

Rail Cutting Discs

Powerful solutions for cutting rails





A cutting edge challenge

As rail track technology continues to make major advances to cope with increasing axle weight and tonnage, the steel used for tracks has become purer and harder. This, combined with high levels of carbon, manganese and silicon and the heat treatment used in manufacturing, has made cutting operations an increasing challenge.

At Pandrol, we recognised that rail maintenance teams needed a new, powerful solution for cutting heavy duty steel track.

Partners in excellence

Pandrol defines the industry standard for rail fastenings and aluminothermic welding. We've created infrastructure in more than 100 countries, designing, developing and manufacturing products and services that make constructing and maintaining railways more efficient.

Pandrol's range of track equipment spans everything from large clipping machines and hy-rail solutions for excavators, to lightweight hydraulic, gas and electrical tools for welding and maintenance. We also design specialist equipment that solves the day-to-day challenges facing rail maintainers.

Pandrol's Rail Cutting Discs

Pandrol's range of Rail Cutting Discs has been specifically designed to:

- Improve productivity when cutting rails
- Reduce the total cost of maintenance
- Make the cutting operation safer
- Reduce environmental impact

The discs are available in three specifications: **Alox, Zirconia and Ceramic.**

What saw should the discs be used with?

Pandrol's HC 355 Rail Saw is compatible with all three cutting discs in the range and ensures fast, accurate and safe cutting of all rail profiles and grades.

With a powerful engine and high-power transmission rate, the HC 355 is efficient compared to other portable cutting tools. Easy to use, the operator simply has to guide the machine; there is no push or pull effort.

The saw's support arm guides the saw, guaranteeing high-quality cutting that is perfectly perpendicular to the rail. Set-up is quick and simple using the support's tightening jaw, which ensures rigid fixing on the rail. For the safety of operators, the engine cuts off automatically when the saw is not attached to the support.

Different versions of the HC 355 Rail Saw are available for vignole rail, grooved rail, crane rail, guiding rail and hy-rail.



Introducing Our Rail Cutting Discs

Pandrol's range of Rail Cutting Discs has been designed for ease of use, durability and effective cutting. All three products in the range have a longer life than other products on the market, which reduces the number of replacement discs needed and saves time and money.

Pandrol Alox

The Pandrol Alox cutting disc is a widely-used, well-proven product suitable for all applications.

At a glance:

- Made of aluminium oxide
- Comfortable to use
- Enables operators to complete one to two welds before changing the disc
- Suitable for use in all applications



Pandrol Zirconia

The Pandrol Zirconia allows more cuts per disc with and is both easy and comfortable to use.

At a glance:

- Made of zirconia
- Very comfortable cut
- Longer lifetime reduces waste and environmental impact
- More efficient because less time is spent changing discs
- Suitable for use in all applications



Pandrol Ceramic

The Pandrol Ceramic cutting disc is our best-in-class product. Is easier to use and lasts longer than any other rail saw cutting disc on the market today.

At a glance:

- Made of ceramic grains
- Offers more cuts per disc than any other product currently available
- Less downtime and waste
- Suitable for use in all applications



A cut above the rest

Pandrol Ceramic

If you're looking for truly exceptional rail cutting performance, then Pandrol Ceramic is the disc for you.

Our Rail Cutting Disc range that gives:



Comfort and safety

The ceramic grain and new bond system make the Pandrol Ceramic disc exceptionally comfortable for operators to use. Vibrations are reduced, minimising the risk of lower hand-arm vibration and white finger disease.



Long product life

The Pandrol Ceramic disc has a longer product life than any other competing product currently on the market. As a result, fewer discs are needed, saving time, money and waste.



Accuracy and quality

Track cutting with a Pandrol Ceramic disc results in consistently high-quality outcomes. Straight, accurate cuts make for a great finish, eliminating delays while faults are rectified and saving grinding time.



Speed and efficiency

The disc is the highest speed available, enabling more material to be cut in a short period of time. This reduces labour costs and eases stress when time is tight, for example on night shifts.



→ UNDERSTANDING THE PRODUCT

- | | |
|--------------------------------|---|
| 1. Batch number | 7. Safety pictograms |
| 2. Application material | 8. OSA certification |
| 3. Diameter x thickness x hold | 9. EN standard |
| 4. Product specification | 10. QR Code (to download technical documentation) |
| 5. Maximum peripheral speed | |
| 6. Machine cutting | |



Choosing the right disc for you

The guide below will help you select the best Pandrol Rail Cutting Disc to meet your needs.

Name	Specification	Diameter	Thickness x Bore (mm)	Pack quantity	Art no.
Pandrol Ceramic	NQ24Q	356	4.0 x 25.4	5	47901045
Pandrol Zirconium	ZA24Q	356	4.0 x 25.4	10	47901044
Pandrol Alox	A24Q	356	4.0 x 25.4	10	47901041
Pandrol Alox	A24Q	406	4.0 x 25.4	10	47901042

Attribute	Pandrol Ceramic	Pandrol Zirconium	Pandrol Alox
Fast cut	● ● ●	● ● ○	● ○ ○
Comfortable cut	● ● ○	● ● ○	● ○ ○
Long life	● ● ●	● ● ○	● ○ ○
Straight cutting	● ● ●	● ● ●	● ● ●
No blueing	● ● ○	● ● ○	● ● ○

Safety assured

Pandrol puts worker safety first in all of our products and services. Our Rail Cutting Disc range adheres to:

- European health, safety and environmental standards
- Federation of European Producers of Abrasives (FEPA) standards – FEPA is dedicated to promoting safety in the use of abrasives and is involved in preparing and implementing the EN and ISO standards for abrasives and grinding machines
- Organisation for Safety of Abrasives (OsA) standards – OsA works closely with FEPA to support current safety standards and their further development

Internal testing and certification of the Pandrol Rail Cutting Disc range has been based on the following safety requirement standards:

- Bonded Abrasive Products (EN12413)
- Diamond Blades (EN13236)
- Cutting-off Wheels (EN12413).



Looking for specific advice?

Pandrol specialists can provide guidance to help you select the best cutting disc for your particular operation, helping you to improve operator comfort and safety, increase efficiency and save time and money.

Get in touch today: pandrol.com

Partners in excellence

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