



Wind Energy

Fluiconnecto Hydraulic Services

fluiconnecto[®]
— by *manuli*[®] —

our mission

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

Fluiconnecto's services are made available at the customer's doorstep on 5 continents, through an ever-growing network of Hydroshops, on-site Workshops and Service on-site Vans.

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 80 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.



wind power: synonymous of environmental impact revolution

Energy generated through wind power is cleaner, cheaper and more sustainable than most fuel sources

Through our collaboration with products, services, knowledge and experience, we support you in every step of your operations, accomplishing:

- ✓ Less environmental impact
- ✓ Solid economic benefits
- ✓ Employment of renewable resources
- ✓ Increasing awareness of clean and sustainable sources of energy
- ✓ Depletion in the use of natural resources as an alternative to other non-renewable sources of energy.

In order to keep up with the great job, your wind turbines cannot stop!



the importance of your wind turbines' hydraulic assemblies

Incidents caused by malfunctions in your hydraulic assemblies can cause significant issues to your operations

A modern wind turbine is designed to work for 120.000 hours throughout their estimated life-span of 20 years. To make the most of your valuable assets, **every minute counts**.

Fluiconnecto's solutions are specially designed to:

- **Provide fast and timely assistance**, by offering on-time support through convenience and proximity to your operations.
- **Reduce interruptions in your operations**, by offering superior performance products with longer life.
- **Timely detect predictable failures**, thorough inspections, carried out by qualified and certified personnel.

CHALLENGES WIND FARMS FACE:

- ⚠ Wind farms are usually located in remote areas.
- ⚠ Even a few small incidents can take out as many days as a major failure.
- ⚠ Incidents in the turbines may cause human risk and environmental pollution.
- ⚠ It is very demanding to comply with all the requirements for technology, quality and regulations.



benefits

By working with Fluiconnecto you get:



Efficiency :

All you need from one supplier, available 24/7 and at your doorstep in 5 continents.



Safety :

Lower risks for the environment and people, by offering high quality and certified products.



Reduced downtime:

Plan your maintenance activities and inspections => prevent failures.



Lower costs :

Longer life of your assemblies and less corrective maintenance expenses. Replace only what needs to be replaced.



Reliability :

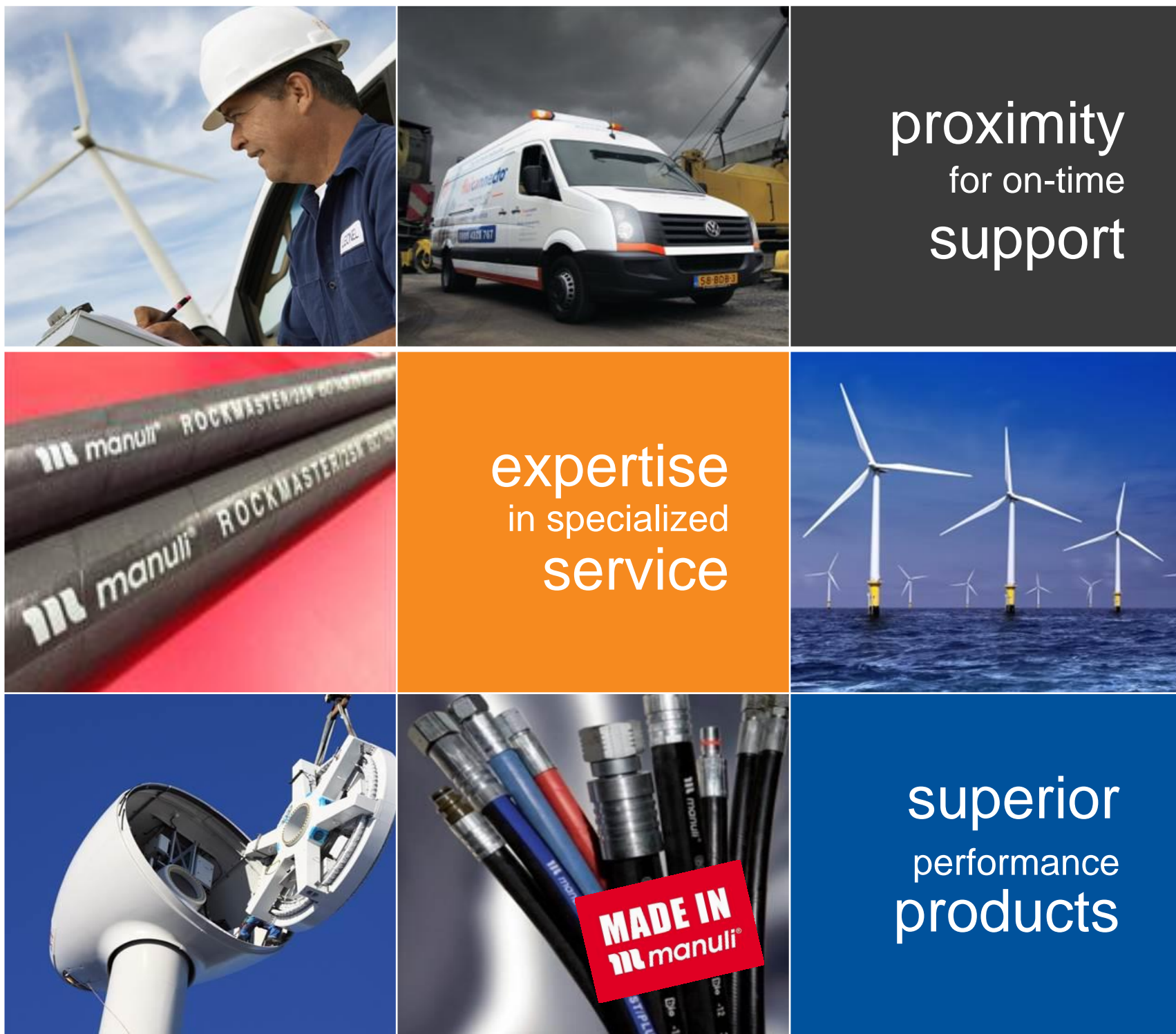
Internationally certified products and specialized personnel. Our technicians have extensive experience and knowledge about hydraulics.



Forecast expenses :

Organize your budget and timely plan the maintenance of your wind turbines' hydraulic components.





our offer

solutions for off-shore & on-shore wind energy turbines

Customer service, responsibility and quality come first in our organization.

Fluiconnecto is committed to deliver innovative solutions, with the aim to position ourselves alongside our customers at the forefront of future developments and technology.

proximity & convenience



Customized
stock



24/7
availability



One stop
shop



Timely
delivery



Established
network

Our solutions are made **available at the customer's doorstep in 5 continents**, through an ever-growing network of Hydroshops, On-site Workshops and Service on-site Vans.



Hydroshop

Conveniently located: come to us and we will serve you



On-site Workshop

For demanding conditions that require technicians always on call, we will set up a workshop on your premises



Service on-site Vans

Wherever you are, we will come to you and help you at any time



expertise in specialized service



Certified hose inspectors



Extensive experience



Know-how about hydraulics

- Hose crimping
- Tube bending
- Door-to-door delivery
- Test & certification
- **flui-ID** Hose Management
- Kitting
- Installation
- 24/7 Maintenance services
- Oil filtration & flushing
- Hydraulic circuit design
- Vendor managed inventory
- Customized fittings
- Pump repairs
- Hose cleaning
- Training & technical support
- Hose marking with individual codes
- Cylinder overhauls
- Technical support
- Water hydraulics solutions

flui-ID

A complete Hose Management Solution that includes full services available 24/7, minimizing the risks of unexpected failures.

our offer

we deliver



Appropriate scheduling of maintenance services



Alerting System for on-time maintenance



Fast and easy traceability of Information

Hose inspections for a correct and on-time diagnosis



Fluiconnecto certified technicians



Tagging: with the assignation of a unique ID code



We do it through

our tools

superior performance products



Fluiconnecto is committed to deliver high standard services using high quality products

INTERNATIONAL TECHNICAL APPROVALS:

ABS | BV | DNV | KRS | LR | NKK | RINA
| RS | GL | MED | CCS

MANULI INTEGRATED SYSTEM

Fluiconnecto's offer complies with security norms like ISO/TR 17165-2

Manuli Hydraulics' products, used accordingly with Manuli Integrated System, offer increased reliability and consequently longer life. The Manuli Integrated System ensures highest performance & safety.



INSERTS



FERRULES



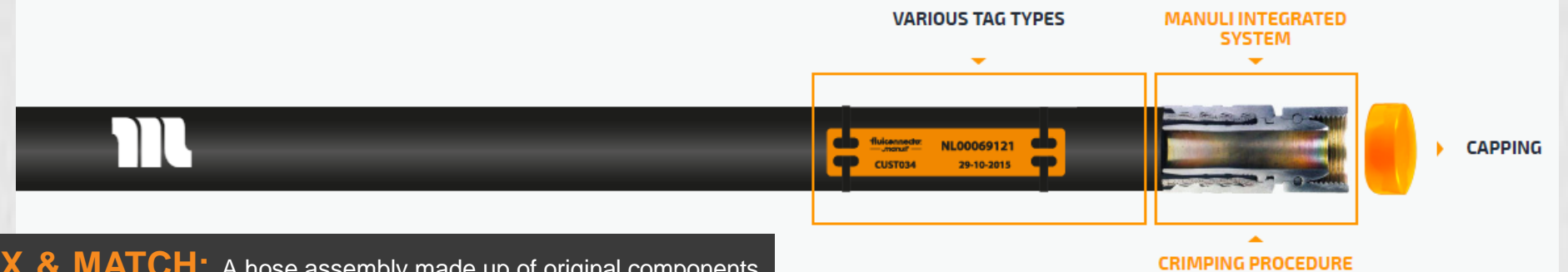
HYDRAULIC HOSES



CRIMPING PARAMETERS



CRIMPING MACHINE



! DON'T MIX & MATCH: A hose assembly made up of original components will guarantee stated performance and service life. Mixing components from different manufacturers may result in serious injury. Use original components from Manuli.

hydraulics for your wind energy turbines

Our products are suitable for all the different components of the wind turbines that involve hydraulics

We understand hydraulics play an important role in wind turbines. Fluiconnecto is equipped to provide you with reliable components as well as installation & maintenance services to support your operations in this highly demanding application.

Our drive and control systems are trusted and tested in industrial hydraulic applications, where continuous running in severe environments is a standard requirement.

- cylinders and actuators
- hydraulic hoses
- stainless steel fittings and rigid pipes
- bite-ring fittings
- valves
- filters
- hydraulic power units

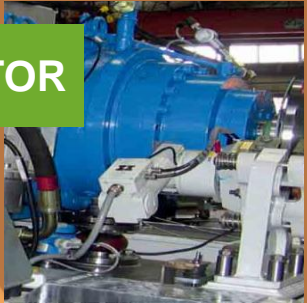
PITCH SYSTEM

Cylinders
Hose assemblies



ROTOR

Hoses
Connectors
Supply unit for oil
lubrication system



GENERATOR

Hoses
Pipes
Fittings



ROTOR BRAKE & AZIMUTH BRAKE

Hoses
Pipes
Fittings



GEAR BOX & GEAR BOX COOLING

Hoses
Pipes and Fittings
Rep. filters
Lubrication & grease
systems



references

extensive experience in the most demanding market sectors and well established operations across the world

Fluiconnecto offers a comprehensive range of solutions for the hydraulic connectors end user market. Including demanding sectors, such as Mining, Oil&Gas, Construction, Industry&Agriculture and Marine environment.

Fluiconnecto works with important clients from different market segments, spread across the globe, in: South America, Europe, Africa, Middle East and Asia Pacific.

- ✓ 25 years of experience working with hydraulic solutions
- ✓ Certificates for the requirements of each industry
- ✓ Sheer number of over 2000 standard products on offer
- ✓ The performance of our products exceed the requirements of the international specifications
- ✓ Specialized products, designed, tested and manufactured for the toughest conditions.

Mining

Oil&Gas

Energy

Agriculture

Forestry

Construction & Public Works

Industrial Application

Cleaning & Blasting

Transport

Marine & Harbors

Material Handling & Logistics

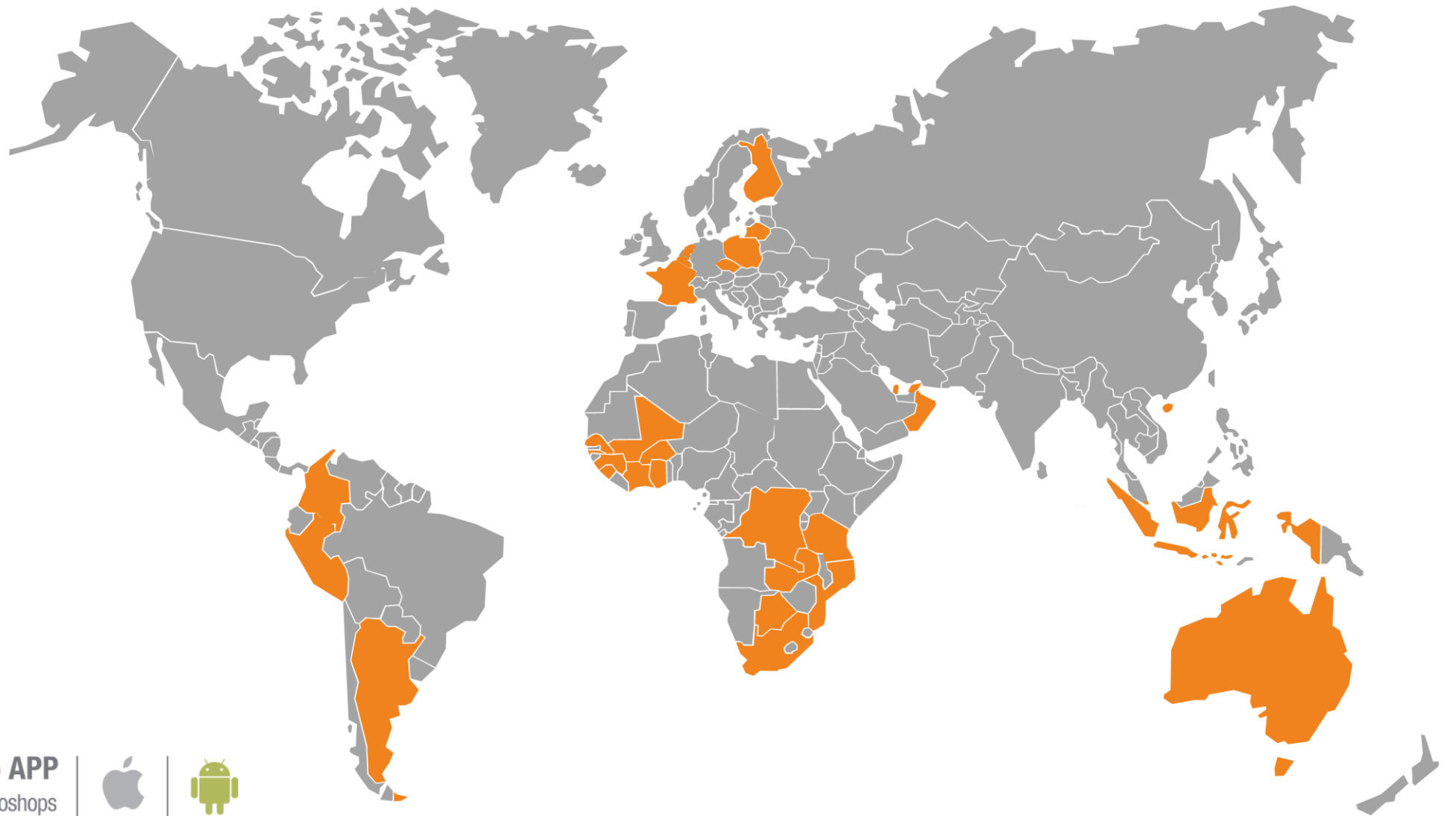
Refrigeration/AC

When and where you need us

Contact your Fluiconnecto representative to learn more about our high-quality products and innovative services!

Fluiconnecto Countries:

 Argentina	 France	 Peru
 Australia	 Ghana	 Poland
 Belgium	 Guinea	 Qatar
 Botswana	 Indonesia	 Senegal
 Burkina Faso	 Ivory Coast	 Sierra Leone
 Colombia	 Lithuania	 Singapore
 Czech Republic	 Mali	 South Africa
 DR Congo	 Mozambique	 Tanzania
 Finland	 Netherlands	 UAE
	 Oman	 Zambia



www.fluiconnecto.com

