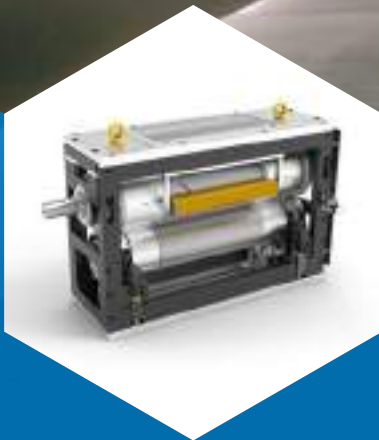


HYPERION MATERIALS & TECHNOLOGIES

Rotary Cutters



Rotary cutting solutions
for the converting industry



HYPERION
Materials & Technologies

WELCOME TO HYPERION MATERIALS & TECHNOLOGIES

Hyperion Materials & Technologies is an engineering company with nearly 70 years of experience in hard and super-hard applied materials, including cemented tungsten carbide, diamond, and cubic boron nitride (CBN). Hyperion's products are engineered to increase productivity and improve performance of our customers' products.

HYPERION

We are over 1,700 people dedicated to creating solutions for your hard and super-hard material needs through partnership, innovation, and invention. Hyperion's offering includes materials for rotary cutters, mining, oil and gas, metal cutting, hot rolls for the steel industry, can tooling, metal forming, and a wide range of wear protection applications.

Our global manufacturing and supply chain organization is supported by in-house tungsten carbide and diamond manufacturing.

Hyperion's technical expertise and global manufacturing facilities are a foundation from which a network of local sales and customer service teams support our customers in the development of effective solutions.

OUR COMMITMENT

Hyperion is committed to focusing on the productivity of our customers, adapting our products and resources to match our customers' requirements, and being responsive to market changes and trends. Please contact your local Hyperion salesperson for all of your rotary cutting needs.



ADDED VALUE CUTTING SOLUTIONS

Hyperion Materials & Technologies has dedicated production, maintenance, sales, and customer service sites to assist customers across the world. We act locally; we think globally.

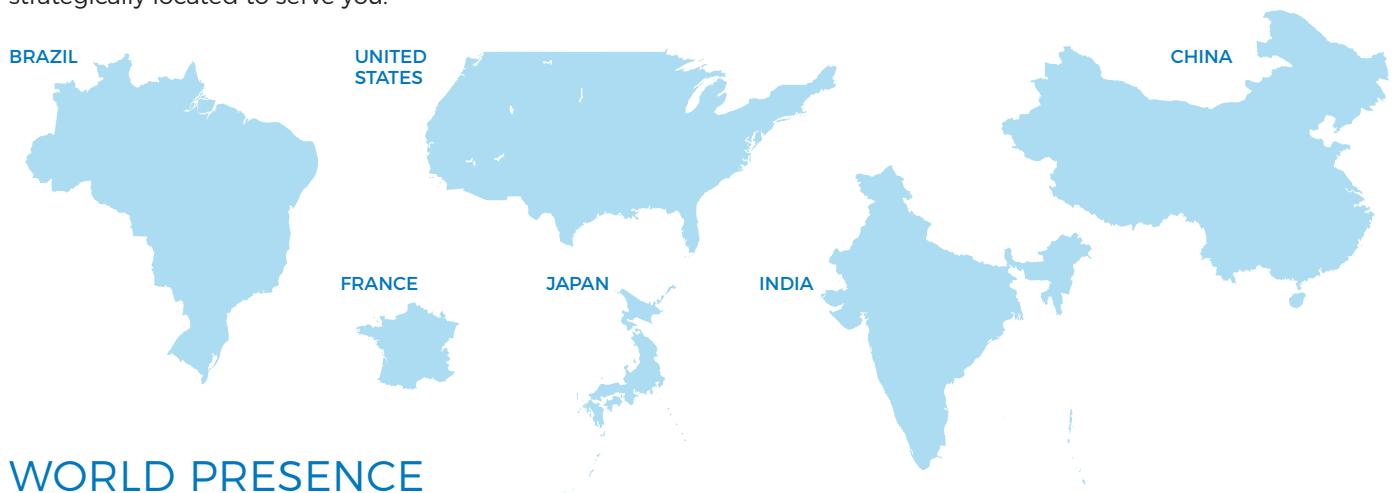
For over 30 years, Hyperion has been contributing to the evolution of the disposable hygiene market, making it possible to cut any shape, at increasing speeds, with long-lasting performance.

In an ever-challenging world, both end-users and machine makers are constantly turning to Hyperion to develop reliable and high-performance cutting solutions for increased productivity and continuous generation of savings.

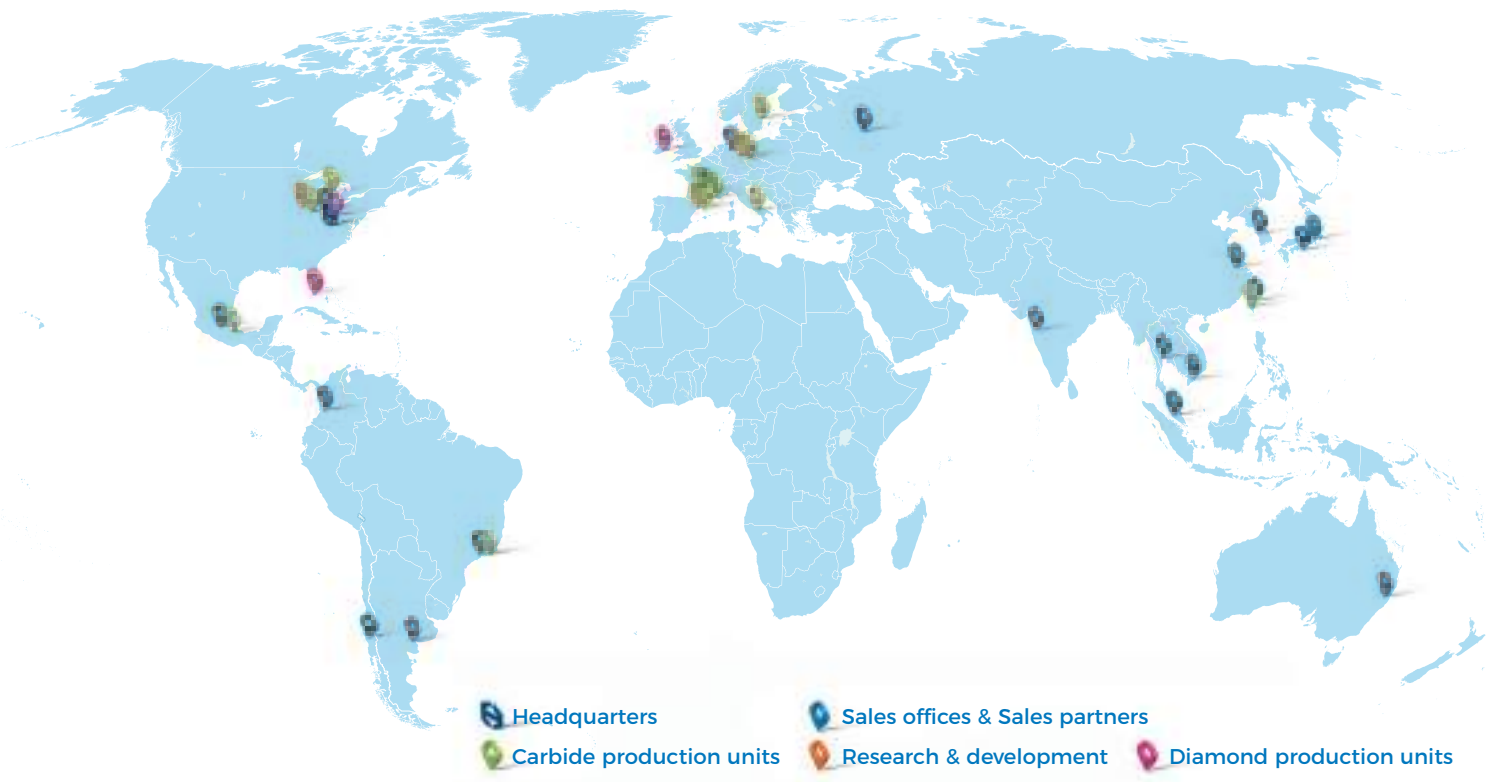
Today, Hyperion is helping customers in their most challenging projects, providing cutting solutions from the entry level up to the premium market. Through strong customer relationships and innovative partnerships, we aim to contribute to our customers' success.

MAINTENANCE CENTERS

Hyperion provides maintenance and re-sharpening services for our rotary cutters to increase the life of your investment. Contact Hyperion at techservice@hyperionmt.com to discuss how you can save time and money by using our services strategically located to serve you:



WORLD PRESENCE



SOLUTIONS THAT GENERATE SAVINGS

Through a deep assessment of the converting line process and the running conditions of the cutting unit, Hyperion Materials & Technologies can help identify the drivers that generate savings and propose the solutions that solve your technical and financial needs, ensuring the best customer experience.

Ensure equipment is running at the highest speed possible and identify the main factors that can contribute to reliably maintaining converting speed.

Reduce waste by examining the cutting parameters that can contribute to the highest conversion efficiency.



Maximize overall equipment effectiveness (OEE) by developing smart cutting solutions to optimize the frequency and duration of machine stops.

Ensure long-lasting and repeatable performance by manufacturing user friendly units with perfectly sharpened tools that reduce the overall cost per cut.

YOUR PRODUCTS, OUR SOLUTIONS

Through our deep understanding of the rotary cutter industry and our customers' applications, Hyperion Materials & Technologies enables customers to excel in their daily production challenges. We design and manufacture precision cutting solutions suitable to many different applications.

HYGIENE

BABYCARE

Open diapers
Baby pants



FEMCARE

Panty liners
Sanitary napkins



ADULTCARE

Light incontinence products
Heavy incontinence products



MEDICAL, PACKAGING, COMPOSITES, AND MORE

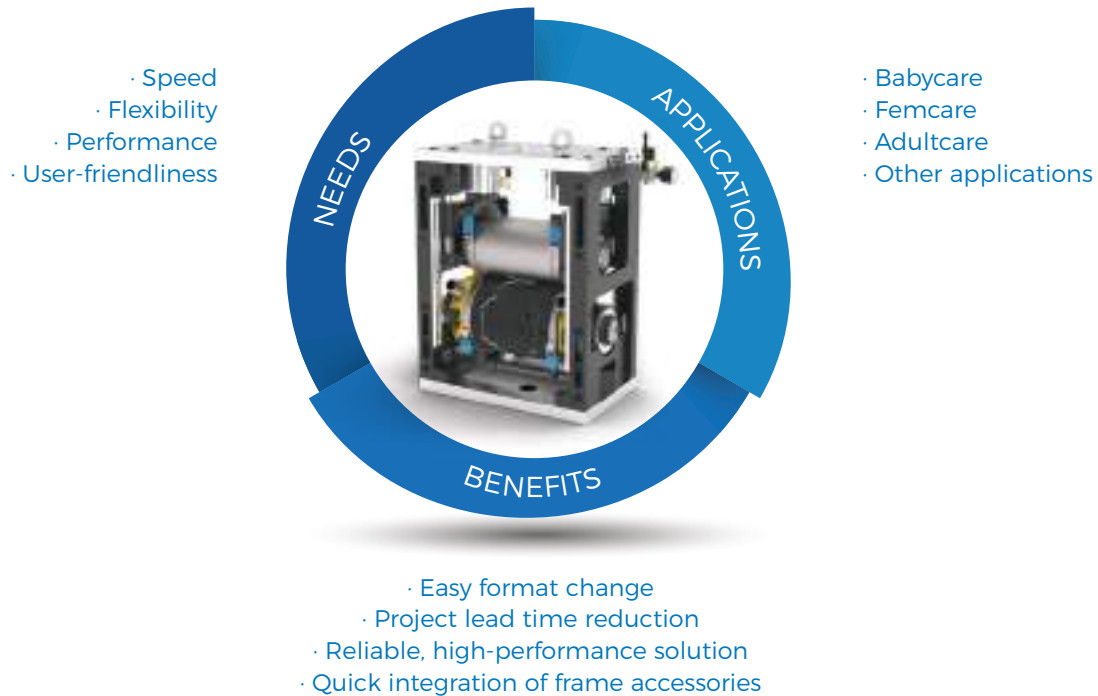
Hyperion's technical experts are available to partner with our customers in the development of special applications using a rotary cutting concept.



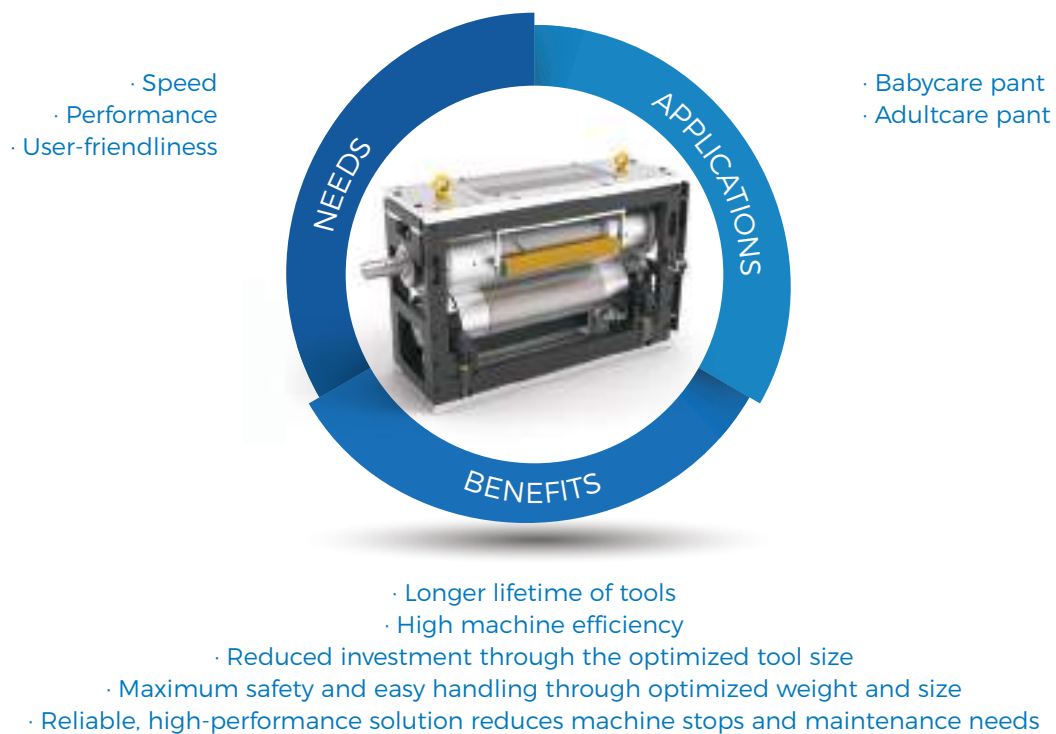
MODELS

Within each platform, Hyperion Materials & Technologies gives customers access to different models of cutting solutions, each of them suitable to solve specific customer needs.

REGULAR



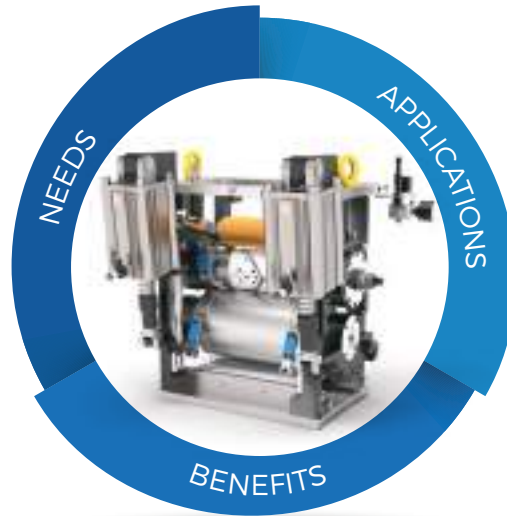
PBA - Positive Bending Anvil



MODELS

SLEEVE

- Flexibility
- Lower investment
- Performance
- Easy size change

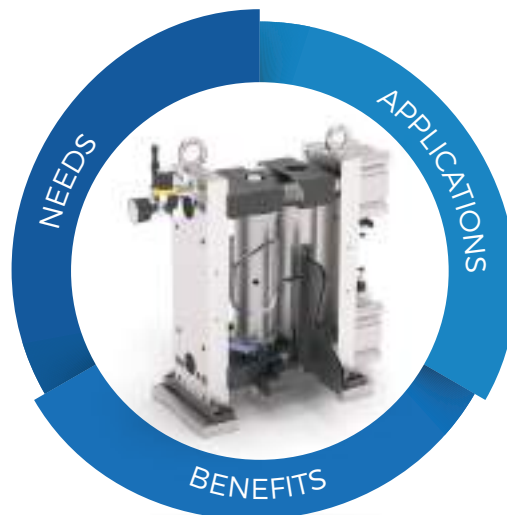


- Babycare backear, frontear, and tape cuts
- Femcare
- Adultcare light incontinence
- Other applications

- Optimization of replacement parts
- Easy and quick format change for multi-size machines
- High productivity through reduced machine downtime
- Reduced re-sharpening and transportation costs through limited size and weight

EEZY

- Vertical and horizontal flexibility
- Up to 150 cuts/minute

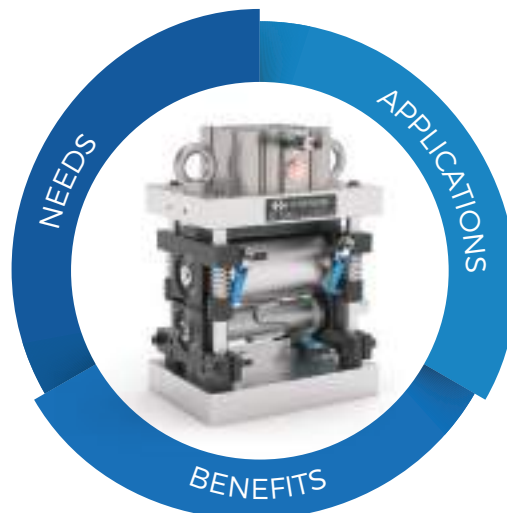


- Medical care
- Packaging
- Other applications

- Small dimensions allow for ease of fit into converting lines
- Longer lifetime than steel solution
- Cut stability
- Clean cut

MICRO

- Speed
- Web width up till 115 mm
- Performance



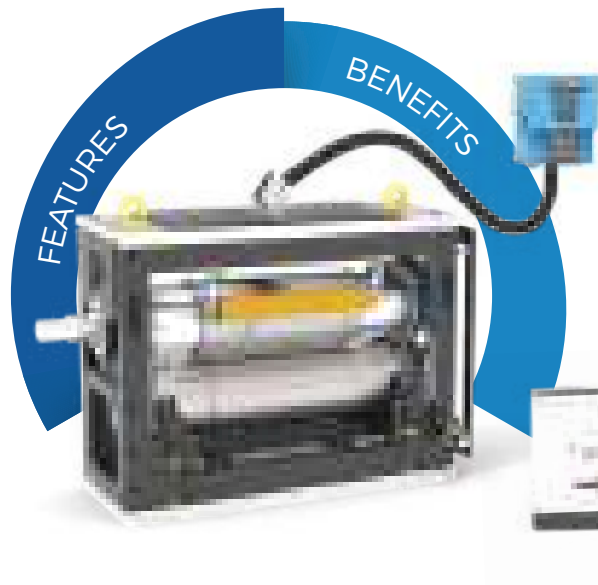
- Babycare
- Medical care
- Packaging
- Other applications

- Easy format change
- Easy to handle
- Compact footprint allows for ease of fit into converting lines

EXTENSIONS

IQUT

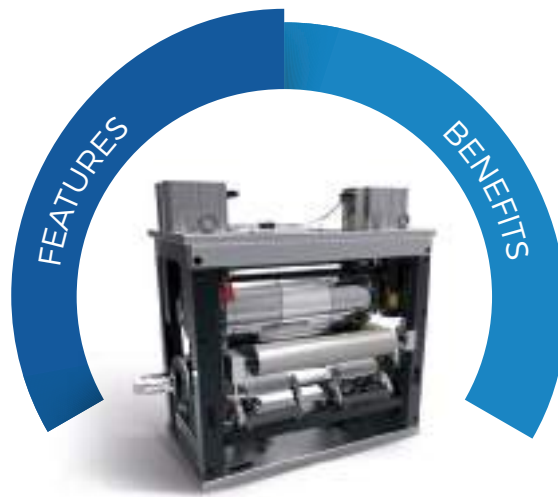
- Automatic pressure and cutting performance records for each tool
- Detailed cutting parameters monitoring for cutter and anvil
 - Thresholds settings and automatic alarms
- Standalone usage or communication with machine programmable logic controller (PLC) through main protocols
- Integrated touchscreen (option)



- Longer production runs through proactive interventions
- Reduced machine stops through preventive maintenance
- Efficiency improvement through continuous learning
- Statistical analysis through accurate data recording

HTC - High Technology Concept

- Vibration damping system to protect anvil and cutting edge
- Tuned mass damper to ensure a stable cut
- Specific vacuum system design for perfect trim and pad control

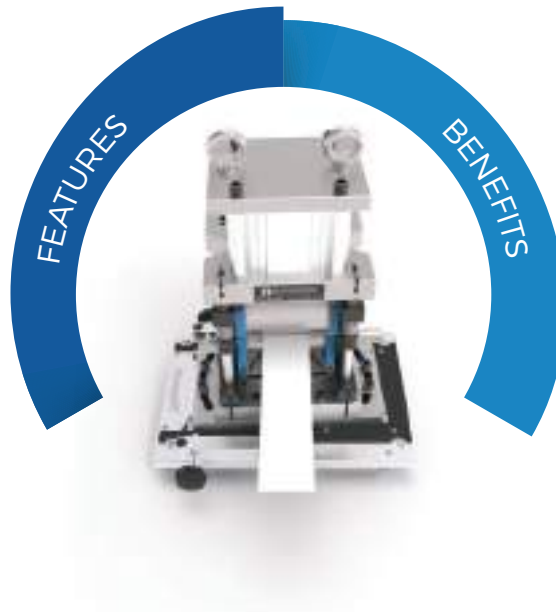


- Stable cut at high speeds or in critical cutting conditions
- Longer cutter and anvil lifetimes (30% to 50%)
- Increased performance and reliability to reduce machine downtimes and spare part and maintenance needs

EXTENSIONS

HELICUT

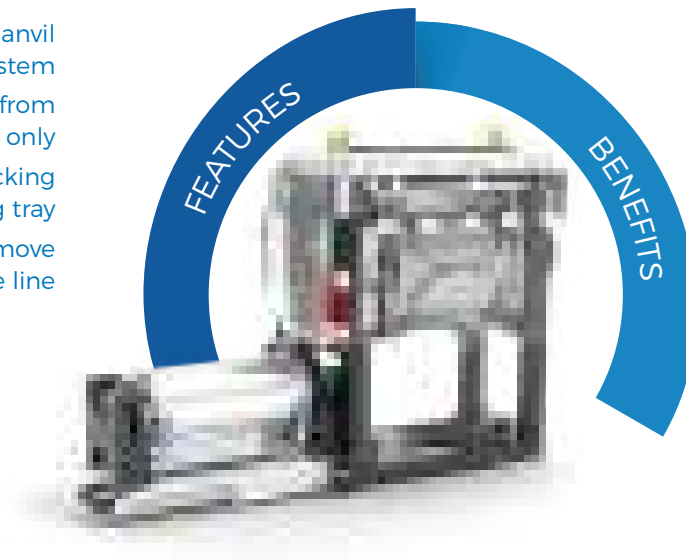
- Adapted especially to straight cut applications; also can be adapted to shaped profiles
 - Helicoidal shape of the cutting profile around the circumference of the cutter, compensated by a tilt angle on the cutting unit
 - Reduced cutting forces proportional to the **tilt angle**



- Perfect **straight cut**, even on long edges
- Smooth cut and no vibrations ensure long-lasting performance for both cutter and anvil
- High efficiency reduces machine downtimes and spare part and maintenance needs

QUICK TOOL CHANGE

- Quick anvil change system
 - Control from operator side only
- User-friendly locking/unlocking and sliding tray
 - No need to remove the frame from the line



- Up to 80% time saving for anvil change
- Higher productivity through reduced machine downtime
- Higher conversion efficiency through lower waste after machine re-start
- Optimization of the spare part needs

DISCOVER OUR SERVICES

Hyperion Materials & Technologies works closely with customers to provide a high level of technical, manufacturing, and after-sales support, with the ultimate goal of generating savings throughout the product life cycle. Contact techservice@hyperionmt.com to learn more about our engineering, after-sales, maintenance, and recycling services.

ENGINEERING

- Design and development of cutting solutions through state-of-the-art 3D CAD systems
- Cutting profile geometry analysis and optimization
- Raw material cutting characterization
- Raw material porosity characterization
- Airflow analysis through computational fluid dynamics (CFD) simulations
- Structural analysis through finite element analysis (FEM) simulations
- Vibration analysis and modeling
- Dedicated test bench for full validation of developed solution
- Central R&D support for carbide expertise.

AFTER-SALES

- Startup assistance
- Operator and maintenance training
- Advanced engineering training
- On-site technical assistance, troubleshooting, and follow-up
- Technical expertise on Hyperion and non-Hyperion solutions on dedicated test bench
- On-site cutting solution audit
- User manuals.



DISCOVER OUR SERVICES

MAINTENANCE

Performance and tool lifetime are important to our customers. Cutters re-sharpened and anvils re-ground by Hyperion have the same performance as new ones. Hyperion re-sharpening and re-grinding capabilities allow our customers to maximize the life and performance of their tools. Our sharpening precision and consistency guarantee the best possible results between re-sharpenings. In addition, our tight tolerances ensure the strictest minimum diameter reduction for both cutters and anvils, which leaves more material for future re-sharpenings, thus maximizing the total lifetime of the tools.

Cutters and anvils are only a part of the cutting application. Hyperion also provides frame maintenance to keep your complete converting line in running order.

Hyperion has maintenance centers in Europe, Asia, and the Americas. Our stringent quality standards ensure consistent quality for our customers, regardless of where they may be located or which Hyperion maintenance center they utilize. Please contact your Hyperion salesperson or email techservice@hyperionmt.com for solutions to all your rotary cutter needs.



RECYCLING

In addition to providing cutting solutions that improve efficiency and eliminate waste, Hyperion can partner with our customers to recycle most carbide materials. In addition to the environmental benefits, customers can reduce their obsolete stocks while at the same time create a source of income.

Hyperion makes recycling easy for you. We will handle the entire process, from the collection of the material to the issuance of payment. Contact recycling@hyperionmt.com to get started.





www.HyperionMT.com

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