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COMBiLiFT

LIFTING INNOVATION





Lifting Innovation Together



Robert & Martin



40,000 Combilifts in 85 countries since 1998

Combilift's wide ranging and varied product range assists companies around the world to achieve safer, space saving and more productive materials handling. At Combilift we believe in providing the very best handling solutions available and our passionate and innovative personnel work closely with customers to solve their handling requirements. Whether you handle long and awkward loads, pallets, containers, extremely oversized products or a combination of these, there is a Combilift to fit the bill.

Established by Robert Moffett and Martin McVicar in 1998, these two engineers pooled their wealth of experience and expertise to design the world's first IC engine powered, all wheel drive multi-directional forklift; the Combilift.

They have been at the helm of the company ever since as it has enjoyed unparalleled growth to offer the most extensive range of specialist multidirectional and customised handling solutions from any one single manufacturer. Continual 7% of

BUILDING ON WHAT WE KNOW



Combilift Clontibret



Combilift Gallinagh



revenue investment in R&D will keep us at the forefront of innovative product development and will further cement our position as a worldwide market leader.

With over 40,000 units produced so far we continue to set industry standards that others aspire to when it comes to quality and innovation.

“In order to keep up with the global demand for our wide range of products, we have constructed a new €50 million (\$58 million) / 46,500m² (500,000 sq ft) manufacturing facility and global HQ, and this greenfield site is situated near our two original factories in Monaghan. This will enable us to achieve our goal to significantly increase our yearly output and to double our current turnover over the next 5 years. “

Martin McVicar, Managing Director/ CEO

MADE IN IRELAND, OPERATING WORLDWIDE



Reliable, robust, simple design

Combilift's global HQ, manufacturing facility and R&D department is situated in Co. Monaghan, Ireland, where a workforce of over 500 looks after the design, development, fabrication, assembly and final despatch of its machines to destinations as far afield as the Arctic Circle, Tasmania and Argentina.

We manufacture solidly engineered handling solutions with quality, technology and design you can rely on to ensure that

you are investing in the best products for your requirements. Furthermore we use standard and readily available components so that our products can be easily maintained and serviced wherever in the world they are being used.

Substantial year on year growth and continued investment in R&D has enabled Combilift to develop its current wide ranging portfolio of products, all designed for safe, space saving and productive handling and storage, and it is now



Approved to standards ANSI/ASME B56.1, CE Machinery directive

the acknowledged leading manufacturer and innovator in its sector worldwide

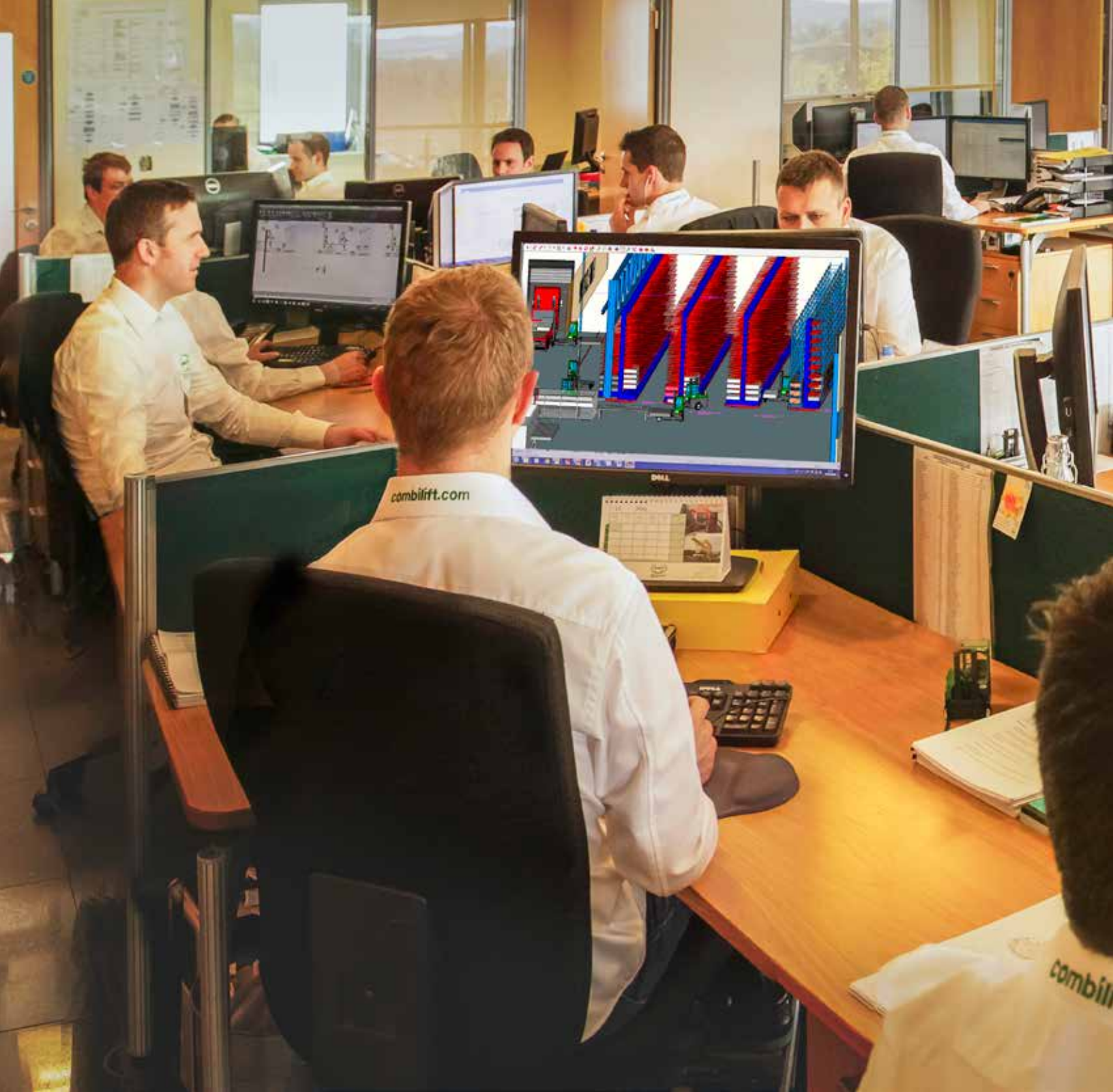
"We recognise our success is in no small part down to the support of our extensive and ever growing network of partners and dealerships around the globe.

These are all experts in their field, chosen because they share

our passion and enthusiasm for customer service – from identifying the right products for the task in hand through to unrivalled levels of after sales care and maintenance."

Robert Moffett Technical Director





Optimising your space

Combilift does more than design, build and sell forklifts; we are providers of complete logistic and warehouse solutions, and our free, no obligation warehouse layout design and logistics audit is an integral part of our service.

Our highly qualified and experienced team of design engineers work with customers to produce warehouse designs that provide a unique view of the benefits of the Combilift products. Based on plans you supply of your

warehouse or storage area, the latest 3-D CAD design technology is used to visualise the capacity potential as well as the optimum flow of materials in your facility.

Armed with this information you are best placed to reconfigure existing premises or plan the best layout in a new build to exploit the full potential of available space and maximise storage density. This can avoid costly and disruptive relocation should the volume of goods increase

FREE WAREHOUSE DESIGN



and reduces the likelihood of having to buy or rent extra space.

So why not leave it to the experts to make sure your space works as hard as our engineers do and contact us to find out more?

“Although we have a relatively large warehouse, the volume of goods we handle means that we need to exploit every inch of space. The advice and layout service from Combilift’s design engineers enabled us to ensure that we can carry a maximum of stock and guarantee a quick turnaround for our customers.”

Tomasz Groszyk, Director, ThyssenKrupp Poland

COMBi C-Series



Space saving

From the smallest 5000lbs C5000 to the giant C50000 (50000lbs) and with a wide range of models and capacities in between, the Combi C-Series offers multidirectional capability enabling sideways travel with long loads. The Combi C-Series negotiates tight corners with ease, can pass through doorways and manoeuvre safely around obstacles. The trucks work in aisles far narrower than those needed by reach or counterbalance trucks.

The Combi-C models also guarantee a comfortable ride for operators. The superior ergonomics of the high visibility cab, deep suspension seat, the options of heating or air conditioning, in-cab controlled hydraulic fork positioners and more all serve to keep manual strain to a minimum. And of course the high level of customisation ensures that each Combi-C model is built to individual requirements.



“Our Combi-C8000 models have enabled us to achieve excellent storage density and we have doubled and in some cases tripled throughput and eliminated double handling.”

Andrew Wright, Leeds Depot Director, James Latham



WITHOUT COMBILIFT

WITH COMBILIFT

COMBi C-Series



Safe multidirectional handling of long loads

At the core of the Combi C-Series is the original Combilift C8000 – the world's first IC engine powered, all-wheel drive multidirectional forklift. Launched in 1998, the C-Series can change the direction of its wheels to move forwards, backwards and sideways and changed the face of materials handling at an unmatched pace in the industry. The additional benefits of space optimisation and enhanced productivity have made the Combi C-Series a best seller around the world. Safety is paramount and never more so than when long, heavy

and potentially dangerous loads such as steel beams need to be transported around the warehouse, yard or production facilities. Combilift has made a significant contribution to safer handling procedures: the models of the Combi C-Series have integrated platforms with a low centre of gravity which provides a very stable base. Long loads can be rested on the platform, eliminating the need for risky high level travel. The C-Series Combilifts are designed with a moving mast system that extends to lift the load and retracts, allowing the product



to rest on the platform.

Working as “three machines in one” – counterbalance, sideloader and narrow aisle trucks, the Combi C-Series models are prized for their robust, no nonsense build and their ability to work to gruelling schedules, indoors and out in all weather conditions. Incorporating the highest quality standard components on the market but with a minimum of sensitive electronic parts, they are easy to maintain for long

life operation with excellent ROI.

“The Combilifts ensure the safe handling of our very long and heavy steel beams and have made a valuable contribution to our aim to establish and maintain the highest standards of health and safety performance within our industry.”

Alan Boyden, Joint MD, AJN Steelstock

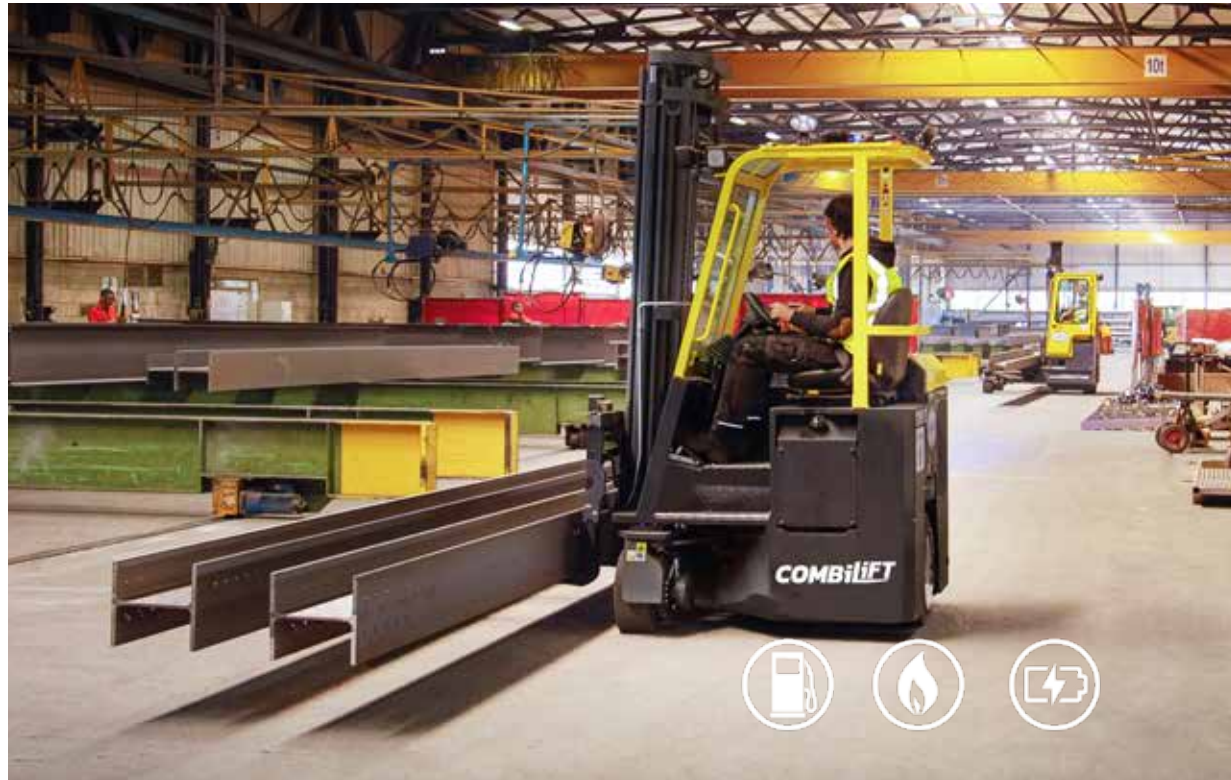


Compact multidirectional forklift

It's small but packs a punch – the Combi-CB was a groundbreaking development in the materials handling sector as it was the first forklift to combine the benefits of multidirectional capability with counterbalance design. More compact than a traditional counterbalance truck, the Combi-CB handles palletised as well as long loads and as such benefits operations that need to move and store diverse sizes of products whilst also enabling them to make optimum use of storage space.

Sharing the hallmarks of other Combilift products, the all-wheel drive Combi-CB works effortlessly indoors and out and copes with less than ideal ground conditions. Its versatility enables it to offload from HGVs, bring product directly to racking or free stacking areas as well as to feed production lines. Its compact dimensions offer a further advantage: the low profile design enables it to enter into containers for stuffing and destuffing, considerably speeding up this procedure.

COMBi-CB



The range of these highly versatile and manoeuvrable models has grown considerably since the first Combi-CB was launched: lift capacities of 5000lbs to 8000lbs are now available, with a choice of LP Gas, diesel or electric. Side shift comes as standard and an integrated hydraulic fork positioner is an option to facilitate the handling of various sized loads without operators having to leave the cab to manually adjust the forks. Other options include a fully enclosed cab, a cab heater and a detachable four fork spreader bar.

"If it wasn't for the Combi-CB we would need to set aside large amounts of space just for manoeuvring and the differing sizes of product we deal with would be a nightmare to handle with a less versatile truck."

Jim Barras, Logistics Manager, Home Decor GB Ltd

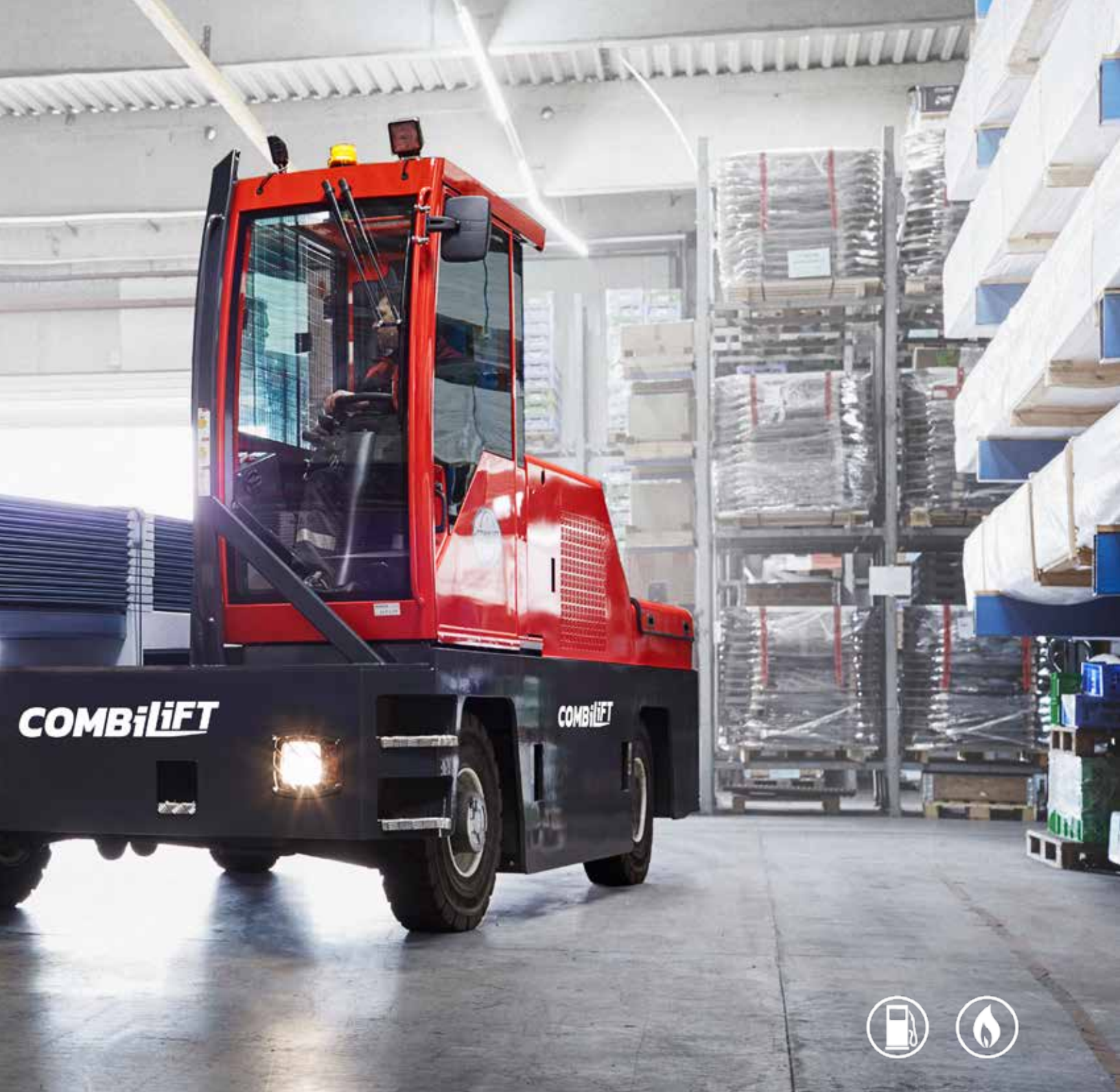
COMBi-SL Series



Making short work of long loads

Our customers asked us to complement our original Combi C-Series by providing more manoeuvrable and versatile sideloaders to fill a gap in the market – so we acted on feedback to develop the Combi-SL range. This incorporates multidirectional three-wheeled sideloaders and two directional four-wheeled models, all of which feature the highest quality components and innovative technology to offer powerful performance and dependable operation in even the most demanding applications.

The multidirectional abilities of the 8000, 10000 or 12000lbs capacity three wheel models offer numerous benefits over traditional sideloaders in that they are extremely manoeuvrable, can work in narrow aisles and are able to block or bulk stack for better space utilisation. Features such as the rubber mounted cab, all-wheel hydrostatic drive, load sensing steering, plus of course a choice of customised options such as reverse cab position or front access cab enable you to tailor your Combi-SL to exact requirements.



For operations that require robust and fast operation when moving product across extensive sites, the four-wheeled, two directional model fits the bill. Overheating during prolonged operation is a common problem with many siders but the JCB differential axle technology incorporated in these models counteracts any risk of this. Furthermore, the ultra-clean Deutz engine without DPF reduces maintenance costs, reduces fuel consumption and ensures cleaner emissions. Drivers are assured of a comfortable ride throughout their

shift thanks to the spacious cab with deep suspension seat and an adjustable steering column.

"I was impressed with the quality of the design and engineering of our siders and our drivers are equally impressed with the comfort and ergonomics in the cab of these reliable workhorses."

Colin Morrison, Transport Manager, Haldane Fisher



Narrow aisle indoor/outdoor capability

When space is at an absolute premium, such as in stockholding facilities for steel, metal, tubes, uPVC extrusions and so on, the lean machines of the Combi-ST/GT stand on-ranges are a popular choice as the narrow cab design enables operation in extremely narrow aisles. And what's more, platform lengths can be customised to fit existing narrow aisle facilities.

Reduced on-site storage costs coupled with the ability to adapt stock density to growing demand are just some of

the advantages of the Combi-ST/GT models, which were developed in response to market requirements for robust and reliable stand-on sideloaders which can manoeuvre long loads indoors and out. The option of guided aisle operation is taken up by many customers, making it very quick to enter the aisles and easy to steer down them whilst greatly reducing the risk of damage to both product and racking.

When operators are required to do a lot of picking, the cab's design makes it quick and easy to enter and exit on a regular

COMBi-ST/GT



basis compared with ride-on forklifts, and the option of a folding seat offers further levels of comfort.

Both models are of course available with a wide variety of lift heights, load capacities and customised attachments, with a choice of LP Gas, diesel or electric power. The Combi-GT is a two-way sideloader which can work in aisle-widths of just 4ft, and the Combi-ST models offer multidirectional operation. Another popular option with the Combi-ST is

the sit down cabin with diagonal seat, which offers superb operator comfort without compromising on aisle widths.

“I wouldn’t want to drive any other truck now – the ST’s visibility is great, it is easy and comfortable to operate throughout the shift and very stable when putting the 3300lbs packs into the 22ft top racking.”

David Lowndes, Driver, Cheshire Mouldings

COMBi-AM



Save space & increase productivity

50% extra storage space and reduced costs – the versatile Combi-AM VNA articulated truck delivers the goods when it comes to streamlining your operations. It replaces a combination of reach and counterbalance trucks and works in aisles as narrow as 5ft, lifting up to 50ft high to optimise every inch of storage space in the warehouse.

The Combi-AM makes light work of loading and offloading in semi-rough yards direct from trailer to racking which

increases productivity by reducing time consuming double handling. Tough, powerful and built to last, the various models in the range are available with lift capacities of up to 6,600lbs, with LP Gas, electric and diesel power options. The trucks have an unrivalled track record of reliability, and low running costs and excellent ROI are just some of the further benefits.

All electric powered models benefit from efficient 19.5kW



motors, incorporating AC technology for improved acceleration and gradeability. And with fewer wearable parts downtime is rare and low maintenance is guaranteed. Driver comfort and safety is of course high on the agenda and operators appreciate the enhanced cabin ergonomics, the smooth controls, robust overhead guard and the excellent visibility.

All Combi-AMs come with a factory backed 5 year or 5,000

hours parts warranty as standard, giving you total peace of mind as well as ensuring lowest total cost of ownership.

"We have seen a marked increase in productivity levels at every site where the Aisle-Masters have been introduced, which is good for our operators who appreciate the technology incorporated into the trucks. It is of course also good for us and therefore very beneficial to our customers."

Graeme Undy, Operations Director, Eddie Stobart



Safety first

For the handling of lighter loads, many operations increasingly favour the use of pedestrian trucks which offer a number of advantages over ride-on forklifts. Combilift launched the Combi-WR Walkie Reach stacker - the smallest model in the company's product range to date - in response to customer feedback indicating a demand for this compact and cost effective unit for the safe handling of palletized loads.

Safety was also high on the agenda in the development stages and the design incorporates a number of features to ensure utmost safety not only for the operators but also for other personnel as well as members of the public who may be in the vicinity.

The Combi-WR is the first purpose built pedestrian reach stacker with the ability to operate in a VNA aisle of just 7ft. With a lift capacity of 3300lbs, its excellent ergonomics

COMBi-WR



make it easy and stress free to operate. The unique patented multi-position tiller enables push button rotation of the rear wheel parallel to the chassis and back, allowing the operator to remain in the safest possible position when placing and picking in narrow aisles, namely at the side of the unit rather than between the truck and the racking. This improves forward visibility and greatly reduces the risk of incidents in tight confines.

"The Combi-WR offers us the versatility to handle anything we need to. I can't think of anything that would be as flexible and easy to use in our very narrow aisle operations."

Mark Cooley, Logistics Manager, JDM Food Group

COMBi-WR4



Multidirectional Walkie Reach for long loads

Given Combilift's reputation for multidirectional technology it will come as no surprise that the company developed the Combi-WR4 as an addition to its Combi-WR Walkie Reach range. It is the first purpose built pedestrian reach stacker to combine multidirectional travel with a host of innovative features to offer an even higher level of manoeuvrability when there is a requirement to handle long loads – as well as pallets - in tight confines.

Sharing the technology and design for safety of its two way counterpart and a winner of a prestigious FLTA Award for ergonomics as well as the Red Dot award for Design, the Combi-WR4 is effortless to operate, even in the most demanding environments. It incorporates the benefits of AC technology in its traction pump and steering motors, is available with various lift heights. The unique patented multi-position tiller - with push button control to rotate the rear wheel parallel to the chassis and back again - features



an operator's screen and electronic power steering and fingertip controls ensure precise and smooth travel.

Its compact dimensions with pantograph reach allow it to work in aisle widths of just 7ft. Very popular options include side shift and tilting fork carriage functions to ensure easy picking and placing in aisles as well as best use of available space for economical storage. It is very easy and quick to train operators to use the Combi-WR range, and 2-speed

operation is controlled by a rabbit/turtle switch, with a further benefit being the ability to adjust or customise travel speeds to suit the level of the operator's experience.

"The Ergonomics Award for the Combi-WR4 celebrates Combilift's drive to keep fork lift truck operators comfortable and safe, while achieving the highest levels of productivity and efficiency."

UK Fork Lift Truck Association

COMBi-SC



Container handling Straddle Carrier

The Combi-SC range does what it promises: it is a cost effective and flexible container handling solution which guarantees quick ROI even for companies with relatively low throughput levels. More economical than other types of container handling equipment, the advantages of its lighter unladen weight coupled with powerful performance and low service costs are not lost on our many satisfied customers in the distribution, shipping and haulage sectors around the world.

A Combi-SC gives you complete independence on site and eliminates the problem of waiting trailers. The Combi-SCs can lift, transport and set down 20', 30', 40' and 45' high cube containers, reefer and flat rack containers, and the recently introduced two-wide variant can offload containers from a rail car onto a trailer.

Safe ground level stuffing and destuffing of containers is a further advantage, and the optional telescopic function



enables double stacking of 35t (70,000lbs) containers whilst also being able to telescope down to manoeuvre and set down containers under low doorways. The spreader incorporated in the Top-Lift model can be adjusted to handle different sized containers from within the cab, reducing manual strain and protecting operators from the elements.

In common with the rest of CombiLift's product range, the Combi-SC's relatively simplistic design uses standard and

easily available components for extreme reliability and ease of maintenance, wherever in the world it is operating.

"We are delighted with our Combi-SC. It has given us a much greater degree of flexibility, made a huge difference to our daily operations and enabled us to increase the weekly number of TEUs we handle by 40%."

Alan Nunn, MD, Imorex Shipping Services



Oversized & breakbulk cargo Straddle Carrier

Concrete, steel, prefabricated buildings, wind turbine elements – oversized loads such as these can be problematic, time consuming and expensive to move around manufacturing facilities and to load for transportation.

The Combi-SC is a more efficient option compared to using heavy handling forklifts, reach trucks or mobile cranes and offers complete independence when moving loads around site. Two wheel hydrostatic drive, synchronised hydraulic

steering, front and rear independent side shift and the low level operator cab with 360 degree visibility make this a manoeuvrable, comfortable and very safe handling solution for all out of gauge products.

A major advantage of the Combi-SC models is their light footprint: a unit with an unladen weight of 38,000lbs, for example, can lift a 90,000lbs load with the gross weight being just 128,000lbs. In combination with even load distribution

COMBi-SC



and large tyres this significantly reduces ground pressure and allows operation on compacted surfaces, avoiding costly investments in ground reinforcement.

As to be expected from Combilift, the models in the Combi-SC range can be highly customised to suit your application. Available with diesel or LP Gas power, and now also available as a remote control version, customers have a wide array of options to choose from. These include all-wheel drive, 20'

and 40' automatic top lift, a telescopic facility, snow chains, load stabilisers, camera systems and air conditioned cabins. *"Since we took delivery of our Combi-SC, a loading procedure that used to take over three hours, involve five personnel and four forklifts is now done in 10 minutes with the one driver. The machine has given us major benefits in terms of convenience, safety and speed."*

John Henden, Production Manager, Alvan Blanch

COMBi-MG



Remote control multidirectional Mobile Gantry

The Combi-MG offers much more versatility than fixed gantries and substantially lower ground pressure than conventional heavy handling forklifts. The overall dimensions of this highly mobile and portable unit can be customised to exactly suit your products – whether they are long elements for wind turbine blades or bridge sections, cuboid loads or coils. The Combi-MG is remote controlled with all wheel steer and comes with six steering functions as standard. Thanks to multidirectional capability and carousel

function it offers superb manoeuvrability both indoors and out.

As the wheels are positioned at the front and back of the unit rather than at the side, the width of each machine need only be as wide as the loads it moves and the variants we offer are almost infinite: a Combi-MG can be made narrow enough to pass through a 10ft wide doorway while carrying a long load.



Access to all areas is guaranteed thanks to the customised wheelbase size and the telescopic function which offers maximum lift whilst at the same time enabling low door heights to be easily negotiated. Full side shift from left to right increases storage and selectivity. A rotating C-Hook, with a manual or automatic option enables coils to be handled or rotated both directions.

With the option of diesel or LP Gas power and any number

of attachments to suit your application, the Combi-MG is yet another example of Combilift's ability to turn a customer's initial problem into an opportunity for new product development, which is now being rolled out around the world.

The Combi-MG gives you the freedom to move even the most extreme loads where you want, when you want, in the tightest of spaces.



Rough terrain low profile forklift

Tough conditions need tough trucks, and that's what you get with the Combi-RT. This rugged, no compromise machine was developed specifically for the requirements of the poultry live haul sector to make the process speedier, quieter and more streamlined.

The high level of in-cab comfort is appreciated by operators who spend long periods at the wheel, often driving over rough terrain. The deep suspension seat and ample leg

room reduces fatigue for enhanced health and safety, whilst the offset driving position and excellent visibility through the mast.

Fitted with a 3 stage mast with full free lift, the RT's low profile allows it to work both outside and inside the poultry house. The large diameter tractor grip tyres, all wheel traction with differential lock and 10" ground clearance enable the machine to operate smoothly in all manner of conditions.

COMBi-RT



Radiator and oil coolers are fully sealed to minimise the risk of feathers and dust infiltrating into vital components and access to components is very straightforward to ensure the lowest possible maintenance costs.

“We were impressed with the fact that the RT has been designed from the ground up rather than modified from a standard model as is the case with other forklifts. It was immediately obvious from its robust design and array of driver friendly features that Combilift’s design engineers had thought of pretty much everything to produce a no compromise machine that is ideal for our industry.”

David Plummer, Faccenda Group