

# Gas turbine air management

Complete engineered retrofit inlet and  
exhaust systems



**Your  
world-  
clean,  
quiet and  
safe**

# Turnkey air management experts

Dürr Universal is the most-trusted name in gas turbine air management. Dürr Universal is your absolute single-source provider of complete engineered retrofit inlet and exhaust systems that outperform original equipment for both simple and combined cycle power plant operations.

## CONTROLLING COSTS; MANAGING RISK

Whatever the project scope, basic to complex, installation of a new or replacement turbine system, you work with one company—Dürr Universal. This approach reduces cost, manages risk, and eliminates integration issues, all while keeping work on budget and on schedule.

When you select Dürr Universal, you have access to a complete team of experts involved with your entire project, from initial consulting through commissioning, as well as throughout the product life-cycle—all with an extensive offering of products and services.

## GLOBAL FOOTPRINT

Dürr Universal helps utility operators around the world meet the ongoing needs of their customers. Our 60+ years of experience delivering air management systems and components means we support all major turbine brands.

We leverage our depth of capabilities to tackle any project, anywhere. From applications of five megawatts to several hundred megawatts, we enable gas turbine power operators to comply with regulations for clean air and noise abatement, safely and efficiently. Our goal is a safe trouble-free project.



Performing regular maintenance, updates during scheduled outages, and unexpected equipment replacements are simply the nature of the power generation business. Dürr Universal makes the difference in minimizing the disruptive nature of these activities.

# Master control of field and installation services



## TRUSTED LONG-TERM PARTNER; STABLE AND FINANCIALLY SOUND

Dürr Universal offers complete field and installation services for power generation equipment, regardless of the size or complexity of the retrofit job. Services are performed by OSHA safety-trained technicians, and Dürr Universal is ISO 9001 certified. We also deploy field-based certified welding inspection technicians to meet specific, fast-turn projects.

## MANUFACTURING EXPERTISE

Our customer base is global and utilizes a broad range of gas turbine brands, so we manufacture components that meet or exceed OEM-specifications and global quality standards. We apply the latest technology to manufacture engineered acoustic and emission systems, filtration systems, and enclosures, all matched to the application requirements.

Project-specific testing and documentation provide quality assurance, regardless of refurbishment scope. Our certifications include:

- ISO 9001
- ISO 14001
- API
- NACE
- ASME
- PED, CRN, EN, AS, GOST



The Dürr Universal team knows how to spot problems before they become critical, which serves as a large help to removing potential long-term issues.



Dürr Universal is a strong field service partner who understands the power generation industry and can easily work within scheduled outages to optimize existing equipment.

# Total solutions capabilities

## CUSTOM ENGINEERING—ACOUSTICAL/STRUCTURAL/AIR-FLOW ANALYSIS

Safety and reliability are of utmost importance to Dürr Universal. We will provide you design consultation, solution options, and all required supporting documentation. We validate our engineering and designs with state-of-the-art modeling and analysis, and we prove our performance with documented testing procedures:

- In-house engineering control confirms system design
- Project management oversight and responsibility means your project is executed according to plan and budget
- Multi-plant manufacturing adds flexibility
- Installation services and engineering validation is our assurance your system and its components meet all your specific long term needs
- After-sale support and annual inspection services ensure we have met all your system requirements—from installation and commissioning, to being operationally compliant

## OPERATIONAL SERVICES: DRIVING OVERALL COST-EFFECTIVENESS

In today's competitive environment, you need to find the safest way possible to manage costs. Most-often, this requires examining the entire scope of the project, thinking long term and looking beyond the itemized cost of an air management component. Our services confirm overall project viability and include:

- Acoustic and structural site surveys
- Budget costing preparation
- Advanced acoustic insulation materials
- Enhanced thermal designs
- High-temperature coatings
- Custom-engineered solutions
- Inspection and reporting of current systems to determine system health
- Commissioning and start-up
- Turnkey system solutions
- Dürr Universal's own field services supports



Dürr Universal provides complete engineered retrofit inlet and exhaust systems that outperform original equipment.

# Solutions for simple cycle gas turbines

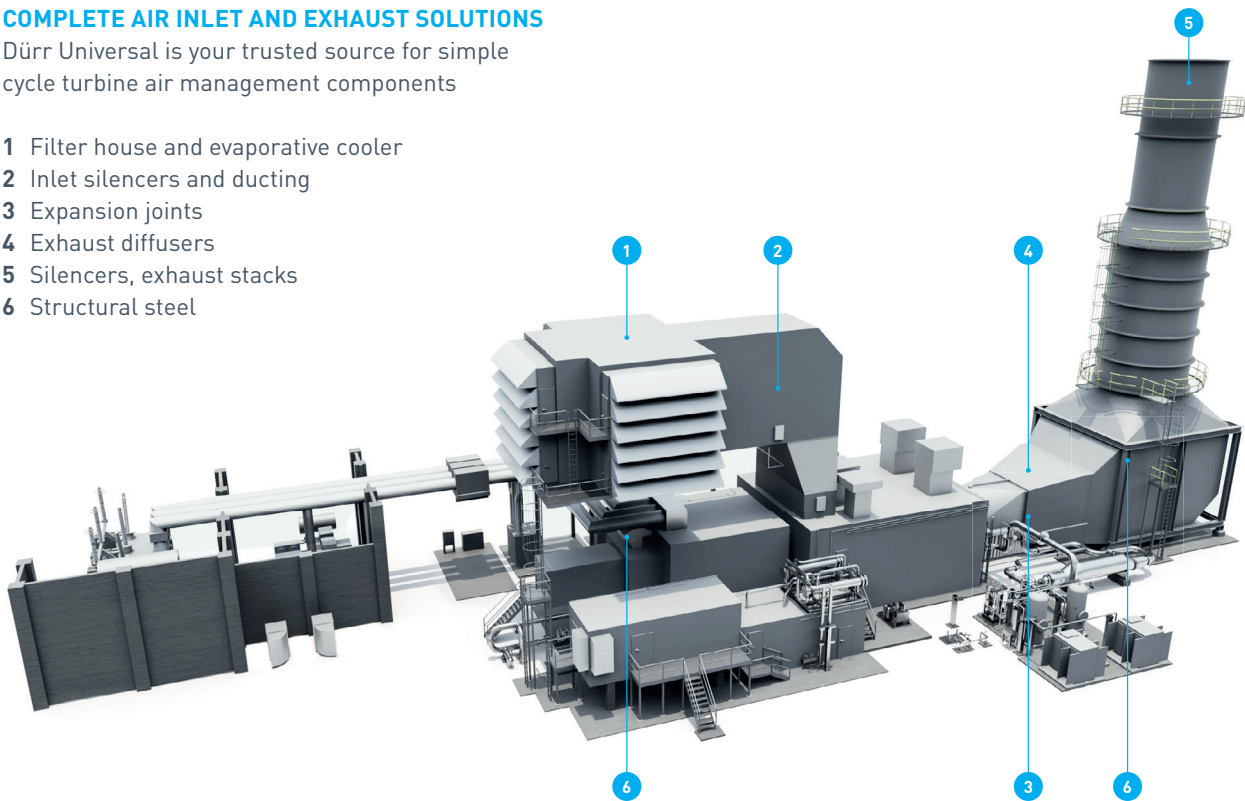
## AIR MANAGEMENT: ENGINEERED RETROFIT INLET AND EXHAUST SYSTEMS

As the most-trusted name in gas turbine air management, Dürr Universal supplies full design and manufacturing support of all inlet and exhaust components.

## COMPLETE AIR INLET AND EXHAUST SOLUTIONS

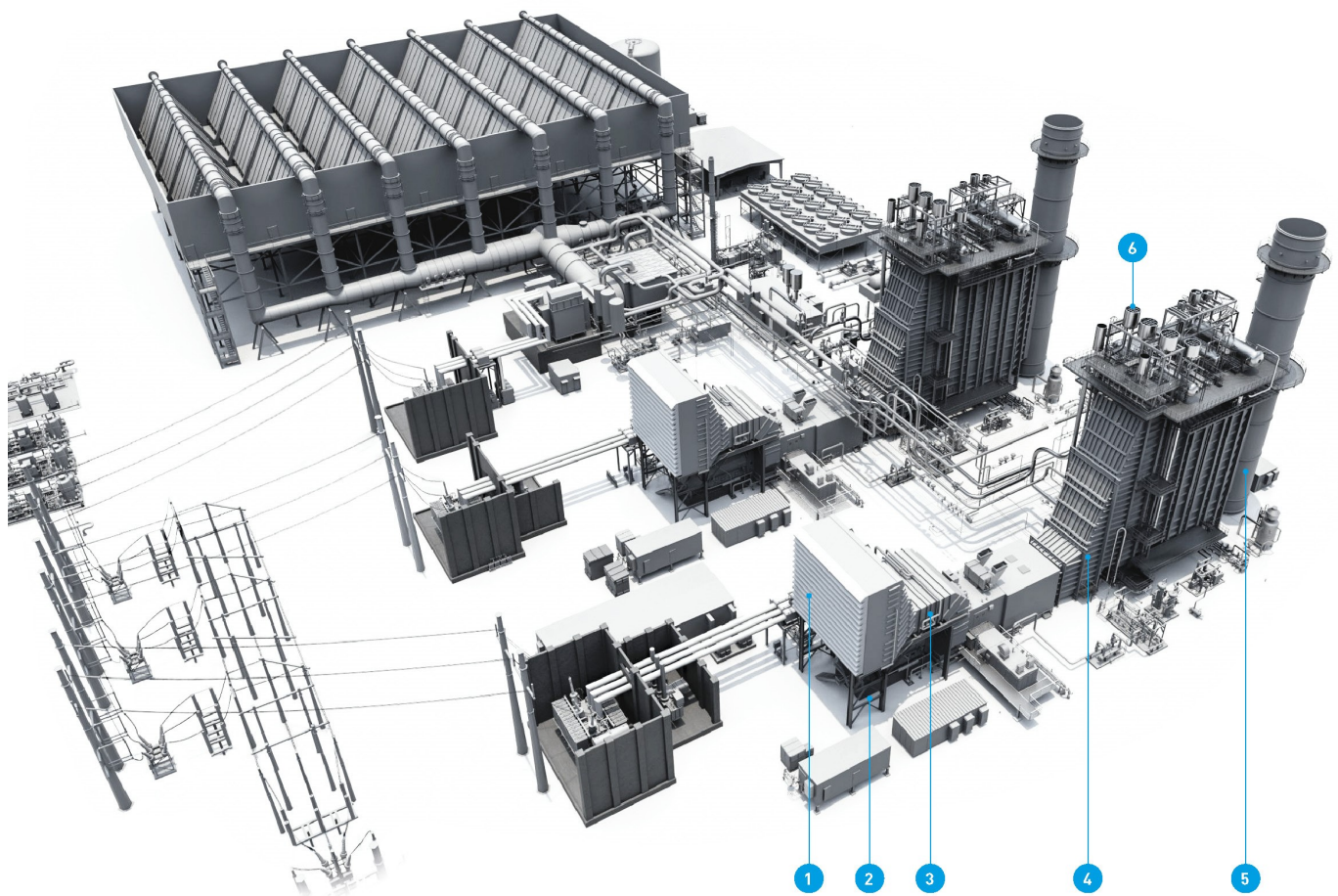
Dürr Universal is your trusted source for simple cycle turbine air management components

- 1 Filter house and evaporative cooler
- 2 Inlet silencers and ducting
- 3 Expansion joints
- 4 Exhaust diffusers
- 5 Silencers, exhaust stacks
- 6 Structural steel



Dürr Universal is the leading provider of silencing, emissions, and filtration expertise in the power generation industry. It guides customers through the most complex projects and fully understands all specific requirements. With safety and reliability of utmost importance, Dürr Universal offers design consultation, multiple solution options, and supporting documentation. Designs are validated with state-of-the-art modeling and analysis, as well as confirmed testing procedures.

# Solutions for combined cycle gas turbines



## COMPLETE AIR INLET AND EXHAUST SOLUTIONS

Dürr Universal is your trusted source for combined cycle turbine air management components

- |                                       |                       |
|---------------------------------------|-----------------------|
| 1 Filter house and evaporative cooler | 4 HRSG inlet ducting  |
| 2 Engineered structural steel         | 5 HRSG exhaust stacks |
| 3 Inlet silencers and ducting         | 6 Steam vent silencer |



Subject to change. The information in this brochure contains only general descriptions or performance characteristics which may vary in actual cases. The requested performance parameters shall be binding only if they are explicitly agreed within the sales contract. © Dürr-Systems, Inc 2021.



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