

# LGK 300 / 400 / 500

CNC Air Plasma Cutting Machines

**Danox**  
WELDING PTE LTD

## Product Overview

The Danox CNC Air Plasma Cutting Machine, available in LGK-300, LGK-400, and LGK-500 model, are designed to deliver precise, high-speed metal cutting with exceptional stability and efficiency.

Built using IGBT soft switch module technology, these machines support a wide range of cutting applications and are compatible with CNC tables, gantry systems, and robotic welding arms.

With a stable output, efficient energy use, and reliable protection features, this series is ideal for long-term use across various industrial environments.



## Features

- **IGBT Soft Switch Technology** - Stable & reliable performance.
- **Non-Contact Arc Start** - High frequency arc initiation improves cutting precision.
- **Wide Voltage Adaptability** - Stable current under grid fluctuations.
- **Overheat, Water, & Phase Loss Protection** - Prevents torch damage.
- **Precision Current Control** - Stepless regulation for varying material thickness.
- **Good Cut Quality** - Clean kerf, smooth edge finish, & minimal deformation.
- **User Friendly Interface** - Modern, compact design with easy operation.
- **Multi Process Compatible** - Works with CNC tablets, robots, & manual torching.
- **Triple Protection Circuit Design** - Reliable even in hard environments.

### Singapore HQ

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## Advantages

<b>Efficient Long-Term Cutting</b>	High duty cycle operation (60%)
<b>High Cutting Thickness Capacity</b>	<b>Machine:</b> up to 45mm <b>Hand:</b> up to 90mm
<b>Dual Cooling Options</b>	Compatible with air or water-cooled torches
<b>Minimal Torch Wear</b>	Soft start arc ignition protects components
<b>Portable &amp; Versatile</b>	Ideal for field work or fixed factory use
<b>High Efficiency</b>	90% energy efficiency across all models

## Product Parameters

PARAMETER	LGK-300	LGK-400	LGK-500
Input Power Source	Three-phase 380V	Three-phase 380V	Three-phase 380V
Rated Input Capacity	66.7KVA	94.4KVA	125KVA
Inverting Frequency	20KHz	20KHz	20KHz
No-Load Voltage	365V	365V	365V
Duty Cycle	60%	60%	60%
Voltage Range	25-300A	25-400A	25-500A
Arc Method	High frequency arc start	High frequency arc start	High frequency arc start
Power Cooling Method	Forced air cooling	Forced air cooling	Forced air cooling
Cooling Mode of Adjustable Gun	Air or Water cooled	Air or Water cooled	Air or Water cooled
Machine Cutting Thickness	≤ 35mm	≤ 40mm	≤ 45mm
Hand Cutting Thickness	≤ 70mm	≤ 80mm	≤ 90mm
Efficiency	90%	90%	90%
Insulation Class	Class F	Class F	Class F
Dimensions (mm)	680 x 355 x 960	750 x 445 x 1040	750 x 445 x 1040
Weight	93KG	120KG	126KG

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