

SAFE PROCESSING OF TOXIC WASTE MATERIALS

Obtaining pumpable mass for thermal utilization

TRANSFORMING
MATERIALS INTO VALUE



Efficiently processing toxic materials for incineration without endangering people and the environment:

This is a challenge – in particular for the technology used.

Powerful shredders and mixers operating under inert gas atmospheres are the key to overcoming this challenge. The technological know-how of BHS-Sonthofen extends to both the design and the construction of complete plants for the processing of toxic input materials for thermal recycling.

Advantages

- ✓ Different design versions address a wide range of feed materials
- ✓ Very safe process thanks to the option of inertization
- ✓ Easy-to-maintain machine designs
- ✓ Global service

ONE PROCESS – MANY POSSIBILITIES

Individual solutions address a broad range of customer-specific requirements.

1 Customized solutions

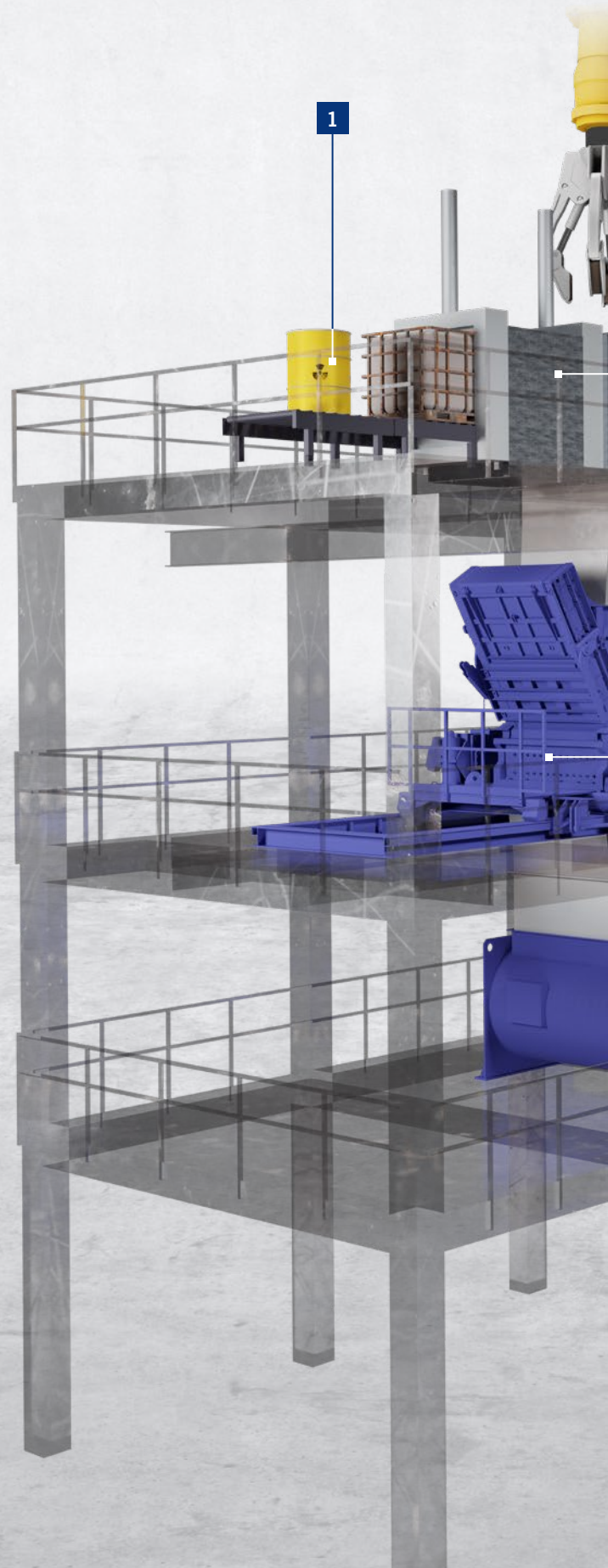
Depending on the requirements of the customer-specific feed material, plants can be manufactured in custom designs that perform different process steps. The feeding, shredding, mixing and pumping steps can be expanded or reduced depending on the customer's requirements.

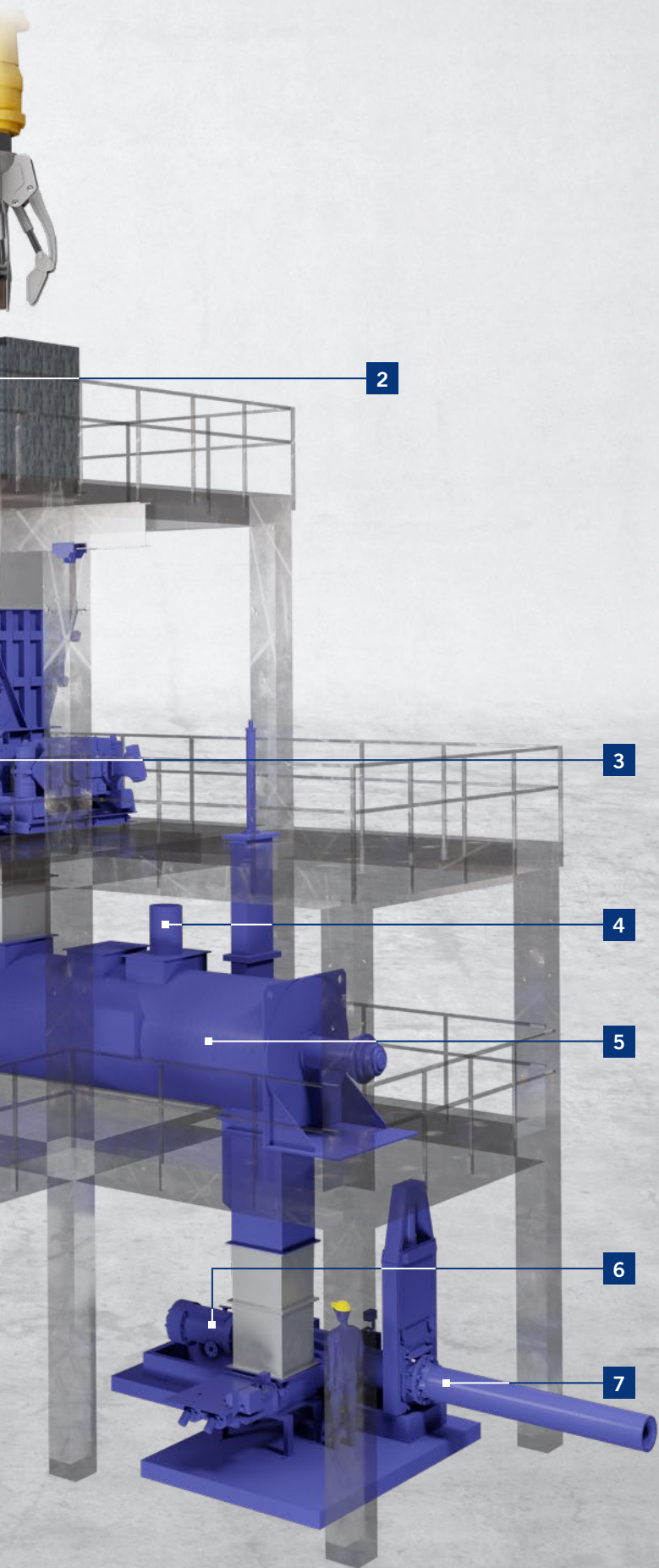
2 Transport

The automatic transport system, which can be made gas-tight on request, enables hazardous or toxic waste materials to be moved to the hydraulically locked feed chute or directly to the shredder – in any environment.

3 Crushing

Completely gas-tight system, equipped with explosion protection devices. The special tearing tools and the innovative plant configuration reduce streaking when shredding the feed material. The generously maintenance flap makes it easy to change and service the tearing tools without entering the inside of the machine. This also allows for parts that cannot be shredded to be removed manually with ease.





4 Additional filling

If desired, an individually installed intermediate step for the addition of toxic slurries and liquids is possible.

5 Mixing and homogenizing

The adjustable filling level allows a variable retention time of the mixed material in the mixer. This customizability guarantees a consistent, high-quality output material for varying feed or input materials. The unique geometry of the mixing blades delivers an optimized mixing result.

6 Pumps

The pumps are equipped with additional cutting tools, which helps to reduce downtime. The special pump design prevents clogging of the pipeline to the rotary kiln.

7 Feeding to the rotary kiln

Feeding of the final material for combustion and further processing in the customer's own rotary kiln.

MACHINES OR COMPLETE PLANTS

BHS-Sonthofen is your experienced partner.

In recent years, BHS-Sonthofen has implemented projects across the globe to help customers process toxic waste and dispose of it efficiently. In these projects, we either acted as a project partner for complete plants or as a supplier for the integration of individual machines.



Germany



The Netherlands



United States



中国石油

China



TSUNEISHI


Japan




HONGSHI

China

 Further information

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