

Freedom Kit by Mil-Tec®



The Freedom Cutter system is now available in kit form! Featuring the ultimate in face-milling versatility, one body accepts all three insert shapes. Get started on world-class shop productivity with one of these application-specific kits, all featuring our proprietary precision-ground and polished geometric inserts. And when your job changes, your cutter body investment doesn't need to! Simply call your Mil-Tec distributor or our sales hotline and order the proper inserts for your next milling task.



Face-Milling Freedom Kit Contents:

- 1 Freedom Cutter® body with screws
- 10 Precision-ground PVD-coated carbide inserts
- 2 wrenches
- 6 extra screws
- 1 tube anti-seize
- 1 Technical Data sheet



The Mil-Tec Freedom Cutter milling system offers the ultimate in performance and flexibility. Our SmoothGrind grinding process produces mirror-like finishes. In-house SmoothCoat PVD coatings feature Super Nitride technology for maximum tool life and value.

Select a size (now available in Fractional & Metric) and one of the application-specific insert styles shown below under Technical Data:

- 2" or 50 mm Freedom Kit: \$205.00
- 3" or 80 mm Freedom Kit: \$285.00
- 4" or 100 mm Freedom Kit: \$380.00

Made in the U.S.A.
miltecusa.com
toolalliance.com
call (800) 564-5832
fax (239) 368-5038

Freedom Kit by Mil-Tec® Technical Data

<p>KT-NP45L KT-NP45LA2 Grade & Coating: MTC357 TiAlN MTC357 A2 TiAlN</p>	<p>NP Negative / Positive Frustraconical Land SmoothGrind®</p>	<p>Target Material: Carbon, Stainless & Die Steels. Cast Iron. The Negative / Positive high shear cutting blade is the work-horse of the Freedom Cutter® geometry selection. Because of its unique grind design, the NP can machine chip loads up to .018 on metals up to 38Rc. The A2 hone option provides maximum edge strength to reduce chipping when operating at very high feed rates in heat-treated materials.</p>	
<p>KT-PS45L KT-PS45LA2 Grade & Coating: MTC357 TiAlN MTC357 A2 TiAlN</p>	<p>PS Power Shear Medium Dish SmoothGrind®</p>	<p>Target Material: Carbon & Stainless Steels (dry). A2 hone • Exotics, Inconel and Titanium (wet). The Power Shear has a medium dish design relative to the Super Shear. This geometry provides a stronger cutting edge allowing for heavier chip load per blade. The Power Shear is engineered to run up to .010 on 28Rc and under metals, and up to .008 on materials up to 34Rc.</p>	
<p>KT-SS45L Grade & Coating: MTC322 TiB₂</p>	<p>SS Super Shear High Dish SmoothGrind®</p>	<p>Target Material: Aluminum, Copper, other Non Ferrous. The Super Shear is a superb all purpose design and has the highest shear angle in the Freedom Cutter® blade family. The SS provides excellent results on all low horsepower machines, and for the milling of thin workpieces. Use it for chip loads up to .006 per blade on metals 28Rc and below, and up to .018 on Aluminum.</p>	
<p>KT-PS90016 Grade & Coating: MTC357 TiAlN</p>	<p>PS90 Power Shear 90° Medium Dish SmoothGrind®</p>	<p>Target Material: Carbon & Stainless Steels w/90° corners (dry). A2 hone • Exotics, Inconel and Titanium w/90° corners (wet). The Power Shear 90 is identical to the Power Shear except for the addition of geometry allowing for machining of true 90° shoulders. The PS90 is designed for moderate chip loads (.002 - .008 per blade) on all materials up to 32Rc (for harder materials use the GP style).</p>	
<p>KT-SS90016 Grade & Coating: MTC322 TiB₂</p>	<p>SS90 Super Shear 90° High Dish SmoothGrind®</p>	<p>Target Material: Aluminum, Copper, other Non Ferrous w/90° corners. The Super Shear 90 is identical to the Super Shear except for the addition of geometry allowing for machining of true 90° shoulders. The SS90 is designed for moderate chip loads (.002 - .008 per blade) on all materials up to 32Rc (for harder materials use the GP style).</p>	