

# DYNATECH

PAVEMENT MARKING

DYNATECH.COM

**DYNATECH**  
**PATENTED PCD**  
**HEAD SYSTEMS**



NANOWAVE

NANOROUND

NANOFLAT

**4 TIMES FASTER AND LASTS 10 TIMES LONGER THAN OTHER BLADES**  
**HALF THE COST TO REPLACE**

# PCD Cutterz

PCD - Polycrystalline Diamond



Polycrystalline Diamond (PCD) is diamond grit that has been fused together under high-pressure, high-temperature conditions in the presence of a catalytic metal. The extreme hardness, wear resistance, and thermal conductivity of diamond make it an ideal for our Cutting Heads!

PCD is a composite of diamond particles sintered together with a metallic binder. Diamond is the hardest, and the most abrasion resistant of all materials. PCD consists of micron-sized synthetic diamond powders bonded together by sintering at high pressures and temperatures. These synthetic Polycrystalline Diamonds are produced using a short and powerful explosion that transforms graphite into the Diamond. The process yields Polycrystalline Diamond Crystals each consisting of thousands of micro crystallites bonded together.

The Polycrystalline Diamonds are the only type of diamonds that have self-sharpening properties. Polycrystalline structure will open every time new sharp edges by releasing an outer layer of dull micro crystallites. The Polycrystalline Diamonds can lap and grind any materials faster than any other abrasive while producing the smoothest, scratch-free surface possible.

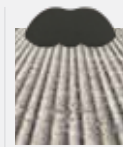
The magic is in the BOND – the size mesh and metals and also the carbide substrate and the way the connection is made between the diamond and the carbide – We make a “Seamless Connection” and also can grind the surface so the thermos and poly will not stick to the cutters and gum up. This is the difference in a quality product from a DIAMOND Company and less from others – because we make higher quality products for less money!

## Small, Medium & Large Diameter PCD Head Systems

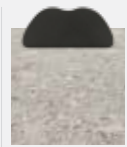
### CHOOSE WAVES, ROUNDS OR FLATS!



**NanoWave** gives a mini corduroy footprint with .009 uniform ridges, perfect for tape installations.



**NanoRound** gives a corduroy foot print like blades. Ideal for aggressive removal and thicker coatings in concrete, asphalt.



**NanoFlat** gives a beautiful glass smooth finish for shaving and removing coatings – better in asphalt.

## HOW CAN PCD'S SAVE ME MONEY?

- The PCD heads are almost the same cost as diamond saw blade heads
- Last 10x longer
- Cut 3-4 times faster
- Thermo Paint and Plasti do not stick to the Cutterz or gum up like carbide/diamond blades
- Choose Asphalt Flat Cutterz, Concrete/Asphalt Rounds or Concrete/Asphalt NanoWave!





# A TOTALLY DIFFERENT WAY TO GRIND



- 4 Times Faster and 10x the life of Diamond Blades!
- Our system is Better Engineered and Better Built
- Replacement costs are HALF of the initial purchase
- Initial purchase is a FRACTION of any competitor

## PCD Cutterz

PCD Cutters have been used for years to drill oil wells and mining hard materials. PCD's are made from the same diamonds that we use to make our Diamond Saw Blades. The small crystals are put in a mold with tremendous heat and pressure, they are turned into a PCD insert. Our specs and bonds are superior to anything else – at Dynatech, the insert is made with higher quality Diamonds, better bonding agents – with a Superior seamless connection, and a stronger Carbide substrate which gives you a faster cutting tool that will last longer and be more profitable.



These PCD inserts have greatly increased the life of the cutting head and the speed at which they cut. Dynatech manufactures PCD heads for all types of machines, From 5.5" OD cutters for Scarifiers to the Large Diameter 20" OD Truck Grinders – Dynatech has the Diamond experience and expertise to make your job MORE PROFITABLE – Diamonds from the Diamond People! Dynatech is also the ONLY company to manufacture Diamond Blades, PCD Heads AND the equipment they go on – walk behind and rider units, skid steer units, and full function truck units!

## OUR PATENTED SYSTEMS ARE ENGINEERED AND BUILT BETTER TO GIVE YOU THE TRUE ADVANTAGE OVER ANYONE

- UNIVERSAL Mounting – For ANY type of machine! 1-3/4"; 2"; 3" - ANYTHING!
- Reduce down time with the ability to change Cutters on existing plates.
- "One time buy" on plates/arbor/end plates means you SAVE!
- 4x FASTER delivering 10 TIMES the Life of Diamond Blades. Reduces your cost per Linear Foot.
- 20% Cheaper.
- Line removal at speeds so fast your vacuum can't keep up!
- Lower Horsepower required - not all pads touch at once like Diamond or Carbide Blades.
- No expensive drum to "balance" or put on with a crane or lift

# PATENTED NANO PCD TECHNOLOGY

- Our patented Nano technology was engineered to insure maximum life and performance of the PCD
- Full face PCD with increased brazing surface protects landing insuring 100% life of PCD
- 3rd Generation of PCD evolution utilizing new matrix resulting in unparalleled performance and life

**INDUSTRY LEADING TECHNOLOGY  
DELIVERING THE STRONGEST BOND  
BETWEEN LANDING AND PCD INSERT**

**SELF-LOCATING W-SHAPED  
CROWN WITH 3 PRESSURE POINTS  
TO ACHIEVE STRONGEST BOND**



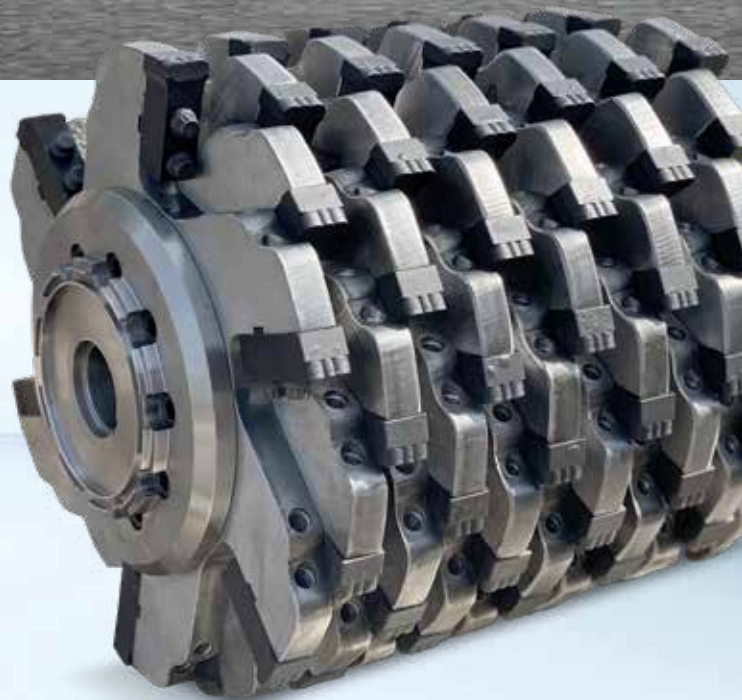
Wave



Round



Flat





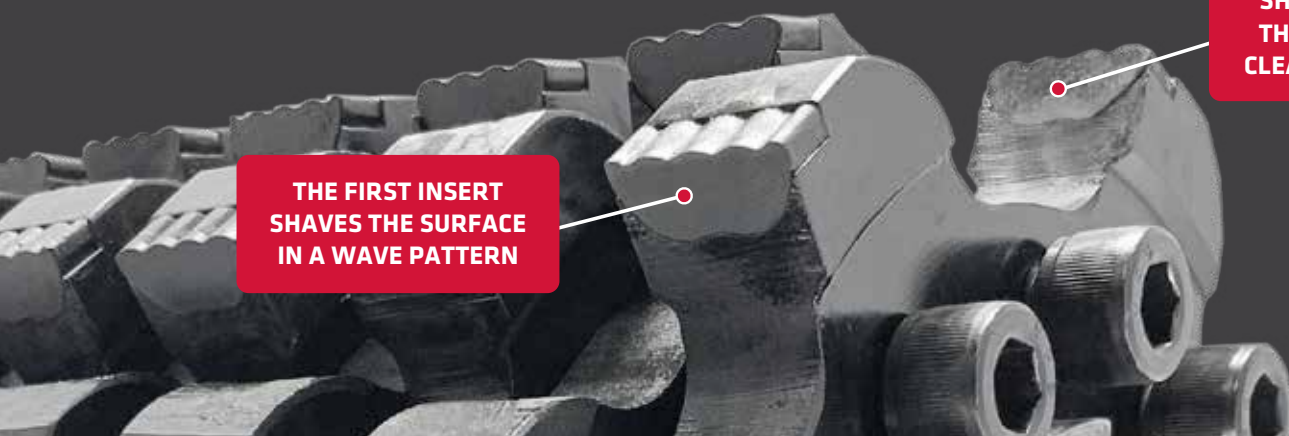


# NANOWAVE

TIGHT CORDUROY DIAMOND BLADE PROFILE

The ABSOLUTE Perfect Surface for Tape, Thermo, and Liquid Marking installations

Perfect .009 Ridge Height identical to a Diamond Blade!



THE FIRST INSERT  
SHAVES THE SURFACE  
IN A WAVE PATTERN

THE SECOND INSERT  
SHAVES OPPOSITE  
THE FIRST WAVE -  
CLEARING THE VOIDS

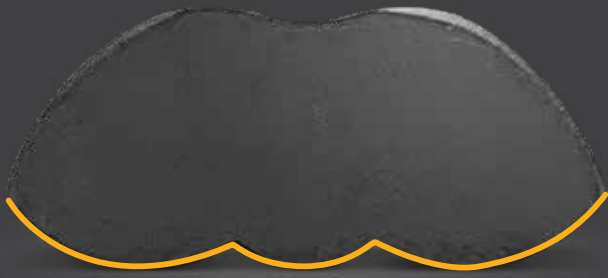
MAINTAINS A PERFECT .009 HIGH  
RIDGE FOR LIFE OF THE HEAD



PATENTED DUAL INSERT DESIGN CONTROLS RIDGE HEIGHTS



*Larger inserts mean more surface area and a stronger more rigid product that can sustain much more abuse and punishment while delivering a perfect profile, longer life and MORE PROFIT!*



# NANOROUND

## CORDUROY PROFILE

The Patented  
NanoRound Series  
delivers a perfect  
profile for  
ALL of your Pavement  
Marking needs!

- *Excellent for concrete*
- *Uniform profile, similar to diamond blades*







## NANOFLAT

EXCELLENT FOR ASPHALT!

The Patented  
NanoFlat Series  
delivers a SMOOTH  
profile for all your  
pavement marking  
needs.



# Large Diameter PCD Head Systems

18", 20", & 24" OD

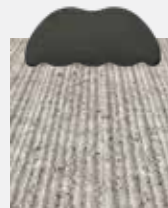


## HIGH HORSEPOWER HEADS MADE FOR LONG LINE PRODUCTIVITY

- Big Truck Systems that go for Miles and Miles
- PCD Formulations & Bonds for Grinder trucks, 4 Function & Plunge Cut Skid Steer Attachments
- HALF THE COST OF THE COMPETITION!
- 2 Bolt System Makes Replacements Inexpensive and Easy!
- Any widths available – Just add spacers!



## CHOOSE WAVES, ROUNDS OR FLATS!



**NanoWave** gives a mini corduroy footprint with .009 uniform ridges, perfect for tape installations.



**NanoRound** gives a corduroy foot print like blades. Ideal for aggressive removal and thicker coatings in concrete, asphalt.



**NanoFlat** gives a beautiful glass smooth finish for shaving and removing coatings – better in asphalt.

- Specialty Designed Systems JUST for YOUR Equipment!
- Solid Structure, Over Built and Engineered
- Speed and Durability Greatly increased!
- Drums and Plates are a One Time Buy!
- Patented System!





*“Our Crew did 50,000 ft  
in one shift alone!”*

# Medium Diameter PCD Head Systems

8", 10", 12" & 14" OD



## **MEDIUM HORSEPOWER AND RIDER MACHINES SPECIALTY!**

- Tight Places and the Power of Big Truck Systems
- PCD Formulations and Bonds Especially for:
  - » Skid Steer Applications
  - » Rider Saw Applications
  - » Mini Grinder Applications
  - » Replaceable Cutters for 12 & 14" OD
- Any widths available – Just add spacers!



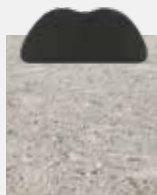
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- **Specialty Designed Systems JUST for YOUR Equipment!**
- **Solid Structure, Over Built and Engineered**
- **Speed and Durability Greatly increased!**
- **Drums and Plates are a One Time Buy!**
- **Patented System!**







# Small Diameter PCD Head Systems

**TIGHT PLACES,  
NO PROBLEM!  
CROSSWALKS, STOP  
BARS, ARROWS!**

## 5.5" OD



## 7" OD



### **LOWER HORSEPOWER SPECIALTY!**

- Specially Designed System makes power MORE efficient
- Solid Structure is long lasting
- Speed and Durability GREATLY increased!
- Mandrel and rings are a one time Buy!
- Patented System allows for faster grinding than any other system available!

**Any widths  
available. Just  
add spacers!**



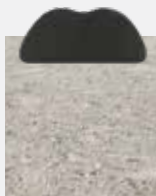
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- PCD heads are almost the same cost as diamond saw blade heads
- Last more than 10 times as long
- Cut 4 times FASTER!
- Thermo Paint and Plasti do not stick to the Cutterz or gum up like carbide/diamond blades
- Will adapt to ANY type of Scarifier or Hand Grinder!

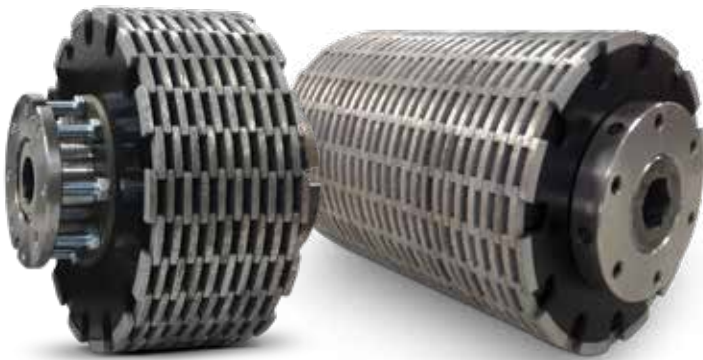






# Diamond Saw Blades

For Inlay / Tape Installation / Line Removal



## **EXPERIENCE:**

Dynatech saw blades have installed more pavement marking materials than all other companies combined!

## **QUALITY:**

Dynatech is the leader in diamond saw blades. Dynatech saw blades far out cut other blades in both speed of cut and footage.

## **PRODUCTION:**

Dynatech custom blends our blades especially for your area and equipment to insure the highest production rates. REAL numbers! Call for raw data figures and highly satisfied customer references!

## **VALUE:**

100,000 plus feet from one set of Dynatech diamond saw blades for tape installation. That's less than .01 cents per foot on a 5" wide cut - THAT'S REAL VALUE! HUNDREDS of THOUSANDS of FOOTAGE from one set of Dynatech saw blades - PENNIES per foot, REAL VALUE!



***We ARE the factory!***  
***We can make ANY size!!***

*Custom sizes are our specialty, we can match existing blades or make any size you need!*  
**ANY SIZE IS POSSIBLE!**



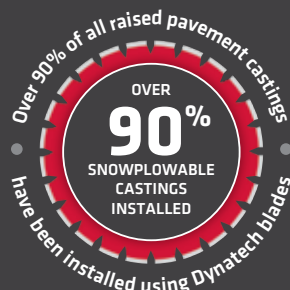
# HISTORY OF DYNATECH

Dynatech Pavement Solutions is a family owned and operated business located in Elyria, OH. We are the industry leader in all aspects of pavement marking products. The first raised pavement markers ever installed were done with blades from Dynatech in 1998.

In 1985, Glenn Mahaffey Sr. opened the doors of Dynatech after a successful career as the Plant Manager for Diamond Products. Glenn started up the factory for Dynatech originally in Columbus OH before moving the facility to Elyria, OH. His intention was to provide the local community with a one stop shop for all their diamond tooling needs in a shop that felt more like his living room. Glenn Sr had a large circle of friends within the construction industry as well as his fellow hot rod enthusiasts. He was joined in the business by his son Glenn Mahaffey Jr in 1990 teaching him everything he had learned over a 30-year career. Affectionally known to their clientele as Sr and Jr, the Mahaffey's built Dynatech into the industry's largest and most admired pavement marking supply company. In 2015, JR's son Chris joined the Dynatech team to make it a multi-generational family business.

In 2005, Sr and Jr took Dynatech to the next level when they spearheaded a major industry shift in how pavement marking was being performed. With the innovation of PCD's to perform the functions that were being done with carbides and diamond blades in the past, PCD's can maximize the performance and efficiency of pavement marking contractors. Over the course of 15+ years, Dynatech worked with their customers in the field refining and improving how PCD's were being used. Listening to the challenges our customers faced with this new technology, we continued to make improvements and made sure that we are able to deliver the most innovative product the market has to offer. Once we felt we had achieved the best product, we patented the technologies that Glenn Sr & Jr worked so hard to achieve.

Since then, Dynatech has developed a full face PCD head with a unique tornado design that not only will improve production time for our customers but save them a ton of money. Unfortunately, Glenn Sr passed away in 2021, but his vision and passion for success can be seen every day in the factory in Elyria and in the long lasting relationships we enjoy with our customers.



# WANT SOME DYNATECH SWAG?

► *T-shirts* ► *Sweatshirts* ► *Hats*

**CALL TODAY  
FOR MORE INFO!**

**1-800-446-9001**



**TRUE DYNATECH PERFORMANCE!**

*True Dynatech quality, real VALUE, and of course, the CUSTOMER SERVICE we are world-renowned for! Let us help get you up and going with this exciting new technology today!*

**DYNATECH**

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info@dynatech.com • www.dynatech.com