

# 3M™ Diamond Pad Conditioner E187

## Introduction

Highly engineered pad conditioners deliver reliable performance for critical semiconductor CMP applications. Utilizes Sintered Abrasive Technology for superior diamond retention, with controlled diamond placement and protrusion.



## Features and Benefits

- Helps to reduce the number of maintenance shutdowns, increasing the potential for lower cost of ownership
- Optimized for extended pad and disk life
- Diamonds secured with both chemical and mechanical bonds for superior retention

## 3M Stock #:

	<b>60-0200-1241-9</b>	<b>60-0200-1242-7</b>	<b>60-0200-1243-5</b>	<b>60-0200-1244-3</b>
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## General Description

Product Type	Diamond Pad Conditioner	Diamond Pad Conditioner	Diamond Pad Conditioner	Diamond Pad Conditioner
Product ID	3M™ Diamond Pad Conditioner Ring E187	3M™ Diamond Pad Conditioner Ring E187	3M™ Diamond Pad Conditioner Ring E187R (Refurbished)	3M™ Diamond Pad Conditioner Ring E187R (Refurbished)
Manufacturer	3M Company	3M Company	3M Company	3M Company
Manufacturing Location	Cottage Grove, Minnesota, USA	Cottage Grove, Minnesota, USA	Cottage Grove, Minnesota, USA	Cottage Grove, Minnesota, USA

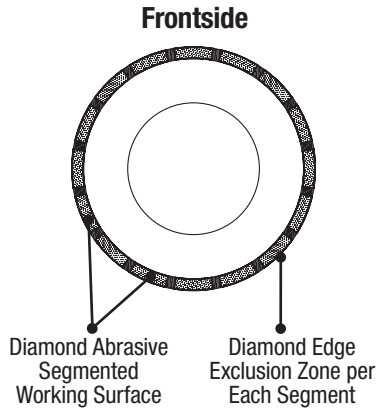
## Pad Conditioner Construction

Carrier (substrate material)	304 SS	304 SS	304 SS	304 SS
Carrier Format	Ring	Ring	Ring	Ring
Carrier Size (diameter, nominal size)	260 mm	360 mm	260 mm	360 mm
Abrasive Material	Nickel based alloy with patterned diamond	Nickel based alloy with patterned diamond	Nickel based alloy with patterned diamond	Nickel based alloy with patterned diamond
Abrasive Working Surface	Segmented	Segmented	Segmented	Segmented

## Design Parameters

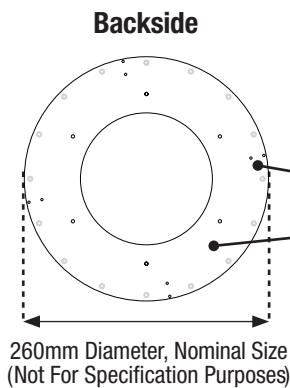
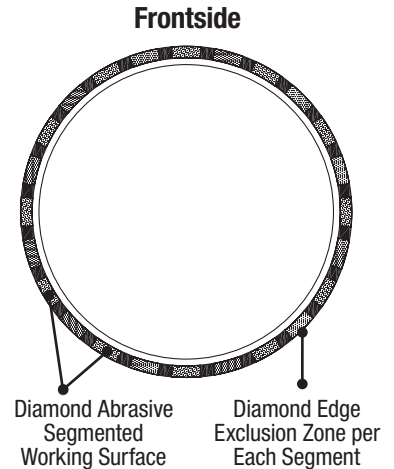
Diamond Size (nominal size)	181 µm	181 µm	181 µm	181 µm
Diamond Type	Type 4, semi-sharp	Type 4, semi-sharp	Type 4, semi-sharp	Type 4, semi-sharp
Diamond Pattern Type	Square array	Square array	Square array	Square array
Flatness	<100 µm	<100 µm	<100 µm	<100 µm
Aggressiveness Value (BL)	70-90	55-75	70-90	55-75



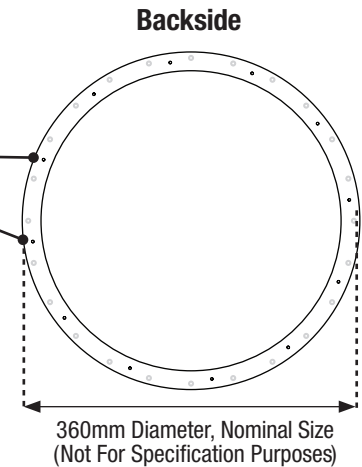


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304 Stainless Steel Carrier



**Regulatory:** For regulatory information about this product, contact your 3M representative.

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