

ANSI A92

What the
standards
changes mean
for you





ANSI A92: What the standards changes mean for you

The introduction of the new ANSI A92 suite of standards in the United States (and CSA B354 in Canada) require machine owners and operators to be aware of some important changes. This white paper outlines those key changes and highlights how Niftylift machines comply with these new standards.

Why are the new standards being introduced?

The existing American access platform design and use standards are being replaced by a new suite of ANSI A92 standards that have been updated to more closely align with recently published requirements in other major markets such as Europe and Australia, and therefore, this alignment achieves a higher level of standardization globally and greater machine safety.

The previous American access platform equipment standards were based on the type of machine, such as A92.5 for Boom Supported Platforms. In Europe, the Machinery Directive

legislation sets out the safety requirements that must be met, and the standard EN 280:2013+A1:2015 provides specific guidance for the design, test and manufacture of aerial work platforms. Standard B354.6:2017 defines the requirements for machines in Canada, whereas standard AS1418.10 defines Australia's requirements. The International Organization for Standardization design standard ISO16368 provides machine design guidance for countries that do not have their own national standards.

When do the new standards come into force?

The ANSI A92 suite of standards were originally published in December 2018 and manufacturers originally had one year to implement the changes. The adoption date of December 2019 was postponed due to issues regarding content of some clauses within the suite of standards.

The suite of standards has now been amended and re-published as of May 2020 with an

effectivity date of **June 01st 2020**. All machines manufactured after this date must comply with the new requirements. The new standards are not back dated to existing machinery and do not affect machines already on the market.

What's changing?

Introduction of the new ANSI A92 suite of standards will mean changes, many of which apply to Mobile Elevating Work Platforms (previously known as Aerial Work Platforms):

Terminology Changes

- The term Aerial Work Platform (AWP) is replaced by Mobile Elevating Work Platform (MEWP).
- ANSI A92.5 is replaced by ANSI A92.20 (CSA B354.6 in Canada) covering new machine design requirements.

In addition to the change in terminology, MEWPs will be classified into Groups A and B with Types 1, 2 and 3. How machines are classified are determined by how they are driven and used:

- **Group A** refers to platforms that are directly over the equipment's chassis and are limited to vertical motions only.
- **Group B** refers to platforms that have a variety of functions and are not limited to staying over the machine's chassis.
- **Type 1** are machines that can only be driven in a stowed position.
- **Type 2** are machines that can be driven when elevated and the machine's drive controls are on the chassis.
- **Type 3** are machines that can be driven when elevated and the machine's drive controls are in the platform.

Niftylift's Self-Drive & Track Drive ranges are examples of Group B, Type 1 MEWPs.

Niftylift's Height Rider range are examples of Group B, Type 3 MEWPs.

The chart below identifies the changes to the Niftylift product range as a result of the introduction of A92.20. It also identifies how each model is categorized by its group and type.

Type	USA Name	Was				Now				Load Sensing
		Standard	Group	Type	SWL	Standard	Group	Type	SWL	
Towable MEWP	TM34M MK1B	A92.5	Boom Supported Platforms	500 lbs	A92.2	Group B	Type 1	500 lbs	N/A	
	TM34H MK1B			500 lbs				500 lbs	N/A	
	TM34T MK1B			500 lbs				440 lbs	N/A	
	TM42T MK1B			500 lbs				500 lbs	N/A	
	TM50T MK1B			500 lbs				440 lbs	N/A	
	TM64 MK2B			500 lbs				500 lbs	Load sensing Fitted	
Self Drive MEWP	SD34T 4x4 MK1B			500 lbs	A92.20	Group B	Type 1	500 lbs	Load sensing Fitted	
	SD50T 4x4 MK1B			500 lbs				500 lbs	Load sensing Fitted	
	SD64T 4x4x4 MK1B			500 lbs				500 lbs	Load sensing Fitted	
Self Propelled MEWP	SP34N 2x4 MK2			A92.20	Group B	Type 3	440 lbs	440 lbs	Load sensing Fitted	
	SP34L 2x4 MK2						440 lbs	440 lbs	Load sensing Fitted	
	SP34 4X4 MK1B						500 lbs	500 lbs	Load sensing Fitted	
	SP45N 2x4 MK4						500 lbs	500 lbs	Load sensing Fitted	
	SP45 4x4 MK3						500 lbs	500 lbs	Load sensing Fitted	
	SP50N 2x4 MK4						500 lbs	500 lbs	Load sensing Fitted	
	SP50 4X4 MK3						500 lbs	500 lbs	Load sensing Fitted	
	SP64 2x4 MK2						550 lbs	550 lbs	Load sensing Fitted	
	SP64 4x4 MK2						500 lbs	500 lbs	Load sensing Fitted	
	SP85 4x4 MK2	620 lbs	620 lbs				Load sensing Fitted			
TrackDrive MEWP	TD34TN MK1B	500 lbs	A92.20	Group B	Type 1	500 lbs	Load sensing Fitted			
	TD34T MK1B	500 lbs				500 lbs	N/A(Enhanced Stability)			
	TD42T MK1B	500 lbs				500 lbs	Load sensing Fitted			

N.B. Niftylift Towable models, TM34's & TM42's & TM50's are all certified in accordance with the A92.2 Design Standard and are not fitted with 'Load Sensing'.



What are the key features you need to know of the new ANSI A92.20 (machine design) standards, and how do Niftylift machines comply?

The A92.20 standards require more vigilance to ensure the safety of the operator and those around them. To ensure greater machine standardization, the standards include the following changes to the equipment:

Load Sensing

- MEWPs must monitor the total load in the platform (from persons, tools, equipment, and materials) and prevent machine movement if the platform is overloaded.

The Niftylift solution? All machine movement is prevented, an alarm will sound, and a visual warning will show at the control positions until the overload is removed.

Tires

- Changing stability requirements mean pneumatic tires are not feasible on self-propelled machines due to changing stability requirements.

The Niftylift solution? Niftylift machines are already compliant and customers should see no change to tires.

Stability Calculation & Testing Requirements

- Tougher stability calculation and testing requirements may lead to a reduction in platform load capacity or an increase in machine mass for some machines.

The Niftylift solution? Niftylift's machine mass and platform capacities now fully align with the European product variant of the machine, meaning in the main, they are already compliant with the new ANSI standard.

Sustained Involuntary Operation Prevention

- The machine must prevent the sustained involuntary operation of hand operated controls in the platform.

The Niftylift solution? Niftylift have used inherently safe design to ensure the controls cannot be held active if an operator is forced over the controls.

As an additional safety feature, Niftylift also offers its active 'Sustained Involuntary Operation Prevention System' (**SIOPS®**).

Chassis tilt sensor

- An inclination sensor monitors the MEWP's angle and the control system ensures traveling movements are not possible beyond the rated angle.

The Niftylift solution? Niftylift have installed this feature for **over thirty years** on Group B, Type 3 models, and Niftylift customers will see no change as a result of this standard.

Entrance Gates & Toeguards

- The use of flexible and chain entrance gates are no longer prohibited, while toeguards are now a requirement on all work platforms.

The Niftylift solution? Niftylift have never used flexible or chain entrance gates, and Niftylift's platforms are already designed with toeguards, so customers won't see any changes as a result of these standards.

Wind Force Requirements

- MEWPs must be clearly marked if they are rated for outdoor or indoor use - this clearly shows users how stable the machine will be in windy conditions. It is possible that machines may need reduced platform capacities or the introduction of extra weight to increase stability.

The Niftylift solution? Niftylift machines indicate the maximum allowable wind speed on the machine plate. The platform capacity label also includes this information.

How will the new ANSI standards affect people operating in the sector?

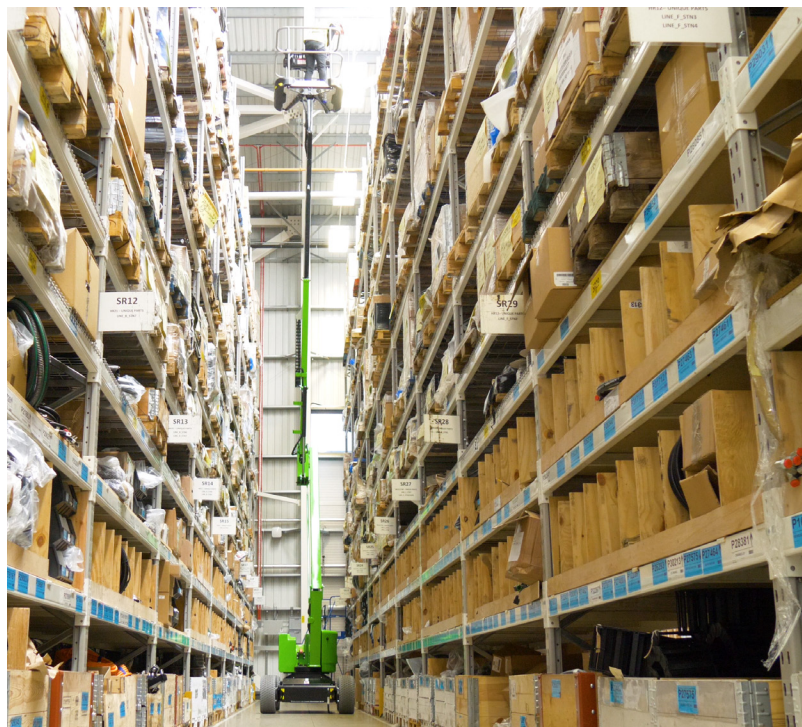
In addition to the machine design (A92.20) requirements, as noted above, the ANSI A92 suite of standards also include new safe use (A92.22) and training (A92.24) requirements.

Safe use planning and training are prominent features throughout the new standards, and

the introduction of stricter requirements in these areas, particularly training materials and qualifications, will only strengthen safety across the industry. Full supervisor training for those overseeing MEWP operators is an important new requirement, however it's not limited to supervisors, occupant training will also be introduced.

Occupants of platforms must have a sound level of understanding to work on any MEWP; this includes knowledge of what to do in the event of an emergency. Qualified maintenance staff are now required to undertake regular maintenance and repairs training and are encouraged to inspect MEWPs in accordance with the manufacturer's recommendations and label the machine accordingly with the last inspection.

All stakeholders worldwide must comply with this training, bringing more consistency and reliability to the sector. A lack of training can have a considerable impact, and dealers, owners and operators need to ensure that these changes are in place to meet the A92 standards; striving to minimize human error, increase machine efficiency and achieve higher levels of safety and compliance.





you should ideally be an expert; offering reassurance and reasoning to operators whether they are buying, renting or leasing machinery.

Owners and operators must always adhere to the new ANSI requirements in terms of safe use procedures and training. This requires carrying out site risk assessments prior to use of MEWPs to ensure all operators have full awareness of machines regardless of use/application.

No matter if you're a manufacturer, rental company, supervisor or operator, you have a responsibility to adhere to the standards. Becoming familiar with what is required will help you avoid any unplanned issues and problems under the new standards and increase safety across the sector.

What are your responsibilities?

The introduction of the new ANSI A92 suite of standards have an impact on everyone all over America, and it is important to understand the requirements you must meet, as well as understanding the requirements of others within the sector.

Manufacturers, dealers and rental companies must ensure that all machinery meet the new standards and requirements. Updating training procedures and manuals should be a high priority to support owners and operators on their MEWP journey, as well as fully training maintenance staff. As a dealer/rental company,

Conclusion

The introduction of new ANSI A92 suite of standards, covering machine design, safe use and training requirements, puts safety at the forefront of the industry, and rightly so. The new standards hold us all responsible and accountable for the safer operation of Mobile Elevating Work Platforms and align the United States with the rest of the world using common safety approaches, as found in other major markets such as Europe and Australia. It is the responsibility of us all to positively embrace the changes of the new suite of standards, encouraging the adoption to the sector and to be part of the positive safety changes in the industry.

Steve Redding

Development Director
sredding@niftylift.com
+44(0) 1908 223456



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