

## Diverter Damper

STEJASA has designed and manufactured diverter dampers since 1986. The high proliferation of gas turbine cogeneration around the world has made it possible for STEJASA to acquire a high grade of experience.

Single blade dampers have great advantages like:

- Low sealing perimeter and therefore low power consumption on the seal air fans.
- Low pressure drop.
- Very simple construction and therefore high availability.

For a 100% sealing efficiency a double seal row or "V" shape seals shall be fitted. The cavity formed by the seals and the landing bars is pressurized by a small fan in order to provide an effective air barrier resulting in zero cross blade leakage or 100% tightness.



## Gas distributor

Stejasa's gas distributors are highly customizable. These can be single or multiblade, circular or rectangular cross-section, tandem blade, with or without internal insulation, etc..

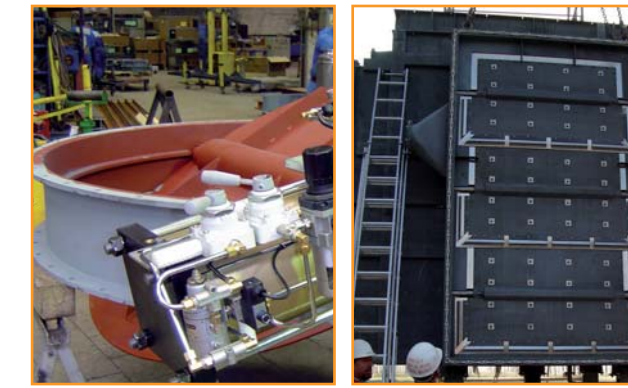
Currently we are using gas distributors in a wide range of industries including power generation and petrochemical. They offer exceptional flow control performance when our Client requires modulating control during startup as well as for process steam or heat.



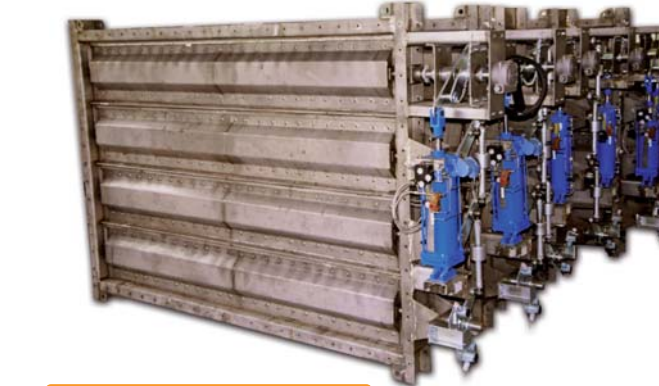
## Multilouver, tandem louver and stack damper

STEJASA designs and supplies butterfly and multilouver dampers for all industrial applications. They are built for a wide range of sizes, shapes and applications. They can be circular, square or rectangular, from a quarter square meter to over one hundred square meters. We can design them with external or internal insulation and use any kind of drive (manual, electric, pneumatic, hydraulic)

For a 100% tightness efficiency, state of the art tandem dampers, with seal air, are available.



Stack damper



Butterfly and multilouver

## Guillotine Damper

STB BLANKING PLATE: The blanking plate is hanging from its supporting structure. To operate it, the plate is inserted by unbolting the flange at the expansion joint which is then compressed to allow the plate to be inserted.

STR REPAIR GUILLOTINE: It includes a frame, a blade and its supporting structure. The frame is provided with a removable cover that remains closed when the plate is in or out of the gas stream. The blade is provided with flexible seals when high tightness is required. The blade is inserted using a manual or electric hoist.

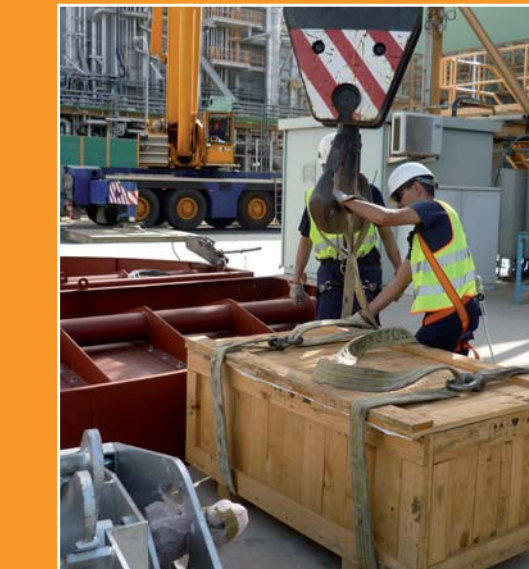
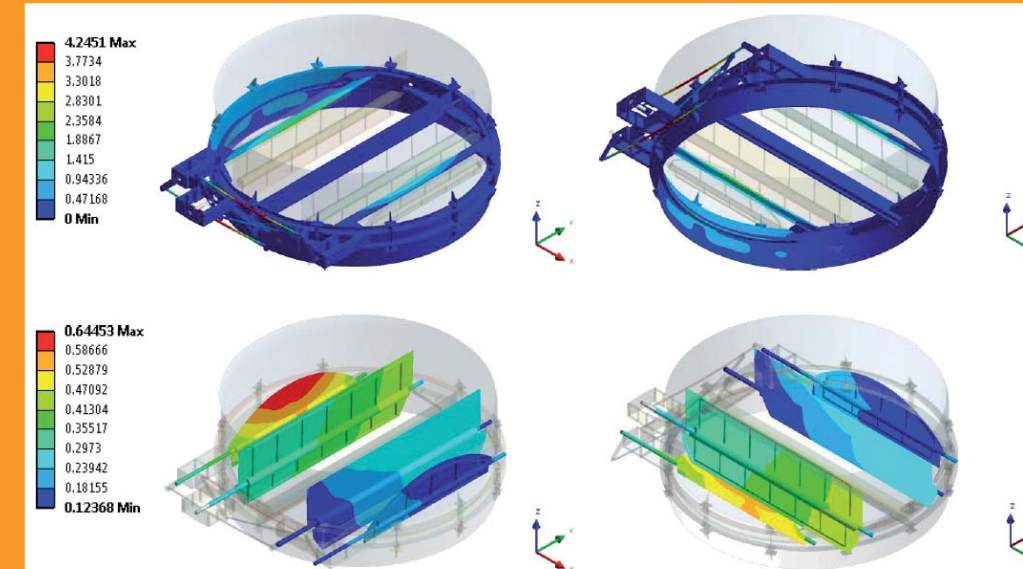
STS PROCESS GUILLOTINE: STS guillotines are used for process industries and are fully automated, and therefore controlled by the plant SCADA.

Options: Seal air system for 100% tightness; external or internal insulation; all types of drives.



## A world of dampers

STEJASA is a company born in 1974 in Madrid (Spain). We are proud to have delivered so far more than 10.000 dampers, including: by-pass stacks, diverter dampers, gas distributors, multilouvres and guillotines. We have supplied these in over 50 countries with Clients in more than 40 countries. We are very active in CCPP, gas turbines & motors cogenerations, thermal power plants, DeNOx, DeSOx, waste incineration, cement, petrochemical and steel industries.



- Erection
- Commissioning
- Spare parts
- Field services
- Upgrades
- Revamping
- Replacements
- etc...

## After Sales

# Exhaust Bypass Systems

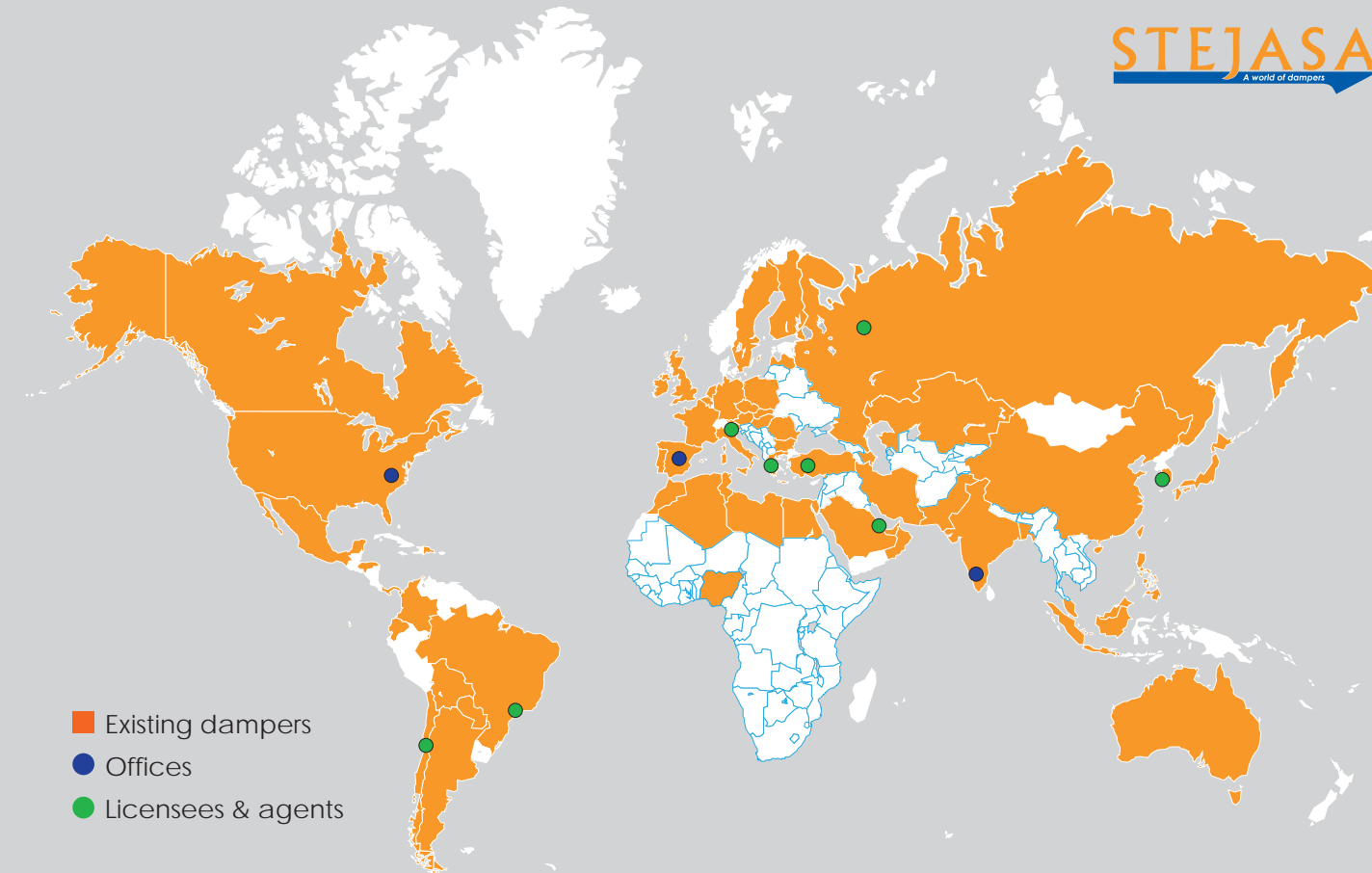
STEJASA designs and supplies exhaust bypass systems for all kind of gas turbine installations. These are designed according to the GT and plant characteristics in simple cycle or combined cycle mode (a bypass system which includes a diverter damper).

A bypass system presents many advantages:

- It allows power generation with the GT during boiler erection or boiler maintenance.
- The exhaust flow can be controlled with diverter blade reducing boiler thermal stresses at startup.
- Emergency shut-down of HRSG is possible.

Exhaust bypass systems generally include: diffuser, bypass dampers or elbow, stack with supporting structure, silencer, expansion joints, ladders and platforms, aircraft warning lights and emission test ports. Ducting and stack are delivered internally insulated with stainless steel cladding protection.

Additionally, STEJASA designs special configurations with the stack directly supported by the bypass damper. This solution eliminates the supporting stack structure reducing civil works and erection period.



[www.stejasa.com](http://www.stejasa.com)

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Exhaust Bypass Systems

Diverter Dampers

Gas distributors

Multilouvers

Guillotines

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