


Construction

Modular skid systems
Sistemi skid modulari



 **HYDROALP**

 **VBM**
GROUPO

COMPANY OVERVIEW

The **Alps**, Europe's most important mountain range, not only enchant with their imposing peaks, forests, and breathtaking landscapes, but also represent a rich **history, tradition,** and **experience**. Besides being a symbol of unspoilt **nature**, they are also an example of **technology** and **innovation** in the virtuous use of renewable energy sources, such as hydropower, photovoltaics, and wind power.

Hydroalp, an EPC contractor in the **renewable energy** sector, was born in 2015, inspired by the Alps for the values of **innovation, sustainability,** and **integration** that they represent. These values can contribute to the **sustainable development** of energy resources, preserving and enhancing the environment for **future generations**.

MISSION

Hydroalp's mission is to drive the transformation towards a **sustainable future** by providing comprehensive and innovative renewable energy solutions. Through our **experience, expertise,** and **passion**, we are committed to maximising value for our customers, reducing environmental impact, and contributing to climate change mitigation.



VISION

Inspired by the **beauty** and **power** of the Alps and guided by our core values of **sustainability, integrity, innovation,** and **collaboration**, we believe in renewable energy as a means to create a better future and a better world for present and **future generations**.

UNI EN ISO 9001:2015

UNI EN ISO 14001:2015

UNI ISO 45001:2018



Hydroalp

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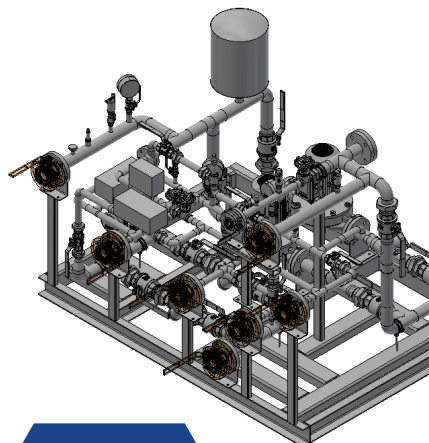
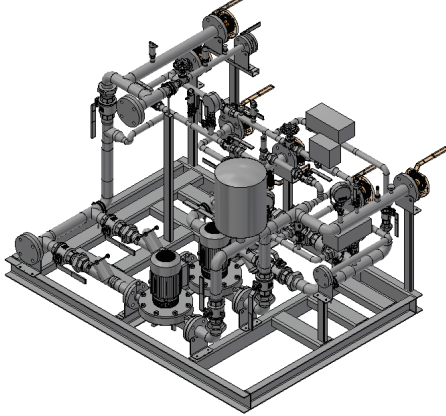
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With the incorporation of Al.Fa. Impianti Srl, a company with more than 30 years of history and expertise in the production of generic skids and welded components for piping and pressure containers, Hydroalp expands its offer with the design and production of components related to the management of fluids, gases, biofuels, and innovative fuels (biomethane, methanol, ammonia, green hydrogen) especially destined for the energy, transport, and naval sectors.

Con l'acquisizione di Al.Fa. Impianti Srl, azienda con oltre 30 anni di storia e specializzazione nella produzione di skid generici e componenti saldati per tubazioni e recipienti a pressione, Hydroalp amplia la propria offerta con la progettazione e produzione di componenti impiantistici legati alla gestione di fluidi, gas, biocarburanti e carburanti innovativi (biometano, metanolo, ammoniaca, idrogeno verde) destinati in particolare ai settori energetico, dei trasporti e navale.

By combining these new competencies with its established experience as an EPC contractor, Hydroalp further consolidates its prestigious role in the energy sector.

Combinando queste nuove competenze con la consolidata esperienza di EPC contractor, Hydroalp afferma ulteriormente il suo ruolo di prestigio nel settore dell'energia.

Skids are used in all those sectors where complex and reliable fluid-handling systems are needed for specific industrial processes: naval, oil&gas, automotive, and machinery.

Gli skid vengono utilizzati in tutti quei settori in cui c'è la necessità di realizzare impianti complessi e affidabili per il trattamento di fluidi in particolari processi industriali: navale, oil&gas, automotive, machinery.



Raffreddamento Generatore

Manuale Auto

Pompa 1
 Utenza Pronta
 Start Stop
 Comando Feedback

Pompa 2
 Utenza Pronta
 Start Stop
 Comando Feedback

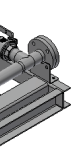
Temperatura Start 60.0 °C
 Temp. Max Statore [°C] 29.4
 Temperatura Stop 30.0 °C

Temp. Acqua Calda [°C] 24.1
 Temp. Acqua Fredda [°C] 24.8
 Temp. Aria Calda [°C] 26.1
 Temp. Aria Fredda [°C] 27.8

Flusso Acqua Generatore OK
 Flusso Acqua Moltiplicatore OK
 Perdite Scambiatore
 Pressione Aspirazione OK

1. ENGINEERING PROGETTAZIONE

- Customised engineering
- Process, structural, electrical, and automation engineering calculations
- FEM analysis with check of the load capacities of the various structural and pressure components
- Analysis of plant environmental and operating conditions
- Ingegneria su misura
- Calcoli di ingegneria di processo, strutturale, elettrica e di automazione.
- Analisi FEM con il controllo delle capacità di carico delle varie componenti strutturali e in pressione;
- Analisi delle condizioni ambientali e operative dell'impianto

- 
- Frame and piping construction
 - Selection and procurement of components
 - Complete painting
 - Electro-instrumental wiring insulation, tagging

- Costruzione telai e piping
- Scelta ed approvvigionamento dei componenti
- Verniciatura completa
- Cablaggio elettro strumentale coibentazione, etichettatura

2. CONSTRUCTION COSTRUZIONE

3. CONTROL SYSTEM SISTEMA DI CONTROLLO

- Definition of operating logic
- PLC/Scada software programming
- Design and construction of automation and machine boards

- Definizione delle logiche di funzionamento
- Programmazione software PLC/Scada
- Progettazione e costruzione quadri di automazione e bordo macchina

- Non-destructive testing of materials and welds
- Hydraulic leak tests.
- Blank and functional tests in a test room with water or oil circulation
- Final packaging

- Collaudi non distruttivi sui materiali e sulle saldature.
- Prove di tenuta idraulica.
- Prove in bianco e test funzionali con sala prove con circolazione di acqua o olio.
- Imballo finale

4. TESTING COLLAUDO

5. ON-SITE ACTIVITIES ATTIVITÀ ON SITE

- On-site installation and supervision
- Plant commissioning
- Service and maintenance activities

- Installazione e supervisione al montaggio in sito
- Messa in servizio degli impianti
- Attività di service e manutenzione



SPECIAL PLANTS IMPIANTI SPECIALI

- Customised turnkey plants (equipped with process instrumentation, automation, and control)
- Hydraulic plants equipped with control units
- Stainless and carbon steel machining
- Impianti customizzati chiavi in mano (completi di strumentazione di processo, automazione e controllo).
- Impianti oleodinamici completi di centraline
- Lavorazioni in acciaio inox e al carbonio

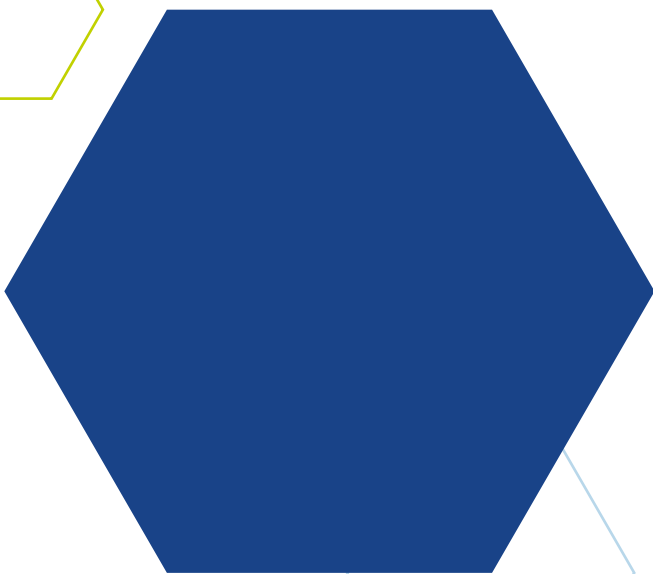
O&M O&M

- Verification of process and plant operating performance
- Continuous customer support and training
- Verifica delle performance di processo e di esercizio degli impianti.
- Assistenza e formazione continua al cliente

SPECIFIC CERTIFICATIONS CERTIFICAZIONI SPECIFICHE

- DNV APPROVAL OF MANUFACTURER CERTIFICATE
- Manufacture of Welded Pressure Equipment, Class I & II
- Welding of Piping Systems





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 **BM
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