

BUILT FOR Versatility

Combine a small footprint with rough terrain capabilities and there is no environment that the **Snorkel S2770RT** can't handle. This highly versatile compact rough terrain scissor lift delivers 4-wheel drive performance and can fit in confined spaces. The S2770RT boasts an overall width of 1.8m (5 ft. 10 in.) with a maximum working height of 10.23m (33 ft.).



Snorkel S2770RT

COMPACT DIMENSIONS,
ALL-TERRAIN CAPABILITIES

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Snorkel™

Conexpo a victim of COVID-19

C&A

Conexpo 2020

This year's Conexpo show in Las Vegas was due to be the largest for many years, however global events outside of its control had a major impact. The result was still a busy show with several record breaking product launches but some manufacturers were no shows, while attendance - slow on day one but good on day two and three - tailed off on the Friday, while pressure from exhibitors and others caused the final day to be cancelled.

In the days and weeks before the show several overseas manufacturers were either blocked from sending staff, as in case of China, while others implemented staff travel bans. In one very unusual case Volvo Construction pulled out at the last moment but recognised that it could not break down its completed stand and hired local contractors to man it on the company's behalf.

The atmosphere was uniquely unusual, with much of the talk focused on the health crisis rather than the equipment. As the week progressed there was increasing concern about personal health and most people's thoughts turned towards getting home, especially as the US began imposing border controls and airlines began cancelling flights. Rumours abounded of this manufacturer or that having decided to send its staff home early and abandon their stands. In most cases

this was denied but the sharp reduction of stand personnel on Friday suggested otherwise.

This sad state of affairs had a major impact on what would have been a good show. Yes, while many exhibits were rewarmed North American versions of models launched at Bauma last year, there were several truly outstanding new products. However with the usual crane and access 'Gold Lot' site being developed into a resort, the new Festival Grounds, alongside the Circus Circus parking lot was very remote from the main conference centre. The area was distinctly 'makeshift' and unfinished, and at times was a 30 minute shuttle bus ride or brisk 35 minute walk away from the main entrance. Facilities on the new site such as catering were very poor and exorbitant, while any free wifi was blocked - both in sharp contrast to the facilities in the main halls.



The organisers tried to put on a brave face saying that registrations for the show exceeded 130,000 - an increase on 2017 - and that at the end of the show, cancellations from international attendees totalled less than one percent. However despite a couple of relatively busy days,

attendance on Thursday afternoon and Friday was very, very quiet. As with our usual show reviews we will highlight the major launches and stand out products, followed by an extensive pictorial roundup of the event.





The 210ft Snorkel 2100SJ

Snorkel 'best in show'

The Snorkel stand probably had too many new models and innovations for most visitors to take in. Star of the show was without doubt the all-new, 210ft 2100SJ 'mega boom'. Not only is it the world's largest self-propelled lift but it incorporates several truly innovative new features that made it so much more than just about its size. The basic specs are impressive - 65.8 metres working height, 30.4 metres outreach and an enormous working envelope said to cover 155,176 cubic metres, thanks to a 9.1 metre telescopic jib with 128 degrees of articulation.

However there are several patent-pending innovations. While the heavy-duty chassis initially looks similar to the X-type chassis on other large booms it has a mechanism that enables the wheels to drive the chassis legs into position while the lift is static without causing tyre scrub at the press of single toggle switch. Not only does it extend tyre life and reduce ground disturbance, but also provides a much smoother extension. For such as big machine

- it weighs 36.3 tonnes - the 2100SJ is highly manoeuvrable and includes a fifth 'lateral' steering mode where all wheels turn 90 degrees allowing it to move sideways, this in addition to the usual front, rear, crab, and four wheel co-ordinated steer modes.

Designed to comply with all global standards including ANSI A92.20, the 2100SJ has an overall width of 2.5 metres and overall transport length of 14.9 metres with jib stowed. For safer loading and unloading the platform has a removeable RF controller for wireless or tethered operation. Both upper and lower control panels include a seven inch colour LED screen with a new multi lingual Snorkel user interface featuring



Snorkel 2100SJ remote control enclosure



The 2100SJ drives its chassis into position without causing tyre scrub



Snorkel 2100SJ second controller which can be folded 90 degrees to store out of the way



Snorkel's 660 SJ All Terrain boom lift

operator communications such as the pre-start procedure in a visual checklist format and service reminders, while onboard diagnostics means that no external devices are needed to troubleshoot problems.

The boom is said to have 40 percent fewer moving parts and the dual capacity working envelope is kept really simple, with the jib retracted platform capacity is 454kg unrestricted, switching to 300kg as soon as it is telescoped. In the platform in addition to the main control box, there is a secondary set of mini 'inching' controls on the opposite side facing the work, which include all machine functions other than drive allowing the operator to carry out fine positioning of the platform. It simply folds away when not in use and both control panels include Snorkel Guard entrapment systems.

The boom obviously impressed with three orders placed at the show with the first sold to Canadian company Mortier en Trémie ABL, while UK-based Hire Safe Solutions ordered the first two units outside of North America.

High capacity scissors

Snorkel also launched a new high-capacity, large deck scissor range with working heights from 11.8 metres to 17.9 metres. The mid size model, the 43ft S9043RT has a platform capacity of 680kg, while a high capacity version - the S9043RT-HC - can handle 1,587kg. At the bottom end the 31ft S9031RT-HC offers a maximum platform capacity of 1,814kg.

Snorkel also unveiled a new 'All Terrain' package for its 60/66ft 600S/660J boom lifts, which uses four independent rubber tracks, when low ground pressure is required. Finally the company also rolled out its new 30ft S3970RTE compact lithium ion Rough Terrain scissor lift which employs two large two lithium ion batteries as standard, said to be sufficient for a typical eight hour shift, but there is space to add a third or fourth battery for longer time between recharging. The machines management system automatically senses how many batteries are installed. The line will also include the 27ft S2770RTE and 33ft S3370RTE with full production due to begin in October.



Snorkel's new 73ft 9073RT HC scissor lift, one of a three model range that includes a 33ft model with 1,814kg platform capacity



PANORAMIC
40.17



ROTO
50.35

ALL NEW
CONSTRUCTION
RANGE

REACH NEW HEIGHTS
WITH THE ALL NEW
ROTO AND PANORAMIC RANGE

The PANORAMIC and ROTO Range design has inspired the construction market over the years, and is now introducing a new generation of wider cabs, improved cab comfort levels and a multitude of new features. The ROTO range has changed the movement method for telehandlers by introducing the rotating turret system that can rotate 360 degrees without having to reposition the machine. Merlo have skillfully evolved during time with exclusive technological innovations and an unparalleled level of performance, safety and efficiency.



Genie's main launch was the 80ft S-80 J, the second model in its all new 'J' series of lighter weight telescopic boom lifts with jib

The show also provided an opportunity to see the production version of Faresin's compact lithium ion electric telehandler, branded as the Snorkel SR5719E. It offers a lift capacity of 2,600kg and maximum lift height of 5.79 metres and claims a 60 percent reduction in operating costs over the diesel equivalent while reducing noise and fumes.

Genie S-80 J

Genie's main launch was the 80ft S-80 J, the second model in its all new 'J' series of lighter weight telescopic boom lifts with jib. The S-80J is essentially a larger version of the new S-60 J which was unveiled at the ARA. The two models will run alongside its existing heavy duty XC models. The S-80 J has up to 16.8 metres of outreach and an unrestricted platform capacity of 300kg. It includes a 1.8 metre jib, four wheel drive and oscillating axles. Weighing just 10.4 tonnes it is light enough to be fitted with Genie's four track TraX crawler package making it the first boom model of this size to offer a four track option. Power comes from a Tier 4F/Stage V, Kubota turbo diesel and as a global product meets all major international standards.

Ruthmann takes Reachmaster

Major news at the show was Ruthmann's acquisition of US

equipment distributor ReachMaster from owner Ebbe Christensen. Florida-based Ruthmann North America will operate as Ruthmann ReachMaster North America based at ReachMaster's new facility in the Porter suburb of Houston.

JLG innovates

JLG also showed several new products including a self-levelling boom based on a concept machine seen at Conexpo 2017, a new 23 metre telehandler and a 20 metre truck mounted concept machine. The new 67ft 670SJ self-levelling boom lift offers up to 17.4 metres of outreach and a maximum capacity of 340kg, with an unrestricted capacity of 250kg. It offers several modes of operation, including a normal travel mode where one 'axle' oscillates and the other remains fixed like a regular boom lift, with an automatic self-level control when in position on a slope of up to 10 degrees, and dynamic auto levelling which keeps the machine level when travelling over uneven terrain. An additional shipping mode lowers suspension, almost to deck level for transport. First shipments are expected towards the end of the year.

The new 1075 telehandler - designed for the North American market - has 22.8 metre lift height, a maximum capacity of 4,500kg and



JLG's self levelling concept first seen at Conexpo 2017



JLG launched the 22.9m, 4,530kg capacity 1075 telehandler

a maximum forward reach of 18.3 metres. The company also unveiled the XT 600AJ, a 20 metre working height truck mounted concept lift using what appears to be a Hinowa superstructure on a light truck chassis.

World record Magni

Magni once again surprised the market with another record breaking 360 degree telehandler. Last Conexpo it launched the 46 metre RTH 6.46, this show it launched the RTH 6.51 SH with a lift height of just under 51 metres, a 6,000kg maximum capacity and a forward reach of 34.4 metres. Overall weight is similar to the 46 metre machine at 30.25 tonnes. It is based on the 46 but uses a longer seven section telescopic boom and sophisticated working envelope and overload management system.



Magni unveiled the world's largest 360 degree telehandler - the RTH 6.51 SH - with a lift height of 51 metres

60m Grove RT

Amongst several 'new' products Grove unveiled its 108.8 tonne GRT8120 Grove Rough Terrain crane - the latest model in the company's



The Ruthmann/Reachmaster deal is concluded (L-R) Rolf Kulawik, Ebbe Christensen and Uwe Strotmann



JLG's XT600AJ truck mounted platform



Grove GRT8120 with 60 metre main boom



Liebherr's new 120 tonne LTM 1120-4.1



Link-Belt demonstrates its new Smart Fly extension



Load King showed the 80 ton (72.5 tonne) Stinger 80-160 truck crane

GRT range of RT cranes -featuring a seven section 60 metre main boom the longest available on an RT of this size, topping Tadano's 120 ton model by four metres and some models by almost 10 metres. A choice of manual or hydraulic offset extensions take the maximum tip height to almost 81 metres. Based largely on the GRT8100, it features the company's MAXbase variable outrigger set-up, and a new wider cab with 20 degrees of tilt. The product is aimed at those who want the boom of a 150 ton RT with the ease of transport of a 120 ton model. It includes smart sensing outrigger cylinders in lieu of string pots and a wireless, handheld rigging remote for quick and easy set up.

Tadano and Demag

Tadano and Demag cranes were shown side by side for the first time at a big international show. The largest unit on display was the upgraded 650 tonne Demag CC3800-1 crawler, while the new 145 tonne Tadano Mantis GTC-1600 telescopic crawler crane created much interest with its six section 61 metre main boom, topped by a 10.3 to 18 metre bi-fold swingaway extension with 0, 20, and 40 degree

offsets, which can be extended with two seven metre inserts to 32 metres for a maximum tip height of 93 metres. An optional 3.6 metre heavy lift jib with 20 and 40 degree offsets is also available.

The company also announced, but did not show, the new Tadano GTC-1800EX telescopic crawler, a 180 tonne Demag designed telescopic crawler crane. Shown as a scale model at Bauma it, will still be built at the Demag plant in Germany and should be available by the end of the year. Interesting point is that at this stage it will be a Tadano machine - the company says that this is due to the fact that the Tadano brand is associated with tele crawlers, while Demag crawlers have always been lattice boom models. It will feature a 60 metre main boom with extensions of up to 23 metres and can operate on slopes of up to four degrees. The tracks extend from 3.5 to six metres, with infinitely variable and asymmetrical operating width possible. The actual configuration is fed into the Demag IC-1 Plus control system to calculate a load chart. Finally the company's new US market Rough Terrains stood out, in particular with the GR-1000XLL-4 with its optional dual position counterweight.



This is the first time a Terex Franna crane has been exhibited in the USA with the AT22

Liebherr

Liebherr's main new product launch was the new 120 tonne four axle All Terrain crane - the LTM 1120-4.1 - with a seven section 66 metre main boom, the longest on a four axle mobile crane. It can manage a nine tonne load on the fully extended boom or 12.1 tonnes on a 60 metre boom, some 18 percent better than the 100 tonne LTM 1100-4.1.

The optional VarioBallast system adds a further 10 tonnes of counterweight to the standard 20 tonnes, while the counterweight radius adjusts hydraulically from 3.83 to 4.77 metres. The company's

Variobase adjustable outrigger set up and monitoring system is standard. Deliveries will begin at the end of this year.

Link-Belt 'Smart Fly'

Link-Belt's new Smart Fly, system to simplify the installation of its swingaway extensions was impressive and is available on its new 120 ton/110tonne 120RT. Also on show was the new TCC 800 telescopic crawler.

Load King

The company acquired the Terex US truck crane business last year and showed the first results of its purchase at Conexpo in the form of the 80 ton (72.5 tonne) Stinger 80-160 truck crane on a commercial chassis, with six section 48 metre formed boom, plus 17.6 metre extension for a 69 metre maximum tip height.

Franna back

Terex Cranes used Conexpo to reintroduce the Franna brand for its Australian pick & carry crane and to launch it internationally.



Demag CC3800-1 crawler crane



Tadano GTC-1600

CMC

CMC dealer All Access Equipment launched the manufacturers new F series of spider lifts, sadly no one from the factory was able to attend.



CMC 60F

XCMG truck crane

Another surprisingly good product was the locally mounted 40 ton (36.2 tonne) XCMG XCT40 truck crane with 43.3 metre main boom. The machine was very well finished and built and is said to carry a very attractive price point.

Mini pick & carry cranes

A surprising exhibit on the Spyder stand was a three model line up of ultra-compact pedestrian controlled pick & carry cranes - the PC094, PC194 and PC295 - built by parent company Smiley Lifting Solutions.



The three model Spydercrane line up of ultra-compact pedestrian pick & carry cranes built by parent company Smiley Lifting Solutions

Designed to pass through single doors, they include fold away stabilisers for certain lifting duties.

The units are still in development and will be marketed internationally.

Here are some of the show highlights in pictures over the next few pages



Wacker Neuson TH627



Trail King stand



Pettibone Extendo 1056



Broderson's updated 18.1 tonne capacity cab-down RT400A



Hydro Mobile mastclimber



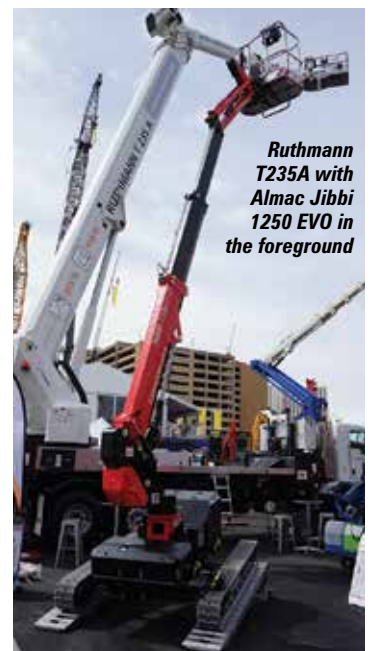
Palfinger PSC 6229



Caterpillar TL1255D telehandler with secondary steering



AMCS anticollision software for tower cranes and mobile cranes



Ruthmann T235A with Almac Jibbi 1250 EVO in the foreground



Potain MRH 175



IMT 32-222 series loader crane



Skyjack president Ken McDougall at the press conference

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Carlton Calfee (L) and Wayne Morris of XCMG North America distributor Boomtrux based in Tampa, Florida



An immaculately restored 1923 Best Tractor



Sany's SCA1000A crawler



Mike Oklevitch (L) and Scott Peters of JLG with the new Mule MZ100 lift attachment



The new combined sales team L-R Tony Trainer and Tom McKendree of Reachmaster with Richard Carr and Tom Goyer of Ruthmann all now Ruthmann ReachMaster North America under the leadership of Ebbe Christensen



XCMG showed this XCR60L5-U RT crane



Cometto ECU 1000



Jaso's 18 tonne J265PA luffer sold to Vancouver, Canada based Allied Crane



Palfinger PK 40002 EH



Elliot 40142 truck crane



Grove TMS 500-2 truck crane



Lift Wise folding man basket



Pettibone's new range of scissors - 4046E, 2632E and 1932E



JMG's full electric MC350 which claims an eight hour continuous operation time



Zoomlion ZS0607DC electric scissor with 7.9m working height, 230kg capacity and weighing 1,465kg



CoxGomy! Mamtech 3000 Series with 300kg capacity and maximum operating height of 235m



Genie stand



JLG's next generation scissor control box

RIGHT-SIZED OPTIONS FOR EVERY JOBSITE

J ESSENTIAL PERFORMANCE



Working at Height



XC XTRA CAPACITY



Heavy-Lifting Applications



FE FUEL ELECTRIC



Work Anywhere Hybrid



Genie
A TEREX BRAND

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Outrigger Pads stand



Dica outrigger pad stand



Kobelco 350 tonne CK3300G-2 with Super Heavy Lift attachment



Winlet 2200, 1730, 1265 and 770 glass lifters



Faymonville trailers



Wolffkran 166B luffer



JMG's Greenlifter



Struxure composite laminated mat on the Dica stand



Stellar loader cranes



Goman Lift had equipment but no staff on its stand



Marooka MST-1000/DI tracked dumper complete with Terex insulated boom



Gehl's new compact RS 4-14 - a branded version of the Manitou MT 420



Mule MZ100 on a Skytrak telehandler



Arcomet A 50 Eco



Sunward scissors



Torquer can rotate loads remotely without using taglines



MEC's Xtra Deck



XCMG was showing a few scissors, articulated booms and cranes



Lift-Wise LM4000 pedestrian lift has a maximum capacity of 4,000lbs



Dingli stand with booms and scissors



Demag AC220-5



Conexpo was very empty on the last morning



Snorkel's new 'All Terrain' package for the 600S and 600SJ booms features four independent rubber tracks



Skytrak 3013



Sinoboom's 10.3m working height, 3.3m outreach and 200kg capacity GTTZ 10EJ mast boom



Bailey Crane Brandon 6E



MEC's pull down Xtra deck on its Micro13-XD and Micro19-XD scissors gives an extra 510mm height



Liebherr LR 1300.1 SX



Jekko JF545 tracked loader crane



Stros stand



Manitowoc MLC150-1



Teupen Leo 105AJ plus



Tadano GR1000XLL-4



Snorkel's 23.3m S9070 RT-HC with 907kg capacity



Grove GMK 5250XL-1



Link-Belt 120RT with 79.8 max tip height



Alimak's new Scando 650 FC-S with increased capacity and space