

DAREX[®]

WORLD'S BEST SELLING INDUSTRIAL DRILL SHARPENERS

INTERNATIONAL

PRODUCT CATALOG



DAREX, LLC

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DAREX

The World's Best-Selling Industrial Cutting Tool Grinders & Sharpeners

Darex offers a wide range of sharpeners to fit any shop's need. Sharpeners range from the popular V391 for smaller shops, the E90i for sharpening endmills, the versatile XT3000i, to the fully automatic XPS16i CNC that can manage even the heaviest work load.



V391



XT3000i-Auto



E90i



XPS16i

The Darex Story

Darex® began in 1973 in Beecher, Illinois. The **D**, **A**, and **R** of **DAREX** are the initials of three generations of the Bernard family: David, Arthur, and Richard Bernard. David and his father Richard founded Darex. Grandfather Arthur Bernard, who earlier founded the Bernard Welding Company, contributed his energy and guidance to Darex. In 1978, Darex relocated to Ashland, Oregon where they are located today. In 2008, Matthew Bernard became the fourth generation family owner of the company. Since its beginning, Darex has grown to become the makers of the world's best-selling industrial drill sharpeners as well as a full range of commercial and consumer sharpening products. Darex brands include Darex industrial sharpeners, Drill Doctor® professional and home shop drill bit and spade bit sharpeners, and Work Sharp® tool sharpeners. Darex has been helping industry, professionals, and do-it yourselfers stay sharp for almost 40 years.



DAREX

V391

Sharpens Common Point Styles with Ease & Priced Right for Any Small Shop

Get basic precision drill sharpening at an irresistible price. With the V391, even very small shops can quickly sharpen their own tools and keep on working. For the cost of less than 100 drills, you can accurately sharpen your most common drill sizes in under a minute. The Darex V391 incorporates much of the same technology as our more advanced machines and is the perfect choice for intermittent use. Its simple, intuitive design gives everyone access to sharp drills when they need them.



- Drill capacity: 3mm – 19mm
- Point angle: 118° – 140°
- Point style: conic and standard split point
- Power required: 230V, 50Hz, 3.0amp, 1/3hp, 2850 rev/min
- Size/weight: 30x28x23cm, 11kg
- Borazon (CBN) wheel for HSS & cobalt; diamond wheels for carbide are also available
- 3–19mm Morse-Taper chuck also available

OPTIONAL ACCESSORIES FOR THE V391



- V391 Diamond Wheel
Part No. PP11115GF
(optional)



- V391 Wheel CBN 180 Part No. PP11125GF
(Standard replacement wheel)



See the V391 in action online
at www.darex.com.

XT3000i

Create A Wide Variety of Point Styles with Fool-Proof Precision

This expandable tool sharpener grows as your shop's needs grow. When you want the right point for the job sharpened quickly and simply, the Darex XT3000i is your best choice. It sharpens a wide variety of sizes and styles of drills, as well as a wide range of other tools, with ease and accuracy. For the price of a couple hundred drills, you can sharpen in-house for pennies a drill. The XT3000i's chuck/cam design makes it easy for everyone in your shop to be a sharpening expert with just a few minutes of instruction. This is a rock solid, heavy-duty machine capable of sharpening all day, every day. Attachments can be interchanged in seconds and all adjustments can be made without tools.

Incorporating 30 years of sharpening expertise, the Darex XT3000i is the finest, most technologically advanced manual drill/tool sharpener every produced.



- Acceptable drill diameter: 3mm – 21mm (21mm - 30mm option available)
- Point angles sharpened: 118°–150° (90° option available)
- Point styles sharpened: Standard conic and split point
- Acceptable drill length: Unlimited maximum, 2" minimum
- Machine size: 51×51×41cm
- 230V, 50Hz, 1/4hp, 8.0amp, 2850/3450 rev/min
- Machine weight: 31kg
- Sharpening Wheel included: Borazon (CBN) for HSS & cobalt (diamond option for carbide available)
- Grit removal system: Optional vacuum

XT3000i AUTO-SHARP

Everything the XT3000i Does— Automatically



NEW! Introducing the XT3000i Auto-Sharp

The new XT3000i Auto is an affordable way to bridge the gap between a manually operated machine and a fully automated CNC sharpening system. It provides fast payback and is easily integrated into your workflow. It always delivers consistent results regardless of operator skill levels, so it's ideal for multi-shift manufacturing operations and extended production runs. The new XT3000i Auto-Sharp does everything the XT3000i does; but it does it automatically—and at a very affordable price.



**Auto-Sharp Module
Also Available for Your
Existing XT3000i**

OPTIONAL ACCESSORIES FOR THE XT3000i

The XT3000i offers the widest variety of options—so your sharpening capabilities can grow as your shop does.

- Brad point attachment
Part No. LEX200
- Step drill attachment
Part No. LEX250
- Countersink sharpening attachment
Part No. LEX150INTL
- Attachment adapter (needed for any of the above attachments)
Part No. LEX100
- 90°-122° point attachment
Part No. LEX300
- Lg. drill attachment (21–30mm)
Part No. LEX050
- Mini Drill Attachment (1.5 - 9mm)
Part No. LEX350 + LEX351
- 3–12mm left hand chuck
Part No. SA16484TA
- 12–21mm left hand chuck
Part No. SA16488TA
- 3–12mm MT common shank chuck
Part No. SA16402TA
- Quiet, continuous duty, vacuum/filter system
Part No. SA12072EA



See the XT3000 manual & auto sharpeners in action online at www.darex.com.

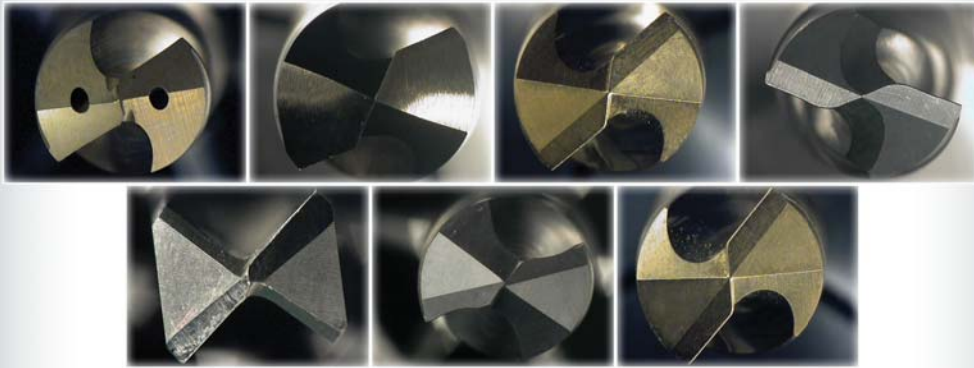
XPS16i

A Fully Automatic 4-Axis CNC Drill Grinder & Sharpener with One-Touch Simplicity

Only CNC can reproduce the complex, high-tech points found on today's premium HSS and carbide drills—and the XPS16i can do it all with the touch of a button. For the price of a couple hundred premium carbide drills, you can sharpen in-house for only pennies a drill. This high-capacity machine can easily sharpen thousands of drills every week. With a user interface as easy to learn and use as a cell phone, everyone in your shop can be sharpening on the XPS16i in just a few minutes. Sharpen pre-programmed points, or program your own custom points. XPS16i is the only machine in the world that can automatically detect the drill's length, diameter, and web thickness—and then sharpen the drill—all in one continuous process without operator involvement.



- Cutting tool diameter: 3mm – 16mm
- Operation mode: Automatic
- Point angles sharpened: 118°–150° (90° option available)
- Point styles sharpened: Standard conic, 4-facet, standard and radius split point
- Power: 230V, 50Hz, 1/2hp, 4.0amp, 3850 rev/min
- Machine size: 66 × 56 × 30.5cm
- Machine weight: 52kg / vacuum 13kg
- Sharpening Wheel included: Borazon (CBN) for HSS & cobalt; diamond for carbide
- Grit removal system: Vacuum



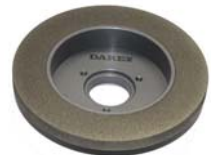
The Darex CNC-XPS-16i 4 Axis sharpener can be programmed to sharpen an infinite variety of high performance points similar to drills made by: Guhring, Mitsubishi, Nachi, OSG, Sumitomo and Titex... to name a few.



OPTIONAL ACCESSORIES FOR THE XPS16



- XPS16 Grinding Wheel
180 CBN
Part No. PP12660GF



- XPS16 Grinding Wheel
220 Grit Diamond
Part No. PP12666GF
- More diamond
sharpening wheels
available!
Visit our website for a
complete list.



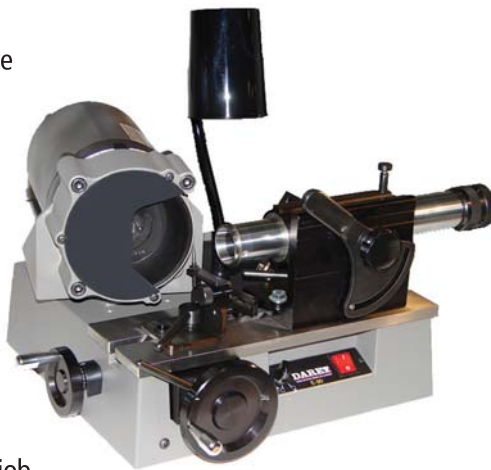
See the XPS16 in action online
at www.darex.com or
call us for more information
at **800-547-0222**.

DAREX

E90i

Easily Sharpens a Wide Variety of Endmills

Now you can sharpen end mills easily and affordably in-house. The endmill is a complicated cutting tool. Both the spiraled flutes and the ends require at least two separate grinds. The E90i makes that difficult job simple. Sharpen the primary and clearance (relief) grinds on the flutes and ends in one easy set-up. The entire process takes about five minutes—then your endmill is ready and back on the job.



- Cutting tool diameter: 1.5mm – 26mm
shank capacity, up to 50mm flute diameter
- 2, 3, 4, and 6 flute HSS, cobalt, and carbide end mills. (optional 5 flute collar available)
- 2° fishtail on the end of the tool
- Maximum flute length: 156mm
- 230V, 50Hz, 1/4hp, 1.6amp, 2850 rev/min
- Size/weight: 45×43×27cm, 33kg
- Resin-bonded CBN wheel included (diamond wheel for carbide optional)

OPTIONAL ACCESSORIES FOR THE E90i








- E90i Borazon Cup Wheel
Part No. PP08626GF



- E90i Diamond Cup Wheel
Part No. PP08624GF



See the E90i in action online
at **www.darex.com** or
call us for more information
at **800-547-0222**.

Product Comparison Chart					
Darex Model	XPS-16i Drill Grinder & Sharpener	XT-3000i Drill Grinder & Sharpener	XT-3000i-Auto Drill Grinder & Sharpener	V-391 Drill Grinder & Sharpener	E90i End Mill Grinder & Sharpener
Ideal for	Shops that demand the precision and productivity of a fully automatic 4-axis CNC sharpener. Also for those that need a simple solution to regrind and hone complex geometry on Carbide drills.	Shops that sharpen a variety of drill sizes and styles and want the advantages of a highly advanced manual drill and tool sharpener.	Does everything the standard XT does, but automates the drill sharpening process for shops with higher sharpening volume requirements and need to eliminate the human influence on the process.	Shops that demand a precision sharpener at a value price that operates quickly and intuitively.	Shops that want to save money by sharpening end mills quickly and easily using a precision air bearing system.
Usage	High Performance	Standard duty	Heavy Duty, High Capacity	Light Duty, Intermittent Use	Standard duty
Grinding Capacity	3–16 mm	3–21 mm (21-30mm option available)	3–21 mm (21-30mm option available)	3–19 mm	1.6–50mm grind capacity, 13-25mm shank diameter capacity
Operation mode	Automatic	Manual	Automatic	Manual	Manual (90 PSI Required)
Angles Sharpened	118°–150° (90° option available)	118°–150° (90° option available)	118°–150° (90° option available)	118°–140°	2° fishtail
Point Angle Styles Sharpened	Standard conic, 4-facet, standard and radius split point	Standard conic and split point	Standard conic and split point	Standard conic and split point	2, 3, 4, & 6-flute HSS, cobalt & carbide end mills (5-flute collar option available)
Machine Size	66 x 56 x 30.5 cm	51 x 51 x 41 cm	51 x 51 x 41 cm	30 x 28 x 23 cm	66 x 56 x 30.5 cm
Sharpening Wheel included	Borazon (CBN) for HSS & cobalt; diamond for carbide	Borazon (CBN) for HSS & cobalt (diamond option for carbide available)	Borazon (CBN) for HSS & cobalt (diamond option for carbide available)	Borazon (CBN) for HSS & cobalt (diamond option for carbide available)	Resin-bonded CBN wheel (diamond option for carbide available)
Grit removal system	Standard	Optional	Optional	Optional	N/A

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