



EHWA[®]

DIAMOND^X

*New Diamond Tools for
Demanding Metal-Working Applications*

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DIAMOND^X is a new generation of tools for the metal-working industry. **DIAMOND^X** concentrates a large number of diamond grits on a single layer with incredibly strong bond. This technology allows **DIAMOND^X** to cut and grind materials that traditional diamond tools could not.

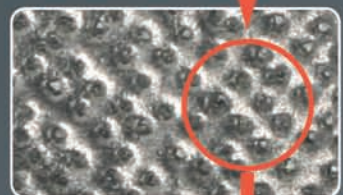
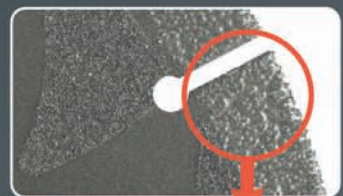
DIAMOND^X can cut and grind an extremely wide range of materials such as:



- High & Low Carbon Steel
- Hard Facing Alloys
- Ductile Iron
- Cast Iron
- Rail Track
- Steel Section, Bar & Tube
- Wood, Plastic, FRP, PVC
- Weld Removal

● What is **DIAMOND^X**?

DIAMOND^X is made with diamonds, the hardest natural material known to mankind. It is manufactured by a unique brazing technology that allows a high concentration of diamonds to be chemically and mechanically bonded on to the steel surface. The resulting tool life is far greater than the standard abrasives such as aluminum oxide, zirconia alumina, or silicon carbide. With **DIAMOND^X**, you can expect each tool to last many times (^X) longer than the standard abrasives.



BENEFITS OVER CONVENTIONAL ABRASIVES

- **Cost Efficiency : Long Tool Life and Less Down Time**

DIAMOND[®]X delivers cost efficiency with much longer tool life, and downtime in changing worn abrasives is also dramatically reduced.

- **Environmentally and Operator Friendly :**
Reduced Sparks, Less Debris and No Odor

Traditional abrasives produce a high volume of sparks and odor as well as debris from the abrasives wearing down. With **DIAMOND[®]X**, sparks are greatly reduced, odor eliminated, and the only debris left is the material being worked.

Reduced Sparks



Less debris



- **Safety : Wheel Breakage Eliminated**

Traditional bonded abrasives are susceptible to fracture and breakage that can cause injuries. This is a serious safety concern for many users. **DIAMOND[®]X**, which comprises a solid steel body with diamond grits brazed on to the surface has greatly reduced risk of fracture.

- **Wheel Wear : No Reduction in Tool Size or Shape**

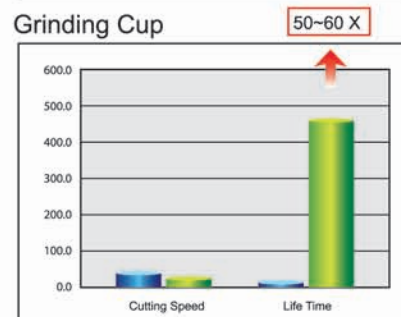
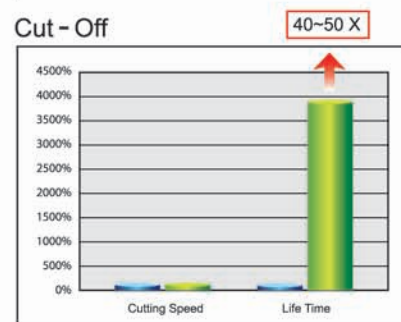
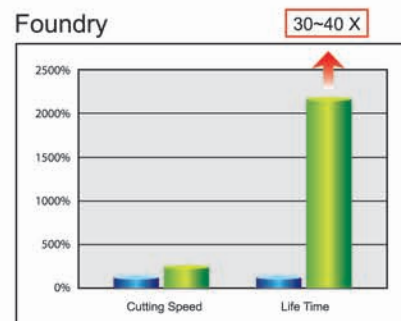
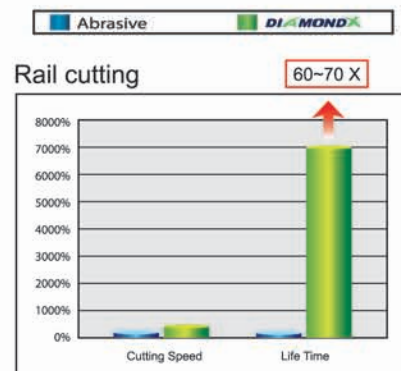
The disadvantages of traditional bonded abrasives are short tool life and continuously changing tool size and shape during usage. **DIAMOND[®]X** offers extended tool life and its size and shape does not change through out its tool life.

- **Application : Variety and Versatility**

DIAMOND[®]X offers a wide variety of tools for cutting, grinding, weld joint removal, forming, and surface prep work. Additionally, each **DIAMOND[®]X** tool is extremely versatile and the same tool can be used on ferrous and non-ferrous metals as well as ceramics and polymers.

Performance Example :

DIAMOND[®]X vs Abrasive



• DEPRESSED CENTER GRINDING DISCS



PART NO.	DIAMETER (mm)	ARBOR (mm)
DXA2720P04	4" (100mm)	20, 22.23
DXA2720P45	4.5" (115mm)	22.23
DXA2720P05	5" (125mm)	22.23
DXA2720P06	6" (150mm)	22.23
DXA2720P07	7" (180mm)	22.23
DXA2720P09	9" (230mm)	22.23

Additional : Available with flange



Application : Weld removal, pipe beveling and stock removal of all ferrous and non-ferrous metals including mild steel, stainless steel, alloy steels, ductile materials, and hard-face metal alloys

• GRINDING DISCS (FLAT)



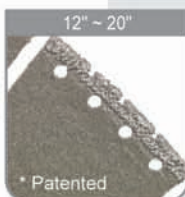
PART NO.	DIAMETER	THICKNESS (mm)	ARBOR (mm)
DXA0125P0425	4" (100mm)	6	20, 22.23
DXA0125P4525	4.5" (115mm)	6	22.23
DXA0125P0525	5" (125mm)	6	22.23
DXA0125P0625	6" (150mm)	6	22.23
DXA0125P0725	7" (180mm)	6	22.23
DXA0125P0925	9" (230mm)	6	22.23

Additional : With reversible flange.
Reversible face



Application : Weld removal, pipe beveling and stock removal of all ferrous and non-ferrous metals including mild steel, stainless steel, alloy steels, ductile materials, and hard-face metal alloys

• CUT - OFF WHEELS



PART NO.	DIAMETER	THICKNESS (mm)	ARBOR (mm)
DXC0125P4509	4.5" (115mm)	2.2 / 2.5	22.23
DXC0125P4509	5" (125mm)	2.2 / 2.5	22.23
DXC0125P4509	6" (150mm)	2.5 / 2.8	22.23
DXC0125P4509	7" (180mm)	2.5 / 2.8	22.23
DXC0125P4509	8" (200mm)	2.5 / 2.8	22.23
DXC0125P4509	9" (230mm)	2.5 / 2.8	22.23
DXC0125P4509	10" (250mm)	2.5 / 2.8	22.23
DXD0130P1212	12" (302mm)	3.1	20, 25.4
DXD0130P1412	14" (352mm)	3.1	20, 25.4
DXD0130P1612	16" (409mm)	3.1	20, 25.4
DXD0130P1814	18" (459mm)	3.3	20, 25.4
DXD0130P2014	20" (510mm)	3.7	20, 25.4



Application : Foundry-gate / Riser removal, Cutting forging, Sheet metal, Pipe, Metal plate, Round & Sectional tubing, Steel bar, Angle iron, Cast iron, Ductile iron, Metal studs, Carbon / Mild steel

CUTTING AND GRINDING DISCS (FLAT)



PART NO.	DIAMETER	THICKNESS (mm)	ARBOR (mm)
DXB0125P0413	4"(100mm)	3.3	20, 22.23
DXB0125P4513	4.5"(115mm)	3.3	22.23
DXB0125P0513	5"(125mm)	3.3	22.23
DXB0125P0713	7"(180mm)	3.3	22.23
DXB0125P0913	9"(230mm)	3.4	22.23

Additional : With reversible flange.
Reversible face



Application : Foundry-gate / Riser removal,
Cutting forging, Steel metal, Pipe, Sectional tubing,
metal plate, Shipbuilding, Steel bar, Ductile iron,
Hard face metal alloys

CUT - OFF WHEELS FOR RAIL



PART NO.	DIAMETER	THICKNESS (mm)	ARBOR (mm)
DXE0120P1415	14"(352mm)	3.9	20, 25.4
DXE0120P1615	16"(409mm)	3.9	20, 25.4



Application : Railroad

MOUNTED POINTS, SNAGGING - CONES, PLUGS & CUPS



A38

A25

A12

A1

A39



T16

T17

T18R

T18

T6 / 11



Application : Weld and stock removal of all
ferrous and non - ferrous metals including mild
steel, stainless steel, alloy steels, ductile
materials, and hard - face metal alloys

* Custom shapes are available on request



DIAMOND X



Use approved safety guards and protective goggles.

EHWA DIAMOND IND. CO., LTD.

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