



KNA^{XT} Armored Carbide Insert Snowplow Blade

Introducing KNA^{XT}, engineered to stand up against Winter's harshest plowing conditions. Composed of Kennametal premium carbide plow blades armored with XT-500 thru hardened high performance steel, offering maximum wear life and optimal impact protection.

Snowplow blades with tungsten carbide inserts

Kueper by Kennametal tungsten carbide blades are specifically designed for a variety of plowing applications.

Kueper by Kennametal uses premium Kennametal tungsten carbide, ensuring high durability and fracture resistance. Combined with high quality steel, Kueper by Kennametal blades provide an excellent match for modern snowplow technology.

A high degree of efficiency is guaranteed through the balance of wear between the tungsten carbide and the steel body, thus insuring the complete use of the tungsten carbide inserts in each snowplow blade.

Resulting in quality, time and cost advantages.

Durability

Kueper^{XT} by Kennametal high quality carbide snowplow blades.

+225%

High quality tungsten carbide and consistent brazing technology armored with unique XT-500 high performance steel ensures top performance and longevity up to 2.25 times that of normal carbide blades.

Kennametal – Basic facts:

- ✓ Oldest and largest US supplier of premium carbide.
- ✓ Kennametal is one of the foremost global manufacturers of wear parts incorporating tungsten carbide.
- ✓ Tools are engineered and produced in the Bedford, PA, USA

XT 500 – Basic facts:

- ✓ Offers the optimal balance of hardness and toughness in an alloy steel while maintaining weldability and formability.
- ✓ Quench, tempered, and thru hardened to achieve BHN 450 - 514 hardness.
- ✓ Excellent depth of hardness achieved by balanced use of chromium, molybdenum, and manganese.
- ✓ High impact and abrasion resistant.

Standard Carbide

KNA^{XT}



XT Wear Parts:

Curb Guards and Wear Plates



XT-500 Steel

High impact, abrasion resistant steel.

Quench, tempered, and thru hardened to achieve BHN 450-514 hardness

Tungsten Carbide

A chemical compound consisting of equal parts tungsten and carbon. It is characterized by its extreme hardness, which is nearly as high as that of diamonds. This material stands up to the toughest loads.



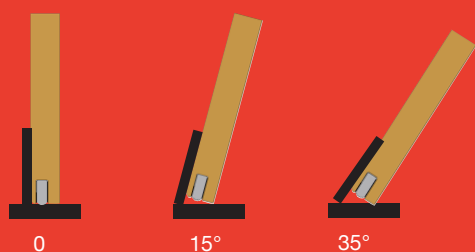
Technology

Kueper and Kennametal developed special brazing techniques in order to ensure a permanent connection between the two materials, which is critical to insure maximized tool life. The production process is controlled using strict criteria and in-process inspection and analysis. For instance, the braze joint quality is checked by means of shear resistance.

These extra efforts pay off in the field of application. During operation, the blades heat up tremendously. Tungsten carbide and steel have different thermal characteristics. This causes enormous nominal tensile stress within the blade when in use.

To counteract this, we employ a special brazing material that resists and absorbs these resultant tensile stresses.

Mounting and Operating Instructions



- Use only grade 8 counter sunk plow bolt and appropriate grade 8 locking hardware
- Torque to 150 foot pounds maximum
- May be used at any angle of operation between 0 and 35 degrees

Kueper North America, LLC, 171 Church Street, Suite 300
Charleston, SC 29401, info@kueperblades.com

843.345.6788
www.kueperblades.com

Areas of use



Highway



Country road



City



Gravel