ANNIVERSARY EDITION



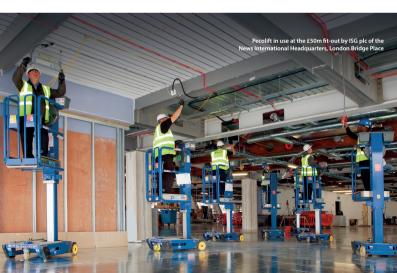


Pecolift - first choice for ISG



66 ...there was an observable increase in productivity from operatives using the (Pecolift) system.

...at ISG we are now promoting Power Towers' Pecolift as our preferred choice for low-level access works. >> Mark Mulholland, ISG plc Senior Project Manager.



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This product booklet is intended as a guide only. All dimensions, weights and specifications are subject to change without notification. The contents of this guide are not legally binding, nor do they form part of any contract.

Work at height regulations & training

An Introduction to Low-Level Powered Access

What is Low-level Access?

Safety has come a long way; the flat rung stepladder was patented by John H Balsley in 1862!

The term low-level access, now describes an entirely new specialist sector within the access industry. The term is generally used to denote operating in environments up to a 4.5-5m working height internally, on flat, level surfaces, using manual or powered access equipment. This could be using basic 'A' Frame step ladders or a fully self-propelled powered access platform.

This guide covers specifically the powered access products available in this sector, divided into two types: Push-around (manually manoeuvred) and Self-propelled.

1862, John Balsley patented the revolution in low-level access!

first flat-rung Stepladder. The first



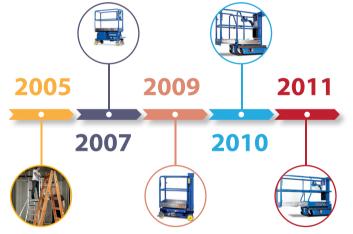
Chronology of Low-level Powered Access and Power Towers' products

MARCH 2007 POWER TOWERS FOUNDED

The Power Tower was introduced with a working height of 5.1m and a larger working platform area.

JANUARY 2010

Nano SP launched.



MID 2005

The first pusharound, low-level, access platform was introduced from China, with a working height of up to 3.65m.

JANUARY 2009

Power Tower Nano push-around launched.

Power Tower Nano SP developed.

JANUARY 2011

Power Tower Nano SP Zero and Nano SP Plus launched.

MID 2011

Product range introduced to the Middle Fast.

MARCH 2017

Power Towers celebrate 10 innovative years.

SEPTEMBER 2012

Pecolift launched; a brand new concept. The first 'nonpowered, powered access platform.'

JANUARY 2015

ATEX rated Pecolift & Ecolift launched.

JUNE 2015

JLG, the World's largest MEWP manufacturer, acquire Power Towers Ltd. New Nano SP launched.





2014

2016

2012

2015

2017



AUGUST 2014

Ecolift launched. Harnessing the same concept as Pecolift, Ecolift gives a working height of 4.2m.



FEBRUARY 2016

Power Towers range debuts at the A.R.A. in Atlanta U.S.A. under the JLG brand.

Power Towers Born and raised in Leicestershire...

Did you know?

Richard III died at Battle of Bosworth in 1400 and is interred in Leicester Cathedral.

Thomas Cook introduced the package deal holiday in 1841.

Henry Curry started his bike building business in 1884, later to become the electrical retailer Currys.

Henry Walker began making Walker's Crisps in 1948.

DNA fingerprinting discovered by Sir Alec Jeffreys in 1984.

Odds defying Leicester City FC, winners of the Premier League.

Home to the National Space Centre.

Fenny Drayton Village Leicestershire - the geographical centre of England.

Power Towers founded in 2007



Power Towers, 2007 - 2017. 10 successful years!



Power Towers was founded on 7th March 2007 by Brian King, Mark Richardson and Sandra King in a corner of a seed factory in Leicester, UK. In just 10 years Power Towers has established itself as *the* low-level access pioneer, innovator and market leader.

Power Towers name derives from its first product, the Power Tower ('The Powered Scaffold Tower') launched in reaction to the then recently introduced Work at Height Regulations in 2005 and initial demand from the UK giant Nationwide Platforms. With attitudes to Work at Height changing, the opportunity was irresistible for Brian and Mark, two industry veterans each with over 25 years experience in powered access design, manufacture and hire. Power Towers was born.

Each of Power Towers, now 8 product range, are characterised by innovation: Power Tower's automatic brake, Nano's pulley free mast, Nano SP drive system, Pecolift & Ecolift unique 'non-powered, powered' lift mechanism are all 'industry firsts'. The award winning Ecolift range being a complete step change in the industry. All remain 100% designed and manufactured in Leicester LIK

Power Towers' products have now gained the enviable position of being the No 1 specified low-level product by the UK's largest and most reputable hire companies, construction companies and fit-out contractors; working on many of the UK and Europe's largest construction projects, the founders and all of Power Towers people are very proud of that!

Acquired by JLG, in June 2015, Power Towers now enters a second chapter, with the opportunity to help create a global presence in this rapidly developing sector.



Power Towers

100% Designed and manufactured in the UK

The company harnesses state of the art design, engineering and manufacturing techniques and are now able to utilise technical and financial resources of our new owners JLG Industries and The Oshkosh Corporation.

Simplicity and detailing is what sets our products apart, quality components are fitted as standard throughout. All our range

are fitted as standard throughout. All our range a 'simple, safe, easy' ethos. We are consistently designing and engineering new ways to produce better, more intuitive machines that constantly raise standards. We place huge emphasis on feedback from our customers, which in turn enables us to manufacture ever evolving high specification, high quality, products that are simple, safe and efficient, in turn promotting easier and safer methods of use.



The people behind our success...

Of course non of our success could ever have been achieved without the strength, dedication, passion and shear hard work from our skilled workforce. Here is a quick insight into a selection of dedicated staff that have helped contribute to the last 10 years of success.

Power Towers - Our People...!

Fiona Peters & Nicky Bennett

Fiona and Nicky are an integral part of our busy administration team that deal with spare parts, customer orders and shipping.

In her spare time Fiona enjoys keeping fit with yoga, gym and swimming. Fiona is also a big animal lover. Nicky is a keen animal lover & has made friends with the sheep at the bottom of her garden!
She enjoys wildlife, photography & spending time in the countryside. When not outdoors, Nicky loves nothing more than a good action thriller movie.





All of our products pass through an extensive customer led design and development process.



Steven Elliott

Steven works with the new product development team and is based in at the research and development section of the company, commonly known internally as 'The Bat Cave.'

Steven enjoys football, snooker and go karting and says he's extremely competitive and enjoys sporting challenges. In the last 3 years Steve has successfully completed 2 Power Towers' challenges - the 3 peaks and a Leicester to Skegness and back in a day, cycle challenge.



Lee Crosse

If you've got a technical query, need your product LOLER testing or simply need new parts fitted to your hard working fleet, Lee is here to advise and/or send the necessary personnel to your premises or site.

Prior to Power Towers, Lee spent 7 years in the Royal Engineers. Lee is a big Rugby fan, supporting the Leicester Tigers and also coaching under 7's.

Travel is a passion and his holiday destination choice is Italy.



Vic Connolly

Vic is our main man for quality control and product testing, if anything as much as a washer has been left off, be assured Vic will spot it!

A keen runner, Vic has completed the Scottish Coast to Coast and is currently training for this year's Brighton Marathon. While running, it seems like the perfect opportunity to take his dog Molly, she's being trained as a Gundog!





Tom Seare

Tom looks after the distribution, shipping and handling of spare parts, together with the movement of machines nationally and internationally.

Tom is a big fan of 10 pin bowling, crown green bowling and curling.

Tom along with a few other work colleagues enjoys go karting and they can be seen out in all weathers sliding around the track.





Morten Ellis

Morten has been with Power Towers almost since day one and travelled the length and breath of Europe in the name of customer service.

Outside of work, Morten is a keen expedition and adventure racing runner. He recently completed a 108 mile course through the Peak District in 36 hours. He also enjoys rock climbing and extreme mountain biking.



Anthony Simpson

Anthony works in our 'powered' facility, which produces the Power Tower, Nano and SP range.

Anthony likes nothing more than spending time with his 9 year old son, together they enjoy archery, canoeing, laser 'clay' pigeon shooting and rock climbing to name but a few.

Anthony has an eclectic taste in music, from hip hop to Frank Sinatra.

Why use Low-Level Powered Access?

In the UK before 2005, low-level access meant traditional stepladders, early podiums and mobile scaffolds. That changed in 2005 when the

HSE introduced the Work at Height Regulations, restricting the use of traditional forms of access. The market was ready for low-cost, lowlevel powered access...



Why choose Low-Level Powered Access?

Q: Why choose Low-Level Powered Access?

A: It is easier, simpler, quicker, more efficient and safer to use than manual ladders, steps, podiums or small scaffold towers.

Q: Why choose Power Towers & JLG?

A: Power Towers design and manufacture premium, high specification, high quality low-level access platforms.

Power Towers was acquired by JLG in June 2015. As the World's largest manufacturer of MEWPS (Mobile Elevating Work Platforms) JLG offer an unrivalled global dealer and support network. The acquisition has opened up huge opportunities and resources for both developing the market and in the continued innovative design and development of our market leading products.

Whatever your low-level access requirement...

• Power Towers Limited designs and manufactures its range of low-level powered access products 100% at their manufacturing base in Leicester, U.K. Constant product evolution and development ensures users benefit from the latest technologies.

- 2 The impressive range currently comprises eight machines: Five push around machines, the Power Tower, the Nano, the revolutionary Pecolift and Ecolift, and self-propelled machines with the Nano SP range.
- 3 Power Towers' products are simple, safe, easy and efficient to use. They can dramatically reduce working hours when compared with mechanical manual alternatives and represent excellent value for money. All Power Towers' products comply with the relevant European Machineries Directives and are CE marked to EN280. They are all third party approved by SGS International.
- With the efficiencies gained by utilising class leading platform sizes combined with small working footprints, the Power Towers' range is now specified by many of the leading construction and hire companies in the UK, Europe and the Middle East.

This guide aims to introduce you to low-level access and the Power Towers product range. If you require further information please visit our website at powertowers.com.



The Leading Contractors...
...use the leading low-level powered access products.

Push-around Machines

Easier and more productive than manual access: the user simply steps into the fully guarded platform and presses a button or turns a handle.

No need to erect and dismantle a scaffold tower or climb up the podium or platform steps. Position the platform height exactly where you want it.



- Flexibility to work at the correct height
- Handrail protection already in place from the ground up
- Light weight: ideal for raised access 'computer' flooring e.g Kingspan®
- Fits through standard single doorways and into passenger lifts
- Transported in medium sized van
- Improved productivity: up to 4 times faster when compared to traditional forms of access such as scaffold towers
- Up to 300 lifts per charge; unlimited on Pecolift
- Automatic braked wheels on elevation
- CE marked and conforms to EN280 and European Machineries Directives
- All our powered machines are available with AGM (Absorbent Glass Mat) batteries for zero battery maintenance

Applications

Push-around machines such as the Power Tower and Power Tower Nano are used where the application calls for access up to 5.1m. The Power Tower's large platform is favoured by dry-liners, pipework and ducting contractors. The Nano is usually the preferred choice where the application requires a

smaller footprint, yet large platform area.

Pecolift has the smallest working footprint for very congested working areas and uses no batteries or power, simply a patented lift mechanism. Ecolift retains the Pecolift concept, but with a 4.2m working height.

Typical users:

Construction

- Single and multi-storey projects
- Mechanical and Electrical, heating, ventilation, air conditioning
- Dry-lining, glazing
- Fit out
- Shop-fitting
- Numerous finishing trades, including painting & cleaning Pecolift and Ecolift can also be used in hazardous zone 1 and 21 areas in oil, gas and chemical plants and both are ATEX approved for zones 1 and 21

Maintenance & Refurbishment

- Cleaning
- Painting
- Mechanical and Electrical, Offices, Schools, Hospitals and industrial maintenance
- Retail refit and display



Self-Propelled Machines

Low-level, light weight, self-propelled machines like the Nano SP range offer an even more productive alternative to push-arounds in the right application.

Where the user has many repositions through the working day, or regular movement when elevated, then self-propelled offers the convenience of not having to descend to move or not having to step out of the platform to move



Features and Benefits

- Nano SP (self-propelled) range of models can be driven (no need to push) even at full height
- Offer a selection of cantilever decks for increased outreach and platform size
- Very manoeuvrable in congested areas
- Up to 20Km range from single charge (or combination approximately 8Km and 300 lift cycles)
- Lightweight & low ground pressure: (440-550kg) ideal for raised access computer flooring e.g. 'Kingspan®' or delicate flooring
- Improved productivity: up to 12 times faster compared with traditional forms of access such as scaffold towers, podiums or step ladders
- Highly manoeuvrable due to intuitive, sensitive micro joystick controls
- CE marked and conforms to EN280 and relevant European machinery directives
- All our powered machines are available with AGM (Absorbent Glass Mat) batteries for zero battery maintenance

Applications

If cleaning, painting, installing electrical cabling or similar, self-propelled can save many hours per week. For convenience the Nano SP range offers the combination of a very small footprint for manoeuvring in very congested work spaces and a large work platform area when utilizing the cantilever deck options (SP and SP Plus). The cantilever deck options also give the user the ability to work over obstacles. The low weight of the Nano SP range also allows use on raised access computer flooring (Kingspan®) and enables a number of machines to be used together on multi-storey applications where overall floor loading has to be considered.

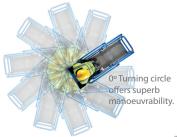
Typical users:

Construction

- Single and multi-storey projects
- Mechanical and Electrical, heating and ventilation
- Dry-lining, glazing
- Fit out
- Shop-fitting
- Numerous finishing trades

Maintenance

- Volume cleaning
- Volume painting
- Mechanical and Electrical
- Offices, Schools, Hospitals and other facilities and industrial maintenance
- Retail refit and display
- Office developments







Working Height: 5.1 m

PUSH AROUND

Applications: Dry-lining.
Pipe & Ductwork. Air conditioning.

M&E. Shopfitting, Retail.

POWER TOWER.
The Powered Scaffold

Tower

With a large work platform (1520mm x 750mm), the Power Tower gives the user more room to work and more room for tools and equipment, in fact more than 50% larger than its nearest competitor

The Power Tower requires less moves to cover the same area for many applications. and at only 780mm wide will still pass comfortably through a standard single doorway.

The heavy duty Power Tower really is the cost effective, safe and efficient alternative to large podiums or small scaffold towers.

Typical applications and users: For users who want larger platform size for themselves, tools and equipment.

Typically dry-lining, pipe and duct work, air-conditioning, general M & E contractors, shop-fitters, retail refit etc.

KEY FEATURES

- 3.1m platform height, 5.1m working height
- 250kg safe working load (1 Person)
- Compact Only 0.78m wide, passes easily through standard doorways
- Large 1.52m x 0.75m platform size
- Only 0.78 x 1.6m working footprint
- Easy access gate



OPERATING SPECIFICATIONS

 Maximum working height:
 5.10m

 Maximum platform height:
 3.10m

 Platform dimensions:
 1.52m x 0.75m

 Working foot print:
 1.60m x 0.78m

 Safe working load:
 250kg

CLOSED DIMENSIONS

 Length:
 1.60m

 Width:
 0.78m

 Height:
 1.85m

 Weight:
 342kg

POWER OPTIONS

Battery: 12V c/w automatic charger.
Mains: 110V or 230V.

Controls: Simple push button basket controls.

Construction: Heavy duty fabricated

steel superstructure, stainless steel bushed pivots

tough powder coated finish.

Safety: CE marked, complies fully with EN280 and relevant European

machinery directives. Full fail-safe hydraulics, automatic locking wheels.

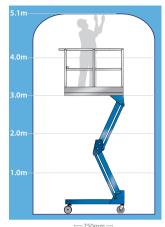
Options: Tilt alarm c/w auto cut-out.

Narrow basket for suspended ceiling grid access.

Pipe Carrying kit (max 2" pipe). Tool tray. Foam buffer kit.

SAFETY FEATURES

- Fail-safe hydraulic circuit complete with check valve on lift cylinder
- Improved heavy-duty Auto-Lok wheels on elevation provide secure base
- Emergency descent from ground level
- Audible ascent and descent drive alarm.





nano

NANO The ultimate in Low-Level Powered Access

Push into position, step in, press a button. Simple, Safe, Efficient,

At Power Towers we believe safety is paramount. In line with the Power Tower range, the Nano has Auto-Lok wheels on elevation. as standard.

With a 2.5m platform height and 4.5m working height, the heavy-duty Nano maximises platform size whilst minimising working footprint, giving the operator more room to work in confined areas

Typical applications and users: Nano maximizes platform size within a small footprint, ideal for users where the workspace is congested; second fix M & E work, busy retail refitting, simple spot work, new construction or maintenance

KEY FEATURES

- 4.5m working height
- Low platform entry height only 360mm
- Only 1.19m x 0.75m working footprint
- Passes easily through single doorways
- Large 1.0m x 0.73m platform size, gives
- the user more room to work
- Heavy duty Auto-Lok wheels on elevation

PUSH AROUND Indoor use

Working Height: 4.5 m

Applications: Construction: Finish work, multi-storey projects, M&E, HVAC contractors, painters, etc.

FM: Cleaning, painting, decorating and general building maintenance in offices, schools, hospitals and industrial maintenance.



OPERATING SPECIFICATIONS

Maximum working height:
Maximum platform height:
Closed platform height:
Platform dimensions: 1
Working footprint: 1
Safe working load:

4.50m 2.50m 0.36m 1.00m x 0.73m

1.19m x 0.75m 200kg

200kg (1 person plus tools)

CLOSED DIMENSIONS

 Length:
 1.195m

 Width:
 0.75m

 Height:
 1.56m

 Weight:
 285kg

Power: 12V D.C. Battery.

Controls: Simple push button heavy

duty pendant controls for

ground and platform.

Construction: Heavy duty fabricated steel superstructure and 2 stage

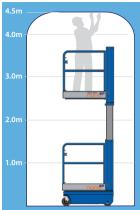
mast with Ultra-Glide technology. Tough, powder coated finish.

Safety: Full fail-safe hydraulic circuit.

Auto-Lok wheels.

Options: 110V or 230V mains power.
Tilt alarm with auto cut-out.

Protective storage cover.



_____ 750mm _____

SAFETY FEATURES

- Fail-safe hydraulic circuit complete with check valve on lift cylinder
- Improved heavy-duty Auto-Lok wheels on elevation, provide secure base
- Emergency descent from ground level
- Audible ascent and descent drive alarm





NANO SP ZERO. A self-propelled platform that's as easy to use as a push around.

At $1.2m \times 0.75m \times 1.59m$ and only 456kg, SP Zero will fit standard lifts, can be transported in most small vans and be driven on delicate flooring. The SP Zero can be used indoors and outdoors and is wind rated to 12.5m/s.

With large 1.00mm x 0.73m basket and low 360mm entrance height the SP Zero really is user friendly. Simple, intuitive joystick controls enable the user to smoothly manoeuvre. The SP Zero has a drive capacity of around 12km.

Typical Applications and users: Faster and more efficient than a push–around for Contractors who are on the move regularly; electrical cable installation, painting, cleaning, rapid retail refit work especially in very confined environments.

KEY FEATURES

- Fully self-propelled when elevated
- Ultra compact, only 1.2m x 0.75m footprint 4.5m working height rated for indoor and outdoor use
- Only 456kg easily transported, can be used on delicate floors
- Simple intuitive single joystick controls

SELF PROPELLED Indoor & Outdoor use

Working Height: 4.5 m

Applications: Construction: Finish work, multi-storey projects. M&E, HVAC contractors, painters, etc.

FM: Cleaning, painting, decorating and general building maintenance in offices, schools, hospitals, and industrial maintenance.



OPERATING SPECIFICATIONS

Maximum working height: 4.50m Maximum platform height: 2.50m Closed platform height: 0.36m

Basket dimensions: 1.00m x 0.73m Working footprint: 1.19m x 0.75m Safe working load: 200kg

(1 person plus

Maximum manual force: 200N
Max. gradient for operation: 1.8°
Max. wind force: 12.5 m/sec

Maximum weight Inc payload:

456kg +200kg = 656kg Maximum castor point load 200kg (2.00 kN) Drive speed max. 4.6KpH Drive speed slow 0.7KpH

CLOSED DIMENSIONS

 Length:
 1.20m

 Width: 0.75m
 1.59m

 Height:
 1.59m

 Weight:
 456kg

POWER SOURCE/DRIVE

Standard 24v DC Electric Motor 24V D.C. Motor/Gearbox Drive

BATTERY CHARGER SPECIFICATION

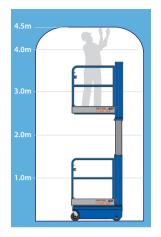
 Input Voltage:
 90-265V AC

 Frequency:
 45-65 Hz

 Output:
 24VDC, 7A

SAFETY FEATURES

- Fail-safe hydraulic circuit complete
 - with check valve on lift cylinder
- Built-in pothole protection
- Tilt sensor complete with alarm and cut-out
- Automatic basket overload cut-out
- Automatic elevated drive-speed reduction
- Emergency descent from basket and ground
- Automatic dynamic parking brake







NANO SP The ultimate in self-propelled, low-weight, Low-level access.

The Nano SP provides the user with a tiny working footprint of $1.2m \times 0.75m$ (closed) and a large platform of $1.5m \times 0.72m$ (deck extended).

Typical use:

M & E contractors, especially electrical installation work, pipe work, cleaning, painting, retail refit, retail and facilities maintenance where outreach is required.

2017 EVOLUTION ENHANCEMENTS

Ground clearance 75mm Increased gradeability; Now 40% Increased torque drive motors; Improved steering and control performance

LED display at ground controls with fault finding diagnostics and data Larger diameter with lower ground pressure drive wheels Solenoid lock swivel castor locks

Enhanced durable castors and wheels Enhanced motor gearbox

Increased clear platform space Enhanced cantilever design Quieter motor/pump with increased

efficiency IP67 battery charger with clear LED

charge display

Maintenance free AGM batteries

SELF PROPELLED Indoor & Outdoor use

Working Height: 4.5 m

Applications: Pipe Work, M & E. Cleaning. Painting. Retail. FM.

All applications where outreach is required from small footprint.



OPERATING SPECIFICATIONS

Maximum working height: 4.50 m Maximum platform height: 2.50 m Outreach inc. cantilever to cage edge: 0.50

Basket dimensions: 1.00 m x 0.73 m Basket dimensions with cantilever: 1.50 m x 0.73m

Basket dimensions with cantilever: 1.50 m x 0.73m
Basket dimensions without cantilever: 1.00m x 0.73m
Working footprint: 1.22 m x 0.75 m

Safe working load: 1.22 m x 0.75 m
200 kgs (1 person plus tools)

200 N

500 kas

O٥

Maximum manual force:

Max. gradient for operation:

Max. wind force: 12.5 m/sec
Maximum weight Inc payload: 500kg + 200kg

= 700 kgs Maximum castor point load 210 kgs (2.10 kN) Drive Speed Max.: 3.0 KpH

Drive Speed Slow: 1.0 KpH
Elevated Drive Speed: 0.7 KpH
Max. Wheel force: 2.2 kN
Gradeability: 40%

Closed Dimensions

 Length:
 1.22 m

 Width:
 0.75 m

 Height:
 1.59 m

Weight: Power Source/Drive

Standard 24v DC Electric Motor: 24v DC Motor/Gearbox Drive:

Battery Charger Specification
Input Voltage: 180-265 v AC

Input Voltage: 180-265 v AC
Frequency: 45-65 Hz
Output: 24V DC, 7/8A
Emission EN 55014N. EN 61000 – 3 – 2

Power Sound Level:

SAFETY FEATURES

- Fail-safe hydraulic circuit complete with check valve on lift cylinder
- Automatic pothole protect ion on elevation
- Tilt sensor complete with alarm and cut-out
- Automatic basket load sensing, complete with alarm and cut-out
- Automatic elevated drive-speed reduction
- Emergency descent from basket and ground
- Audible ascent and descent drive alarm
- Amber flashing beacon.
- Automatic dynamic parking brake.







SELF PROPELLED Indoor & Outdoor use

Working Height: 4.5 m

Applications: Retail. Maintenance. over machinery. Any application where up to 2000 mm outreach is required.



NANO SP PLUS.

Simply the most versatile Low-Level self-propelled platform.

With a 4.5m working height the SP Plus has a full 1.0m cantilever deck and yet maintains a compact 1.2m x 0.75m footprint. In addition a large 2.0m x 0.73m platform area to work from and 1.5m working outreach with cantilever extended.

The SP Plus has simple, intuitive joystick controls and at only 540kg is able to work on raised access and other delicate flooring and be transported by small a van or truck. The SP Plus is ideal for those applications where extra outreach from a very small footprint is required; retail, maintenance over machinery and numerous other restricted access applications.

KEY FEATURES

- Large 2.0m x 0.73m platform size (cantilever extended)
- Fully self-propelled when elevated
- 4.5m working height
- 1.0m cantilever deck: 1.5m working outreach
- Ultra-compact, only 1.2m x 0.75m footprint
- Simple intuitive joystick for all functions
- Only 540kg, able to work on raised access flooring (Kingspan® approved)



OPERATING DIMENSIONS

Maximum working height: 4.50m Maximum platform height: 2.50m Closed platform height: 0.39m Outreach with cantilever,

 deck to cage edge
 1.00m

 Working outreach:
 1.50m

 Basket dimensions:
 1.00m x 0.73m

Basket dimensions inc cantilever:

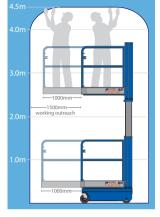
2.00m X 0.72m
Working footprint: 1.20m x 0.75m
Safe working load: 200kg - main platform.

120kg - cantilever deck.
Maximum manual force: 200 N
Max. gradient for operation: 1.8°
Max. wind force: 12.5m/sec

Maximum weight, Inc payload:

 $\begin{array}{cc} 540 \text{kg} + 200 \text{kg} = 740 \text{kg} \\ \text{Maximum castor point load} & 210 \text{kg (2.10 kN)} \\ \text{Drive speed max.} & 4.6 \text{KpH} \end{array}$

Drive speed slow 0.7KpH



CLOSED DIMENSIONS

 Length:
 1.20m

 Width:
 0.75m

 Height:
 1.59m

 Weight:
 540kg

POWER SOURCE/DRIVE

Standard 24V DC Electric Motor. 24V D.C. Motor/Gearbox drive

BATTERY CHARGER

Input Voltage: 90-265V AC Frequency: 45-65Hz Output: 24V DC, 8A

SAFETY FEATURES

- Automatic pothole protection
- Tilt sensor complete with
 - alarm and cut-out
- Automatic basket load sensing, with alarm and cut-out
- Automatic cantilever load sensing valarm and cut-out







Welcome to a new concept in Low-level Powered Access... 'Non-Powered, Powered Accesso'





ecorange



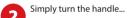
Non-Powered, Powered Access...

...a major step change in low-level access.

It's so easy, fast and efficient to use, it's intuitive. Just step in and turn the handle! And you don't need power; no batteries to charge or mains.









Gone are the days of climbing steps or podiums, no more slips, trips or having to balance!







Pecolift converts 10% human energy into 100% of the power required to elevate to full working height, in just 11 seconds!



Stop wherever you want up to 3.5m working height.

You're fully guarded from the ground up. And being virtually maintenance free, it's so simple!



PUSH AROUND - Self Powered Indoor Use

Working Height: 3.5 m

Applications: Pipe Work, M & E. Cleaning. Painting. Retail. FM.
All applications where outreach is required.

POWER FREE OIL FREE

3.5 METRE WORKING HEIGHT

Battery and electric power free, the Pecolift is elevated by simply and easily rotating the handle; the patented lift mechanism glides you smoothly to your chosen working height in seconds.

With no batteries (to charge and look after) and no hydraulic oil the Pecolift is truly an Eco friendly solution. It's tiny footprint and simplicity of use finally provides a purely mechanical solution that doesn't involve erecting, unfolding or climbing.

We call it 'Non-Powered, Powered Access.'

KEY FEATURES

- Intuitive to operate turn handle to elevate
- Patented* lift mechanism, no power required
- Lightweight, easy to manoeuvre
- Small footprint (985mm x 700mm)
- Unlimited lift cycles, can be used 24/7
- Robust design for years of trouble free service
- Minimal operational costs, virtually maintenance free



SPECIFICATIONS

WORKING DIMENSIONS

Maximum working height: Maximum platform height: Basket dimensions:

Working footprint: Safe working load:

Maximum manual force: Maximum gradient for operation: Maximum wind force:

Maximum wheel force: Maximum castor point load: Sound pressure level: 0 degrees Internal use only, 0 (zero) mph 125kg 125kg (1.23kN) Less than 70Dba

3.50m

1.50m

150kg (1 person + tools)

200N

720mm(L) x

985mm x 700mm

CLOSED DIMENSIONS

 Length:
 985mm

 Width:
 700mm

 Height:
 1.55m

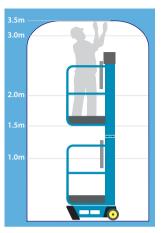
 Weight:
 180kg

LIFT CYCLES Unlimited

SAFFTY FFATURES

- Auto-braked on entering basket
- 'Auto-lok' brake on elevation
- Dead Man's handle
- Fail-safe lifting mechanism











Can be specified for ATEX approval for Zones 1 and 21.

ecocompliant



Pecolift is hydraulic oil and battery free, and with no need to charge, has no energy consumption. Pecolift is an eco friendly solution to Powered Access needs.



PUSH AROUND - Self Powered Indoor use

Working Height: 4.2 m

Applications: 1st & 2nd fix. Pipe Work, M & E. F.M. Cleaning, Painting. Point of Sale, Retail.

BATTERY FREE POWER FREE OIL FREE

4.2METRE WORKING HEIGHT

As part of the Eco range the Ecolift still harnesses the same ECO friendly revolutionary 'Patented Stored Power System' as the Pecolift but at 4.2m offers almost a metre extra in working height.

With no batteries (to charge and look after) and no hydraulic oil, the Ecolift is truly an Eco friendly solution.

We call it 'Non-Powered, Powered Access'

Typical applications and uses: 1st & 2nd Fix. Pipe Work, M & E. FM. Cleaning, Painting. Retail Point of Sale FM

KEY FEATURES

- Intuitive to operate turn handle to
- Patented* lift mechanism, no power required Lightweight, easy to manoeuvre
- Small footprint (1.28m x 700mm)
- Unlimited lift cycles, can be used 24/7
- Robust design for years of trouble free service
- Minimal operational costs, virtually maintenance free



SPECIFICATIONS

WORKING DIMENSIONS

Maximum working height: 4.20m Maximum platform height: 2.20m Basket dimensions: 850mm(L) x 644mm (W)

Working footprint: 1.28m x 700mm Safe working load: 150ka (1 person + tools)

200N

Maximum manual force: Maximum gradient for operation: 0 degrees

Maximum wind force Internal use only, 0 (zero) mph Maximum wheel force: 234ka Maximum castor point load: 234kg (2,29kN) Sound pressure level: Less than 70Dba

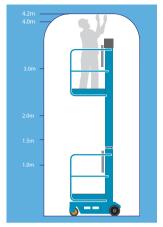
CLOSED DIMENSIONS

Length:	1.28m
Width:	0.70m
Height:	1.94m
Weight:	305kg

LIFT CYCLES Unlimited

SAFFTY FFATURES

- Auto-braked on entering basket
- 'Auto-lok' brake on elevation
- Dead Man's handle.
- Fail-safe lifting mechanism







Can be specified for ATEX approval for Zones 1 and 21.





Pecolift is hydraulic oil and battery free, and with no need to charge, has no energy consumption. Pecolift is an eco friendly solution to Powered Access needs

ecolí 4.2m Non-Powered, Powered Access WIND RATED

BATTERY FREE POWER FREE OIL FREE

4.2METRE **WORKING HEIGHT** & WIND RATED!

As part of the Eco range the Ecolift still harnesses the same ECO friendly 'Patented Stored Power System' as the Pecolift but at 4.2m offers almost a metre extra in working height and still with no batteries (to charge and look after) and no hydraulic oil, the Ecolift is truly an Eco friendly solution.

We call it 'Non-Powered, Powered Access,'

Typical applications and uses: Outdoor use. ATEX approved for Hazardous environments. Passive Fire Protection, Gas Detection, Valves.

- Operable on gradients up to 3° and in winds up to 12.5m/s
- Intuitive to operate turn handle to elevate
- Patented* lift mechanism, no power required
- Lightweight, easy to manoeuvre
- Small footprint (1.28m x 950mm)
- Unlimited lift cycles, can be used 24/7
- Robust design for years of trouble free service
- Minimal operational costs, virtually maintenance free

PUSH AROUND - Self Powered Indoor & Outdoor Use

Working Height: 4.2 m

Applications: ATEX Compliance Environments, Passive Fire Protection. Gas Detection, Valves & Flanges, Pipe Supports. Cable Trays. Warehouse & Stores



gradients up to 3° and in winds up to 12.5m/s

SPECIFICATIONS

WORKING DIMENSIONS

Maximum working height: 4.20m
Maximum platform height: 2.20m
Basket dimensions: 850mm(L) x
644mm (W)

Working footprint: 1.28m x 950mm
Safe working load: 150kg
(1 person + tools)

Maximum manual force: 200N Maximum gradient for operation: 3°

Maximum wind force: Internal/External use. 12.5m/s
Maximum wheel force: 245kg (2.4kN)
Maximum castor point load: 245kg

Sound pressure level:

CLOSED DIMENSIONS

 Length:
 1.28m

 Width:
 0.95m

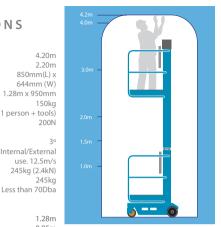
 Height:
 1.94m

 Weight:
 335kg

LIFT CYCLES Unlimited

SAFETY FEATURES

- Auto-braked on entering basket
- 'Auto-lok' brake on elevation
- Dead Man's handle
- Fail-safe lifting mechanism







Can be specified for ATEX approval for Zones 1 and 21.



Access needs.







Non-Powered, Powered Access ATEX approved for hazardous industries

WIND RATED LOW-LEVEL ATEX ACCESS

Providing a Safer Oil & Gas workplace at a reduced cost*

- Replaces Scaffolding
- Replaces Stepladders and Podiums
- Avoid risk Working at Height
- ATEX Certified for Zones 1 & 21
- Wind Rated to 27.9mph
- Deploy in Modules/Units/Turbines/for hard flat surfaces up to 3 degrees angle

Providing access to Oil & Gas Plant and Equipment

- Valves, Flanges, Pipe Supports, Deluge Systems
- Lighting, JB, Trace heating, Cables, Tray works
- Gas Detection, LOS, Gas Alarms, Measurement & Control
- Fabric & Maintenance, Blast, Coatings, Insulation & Wraps
- Passive Fire Protection (PFP)
- Inspection, Bombing, Cleaning
- Rigging high or awkward lifts
- Warehouse and Stores
- Tool Carousel maintenance
- Washing high vehicles & equipment
- O&G site office maintenance "Pecolift & Ecolift"



Work at Height Regulations



Brief summary of the Work at Height Regulations (WAHR) 2005, for more information; visit www.hse.gov.uk/falls.

In 2013/14 falls from height accounted for 39 fatal accidents and 28,528 major injuries. They are the single biggest cause of workplace deaths and one of the main causes for major injury.

What is 'Work at Height' (WAH)?

A place is 'at height' if a person could be injured from falling from it.

'Work' includes working or moving around at work at height. e.g. a sales assistant on a stepladder would be working at height or a tradesman on a scaffold tower.

Do the rules apply to you?

WAHR apply to all work at height where there is a risk of a fall liable to cause personal injury. They place duties on employers, the self-employed, and any person who controls the work of others.

If you are an employee or working under someone else's control you must:

- Report any safety hazard to them.
- Use the equipment supplied properly, following any training and instructions.

What you must do as an employer

You must do all that is reasonably practicable to prevent anyone falling. The regulations set out a simple hierarchy for managing and selecting equipment for work at height.

Duty holders must:

Avoid work at height where they can.

Use work equipment or other measures to prevent falls.



Planning

- Ensure that no work is done at height if it is safe and reasonably practical to do it other than at height.
- Ensure that the work is properly planned, appropriately supervised, and carried out in as safe a way as is reasonably practical.
- Plan for emergencies and rescue.
- Take account of the risk assessment carried out under regulation 3 of the management of Health and Safety at Work Regulations.

Training

HSE regulations require operators of access equipment to be adequately trained for the piece of access equipment they are using.

We recommend that the user of low-level powered access products should have two levels of training, a general formal course, either for push-around machines or self-propelled machines and in

addition specific product training.

For push around machines the Push Around Vertical (PAV) course by IPAF or similar approved body is recommended (as below) followed by specific product training. Note: Many large companies or organisations recommend that product specific familiarisation is adequate training for push around type machines.

For self-propelled machines the category 3A course by IPAF or equivalent for Self-Propelled Vertical machines is recommended followed again by specific product training.



In 2013/14 falls from height in the UK alone, accounted for 39 fatal accidents and 28,528 major injuries.

Push Around Vertical (PAV) Course

Who should attend?

This programme is designed for the operators of push around verticals (PAV's), renewal of PAL cards or to learn how to operate PAV's.

Aim

To instruct an operator to prepare and safely operate various types of PAV's and to obtain an IPAF MEWP operator's licence.

Knowledge

By the end of the course delegates will also:

- Be aware of the relevant Health & Safety regulations
- Be aware of the needs to wear Personal Protective Equipment (PPE)
- Be aware of the need to refer to the machine operating manual



Training Methods

Classroom based tutorials, demonstrations, practical and test.

Mobile (self-propelled) Vertical, Category 3A Course

Who should attend?

This programme is designed for the operators of self-propelled scissor lifts or mast lifts that can be driven when closed or at full height. Attendees will learn how to operate typical vertical self-propelled type machines.

Aim

To instruct an operator to prepare and safely operate various types of vertical selfpropelled machines and to obtain an IPAF MEWP operator's licence, category 3A.

Knowledge

By the end of the course delegates will also:

- Be aware of the relevant Health & Safety regulations
- Be aware of the needs to wear Personal Protective Equipment (PPE)
- Be aware of the need to refer to the machine operating manual

Training Methods

 Classroom based tutorials, demonstrations, practical and test.

Further information: www.IPAF.org







IPAF C E

WHATEVER YOUR LOW-LEVEL ACCESS NEEDS,
POWER TOWERS HAS A MACHINE FOR EVERY JOB.
MARKET LEADING, AWARD WINNING LOW-LEVEL ACCESS PRODUCTS.

















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*Ecolift & Pecolift Patent: U.K. Patent no. 2500997 Europe wide Patent no. 13724311.9