



Diamond Dresser

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Overview

Diamond Dresser is an industrial abrasive made from industrial-grade diamonds and a metal base. It is a versatile tool used in various industries, including grinding and dressing tools, grinding stone, ceramics, and other applications. Diamond Dresser is commonly used for grinding and dressing grinding wheels and sanding belts to achieve finer and more precise grinding surfaces.



Scope

This catalog describes the shapes and dimensions of diamond dressers used for dressing, turning, and forming. Each shape and size of the diamond dresser has unique uses and features to meet the specific needs of different applications. SUNDI offers a wide range of diamond dressers to provide comprehensive solutions for various 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**

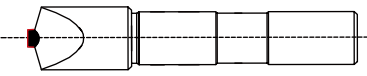


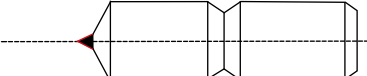
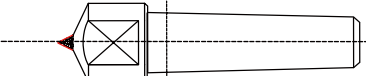
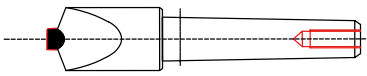
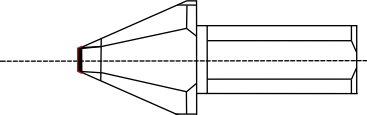
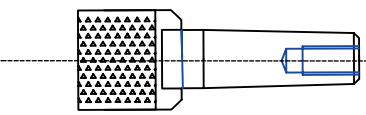
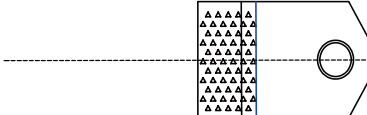
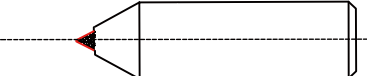

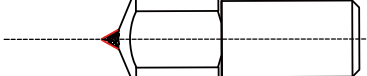
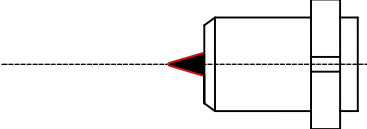
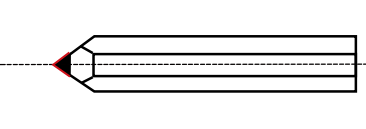
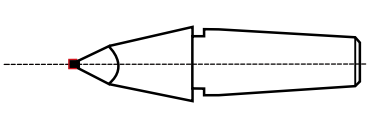
The process of forming the working face of the grinding wheel so that it is concentric to the axis of the grinding wheel.

- **Forming**

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

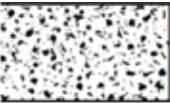

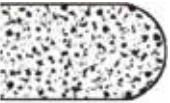
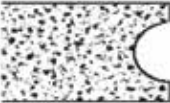
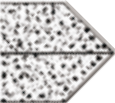
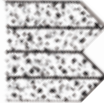
Note: SUNDI's diamond dressers are typically mounted using sintering, which ensures that the raw stone remains securely in place during use without any risk of dislodging or movement. This method of installation provides stability and a longer service life for the diamond dresser. SUNDI's diamond dressers are designed to provide high-quality and reliable performance, with a focus on meeting the specific needs of customers.

Standard Dresser Shank Shapes And Their Referring Tools

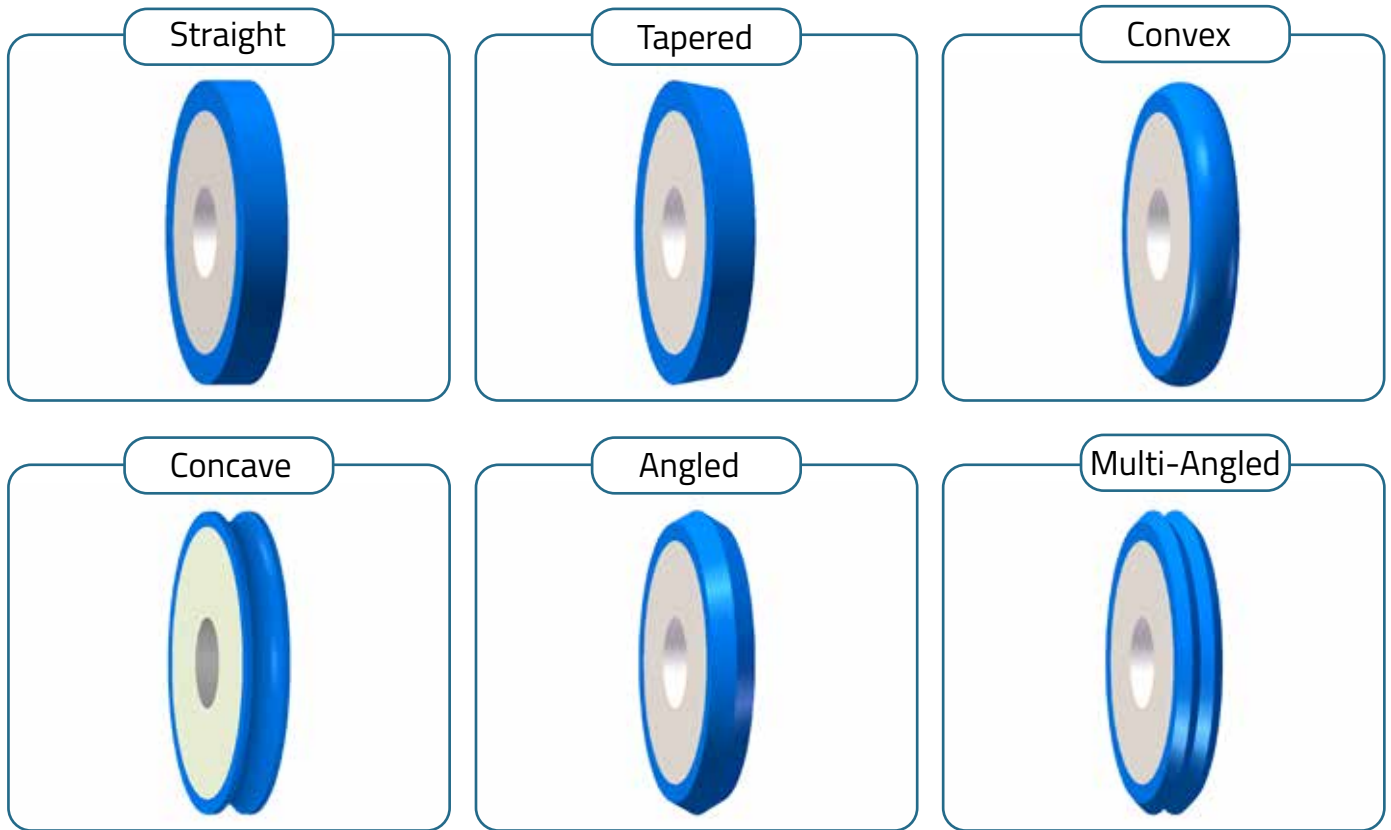
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D 	I 	N 
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Typical Wheel Forms Dressed by Stationary Diamond Tools

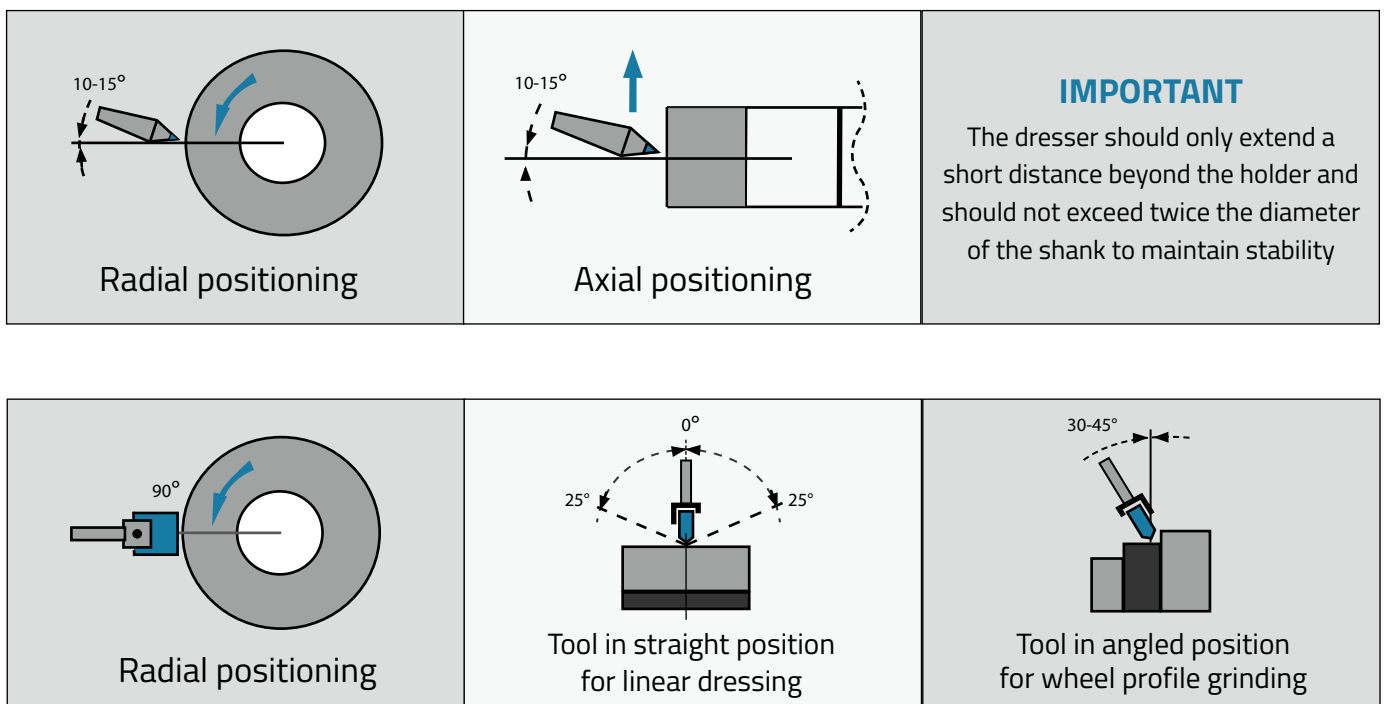
Find the applicable wheel form to select the right products.

 Straight	 Tapered	 Convex
 Concave	 Angled	 Multi-Angled

Recommended Diamond Dresser By Wheel Shape

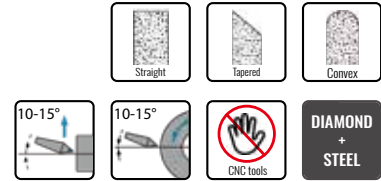
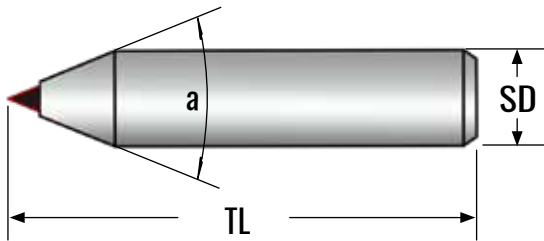


Positioning Of The Dressing Tool



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.

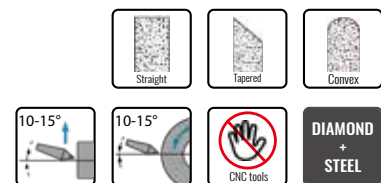
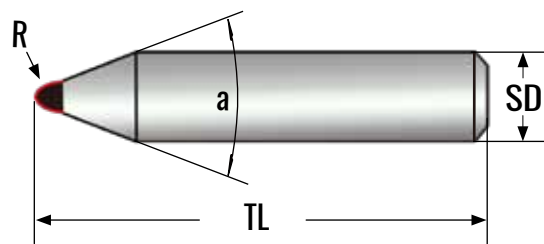


Order NO.	SD [mm]	TL [mm]	a Angle
DB-0001	3	25	60°
DB-0002	4	20	60°
DB-0003	5	40	60°
DB-0004	6	25	80°
DB-0005	8	80	90°
DB-0006	10	80	90°
DB-0007	11	30	90°
DB-0008	12	80	90°

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.

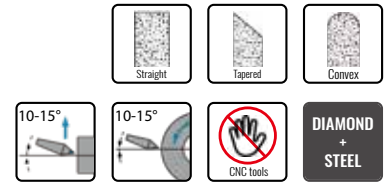
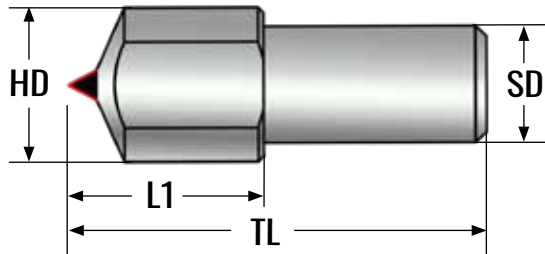


Order NO.	R [mm]	SD [mm]	TL [mm]	a Angle
DP-0001	0.02	6	25	60°
DP-0002	0.02	10	50	60°
DP-0003	0.02	11	100	60°
DP-0004	0.1	6	25	80°
DP-0005	0.02	10	50	90°
DP-0006	0.05	6	27	90°
DP-0007	0.2	8	35	90°

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

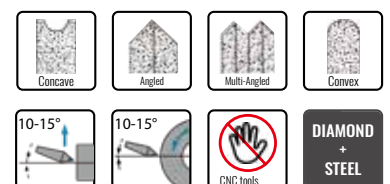
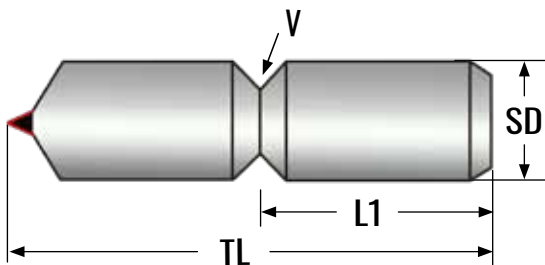
Single Point Tool

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



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

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

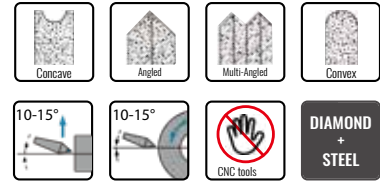
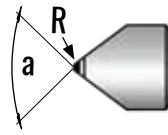
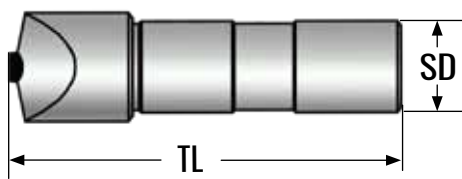


Order NO.	SD [mm]	L1 [mm]	TL [mm]	V
DA-0001	6	4	8	90°
DA-0002	10	7	16	90°
DA-0003	10	9	20	90°
DA-0004	11	16	35	90°
DA-0005	11	20	40	90°

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

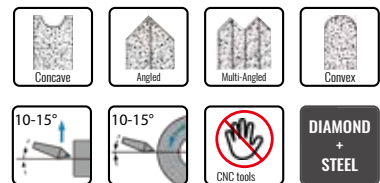
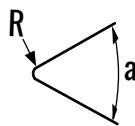
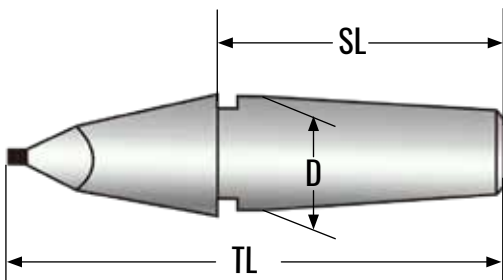
Chisel Diamond Dresser

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.	R [mm]	SD [mm]	TL [mm]	a Angle
DC-0001	0.05	9.52	45	40°
DC-0002	0.25			
DC-0003	0.50			
DC-0004	0.125			
DC-0005	0.25	9.52	45	60°
DC-0006	0.5			
DC-0007	0.75			
DC-0008	0.125			

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

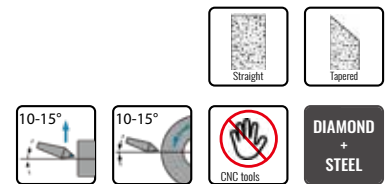
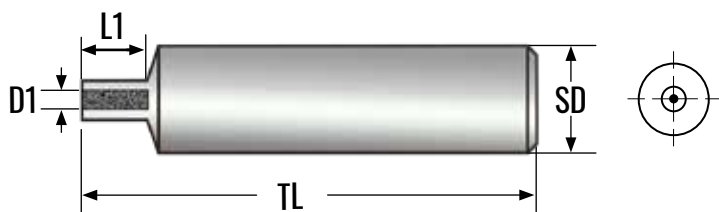


Order NO.	R [mm]	D [mm]	SL [mm]	TL [mm]	a Angle
DH-0001	0.2	12	24	42	45°
DH-0002	0.2	12	24	42	55°
DH-0003	0.4	12	30	44	70°
DH-0004	0.5	12	32	47	58°

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

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.

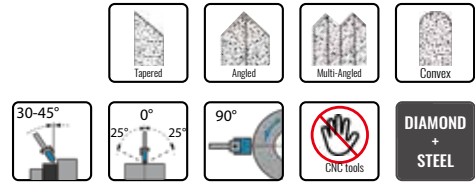
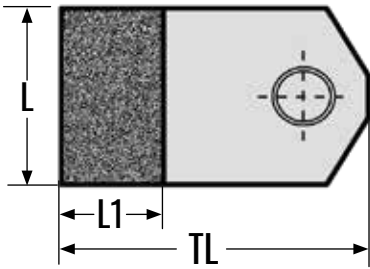


Order NO.	D1 [mm]	L1 [mm]	SD [mm]	TL [mm]
DV-0001	3	3	8	50
DV-0002	3	5	10	50
DV-0003	3	8	11	50
DV-0004	4	5	8	50
DV-0005	4	8	11	50
DV-0006	4	10	11	50
DV-0007	5	5	8	50
DV-0008	5	8	10	50
DV-0009	5	10	11	50
DV-0010	3	3	6	25
DV-0011	5	5	6	30

Mainly Application: Surface grinding.

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.	L [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.