

Palamatic Vacuum Lifters for Hygienic Applications

PalPharma is an established force in the pharmaceutical, BioPharma, healthcare, medical, fine chemicals, cosmetics and nuclear industries. We design and manufacture handling equipment to solve materials handling problems for companies all over the world.

As leaders in material handling solutions, we here at Palamatic take immense pride in our series of professional quality Hygienic Vacuum Lifters which we design, manufacture, and supply to over 50 countries worldwide. Having worked with a plethora of industries and sectors internationally, Palamatic is your trusted partner for hygienic lifting solutions

Why Trust Palamatic For Quality Material Handling Equipment?

Rely on Palamatic for top-tier material handling equipment and an unwavering commitment to quality and innovation. With a track record of delivering exceptional solutions, we stand out as a trusted provider in the industry.



Est. in 1985

ver 35 Years in Business



10,000+





50+ Countries

Operating Worldwide

A Tried and Tested Hygienic Health and Safety Solution

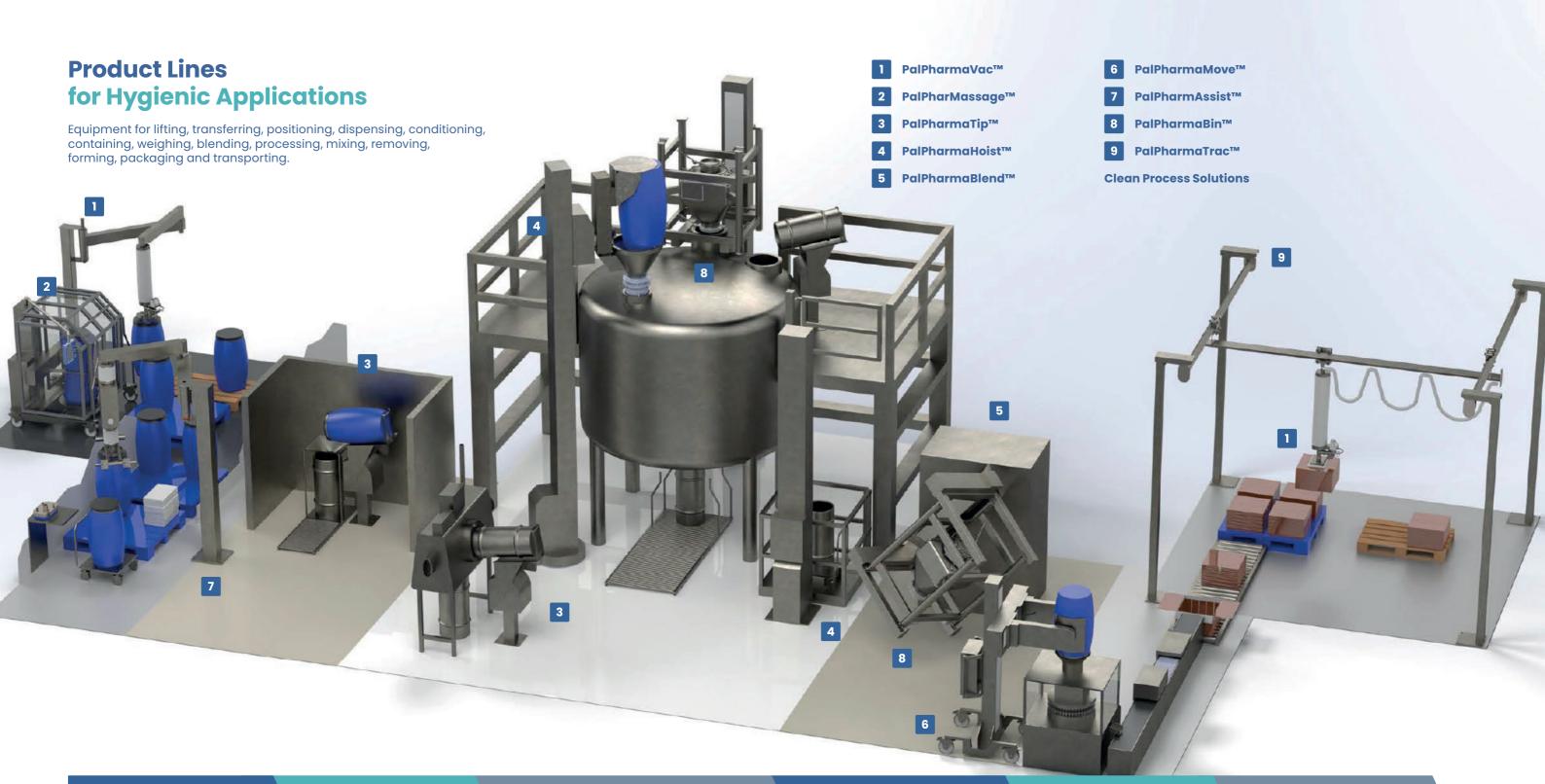
With more than 3 decades of expertise and experience in developing bespoke material handling solutions and over 10,000 completed projects, we recognise the importance of correct, efficient, and compliant material handling processes, particularly in sensitive or volatile environments. Our Hygienic Vacuum Lifters help to take the strain off operators, promote the efficient flow of materials, and ensure that hazardous or sensitive materials aren't contaminated or exposed to your workforce.











Goods In

Materials are depalletised with a PalPharma tube lifter and loaded into the PalPharMassage for conditioning before onward processing

Transfer

Clean Room materials transfe using a PalPharmaVac or PalPharmAssist. Operators transfer containers to a process skid pallet or dolly

Dispense

on to a PalPharmaTip using a
PalPharmaVac or PalPharmAssist for
dispensing, sub-division, weighting,
batching, sampling, sterility testing
and isolation

Process

Transfer and removal of powder and liquid using PalPharmaHoist and PalPharmaTip from mixers, reactors, dryers, granulators, blenders and centrifugue

Packaging

PalPharmaBlend and PalPharmaMove to fluff and feed tablet presses, encapsulation machines, tablet coaters

Dispatch

other devices for palletising, moving, loading containers and trucks

PalPharmaVac™ for Cleanroom and Process Environments

Product information

Typical applications:

- ✓ Pallet to pallet transfer and batch assembly
- ✓ Elevate containers to allow cleaning of them
- ✓ Discharging product from drum to receiving vessel or reactor
- √ Feeding product into a blender, mixer or dryer
- ✓ End of line palletising

Products handled:

- ✓ Sacks/bags
- √ Boxes/cartons
- **✓** Drums
- √ Kegs
- ✓ Reels

Weights: up to 125kg (275lb)

Coverage: To suit requirement

Finish: 304 to 316L cGMP

Features and benefits:

- Lightweight hand demountable design for ease of cleaning and low maintenance
- · Wipe down lift tube cover
- FDA approved elastomer's on suction feet
- Incorporates a HEPA filtration system which means no downstream contamination of components or maintenance areas
- Safe change



Gantry Options

Swing Jib



Ideal for close proximity lifting up to 350kg (772lb)

Articulated



Provide access in confined restrictive spaces

Mobile



Portable systems for operational convenience

H-Style



Provides large area coverage

Control Handle

Standard



Ergonomic handle for ease of use

Extended

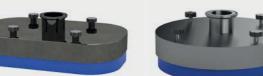


Extended handle for longer reach when lifting large products

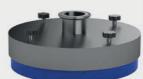
End Effectors

3

Sacks & Bags **Drums & Kegs**



Suitable for plastic and paper sacks up to 50kg

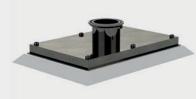


multiple options available

Boxes & Cartons Side Lift & Pour



For drums and kegs,



Available in multiple sizes to suit application



Ideal for the loading and unloading of metal, plastic and fibre drums

PalPharMassage™ Drum and Container Conditioning Systems

Product information

Products handled:

- ✓ Fibre & Plastic Drums
- √ Kegs
- √ Sacks
- ✓ Flexible containers

Finish: 304 to 316L cGMP

Features and benefits:

- PLC Control
- Simple to use by colour HMI
- Infinitely variable control
 - Height of massage arms
 - Distance into container
 - Torque
 - Speed
 - Recipe programmes
 - Time
 - Repeatability
- Mobile or Fixed Options
- Can be used with PharmaVac /
- PharmaTip or conveyors to offer turnkey automated handling and tipping solution
- Heavy duty construction
- Safety Guarding to suitrequirement
- Ex/ATEX options
- FAT and IQ/OQ documentation



Infeed Options

Vacuum Lifter



Roller Conveyor

1



Dolly



Options









PalPharmaTip™ Mobile or Static Container Tipping and Positioning

For dispensing powders and liquids into process vessels and machines. Tip your containers safely and effectively to discharge their contents.

Product information

Typical applications:

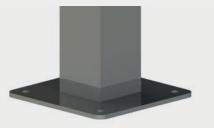
- ✓ Discharging product from drum into receiving vessel
- ✓ Discharging product from drum into reactor
- ✓ Feeding product into blender or mixer
- ✓ Feeding tablets into a sugar coater
- ✓ Feeding product into filter dryer
- ✓ Docking a drum onto an isolator
- ✓ Presenting the drum at an ergonomic height to sample product
- ✓ Presenting the drum at an ergonomic height to help protect the operator and product
- ✓ Tipping product with a laminar flow air hood to prevent dust contamination to the surrounding area
- ✓ Easy material transfer



Base Options

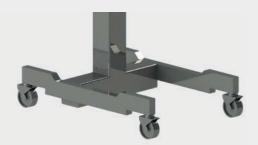
1

Fixed



Fixed in place by resin anchor bolts

Mobile



Portable systems for operational convenience

Cradle Options

Full Cradle



Roller Cradle



Advance Cradle







PalPharmaHoist™

Systems for Discharging, Docking, Feeding, Tipping, Pouring and Blending of products in IBC's, Drums and Supersacks

Product information

Typical applications:

- ✓ Discharging product from drum, IBC or FIBC into receiving vessel at high or low level
- ✓ Docking drum, IBC, sack or bag onto Isolator or Tipping Station
- √ Feeding packaging lines
- ✓ Docking split butterfly valves together with minimal downward force on the receiving half of the valve or the supporting structure
- Can be used in conjunction with a discharge squeeze funnel for high containment product transfer and sterile applications
- ✓ Platform lifts for pallets and trolleys to mezzanine levels or additional floor levels

Finish: Available in mild steel through to 316L stainless steel / Hastelloy C22

Features and benefits:

- No hydraulics
- Suitable for up to 16000mm vertical stroke and 2000m reach
- UK design and manufacture with
- CE/LOLLER approval
- Ball screw motor gearbox with failsafe
- Centrifugal over speed mechanical safety lock
- Designed to be free standing with no top support
- PLC or pneumatic controls
- Speeds up to 8m per minute



End Effectors

1

Forks

Platform Lift



Product transportation platform for pallets & IBCs

f.

For lifting IBCs, features weighing system

Drum Grip or Clamp



For side gripping drums, features 180° inversion

Squeeze Cone



For dust-tight powder handling and transfer, 180° inversion

Mast Options

Fixed Base



Fixed in place by resin anchor bolts

Manual Slewing Base



With manual lock/unlock

Powered Slewing base



Pneumatic or electrically powered





PalPharmaBlend™ Container Blending Solutions

Product information

Features and benefits:

- Variable speed rotation between
- 1–25rpm dependant up on size and weight of container
- Suitable for any type of container from 5l to 2500l
- Intergration with PalPharmaHoist for vertical elevationand docking to process vessels and machinery
- Range of safety barrier or scanner options to protect the operator from rotating equipment
- NIR and PAT options available
- Automatic vertical or dock return
- Fixed and mobile options
- No hydraulics
- Suitable for containers up to 2000kg (4400lb)
- Suitable for up to 16000mm vertical stroke and 2000m reach
- UK design and manufacture with CE/LOLLER approval
- Ball screw or chain motor gearbox with failsafe
- Centrifugal over speed mechanical safety lock
- Designed to be free standing with no top support if application allows
- PLC GAMP or pneumatic controls
- Vertical raise or lower speeds up to 8m per minute

Finish: Available in mild steel through to 316L stainless steel / Hastelloy C22



Options

1

IBC Clamp



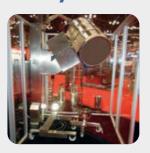
IBC cradles that accommodate all sizes

Fork



For lifting FIBC's and Supersacks

Safety Enclosure



Provides protection

Drum Clamp



For clamping plastic, metal or flexible drums





PalPharmaMove™ CGMP Fixed and Mobile Lifting and Handling Systems

Product information

Features and benefits:

- Manual push/pull M3/M5/M7 or powered drive K9 versions available
- Can be battery, electric or pneumatic No hydraulics are used ever
- PLC control system K9
- Suitable for ATEX environment to zone 1/2T4 with documentation (pneumatic)
- Optional telescopic mast to achieve 3.2m lift height but can still fit through a 2.1m doorway height
- Stacker/Straddle Base M7 5kg (11lb) 1 tonne (2200lb)capacity
- Counterbalanced K9 version 1500kg (3300lb) capacity. Higher capacity on application
- Compact footprint which is designed to fit through standard doorways

- Fully clad stainless sleep 304 or 316 construction which is easy to clean an validate
- Effortless to move
- Various and effectors available to handle drums, boxes, sacks, reels, pallets and trays
- Range of discharge cone options to aid product flow or discharge
- Optional 180° drum manipulation for pouring and blending (360°)
- · High containment options available
- Anti static wheels, non marking wheels available an optional washable wheel bay

Finish: 304 to 316L cGMP





Mobile trolley with manual handwheel raise and lower for simple transport, docking and lifting tasks



Fixed mast manually propelled mobile truck with manually actuated drum raise, lower and forward pour



Fixed mast manually propelled mobile truck with pneumatically actuated drum raise, lower and forward pour



Electrically propelled mobile truck for gripping lifting and inverting drums and IBC's, Bins and Totes up to 250kg

PalPharmAssist™

Pneumatic Engineered Static Lifting Systems for Bespoke Process, Maintenance and Electronically Classified lifting Applications

Product information

Typical applications:

- ✓ Removing process components for cleaning and re-validation between batches
- ✓ Feeding product into a process vessel
- ✓ Docking split butterfly values together with minimal downward force on the receiving half of the valve or the supporting structure
- ✓ Excellent for low headroom applications such as clean rooms, containment booths, removing components from process vessels
- ✓ Handling requiring a reach or a cantilever into a recess
- ✓ Handling a large range of drum sizes and weights for a pallet to pallet transfer application with a vacuum end effector
- ✓ Long stroke applications such as charging a bottle to a process vessel via split butterfly valve
- ✓ The unit can be floor ceiling or wall mounted with the articulated arms folding neatly together maximising production space for the operator

Load Capacities: Up to 10,000kg (22,050lb)

Finish Options: Mild steel to 316L cGMP

Features and benefits:

- Require only a clean, dry, oil free compressed air supply
- · Vertical or horizontal pneumatic cylinder
- Cable winch mounted internal of SS316
- Rigid manipulator arm up to 4m
- FDA approved gasket on all suction feet
- Low noise levels and easy maintenance complete with a two year warranty and validation documentation ensures a quality handling solution.
- Suitable for ATEX environment to Zone 1/21 T4 with documentation.



Gantry Options

Floor Mounted





Ideal where operational space is limited

Wall Mounted



Ideal where operational space is limited

Mobile



Portable systems for operational convenience

End Effector

Fixed in place by resin

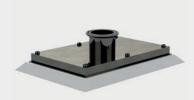
anchor bolts

Drums



For drums and kegs, multiple option available

Boxes & Cartons



Available in multiple sizes to suit application

Side Lift



Ideal for the loading and unloading of metal, plastic and cardboard drums

Hook



Suitable for removing components from vessels







PalPharmaBin™

Drum and IBC Range of Stainless Steel, In-process, Bulk Storage, Transfer and Final Packaging Containers

Product information

Typical applications:

✓ The PalPharmaBin becomes a blending vessel when used with a PalPharmaBlend, offering batch integrity and traceability. Once loaded into the blender frame, the PalPharmaBin is tumbled on an asymmetric axis to provide a quick and efficient blend

Volume: From 200 to 2500 litres

Finish: The PalPharmaBins are manufactured in 304/316L stainless steel as standard.

- Interior polished to 0.2 microns
- External finish is 0.4 microns

Large upper lid in stainless steel 304 or 3161 with lock clamp connection

Features and benefits:

- Hopper angle is 60 degree on the wide side, 50 degree on the narrow side
- Increased process efficiency and reduction in labour
- The PalPharmaBin can be partially or completely discharged and then sorted, re-used or cleaned
- Dust Tight
- Stacking feature
- Four way fork channels
- Pallet jack guides
- Silicone gaskets
- · Mass flow design
- Special hopper angle
- Sight glass
- Optional venting
- Optional Castors
- Any type of value











PalPharmaTrac™ Overhead Support Systems for PalPharmaVac™ Units

For a high specification Pharmaceutical or clean food environments Palamatic's PalPharmaTrac overhead gantry offers and idea alternative to conventional open track designs.





The lifting system runs up and down the swing arm which moves side to side giving 270° coverage and up to 350kg working load.

Where headroom is an issue, an inverted or articulated jib can be offered which can also offer 180°/360° coverage.

Features:

- Can be hung from existing steelwork, wall mounted, ceiling mounted or as a mobile base option.
- 180° or full 360° coverage.
- Lifting products up to 350kg (772lb)

All articulated arm jibs can be suspended from vertical steel columns or from existing stanchions. In some cases these can also be fitted to a building wall and offered as a mobile version.

Ideal for:

- Process operations that require a greater working area reach
- Facilities where either space or headroom is at a premium
- Movement of bags, boxes, drums, and sacks in process and dispatch areas.
- Lifting products up to 250kg (551lb)
- Easier to clean with no convoluted vacuum hose



PalPharmaTracTM stainless steel jib, bridge and monorail cranes are designed specifically with hygienic and clean room environments in mind. The unique 'diamond' profile reduces hang-up points for airborne dust particles and makes wipe down and wash down easier than flanged or tunnel track rail systems.

PalPharmaTrac™ has a closed track design of stainless steel square tubing with externally running trolleys. There is no risk of paint chipping associated with conventional mild steel, open flange, I-beam or tunnel track systems. Trolleys and end truck wheels are manufactured of FDA approved material. White acetyl co-polymer is standard for all trolley wheels, with all stainless steel structural and fastening components.

Load Capacities: 50 to 160 kg (110 to 3501b)

Reach or span is dependent on payload weight and the distance(s) between your structural supports.

Finish Options: 304 to 316L stainless steel available with a range of polish finishes







UK

Unit 20, Broombank Park
Chesterfield
United Kingdom
S41 9RT
T: +44 (0)1246 452 054
E: sales@palamatic.com

USA

Schmalz Inc.
5850 Oak Forest Drive
Raleigh
NC 27616
USA
T: +1 919 779 0988
E: schmalz.us@schmalz.com

INDIA

Schmalz India PVI. Lta.
EL - 38 J Block MIDC
411 026 Bhosari
Pune
India
T: +91 20 691155-00
E: schmalz@schmalz.co.in

www.palamatic.com www.schmalz.com