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## ELECTRIC SCISSORS

Right: Haulotte's latest offering, the Compact 10 N, falls into the 'skinny mini' scissor lift category. The unit provides an 8 metre platform height and can pass through a single doorway.

With platform heights in excess of 7 metres and widths of around 750 millimetres, the micro electric scissor lift is now the access sector's highest volume product. C&A has scoured the market to see what is available in the UK and what direction each manufacturer has taken with its own machines.



# Coming of age

**MICRO SCISSOR** lifts are those generally accepted to be able to pass through a single door and have an overall length of under two metres. They are today the most popular of all aerial lifts in terms of units produced, and during the last few years, the popularity of these units has exceeded that of the traditional 20 foot (6.1 metre) narrow electric scissor, the so-called "Skinny Mini" in US parlance.

Included in the following survey is a unique micro scissor unit produced by Italy-based manufacturer IPM, which is currently not marketed in the UK. This unit is a traditional micro scissor, but measures only 1.43 metres long - the shortest of any scissor product in the category - yet the unit offers platform heights of up to 7.1 metres which is by far the highest in the sector. How do they do it? Good question! C&A will be looking to review this unit in a future issue.

## MICRO SCISSOR LIFTS

**MICRO SCISSORS** are typically between 1.6 - 1.8 metres long, just 760 millimetres wide and appreciated for their ultra compact size. Most units offer a zero degree inside turning radius, while the extra narrow widths allow easy passage through standard office doorways. On fast-track construction projects, these small lifts are often allotted on a one-to-one basis with each technician having a unit for his sole use, counting as simply another 'tool' to increase productivity.

When micro scissor lifts first became popular in the mid-90s, the ideal unit offered a gross weight of under 1,000 kilograms, a length of around 1.6 metres and a width of 760 millimetres or less. This allowed each unit to move into very confined areas, travel in a standard 1 tonne capacity elevator (in fact the scissors were often

## MICRO SCISSOR LIFTS

Highly compact scissor lifts, under 2 metres long and 820 millimetres wide.

called “elevator lifts”) and be easily transportable. Increasingly tough regulations and stability criteria, however, have just about eliminated this specification for the 19 foot (5.791 metre) models, so you will notice that while the specifications of each manufacturer’s machine are similar, detailed specifications have drifted apart. In Europe, for example, some units are for indoor use only, while others offer limited or full outdoor approvals.

In the following table (Mast Lifts), we have also included six ‘micro’ platforms with mast-type lift mechanisms. These units provide an even shorter overall platform length, mostly under 1,400 millimetres, and a gross vehicle weight of well-under 1,000 kilograms, ideal for travelling in even the smallest hotel lift. Typical platform height is 4 to 4.5 metres, allowing work at up to 8 metres.

With the ‘bulking-up’ of the micro scissor, this type of product is increasingly taking over the “elevator” applications. Originally conceived in Japan, their popularity varies from region to region. They are most popular in Scandinavia, where thousands of them populate local rental fleets. In the UK, however, rental companies, and therefore users, have not yet taken advantage of these lifts as much as those users in the far north of Europe.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
HAULOTTE	Optimum 6	4.45 m	760 mm	270 kg	1,880 mm	1,340 kg	20 / 35
ITECO	IG4080	4.45 m	785 mm	265 kg	1,595 mm*	940 kg	16 / 20
UPRIGHT	MX15	4.50 m	760 mm	250 kg	1,600 mm*	1,343 kg	19 / 20
GENIE	GS-1532	4.60 m	810 mm	272 kg	1,820 mm	1,238 kg	16 / 17
SKYJACK	SJ111 3215	4.60 m	810 mm	272 kg	1,780 mm	1,089 kg	23 / 25
HAULOTTE	Optimum 8	5.76 m	760 mm	230 kg	1,880 mm	1,425 kg	23 / 32
JLG	1930ES	5.72 m	760 mm	230 kg	1,870 mm*	1,565 kg	22 / 28
ITECO	6080	5.77 m	785 mm	230 kg	1,595 mm*	1,380 kg	24 / 16
SKYJACK	SJ111 3219	5.80 m	810 mm	249 kg	1,780 mm	1,170 kg	25 / 27
MANITOU	78XE	5.75 m	810 mm	230 kg	1,890 mm	1,380 kg	17 / 22
SNORKEL	S1930	5.80 m	762 mm	227 kg	1,680 mm	1,336 kg	12 / 24
UPRIGHT	MX19	5.80 m	760 mm	227 kg	1,600 mm*	1,406 kg	19 / 18
GENIE	GS1932	5.80 m	810 mm	227 kg	1,820 mm	1,503 kg	16 / 23
IPM	78	5.90 m	790 mm	200 kg	1,430 mm*	1,048 kg	28 / 30
IPM	90	7.10 m	790 mm	200 kg	1,430 mm*	1,170 kg	32 / 35
HOLLAND LIFT	Z-45EL8	4,50 m	800 mm	220 kg	1,700 mm	1,060 kg	15 / 24

\* Length with ladder removed.

## MICRO MAST LIFTS

All the features of a micro scissor lift, but with a mast lift structure.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
GENIE	GR8	2.54 m	760 mm	227 kg	1,350 mm	658 kg	15 / 20
GENIE	GR12	3.58 m	760 mm	227 kg	1,350 mm	748 kg	18 / 20
UPRIGHT	TM12	3.83 m	760 mm	227 kg	1,360 mm	776 kg	18 / 25
GENIE	GR15	4.62 m	760 mm	159 kg	1,350 mm	975 kg	20 / 20
JLG	15DVL	4.67 m	750 mm	230 kg	1,360 mm	950 kg	N/A
JLG	20DVL	5.94 m	750 mm	160 kg	1,360 mm	950 kg	N/A

Below: The first ‘micro’ scissors entered the market during the early 90s but didn’t really begin to make their mark until the launch of the UpRight’s MX19 at the 1994 ARA show.



## Manitowoc drops scissors

MANITOWOC CRANE Group announced right at the end of last year plans to restructure its Manlift aerial work platform businesses to focus solely on the Toucan vertical mast products.

The move means the discontinuation of all US Manlift production at the company’s Shady Grove, Pennsylvania, facility and also the eradication of all scissor and boom lift product segments in Europe. The Liftlux facility in Dillingen, Germany will also be closed.

The restructuring has been moulded around plans to develop the Toucan vertical mast boom product range, which is produced in France and marketed under the Manlift brand and Toucan product name throughout Europe. The announcement brings an end to 24 years of participation in the powered access market by Grove, and is the end of the line for three original access companies, Selma-Manlift, Liftlux and TKD. ■

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**MINI SCISSOR LIFTS**

**LONGER THAN** micro scissor lifts with a length of around 2.5 metres to provide a full length platform of around 3.4 metres with decks extended, this product sector includes compact scissor lifts with two main chassis widths. The 'skinny' units for standard doorways, and the standard width of around 1.2 metres for double doors, with a variety of platform heights depending on the number of scissor stacks used. Most manufacturers make up their ranges from two chassis widths and three lift heights to offer up to five different models.

Below: Manitou targeted the 'skinny' chassis, 6 metre category with the launch of its 6.1 metre platform height 81XE, while it's smaller counterpart, the 78XE, is a 5.75 metre machine which competes in the micro scissor class.

**If it ain't broke...?**

AS WE STATED earlier in this article, the highly popular Micro scissors lifts are typically appreciated for their ultra compact length, light weight and extra narrow widths, which allow easy passage through standard doorways. So what has Genie Industries achieved by replacing its popular long-standing GS-1530 and GS-1930 Micro scissor lifts with two wider, heavier models, the GS-1532 and GS-1932? It seems that the main motive behind the changes is to meet EN280 with a full outdoor use rating. Other manufacturers have either certified their units for indoor use only (thus avoiding the need to factor in the effect of winds) or with a reduced rating for outdoor use such as one person only. The new models also include a load sensing system as per the requirement for all newly designed lifts.

Genie points out that the chassis and platform width on both new machines has not been changed from the original measurement of 762 millimetres (30 inches) and that it is the inclusion of wider tyres, that increases the width to 810 millimetres (31.89 inches). This, according to the company, gives the GS-1532 and GS-1932 manoeuvrability advantages over other 820 millimetre (32 inch) machines.

Other improvements on the updated models include larger hydraulic motors for increased gradeability, changes to the pothole bar linkages for better protection and higher, wider forklift

tubes for better access and stability when being transported by forklift. New lift attachment points have been added to the chassis and the steering system features an improved cylinder and tie-rod type design. All fittings below the hydraulic oil tank fill lines on both machines have been eliminated to reduce leak potential, while a new wiring harness system utilises sealed connectors and colour coded wires for reliability and easy maintenance.

Improvements aside, however, and the bottom line remains that although the changes point towards altogether more stable machines, they are heavier and wider than their predecessors. This then begs the question; Has the ability of the GS-1532 and GS-1932 to pass through standard doorways – an integral characteristic of this category of scissor lift – been jeopardised? Only time, and of course sales, will tell! ■



**SKINNY MINI 6 METRE PLATFORM HEIGHT SCISSOR LIFTS**

Scissor lifts mounted on a 'skinny' chassis, measuring under 820 millimetres wide, allowing easy passage through a standard doorway.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
ITECO	IG 6084	6.05 m	890 mm	365 kg	2,270 mm	1550 kg	31 / 28
SNORKEL	S2033	6.10 m	840 mm	363 kg	2,310 mm	1,701 kg	20 / NA
JLG	2030ES	6.10 m	760 mm	363 kg	2,300 mm	1,700 kg	30 / 30
GENIE	GS-2032	6.10 m	810 mm	363 kg	2,440 mm	1,589 kg	30 / 26
SKYJACK	3220	6.10 m	810 mm	408 kg	2,320 mm	1,592 kg	33 / N/A
MANITOU	81XE	6.10 m	810 mm	340 kg	2,300 mm	1,700 kg	N/A
HAULOTTE	Cmpt 8	6.18 m	810 mm	350 kg	2,420 mm	1,730 kg	35 / 40
UPRIGHT	X20N	6.10 m	820 mm	340 kg	2,350 mm	1,736 kg	30 / 30
HOLLAND LIFT	Y-64EL8	6.40 m	850 mm	350 kg	2,800 mm	1,860 kg	36 / 33

**FULL WIDTH 6 METRE PLATFORM HEIGHT MINI SCISSOR LIFTS**

6 metre working height scissor lifts mounted on 1.2 metre wide chassis.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
UPRIGHT	X20W	6.10 m	1,220 mm	454 kg	2,350 mm	1,938 kg	40 / 30
SKYJACK	4620	6.10 m	1,160 mm	499 kg	2,320 mm	1,678 kg	36 / N/A
GENIE	GS-2046	6.40 m	1,168 mm	554 kg	2,438.4 mm	1,937 kg	30 / 28
MANITOU	80 XEL	6.00 m	1,200 mm	570 kg	2,700 mm	2,200 kg	N/A
HOLLAND LIFT	Y-64EL14	6.40 m	1,420 mm	300 kg	2,800 mm	2,380 kg	38 / 30

# ELECTRIC SCISSORS

**UNTIL ONLY** two years ago, the highest single doorway scissor lift was the original 20 foot (6 metre) unit. Today, most manufacturers offer 26 foot (8 metre) units, including the first 760 millimetre wide unit from JLG.

**THESE MODELS** offer a lot more space on the platform than the 'skinny' units and will still easily go through double doors and into many aisle ways. With a nominal width of 1.2 metres or less, these standard width units can still use the descent interrupt method of scissor arm guarding according to EN280.

**THIS PRODUCT** started as a stretched 8 metre unit to become a very popular segment of the mini scissor category. With compact dimensions and high reach capabilities, they are ideal for light-duty, indoor work.

## MID SIZED ELECTRIC SCISSOR LIFTS

**MANY OF** these units have been developed from the 'mini' scissor range with greater width and more ground clearance (this has become critical as the 'micro' and 'mini' scissor products have developed in the past nine years into pure "slab" machines, i.e., they require a hard, smooth and level floor on which to operate). They generally are under 1.7 metres wide to allow passage through standard double doors. They are also able to cope with "off slab" ground conditions to allow work around the outside of buildings as well as internally.

## SKINNY MINI 8 METRE PLATFORM HEIGHT SCISSOR LIFTS

8 metre working height, single doorway scissor lifts.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
JLG	2630ES	7.77 m	760 mm	227 kg	2,300 mm	2,155 kg	40 / 40
ITECO	IG 8089	7.80 m	890 mm	365 kg	2,270 mm	1,775 kg	48 / 35
SKYJACK	3226	7.90 m	810 mm	227 kg	2,320 mm	1,876 kg	56 / NA
GENIE	GS-2632	7.92 m	813 mm	227 kg	2,440 mm	2,504 kg	37 / 24
UPRIGHT	X26 Ult-N	7.93 m	820 mm	340 kg	2,350 mm	2,358 kg	42 / 40
HAULOTTE	Cmpt 10 N	8.0 m	810 mm	230 kg	2,420 mm	2,150 kg	45 / 45

## STANDARD WIDTH 8 METRE PLATFORM HEIGHT MINI SCISSOR LIFTS

26 foot (8 metre) scissor lifts with average widths of 1.2 metres.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
HAULOTTE	Cmpt 8W	6.27 m	1,200 mm	450 kg	2,310 mm	1,950 kg	30 / 29
SNORKEL	S2545	7.60 m	1,140 mm	385.6 kg	2,410 mm	2,132 kg	25 / N/A
SKYJACK	46S26	7.90 m	1,160 mm	386 kg	2,320 mm	2,241 kg	58 / N/A
GENIE	GS-2646	7.92 m	1,168 mm	454 kg	2,438.4 mm	2,055 kg	30 / 24
JLG	2646ES	7.92 m	1,170 mm	454 kg	2,500 mm	2,163 kg	40 / 40
UPRIGHT	X26N	7.93 m	1,220 mm	454 kg	2,350 mm	2,153 kg	45 / 40
HAULOTTE	Cmpt 10	8.14 m	1,200 mm	450 kg	2,420 mm	2,330 kg	40 / 45
MANITOU	100 XEL	8.20 m	1,200 mm	450 kg	2,700 mm	2,420 kg	N/A

## 10 METRE PLATFORM HEIGHT MINI SCISSOR LIFTS

1.2 metre wide chassis scissors.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
JLG	3246ES	9.68 m	1,170 mm	454 kg	2,500 mm	2,168 kg	50 / 50
SKYJACK	4832	9.70 m	1,210 mm	318 kg	2,320 mm	2,676 kg	64 / N/A
UPRIGHT	X32N	9.75 m	1,220 mm	340 kg	2,350 mm	2,486 kg	65 / 40
GENIE	GS-3246	9.75 m	1,170 mm	318 kg	2,440 mm	2,800 kg	N/A
HAULOTTE	Cmpt 12	10.0 m	1,200 mm	300 kg	2,420 mm	2,630 kg	45 / 50
MANITOU	120 XEL	10.2 m	1,200 mm	320 kg	2,700 mm	2,760 kg	N/A

## MID SIZED ELECTRIC SCISSOR LIFTS

Under 2.95 metres long / under 1.8 metres wide.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED U/D
ITECO	IG 8150	7.70 m	1,500 mm	465 kg	2,270 mm	1,935 kg	54 / 32
GENIE	GS-2668	7.90 m	1,730 mm	567 kg	2,670 mm	2,986 kg	30 / 35
SKYJACK	6826	7.90 m	1,720 mm	544 kg	2,520 mm	2,440 kg	65 / N/A
SKYJACK	6826E	7.90 m	1,730 mm	544 kg	2,520 mm	2,658 kg	59 / N/A
ITECO	IG 8130	7.93 m	1,310 mm	465 kg	2,270 mm	2,100 kg	52 / 32
HAULOTTE	Cpt 10RTE	8.20 m	1,800 mm	565 kg	2,650 mm	3,330 kg	35 / 35
HOLLAND LIFT	Y-83EL12	8.30 m	1,160 mm	400 kg	2,950 mm	2,400 kg	38 / 26
HOLLAND LIFT	Y-83EL16	8.30 m	1,660 mm	400 kg	2,950 mm	2,830 kg	40 / 24
HOLLAND LIFT	Y-64EL8	8.40 m	850 mm	350 kg	2,800 mm	1,860 kg	36 / 33
HOLLAND LIFT	Y-64EL14	8.40 m	1,420 mm	300 kg	2,800 mm	2,380 kg	38 / 30
MANITOU	110 ELX	9.10 m	1,500 mm	450 kg	2,800 mm	3,078 kg	N/A
SKYJACK	6832E	9.70 m	1,730 mm	454 kg	2,520 mm	2,794 kg	60 / N/A
SKYJACK	6832	9.70 m	1,720 mm	386 kg	2,520 mm	2,576 kg	60 / N/A
ITECO	IG 10130	9.92 m	1,310 mm	465 kg	2,270 mm	2,580 kg	70 / 38
GENIE	GS-3268	9.75 m	1,730 mm	454 kg	2,670 mm	3,425 kg	50 / 37
HOLLAND LIFT	X-105EL12	10.50 m	1,190 mm	500 kg	3,500 mm	4,620 kg	45 / 36

## LARGE ELECTRIC SCISSOR LIFTS

IN THE UK and Ireland, large electric scissors are yet to gain a strong foothold partly due to lower rise commercial developments and the fact that contractors are happy to allow the use of diesel powered units even for indoor applications. In Germany and The Netherlands, however, these machines' high capacities, low noise levels and fumeless operation make them an extremely popular choice of access equipment. It is not surprising then that Germany and The Netherlands-based manufacturers, such as Holland Lift, have dominated the large electric scissor sector. The company is now planning to enter the UK and Ireland markets later in the year.

The UK sector has, however, been growing steadily in recent years, where Russon Access has carved out a niche with the Liftlux range of large scissors regularly produced up to 21 metres platform height. Due to a recent announcement to cease production of Manlift/Liftlux scissors, however, we have removed them from this study.



## LARGE ELECTRIC SCISSOR LIFTS

Mounted on chassis over 2.95 metres long.

MANUFACTURER	MODEL	PLATFORM HEIGHT	O/A WIDTH	PLATFORM CAPACITY	MINIMUM LENGTH	GVW	SPEED UP/DN
SKYJACK	8831E	9.4 m	2,210 mm	1,134 kg	3,490 mm	4,797 kg	62 / N/A
UPRIGHT	LX31SD	9.45 m	2,290 mm	907 kg	4,000 mm	4,586 kg	50 / 52
JLG	3369LE	10.06 m	1,750 mm	450 kg	3,100 mm	4,427 kg	38 / 42
HAULOTTE	Cpt 12RTE	10.14 m	1,800 mm	450 kg	2,650 mm	3,830 kg	35 / 35
HOLLAND LIFT	X-105EL12	10.50 m	1,190 mm	500 kg	3,500 mm	4,620 kg	45 / 36
HOLLAND LIFT	X-105EL16	10.50 m	1,560 mm	500 kg	3,500 mm	4,820 kg	46 / 36
ITECO	PE 110 EX	11.20 m	1,920 mm	320 kg	3,860 mm	4,200 kg	55 / 60
JLG	4069LE	12.19 m	1,750 mm	360 kg	3,100 mm	4,863 kg	54 / 50
UPRIGHT	LX41SD	12.34 m	2,290 mm	680 kg	4,000 mm	5,298 kg	57 / 60
SKYJACK	8841E	12.50 m	2,210 mm	680 kg	3,490 mm	5,520 kg	67 / N/A
ITECO	PE 120 EX	12.80 m	2,200 mm	500 kg	4,130 mm	5,150 kg	70 / 60
ITECO	PD 120 EX	12.80 m	2,230 mm	500 kg	4,360 mm	5,150 kg	40 / 60
MANLIFT	S130-20E	13.00 m	2,000 mm	500 kg	3,550 mm	5,550 kg	60 / 65
HOLLAND LIFT	Q-135EL24	13.50 m	2,390 mm	500 kg	4,640 mm	7,380 kg	65 / 42
HOLLAND LIFT	Q-135EL18	13.50 m	1,800 mm	500 kg	4,640 mm	7,100 kg	63 / 44

Left: JLG's five-strong ES Series narrow electric drive scissor lift range includes the Model 2630ES, which, according to the company, is the world's first 760 millimetre wide platform capable of offering up to 7.92 metres platform height.

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