



dark matter composites ltd

## DMP0133, 75mm / 3" Dual Action Orbital Sander Kit

A variable speed random orbital sander used for the blending of surfaces and fine surface finishing.

The small orbit and contact area, combined with film and mesh abrasives, provides dust free sanding operations with dust capture at source when combined with our portable dust extractors.

Ideal for dust free sanding of vertical surfaces and edges and is suitable for production and on-site sanding activities.



- Dynorbital® Mini Extreme (dual action) random orbital sander with vacuum
- 223W / 0.3hp air motor with motor seals and bearings arranged to protect the tool from sanding residue to extend life and minimise servicing
- Variable speed up to 12,000 rpm
- Palm operated variable speed
- Speed restrictor for optimum control
- 2.4mm orbit for fine material removal and finishing of surfaces
- OR DMP0133A for 4.8mm orbit for medium material removal and finishing of surfaces
- 75mm / 3" diameter hook face backing pad suitable for mesh abrasives
- Backing pad weight-mated to the tool to ensure low vibration and smooth finishes
- Vacuum rotary joint providing freedom of movement
- Swivel airline joint and male hi-flow airline connector
- Selection of film and mesh abrasive discs suited to the orbit and for use with composite materials

### Advise for Dust Free Sanding Operations

This advise applies specifically to the use of this air tool kit with our portable extractor DMP0120.

#### Edge Sanding

- This requires high vacuum volume and low vacuum pressure
- Set hose diameter to 50mm and the variable vacuum control to maximum
- Use 'Dynabrade' film backed discs for edge sanding
- Use the tool at approx. half speed and use the edge of the disc so that the direction of travel runs along the edge of the laminate, rather than across the laminate, to improve final finish



#### Surface Sanding

- Use 'Mirka' type mesh abrasives for surface sanding
- Depending on the disc being used, and dust particle size generated, this requires low to medium vacuum volume with high vacuum pressure as the face of the disc against a surface restricts airflow
- Depending on the speed of the tool, set hose diameter to either 27, 36 or 50mm and adjust the variable vacuum control to achieve the best capture
- The tool operates best when used continuously against a surface as the dust particles are drawn from the surface, through the abrasive and into the vacuum system

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Registered in England & Wales No: 5395870



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## DMP0133, 75mm / 3" Dual Action Orbital Sander Kit

### Dust Free Edge Sanding

- This requires high vacuum volume and low vacuum pressure
- Set hose diameter to 50mm and the variable vacuum control to maximum
- Use 'Dynabrade' film backed discs for edge sanding
- Use the tool at approx. half speed and use the edge of the disc so that the direction of travel runs along the edge of the laminate, rather than across the laminate, to improve final finish

### 'Dynabrade' Film Discs (suited to edge sanding)

'Dynabrade' coated abrasive films provides high tear resistance and strength making them ideal for edge sanding and finishing composite laminates.

The range of grit sizes allow for intermediate and fine finish on composite laminates, gelcoats, fillers and other clogging materials.

The film sanding discs are supplied in 75mm/3" diameters with 6 holes to maximise dust capture and are ideal for use on random orbital sanders at 12,000rpm.

Samples of the following abrasive discs (marked \*) are included within this kit and are suitable for use with a range of composite materials.

### Technical Specifications

<i>Description</i>	DG922 Micro-finishing Film Discs Ø75mm, 6 Hole
<i>Grain</i>	Aluminium oxide with anti-clog treatment
<i>Color</i>	Light Blue
<i>Grit range</i>	P80 to P1500
<i>Backing</i>	Film with Velcro Hook Face Attachment



Orbit	Grit Size	DMC Order Code (pk 100)	Dynabrade Order Code (pk 100)
5mm / 3/16"  2.5mm / 3/32"	P80	DMP0133-SD01	73820
	P120*	DMP0133-SD02	73822
	P180	DMP0133-SD03	73824
	P240*	DMP0133-SD04	73826
	P320	DMP0133-SD05	73114
	P400*	DMP0133-SD06	73115
	P600	DMP0133-SD07	73117
	P800*	DMP0133-SD08	73827
	P1200	DMP0133-SD09	73829
	P1500	DMP0133-SD10	73830



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### Dust Free Surface Sanding

- Use 'Mirka' type mesh abrasives for surface sanding
- Depending on the disc being used, and dust particle size generated, this requires low to medium vacuum volume with high vacuum pressure as the face of the disc against a surface restricts airflow.
- Depending on the speed of the tool, set hose diameter to either 21, 27 or 36mm and adjust the variable vacuum control to achieve the best capture
- The tool operates best when used continuously against a surface as the dust particles are drawn from the surface, through the abrasive and into the vacuum system

### 'Mirka' Mesh Abrasives (for surface sanding only)

'Abranet®' and 'Abranet® Ace' abrasives combine high performance and a longer lifespan than traditional abrasives, making it a cost effective solution. Designed for dry sanding by machine or by hand, its true dust-free sanding characteristics result in a cleaner work environment, as well as a better surface finish. The mesh discs are suitable for surface sanding only as the disc material breaks away when edge sanding.

Samples of the following abrasive discs (marked \*) are included in the appropriate kit and are suitable for use with a range of composite materials.

### Technical Specifications

<i>Bonding</i>	Resin over resin	Resin over resin
<i>Grain</i>	Aluminium oxide	Ceramic/Ceramic coated
<i>Coating</i>	Closed	Closed
<i>Color</i>	Brownish	Light maroon
<i>Grit range</i>	P80-P1000	P80-P1000
<i>Backing</i>	PA net / PES net	PA net / PES net



Orbit to Suit Grit	Grit Size	Mirka Code for Abranet® Ø77mm Grip Discs (pk 50)	Mirka Code for Abranet® Ace Ø 77 mm Grip Discs (pk 50)	
5mm / 3/16"	P80	5420305080	AC20305080	
	P120	5420305012 *	AC20305012	
	P180	5420305018	AC20305018	
	P240	5420305025 *	AC20305025	
	P320	5420305032	AC20305032	
	P360	5420305037	n/a	
	2.5mm / 3/32"	P400	5420305041 *	AC20305041
		P500	5420305051	AC20305051
		P600	5420305061	AC20305061
		P800	5420305081 *	AC20305081
P1000		5420305092	AC20305092	

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### Spare Parts List

Spare Part Image	Spare Part No. & Description
	<p><b>DMP0133-SP01</b> <b>Random orbital back up pad, 75mm/3", hook faced, 6 hole</b> For use with mesh and film abrasives to ensure effective dust capture at the abrasive face.</p>

### Notes for Spares Orders

- Spare parts shall be usually available ex-stock. On occasion, stock levels may run low and lead times may be 1-3 working weeks.
- Orders shall be based on Dark Matter Composites Ltd standard Terms and Conditions of Sale.
- Prices stated are nett, ex-works, unpacked and in pounds sterling
- If required, packing and delivery charges shall be advised on order placement.
- Goods supplied to the UK shall be subject to UK VAT at the current rate.
- Goods exported outside the UK may be subject to local import duties which shall be borne by the Customer.