

TECHNICAL DATASHEET

Equipment: Industrial Single-Pass Rotary Dryer
Manufacturer: ALLGAIER Process Technology GmbH (Mozer — Germany)
Model: Mozer TT D 90/7 OB A FG (Direct / Co-current)
Year of Manufacture: 2009
Condition: Used — As New (Only 200 operational hours from commissioning)

1. Technical Overview & Clarification

This document compiles the formal manufacturer specifications and certified dimensional geometry for the **ALLGAIER-MOZER TT D 90/7 OB A FG** rotary dryer. *Correction Note:* Previous marketing materials erroneously classified this asset as a 'double-shell/double-wall' system due to model nomenclature misinterpretation. Factory engineering records confirm this unit is a premium **single-pass direct co-current (Equicorrente)** heavy-duty rotary drum dryer designed for high-abrasion industrial aggregates and minerals.

2. Process & Thermodynamic Performance

Parameter Description	Factory Value / Specification
Target Material	Limestone / Quartz Sand / Cava Inerts
Material Grain Size	0 - 50 mm
Wet Material Feed Rate	20,729 kg/h
Initial Moisture Content	4.0%
Dry Material Output Capacity	20,000 kg/h
Final Moisture Content	0.5%
Water Evaporation Rate	729 kg/h
Bulk Material Density (Average)	1,500 kg/m³
Specific Heat Capacity	0.88 kJ/(kg*K)
Ambient / Inlet Material Temp.	15°C / 10°C
Dried Material Discharge Temp.	75°C (+/- 10°C)
Saturated Exhaust Gas Temp.	110°C (+/- 10°C)
Exhaust Gas Dew Point	65°C
Exhaust Gas Volumetric Flow at Filter	11,340 m³/h eff.

3. Mechanical & Structural Dimensions

Component / Metric	Dimensional Specification (mm)
Nominal Drum Diameter	Ø 1,580 mm (Outer structural envelope: Ø 1,585 mm)
Cylindrical Drum Length	7,000 mm
Drum Shell Thickness (Boiler Steel)	12 mm (Manganese-stabilized aluminum-killed steel)
Internal Lifters / Shovels Thickness	10 mm heavy-wear execution
Inlet Housing Feeding Hopper Width	550 mm width / 300 mm centerline offset
Exhaust Duct Connection to Dust Filter	DN 500 (Nominal Diameter 500 mm flange)
Square Discharge Flange Grid (Page 2)	3 x 154 mm = 462 mm matrix / 504 mm total outer grid width
Discharge Concentric Flanges	Ø 504 mm, Ø 551 mm, Ø 584 mm (Fori/holes Ø 13 mm)
Required Grout Bed Thickness	25 mm (For sub-frame level alignments)

4. Civil Engineering & Foundation Load Data

All permanent structural foundations must be supplied by the customer according to the following official engineering values. Total longitudinal installation footprint measures **7,765 mm**.

Foundation Node / Group	Type	X (kN)	Y (kN)	Z (kN)	Anchor / Fixing Spec
F1: Inlet Housing	Static Dynamic	- -	15 -	- -	RGM 16x190 threaded rods with RM16 chemical mortar cartridges
F2: Roller Station	Static Dynamic	- -	65 130	- -	Baseplates 180x180 mm, bolt centers 120 mm, holes Ø 19 mm
F3: Outlet/Exhaust	Static Dynamic	- -	20 -	- -	Structural anchor bolts (provided by Allgaier)
F4: Drive Unit	Static Dynamic	- -	55 110	- -	M24x320 DIN 529B stone hooks (Steinschrauben), min embedment: 300mm

5. Thermal System & Control Automation

System Component	Technical Feature / Capacity
Burner Manufacturer & Type	WEISHAUPT (Germany), Type G, ZMD execution (Fully Automatic)
Required / Maximum Thermal Power	1,050 kW Required / 1,360 kW Max Burner Rating
Dual Fuel Flexibility	Dual-cabled and panel-switchable for Methane (Natural Gas) & LPG
Max Potential Fuel Consumption	106 Nm³/h at peak thermal rating
Gas Valve Train Assembly	Full nominal size line, gas filter, pressure regulator, double safety magnetic valve, operating pressure 100 mbar
Main Drive Power	11.0 kW heavy-duty motor with direct shaft-mounted hollow shaft gearbox
Burner Fan Motor Power	2.6 kW integrated high-pressure fan
Thermal Control Loop	WEISHAUPT KS 90 3-point controller, input Pt-100 (4-20mA, 0-150°C)
Safety Interlocking Limiters	PMA TB 40 Exhaust Air Temperature Limiter for baghouse filter thermal protection (Pt-100 sensor input)

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Asset Status: Intact, fully assembled on-site, ready for immediate engineering audit, dismantling, and transport logistics.