



"PRISMA DRESSER" Provides Excellent Dress Consistency and Performance with Polycrystalline Diamond

PRISMA DRESSER Benefits

1 Long Life

PRISMA DRESSER improve's tool life and dress quality by using polycrystalline diamond, proven to be more durable than mono-crystal synthetic diamond which is prone to cracking and shorter tool life.

2 Consistent Dressing Performance

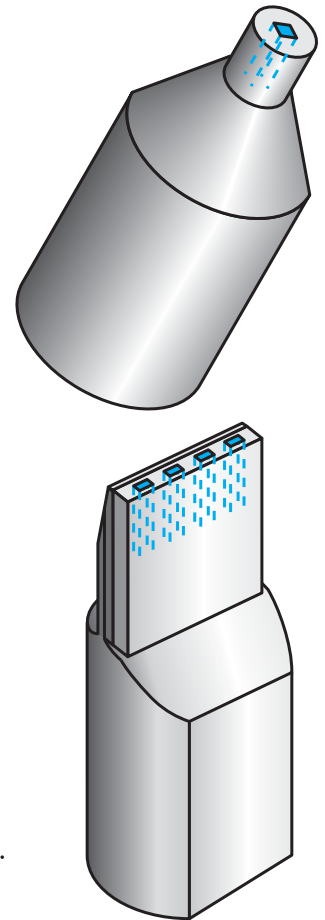
Consistent diamond wear is due to consistent cross sectional area through length of the polycrystalline diamond, making it very suitable for automated dressing operations.

3 Flexible Availability for Various Application

Various polycrystalline diamond dimensions are available to meet specific needs of each application and customer.

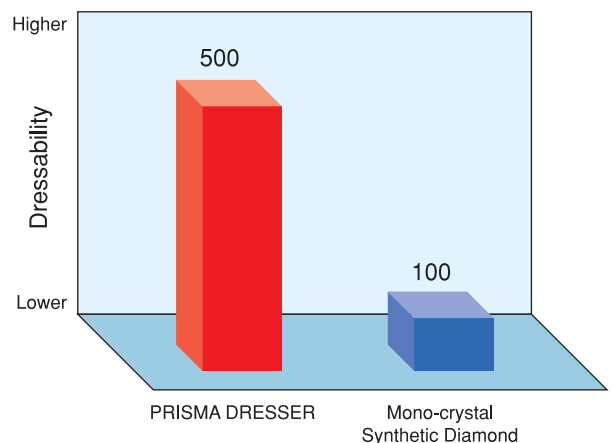
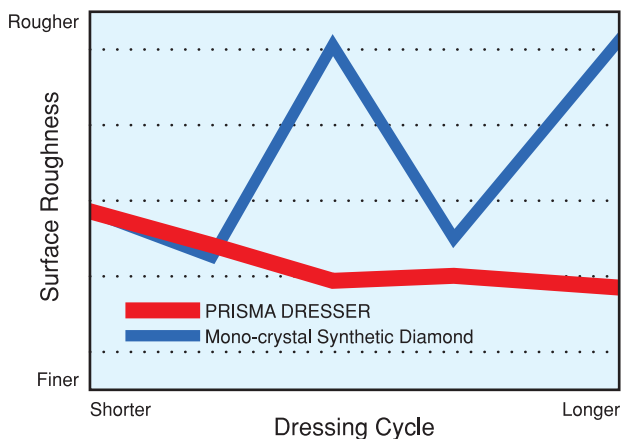
4 Improved Tool Cost

Polycrystalline diamond provides consistent dresser performance and ability through out tool life and no need to orient the diamond.



Performance Comparison:

Polycrystalline Synthetic Diamond VS. Mono-crystal Synthetic Diamond





Type and Feature

PRISMA DRESSER Single Point

Application

Centerless Grinding
Cylindrical Grinding
Internal Grinding

Feature

- No Crystal Orientation
- Consistent dress (Consistent cutting edge)
- Suitable for dressing Vitrified CBN wheels



PRISMA DRESSER Blade Type

Application

Cylindrical Grinding
Angular Grinding
Centerless Grinding

Feature

- Consistent dress (Consistent cutting edge)
- Special tip angle/radius of diamond available for angle grinding
- Suitable for dressing Vitrified CBN wheels



PRISMA DRESSER Formed Type

Application

Angular Grinding
Cylindrical Grinding

Feature

- Consistent grinding performance due to the use consistent crystal orientation in polycrystalline diamond providing even wear on each side of the dresser.



PRISMA DRESSER Cone Point

Application

Angular Grinding
Thread Grinding
Centerless Grinding

Feature

- Consistent dressability because of uniform crystal orientation providing even wear.



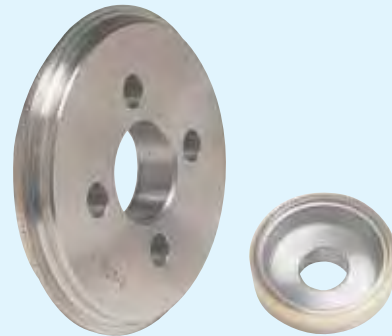
PRISMA DRESSER Roller Dresser Type

Application

Internal and Cylindrical Grinding with Vitrified CBN wheels

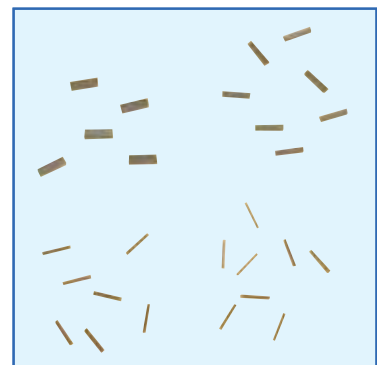
Feature

- Polycrystalline diamond provides uniform wear characteristics while maintaining the same cross sectional area of the cutting edge, providing a consistent dress.
- Suitable diamond size can be selected by size and specification of Vitrified CBN wheels.



Polycrystalline Diamond Size

| Dresser Type | Diamond Width (mm) | Diamond Length (mm) |
|----------------|--------------------|-------------------------------------|
| Single Point | □ 0.2~1.0 | 3~5 |
| Blade Type | | (8mm is available for limited size) |
| Formed Type | □ 2.5 | 2 |
| Cone Type | φ 2 | 2 |
| Roller Dresser | □ 0.2~0.8 | 2~4 |



Body design can be the same as current dresser type or designed to meet specific customer applications.