

# Clean Vacuum Lifting Solutions™

for Cleanroom Process Applications



**Introducing the unique range of vacuum lifting solutions designed for use in the food and pharmaceutical sectors. The choice of systems are tailored to meet the requirements of clean process areas where risk of contamination is an issue during a manufacturing process. The PalVacuum Clean product line includes fully stainless steel S-Line and Uni-LITE for use in areas such as food and dairy processing to avoid the risk of contamination to the product. The systems uses FDA compliant suction seals and can be provided with a wipe down lift tube cover. These systems are suitable for handling packaged food products or food blocks such as frozen meat or blocks of cheese.**

Where a higher level of hygiene is required such as in the Pharmaceutical and other healthcare related industries, the PalPharmaVac GMP Vacuum lifter range uses FDA approved materials, hand demountable parts for easy cleaning and maintenance and a special filtration systems with minihelic gauge to prevent dust particle contamination (which may also be toxic) within the lift tube and/or jib as well as preventing microbial growth within the assembly from carrier particles. Systems are supplied with a wipe down lift tube cover.

**Options for stainless steel gantry crane systems are available where full GMP is required.**



## Solutions include:-

### Food Grade Hybrid S-LINE Vacuum Lifter

Fully stainless steel design with none particle shedding seals with lift tube cover for use in food production. The system can be supplied with stainless steel end effectors to lift sacks, boxes and drums. This is a cost effective and generally acceptable construction for food/dairy industries where the elevated surface finish and polishing/welding requirements as that of Pharmaceutical or biotech environments are not as critical but maintains a reduced cross contamination risk. The system maintains the S-LINE ranges fast end effector change over process.



### PalPharmaVac Fully GMP Vacuum Lifter

The PalPharmaVac fully GMP stainless steel Vacuum tube lifter has been uniquely designed to meet the requirements of the Pharmaceutical, BioTech, Cosmetic and Nutraceutical industries (Oral solid dose, parenteral, topical clean production environments).



It can lift and tip drums, and can handle sacks/bags, boxes and cartons

up to 100kg. It has a hand demountable assembly for ease of cleaning and low maintenance. It incorporates a wipe down lift tube cover and includes a special filtration system which means no downstream contamination of products. Each system is supplied with a safe change filter change for easy changeover of suction feet. Additionally, the stainless steel surface finish & welding is of a standard suitable for these industry including minimising particle 'ledges' as well as removing dirt traps where practical and possible. This is also the case for the PalPharmaLite Inline Vacuum Lifter.

### PalPharmaLite Inline Vacuum Lifter

The PalPharma LITE inline is a fully GMP lightweight vacuum lifter suitable for lifting and moving sacks, bags, boxes, cartons, drums and multi products. It has an inbuilt filtration system and a stainless steel design. It has non particle shedding design throughout and a range of end effectors that can easily be swapped over using an industry recognised hygienic triclamp connection system. The system is operated by one hand and it is ideal for fast repetitive lifting of product weighing up to 30kg



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