. Properly positioned, a hose reel will increase productivity. Safety in the shop is enhanced because hoses are retracted when not in use and so hose training across the floor are eliminated. Hose life is greatly extended since hoses are not dragged across the floor, nor walked upon, nor driven over since the hose is always ready at hand and can be retracted out of the way when not in use. Hose reels can be mounted on wall, ceiling, floor or on top of tanks, benches, etc. Samoa offers a wide range of mounting accessories to help with the installation of an individual reel or a reel bank.

All Samoa reels have:

- Superior power spring life. Special fatigue resistant steel spring guarantees long life and trouble free operation.
- Heavy duty ratchet, with large effective radial latching area for an easier and user-friendly operation.
- Metal arms, enclosures, base and spool are epoxy powder coated for increased wear resistance.
- Samoa only uses high quality hoses, specially formulated for use in hose reels, from established European manufacturers.



501 SERIES

Double pedestal hose reel for air, low pressure water, medium pressure lubricants and high pressure grease. All metal construction, can handle up to 10 m (30') of 1/2" hose.

502 SERIES

Individually enclosed hose reel for air, low and high pressure water, medium pressure lubricants and high pressure grease. All metal construction, can handle up to 10 m (30') of 1/2" or 13 m (43') of 3/8" hose.

504 SERIES

Heavy Duty reinforced double pedestal hose reel for air, low and high pressure water, medium pressure oil and high pressure grease. All metal construction, can handle up to 15 m (50') of 1/2" hose.

505 SERIES

Heavy Duty reinforced double pedestal hose reel for low pressure air and water and medium pressure diesel and lubricants. All metal construction, can handle up to 15 m (50') of 3/4" hose or 20 m (65') of 1/2" hose.

506 SERIES

Aluminium and composite material single arm hose reels for air, water, oil, antifreeze, windshield wash fluid, high pressure hot and cold water and grease with hose capacity up to 15 m x 1/2" hose.



PUMP PACKAGE SOLUTIONS

Even the simplest lubricant dispense or transfer application requires more than a bare pump. Samoa offers a range of pump packages that include all the accessories needed to efficiently transfer or dispense lubricants. Packages can be used with 185; 50; 20; 18 and 12,5 kg grease drums, 200 litres oil drums and 1000 litres IBC. They provide an easy solution to simple and common applications.

Mobile and portable equipment are simple and cost effective solutions for transferring and dispensing low consumption lubricants or in situations where there are no fix service areas.

GREASE



453602

PM3+3 / 60:1 grease pump package with 15 m hose reel

423150

Mobile greaser, 50 kg, with 55:1 PM3 grease pump

424172.030

Mobile greaser, 20 kg, with 55:1 PM3 grease pump

OIL



454010

PM2/1:1 pump with hose and meter

376300

Mobile oil dispenser for 200 litres drum

454605

PM2 / 1:1 oil pump package with 10 m hose reel and meter



CONTROL GUNS AND METERS

Samoa meters and control guns are engineered for durability under the toughest working conditions. Samoa meters and control guns provide control on the delivery of all service fluids like medium pressure lubricants, high pressure grease and low pressure coolant, antifreeze and windshield wash solutions.

The oval gear meters can include a mechanical or a large character electronic digital display. Meters with electronic digital displays, which are powered with two easy to replace AAA alkaline batteries, provide higher accuracy thanks to their easy calibration and they are recommended for indoor applications. Meters with mechanical display can stand the most demanding environments and they are recommended for outdoor applications.



GREASE



UNMETERED
413077
Grease control gun



METERED
415002
Grease control with meter and z-swivel

OIL



UNMETERED
363078
Oil control gun



UNMETERED
363051
High volume oil control gun



METERED
365603
Hose end meter with digital display

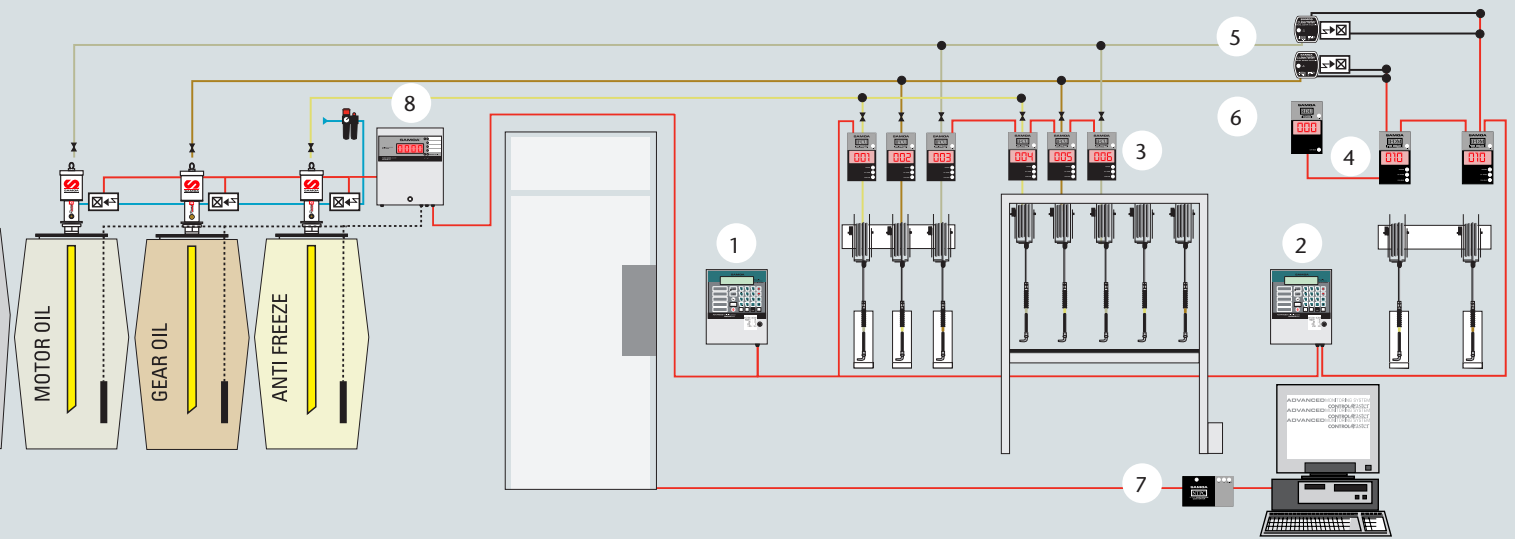


METERED
365853
Hose end meter with mechanical register



METERED
365300
Preset hose end meter with digital display





ADVANCED MONITORING SYSTEM

Fluid Management in today's shops poses several challenges. As the size of the shop increases, properly dispensing and controlling fluids challenges older system and equipment. Additionally, the increased cost of today's lubricants and the popularity of synthetic lubricants place a higher demand for the proper accounting of lubricants usage. Samoa is proud to lead the industry with our proven offering of inventory and fluid dispense management products. From the simplest entry level console to sophisticated computerized management system, we can supply the equipment required for the professional Management of both new and used fluids.

The Advanced Monitoring System (AMS), the software at the heart of our state-of-the-art fluid and inventory management system, has been installed in several thousand facilities around the world. Samoa has created a system designed to improve profitability through controlled fluid distribution and work-order accountability. The system's ease of integration allows you to design any size of installation using a minimum number of components, adaptable from a single-point dispense system to the largest system including more than 100 fluid outlets. This modularity also allows the integration of complementary functions, such as remote displays, stock level detectors, volumetric measuring probes, control access points and the automatic scheduling of any "on/off" function and guarantees the possibility evolution should new needs arise.

The AMS is designed to satisfy the needs of:

- A.-** The user, who will be guided during the delivery transaction by a rolling menu and who will also have access to innovative functions like automatic identification by coded key, multi-fluid delivery against one work order and top up option on request
- B.-** The supervisor, who will have access to a wide choice of parameters that will allow him to set up the system management criteria to best meet his specific needs. Through easy to use rolling menus, he will be able to modify operator authorizations, to adjust tank levels and to access a wide range of statistics.
- C.-** The installer, who will be able to easily install and set up the system.

The entire system can be controlled through a PC using a PC interface and communications adapter together with special software. It also allows communication with the workshop Data Management System using an additional communication software.

For more information please contact your local Samoa distributor.

- 1 AMS ACCESS KEY PAD WITH APPLICATION SOFTWARE MEMORY MODULE (PN 381 001 + PN 381 600)
- 2 AMS ACCESS KEY PAD (PN 381 001)
- 3 INTELLIGENT FLOW CONTROL UNIT (PN 381 500)
- 4 INTELLIGENT FLUID DISPENSE MANAGER (PN 381550)
- 5 PULSEMETER AND SOLENOID VALVE (PN 600 281+PN 389 001)
- 6 REMOTE DISPLAY UNIT (PN 381 300)
- 7 NETWORK PROTOCOL CONVERTER (PN 381 300)
- 8 TANK INVENTORY SYSTEM (PN 382 100)

MISCELLANEOUS PRODUCTS

Samoa offers a range of hand operated products for solving the simplest needs. Our product range includes, among other products, the following:

Lever action grease pumps. With heavy duty cast iron pump head for a constant high pressure and delivery through the long pump life.

Grease bucket pumps. Heavy duty design, they are the preferred choice for high pressure greasing and high delivery when compressed air is not available.

Transfer pump. A wide range of lubricant transfer pumps for fast, clean and efficient transfer when compressed air is not available.

OIL



304500
Lever action barrel pump, 50 - 220 l drums

605000
Heavy duty barrel pump, 50 - 220 l drums

GREASE



168600
Air operated hand-held grease pump



101200
Lever action grease pump



150000
Multi-pressure grease bucket pump



TECHNICAL SPECIFICATIONS AND PART NUMBERS

AIR OPERATED OIL PISTON PUMPS							
MODEL PUMP RATIO	UNIVERSAL SHORT PUMP	50 l – 16 Gal DRUM	205 l – 44 Gal DRUM	AIR MOTOR DIAMETER	AIR PRESSURE OPERATING RANGE	MAX. FLUID DELIVERY	MAX. FLUID OUTLET PRESSURE
PUMP MASTER 2							
1:1	351120	N/A	352120	51 mm – 2"	3 – 10 bar 45 – 140 psi	55 l/min 14.5 US gpm	10 bar – 140 psi
3:1	353120	356120	354120	51 mm – 2"	3 – 10 bar 45 – 140 psi	35 l/min 9.3 US gpm	30 bar – 420 psi
PUMP MASTER 4							
3:1	340120	N/A	341120	88 mm -3.5"	3 – 10 bar 45 – 140 psi	41 l/min 10.8 US gpm	30 bar – 420 psi
5:1	347120	N/A	348120	88 mm -3.5"	3 – 10 bar 45 – 140 psi	30 l/min 8 US gpm	50 bar – 700 psi
8:1	349120	N/A	N/A	88 mm -3.5"	3 – 10 bar 45 – 140 psi	22 l/min 5.8 US gpm	80 bar – 960 psi
PUMP MASTER 6							
10:1	343000	N/A	N/A	160 mm – 10.3"	3 – 10 bar 45 – 140 psi	30 l/min 8 US gpm	100 bar – 1.400 psi

AIR OPERATED GREASE PISTON PUMPS							
MODEL PUMP RATIO	12.5 – 20 kg / 44 lb pail	50 kg / 120 lb drum	180 kg / 440 lb drum	AIR MOTOR DIAMETER	AIR PRESSURE OPERATING RANGE	MAX. FLUID DELIVERY	MAX. FLUID OUTLET PRESSURE
PUMP MASTER 3							
55:1	404100	407200	409200	75 mm – 3"	3 – 10 bar 45 – 140 psi	400 gr/min 0.9 lb/min	550 bar – 7.700 psi
PUMP MASTER 3+3							
60:1	402050	402000	402025	75 mm – 3"	3 – 10 bar 45 – 140 psi	1,200 gr/min 2.6 lb/min	600 bar – 8.400 psi
PUMP MASTER 6							
55:1	N/A	401000	401025	160 mm – (6.3")	3 – 10 bar 45 – 140 psi	3.000 gr/min 6.6 lb/min	550 bar – 7.700 psi

AIR OPERATED DOUBLE DIAPHRAGM PUMPS						
PART No.	WETTED PARTS	BALLS	DIAPHRAGMS	AIR PRESSURE OPERATING RANGE	MAX. FLUID DELIVERY	FLUIDS HANDLED
DF-50 METALLIC PUMPS						
552010	Aluminum	NBR	Hytrel	3 – 7 bar 45 – 140 psi	50 l/min 14 US gpm	LU, WO, WA
550211	Aluminum / Nickel	Acetal	Hytrel	3 – 7 bar 45 – 140 psi	50 l/min 14 US gpm	LU, WO, WA, WS
552015	Polypropylene	Polypropylene	Hytrel	3 – 7 bar 45 – 140 psi	50 l/min 14 US gpm	LU, WO, WA, WW
552016	Acetal	Acetal	Hytrel	3 – 7 bar 45 – 140 psi	50 l/min 14 US gpm	LU, WO, WA, WW, AD
DF-50 MIX PUMPS						
552021	Aluminum / Nickel	Acetal	Hytrel	3 – 7 bar 45 – 140 psi	50 l/min 14 US gpm	WA, WS
552026	Acetal	Acetal	Hytrel	3 – 7 bar 45 – 140 psi	50 l/min 14 US gpm	WA, WS
DF-100 METALLIC PUMPS						
551010	Aluminum	Hytrel	Hytrel	3 – 7 bar 45 – 140 psi	100 l/min 28 US gpm	LU, WO, WA

LU: Lubricants | WO: Waste oil | WA: water and antifreeze | WW: Wind shield wash | AD: AdBlue (DEF)

TECHNICAL SPECIFICATIONS AND PART NUMBERS

HOSE REELS							
	APPLICATION	501 SERIES	502 SERIES	504 SERIES	505 SERIES	506 SERIES	
LOW PRESSURE 20 bar 300 psi	AIR AND LOW PRESSURE WATER	501100 10 m (33') x 3/8"	502104 10 m (33') x 3/8"	504100 15 m (50') x 1/2"	505200 20 m (65') x 1/2"	506101 10 m (33') x 3/8"	
			504100 13 m (42')x3/8"			506121 15 m (50') x 3/8"	
	WIND SHIELD WASH FLUIDS	N/A	N/A	N/A	N/A	506122 15 m (50') x 1/2"	
						506602 10 m (33') x 3/8"	
						506622 15 m (50') x 3/8"	
MEDIUM PRESSURE 100 bar 1.450 psi	OIL, WATER, ANTIFREEZE	501200 10 m (33') x 1/2"	502204 10 m (33') x 1/2"	504200 15 m (50') x 1/2"	505200 20 m (65') x 1/2"	506202 10 m (33') x 1/2"	
			502201 13 m (42')x3/8"			505201 15 m (50') x 3/4"	506222 15 m (50') x 1/2"
		WASTE OIL SUCTION AND TRANSFER	N/A	N/A	N/A	505201 15 m (50') x 3/4"	506212 18 m (60') x 1/2"
		DIESEL	N/A	N/A	N/A	505201 15 m (50') x 3/4"	506503 6 m (20') x 5/8"
						N/A	
HIGH PRESSURE 170 bar 2.450 psi	COLD AND HOT WATER (150°C – 300°F)	N/A	502400 13 m (42') x 3/8"	504400 15 m (50') x 3/8"	N/A	506421 15 m (50') x 3/8"	
HIGH PRESSURE 350 bar 5.000 psi (1/4") 280 bar 4.000 psi (3/8")	GREASE	501300 10 m x 1/4"	502304 10 m (33') x 1/4"	504300 15 m (50') x 1/4"	N/A	506300 10 m (33') x 1/4"	
			502301 13 m (42') x 1/4"			504301 15 m (50') x 3/8"	506301 10 m (33') x 3/8"
							506321 15 m (50') x 3/8"
							506311 18 m (60') x 3/8"

PUMP MASTER 3 / 55:1 PRESSURE RATIO GREASE PUMP MOBILE AND PORTABLE PACKAGES							
APPLICATION	PART NUMBER	PUMP	CONTROL GUN	HOSE	COVER	TROLLEY	OPTIONAL FOLLOWER
12,5 – 18 kg pail	424170	404100	413080	2 m x 1/4" (412102)	Ø 310 mm (418013)	-	417001 (18 kg pail)
	424150	404100	413080	2 m x 1/4" (412102)	Ø 310 mm (418013)	430000	417001 (18 kg pail)
20 kg pail	424172	404100	413080	2 m x 1/4" (412102)	Ø 330 mm (418002)	-	417005
	424152	404100	413080	2 m x 1/4" (412102)	Ø 330 mm (418002)	430000	417005 (narrow drum)
50 kg drum	425150	407200	413080	3 m x 1/4" (412103)	Ø 405 mm (418004)	431000	417002 (narrow drum)
							417003 (wide drum)
185 kg	428243	409200	413080	4 m x 1/4" (412104)	Ø 610 mm (418006)	432000	417004 (included)

TECHNICAL SPECIFICATIONS AND PART NUMBERS

PUMP MASTER 2 - 1:1 AND 3:1 PRESSURE RATIO OIL PUMP PACKAGES FOR 220 L DRUMS					
PUMP TYPE	PART NUMBER	PUMP	CONTROL GUN	HOSE	TROLLEY
PumpMarter 2/1:1 ratio	454002	352120	High delivery Nozzle 361000	3 m x 3/4" (362303)	-
	454003	352120	Standard 363078	3 m x 1/2" (362103)	-
PumpMarter 2/3:1 ratio	454110	354120	Metered 365603	3 m x 1/2" (362103)	-
	454300	354120	Metered 365603	3 m x 1/2" (362103)	432000
	454605	354120	Metered 365603	Single arm reel 10 m x 1/2" (506202)	-

CONTROL GUNS AND HOSE END METERS	
PART NUMBER	DESCRIPTION
OIL- UNMETERED	
363078	Standard oil gun. Includes inlet swivel and semiautomatic non-drip tip.
363051	High delivery oil gun. Includes inlet swivel and semiautomatic non-drip tip.
OIL – METERED	
365603	Hose end meter for oil with digital electronic display. Includes inlet swivel and non-drip tip.
365853	Hose end meter for oil with mechanical register. Includes inlet swivel and non-drip tip.
GREASE - UNMETERED	
413077	Grease control gun. Includes rigid outlet and hydraulic connector.
413080	Grease control gun. Includes inlet "Z" swivel and rigid outlet with hydraulic connector.
GREASE – METERED	
415002	Hose end meter for grease. Includes inlet "Z" swivel, 400 mm outlet hose with hydraulic connector.

MISCELLANEOUS PRODUCTS	
PART NUMBER	DESCRIPTION
GREASE	
101200	Lever action grease gun, 500 cc with rigid outlet and hydraulic connector.
168600	Air operated hand held grease pump, 500 cc with 400 mm outlet hose and hydraulic connector.
167500	Air operated hand held grease pump, 1000 cc with 400 mm outlet hose and hydraulic connector.
160000	18 V battery operated grease gun with 750 mm outlet hose and hydraulic connector.
150000	16 kg grease bucket pump, 350 bar maximum pressure and 20 gr per stroke maximum delivery with 1.5 m grease hose and hydraulic connector.
OIL	
605000	High performance lever action pump with telescopic suction tube for 50 to 220 l drum.
304500	Lever action transfer pump with telescopic suction tube for 50 to 220 l drum.
302400	16 l oil bucket pump with 1.5 m delivery hose with shut-off valve and nozzle.



Pump room with PumpMaster 4 pumps.

MINING AND CONSTRUCTION

Service fluids handling and inventory management systems for:
Above and underground vehicle maintenance facilities
Construction equipment maintenance centres.
Remote service centres: lube and service trucks.

FLUIDS HANDLED

Mineral and synthetic based motor oil, gear oil, hydraulic oil, etc.
Grease
Transmission fluid
Coolant and antifreeze solutions
Low and high pressure water
Diesel
AdBlue (DEF)
Compressed air



Lube truck, 504 and 505 Series hose reel , PM4 oil pumps and PM3+3 grease pumps.



Lube truck, 502 Series hose reel , PM4 oil pumps and PM3+3 grease pumps.



Service area with 504 series hose reels.

PRODUCTS USED

Air operated piston pumps for oil and grease.

Diaphragm pumps for antifreeze, coolant and windshield wash solutions, AdBlue (DEF) and waste oil transfer and evacuation.

Electric pumps for oil and diesel.

Hose reels.

Hose end meters, delivery guns and high pressure greasing guns.

Fluid and inventory management systems.

Mobile and stationary equipment for waste oil collection.

Service accessories (hand pumps, bucket pumps, measures, shop furniture, etc.).



Lube truck, PM4 oil pumps.

Field service unite, 502 and 505 series hose reel, PumpMaster 2 pumps.

Lube truck, PumpMaster 4 pumps and 504, 505 Series hose reels.

SAMOA INDUSTRIAL, S.A.

SPAIN AND EXPORT MARKETS
BOX 103
POL. IND. PORCEYO, I-14-CAMINO DEL FONTÁN, 831
E-33392 GIJÓN (ASTURIAS) SPAIN
TEL.: +34 985 381 488
FAX: + 34 985 147 213
e-mail: export@samoaindustrial.com
<http://www.samoaindustrial.com>

SAMSON CORPORATION

NORTH AMERICA
ONE SAMSON WAY
SWANNANOVA, NC 28778
PH.: (828) 686 8511
FAX: (828) 686 8533
e-mail: info@samsoncorporation.com

SAMOA LTD. - U.K.

UNITED KINGDOM AND REP. OF IRELAND
ASTURIAS HOUSE - BARRS FOLD ROAD
WINGATES INDUSTRIAL PARK
WESTHOUGHTON, BL5 3XP
PH.: (01942) 85 06 00
FAX: (01942) 81 21 60
e-mail: sales@samoaltd.uk

SAMOA S.Á.R.L.

FRANCE
4, RUE DE ZELLENBERG
67600 SELESTAT
PH. : 03 88 82 79 62
FAX: 03 88 82 77 88
e-mail: samoafrance@samoafrance.com

SAMOA-HALLBAUER GMBH

GERMANY AND AUSTRIA
INDUSTRIESTRASSE, 18
D-68549 VIERNHEIM
PH.: (06204) 7095-0
FAX: (06204) 7095-33
e-mail: info@samoahallbauer.de

SAMOA CHINA SALES OFFICE

ROOM 2004, BUILDING NO.1, TIAN BAO TOWER
775 SI PING ROAD, SHANGHAI 200092
PH.: +86 21-55150064/55150364
FAX: +86 21-55150364-806
e-mail: china@samoaindustrial.com

©COPYRIGHT, SAMOA INDUSTRIAL S.A., 2010

SAMOA INDUSTRIAL, S.A. IS A ISO 9001, ISO 14001
AND OSHAS 18001 CERTIFIED COMPANY

