

PRODUCT RANGE

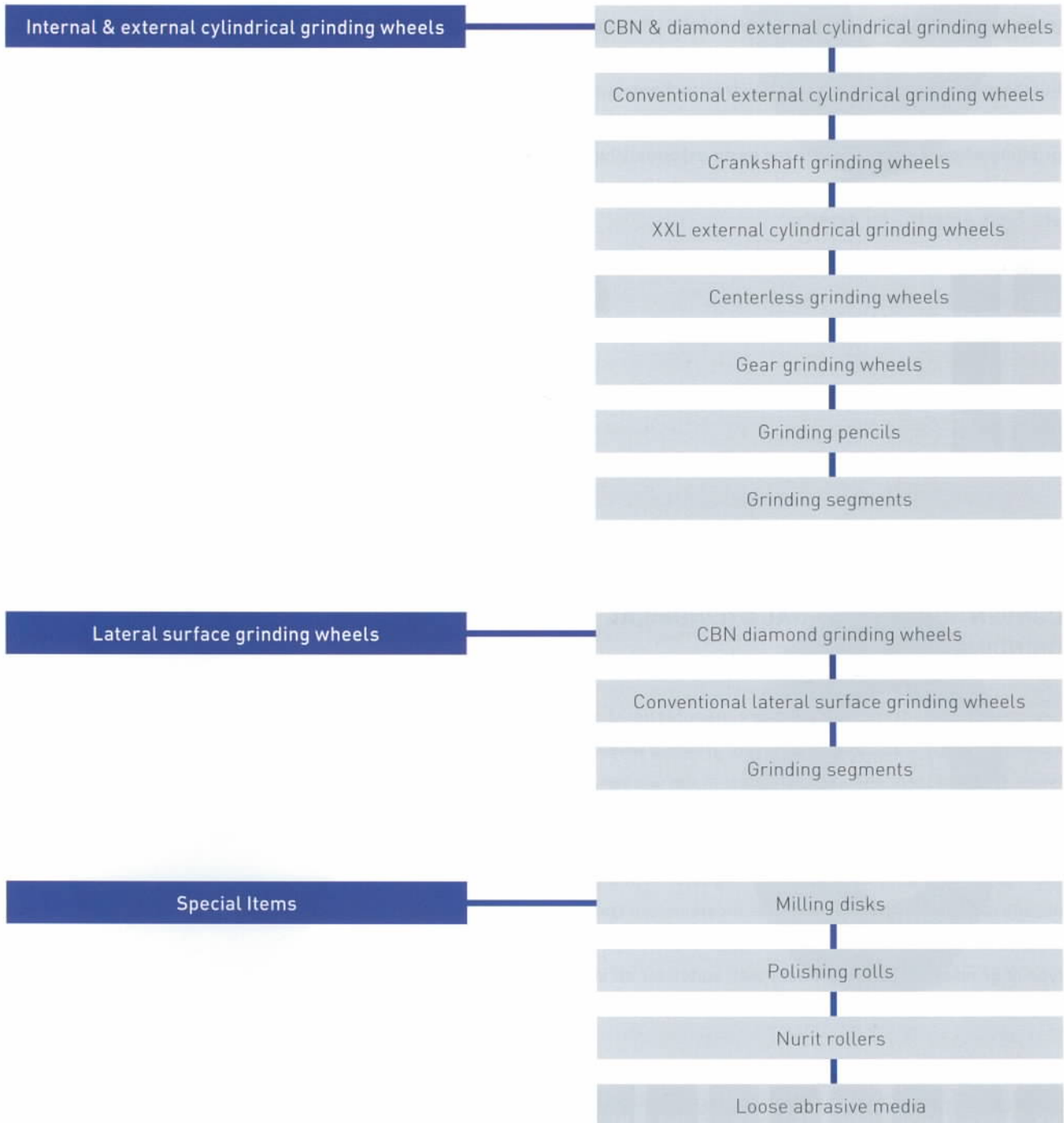
OUR PRODUCTS CONSTITUTE THE CORE OF OUR COMPANY

In the abrasive industry, we are known for our leading products. Therefore, our objective is to supply our customers with high-quality products which do not only represent the latest state of the art, but which are also precisely adapted to the processes of our customers. Thus, customer-oriented work is not only our guiding principle, but also a fundamental corporate philosophy for us.

Due to our future-oriented manufacture and production, we can ensure short lead times as well as a competitive price level. The above-average durability of our products and the optimization of your grinding operations by means of our application technology gear up your company for the challenges of the future.

On the following pages we present you some product groups from our extensive product range. These product groups represent a framework for possible or already existing products. However, we would be pleased to extend this framework together with you.

PRODUCT RANGE



CBN & DIAMOND EXTERNAL CYLINDRICAL GRINDING WHEELS

Our CBN and diamond grinding wheels are designed and manufactured for highly precise grinding operations with very good repeatability. CBN grain with special coating and newly developed vitrified and resin bonds are the basis of your CBN and diamond grinding wheels made by NAXOS-DISKUS. These special CBN grinding products are used for metal cutting of very hard and carbide containing alloys. Furthermore, different materials such as tool steels, special steels and many more are ground with very good results. Our diamond grinding wheels are characterized by an extremely high hardness and are used for metal cutting of amorphous and extremely hard materials. From experts – for experts!



CONVENTIONAL EXTERNAL CYLINDRICAL GRINDING WHEELS

Our conventional grinding wheels are manufactured according to customer request and application, and grinding wheels of all grain types are produced. The abrasive grain materials vary from corundum types to silicon carbide and up to microcrystalline sintered corundum, because every different grain type has other properties with regard to the treatment of different materials. Together with the grinding technicians of NAXOS-DISKUS, new specifications are constantly being created to meet customers' specific application requirements. This type of grinding wheel is also very well suited for all sorts of profiled versions.



CRANKSHAFT GRINDING WHEELS

Vitrified bonds are usually used for this special type of grinding wheels. Depending on the grinding operation, the grinding wheel for bearing seats can be composed of one single layer or of three layers, in case the shoulders and the bearing seat are to be ground in one passage. We are able to manufacture these multi-layered grinding wheels very precisely. Due to the three-layered version, the durability of your crankshaft grinding wheel is increased thanks to the enhanced stability. The low manufacturing tolerances of the motor manufacturers bear witness to our know-how.



XXL EXTERNAL CYLINDRICAL GRINDING WHEELS

One of our numerous special fields of work is the manufacture of grinding wheels with a diameter of up to 1600 mm. Large crankshafts which are incorporated in marine engines are for example ground with these grinding wheels. These enormous dimensions require a high degree of specialization during the manufacture. The tolerances do not increase with the increasing size. On the contrary, they decrease proportionally and reach very demanding ranges. With our XXL external cylindrical grinding wheels, we can realize every desired size with the experience gained from 135 years of abrasive medium manufacture.



CENTERLESS GRINDING WHEELS

In this special application, one distinguishes between throughfeed grinding and plunge-cut grinding. Depending on the application, one can either select a single-part or a multi-part version which ensures a better handling during the grinding wheel exchange, depending on the circumstances. It is precisely these transition points of multi-part grinding wheels that require extensive knowledge during the construction and manufacture, since otherwise they might affect the grinding pattern. We can manufacture the different areas with different grain size and hardness in order to obtain a high chip removal rate on the feeding side and a good surface quality on the discharge side, especially in the case of throughfeed grinding.



GEAR GRINDING WHEELS

Gear grinding wheels are used for grinding toothed wheels and tooth flanks. With regard to their specification and their profile, our gear grinding wheels are designed to precisely meet the requirements of the workpiece to be ground. If desired, we can provide the gear grinding wheels with a finished profile prior to delivery. The profile of the so-called grinding worms is identical with that of the workpiece, and a linear contact takes place across the entire width of the toothing. Due to our cooperation with machine manufacturers (e.g. Präwema), we can always keep you up to date with regard to gearing technology.



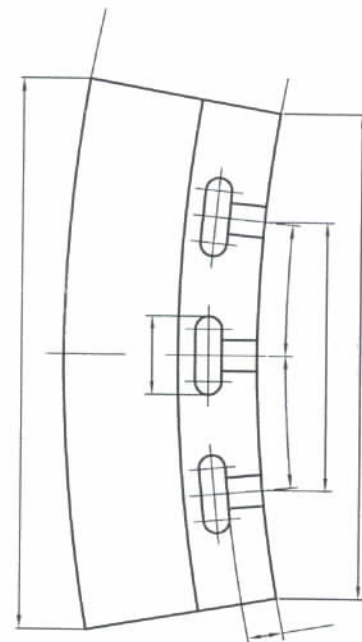
GRINDING PENCILS

Our grinding pencils are used for internal cylindrical grinding. This type of grinding medium can be manufactured from conventional abrasives or in the form of a CBN grinding pencil. With CBN grinding pencils, a longer service life of the grinding tool can be achieved. Our grinding pencils prove their power especially if inaccessible areas are to be ground. You can rely on NAXOS-DISKUS grinding pencils even at very high speeds and under most difficult conditions. Since in many fields of application of the grinding pencils, the future lies in the time-saving simultaneous grinding, you should be able to count on one manufacturer that produces all the grinding media.



GRINDING SEGMENTS (EXTERNAL CYLINDRICAL GRINDING)

The grinding segments manufactured by our company are available in all imaginable shapes and sizes, and with all bondings and grain types you can think of. One main field of application of grinding segments is the use on a grinding wheel. The grinding segments can be manufactured with a base body (foot) onto which the grinding segments can be optimally mounted. With these grinding segments, even older machine types can be updated to become state-of-the-art grinding technology. Since the segments are machined in a set, we can guarantee an ideal concentricity of the segments. We are your partner in state-of-the-art technologies and also when it comes to the knowledge of well-proven methods.



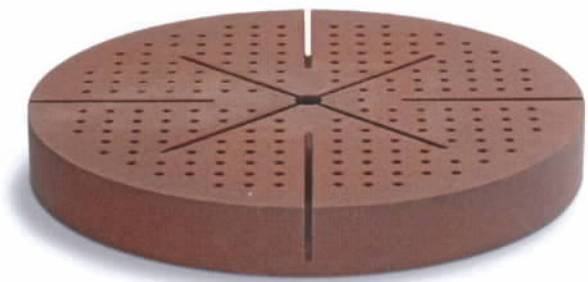
CBN & DIAMOND LATERAL SURFACE GRINDING WHEELS

Naxos-Diskus can look back on many years of experience in the manufacture of CBN and diamond surface grinding wheels. Our grinding wheels are used in the most different areas of metal machining and ceramics processing, e.g. for the grinding of piston rings. The advantages of these grinding wheels are their long service life and the high dimensional accuracy of the ground workpieces. Our grinding wheels can be optionally purchased with a base body made of steel or aluminium. With our ceramically or resin bonded CBN and diamond lateral surface grinding tools, we provide you with a tool that allows you to look into the future without having to worry about its condition.



CONVENTIONAL LATERAL SURFACE GRINDING WHEELS

In the area of conventional face grinding, we act as original equipment supplier for the famous double-sided lateral surface grinding machines of DISKUS WERKE. Due to this long-term cooperation, we can manufacture grinding wheels for every appropriate application. The field of application of the conventional grinding wheel comprises the automotive industry (from engine blocks to connecting rods), the punching industry, the watchmaking sector (blanks of watches) up to the grinding of skis! During the manufacture we attach great importance to a constant and high product quality and the dimensional accuracy of our grinding wheels at an incomparable price-performance ratio.



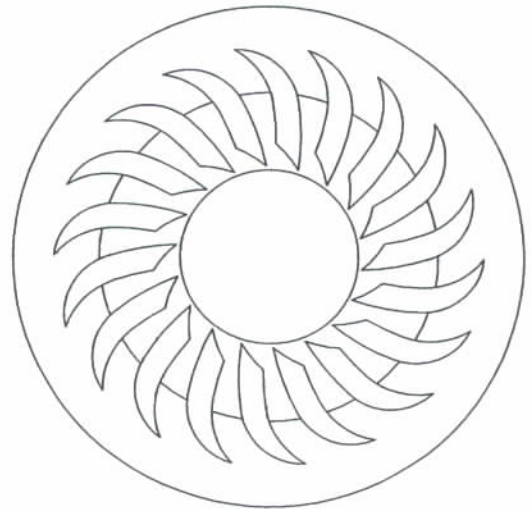
GRINDING SEGMENTS (LATERAL SURFACE GRINDING)

NAXOS-DISKUS manufactures grinding segments for most different applications worldwide. The advantage of the grinding segments is their easy installation in the grinding machine. Moreover, they are very well suited for rough machining while ensuring best possible dimensional accuracy and surface quality. Especially noteworthy in this regard is the grinding of engine blocks. Furthermore, ball cages are ground on one side. As with all of our products, we pay attention to excellent properties, i.e. perfect cutting performance, low cutting temperature and excellent self-sharpening ability. Our separate production line for the segment manufacture is our investment for your perfect cut.



MILLING DISKS

In the food sector, we can also score with quality. Our milling disks are very popular for the use in different applications. Not only the long service life, but also the dimensions of our products and our precise manufacture create a large benefit for our customers all along the line. It goes without saying that we will define and provide you with a product which is tailor-made to suit your individual requirements. From mustard to cocoa or coffee – we manufacture milling disks for milling materials of every shape and size. We have many years of experience as original equipment supplier for the manufacturers of grinding mills. Our decade-long, constant quality also helps you to avoid product variations.



POLISHING ROLLS

We manufacture our polishing rolls for the treatment of leather and leather-like materials. Our polishing rolls are also very well suited for the shaping of such materials. Even unusual sizes can be handled by our company without any problems. An optional metal core provides our polishing rolls with high stability and above-average durability. See for yourself our very flexible product specifications – which are exactly designed for industrial leather processing. NAXOS-DISKUS offers you products which enable you to reach new targets when it comes to cycle time, design and workmanship.



NURIT ROLLERS

Nurit rollers or also yarn guide pulleys are an indispensable aid for the textile industry. The thread which is partially immersed into coolant is optimally moistened and guided, even at high peripheral speeds. Excellent, heat-absorbing properties and extremely precise workmanship support the faultless manufacture and processing of textile threads. Due to the excellent capacity to absorb coolants, you no longer need to worry about faults or downtimes in the manufacturing process. Moreover, we would be pleased to configure specific Nurit rollers according to your individual requirements.



LOOSE ABRASIVE MEDIA

Our regular and special fused aluminium oxides which are especially designed for surface treatment are suitable for the use in bonded abrasive bodies as well as for the abrasive blasting of workpieces. Due to their high purity and abrasion resistance, excellent surfaces are obtained by the abrasive blasting process. If desired, we can also supply you with very homogeneous mixed corundum which is prepared in our mixing units. Extensive storage capacity ensures prompt delivery of individual quantities. The chemically neutral blasting abrasives made by NAXOS-DISKUS are characterized by high purity, and can be processed without any health risk. They are perfectly suitable for matting, deburring, blast cleaning and shot peening.



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