



**RED LINE**  
INDUSTRIES LTD.  
An ISO 9001:2008 Company



***NC301D***

100 kV powder  
coating machine

SETTING BENCHMARK STANDARDS ...

... FOR OTHERS TO FOLLOW



# Everything you wanted in a powder coating machine ...

... and more

## RED LINE NC301D

The Red Line NC301D is the latest generation 100 kV powder coating machine. This machine has been designed and built to meet the powder coater's needs on the shop-floor.



- **A dual powered machine.** SMPS as well as transformer based. SMPS based supply guarantees highly consistent performance in spite of normal variations in input voltage. Transformer based works well under difficult power conditions. The changeover from one power supply to the other is simply by a switch.

- **A dual gun.** The 301 is a dual gun with inbuilt (not an attachment or an add-on) cup-gun configuration. Should take less than 2 minutes to switch over from production to cup. The cup-gun works on our *ForceFeed Technology* where powder is pushed out from

the cup in a smooth and even flow. This does not work on gravity-feed where the user has to keep shaking the gun and struggle with interrupted powder flow.

- The 301 powder gun is well-balanced and fatigue-free
- Made from components sourced from some of the finest companies worldwide
- A set of **compressed air filters** keeps water, oil or dust out – saves the machine and the coating finish from damage. A **slider valve** disconnects the compressed air when not required.

- **A high performance powder feed pump** for smooth powder flow all the way up to 500 gms/min

- All new electronics for improved control over the charging voltage
- **Cable-to-cable connectors** in the wiring system in the panel – simplifies maintenance of the machine
- Status of various aspects of the machine clearly indicated on the panel facia.
- A digital readout of the charging voltage



## TECHNICAL SPECIFICATIONS:

### INPUT:

#### Power:

220-240V AC 50Hz  
(other power supplies available on request)  
(SMPS supply system operates in 110-260V AC)  
Power consumption: 50 VA

#### Compressed air:

Maximum consumption: 15NM<sup>3</sup>/hr @ 5 kg/cm<sup>2</sup> (70- psi)  
Maximum pressure permitted: 7 kg/cm<sup>2</sup> (100 psi)  
Normal working pressure: 2-4 kg/cm<sup>2</sup> (30-55 psi)  
Maximum moisture content permitted: 1.3 gm/M<sup>3</sup>\*  
Maximum oil content permitted: 0.1ppm\*  
(\*recommended for all powder coating installations)

### POWDER HOPPER:

20-kg (44-lbs) capacity square with rounded corners  
(other sizes available on order)

### OUTPUT:

Charging voltage: 25-100kV (-ve) infinitely controllable  
(positive charging guns available on special order)  
Output current: Maximum 140uA  
Power flow: 0-500gms/min (17 oz/min) infinitely controllable

### MANUAL POWDER GUN:

Weight: approx. 650 gms (22 oz) without cable and powder hose  
Input voltage: 0 – 5V HF controlled  
Powder flow pattern generators: Round 15, 20 & 25mm diameter and star-jet nozzle



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