



DIAMOND DRESERS

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Overview

A Diamond Dresser is an industrial abrasive composed of industrial-grade diamonds and a metal base. It serves as a versatile tool utilized in various industries, including grinding and dressing tools, grinding stones, ceramics, and other applications. The Diamond Dresser is commonly employed for grinding and dressing grinding wheels and sanding belts, resulting in finer and more precise grinding surfaces.



Scope

This catalog details the shapes and dimensions of diamond dressers utilized for dressing, turning, and forming purposes. Each shape and size of the diamond dresser possesses unique uses and features tailored to meet specific needs across various applications. SUNDI offers an extensive selection of diamond dressers, providing comprehensive solutions for diverse grinding and dressing requirements.

Terminology

In the standard definitions, the following terms are used:

- **Dressing**

The process of exposing new abrasive grain and new sharp cutting edges.

- **Turning**

The process of forming the working face of the grinding wheel so that it is concentric to the axis of the grinding wheel.

- **Forming**

The process of shaping the precise form of the grinding wheel, screw grind wheels, and geared grind wheels into the required shape.

Note: SUNDI's diamond dressers are typically mounted using sintering, ensuring that the raw stone remains securely in place during use, eliminating any risk of dislodging or movement. This installation method provides stability and extends the service life of the diamond dresser. SUNDI's diamond dressers are meticulously designed to deliver high-quality and dependable performance, with a keen focus on meeting the specific needs of our customers.

Standard Dresser Shank Shapes And Their Referring Tools

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Typical Wheel Forms Dressed by Stationary Diamond Tools

Find the applicable wheel form to select the right products.

 Straight	 Tapered	 Convex
 Concave	 Angled	 Multi-Angled

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Recommended Diamond Dresser By Wheel Shape

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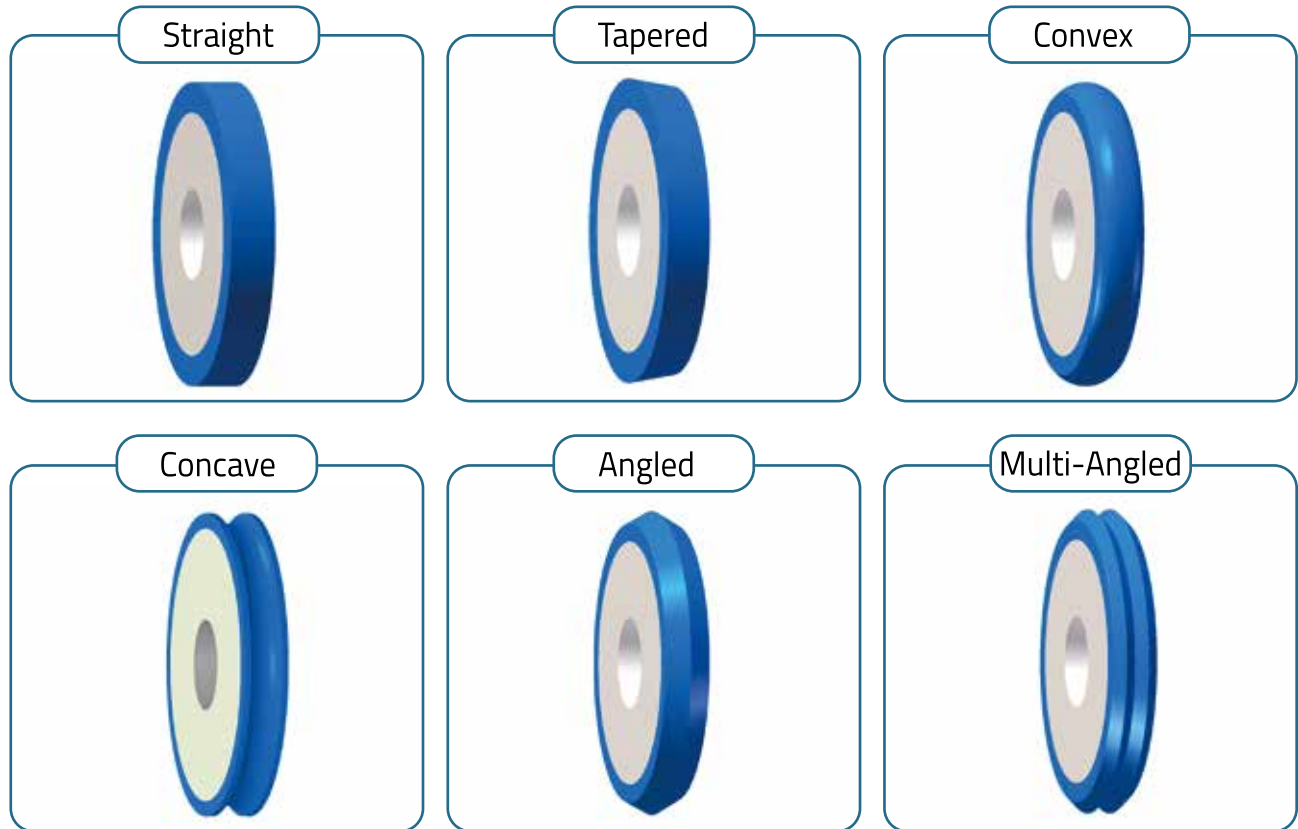
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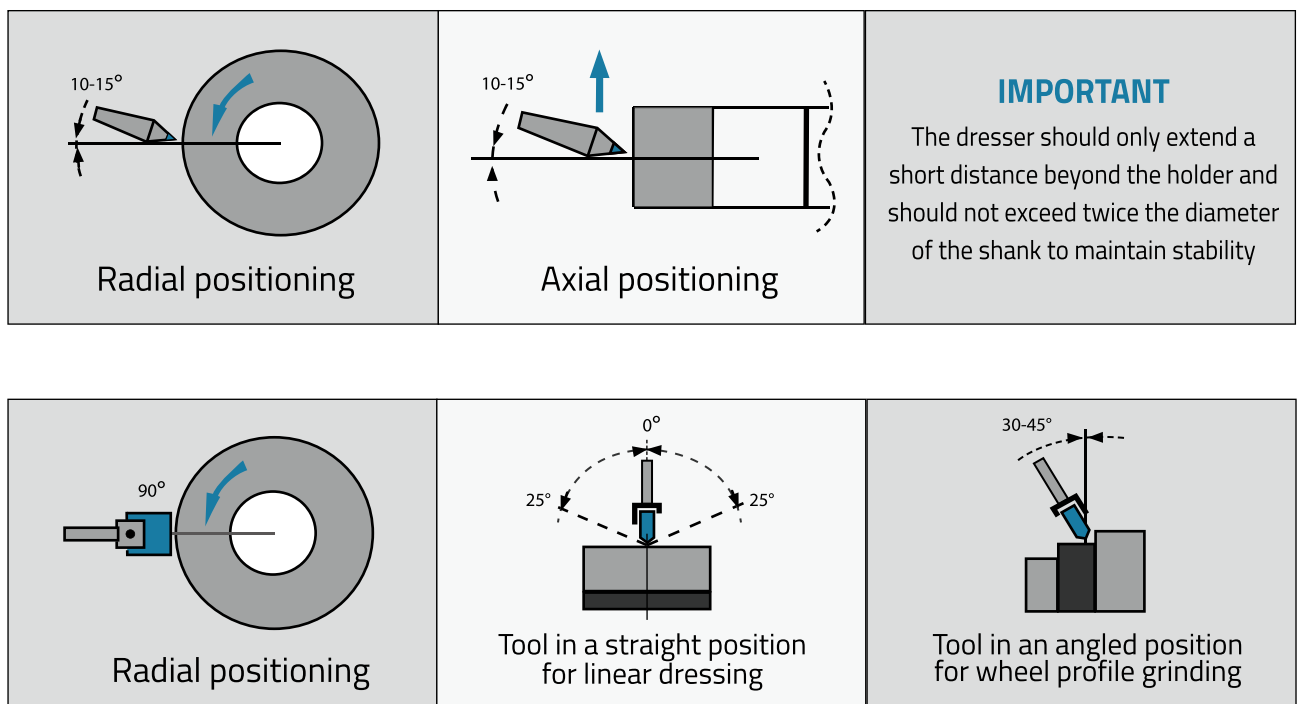
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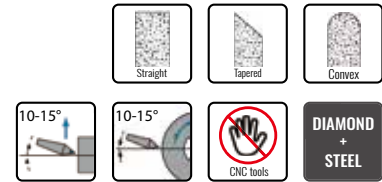
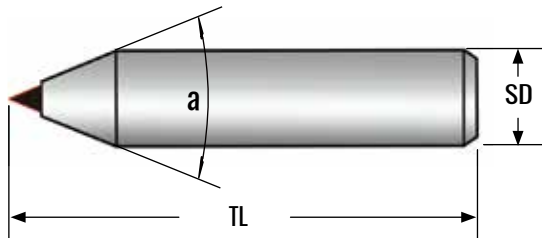


Positioning Of The Dressing Tool



Diamond Dresser Single Point Grinding Wheel Tapered Point Tool

Product Description: Diamond dresser for high-efficiency dressing of conventional vitrified/ceramic bond grinding wheels made of aluminum oxide and silicon carbide. Suitable for most bench, surface, cylindrical, and internal grinding applications.

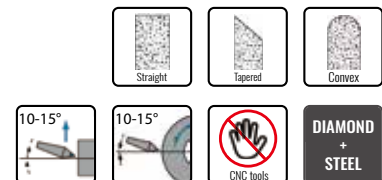
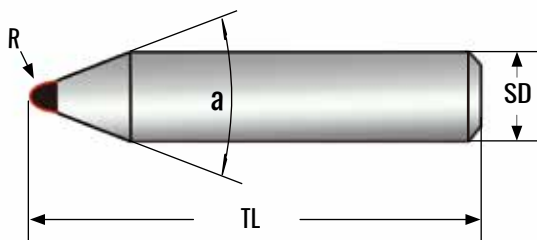


Order NO.	TL [mm]	SD [mm]	a Angle
DB-0001	25	3	60°
DB-0002	20	4	60°
DB-0003	40	5	60°
DB-0004	25	6	80°
DB-0005	80	8	90°
DB-0006	80	10	90°
DB-0007	30	11	90°
DB-0008	80	12	90°

Mainly Application: Dressing of small to medium / thickness grinding wheels / general use.

Plunge Dresser

Product Description: Plunge dresser used to create a concave radius in the center of a grinding wheel by plunging. Recommended for maintaining accuracy over time.



Order NO.	TL [mm]	SD [mm]	R [mm]	a Angle
DP-0001	25	6	0.02	60°
DP-0002	50	10	0.02	60°
DP-0003	100	11	0.02	60°
DP-0004	25	6	0.1	80°
DP-0005	50	10	0.02	90°
DP-0006	27	6	0.05	90°
DP-0007	35	8	0.2	90°

Mainly Application: Dressing of small to medium / thickness grinding wheels / general use.

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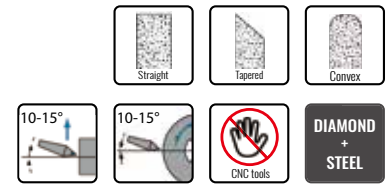
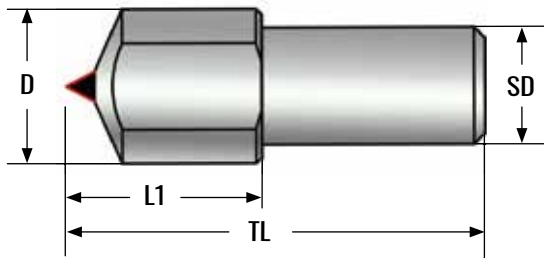
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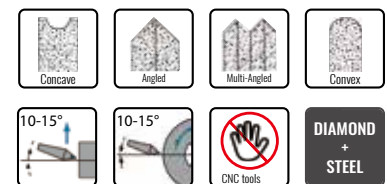
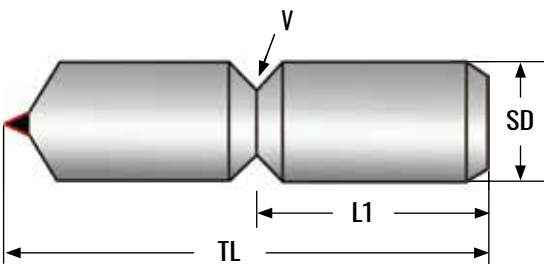
Single Point Tool

Product Description: Single-point tool used for dressing grinding wheels. Choose a tool based on abrasive type: aluminum oxide, silicon carbide, or ceramic.



Order NO.	D [mm]	L1 [mm]	TL [mm]	SD [mm]
DF-0001	9	21	31	6
DF-0002	12	12	27	6
DF-0003	12	20	35	6
DF-0004	9	17	25	7
DF-0005	12	22	31	9
DF-0006	16	26	42	9
DF-0007	16	20	28	11
DF-0008	16	18	35	11
DF-0009	18	40	57	12

Mainly Application: Dressing of small to medium / thickness grinding wheels / general use.



Order NO.	L1 [mm]	TL [mm]	SD [mm]	V
DA-0001	4	8	6	90°
DA-0002	7	16	10	90°
DA-0003	9	20	10	90°
DA-0004	16	35	11	90°
DA-0005	20	40	11	90°

Mainly Application: Dressing of small to medium / thickness grinding wheels / general use.

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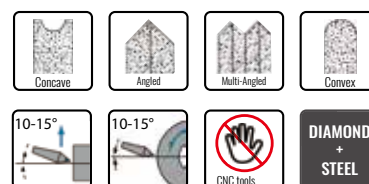
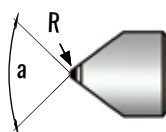
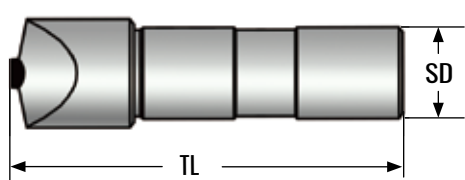
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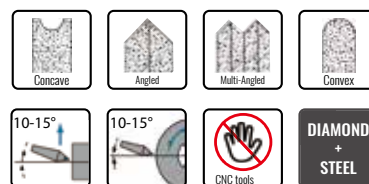
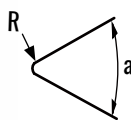
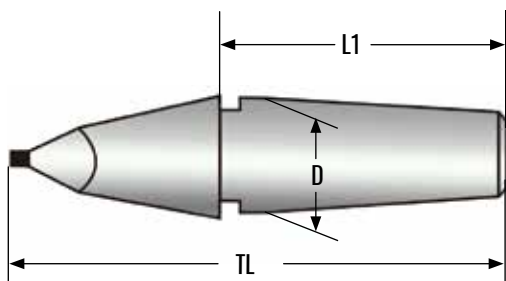
Chisel Diamond Dresser

Product Description: Chisel diamond dresser used for creating concave and convex radii on wheels of various sizes, for contour dressing on center-less grinders and for angle head dressing.



Order NO.	TL [mm]	SD [mm]	R [mm]	a Angle
DC-0001	45	9.52	0.05	40°
DC-0002			0.25	
DC-0003			0.50	
DC-0004			0.125	
DC-0005	45	9.52	0.25	60°
DC-0006			0.5	
DC-0007			0.75	
DC-0008			0.125	

Mainly Application: Precision profile / grinding conventional / grinding wheels.



Order NO.	D [mm]	L1 [mm]	TL [mm]	R [mm]	a Angle
DH-0001	12	24	42	0.2	45°
DH-0002	12	24	42	0.2	55°
DH-0003	12	30	44	0.4	70°
DH-0004	12	32	47	0.5	58°

Mainly Application: Precision profile / grinding conventional / grinding wheels.

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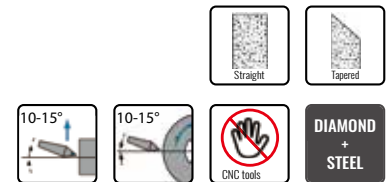
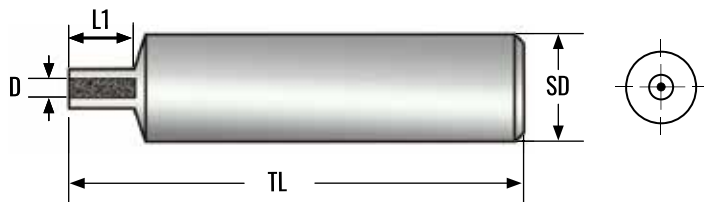
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Diamond Grit Impregnated Dresser Diamond

Product Description: Diamond grit impregnated dresser used for adjusting the surface and form of cylindrical grinding wheels and other applications. Composed of a soft metal matrix infused with fine diamond powder for precision shaping.



Order NO.	D1 [mm]	L1 [mm]	TL [mm]	SD [mm]
DV-0001	3	3	50	8
DV-0002	3	5	50	10
DV-0003	3	8	50	11
DV-0004	4	5	50	8
DV-0005	4	8	50	11
DV-0006	4	10	50	11
DV-0007	5	5	50	8
DV-0008	5	8	50	10
DV-0009	5	10	50	11
DV-0010	3	3	25	6
DV-0011	5	5	30	6

Mainly Application: Surface grinding.

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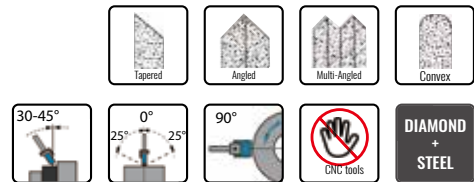
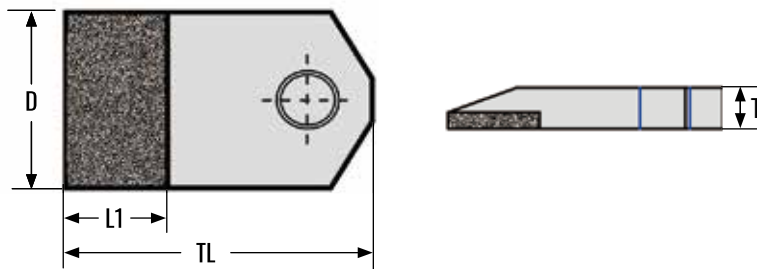
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Blade-type Diamond Dresser

Product Description: Blade-type diamond dresser specially recommended for angular and centerless grinders. Non-crushed natural grains are uniformly set in a special pattern.



Order NO.	D [mm]	L1 [mm]	TL [mm]	T [mm]
DT-0001	10	10	28	0.75
DT-0002	10	10	28	0.9
DT-0003	10	10	28	1.1
DT-0004	10	10	28	1.14
DT-0005	10	15	33	0.75
DT-0006	10	15	33	0.9
DT-0007	10	15	33	1.1
DT-0008	10	15	33	1.14
DT-0009	15	15	28	0.75
DT-0010	15	15	28	0.9
DT-0011	15	15	28	1.1
DT-0012	15	15	28	1.14

Mainly Application: Precision profile / grinding conventional / grinding wheels.

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