

TIREX: The Fast-Track Solution for Clean and Efficient Bulk Material Handling





OUTLINE

- Company Overview
- Machine Presentation
- Case Study: Customized Solution
- Additional Case Studies
- Benefits for the Customer

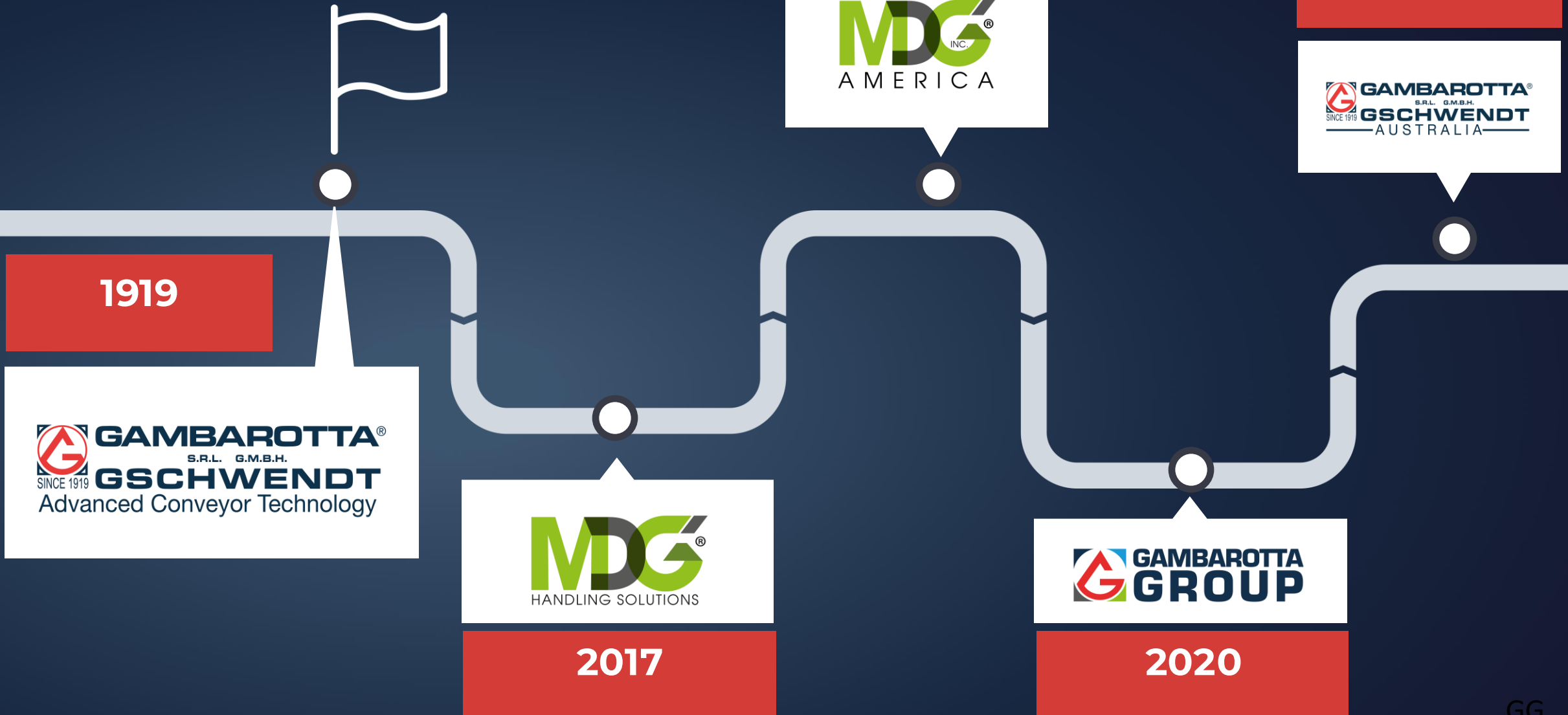
► Company Overview



**GAMBAROTTA
GROUP**



▶ TimeLine



► Where we are

TRENTO (ITALY)

Northern Italian city near Alps

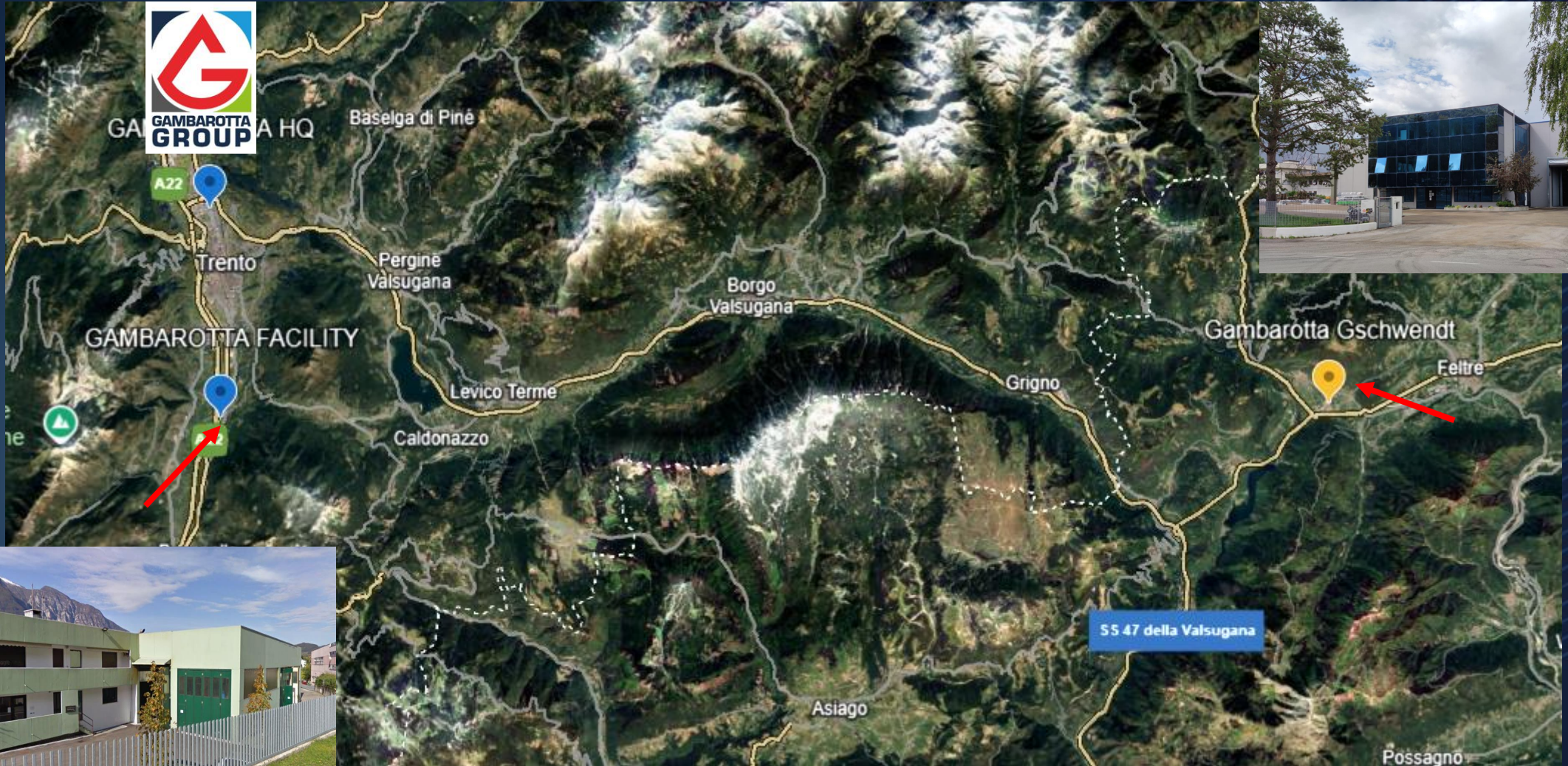
3 hours from Milan / Munich

2 Hours from Venice



► Where we are

PRODUCTION FACILITY 2



PRODUCTION FACILITY 1

E.U. INTERNAL WORKSHOP CAPACITY

- ▶ **Location:** Fonzaso (Italy), Trento (Italy)
- ▶ **Total area** (for covered and uncovered areas) (m²) $7,500+5,800 = 13,300$ m² (143,500 ft²)
- ▶ **Covering area** (m²) 35,000
- ▶ Maximum single crane lifting capacity (tons) 20 Ton / each hoist
- ▶ Annual combined capacity (tons) 10,000 Ton/y
- ▶ **For equipment or part of equipment:** Core parts, steel components and structures



TRENTO WORKSHOPS (ITALY)
Total area 5,800 m2 (62500 ft2)



FONZASO WORKSHOPS (ITALY)
Total area 7,500 m2 (81,000 ft2)



► Production Facility 1



TRENTO WORKSHOPS (ITALY) - Total area 5,800 m² (62500 ft²)

No. 20 personnel

Production: 300 Ton/month

Internal Paint shop and Sandblasting

► Production Facility 1



► Production Facility 2



FONZASO WORKSHOPS (ITALY) - Total area 7,500 m² (81,000 ft²)

No. 45 personnel

Production: 500 Ton/month

Internal Paint shop and Sandblasting

► Production Facility 2

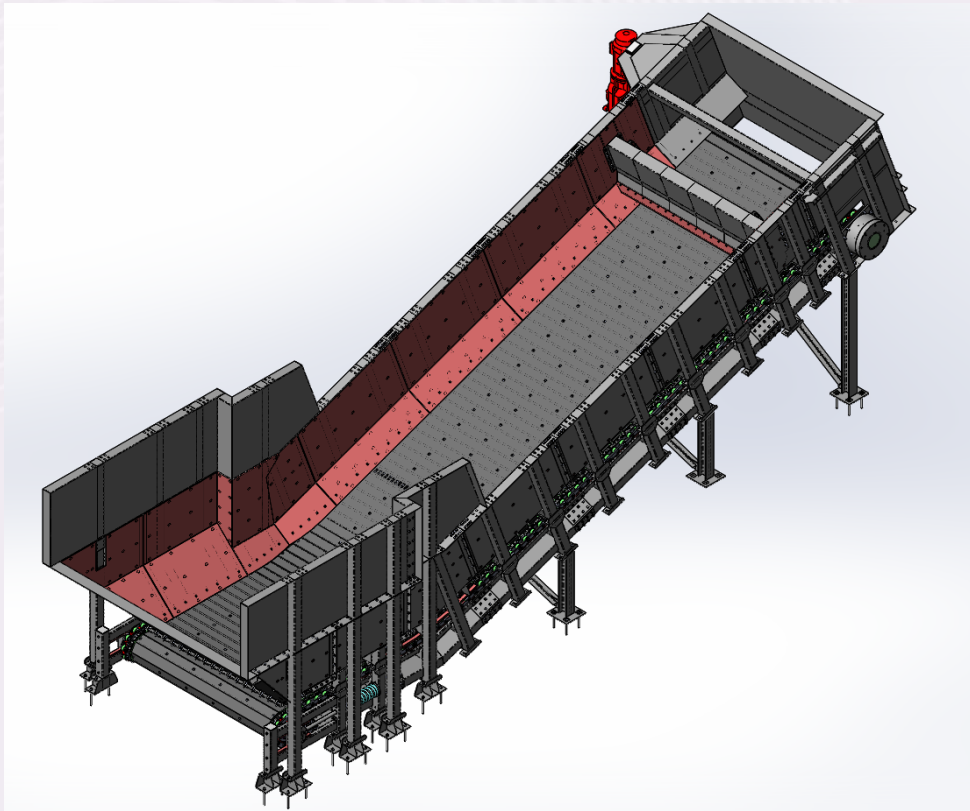


► Production Facility 2

Internal Paint shop
and Sandblasting



▶ Machine presentation



▶ Trucks Surface feeder – TRX T-REX

- ▶ Compact design and **high capacity: up to 1500 m³/h**
- ▶ Easy assembly and maintenance
- ▶ Custom buffer **storage capacity: up to 400 m³**
- ▶ Internal parking grid for trucks
- ▶ Optional: boom feeder for ship loading
- ▶ Flexible on board automation (radar sensors for truck presence and material layer check)
- ▶ Mobile or static version



► Mechanical equipment

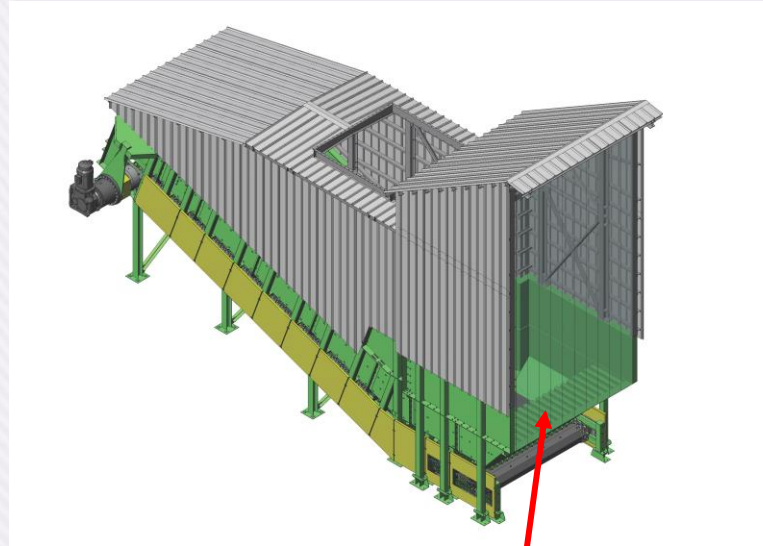
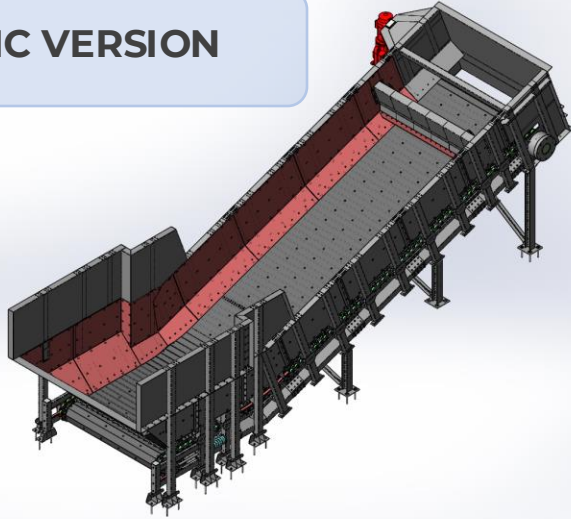
The complete range for bulk Materials lifting for:

- Clinker
- Gypsum
- Clay
- Raw meal
- Coal
- Pet coke
- Limestone
- Additives
- Fertilizers
- Alternative fuel
- Wooden chips
- Potash



▶ Trucks Surface feeder – TRX T-REX

STATIC VERSION

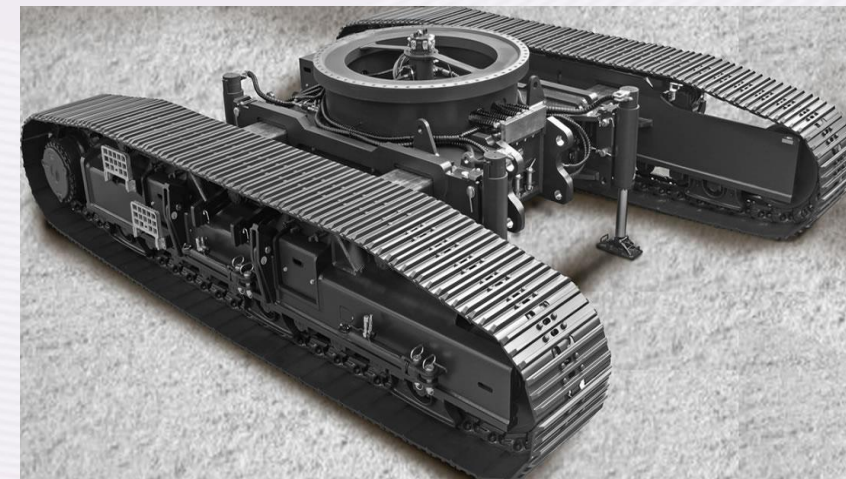


MOBILE VERSION



Trucks parking grid

Application fields
Quarry and terminal handling
application
Fixed or mobile version
Special cover for dedusting system



▶ Trucks Surface feeder – TRX T-REX



Custom storage capacity



Trucks parking grid



Interchangeable liners

▶ Trucks Surface feeder – TRX T-REX - Clinker



BUCKET ELEVATOR DIRECT FEEDING

▶ Trucks Surface feeder – TRX T-REX – Alternative Fuels

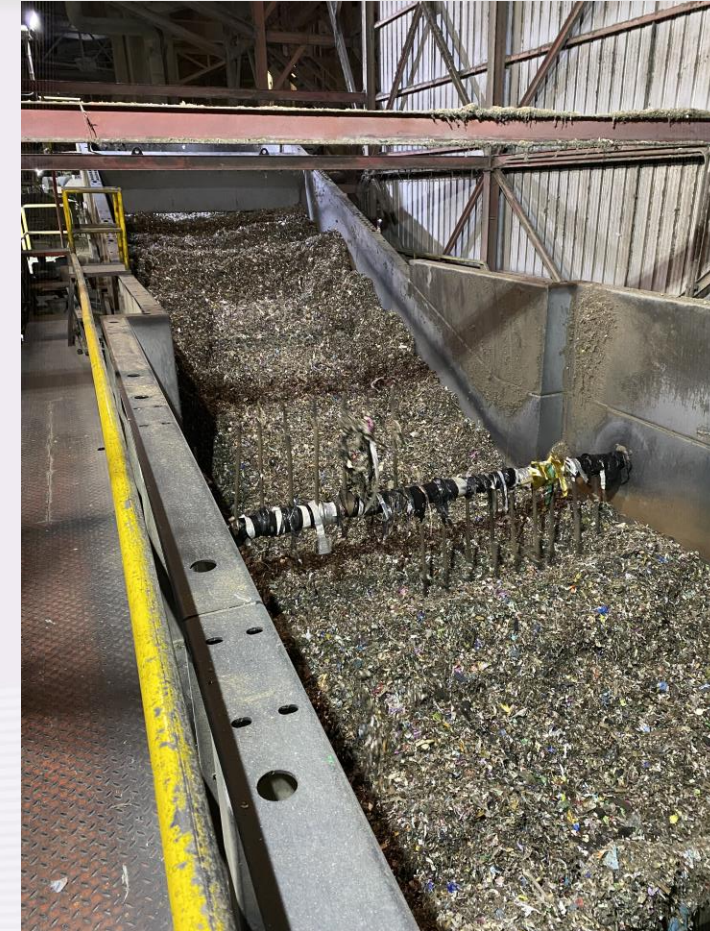
RDF Receipt and Feeding head



Higer Custom storage capacity



▶ Trucks Surface feeder – TRX T-REX – Alternative Fuels



**BUCKET ELEVATOR DIRECT
FEEDING**

► Surface feeder – TRX T-REX (MEXICO)- Limestone/Clay



► Surface feeder – TRX T-REX (MEXICO)- Limestone/Clay



► Surface feeder – TRX T-REX (SLOVAKYA) - Limestone



▶ Surface feeder – TRX T-REX (SLOVAKYA) - Limestone



▶ Surface feeder – TRX T-REX (SLOVAKYA) - Limestone



► Surface feeder – TRX T-REX (COLOMBIA) – Clinker



▶ Surface feeder – TRX T-REX (ARGENTINA) – Clinker 600 TPH



▶ Surface feeder – TRX T-REX Chattanooga (TN) – Clinker 200 TPH



▶ Surface feeder – TRX T-REX (FRANCE) – Phosphates 250 TPH

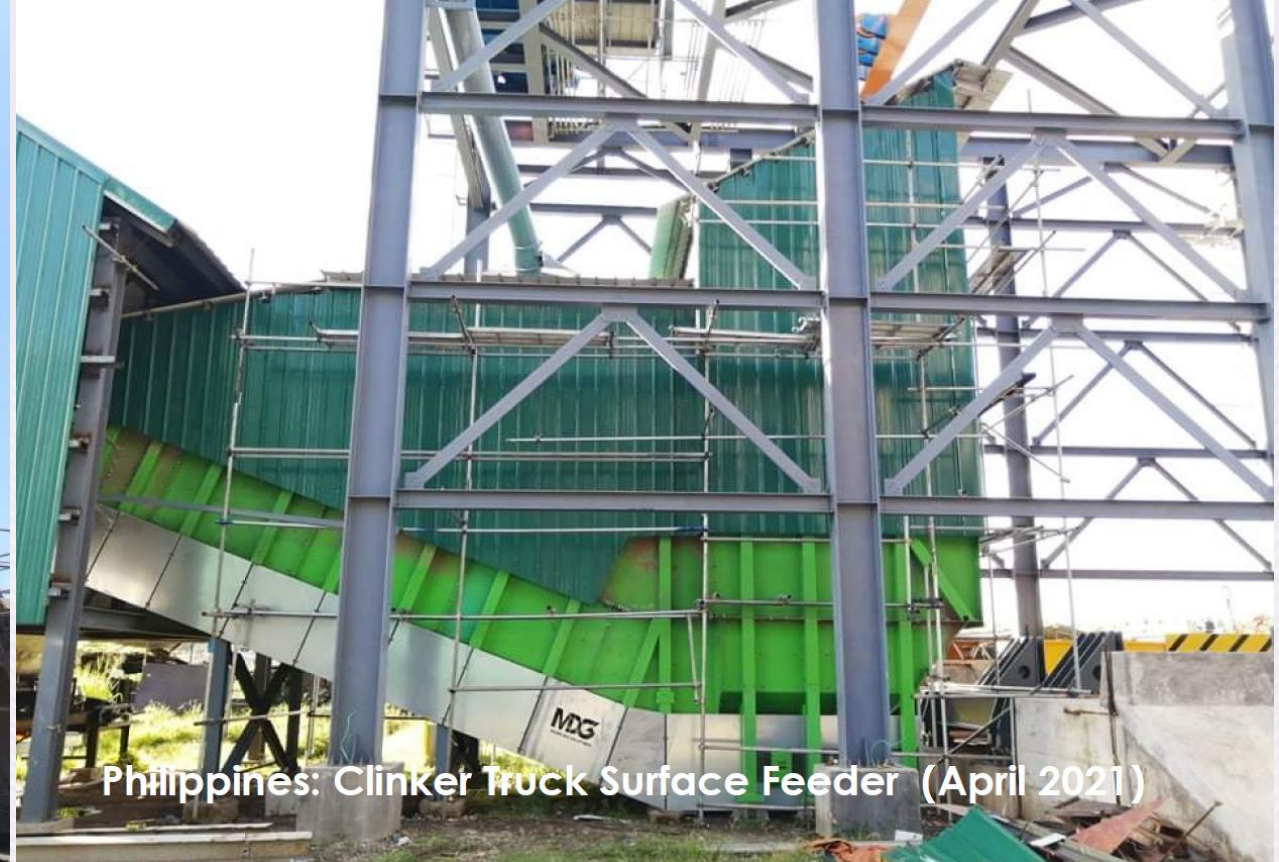


► Surface feeder – TRX T-REX – Clinker

Algeria: Clinker Truck Surface Feeder (2022)



Philippines: Clinker Truck Surface Feeder (April 2021)

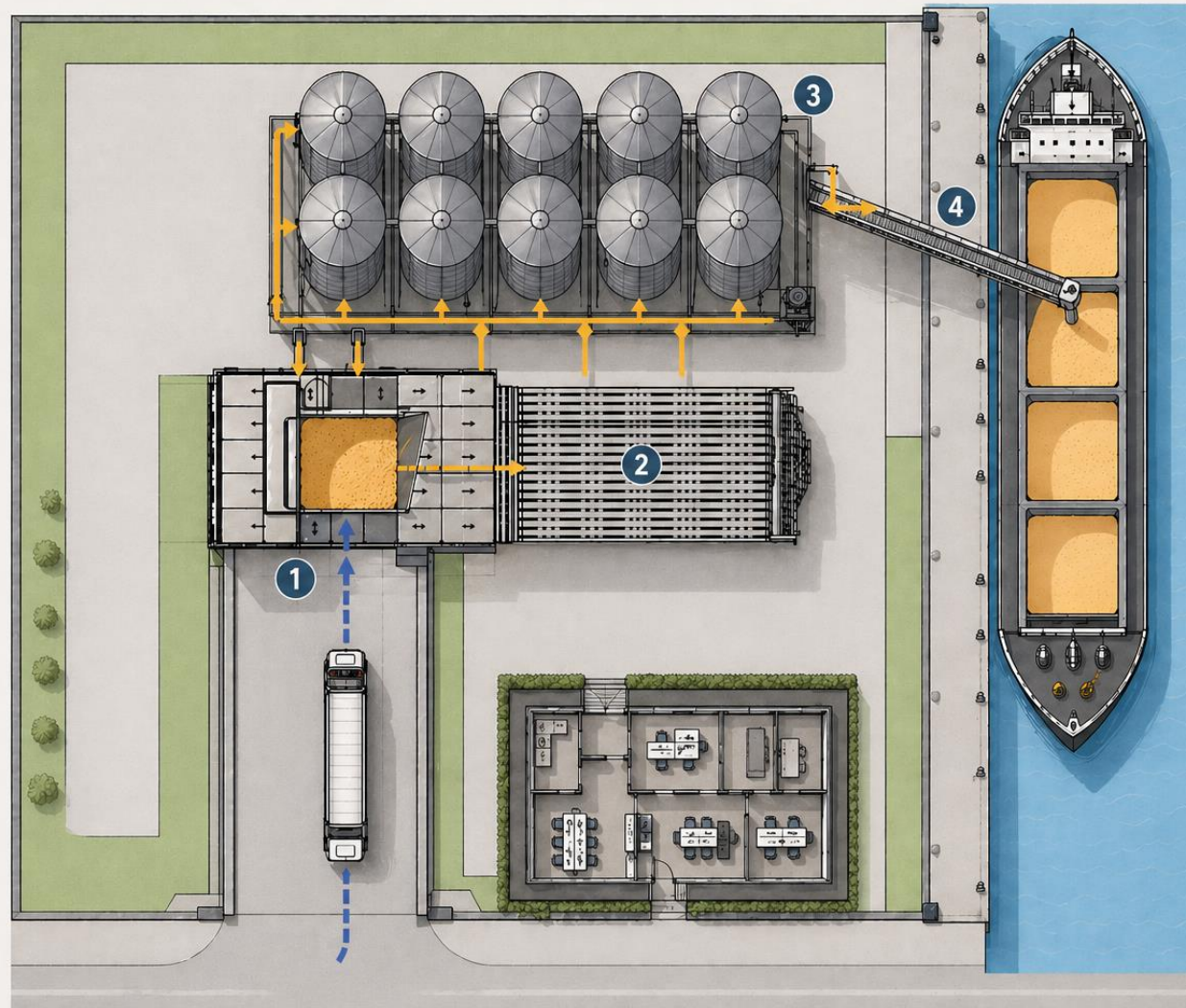


▶ Surface feeder – TRX T-REX – 400 tph (2x Pet Coke / 2x Sulphur's pellets)

**No.4 Surface feeders – TRX T-REX (OMAN)
2x Pet Coke 400 Tph + 2x Sulphurus pellets 400 Tph**



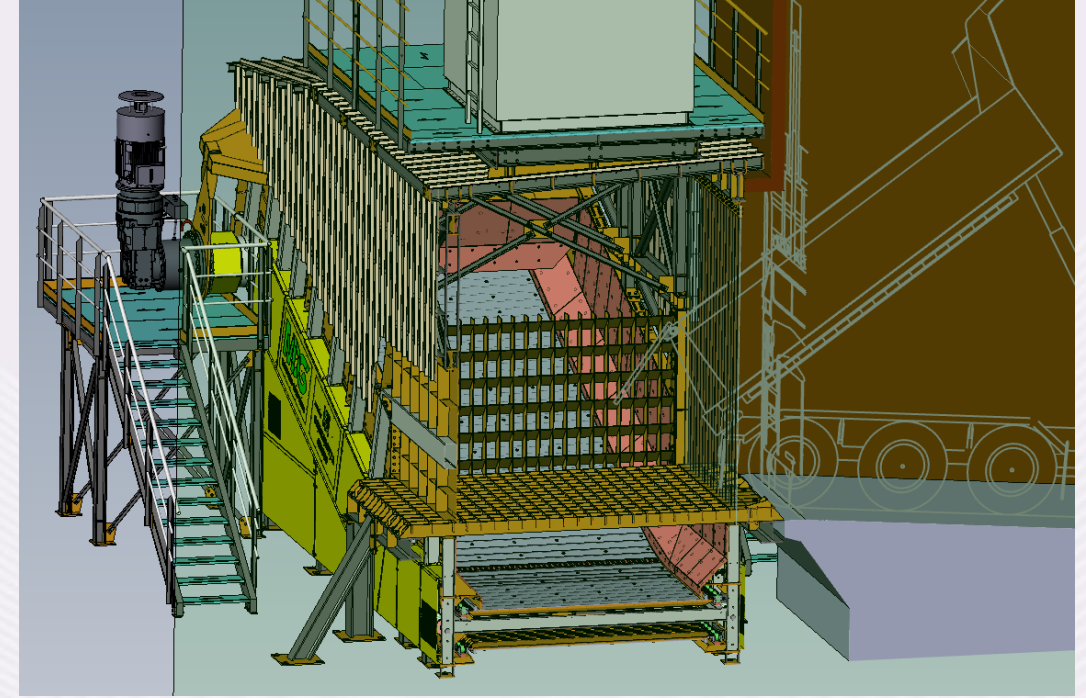
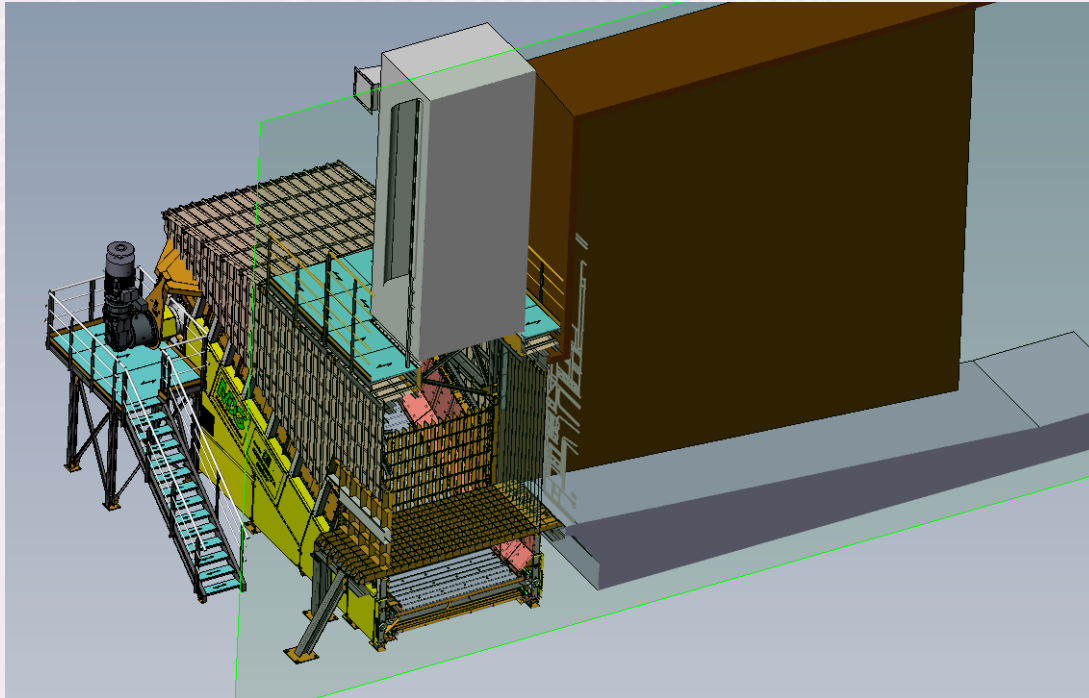
► Surface feeder – TRX T-REX (Houston Port – TX) – Clinker



- 1 TRUCK UNLOADING STATION
- 2 TIREX
- 3 STORAGE SILOS
- 4 SHIP LOADING SYSTEM

- TRUCK ROUTE
- MATERIAL FLOW
- STRUCTURES
- ROADS & GREEN AREAS
- WATER

► Surface feeder – TRX T-REX (Houston Port – TX) – Clinker



► Surface feeder – TRX T-REX (Houston Port – TX) – Clinker



► Surface feeder – TRX T-REX (Houston Port – TX) – Clinker



▶ Additional Case Studies

- **Pivoting Grizzly Grid**
- **Additives discharge stations**
- **Grizzly Grid screening**
- **Discharge Paddle Breaker**
- **Mobile feeders**

► Surface feeder – TRX T-REX – 150 tph (Slag)



▶ Surface feeder – TRX T-REX – 150 tph (Slag)

Tapojarvi (Italy): Slag and Pozzolana - Pivoting loading
Grizzly Grid for Trucks



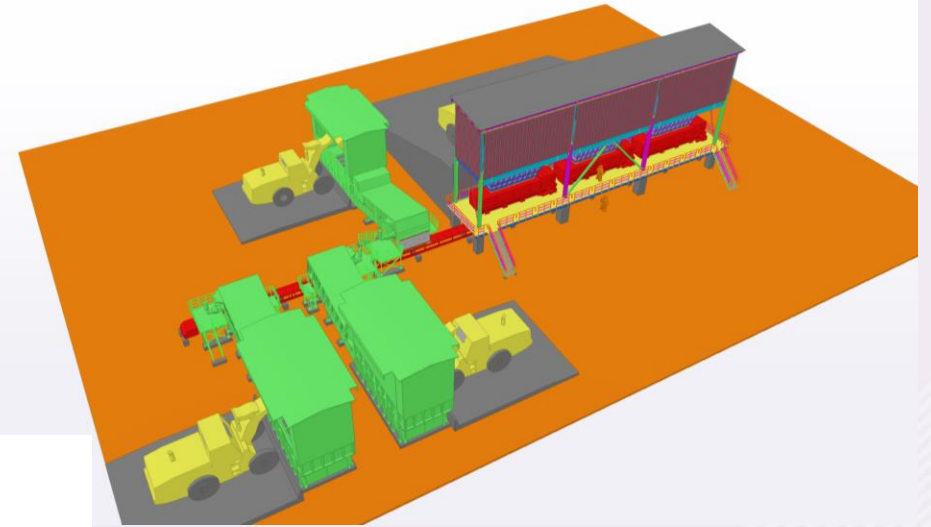
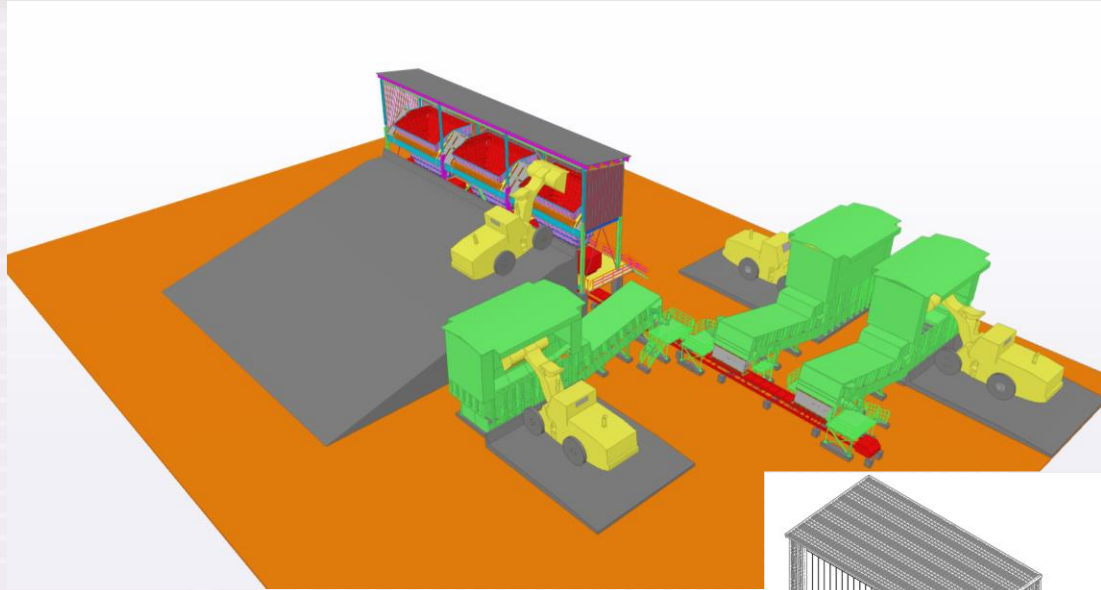
**Pivoting loading
Grizzly Grid for Trucks**

▶ Surface feeder – TRX T-REX – 150 tph (Slag)



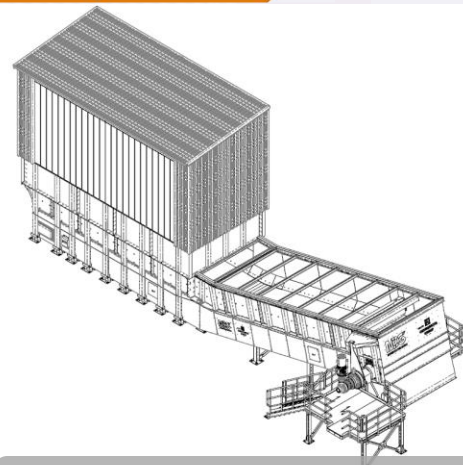
**Pivoting Grizzly Grid
In Operation**

EP Project/Titan LLC Florida (US)



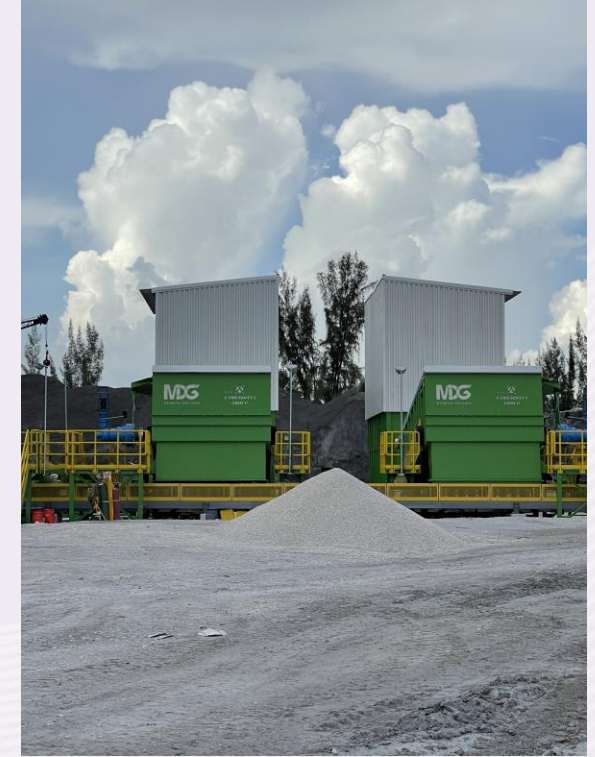
US: Additives discharge stations

3 x 200 TPH Truck surface feeders (Gypsum, Limestone)
3 x 150 TPH Apron feeders (Clinker, Pozzolan, Clay) + multiple hoppers



Trucks surface feeder

▶ EP Project/Titan LLC Florida (US)



Trucks surface feeders

▶ EP Project/Titan LLC Florida (US)

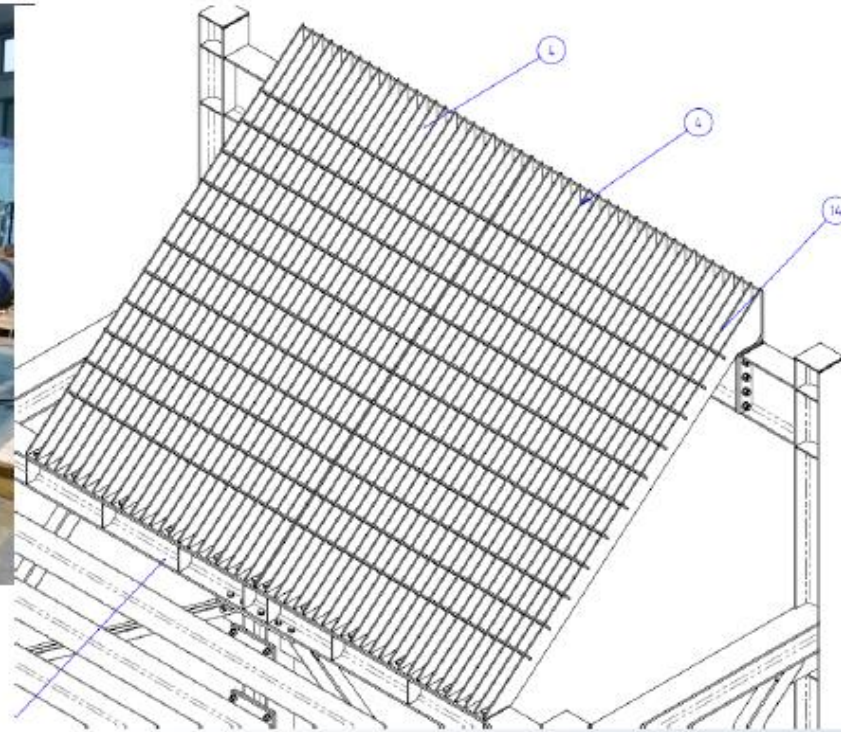


Trucks surface feeders

► Surface feeder – TRX T-REX ACCESSORIES



DISCHARGE
PADDLE BREAKER

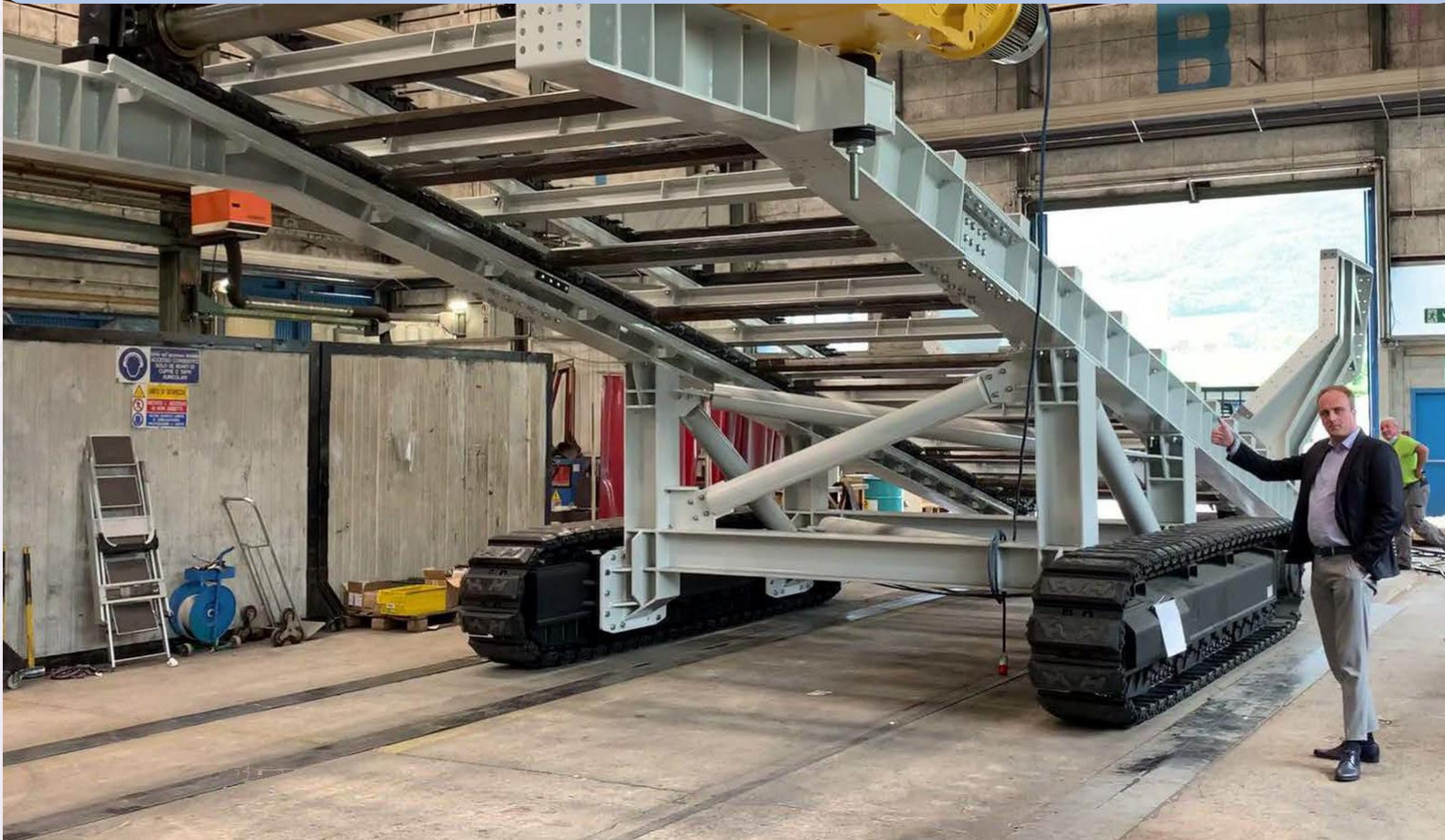


"GRIZZLY GRID" SCREENING
DEVICE

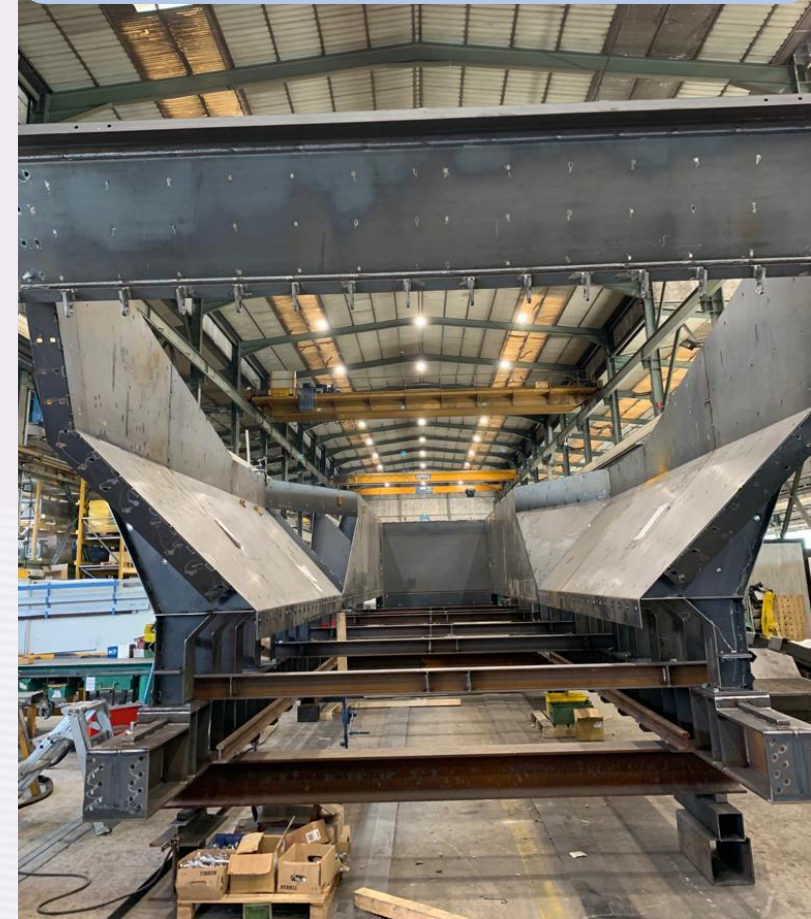


► Mobile feeders (1500 TPH) – Duqm (Oman)

Oman: Run test of mobile trucks surface feeder (1500 TPH)



Oman: Chassis of mobile trucks surface feeder (1500 TPH)



► Mobile feeders (1500 TPH) – Duqm (Oman)



2x unit Pet coke
2 x units Sulphur's

► Benefits for the Customer

- **Wide receiving hopper for multiple materials**
- **Storage and dosing**
- **Dust free**
- **Sealed material handling with no spillage**
- **Minimal civil works (reduce infrastructures)**
- **Outstanding flexibility**

THANK YOU



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