

**Makita**

# 18V Brushless 125mm (5") Angle Grinder

DGA512

DGA518



**PREMIUM  
BRUSHLESS**

## WIRELESS, ON DEMAND, DUST EXTRACTION

Makita's Auto-start Wireless System (AWS) has modernised on-demand dust extraction to meet the needs of cordless power tool users. AWS allows you to work with maximum efficiency, without the hazard of dust & leads. Featuring our legendary cordless technology, the AWS range has the power, speed & runtime to keep you ahead of the game.



**Makita**<sup>®</sup>

**PREMIUM**  
**BRUSHLESS**  
Premium power & runtime

Our Premium Brushless range is for those who lead the pack seeking industrial quality without compromise. LXT® Premium Brushless tools put you ahead of the game with market leading innovation, maximum power and the ultimate in endurance that 18V has to offer.



# Product Objectives

- Designed to suit the needs of fabricators, engineers, welders and stone masons.
- Develop an 18V angle grinder with a variable speed function which allows users to select the optimum speed for the accessory and the application whilst leading the way in improved dust extraction technology



# Product Overview

## DGA512 – 18V Brushless AWS 125mm (5") Slide Switch Angle Grinder

Anti restart

Automatic torque drive

Soft start

Anti kickback



**AWS**  
Auto - start Wireless System

Variable speed

**XPT**  
EXTREME PROTECTION TECHNOLOGY

**BL**  
MOTOR

# Product Specification Sheet

## DGA512 – 18V Brushless AWS 125mm (5") Slide Switch Angle Grinder



Wheel diameter	125mm (5")
No load speed	3,000 - 8,500rpm
Overall length	382mm
Skin weight	2.5kg
Weight (with battery)	3.1kg
Voltage	18V

- **Anti-restart** – tool will not start if switch is engaged when a battery is installed. Switch must first return to the off position
- **Automatic torque drive** – automatically adjusts speed and torque during operation for optimum performance
- **Soft start** – slowly increases speed to full rpm for safe and smooth operation
- **Anti-kickback** – turns the motor off if the rotation of the wheel is suddenly forced to stop preventing the tool from kicking backwards
- **AWS** – Auto-Start Wireless System, allows the tool and compatible vacuum to run automatically while the switch trigger of the angle grinder is being pulled
- **Variable speed** – dial allows the rpm of the grinder to be controlled at a range between 3,000 and 8,500rpm
- **XPT eXtreme Protection Technology** – for use in outdoor applications or harsh environments, protection from dust and moisture is enhanced
- **BL Brushless Motor** – efficient energy production enabling lower heat production and increased work on a single charge

# Product Overview

## DGA518 – 18V Brushless AWS 125mm (5") Paddle Switch Angle Grinder

Anti restart

Automatic torque drive

Soft start

Anti kickback



Auto - start Wireless System

Variable speed



EXTREME PROTECTION TECHNOLOGY



# Product Specification Sheet

## DGA518 – 18V Brushless AWS 125mm (5") Paddle Switch Angle Grinder



Wheel diameter	125mm (5")
No load speed	3,000 - 8,500rpm
Overall length	382mm
Skin weight	2.5kg
Weight (with battery)	3.1kg
Voltage	18V

- **Anti-restart** – tool will not start if switch is engaged when a battery is installed. Switch must first return to the off position
- **Automatic torque drive** – automatically adjusts speed and torque during operation for optimum performance
- **Soft start** – slowly increases speed to full rpm for safe and smooth operation
- **Anti-kickback** – turns the motor off if the rotation of the wheel is suddenly forced to stop preventing the tool from kicking backwards
- **AWS** – Auto-Start Wireless System, allows the tool and compatible vacuum to run automatically while the switch trigger of the angle grinder is being pulled
- **Variable speed** – dial allows the rpm of the grinder to be controlled at a range between 3,000 and 8,500rpm
- **XPT eXtreme Protection Technology** – for use in outdoor applications or harsh environments, protection from dust and moisture is enhanced
- **BL Brushless Motor** – efficient energy production enabling lower heat production and increased work on a single charge
- **Electric brake** – quickly and smoothly stops the grinding disc for safe and efficient operation



# Advantages

## Power



Automatic torque drive increases torque to power through tough cuts

## Innovation



AWS delivers on demand dust extraction

## Control



Variable speed dial allows optimum control for precise material removal

## Safety



Soft start, Anti-kickback and Anti-restart



# Advantages

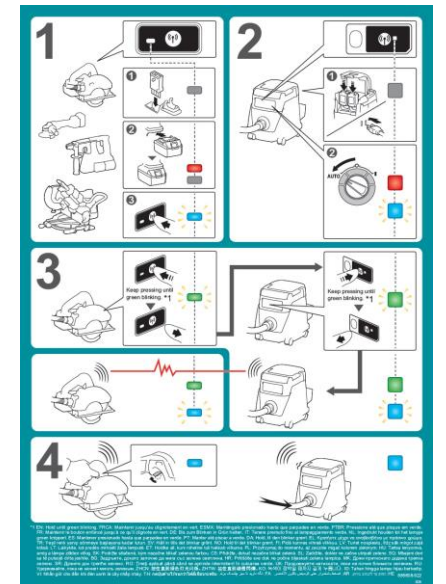
The DGA512 / DGA518 can pair to our 18Vx2 Brushless AWS Dust Extraction Vacuum (DVC864L) thanks to the new Auto-Start Wireless System.

This feature enables automatic start up of the vacuum when the trigger is pulled on the tool for on demand dust extraction.

The DVC864L will also run for several seconds after the trigger has been released to pull any remaining material completely through the hose.






## How to pair your tools

1. Turn the DVC864L power dial to "AUTO."
2. Press and hold the  button on the DGA512/518 for 3 seconds until the light flashes **Green**.
3. Press and hold the  button on the DVC864L for 3 seconds until the light flashes **Green**.
4. Lights will turn to flashing **Blue** when the two units are paired.











[Click Here for instructional video – Pairing Bluetooth Tools](#)



# AWS Range

DVC864LZ	DSP601ZU	DGA512/DGA518	DLS111	DHR400
				
Type: Dry Only	Blade Diameter: 165mm	Blade Diameter: 125mm	Blade Diameter: 255mm	Chuck Type: SDS Max
Max Sealed Suction: 9.8 kPa	No Load Speed: 2,500 – 6,300rpm	No Load Speed: 3,000 – 8,500rpm	Max Cutting Capacity: 68 x 310mm 91 x 279mm	Impact Rating: 8j
Max Airflow: 2.1 m <sup>3</sup> /min	Max Cutting Capacity: 56mm	Variable Speed: Dial	Mitre Angle: 60° Left & Right	Max Capacity: 40mm
Suction Power: 90W	Bevel Adjustment: -1° - 48°	Electric Brake: Yes	Bevel Angle: 48° Left & Right	Drilling Modes: 2 Modes
Tank Capacity: 8L	Automatic Torque Drive: Yes	Automatic Torque Drive: Yes	Automatic Torque Drive: Yes	Vibration Rating: 5 m/s <sup>2</sup>
Weight: 8.4kg	Weight: 4.5kg	Weight: 3.1kg	Weight: 27.3 kg	Weight: 8.1 kg

# 125mm (5") Grinder Features

	DGA504	DGA505	DGA506	DGA508	DGA511	DGA512	DGA517	DGA518
								
Switch type	Slide	Paddle	Slide	Paddle	Slide	Slide	Paddle	Paddle
Anti-restart	✓	✓	✓	✓	✓	✓	✓	✓
Soft start	✓	✓	✓	✓	✓	✓	✓	✓
Automatic torque drive	✓	✓	✓	✓	✓	✓	✓	✓
Anti-kickback	✓	✓	✓	✓	✓	✓	✓	✓
Electric brake	✗	✗	✓	✓	✗	✗	✓	✓
Variable speed	✗	✗	✗	✗	✓	✓	✓	✓
AWS	✗	✗	✗	✗	✗	✓	✗	✓

# Our Range

	DGA452	DGA504	DGA505	DGA506	DGA508	DGA511	DGA512	DGA517	DGA518	DGA700	DGA900
											
Wheel diameter	115mm (4-1/2")	125mm (5")	125mm (5")	125mm (5")	125mm (5")	125mm (5")	125mm (5")	125mm (5")	125mm (5")	180mm (7")	230mm (9")
No load speed	10,000rpm	8,500rpm	8,500rpm	8,500rpm	8,500rpm	3,000 - 8,500rpm	3,000 - 8,500rpm	3,000 - 8,500rpm	3,000 - 8,500rpm	7,800rpm	6,000rpm
Overall length	317mm	362mm	362mm	362mm	362mm	382mm	382mm	382mm	382mm	499mm	499mm
Skin weight	1.3kg	2.0kg	2.0kg	2.0kg	2.0kg	2.5kg	2.5kg	2.5kg	2.5kg	4.6kg	4.8kg
Weight (with battery)	1.9kg	2.6kg	2.6kg	2.6kg	2.6kg	3.1kg	3.1kg	3.1kg	3.1kg	6.0kg	6.2kg
Voltage	18V	18V	18V	18V	18V	18V	18V	18V	18V	36V (18Vx2)	36V (18Vx2)

# Accessories

## Standard Accessories

	A-80656	125mm Inox Grinding wheel
	153489-2	Side grip
	782423-1	Lock nut wrench
	224554-1	Lock nut
	224314-5	Flange
	135108-2	Tool-less wheel guard
	198901-5	Wireless Unit

## Optional accessories

	B-35449-10 D-20432-10 B-38489-40 D-20323-5	<b>Metal - Cutting and Grinding</b> 125 x 1.6 x 22.23 (10PK) 125 x 2.5 x 22.23 (10PK) 125 x 3.2 x 22.23 (40PK) 125 x 6 x 22.23 (5PK)
	B-46981-10 B-18150-10 D-20535-12 B-27121-5	<b>Inox - Cutting and Grinding</b> 125 x 0.8 x 22.23 (10PK) 125 x 1 x 22.23 (10PK) 125 x 1.2 x 22.23 (12PK) 125 x 6 x 22.23 (5PK)

## Optional accessories

	B-22171-20 B-22187-20 B-22193-20 B-22202-20	<b>Flexible Grinding Wheels - Metal</b> 125 x 3 x 22.23 AC36 (20PK) 125 x 3 x 22.23 AC46 (20PK) 125 x 3 x 22.23 AC60 (20PK) 125 x 3 x 22.23 AC80 (20PK)
	B-22414-20 B-22420-20 B-22436-20 B-22442-20	<b>Flexible Grinding Wheels - Inox</b> 125 x 3 x 22.23 WA36 (20PK) 125 x 3 x 3 x 22.23 WA46 (20PK) 125 x 3 x 22.23 WA60 (20PK) 125 x 3 x 22.23 WA80 (20PK)
	D-20482-10 D-20373-5	<b>Masonry - Cutting and Grinding</b> 125 x 3 x 22.23 (10PK) 125 x 6 x 22.23 (5PK)
	B-46333	<b>Ultra Thin Diamond Blade - Porcelain</b> 125 x 1.4 x 22.23
	122688-7	<b>125mm Wheel guard for cutting discs</b>
	196845-3	<b>125mm Dust collecting wheel guard</b>