

H+H SCR SYSTEMS FOR NO_x REDUCTION BY THE EXPERTS



ENGINEERING
& SERVICE

H+H – PIONEERS IN REDUCING NITROGEN OXIDES (NO_x)

H+H Engineering & Service GmbH is a privately owned leading manufacturer of **exhaust gas** and **exhaust air purification technology** located in Sonnefeld in Germany.

Our **goal** is to make an important contribution to **reducing** potential **risks** for human **health** and for the **environment**. Our focus here is specifically the **limitation** of **nitrogen oxides (NO_x) emissions**.

One of our core branches of our SCR systems are **maritime applications** in the sectors **crui**se, **offshore**, **research**, **cargo**, **fishing** and **fish farming**.

In our further business unit **service** we **differ** significantly from other SCR providers. Our scope of services extends to the delivery of the new SCR system: We carry out maintenance and service with our own **highly skilled colleagues** and additionally with our highly specialized partners.

With our SCR based emission control systems we keep our promise to act as **pioneers** in the **SCR technology**.

Our **core competences** include the **catalyst design, development, PLC programming, commissioning** as well as **service and maintenance**.

We support you to choose the best way to protect the environment by implementing an optimal concept for **reducing NO_x emissions**.

Especially our flexibility and the **variable, small catalyst sizing** as well as our experience in **servicing more than 700 SCR systems** worldwide are among our particular strengths.

DRAFT

PLANNING · ENGINEERING

COMMISSIONING

SERVICE · MAINTENANCE

SOLUTIONS & SERVICE BY INTERNATIONAL NETWORK

HEADQUARTER

H+H Engineering & Service GmbH
Germany

EUROPE

DCL Europe
France/Italy

MIN-NO_x AS
Norway

MMC GREEN
TECHNOLOGY AS
Norway

Morgan Technical
United Kingdom

NorthWest International
Enterprise S.L.
Spain

ORGREZ, a.s.
Czech Republic
ReduNO_x B.V.
Netherlands

Täubler Oy
Finland

NORTH AMERICA

AeriNO_x Inc.
USA

DCL International Inc.
Canada

SOUTH AMERICA

Better
Chile

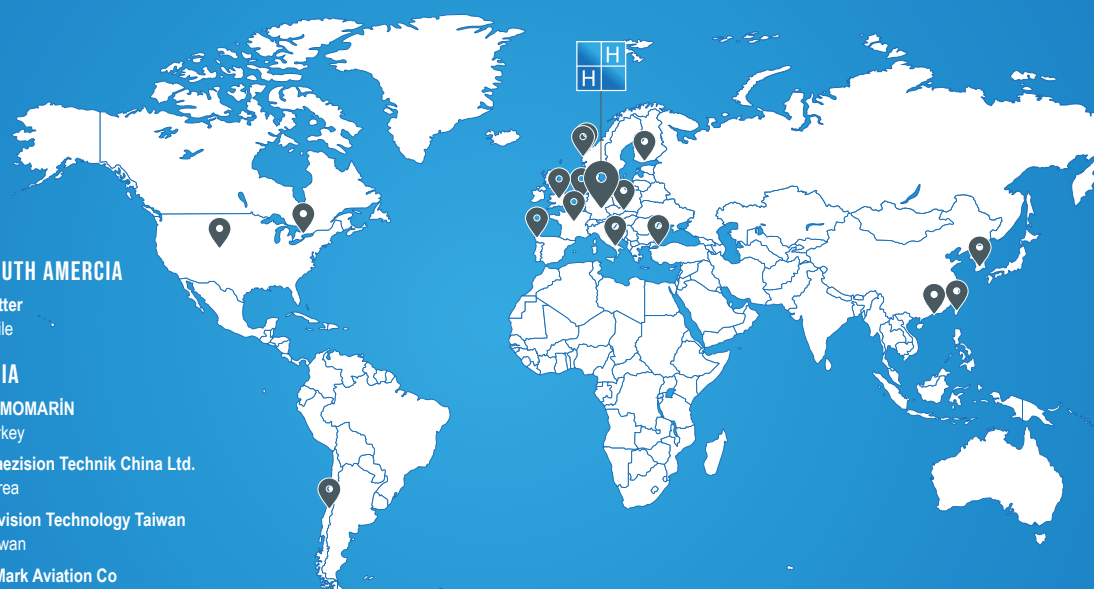
ASIA

NEMOMARIN
Turkey

Praezision Technik China Ltd.
Korea

Trivision Technology Taiwan
Taiwan

V-Mark Aviation Co
Hong Kong



H+H AT A GLANCE

H+H leverages over three decades of expertise in the catalytic industry and advanced SCR technology

HSC Gotlandia I + II; MS Birka Paradise; Staten Island Ferry; Silja Europa

Clean Design – optimized urea consumption with different NOx target values outside ECA zones

Datalogger for NOx reporting

Commissioning of 250 SCR systems – 750 engines

1991

2018

TO BE CONTINUED ...

First Military Vessel – HMS Carlskrona, Sweden
MS Visby/MS Thjelvar – Reederi Gotland

Foundation of H+H Engineering & Service GmbH

NOx reduction counter – live counter to see kg NOx reduced

Retrofit North Sea Giant
First SCR System for Wind Offshore Vessel for Edda Mistral

Extension and move into new company building

ICP – intelligent catalyst protection – prevent catalyst clogging in low load operation (DP mode)

CATALYST DESIGN FOR MINIMUM SPACE – 700 SCR INSTALLATIONS IN SERVICE WORLDWIDE

CRUISE



VESSEL NAME: SILJA SERENADE

OFFSHORE



VESSEL NAME: EDDA MISTRAL/PASSAT

RESEARCH



VESSEL NAME: RV JOHAN HJORT/BÅTBYGG AS

CARGO



VESSEL NAME: EXQUISITE

FISHING



VESSEL NAME: FMV41 CETUS

FISH FARMING



VESSEL NAME: TAUPO/FITJAR MEKANISKE VERKSTED AS

PLEASE CONTACT US IN ORDER TO CHOOSE THE BEST WAY TO PROTECT THE ENVIRONMENT BY REDUCING NOx EMISSIONS.

 <p>MARINE SCR SYSTEMS</p>	 <p>CO₂ FERTILIZATION</p>
 <p>INDUSTRY</p>	 <p>SERVICE</p>



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