



# COMPLETE EXHAUST SYSTEMS

FOR GAS TURBINES AND EVERY OTHER  
COMBUSTION MACHINES.





## SINGLE SOLUTION APPROACH

WE OFFER COMPLETE TURNKEY SERVICE FROM SITE VISIT TO ENGINEERING, MANUFACTURING INSTALLATION AND HANDOVER.

H+R provides exceptional products and services, from the initial design concept through site erection assistance and commissioning of the supplied equipment.

Based on our in-house fabrication together with dedicated partners world-wide, H+R can offer quick turnaround and delivery from strategically located and cost effective manufacturing facilities.

Throughout the entire process, H+R's team of dedicated and capable engineers, designers, project managers, technicians and craftsmen work closely with the customer to develop superior solutions for even the toughest challenges.



## TURNKEY APPROACH

H+R has established from off-the-shelf and custom-designed air inlet and exhaust system components to engineered-to-order enclosures, H+R sets an uncompromising quality standard. All aspects of component manufacturing are managed in-house. Substantial global sourcing and supply chain resources allow H+R to guarantee not only quality of the components, but the project as a whole.

Official regulations for noise emission require stringent and low noise levels whereas required high efficiency of gas turbines needs low pressure drop. H+R exhaust technology is designed to deliver exactly that.

Latest and state-of-the-art calculation and design technology and software ensure that components are engineered according to the specific project and customer requirements.



## MORE THAN A SUPPLIER

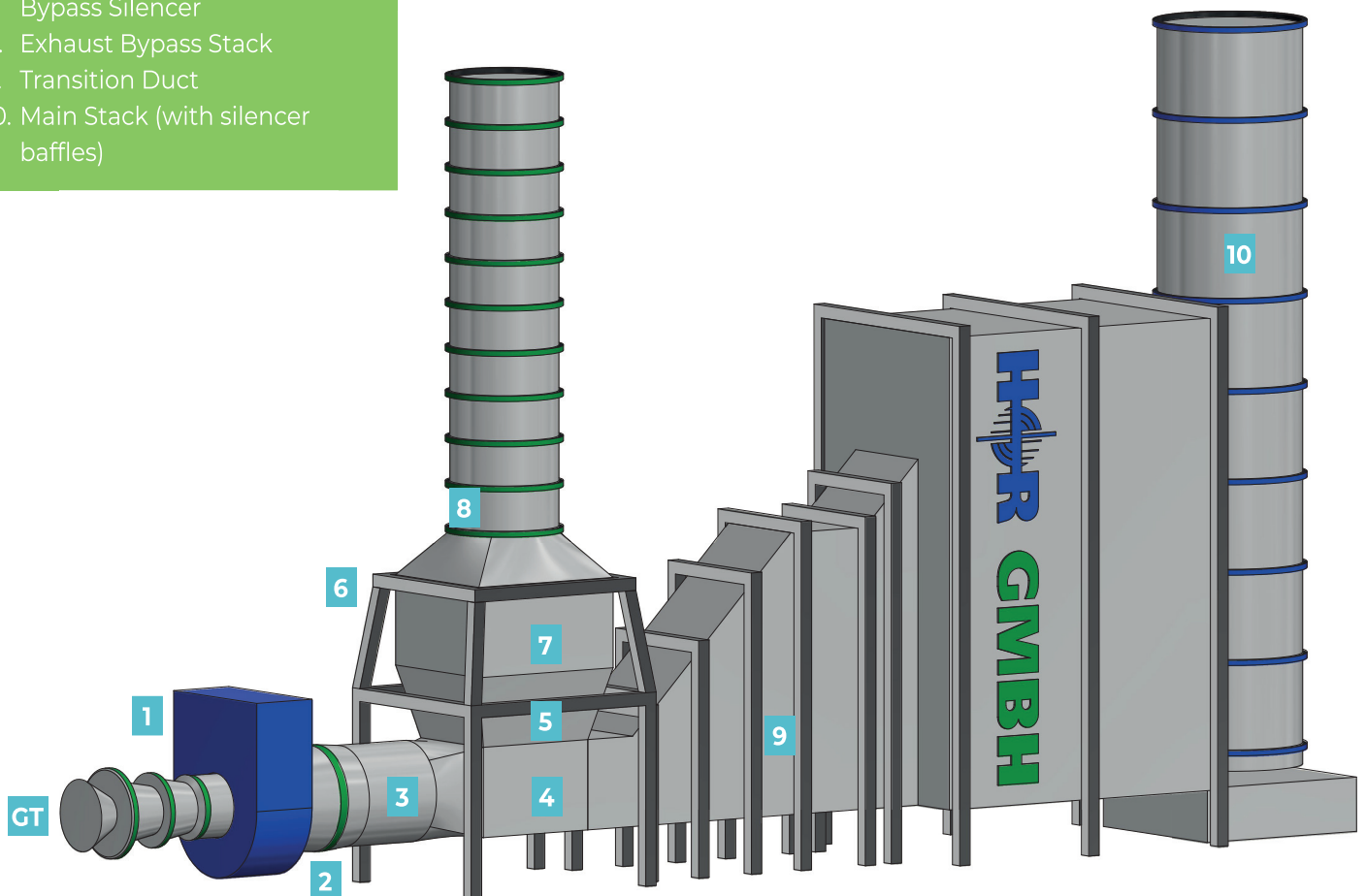
H+R IS A PARTNER WHO STANDS BY THE EQUIPMENT BEFORE, DURING AND AFTER INSTALLATION. WE DESIGN AND DELIVER COMPLETE EXHAUST SYSTEMS WITH SPECIAL FOCUS ON ACOUSTIC AND MECHANICAL PERFORMANCE IN LINE WITH CUSTOMERS BUDGET AND PROJECT REQUIREMENTS.

## COMPLETE SCOPE

1. Exhaust Plenums
2. Expansion Joint
3. Exhaust Duct & Silencers (internally insulated)
4. Diverter Damper (in cooperation) incl. T-Box
5. Transition Duct (internally insulated)
6. Support structure
7. Bypass Silencer
8. Exhaust Bypass Stack
9. Transition Duct
10. Main Stack (with silencer baffles)

H+R Exhaust systems not only guarantee a single solution approach with reliable performance but also consider other aspects like support structures, all auxiliaries and any other specialized silencer systems that offer long term operation as well as excellent mechanical performance with minimum downtime.

Based upon our experience we are able to offer complete turnaround projects in line with industry requirements and lead times.







## SPECIALISED SERVICES

- Technical field service supervision and assistance
- Preventive maintenance inspections
- Installations and operational qualification
- Equipment surveys and system walk-down services
- Replacement / refurbishment / modernisation of all brands related equipment
- Custom engineering of replacement equipment
- Emergency response

## CLIENTS ADVANTAGE

- Custom engineered solutions appropriate to requirements of each specific project.
- Acoustic performance guarantee vs appropriate pressure drop
- Reduced planned downtime and operational cost
- Detailed site requisition and after sales support
- More than just a supplier - H+R is a partner who stands by the equipment before, during and after installation.





## PRODUCTS & SYSTEMS

COMPLETE  
AIR INTAKE SYSTEMS



ACOUSTIC ENCLOSURES  
CLADDINGS & SCREENS



COMPLETE  
EXHAUST SYSTEMS



FLUE GAS  
SILENCERS



BLOWOFF & STEAM  
VENT SILENCERS



COOLING TOWER  
SILENCERS & SERVICES



**TURNKEY  
SERVICE  
PROVIDER  
FOR  
INDUSTRIAL  
NOISE  
CONTROL,  
AIR  
FILTRATION  
& COMPLETE  
EXHAUST  
SYSTEMS**

## RETROFIT & SITE SERVICES

PLANT RETROFIT  
& UPGRADE



PLANT MAINTENANCE  
& OUTAGE SERVICES



ACOUSTIC  
CONSULTANCY



- ▶ Energy & Utilities
- ▶ Oil & Gas
- ▶ Industrial Plants
- ▶ Petrochemical & Chemical
- ▶ Pharma & Bio Pharma
- ▶ Infrastructure

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