



DUO-LOCK

by Haimer and Kennametal

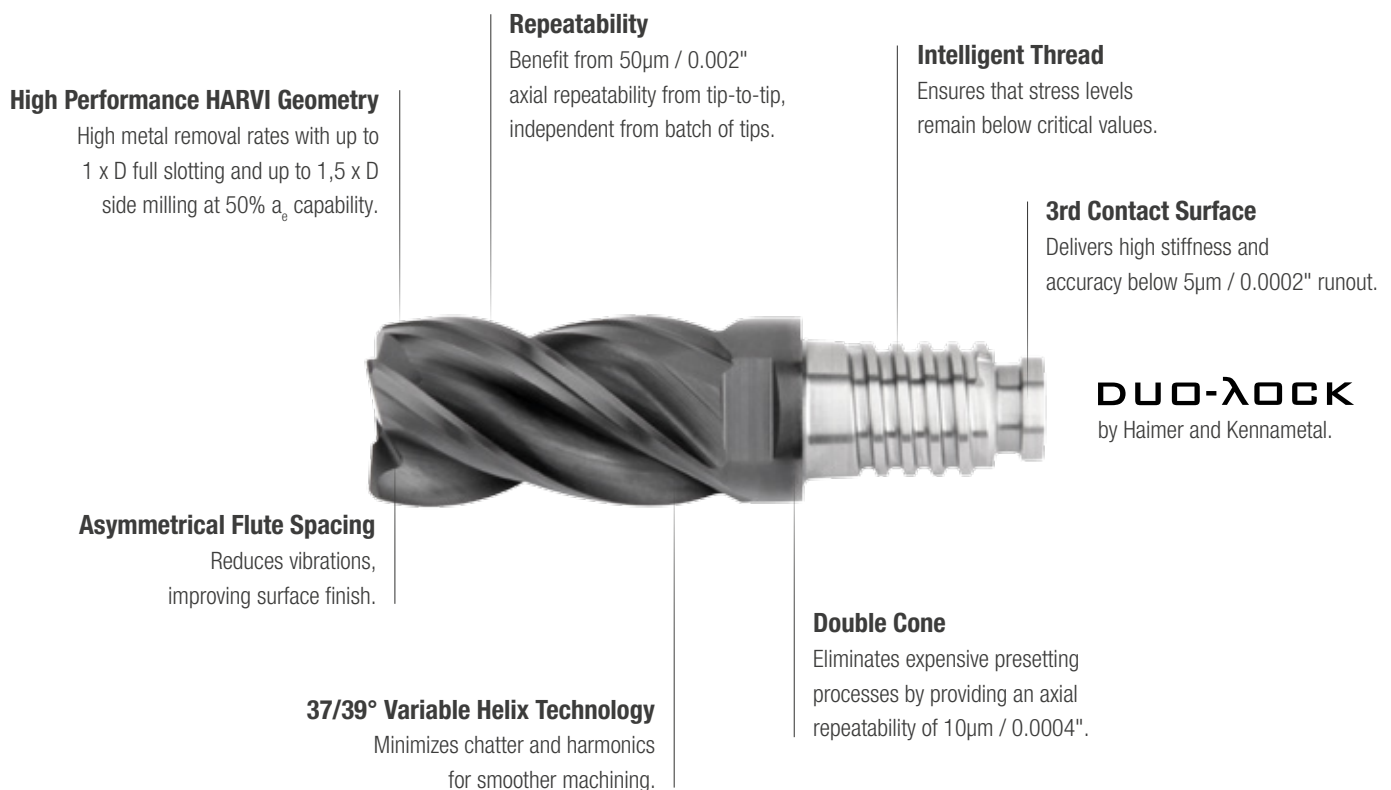
The **ONLY** modular system with the performance of a solid carbide end mill.



Call today and refer to promo code
DL-NORISK

Virtually unbreakable

Duo-Lock is a new revolutionary coupling for solid carbide end milling applications. This replaceable head design combines a high accuracy in runout and length repeatability with maximum stability, making it a precise and virtually unbreakable interface.



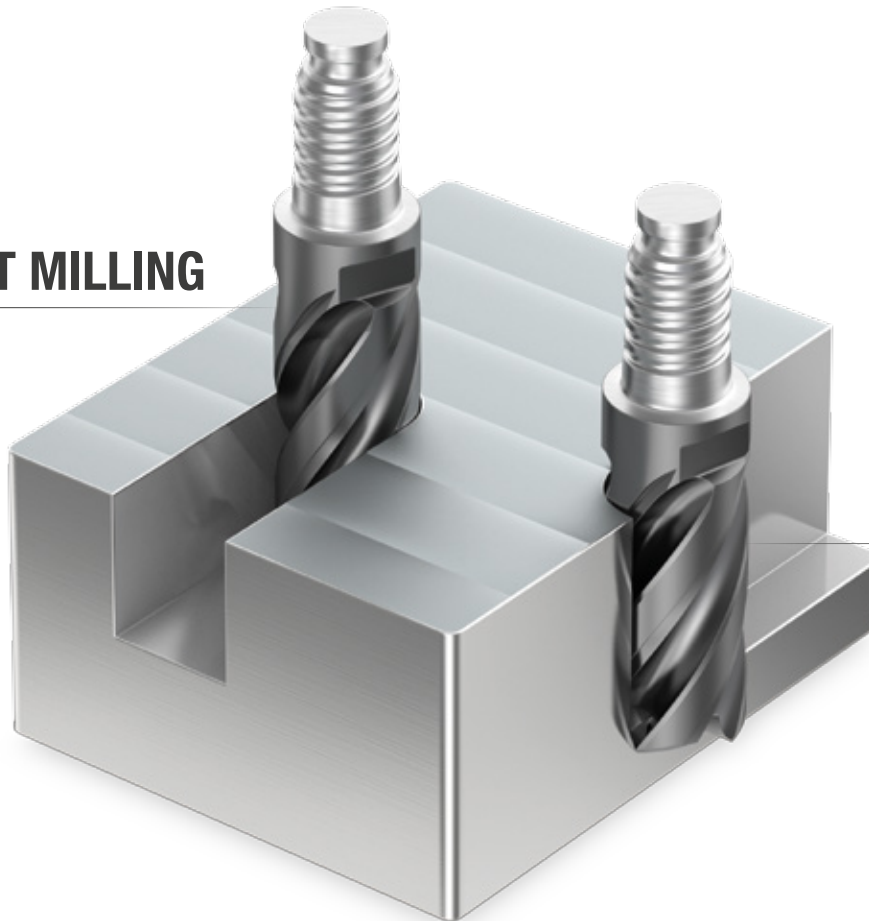
Combining the advantages of modular tooling and maximum productivity.

- Cost effective solution. Especially with large diameters and long length.
- Maximum flexibility in your shop.
- Tool exchange in the machine, no presetting.
- Maximum metal removal rates.
- Repeatable tool life and performance.

Try it now! Performance guarantee at no risk.

FULL SLOT MILLING

1 xD



SIDE MILLING

1.5xD
up to 50%
radial engagement

Call today and refer to promo code ***DL-NORISK***

In fact, we are so confident that we will out-perform your current tooling that we encourage you to test Duo-Lock with a “NO RISK” guarantee.*

If for some reason we do not perform as promised, we will credit you. Guaranteed. No risk.

Rely on Kennametal’s strength and product innovation help you to maximize your productivity and make you more profitable.

That performance boost equates to better results on the shop floor and for your bottom line. Guaranteed.

For more information about Duo-Lock go to **kennametal.com/DUOLOCK**

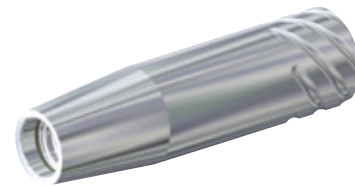
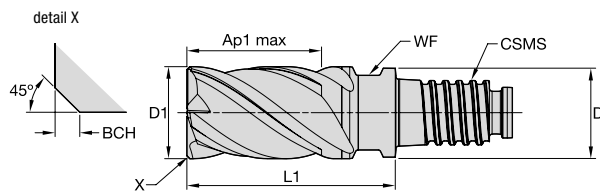
* See next page for products included in this offer.

Get your money back if you are not satisfied.

Try any of these 4 fluted modular end mill tips
in combination with a conical shank.

HARVI 4 Flute UKDV Series in KCPM15*
For steel, stainless steel, and cast iron.

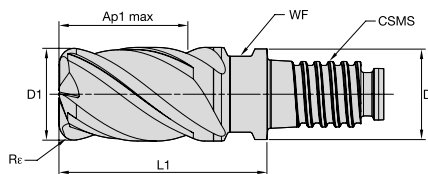
Duo-Lock Conical Shank



or

HARVI 4 Flute ULDV Series in KCSM15*
For stainless steels, and high temperature alloys.

Duo-Lock Conical Shank



* Choose from diameters 10, 12, 16, 20, 25 and 32 mm (3/8, 1/2, 5/8, 3/4, 1 and 1 1/4 inch)

For the current product offering, and application data please check Kennametal.com/DUOLOCK, or download NOVO for free: Kennametal.com/NOVO

NOTE: Duo-Lock conical shanks can be clamped with any adaptor style!

Call today and refer to promo code **DL-NORISK**

Duo-Lock Features & Benefits



- Asymmetrical flute spacing and variable helix configuration minimizes chatter and harmonics for smoother machining.
- Center cutting.
- Single tool for both roughing and finishing operations requiring fewer setups.

- Conical shape for best results in full slot milling and side milling.
- Pull out protection with Safe-Lock™.
- Strongest combination with Safe-Lock™ adaptors or sleeves.

Please note:

- Other adaptor styles can be utilized as well.
- Recommended adaptors: HydroForce, ShrinkFit and Milling Chucks.

Assembly Recommendation:

1. Clean both sides of the coupling before clamping!
2. Use a high quality torque wrench!



Take advantage of our wrench kit offering!

Two-armed torque wrench for Duo-Lock

- For highest runout accuracy.
No one-sided clamping.
- Optimal power transmission by constant force application.
- Maximum torque for highest clamping forces.
- Extension handles recommended for DL25 and DL32.



1 Basic Duo-Lock Wrench



2 Insert



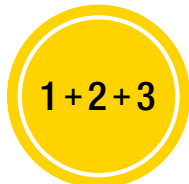
3 Extension Handle



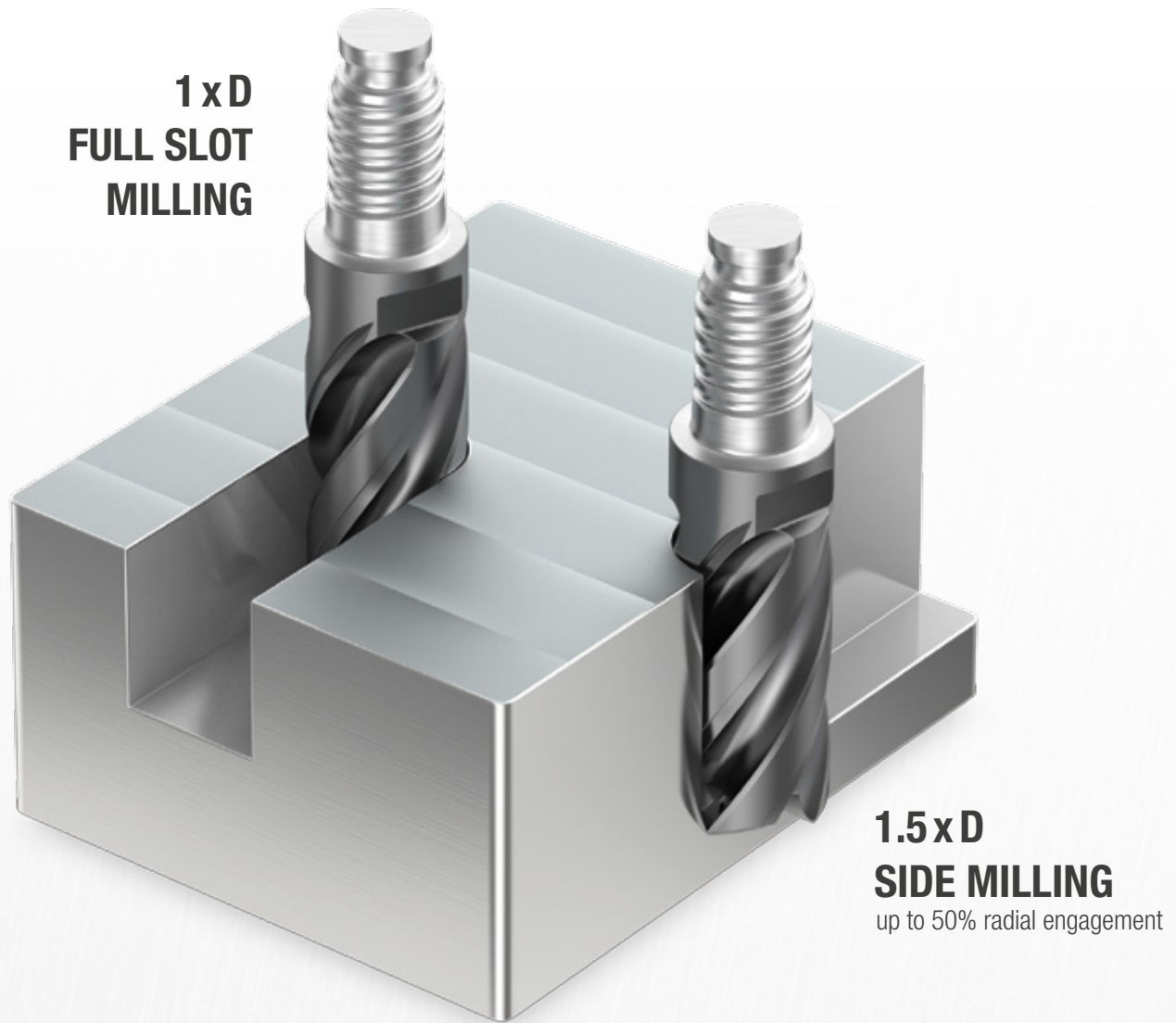
Order this

Get that

Order Number	Catalog Number	Kit Description	List Price in USD
6342967	TWDL10TM	D-L WRENCH WITH DL10 INSERT AND HANDLES	499.00
6342968	TWDL12TM	D-L WRENCH WITH DL12 INSERT AND HANDLES	499.00
6342969	TWDL16TM	D-L WRENCH WITH DL16 INSERT AND HANDLES	499.00
6342970	TWDL20TM	D-L WRENCH WITH DL20 INSERT AND HANDLES	499.00
6343061	TWDL25TM	D-L WRENCH WITH DL25 INSERT AND HANDLES	499.00
6343062	TWDL32TM	D-L WRENCH WITH DL32 INSERT AND HANDLES	499.00



Performance like no other. Guaranteed.



The ONLY modular system capable of 1 x D FULL SLOT MILLING and / or 1.5 x D SIDE MILLING with 50% radial engagement.

The ONLY modular system with the performance of a solid carbide end mill. Try it now at no risk! Call today and refer to promo code *DL-NORISK*

For more information about Duo-Lock go to kennametal.com/DUOLOCK



With NOVO™, tool selection is done in a few minutes, instead of hours.

kennametal.com/NOVO



Terms and Conditions

Kennametal reserves the right to have a Kennametal Sales Engineer assess the application to make recommendations for process improvement in order to achieve the targeted performance.

A request for credit must be submitted to Kennametal within 60 days of shipment of your order and a Returned Materials Authorization will be issued for the product.

All orders are subject to Kennametal's standard terms and conditions of sale. Unused and/or worn tools for which credit has been issued must be returned to Kennametal at the discretion of Kennametal (free-of-charge shipment).

Credit for individual tools will be issued on only one order per customer per year. Credit will be issued as a credit to the customer's account.

Kennametal's liability under this promotion is limited to refunds issued on tooling and does not include damage to workpieces, machinery, or any other consequential damages.

This offer is valid through June 30, 2017. Offer void where prohibited by law. All local, state, and federal laws apply. Offer subject to product availability. Other restrictions may apply. Kennametal Inc. reserves the right to alter or cancel this promotion at any time and without further notice.

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