

MANUT-LM innovates for the packaging sector... with the design of a plastic film spool handling solution

**INNOVATIVE
SOLUTION**

As part of its permanent quest for "business" solutions adapted to each activity, Manut-LM has designed and manufactured a tool to optimise the lifting and tilting of packaging film spools.

In order to best satisfy market expectations, this innovation has been developed in partnership with one of the leading players in the packaging industry: **PALAMY**, a French manufacturer of plastic films for industrial packaging for 50 years.

MASTER Plus

AN INNOVATIVE PALAMY MADE-TO-MEASURE SPOOL TILTING MANIPULATOR!

A major player in the field of cobotics and manual load handling assistance, Manut-LM has been designing and manufacturing lifting tube handling solutions for over 30 years.

In partnership with PALAMY, Manut-LM has developed and implemented an innovative tool for lifting and handling plastic film spools for its production site in Le May-sur-Evre (49122): the MASTER Plus spool tilter, with an optional made-to-measure gripping tool designed for lifting industrial spools.



The MASTER Plus tilter has been custom-designed to meet key challenges for PALAMY: eliminating MSD risks *, improving workstation ergonomics, employee well-being and company productivity.

Like the companies that have already trusted Manut-LM, PALAMY was able to benefit from support throughout the project, from the identification of the most suitable solution, to its installation and implementation, as well as tests in situ in Manut-LM's own workshops. Manut-LM's proximity to its customers and the innovative capacity of its design office have made it possible to fully satisfy PALAMY's requirements and needs.

With the new MASTER Plus spool tilter, PALAMY now has a made-to-measure lifting tool capable of handling very specific loads up to 70 kg!

This innovation now enables Manut-LM to offer solutions adapted to the problems of spool lifting to all those in the packaging industry.

(*) "Musculoskeletal disorders"



A SOLUTION TO FACILITATE AND LIGHTEN THE HANDLING OF SPOOLS TO BE PALLETIZED, A CRUCIAL CHALLENGE TO IMPROVE PALAMY'S PRODUCTION RATES!

A French manufacturer of plastic films for industrial packaging for 50 years, PALAMY produces spools of plastic films of different weights, sizes and diameters.

The growth in activity at PALAMY has generated constraints in the production process: the weight of the spools to be lifted was an obstacle to improving productivity.

During the process, at the exit of the cutting device, the manufactured spools are positioned horizontally and must be tilted to be palletized. Until now, operators who manually tilted spools weighing up to 70 kg have carried out this operation. This operation method required a significant physical effort on the part of the operators, particularly on the back and caused strain, pain, fatigue and MSDs. As the loads handled were heavy and the efforts were strenuous, it was impossible to ask the operators to increase the work-rate. PALAMY therefore set out to find a suitable solution to improve workstation ergonomics, employee well-being and productivity. Not finding satisfaction with the distributors of traditional equipment, PALAMY's Technical Manager, Mr Olivier Chauveau, focused his research on a manufacturer specialized in handling solutions.

Thus, and after consultations, PALAMY called upon Manut-LM, a French manufacturer to design a made-to-measure solution to meet the need to increase the production by limiting the human risks associated with the repetitive handling of the spools.

Mr Olivier Chauveau, Technical Manager of PALAMY, testifies:

« We chose Manut-LM because this company is a French manufacturer with an integrated design office that can meet specific needs and not just a distributor of standard equipment. Then, we were won over by the wealth of the technical solutions offered but also by the customization of the offer and the possibility of being able to test the equipment before its installation. We were also very sensitive to the proximity, follow-up and listening skills of the various Manut-LM team members. »

« Finally, we were very enthusiastic about the fact that Manut-LM is developing an original handling solution for our specific needs that has not been available on the market until now! »

A PERSONALISED FOLLOW-UP AND UNFAILING SUPPORT TO MEET PALAMY'S NEEDS.

As usual, Manut-LM accompanied its customer throughout the project as part of the implementation of its made-to-measure solutions. **Thus, Mr Olivier Chauveau, Technical Manager of PALAMY is satisfied to have been able to count on the support and intervention of all Manut-LM teams :**

- Beforehand, by the sales team to study the workstation on the production site and identify the need.
- During the design phase, by the design office which was able to comply with PALAMY's ergonomic requirements (position of buttons and controls, manoeuvrability, etc.). The design office was also a source of valuable advice for the ergonomics and dimensions of the solution to be implemented.

Finally, beyond Manut-LM's know-how and business expertise, one of the important points for PALAMY is that the manufacturer had a showroom. Thus, the spool samples could be tested in Manut-LM workshops in order to evaluate the proposed handling solution before its final installation at PALAMY.

VERY INNOVATIVE AND PERSONALIZED SOLUTION FOR PALAMY.

Today, PALAMY is fully satisfied with the solution designed, manufactured and installed by Manut-LM. In fact, according to Mr. Chauveau, the initial objective was perfectly achieved, namely: increase productivity while reducing fatigue, strain and MSD risks associated with spool handling.

Mr. Olivier Chauveau specifies:

« Not only have we already been able to significantly improve production rates, but above all we have been able to significantly reduce the strain on our operators and eliminate MSD risks. We are therefore very satisfied with this lifting solution which brings much more comfort and safety to our operators. »

« We are also considering equipping ourselves with this type of manipulator for even heavier loads. »

**MASTER PLUS SPOOL TILTER...
THE INNOVATIVE STRENGTH OF MANUT-LM ASSISTING PALAMY!**

After many hours of study to address the issues of PALAMY, Manut-LM specifically designed the new MASTER Plus spool tilter-manipulator. The special feature of this new lifting tube handling tool is that it enables spools to be picked up using a suitable gripping chuck that tilts the load with ease. Thus, the MASTER Plus tilter offers effortless and painless spool handling for the operator.

One of the advantages of the MASTER Plus is that it has been designed to adapt to the variety of spools to be handled, which has had a significant influence on the dimensions of the tilter.

To do this, Manut-LM has developed a new expandable chuck. Thus, thanks to this ingenious chuck, the MASTER Plus tilter is perfectly compatible with most of the spools produced by Palamy (Ext. Ø spools from 330mm to 400mm, Int. Ø spools from 70mm and 76mm, Width from 395mm to 792mm). Capable of lifting loads up to 70 kg, this innovative manipulator is equipped with a rotary cylinder that enables the spools to be tilted. In addition, and to improve product handling, the MASTER Plus offers the advantage of being able to be used for all movements and in all spatial directions.

Finally, from a practical point of view and in order to limit the risk of accidents and falls, the MASTER Plus tilter is equipped with a LED light indicating that the load is in operating mode.

**AN INNOVATIVE, MADE-TO-MEASURE SPOOL
TILTER MANIPULATOR FOR PALAMY.**

A NEW SPOOL TILTER MANIPULATOR... FOR PALAMY



Manut-LM at Palamy with the design of a made-to-measure handling tool for its production workshops



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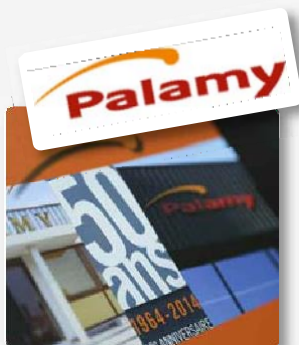


**MASTER Plus
SPOOL TILTER**

www.manutlm.uk



**PALAMY,
MORE THAN 50 YEARS EXPERIENCE IN THE MANUFACTURE OF PLASTIC FILMS!**



With its headquarters located in Le May-sur-Evre, Maine-et-Loire (49122), PALAMY is a French manufacturer of plastic film (simple, plain, neutral or printed) whose field of expertise is structured around 3 core activities: extrusion, printing and transforming.

For more than 50 years, PALAMY has been manufacturing, printing and converting polyethylene films for industrial packaging (food, medical, industrial, etc.). From bare film on spools, to printed film and even woven plastic bags for automated packaging, PALAMY supplies the entire supply chain of the profession: processors, distributors and manufacturers.

A European player, PALAMY is also the French leader in technical bags for automatic packaging (Wicket bags).

In order to ensure performance and quality, the company is constantly investing in new equipment. Thus PALAMY has been able to maintain its technological lead and improve its competitiveness since its creation.

MANUT-LM

Design, manufacture, marketing and installation of industrial lifting solutions.

A French production for more than 30 years.

Manut-LM, a French manufacturer based in Ancenis (44) in the Nantes region, has nearly **30 years experience and know-how in the design, manufacture and distribution of industrial lifting solutions for manual handling assistance**. Manut-LM has a workforce of 30 employees working in 4 areas of expertise, forming a flexible and responsive team of experts on a human scale.

All handling assistance systems are manufactured in-house in the Manut-LM workshops in Ancenis (mechanical and pneumatic design, mechanical welding and assembly) and all stages are supervised and controlled. According to the needs required, Manut-LM technicians visit each company to install and activate the appropriate equipment. Manut-LM then monitors and develops the equipment through **inspection contracts and the supply of spare parts** as quickly as possible. Manut-LM, works with the greatest in the industry such as **Nestlé, Valeo, Saint-Gobain, Bolloré, Beneteau, Skf, Bayer, Colgate, Haribo, LU, Lactalis, Fleury-Michon, Pasquier, Sodebo, Bonduelle, Henkel, L'Oréal, Clarins, Guerlain, Musée du Louvre, Banque de France, Lafarge, Philips, Nicoll, Caterpillar, Leroy Merlin, La Poste, La Plateforme du bâtiment, Isosta, Comec,...**, but also smaller ones such as the Mid-Cap companies, wood and metal craftsmen, etc.

**Manipulators for industrial lifting:
more comfort, more productivity, more quality and less stress,
to eliminate all MSD problems for the company.**

Manut-LM are manipulators, elevators, grippers and vacuum lifters whose system is based on the vacuum created by an electric pump, with a load gripping mechanism made either by a suction cup system or by mechanical tool. The lift and drop functions are performed by a control system that manages a leak, the lift and drop of the load is carried out by a lifting tube that compresses or expands according to the leak and therefore the vacuum. Most of the manipulators are installed at a fixed location either under a bracket with a rail or on an x-y rail system.

Manut-LM manipulators can transfer all types of loads from 5 to 300 kg without any effort for the operator (bags, drums, cardboard boxes, containers, cans, buckets, blocks of meat and ham, cheese wheels, wooden panels, sheet metal, etc.).

A 300 m² showroom.

In order to enable its customers and potential customers to discover and test its industrial handling solutions, Manut-LM set up a 300m² showroom in 2015, within its production workshops in Ancenis, which in less than a year has become a real showcase for its know-how.

A sales network throughout France and abroad.

With a sales network throughout France and a network of distributors present in export markets, Manut-LM is today a reference in the industry with more than **7,000 actual installations throughout the world** and more than 1,500 personalised installations.

Sectors of activity:

WOOD - CHEMICAL - PHARMACEUTICAL - FOOD PROCESSING -
BUILDING AND CONSTRUCTION – INDUSTRY - LOGISTICS - WINES & SPIRITS

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