TDD TECHNIC

PRODUCT CATALOGUE · 2026

THC SERIES

HAMMER CRUSHER

A hammer crusher with a **hydraulically opening housing** for medium-soft materials.



HIGH REDUCTION IN A SINGLE STAGE

The THC Hammer Crusher is designed for crushing medium-soft materials such as limestone, calcite, dolomite, gypsum and coal. It delivers a high reduction ratio in a single stage and produces a feed size suitable for downstream grinding lines.

The heavy rotor and hammers, turning at high peripheral speed, break the material through impact and attrition. The adjustable crushing gap allows the product size to be set according to process requirements.

Its key advantage is the hydraulically opening housing: hydraulic cylinders open the upper housing quickly, giving direct and safe access to the rotor, hammers, breaker plates and wear liners. Hammer changes and routine maintenance are carried out without a crane or heavy disassembly, reducing downtime and maintenance cost.

HYDRAULIC OPENING HOUSING



Direct access to the rotor, hammers and wear liners

KEY FEATURES

01

HYDRAULIC OPENING HOUSING

Hydraulic cylinders open the upper housing quickly; internal access without a crane.

02

HIGH REDUCTION RATIO

High reduction in a single stage; a feed size suited to grinding lines.

03

ADJUSTABLE PRODUCT SIZE

Product size control of 0 – 25 mm through the adjustable crushing gap.

04

REPLACEABLE LINERS

Long service life with wear-resistant, replaceable liners.

05

EASY MAINTENANCE

Fast hammer changes and liner checks; less downtime, lower maintenance cost.

06

INSPECTION DOOR

Quick daily checks through the inspection door on the housing.

TECHNICAL SPECIFICATIONS & MODELS

MODEL OPTIONS

PARAMETER	THC-090100	THC-090120	THC-090150
Rotor diameter (mm)	900	900	900
Rotor width (mm)	1000	1200	1500
Feed opening W × H (mm)	1000 × 550	1200 × 550	1500 × 550
Max. feed size	≤ 250 mm	≤ 250 mm	≤ 250 mm
Product size (adjustable)	0 – 25 mm	0 – 25 mm	0 – 25 mm
Capacity (limestone)*	60 – 80 t/h	75 – 100 t/h	95 – 125 t/h
Motor power	90 kW	110 kW	132 kW
Rotor speed	750 – 950 rpm	750 – 950 rpm	750 – 950 rpm
Housing opening system	Hydraulic	Hydraulic	Hydraulic
Approx. weight (without motor)	6.5 t	7.5 t	9 t
Overall dimensions L × W × H (mm)	2100 × 2300 × 2000	2100 × 2500 × 2000	2100 × 2800 × 2000

* Capacities are approximate values for medium-hardness limestone; actual output varies with material hardness, moisture, feed size and target product size. Model code: the first three digits give the rotor diameter and the last three the rotor width, in cm (e.g. THC-090120: Ø900 mm × 1200 mm).

APPLICATIONS

- Limestone, calcite and dolomite
- Gypsum
- Coal
- Feed preparation for grinding lines

WORKING PRINCIPLE

Material enters the crushing chamber through the feed opening. Hammers on the heavy rotor, turning at high peripheral speed, break the material by impact; particles striking the breaker plates are reduced further by impact and attrition. The adjustable crushing gap sets the product size, and material that reaches the target size is discharged below the crusher.

Serves as the **primary crushing stage** in micronized grinding plants, preparing the feed size for the grinding line.

WHY TDD TECHNIC

ENGINEERING THE MICRON
UNDER ONE ROOF.

01

ULTRAFINE LEVEL

Original machine design and manufacturing at the ultrafine particle-size level in Türkiye.

02

SINGLE-SOURCE SOLUTION

Engineering, machine manufacturing and spare-part supply under one roof.

03

SPARE PARTS & SERVICE

Spare-part supply and on-site service for hammers, liners and all wear parts.

LET'S BRING YOUR PROJECT TO LIFE

Let's assess your needs with our expert team — request a quotation. →

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