

# APPLICATION SHEET

INDUSTRIAL SECTOR:

Food, agricultural and oenology industry

Chemical and pharmaceuticals industry

APPLICATION: CLEAN DUTY



## INDEX

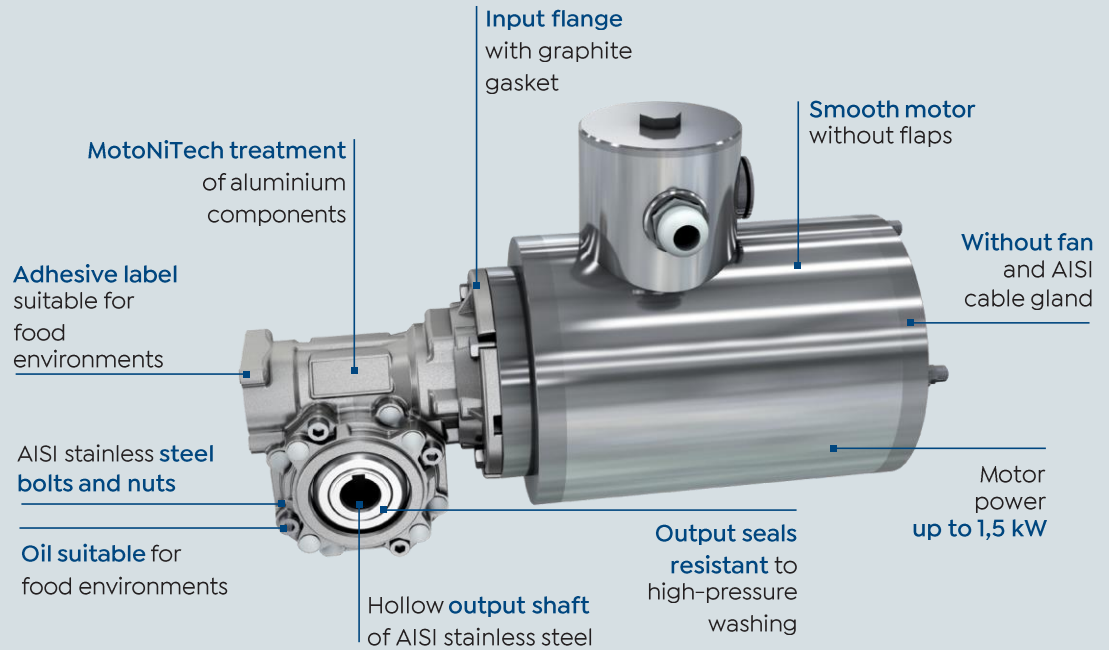
1. APPLICATION

DESCRIPTION

2. SOLUTIONS

3. SURFACE

TREATMENT



## 1. APPLICATION DESCRIPTION

**CLEAN DUTY** is a solution developed by Motovario for the food industry and for all fields of application that require very high standards of hygiene. Clean Duty is made of AISI stainless steel and has been properly treated to prevent water and dirt from stagnating and depositing.

**Clean Duty** is a gearmotor ideally suited to the primary processing stage, for example on the packaging lines for fruit and other fresh foods. Its compact size and high-quality surface treatments ensure high resistance, especially in corrosive environments.

## TECHNICAL CHARACTERISTICS

Compact size, adaptability and corrosion-proof materials are the technical characteristics of the Clean Duty gearmotor.

SIZE	M2 min	M2 max	RATIO MIN	RATIO MAX	
030	13	22	5	80	
040	29	48		7,5	100
050	55	88			
063	118	160			
075	180	230			
090	270	432			

Motor power up to 1,5 KW

# APPLICATION SHEET

INDUSTRIAL SECTOR:

Food, agricultural and oenology industry

Chemical and pharmaceuticals industry

APPLICATION: CLEAN DUTY



## 2.SOLUTIONS

The food industry requires high standards of hygiene in all phases of work. The processes of cutting, slicing, dosing, packaging and temperature control (hot or cold) can be supported by the Clean Duty gearmotor made by Motovario, since the aluminium surfaces are chemically treated to ensure high resistance to washing with products with a pH ranging from 2 to 12, as well as with high pressure water. Motors have smooth surfaces with IP66 protection grade. Clean Duty adapts to various configurations and arrangement options.

## 3.SURFACE TREATMENT

**How is Clean Duty treated?**

The surface treatment of the Clean Duty gearmotor makes it ideal for the food industry.

### STEEL-IT TREATMENT

STEEL-IT coating consists of AISI 316L stainless steel louvres of different grain sizes dispersed in epoxy resin.

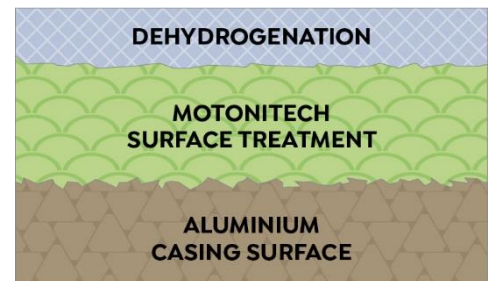
It protects against:

- corrosion under harsh environmental conditions
- sea and salty water

### MotoNiTech TREATMENT

Thanks to the high chemical resistance of the coating and the complete coverage of the surface, this treatment protects against:

- the acids of food products
- washing with acids and alkalis with PH from 2 to 12
- high-pressure washing
- aggressive chemical solutions



TEST CARRIED OUT AND DETERGENTS SUPPLIED BY **ECOLAB**

Immersion corrosion tests have been carried out using the most representative detergents and sanitisers in the industrial cleaning market.



**MAK**  
AANDRIJVINGEN  
[www.mak.nl](http://www.mak.nl)  
P.O. box 462  
8200 AL Lelystad  
The Netherlands  
T +31 (0)320 - 266966