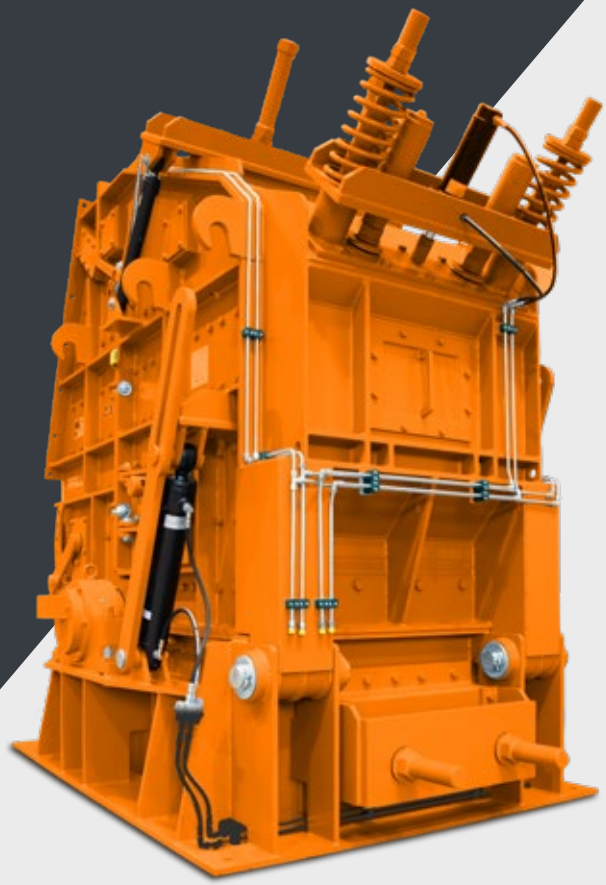
PRALL-TEC

More than just recycling





YOUR MATERIAL | **OUR PT IMPACT CRUSHERS**

Built for the toughest applications and tasks

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 crushers, 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.

A MACHINE GEOMETRY FOR BEST CRUSHING RESULTS

40 years of experience - Made in Germany



The crusher box is build as a strong steel construction and reinforcements on the outside. The folding crusher box part can be opened hydraulically to an above-average point what enables an easy access to the interior of the impact crusher for replacing spare parts like blow bars or impact plates. Due to the high weight of the impact aprons and rotor the oversize fraction is kept very low. At the same time foreign objects such as solid iron parts cannot cause any damage to the machine because of the high push back opening of the impact devices with at least 280 mm (11") or up to 600 mm (23"). The rotor, the impact aprons and the optional grinding unit consist of a heavy welded steel construction and allow the use of standardized casted or Hardox spare parts. The field of application of the PT impact crushers ranges from natural stone to the recycling of reinforced concrete, IBA and steel slag.

OUR EXPERIENCE – YOUR SUCCESS

40 years are in the detail



Up to
827
Troughtput (tn)

Up to
76
Weight (tn)

Up to
55"
Feed size

Through continuous further development of the crusher geometries, we are today offering probably one of the most sophisticated impact crushers on the market. For tough recycling operation we count on high evasion paths of the impact aprons and on a rotor construction with reinforced support bars that are holding the blow bars. The design of the impact crushers has been further optimized over many years over and over again and steadily improved with new and stronger materials. That way, several hundred impact crushers have been created and this is also reflected in today's work and quality.

OVERVIEW PRALL-TEC IMPACT CRUSHERS

A selection of our Impact Crushers



PT **100-100**



PT **100-70**



PT **130-150**



PT **110-100**

IMPACT CRUSHER	THROUGHPUT PER HOUR	WEIGHT	MAXIMUM FEED SIZE	INLET SIZE	MINIMAL END PRODUCT SIZE
PT 80	20–77 tn	4–5,5 tn	300 mm (12")	550 x 520 x 1020 mm (22" x 20" x 40")	6 mm (¼")
PT 100	66–220 tn	6–18 tn	420 mm (17")	610 – 760 x 690 – 2020 mm (24"– 30"–80")	6 mm (¼")
PT 120	165–275 tn	20 tn	600 mm (23")	1080 x 1260 mm (43" x 50")	30 mm (1 ¼")
PT 130	198–385 tn	21–26,5 tn	600–900 mm (23"– 35")	900–1080 x 1360–2020 mm (35"–43" x 54"–80")	45 mm (1 ¾")
PT 160	386–826 tn	4,5–76 tn	900–1400 mm (35 7/16"– 55 1/8")	1135–1600 x 1520–2200 mm (45"–63" x 60"–87")	60 mm (2 ½")

THE LATEST GENERATION OF IMPACT CRUSHERS

Most versatile Impact Crusher for all applications



Due to the development of new blow bars and geometries in the machines, impact crushers are constantly finding new areas of application. In Europe, the impact crusher has become indispensable in recycling and is the most commonly used machine for separating mineral products and metals. This can be, for example, concrete-reinforced components with iron, steel slag from blast furnaces or IBA for the recovery of non-ferrous metals.

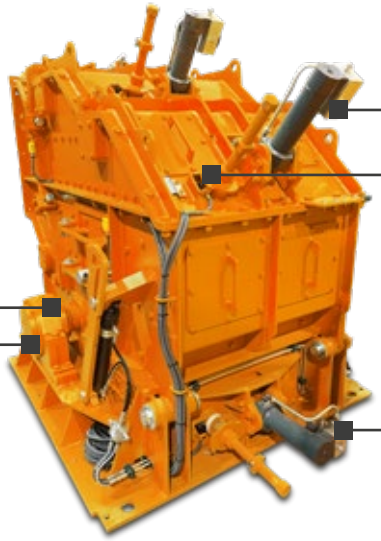
In addition, not only the separation plays a decisive role, but also the later properties of the end products for pressure load, particle shape and purity. All impact crushers are customized with a wide variety of built-in parts and are therefore designed for the customer-specific application. Many machines look similar, but the important things are in the details and the experience of 4 decades of crusher building.

ONE IMPACT CRUSHER – MANY POSSIBILITIES

A new and compact generation of impact crushers – the PT 110-100

Heavy rotor design with clamped blow bars

Various blow bars for every application



Fully hydraulic impact devices with 280 mm (11") deflection distance against foreign pieces

Gap adjustment via external hydraulic cylinder

Full hydraulic grinding bars or 3rd impact wall

We would like to introduce you to the advantages and innovations of the latest PT series with the new PT 110/100. With the new models, we can use a fully hydraulic impact apron adjustment or a conventional spindle technology and also remove each impactor individually with a screw-on housing cover in order to change the impactor plates safe and fast. Another innovation is the integrated inlet in the crusher, which saves a lot of space when space is limited on mobile machines or skid frame units. The innovative housing design also enables us to build a more space saving impact crusher with the same rotor size. Even with the smaller outer dimensions, there are no restrictions on the deflection opening foreign materials or the throughput per hour. Furthermore, all PT impact crushers can be extended by optional grinding bars. In this way, a primary crusher quickly becomes a secondary crusher for the production of chippings or the best separation of IBA.

THROUGHPUT PER HOUR	WEIGHT PT 110-100	PRODUCT FEED SIZE	INLET SIZE	ELECTRIC DRIVE	END PRODUCT SIZE
Up to 220 tn	9,5 tn	Up to 700 mm (28")	770 mm x 1020 mm (30" x 40")	Up to 200 kW	0-5 / 10 / 16 / 20 / 32 mm (0–¼" / ⅜" / ⅝" / ¾ / 1 ¼")

TRACKED MOBILE PT IMPACT CRUSHER

Flexible, easy to transport and maximum output



With the mobile impact crusher, we are breaking new ground and can not only carry out tests with customers, but also offer a reliable special solution for various products. On the one hand, the machine can be used as usual in the recycling of C&D waste or concrete, but it also offers the possibility of processing slag and IBA mobile in the usual way that is otherwise installed in a stationary plant. The system is equipped with its own power unit and generator which drives the rotor directly over a coupling and all other motors electrically. The output of the machine is specified as up to 200 tons in C&D waste and at IBA up to 100 tons per hour.

FIELDS OF APPLICATION

Your Material – Our Impact Crusher

Natural stone





Slag/IBA





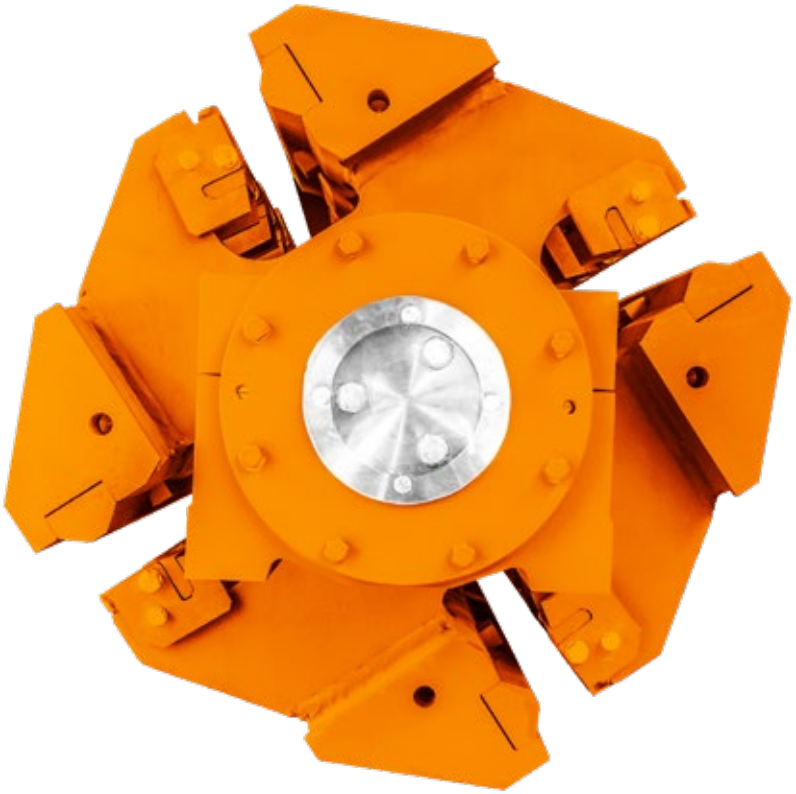
Recycling





ROTOR TECHNOLOGY

The PT Rotor Technology



Every rotor at Prall-Tec goes through a specific manufacturing process, which is designed for the toughest applications and has been continuously developed for decades. The heart of every impact crusher is the rotor, so this is where you should invest most of the time and effort to make our customers' later work as easy as possible. All rotor components are made of tempered steel or forged components. This ensures that no cracks can form in the rotor body, which is not least prevented by our welding and temperature process. The bearing housings and labyrinths are also manufactured in-house and withstand the impact of foreign pieces inside the crusher and also ensure a long service life for the spherical roller bearings. This rotor together with the latest blow bars and ceramic inlay ensures maximum running time and consistently high production.

QUICK ADJUSTMENTS OF THE CRUSHER

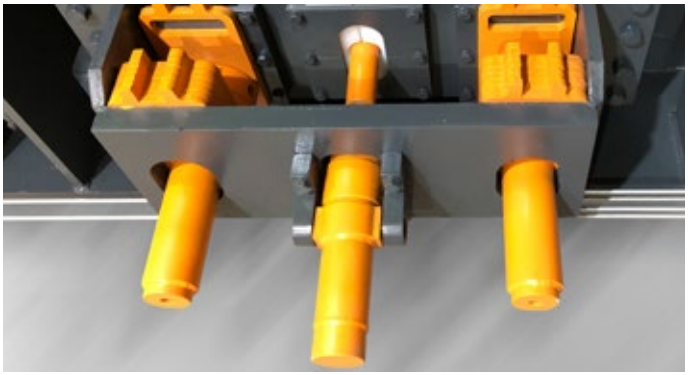
Various options for setting the end product sizes



Manual crushing gap adjustment with spring system



Crushing gap adjustment with spacer plates and hydraulic support



Grinding gap adjustment with spacer plates and hydraulic support

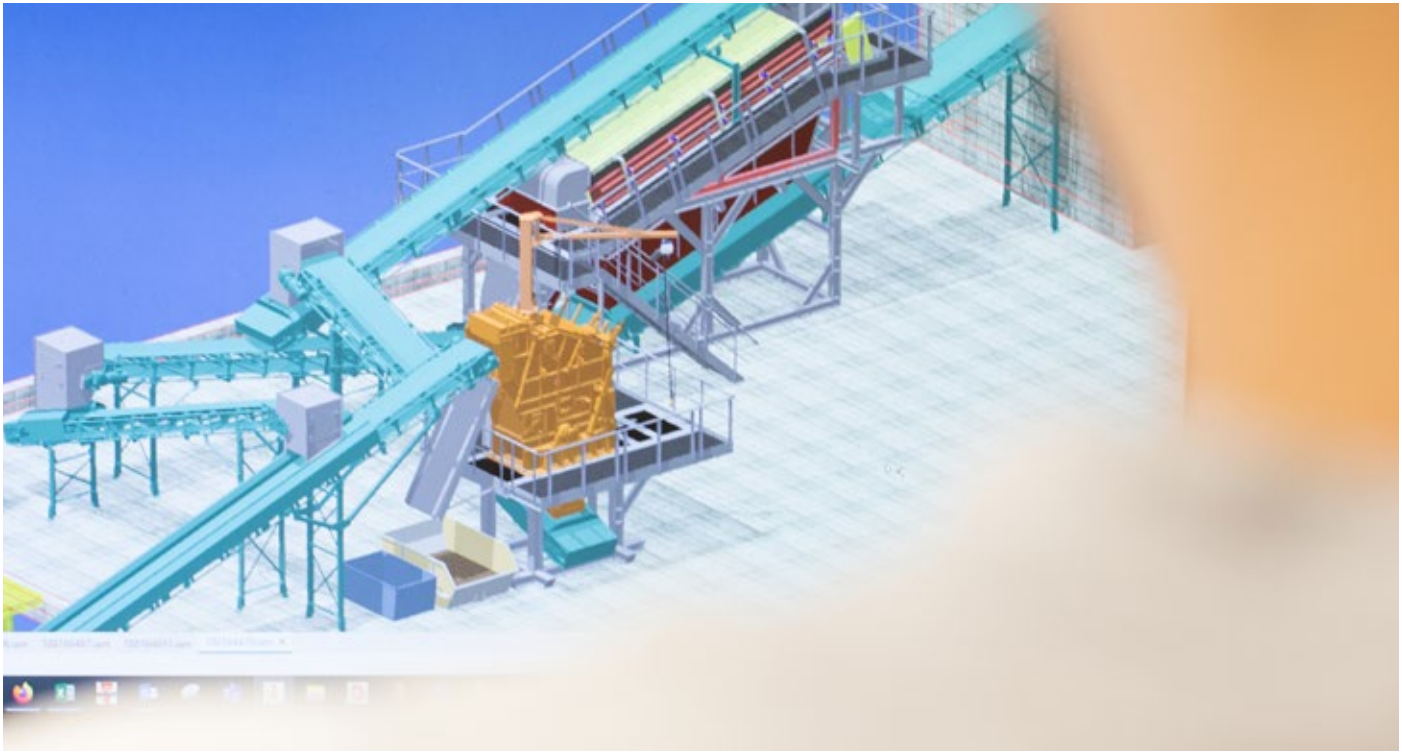


Full hydraulic gap adjustment

The choice of the impact mechanism adjustment can be made depending on the material and frequency of the gap adjustment change. We can use both a conventional spindle system with compression springs or fully hydraulic impact devices with maximum and quick opening of the impact devices. It plays a special role how often the setting of the machine should be changed and how this setting is done. There is also the option of automatic adjustment via a position measuring system for the cylinders, which means that the gap setting of the impact crusher is constantly self-regulating.

RECYCLING PLANT WITH PT IMPACT CRUSHER

We realize your individual ideas



From the idea across planning and construction, up to building and assembling, we offer a plant construction from a single source. The machine parts are manufactured in our own production in Lengerich and they create a powerful unit together with the impact crusher according to your specifications and wishes. The knowledge and experience is reflected in each plant and this way single components are perfectly matched with each other and provide a good ensemble of all installed machines. Whether a small secondary crusher with reinfroced conrete, a crusher station with inflow unit and scalper or a complete plant with impact crushers, oscillating conveyor channels, screening machines and conveyor belts – we will realise your ideas and provide our knowledge for a perfect solution.

CORPORATE SUSTAINABILITY

A Sustainably Operating Mechanical Engineering Company

PRALL-TEC



Frederik Teepe

CEO Prall-Tec GmbH

> ***CO2 emissions, climate change, recycling and sustainable raw materials are more important today than ever before and so we at Prall-Tec try to make a contribution to a cleaner world and at the same time create a profitable business for our customers***

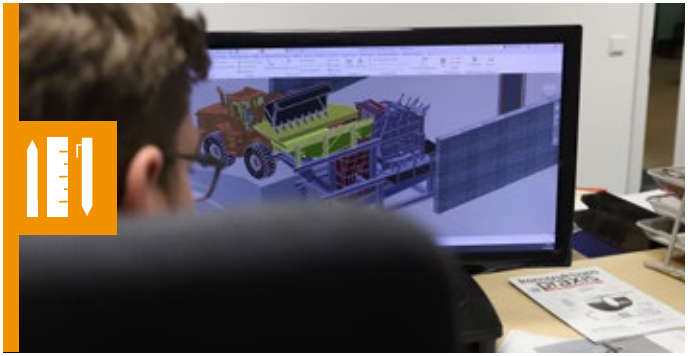
Sustainability is a central theme throughout the company, which is why we position ourselves as a sustainable mechanical engineering company. Our efficient recycling technology enables us to recover valuable raw materials, conserve CO2 emissions, climate change, recycling and sustainable raw materials are more important today than ever before and so we at PrallTec try to make a contribution to a cleaner world and at the same time create a profitable business for our customers natural resources and significantly reduce greenhouse gas emissions. We thus make a major contribution to promoting the circular economy and ensuring the environmentally compatible management of waste.

PERFORMANCE

Overview of the various services

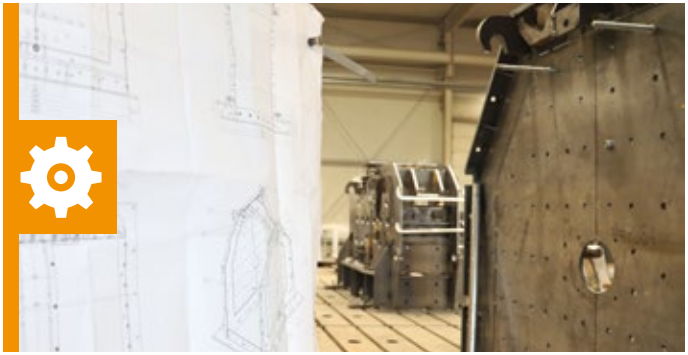
Design and innovation

We develop and design all our machines and systems in-house – from the rotor to the complete recycling system. Customer requests and ideas are an integral part of our planning processes. This close collaboration results in tailor-made solutions for processing and handling a wide variety 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 are happy to provide personal consultation



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.

THE COMMON GOAL OF DEVELOPING NEW SOLUTIONS WITH OUR CUSTOMERS AND PARTNERS, WHICH WILL SET NEW RECYCLING STANDARDS IN THE FUTURE.

FURTHER INFORMATION

PRALL-TEC

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