

MADE IN
manuli

fluiconnecto[®]
— by *manuli*[®] —

www.fluiconnecto.com



the manufacturer
at your doorstep



WE KEEP IT RUNNING



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WE KEEP IT RUNNING

If everyone is moving forward together,
then success takes care of itself.

~Henry Ford

OUR MISSION

A background image showing a technician in a workshop. The technician is wearing safety glasses and a dark shirt, working on a large, complex industrial machine. An orange text box is overlaid on the right side of the image, containing a quote. Another orange text box is overlaid on the bottom right, containing another quote. A vertical line with circles at both ends is positioned between the two text boxes.

“

Fluiconnecto by Manuli is a leading international service organization, focused on high pressure fluid connectors, providing products and application knowledge, as well as maintenance services, from OEM to end-users in all market segments, through a global network tailored to local conditions.

Fluiconnecto's services are made available at the customer's doorstep in 5 continents, through a network of OEM Assembly Plants, Hydroshops, On-site Workshops and Service On-site Vans.

“

FLUICONNECTO IN BRIEF



over
2000
Employees



over
200
Hydroshops



over
185
on-site Workshops



over
195
service on-site Vans



present on
5
continents

INTERNATIONAL PRESENCE



France



Belgium



Netherlands

over 200 
HYDROSHOPS

over 185 
ON-SITE
WORKSHOPS

over 195 
SERVICE
ON-SITE VANS



DOWNLOAD FLUICONNECTO STORE LOCATOR APP

The app allows you to easily locate our Hydrosshops worldwide. It is also a handy tool for keeping up-to-date with news from our company.

Available for Android or Apple devices.



Mali



Colombia



Peru



Senegal



Guinea



Sierra Leone



Argentina



Burkina Faso



Ivory Coast



Finland



Poland



Lithuania



Czech Rep.



Qatar



United Arab Emirates



Oman



Singapore



Australia



New Zealand



Ghana



South Africa



Botswana



Zambia



D.R. Congo



Mozambique



Tanzania



the manufacturer
at your doorstep

OUR ROOTS



World Class Manufacturing and Distribution

Manuli Rubber Industries (established in 1935) is a multinational corporation with three distinct global organizations:

- MANULI HYDRAULICS
- FLUICONNECTO by MANULI
- RYCO



Group structure



- R&D
- design
- manufacturing

www.manuli-hydraulics.com



- the service company in the hydraulic connectors market
- close to customers
- 24/7 service
- maintenance services
- technical support
- sales to global OEMs

www.fluiconnecto.com



- design
- manufacturing
- technical services provider
- 24/7 service
- technical support

www.ryco.com.au

MANULI RUBBER INDUSTRIES

Manuli Rubber Industries

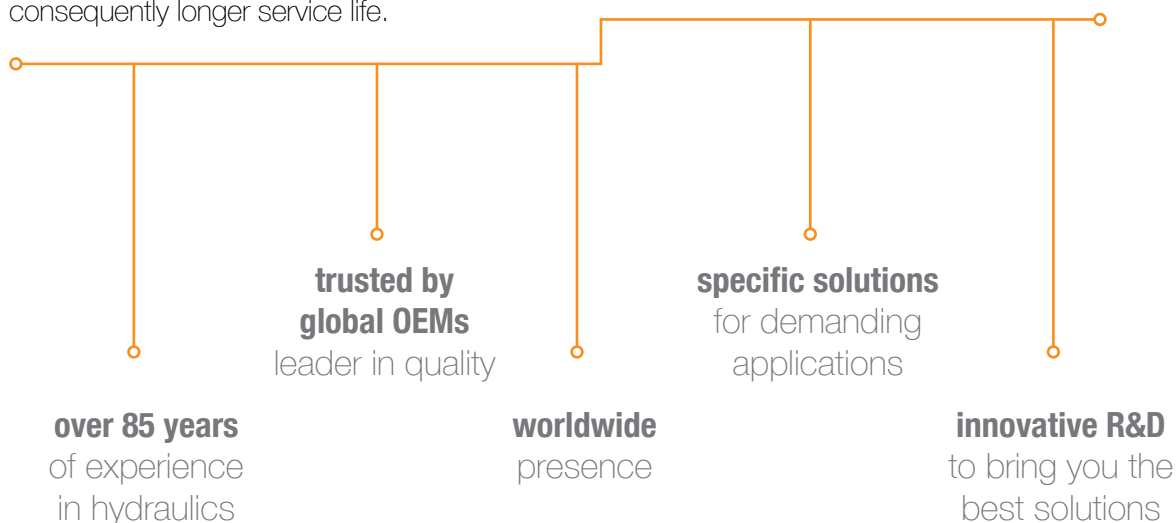
Fluiconnecto is a part of the **Manuli Rubber Industries** group, which includes Manuli Hydraulics: a leading international manufacturer of hydraulic hoses and connectors.

With over **85 years of experience**, Manuli Hydraulics is at the forefront of technology with its R&D departments located in Italy, Poland, France, UK, China and India.

www.manulirubber.com

We bring the manufacturer to your doorstep

Fluiconnecto offers the full range of Manuli Hydraulics products developed specifically for severe hydraulic applications. Manuli Hydraulics' products deliver increased reliability and consequently longer service life.



HOW WE SERVE YOU



Service on-site Van

always available at customers' premises 24/7

Hydroshop



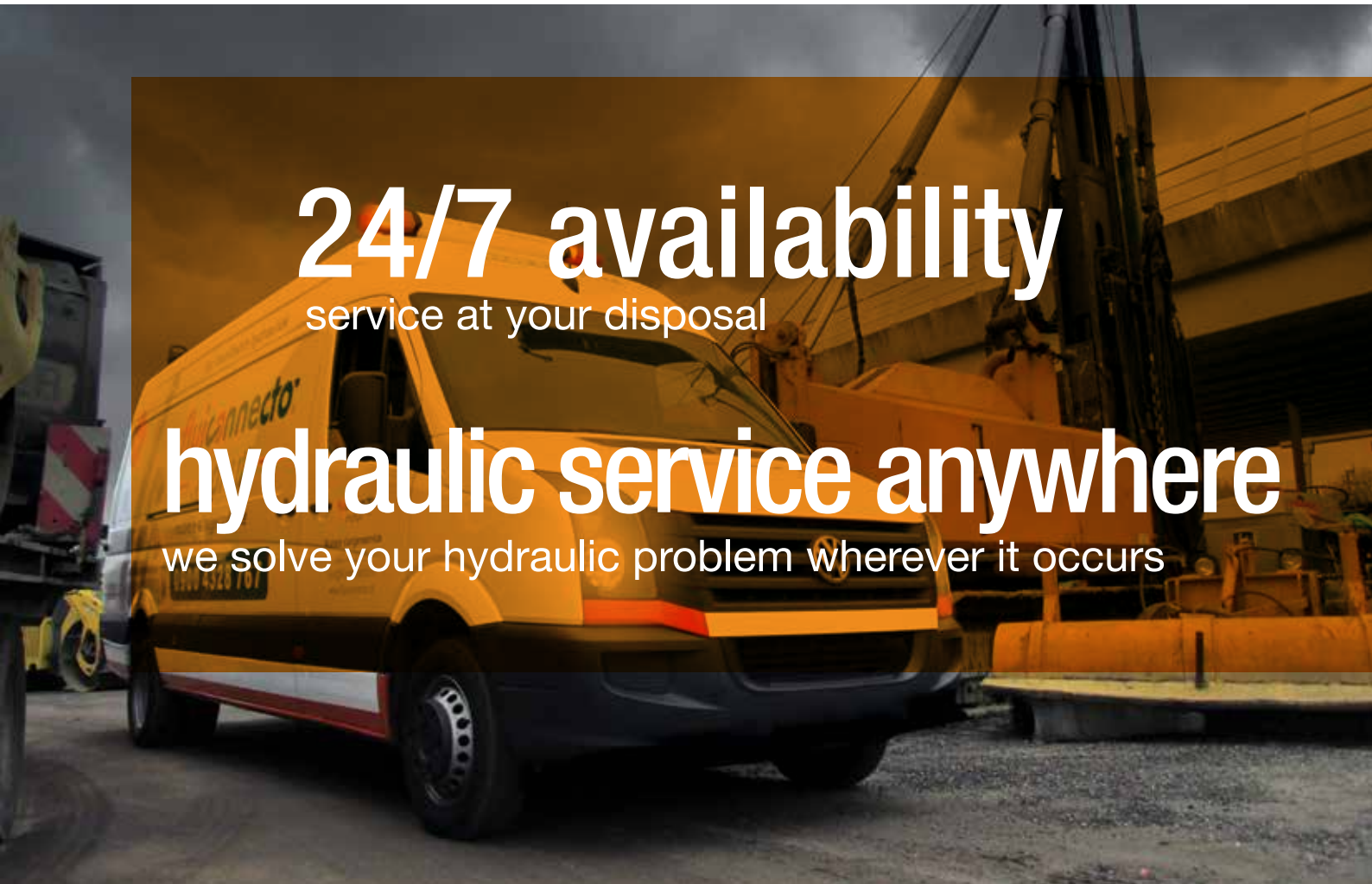
open to public with counter to place & collect orders

On-site Workshop

for demanding conditions that require technicians
always on call

SERVICE ON-SITE VAN

MOBILE HYDRAULIC SERVICES 24/7



24/7 availability

service at your disposal

hydraulic service anywhere

we solve your hydraulic problem wherever it occurs

Service on-site Van description

Our service on-site vans are fully equipped mobile workshops that will solve your hydraulic problems wherever and whenever they occur. Fully qualified and competent engineers at your service.

Service on-site Van offers 24/7 availability for:

- hydraulic hoses manufactured on site
- installation services on new equipment (mobile and static)
- high pressure hydraulic line services: tube bending, oil filtration, pressure checks, oil replacement, filter replacement
- prototyping, technical advice & project support

HYDROSHOP

YOUR LOCAL HYDRAULIC SERVICE PROVIDER



Hydroshop description

Hydroshops are open to the public for you to place and collect orders. Each Hydroshop is equipped with its own hose assembly workshop, an additional service area and a warehouse that stocks thousands of hydraulic parts to guarantee a fast and efficient service.

Hydroshops can offer a wide range of professional services from hose assembly to maintenance of hydraulic lines in manufacturing companies.

In our Hydroshops, always expect your technical problem to be solved in a fast and professional way.

What to expect from Fluiconnecto by Manuli Hydrosops:

- trade counter supported by a hose assembly workshop
- open to the public to place and collect orders
- specialised products & services covering high pressure hydraulic connections and other industrial applications
- located always close to you
- ever growing network
- professional advisory service
- qualified technicians
- on-site warehouse stocking thousands of parts
- uncommon products available for order or custom made
- wide range of services

Your benefits:

Save time:

- ordering via phone, email or fax
- through longer service life of our products
- by having our products delivered at your doorstep
- by using our mobile services
- by working with a comprehensive supplier
- by ordering faster with FLC tagged hoses

Save money:

- by reducing downtime
- through longer service life of our products
- by reducing your inventory

ON-SITE WORKSHOP

HYDRAULIC SUPPORT MADE CLOSER



**flexible service,
fast setup**

24/7 hydraulic services available at your location

tailored product offer

have the products you require stocked
for your convenience

On-site Workshop description

Our On-site Workshops are flexible workshop solutions that offer the same level of service and product quality as a Hydroshop, with the advantage of a team of technicians and inventory tailored to your needs. With our On-site Workshops, you can have replacement hydraulic hose assemblies manufactured in remote locations e.g. at your minesite.

On-site Workshops have a fully equipped hose assembly workshop, an additional service area and a warehouse that stocks specifically the hydraulic components you require.

On-site Workshops can offer a wide range of professional services that range from hose crimping to preventive maintenance services of hydraulic lines.

What to expect from Fluiconnecto by Manuli On-site Workshops:

- fully equipped On-site Workshop that stocks customer specific products
- hydraulic service area with professional assembly equipment
- specialised products & services covering high pressure hydraulic connections and other industrial applications
- fast setup at your location
- flexibility of service contract
- professional advisory
- qualified & certified technicians
- uncommon products available for order or custom made
- wide range of services

Your benefits:

Save time:

- with 24/7 service availability
- by having a Fluiconnecto Workshop delivered just-in-time
- by working with a full range supplier
- by ordering faster with FLC tagged hoses

Save money:

- by reducing downtime
- through longer service life of our products
- and time by using our advanced “preventive maintenance” service - flui-ID
- by closely monitoring hose failures and monthly KPI's
- by eliminating your spare parts stock

REFERENCES & MARKETS



Sheer number
of over **2000** standard products on offer

Certificates
for any industry requirement

References

- | | | | | |
|-----------------------|--------------|------------------|----------------|----------------|
| ■ Soletanche Bachy | ■ DAF | ■ Keller | ■ Kverneland | ■ Cap Alliance |
| ■ QM equipment | ■ ZF | ■ Groeneveld | ■ Group | ■ Socodior |
| ■ Doedijns Group Int. | ■ Mammoet | ■ Techint | ■ Bennes Maupu | ■ Mc Hale |
| ■ Dieseko Group | ■ Nexteer | ■ Indumix | ■ Simon | ■ Ursus |
| ■ Stork | ■ VDL | ■ TLD | ■ Souchu Pinet | ■ Sipma |
| ■ Terberg Machines | ■ Volvo | ■ Foundation | ■ Sodimac | ■ Noremat |
| ■ Veolia | ■ Loxam | ■ Associates Pte | ■ Promodis | ■ Matt Com |
| ■ Auto Distribution | ■ Exel | ■ John Deere | ■ Jeantil | ■ Diebolt |
| ■ Manitou | ■ Group Auto | ■ Preciculture | ■ Brochard | ■ Sogedep |
| ■ Bosch Rexroth | ■ Woma | ■ Quivogne | ■ Delta Force | ■ Ponsse |

MARINE

Certificates
for marine applications

OEM approved
by top shipbuilders

References

- | | | |
|------------------------|----------------------------|------------------------|
| ■ DCNS | ■ Hidrovias | ■ COSCO Shipping |
| ■ DAMEN | ■ Jan De Nul | ■ Corporation Limited |
| ■ Garant Supply UAB | ■ Hyundai Heavy | ■ CSSC-China State |
| ■ Elmelit UAB | ■ Industries Co. Ltd. | ■ Shipping Corporation |
| ■ DRYDOCKS WORLD-DUBAI | ■ PT. Lautan Lestari Niaga | ■ Huisman |
| ■ Oman Ship Management | ■ PT DOK | ■ Heesen Yachts |
| ■ Company | ■ Wasa Dredging | ■ Amels |
| ■ ALE Heavylift | ■ Sunreef-Yachts | ■ SMST |
| | | ■ Watermaster |



+ Performance

products that exceed the requirements of international specifications

Less failures

with +Performance products

Quality products

designed, tested and manufactured for the toughest conditions

References

- | | | |
|--------------------------|--------------------|-------------------------|
| ■ Barrick Gold | ■ Exxaro | ■ Sandvik |
| ■ First Quantum Minerals | ■ Rio Tinto Mining | ■ Vale Exploration Peru |
| ■ Acacia Mining | ■ Glencore Xstrata | ■ Minera Rio Negro |
| ■ Anglo American Coal | ■ Gold Fields | ■ Silver Standard |
| ■ Aquarius Platinum | ■ Murray & Roberts | ■ Shougang Hierro Perú |
| ■ Anglo Gold Ashanti | ■ Joy Global | ■ Metso Minerals |
| ■ BHP Billiton | ■ Amara Mining | ■ Randgold |
| ■ Caledon Resources | ■ Newmont | ■ Nordgold |
| ■ De Beers | ■ Bucyrus | |



Specialised services

'Around the clock' asset management, breakdown, repair and maintenance services

API-7K

Comprehensive range of Drilling hoses

API-16D

BOP hoses

References

- | | | | |
|---------------------|-------------------|----------------------------|-----------------------------|
| ■ Halliburton | ■ Ensco | ■ YPF | ■ PPL Shipyard |
| ■ Schlumberger | ■ Maersk Drilling | ■ Frigstad | ■ Sparrow Offshore |
| ■ Huisman | ■ Smit | ■ Bumarmada | ■ Petreven |
| ■ Jurong Shipyard | ■ Weatherford | ■ Pergemine | ■ Aban |
| ■ Aker Solutions | ■ Drillmec | ■ Triumph Drilling | ■ Honghua Offshore |
| ■ Leighton Offshore | ■ Tatneft | ■ Remote Oilfield Services | ■ Vantage Drilling Company |
| ■ Lukoil | ■ PetroVietnam | ■ Surgutneftegas | ■ Savanna Drilling |
| ■ Keppel | ■ Sembcorp Marine | ■ Beaver | ■ FDS Desing Solutions Inc. |
| ■ Seadrill | ■ Noble | ■ Frank's International | |

WHY FLUICONNECTO





MANULI INTEGRATED SYSTEM

Designed with increased performance & safety focus

A high pressure connection system designed and manufactured fully in house.

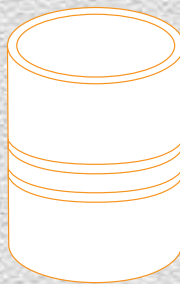
Purchase the original Manuli parts from Fluiconnecto

www.fluiconnecto.com



INSERTS

- high quality carbon & stainless steel
- micro and macro grooves
- unique sealing groove
- swivel Rotofit fittings
- high pressure non skive Spiralfit fittings



FERRULES

- solid piece design
- ferrule grooves are specifically drawn to match the corresponding insert grooves
- verified compression during crimping
- standard & skived solution for high pressure

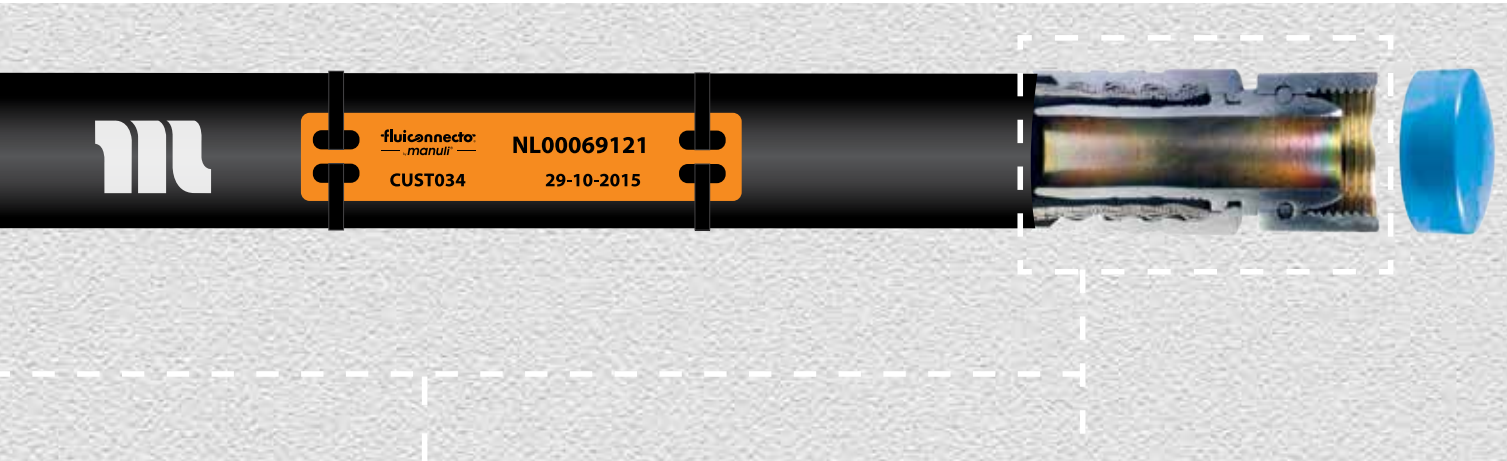


HYDRAULIC HOSES

- wide range for all applications
- standard or skived solution
- low to ultra high pressures
- manufactured in own facilities
- tested to meet major international specifications

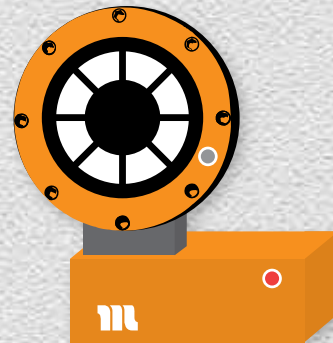


Manuli Integrated System guarantees highest performance & safety



MANULI CRIMPING PARAMETERS CHART

Material	Wire Diameter (mm)	Hose ID (mm)	Ferrule ID (mm)	Ferrule Length (mm)	Crushing Force (kN)	Crushing Distance (mm)
304 Stainless Steel	1.6	16.1	17.5	15.4	17.4	17.5
	2.0	16.1	17.5	15.4	17.4	17.5
	2.5	16.1	17.5	15.4	17.4	17.5
	3.0	16.1	17.5	15.4	17.4	17.5
316 Stainless Steel	1.6	16.1	17.5	15.4	17.4	17.5
	2.0	16.1	17.5	15.4	17.4	17.5
	2.5	16.1	17.5	15.4	17.4	17.5
	3.0	16.1	17.5	15.4	17.4	17.5
Aluminum	1.6	16.1	17.5	15.4	17.4	17.5
	2.0	16.1	17.5	15.4	17.4	17.5
	2.5	16.1	17.5	15.4	17.4	17.5
	3.0	16.1	17.5	15.4	17.4	17.5



CRIMPING PARAMETERS

- one integrated crimping booklet
- precisely selected crimping diameters
- based on: steel hardness, ferrule compression, hose reinforcement type, hose wall thickness, dies profile in the crimping machines

CRIMPING MACHINE

- specialised product lines for OEM, workshop, mobile VAN
- dies profiled specifically for Manuli ferrules
- precise calibration
- crimping repeatability
- manual & automatic operation

Achieve longer service life with Manuli's Integrated System

All elements of Manuli's Integrated System work together to exceed the international requirements, offering a more robust and durable assembly.

PRODUCTS

HIGH PRESSURE HOSES & CONNECTIONS

High pressure hydraulic HOSES

- **product groups** for demanding applications e.g. FORESTY / MINING / OIL&GAS
- sizes up to 4"
- multispiral & textile reinforcements
- rubber, thermoplastic & teflon designs
- **Manuli Integrated System:**
hose + inserts + ferrules + crimping parametres
+ crimping machines
- **XXL hose** + fittings integrated range for big flow rates

Hydraulic high pressure CONNECTORS & ADAPTORS

- coverage of the whole hose range **up to 4"**
- zinc plated for corrosion protection
- metric, inch, RD, right & left threads
- part of **Manuli Integrated System**
- ferrules made from one piece steel rod
- innovative Rotofit **swivel connections**
- adaptors
- rigid pipes carbon & stainless steel
- pipe DIN 2353 adaptors



PRODUCTS

REFRIGERATION & WATER CLEANING

Mobile REFRIGERATION

- hoses & connectors used in mobile air conditioning and refrigeration systems
- rubber hoses in textile or steel reinforcement
- compatible with the newest refrigerants
- 3 connection types for OEM and service applications
- rigid connections bent to customer specification
- filters, dryers, tools thermal sleeves and other accessories

Refri ACCESSORIES

- hose cutters
- clamp tools
- filters & dryers
- insulation sleeves



PRODUCTS FOR MINING

UNDERGROUND & OPEN PIT

MADE IN
manuli

High pressure hydraulic HOSES

- **ROCKMASTER, DIAMONDSPIR, XTRAFLOW**
- specific mining hoses for improved performance and reduced downtime
- superior abrasion resistance - lasts longer in demanding applications
- flame resistance - approved and internationally certified
- higher temperature resistance - up to 121°C for all wire spiralled range
- sizes up to 3" available in wire braid and wire spiral
- working pressure up to 690 bar
- high environmental resistance

STAPLE-LOCK CONNECTORS & ADAPTORS

- male staple ends from DN06 (1/4") up to DN76 (3") conforming to DIN 20043 / NCB638 / BS6537 / SAE J1467.
- 90 / 135 degree staple hose inserts and stainless steel inserts are available on request
- high performance male staple ends from DN12 (1/2") up to DN63 (2.1/2") and Flushfit male and female staple hose inserts for both standard and high performance application from sizes DN40 (1.1/2") up to DN76 (3")

PRODUCTS FOR OIL&GAS

ONSHORE & OFFSHORE DRILLING

High pressure HOSES

- rotary & vibrator hose
- cement hose
- grease injection hose
- blow-out preventer hose
- choke & kill hose
- motion compensator hose
- bulk material transfer hose

High pressure DRILLING HOSE CONNECTORS

- interlock crimped fittings with welded termination ends:
 - Hammer Union
 - API Flange
 - ASME Flange
 - API Hub
 - Male Fitting
 - ISO 6164 Flange



Drilling QUICK COUPLINGS & ACCESSORIES

- Manuli Q-Safe BOP quick connect couplings
- Manuli Q-Safe Flat Face quick connect couplings



PRODUCTS

HOSE ACCESSORIES



Hose PROTECTIONS & SAFETY

- special sleeves that protect the operator from oil injection in case of hose assembly failure
- plastic spirals that protect hoses from abrasion and external damage
- safety chain or cable that holds the hose in place and protects the operator in case of hose fitting blow out
- special antistatic and flame resistant covers that protect hoses from fire and external temperature



Hose ACCESSORIES

- enable a safe installation of flexible & rigid connections on machines
- straps, clamps, safety loops and other equipment



PRODUCTS

QUICK COUPLINGS

Hydraulic high pressure QUICK CONNECT COUPLINGS

- over 25 product families within **Q.Safe** range from Manuli Hydraulics
- standard designs: **ISO A, ISO B, Flat Face, Screw**
- zinc plated Cr3+
- reinforced internal elements for increased durability
- all products 100% leak tested
- products designed for: agriculture, construction, forestry, manufacturing industry, drilling and transport
- optional special seals available to suit the medium

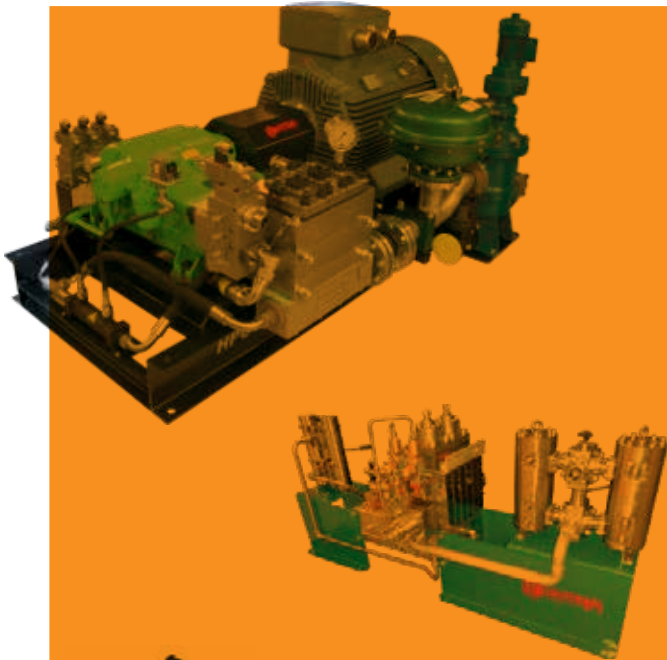
Low pressure QUICK COUPLINGS

- for industrial manufacturing e.g. injection mould cooling systems
- and other industrial applications



PRODUCTS

WATER HYDRAULIC SYSTEMS



Water HYDRAULICS

- pumps and motors
- valves
- cylinders
- teflon hose assemblies and other hose assemblies
- accumulators, pulsation dampers
- filters and other accessories
- stainless steel fittings
- special components

Water FOGGING & MISTING

- systems and pump units for high pressure water mist applications



High pressure WATER JET CLEANING

- rubber & thermoplastic hoses
- fittings, connections, lances & accessories
- hot & cold water pressure washers



High pressure HYDROSTATIC PRESSURE TESTING

- design & manufacturing of systems and components for hydrostatic pressure testing & hydroforming up to 4000 bar

High pressure WATER JET CUTTING

- hoses & fittings up to 1450bar
- Blastlock high pressure fitting system developed for extreme pressures

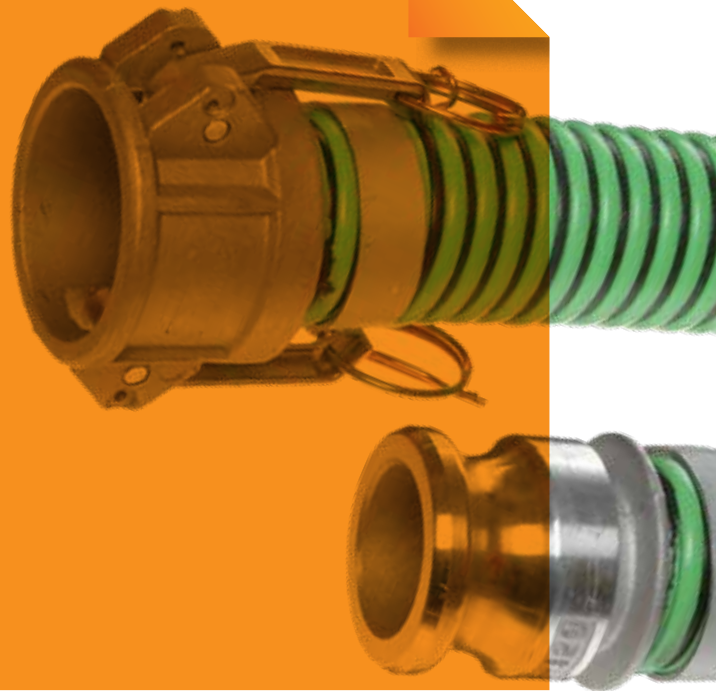


PRODUCTS

INDUSTRIAL HOSES & CONNECTIONS

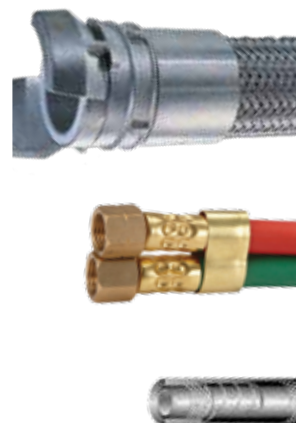
Industrial HOSES & CONNECTORS

- used for **low pressure transfer** of liquids, abrasive solids, steam and other materials
- available in a variety of designs made of: rubber, teflon, polyurethane (PUR), PVC, santoprene, fiberglass metal and many other
- **products designed for:** air & cold water, hot water, waste, food industry, chemicals, oils, petroleum based liquids, ventilation, gases
- variety of ready solutions for all industries



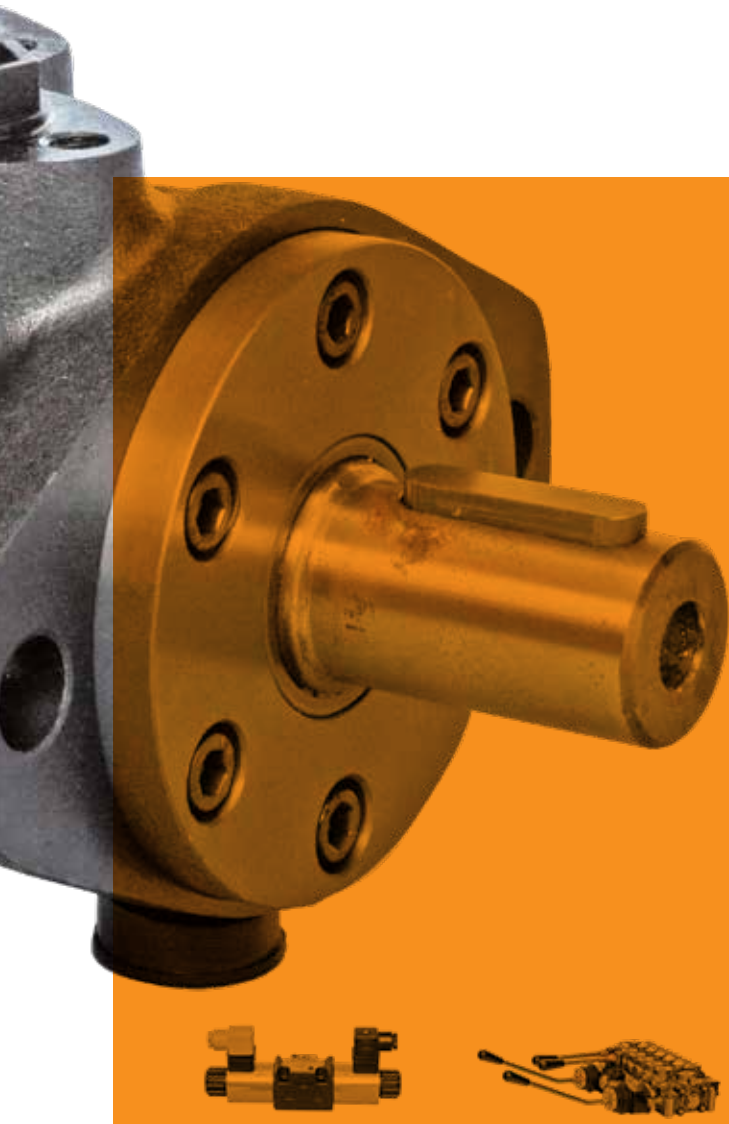
Low pressure transfer CONNECTORS

- **GEKA, STORZ, CAM-LOCK** and other industrial connections
- available in zinc plated steel, brass or stainless steel
- adaptors, connectors, clamps, reductions and many other



PRODUCTS

HIGH PRESSURE HYDRAULIC COMPONENTS



Hydraulic PUMPS & MOTORS

- gear, vane, piston pumps and wheel drive motors
- for **mobile & industrial** machines
- only **high class products**: Rexroth, Casappa, Vickers, Galtech, Caproni Kawasaki, Eckerle, Sauer Danfoss, M+S
- **technical support in choosing the most suitable solution**
- cylinder overhauls, pump repairs

Hydraulic VALVES & ELECTROVALVES

- for **mobile & industrial** machines
- cartridge, throttle, check, ball valves and many other
- only **high class suppliers**: Galtech, Hydro Control, Comatrol, Hydra Force, Argo-Hytos, Vickers, Atos, Fluid Press, Duplomatic, Rexroth, Oleodinamica Marchesini

Hydraulic CYLINDERS

- standard & custom made



Hydraulic HYDROACCUMULATORS



Oil COOLERS



PRODUCTS

PNEUMATICS

Air PREPARATION

- air compressors
- air preparation and air conditioning units
- reservoirs
- thermoplastic & aluminium pipes for air supply lines

Pneumatic HOSES

- made of: **PVC, polyurethane, polyamide, thermoplastic and rubber**
- spiral and straight from a roll

Pneumatic CONNECTIONS

- push-in fittings
- brass & stainless steel quick couplings
- adapters, distributors

Industrial PNEUMATICS

- pistons & cylinders
- valves & electrovalves
- pressure regulators
- sensors

ACCESSORIES

- manometres
- air guns



PRODUCTS

CENTRAL LUBRICATION & FUELLING



Central LUBRICATION SYSTEMS

- central lubrication systems for mobile and industrial applications
- pumps
- distributors & connectors
- sensors, nozzles, feeders
- polyamide & thermoplastic hoses

Fuel DISTRIBUTION FOR MINING

- dispensing and refuelling systems
- fuel management systems



Fluid TRANSFER

- for a variety of fluids, including hydraulic and engine oils
- suitable for garages and car service stations
- special solutions for printers (ink transfer) and other industries



PRODUCTS

FILTRATION & FLUID CONDITIONING

Hydraulic FILTERS & CARTRIDGES

- for mobile & industrial machines
- suction, pressure & return lines
- for low & high pressure
- for: **oil, diesel, gasoline, air, cabin, LPG**



Oil INDICATORS & SENSORS

- electrical & optical
- for pressure, temperature and flow



Mobile FILTERING UNITS

- enable filtering directly from tanks and reservoirs
- used for decontaminating oil by removing suspended particles
- compact dimensions



PRODUCTS

FIRE SUPPRESSION SYSTEMS



On-Site Fire Protection Solutions

SERVICES:

- Maintenance: Mandatory Scheduled
- Services, and Repairs.
- Design, Install & Commission of Fire
- Suppression Systems.
- Recharge & Upgrade of Fire
- Suppression Systems.
- Fire Investigations.
- Reporting of key performance
- indicators on preventative
- maintenance.
- And more!



SOLUTIONS:

- Vehicle Fire Suppression
- Gaseous Fire Suppression
- Fire-Fighting Units
- Fixed Foam Fire Suppression
- Kitchen Fire Suppression

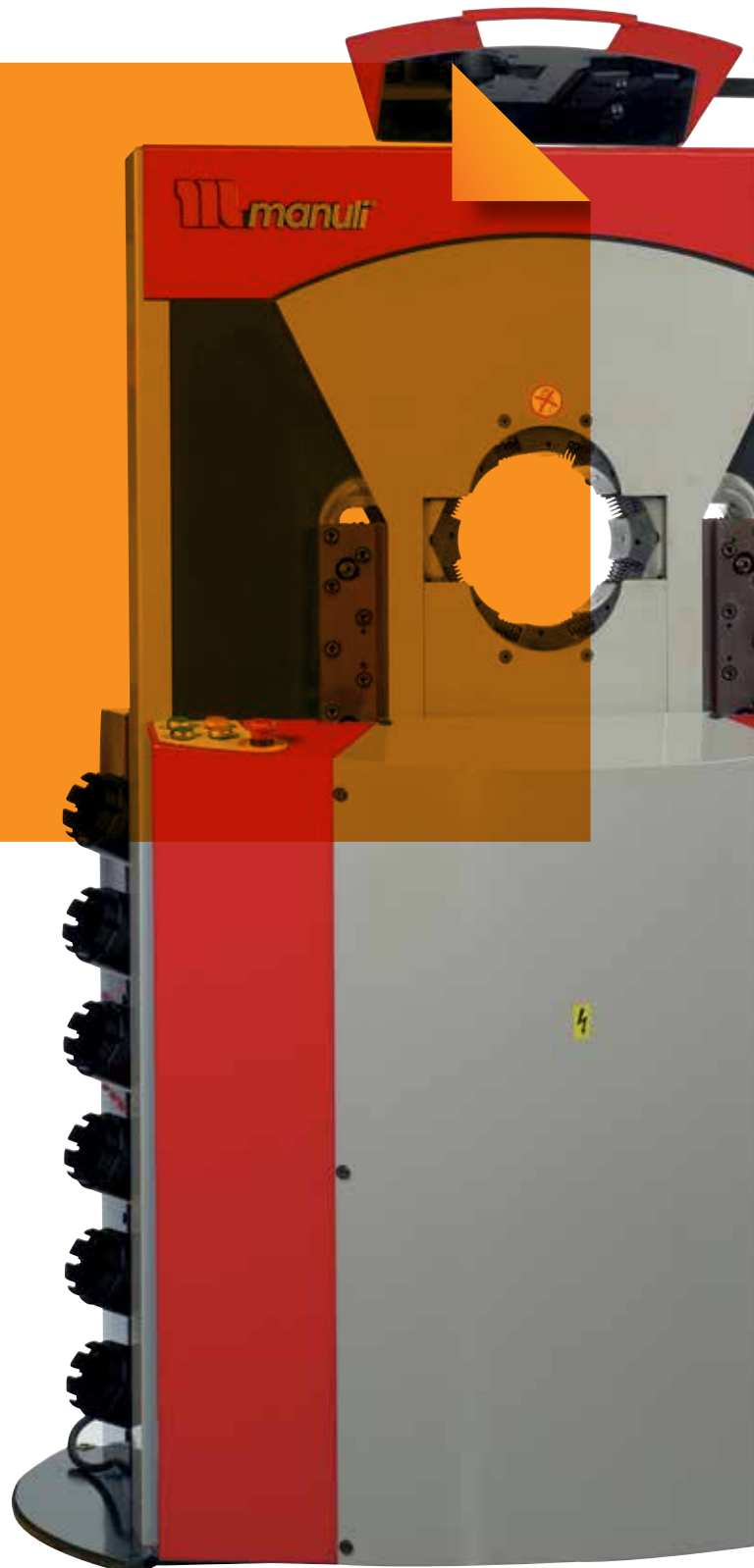


PRODUCTS

ASSEMBLY EQUIPMENT

Assembly equipment by MANULI HYDRAULICS

- complete range of machines for **OEM, workshop and field service applications**
- crimpers ranging from small hand operated to production large bore machines with 8" crimping capability
- cutting machines
- skiving machines
- insert pushing machines
- marking machines
- pressure test machines



PROFESSIONAL SERVICES

WHEN & WHERE YOU NEED IT



Hose crimping



Maintenance services 24/7

flui-ID

flui-ID Hose Management Program



Hose marking with individual codes



Tube bending



Oil filtration & flushing



Customized fittings



Installation



Door-to-door delivery



Vendor managed inventory



Training & Technical support



Hose cleaning



Pressure testing, flushing & certification



Hydraulic circuit design



Cylinder overhauls



Pump repairs



Pin-pricking for vapour applications



Kitting



24/7 availability



Power pack repair



Hydraulic component repair & refurbishment

HOSE MANAGEMENT PROGRAM

SERVICES THAT MAXIMISE UPTIME

flui-ID

flui-ID Hose Management Program

flui-ID is a **management program** that goes beyond inspection activities.

It is a maintenance strategy that utilizes:

- **planned inspections** - certified inspectors ensure your hoses are working properly
- **hose tagging** - to assess and collect information for BOM, working conditions of each assembly as well as trace location
- **risk based matrix** - to assess a hose failure impact on vital operations and to define risk mitigation strategies

The evaluation of these factors enables our technicians to draw a maintenance plan that will allow you to forecast the maintenance budget and replace your hose assemblies before a failure occurs, thus **reducing your machine's downtime**.

Our online flui-ID database contains all relevant information about your hose assemblies together with reports, BOM and maintenance plan.



**Certified
technicians**



**Hose
inspections**



**Hose
tagging**



**Scheduled
maintenance**



**Alerting
system**



Traceability



MORE INFO
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WE KEEP IT RUNNING