



WALTER XTRA-TEC® D4580

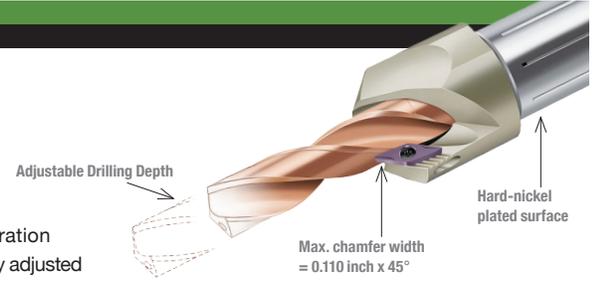
Economic drilling and chamfering in one.

THE TOOL:

- Chamfering tools for solid carbide drills
- Two indexable inserts per chamfering tool
- Can be used with and without through coolant
- Can only be used in hydraulic expansion chuck

THE APPLICATION:

- Enables drilling and chamfering in one operation
- Drilling depth and chamfer width can be flexibly adjusted
- High level of cost efficiency for small and medium-sized batches
- For machines where space in the tool magazine is limited



T | E | N | D | O

from SCHUNK, the right solution for every application



Take Advantage of the Buy 4 TENDO E compact, get 1 FREE!

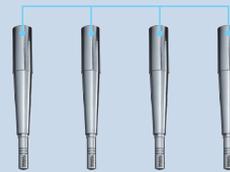
Buy 4 TENDO E compact Toolholders*



Get a FREE TENDO E compact

When You Buy 5 or More TENDO E compacts Then You Qualify For:

Buy 4 TRIBOS Extensions



GET ONE FREE**
Get one free SRE insert per order

SPERONI ESSENTIA TOOL PRESETTING AND MEASURING SYSTEM

The SPERONI ESSENTIA is an entry-level, space-saving Tool Pre-setting and Measuring system that can perform high-quality measurements right next to your machine tool. It allows users to efficiently measure tools offline, allowing the operator to achieve full machine productivity.

The ESSENTIA'S concise and user-friendly controls are designed to optimize all tool pre-setting and measuring operations. The runout function, MaxP, and base post processor are only some of the functions included in the ESSENTIA control. The new vertical graphic interface and the online help function further assists the operator.

STARTING AS LOW AS \$13,500

LEASING AVAILABLE

BIG KAISER
PRECISION TOOLING INC.



PHOENIX PXM END MILLS

OSG's Phoenix PXM end mill series is designed for superior surface finish and precision in a wide variety of applications. Each of the 11 exchangeable head options attach to the body with dual face contact for high rigid clamping and a special buttress thread for fast and easy head exchange. Standard or special tooling, OSG design new and innovative products specifically to shape our customer's dreams.

DREAM it. DESIGN it. SHAPE it.
shaping your dreams



OFFERS VALID THROUGH SEPTEMBER/OCTOBER 2018 - WHILE QUANTITIES LAST
PRICES SUBJECT TO CHANGE WITHOUT NOTICE | SOME RESTRICTIONS APPLY



KenTIP™ FS The Perfect Fusion of a Solid Carbide and an Indexable Drill

The new modular drill KenTIP FS covers more applications and provides better performance than any other modular system, delivering substantial cost savings and process simplifications on your shop floor.

3-point geometries, 3 high-performance grades, 3 different shank styles. This modular drilling system covers a 6–26mm (.2363–1.0236") diameter range. Up to 12 x D drilling depths. Applicable in steel, stainless steel, and cast iron.

Purchase 8 Inserts of the same size or larger in diameter and receive the body at no charge!

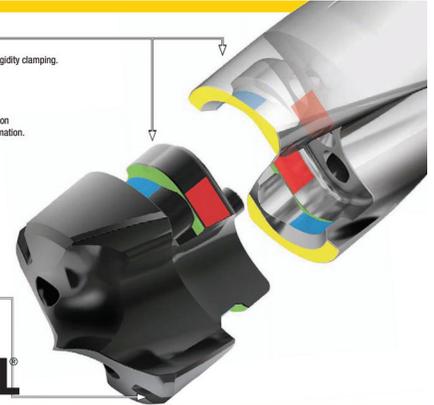


Intelligent Interface

- Taper interface uniquely designed for highest rigidity clamping.
- Retention lock prevents insert pullout.
- Large bearing surface positioned for transmission of highest torsional loads without pocket deformation.
- Large face contact surface.

Maximum performance and long tool life, even in unstable conditions.

Quick Release
Every drill body comes with a KenTIP smart wrench. Insert exchange in the machine becomes easy and saves idle time. And that saves money.



SOLID CARBIDE SPOT DRILLS

FEATURES & BENEFITS:

- ▶ Unique centering point geometry designed for accurate hole location
- ▶ Premium sub-micrograin carbide substrate for abrasion resistance
- ▶ 90° or 120° for drill starters and threaded hole chamfers
- ▶ Bright finished or TiAlN coating for additional tool life
- ▶ 142° for spotting high performance carbide drills
- ▶ Available in inch & metric

NEW!

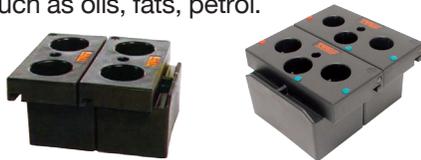


EMUGE

HIGH PERFORMANCE TOOLS

Organize your tools with the ultimate tool holding system

- ▶ Aluminum racks with profiled rails
- ▶ SPACE SAVING! Tool carriers of multiple sizes with 2, 3 or 5 locations for holding tools with a tapered or cylindrical shank.
- ▶ SHOCK PROOF PLASTIC resistant to all substances which are usually present such as oils, fats, petrol.



KELCH

Why should you Get A 4 TEX™ Indexable Carbide Drill

- ✓ **Superior chip evacuation** provided by the 2 twisted coolant holes
- ✓ **Improved hole size** from the stronger core and increased coolant volume
- ✓ **Save money with longer tool life** provided by the 4-sided insert design
- ✓ **Increased penetration rates** due to single effective cutting on light duty machines
- ✓ **Simplified tooling selection** with ISO-specific insert geometry/coating combinations

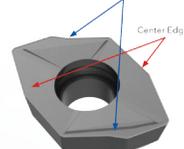


Inserts designed for



System designed for **IMPROVED COST-PER-HOLE**
Twisted coolant outlets for maximum coolant flow

The **4 Edge Advantage**
Periphery Edges



ALLIED MACHINE & ENGINEERING

NEW!

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