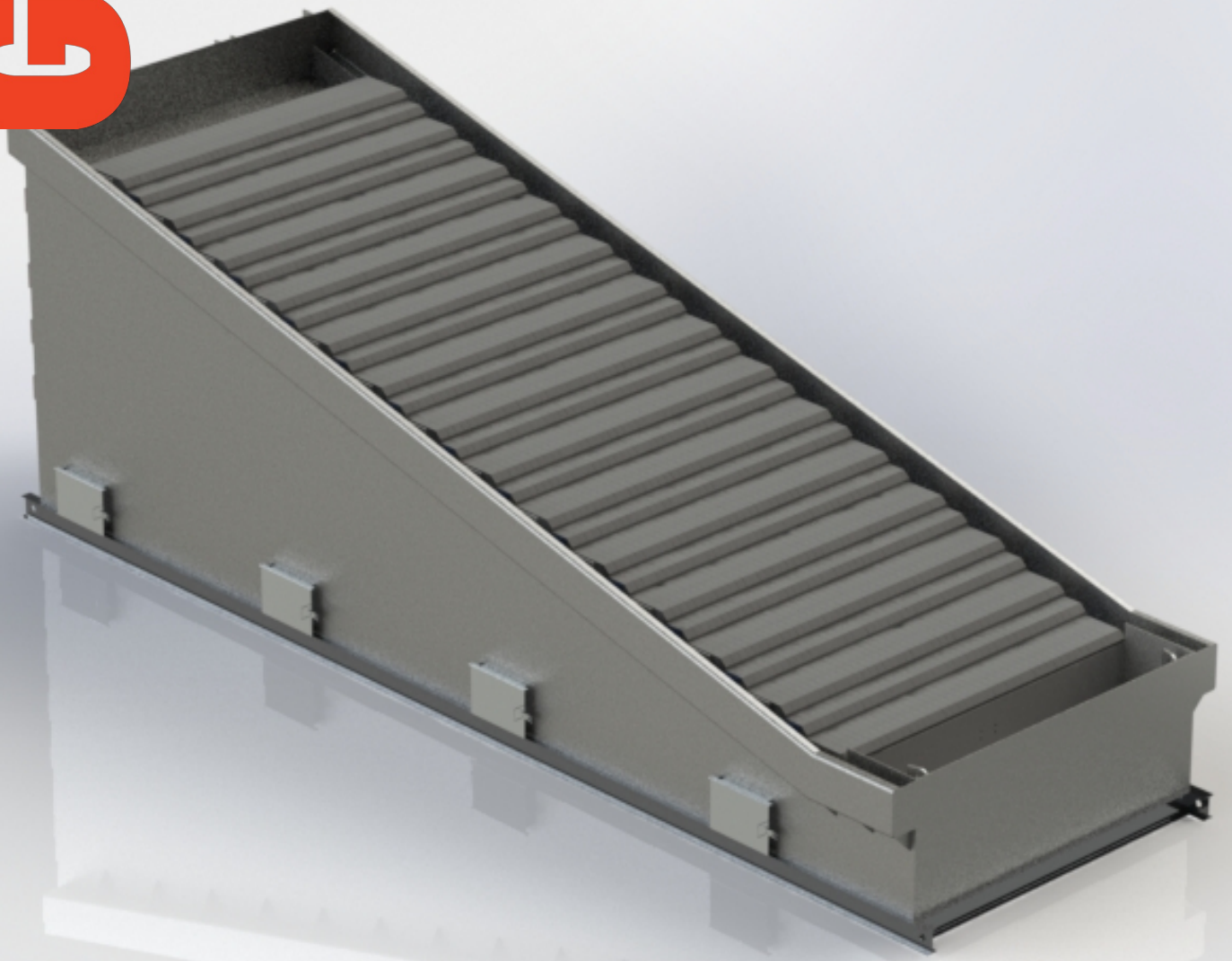


GETABEC

**DYNAMIC STEP GRATE
DSG - AC**



DYNAMIC STEP GRATE

PRECISION FIRE CONTROL TECHNOLOGY the heart of combustion control

The **GETABEC Dynamic Step Grate** gives you precise control over every stage of your complete combustion process; Drying, Evaporation, Ignition, Combustion and Burn Out.

Each stage is individually controlled to ensure optimal process in that area, allowing for high efficiency and good emissions.

INTELLIGENT FUEL FLOW

Accurate fuel calculations are crucial to optimal energy and emission control. The advanced algorithms and PLC controller will automatically adjust with different fuels.

GRATE BAR ELEMENTS

The grate bars chemical composition is custom designed for each type of fuel. This ensures a long lifetime of these components, leading to higher reliability.

VARIABLE HYDRAULICS

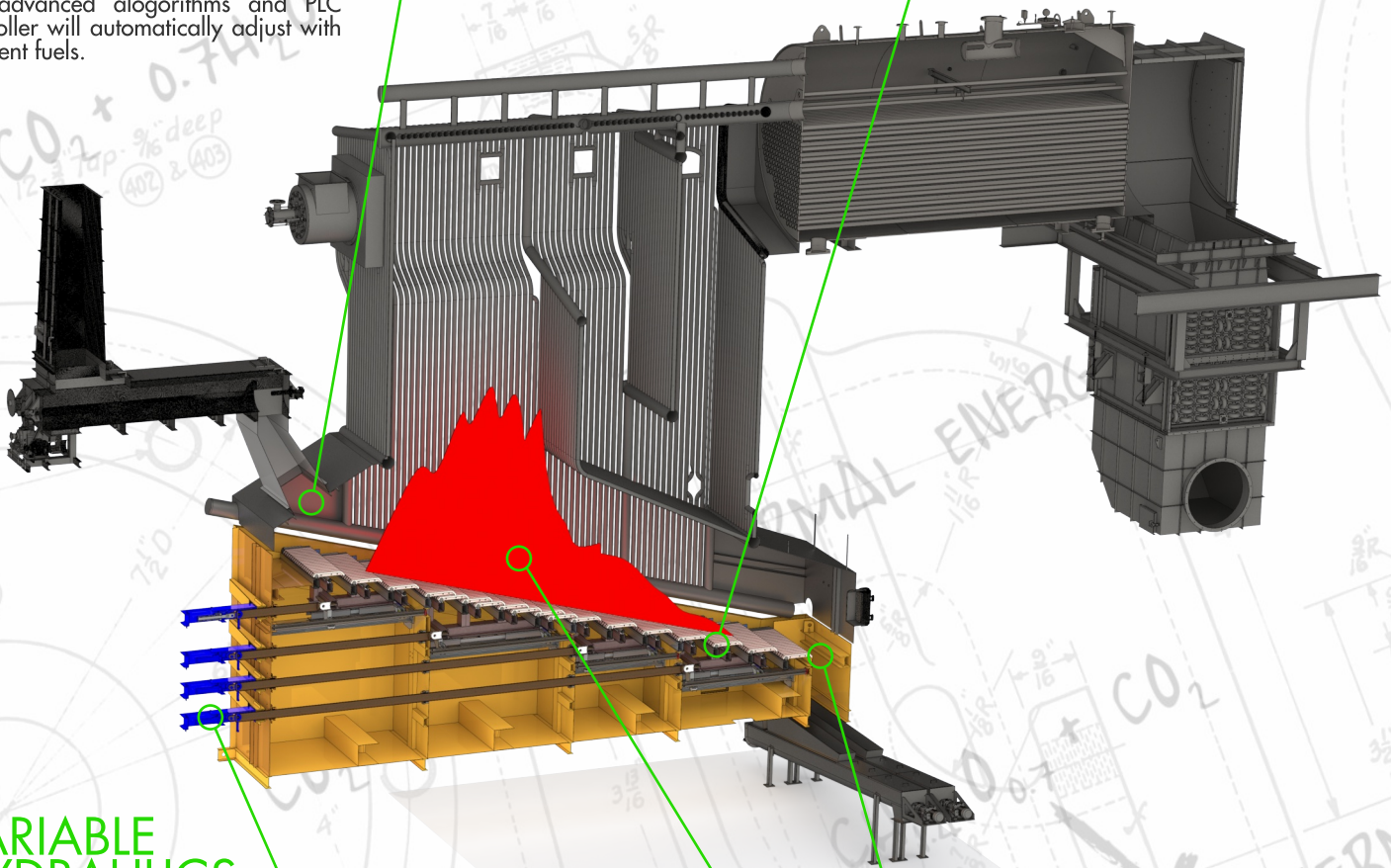
The intelligent hydraulic system can automatically detect and automatically adjust the system as components wear out, thus it can maintain very accurate fuel levels.

COMBUSTION ZONES

The unique Getabec control of every stage of the combustion process allows the full automatic adjustment for a large range of fuels.

GOOD ASH BURNOUT

High quality ash can be sold as a commodity, giving an extra source of income. This grate give high fidelity control to produce quality ash results.



COMBUSTION TECHNOLOGY

WOOD PELLETS & WASTE, RICE HUSK, BRIQUETTES, RDF & SRF, CORN COBS, CASSAVA, PALM WASTE, COAL AND MANY MORE ...

The **GETABEC Dynamic Step Grate** is designed with 4 main stages of fuel combustion management; drying, ignition, combustion, burn-out. Each area is controlled independently to ensure the correct fuel / air ratio while controlling the correct rotation of fuel for even combustion.

DRYING PHASE

The fuel is dried and the volatile evaporation begins ($< 350\text{ }^{\circ}\text{C}$)

PRE-IGNITION PHASE

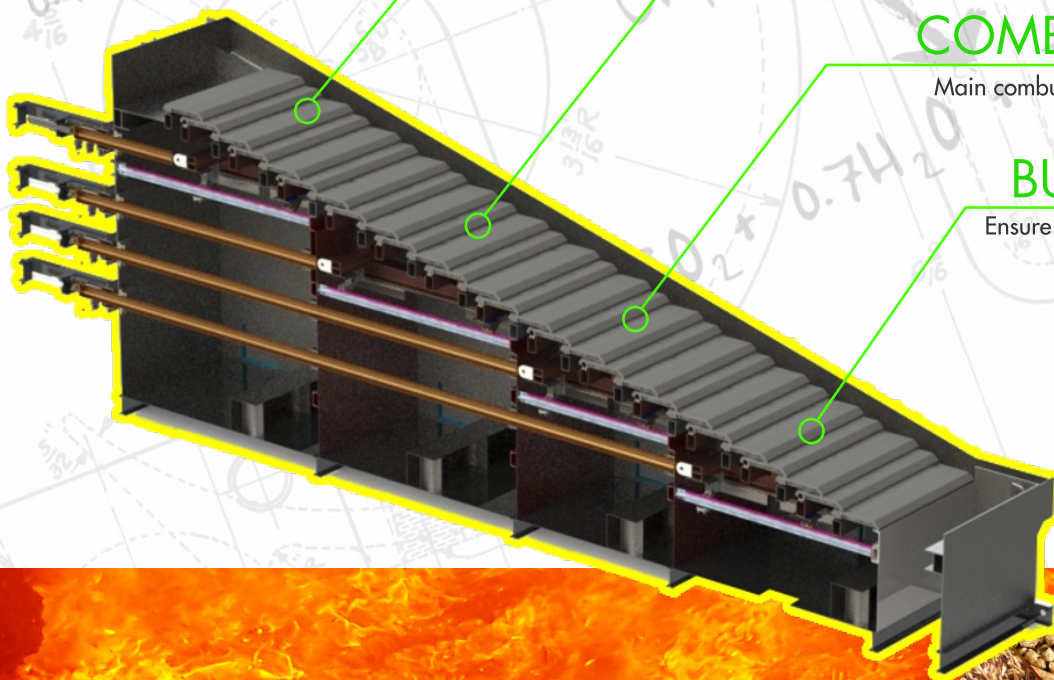
The gases start to ignite causing cascade volatile evaporation

COMBUSTION PHASE

Main combustion and emission formation control

BURN-OUT PHASE

Ensure good ash quality and high efficiency



MULTI-FUEL COMBUSTION

This fuel flexible combustion technology gives you a high degree of control over the types and mixtures of biomass and coal you can use.

ADVANTAGES OF DYNAMIC STEP GRATE

The **GETABEC Dynamic Step Grate** is an advanced technology that delivers high efficiency, good reliability and fuel flexible far beyond the capabilities of other technologies. You always remain flexible to burn the most cost effective fuels from the region, giving you full control over your budgets and suppliers.

- ✓ Very stable fire control - perfect for many industrial applications.
- ✓ Suitable for a very wide range of moisture, calorific value and size of fuel.
- ✓ No unburnt fuel loss under the grate.
- ✓ Unaffected by fuel and load fluctuations.
- ✓ Rapid combustion throughout the fuel layer.
- ✓ Easy automated and manual combustion management and fine tuning.
- ✓ Very low unburnt carbon in fuel due to complete burn-out process.
- ✓ No need for ash evacuation system under the grate.
- ✓ High efficiency due to pinpoint accurate control of each stage of combustion.
- ✓ High operating reliability
- ✓ Low maintenance requirements.
- ✓ Simple and rapid installation.
- ✓ Long lifetime with chromium alloy grate bars.

GLOBAL QUALITY | RELIABLE | EFFICIENT

AUTHORIZED MANUFACTURER

EUROPEAN NORM



DIN EN ISO 9001 : 2015
AD 2000



TUV NORD (Thailand) Ltd.



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QMS 005



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