

PRALL-TEC



YOUR MATERIAL

OUR PTM-2100

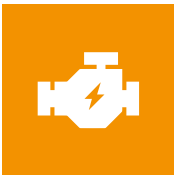
TRACK-MOUNTED VERTICAL IMPACT CRUSHER
WITH PTM-MAG'IMPACT®

Mobile recycling in a new dimension

Main features of the PTM-2100

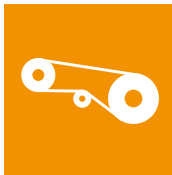


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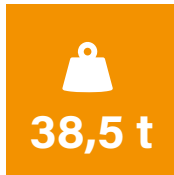
**John Deere
Tier 4 (5 ready)
300 kW**

2



**Frequency converter
Drive with 200 kW**

3



**38,5 t
Weight of the
plant**

4



**Automatic
task control**

5



**Mag'Impact®
vertical crusher**

6



**Task
performance
per hour**

The goal of the machine is uncompromising performance in recycling applications, as well as maximum durability and power in heavy-duty operations involving reinforced concrete, demolition waste, and other difficult-to-process materials – all while maintaining a low operating weight and high flexibility.

The impact mill is equipped with fully hydraulic impact aprons that feature a retraction travel of 280 mm. It is installed at the discharge end of a vibrating feeder trough

lined with Hardox wear plates and is driven by a rotor with 200 kW of power.

All of these components – combined with our expertise in stationary plant engineering – make it arguably the most powerful track-mounted impact mill in its class. Additionally, there is the option to expand this recycling impact mill into an efficient secondary crusher by integrating a grinding path.

Prall-Tec PTM-2100

Technical Specifications

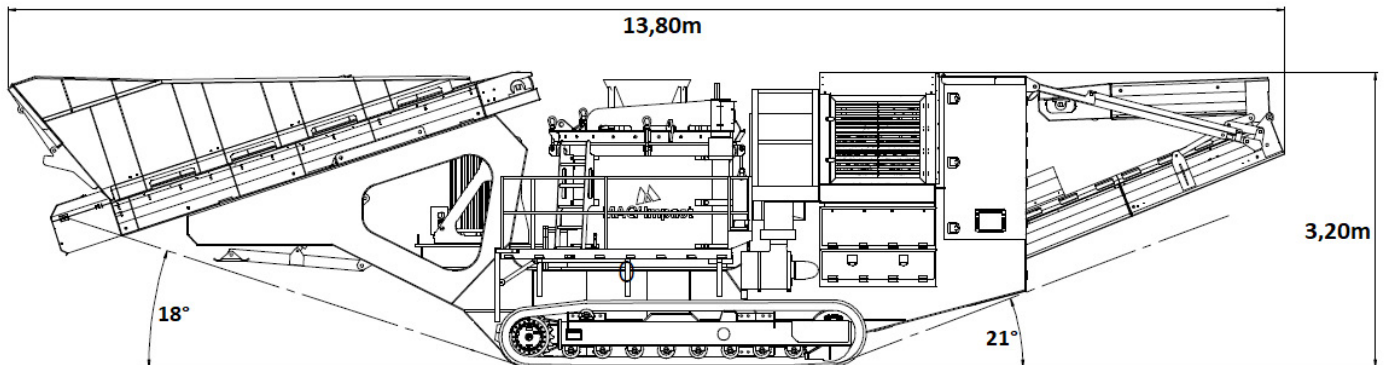


DIMENSIONS

- › Length: 13.80 m (Transport)
- › Width: 3.00 m
- › Height: 3.20 m
- › Discharge Height: 3.35 m
- › Weight: 38.5 t

DRIVE MOTOR

- › John Deere Tier 4 (5 ready)
- › Displacement: 9.0 liters
- › Power: 300 kW
- › Speed: 1600 rpm
- › Clutch: Transfluid



ELECTRICAL SYSTEM

- › Generator: 450 kVA
- › MagImpact drive: 200 kW
- › Frequency converter: 200 kW (Danfoss back channel cooling)
- › Conveyor Drive System: Drum motors controlled via frequency inverter



PLANT CONTROL SYSTEM:

- › Fully automated IFM plant control
- › 12" Touch Display
- › Remote Service Module
- › Wi-Fi Module
- › Radio Remote Control



Experience Meets Innovation

The Company Prall-Tec



Prall-Tec GmbH, headquartered in 49525 Lengerich (Westphalia), was founded in May 2007 by Ralf Teepe, who brings over 40 years of experience in the construction of recycling machinery. This extensive expertise, combined with a constant drive for innovation, is reflected in every machine built by Prall-Tec GmbH.

The company focuses on the construction and refurbishment of impact mills, hammer mills, jaw crushers, and shredders. In addition, Prall-Tec trades in mobile screening systems, wheel- and track-mounted conveyors, used machinery, and spare parts — for both its own equipment and third-party systems.

At Prall-Tec, success is not defined by company size, but by specialized technical knowledge and decades of experience in impact crusher and plant engineering — that's what truly sets us apart.

Thanks to the tireless innovation of managing directors Ralf and Frederik Teepe, the company has built a deep well of application and process engineering expertise, which is fully available to our customers today.

All machines are independently planned, engineered, and entirely manufactured in-house at the company's Lengerich site.

Track-Mounted PTM-2100

Key Advantages of the PTM-2100 MAG'Impact®



Flexible Adaptation of the Processing Configuration

Versatile combinations of crushing tool configurations allow flexible adaptation of your processing setup to changing requirements.

- Rotary tables equipped with different types of throw plates and customizable configurations.
- Throw plates available in different designs.
- Impact plates with adjustable or different impact angles.
- Rock-on-Rock impact ring designed for versatile recycling applications.
- Wear liners are available in different materials and designs, tailored to the specific properties of the feed material.

Final products of the highest quality

Covering everything from sand and gravel to asphalt and tar-containing road demolition material

- Crushing by pure impact ensures excellent cubical grain shape in high-quality aggregates and crushed sand, independent of feed mix and processing volume.
- The specially designed crushing chamber, developed through extensive studies, ensures that all particles hit the impact plates with maximum kinetic energy – achieving high reduction rates and excellent fracture surface quality.

Automatic plant control

Everything at a Glance



A 12" touch screen provides full control of the plant through an intuitive and user-friendly interface, making daily operation much easier.

The main screen provides a clear overview of all critical crusher data. Submenus like "Travel Mode," "Blow Bar Change," and "Language" offer intuitive navigation for extended functionality. The system was designed for maximum user-friendliness — even with complex machine technology.

With a single push of a button, travel mode is engaged — the control system manages the entire process. Functionality remains unaffected even under heavy soiling, thanks to the use of robust components that are resistant to high-pressure cleaning.

Once started, the system automatically regulates the feed rate. The operator simply feeds the material. Important parameters like feed speed can also be adjusted conveniently via remote control.

MAG'Impact®

Overview – Stationary and Track-Mounted Versions



2100	Feed Size:	Throughput:	Power (kW):	Weight:
	80 mm	80-160 t/h	90-200 KW	11,5 t
2100 Sand	Feed Size:	Throughput:	Power (kW):	Transport Weight:
	40 mm	80-160 t/h	90-200 KW	11,5 t
PTM 2100	Feed Size:	Throughput:	Power (kW):	Transport Weight:
	80 mm	80-160 t/h	200 KW	38,5 t
PTM 2100	Feed Size:	Throughput:	Power (kW):	Transport Weight:
	40 mm	80-160 t/h	200 KW	38,5 t

MAG'Impact®

Crushing and Separation

Crushing (Impact Plate Ring)

- Feed size up to approx. 80 mm
- Throughput capacity up to 160 t/h
- Crusher equipped with impact plates

Key Features

- Asphalt can be processed into premium-grade aggregates
- Enhanced efficiency and superior end product quality

Cleaning (Material Ring - ROR)

- Feed size up to approx. 80 mm from impact crusher or milled material
- Throughput capacity up to 160 t/h
- Crusher equipped with autogenous Rock-on-Rock impact ring
- Bitumen accumulates in the 0–8 mm (or 0–4 mm) fraction
- The 8–22/32 mm fraction is over 99% clean and free from bitumen

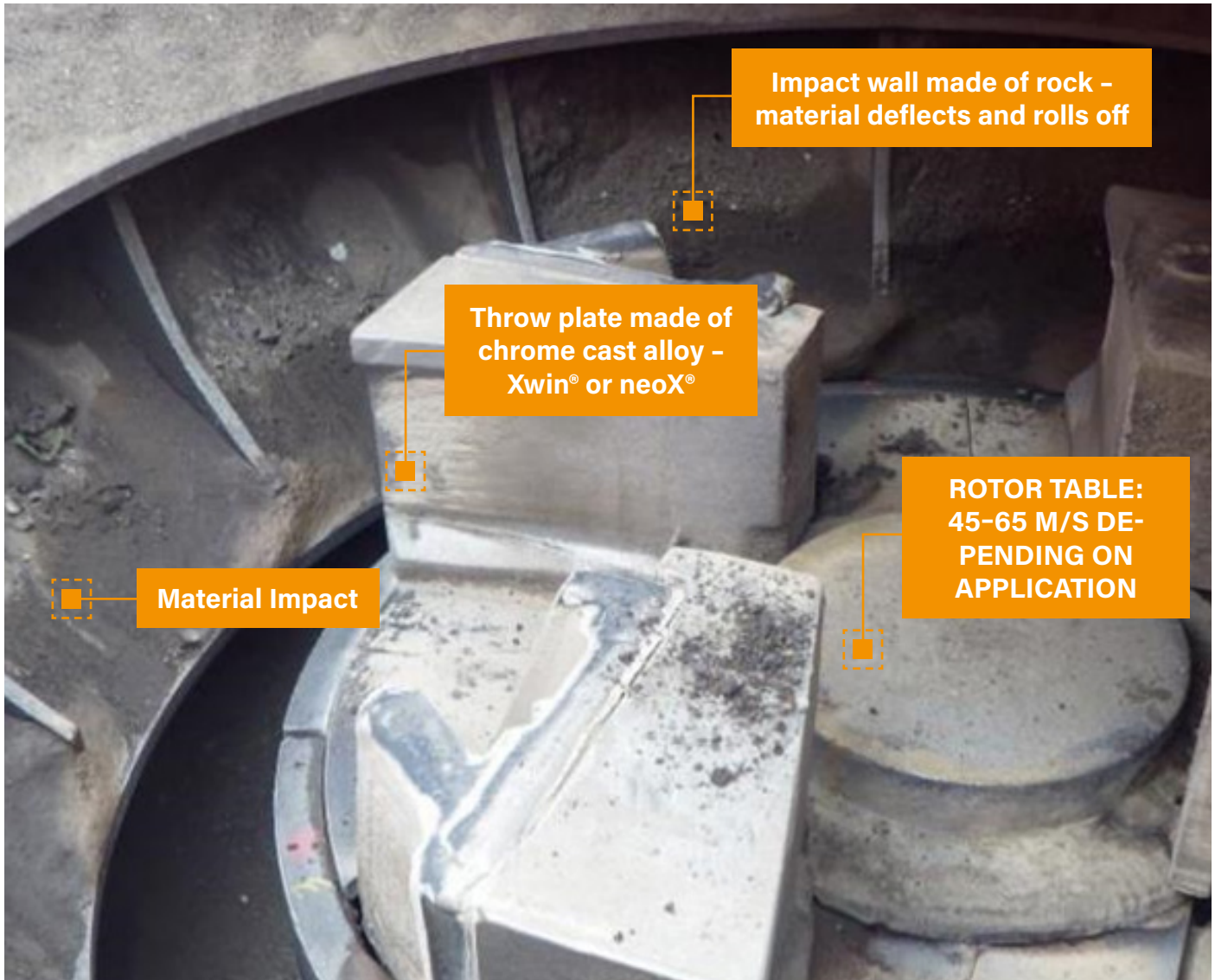
Advantages

- 100% recycled material directly in the drum
- Storage of chippings during warm summer months



Crushing Chamber – Material Bed (-ROR)

Crushing and Separation



MAG'Impact®

Asphalt cleaning

Feed material

Asphalt chunks are fed into a Gipo P131, and the discharged material is conveyed to a MAG 2100® ROR.

Final product

The crushed material from the MAG'Impact is directly screened into 0/8 mm and 8/X mm fractions.





**Feed material: Milled asphalt and tar-containing
road demolition waste**



**Asphalt Grain Size after PTM 2100 - Mag'Impact Processing
without Washing**



**Asphalt Grain Size after PTM 2100 - Mag'Impact Processing
with Washing**

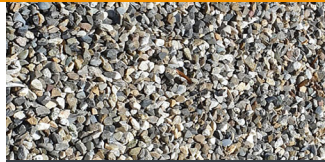
Applications of the MAG'Impact® 2100

Process a wide variety of products

Natural stone



Gravel



Split

Recycling



Asphalt



Concrete

MAG'Impact® 2100 - The All-Rounder

- Secondary or tertiary crushing stage
- Throughput: 80–160 t/h
- Perfectly suited for gravel operations
- Asphalt Cleaning

MAG'Impact® 2100 Sand - The Sand Crusher

- Tertiary or quaternary crushing stage
- Throughput: 60 to 150 tons per hour
- Light construction throw plates
- High-speed sand production

Maximum feed size (mesh):	80 mm
(Longest edge of the stone):	100 mm
Speed:	45 – 67 m/s
Throughput:	80 – 160 t/h
Electricity Power:	200 kW (FU)
Table diameter:	867 mm
Weight:	11 t
Number of baffle plates:	16

Maximum feed size (mesh):	40 mm
(Longest edge of the stone):	50 mm
Speed:	60 – 73 m/s
Throughput:	80 – 160 t/h
Electricity Power:	200 kW (FU)
Table diameter:	867 mm
Weight:	11 t
Anzahl Prallplatten:	16

Crushing chamber with impact plates

Crushing and separating



MAG'Impact®

A machine designed for easy maintenance



Replacement of impact plates and throw plates



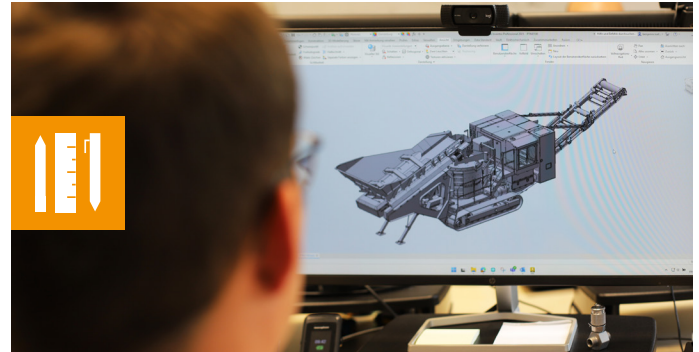
Replacement of Rotor and Throwing Table

PERFORMANCE

Overview of the various services

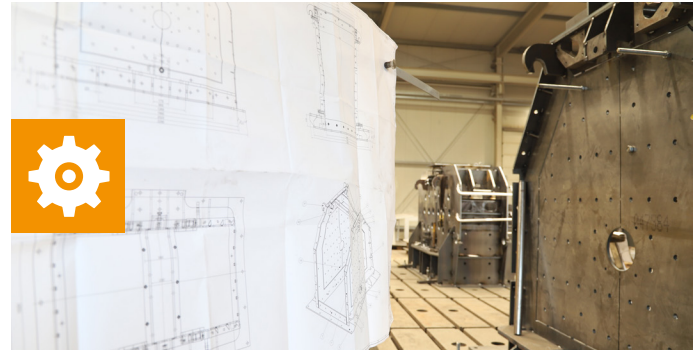
Design and innovation

We engineer and develop all our machines and plants ourselves, from the rotor to the entire recycling system. Customer requirements and ideas are a key part of our planning process. Thanks to this close cooperation, we have created numerous machines designed specifically for processing and handling a wide range of materials.



Mechanical and plant engineering

Comprehensive planning, engineering, and construction all from one source. From material input to screening — whether your production volume is 20 to 200 tons per hour, in a quarry or recycling facility — we bring your vision to life.



Installation and Support by the Manufacturer

What matters most to us is that your machine runs smoothly and efficiently. If your rotor or system experiences a sudden fault, we treat the repair with utmost urgency. We maintain a permanent stock of spare parts to ensure your machine's availability. Our skilled service team will promptly handle on-site repairs or part replacements.



CONSULTING

We're happy to offer you personalized advice



If you want to learn more about our products or prefer a personal consultation right at your machine, we're here for you. We're happy to assist with any questions about repairs, upgrades, or production workflows to find the best solution

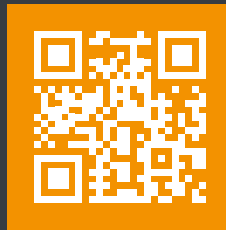
tailored to your needs. Whether visiting you on-site or welcoming you to our office for a tour of our production, we're ready to support you every step of the way.



TOGETHER WITH OUR CUSTOMERS AND PARTNERS, WE AIM TO
CREATE INNOVATIVE SOLUTIONS THAT WILL DEFINE THE FUTURE
STANDARDS IN RECYCLING.



WEITERE
INFORMATIONEN



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