

# Metering Station Add-on - Shortcut To Achieve CPK

## Automotive Lamp Requirement

In the auto lamp industry, most of the lamps need to be inspected by the original equipment company or a third-party authority, such as the United Nations Economic Commission for Europe and the United States Certified Automotive Parts Association (CAPA). After authorization, the auto lamps are allowed to be sold in the original equipment service and after market sales system. In order to obtain sales opportunities ahead of competitors, the lamp factories have strict requirements on quality, in order to avoid being unqualified and missing the sales opportunity. Taking CAPA as an example, the tolerance of the lamp's quantifiable key product characteristics, such as size, type of adhesive and adhesion, should be controlled within  $\pm 3\%$ , and the process capability index CPK value must be greater than or equal to 1.33.



*Dispensing on the small auto lamp*

## Dispensing Problem

With the strict quality inspection conditions, if the lamp factories are only equipped with traditional pneumatic dispensing machines, such as 20L pail or 200L drum piston machines, the dispensing volume is often unstable when switching stroke direction. The machines also have the problems with the inconsistency volume that often cause the product deficiency, and even fail to pass the inspection requirement.

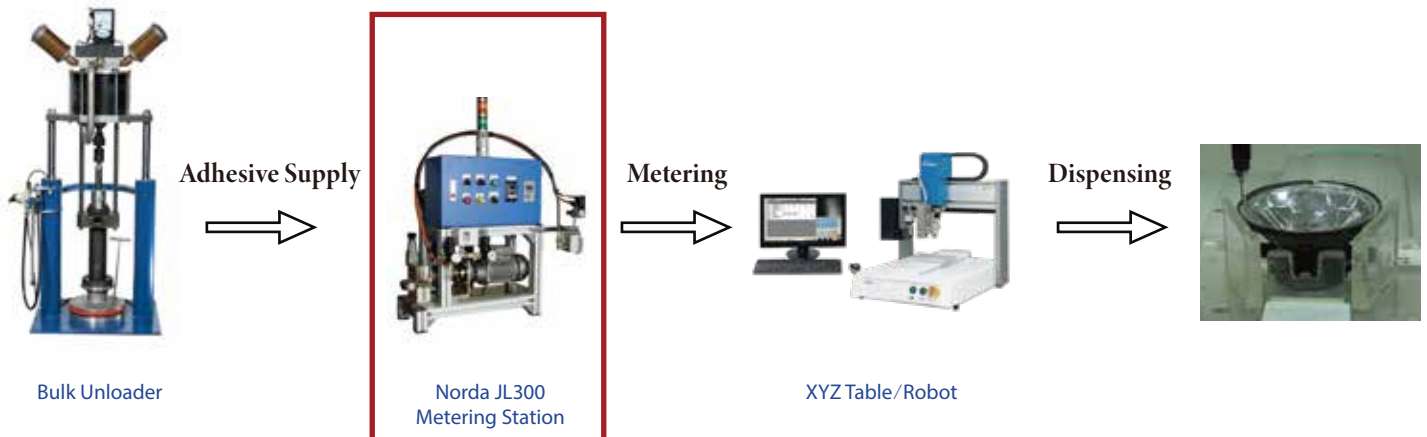


## Norda Solution

In order to resolve above mentioned problems of the conventional pneumatic dispensing machine, Norda launched JL300 Gear Pump Metering Station. JL300 Metering Station can be installed with the original machines, and is able to improve the dispensing tolerance from  $\pm 10\%$  to  $\pm 3\%$ . Adhesives, such as silicone, can be metered by spur gear pump driven by adjustable AC variable frequency motor to ensure the consistency and stability of the adhesive output. For example, the CPK value of the adhesive amount can reach 1.38 for dispensing tolerance of  $\pm 3\%$ .

# Metering Station Add-on - Norda JL300

## Norda Solution



### Comparison with the conventional machine

■ Precision: The tolerance of the original pneumatic equipment is about  $\pm 10\%$ . After installing Norda JL300 Gear Pump Metering Station, the tolerance can be controlled within  $\pm 3\%$ .

■ Improve yield and reduce cost: Taking fog light sealing as an example, the add-on weight of silicone is about 5g to 20g. JL300 is able to control the tolerance within  $\pm 3\%$ , and it can save 7% of the silicone consumption than a pneumatic equipment, of which the tolerance range is over  $\pm 10\%$ . JL300 can also make the CPK value of adhesive amount reach 1.38, that means the defect rate is within 35ppm.

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