

WICREATIONS

WIWAGON

WI

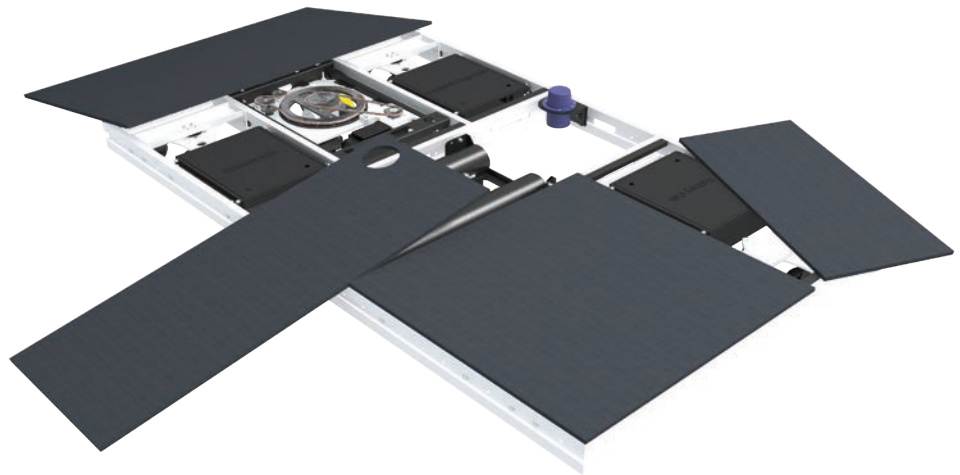
PC BY WICREATIONS

GENERAL INFO DUA

WI standard stage wagons or DUA 22 wagons are fabricated with a standard height of 191mm in which WI drive units are integrated. The special design of the units allows the drive wheels to rotate without damage to any floor, including canvas or dance floors.

We provide 3 types of DUA wagon depending on the load:

- the WIWAG-10.001.010 with a capacity of 1400kg at 1m/s
- the WIWAG-10.001.007 with a capacity of 2100kg and a speed of 0,75m/s
- the WIWAG-10.001.003 with a capacity of 3000kg and a speed of 0,375m/s



Each stage wagon has a complete navigation system on board, allowing the user to create a virtually unlimited range of very smooth and swift movements. The most fascinating formations are possible within 1 wagon system of 16 wagons simultaneously in operation. Using a patented algorithm, wagons can move along curves, maintaining one face forward as they move or rotate and move forward simultaneously.

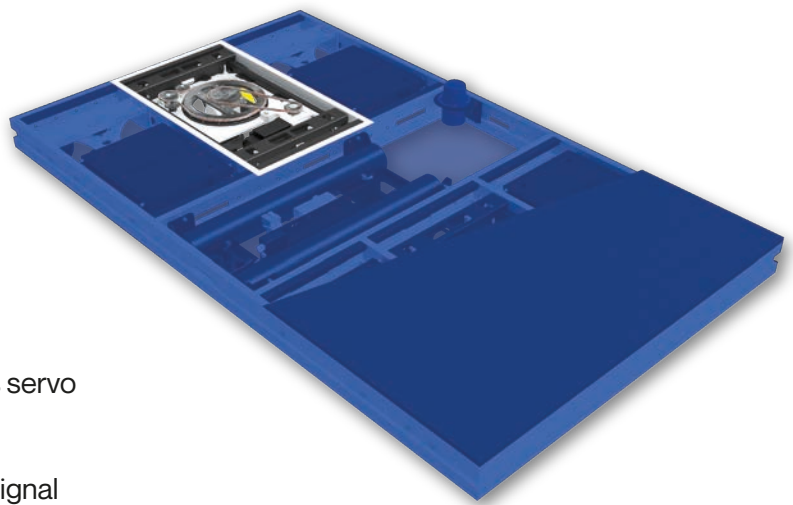
Wagons are built according to the following specifications:

- Full freedom of movement in 2 dimensions plus unlimited rotation
- Laser guided
- No cables, wires or other mechanical limitations
- Operation on most floor surfaces, including dance floors
- All components in a height of 200 mm
- User programming and operation from a single point
- Multiple operators and operating positions
- Up to 16 wagons in operation at any time
- Synchronization of any number of wagons
- Speeds of up to 1 m/s
- Position repeatability to less than 5 mm
- Reusable components

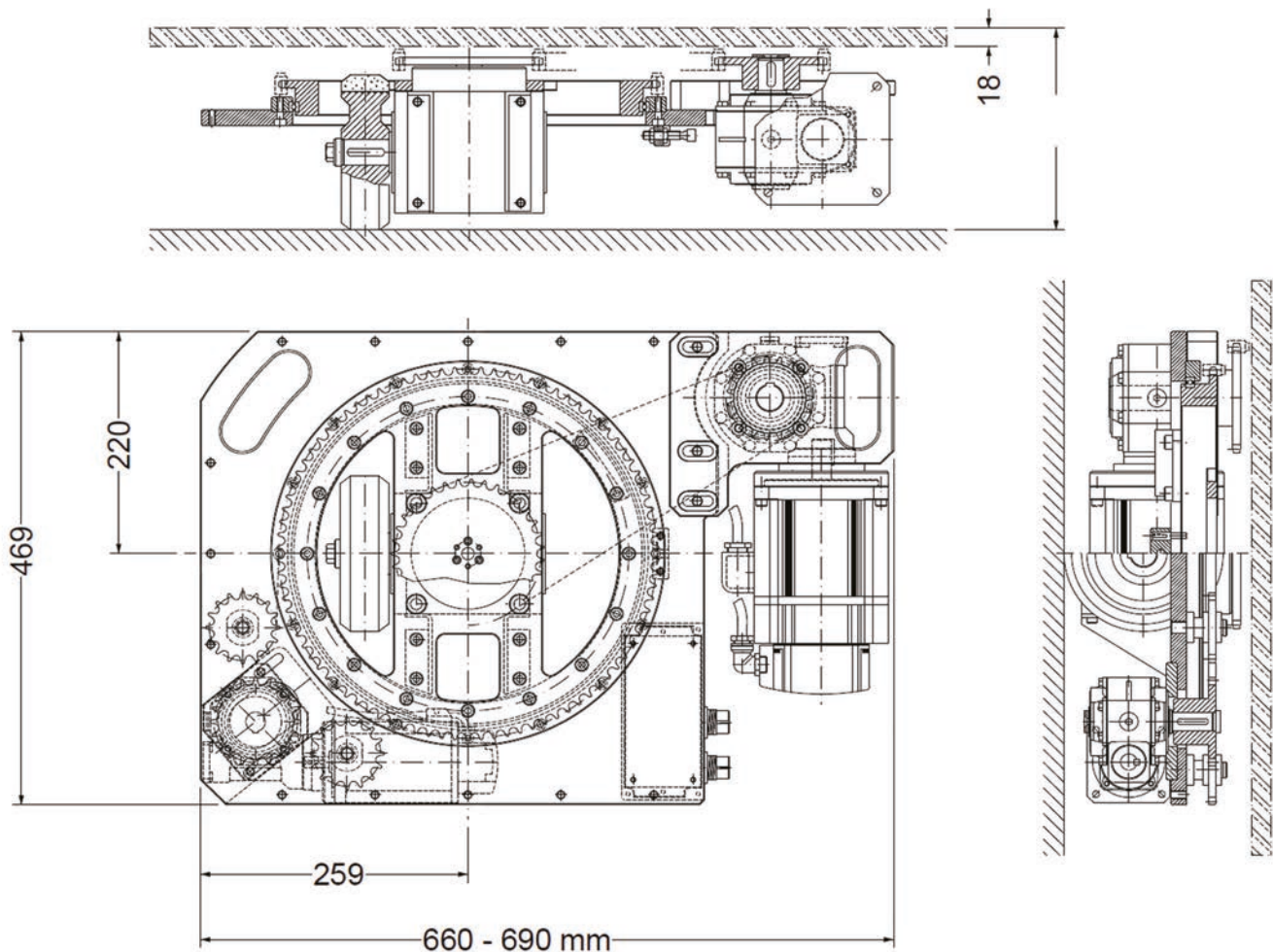
One wagon system consists of one or more control desks, one server and up to 16 wagons. All components are modular and easily installed in the wagon framework. They can therefore be re-used in wagons of different shapes and sizes and be replaced very quickly for service.

TECHNICAL SPECIFICATIONS - DRIVE UNIT

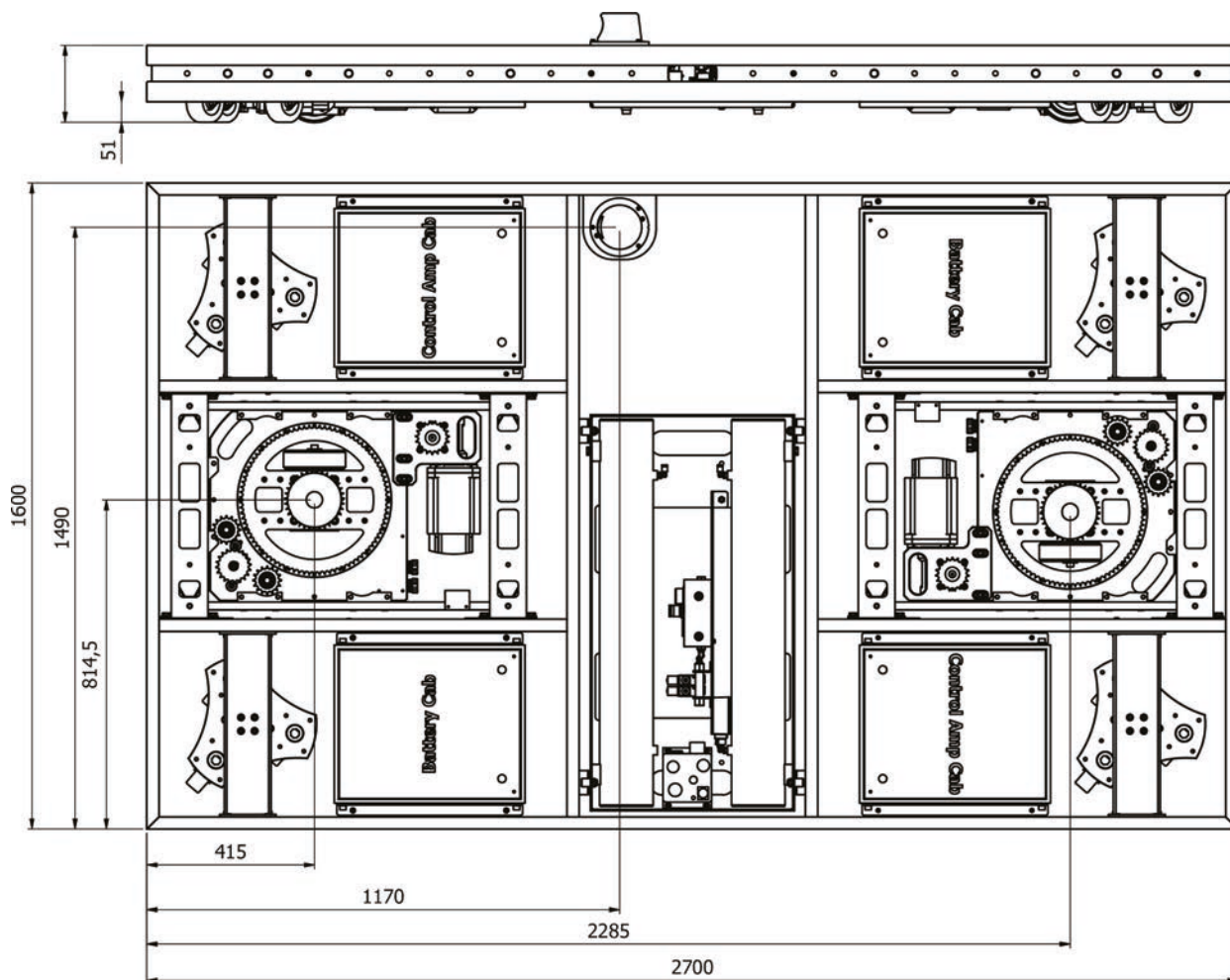
- Maximum vertical load depending
- Speed depending
- Height 200 mm
- Power 1500 W
- Motor type Synchronous servo
- Drive wheel diameter 154 mm
- Shore hardness 92
- Connections 1x power, 1x signal



MEASUREMENTS - DRIVE UNIT



MEASUREMENTS - STANDARD WAGON



WI standard stage wagon:

- Height 19,1cm (without laser or wooden plate)
- Length 2m70
- Width 1m60

CUSTOM WAGONS - DUB

We also provide custom wagons.

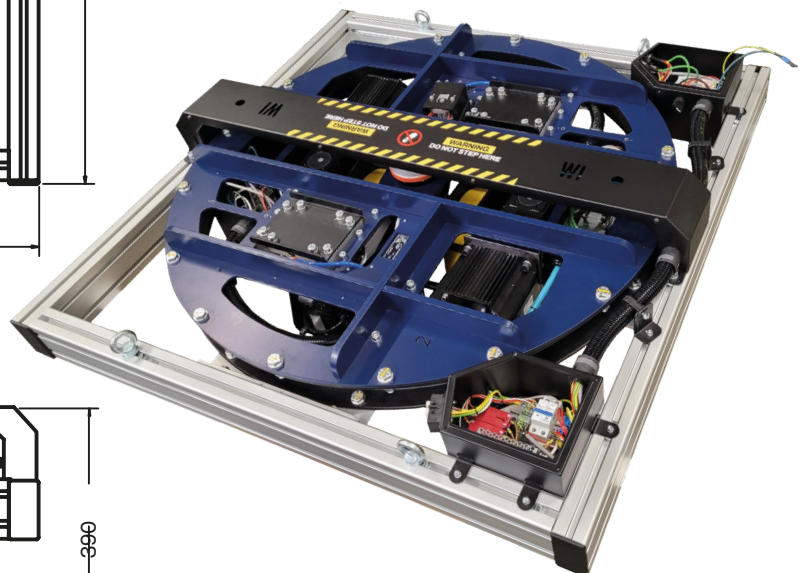
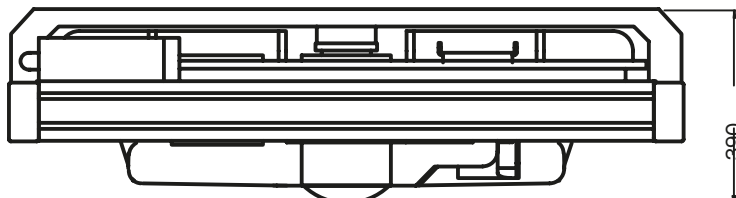
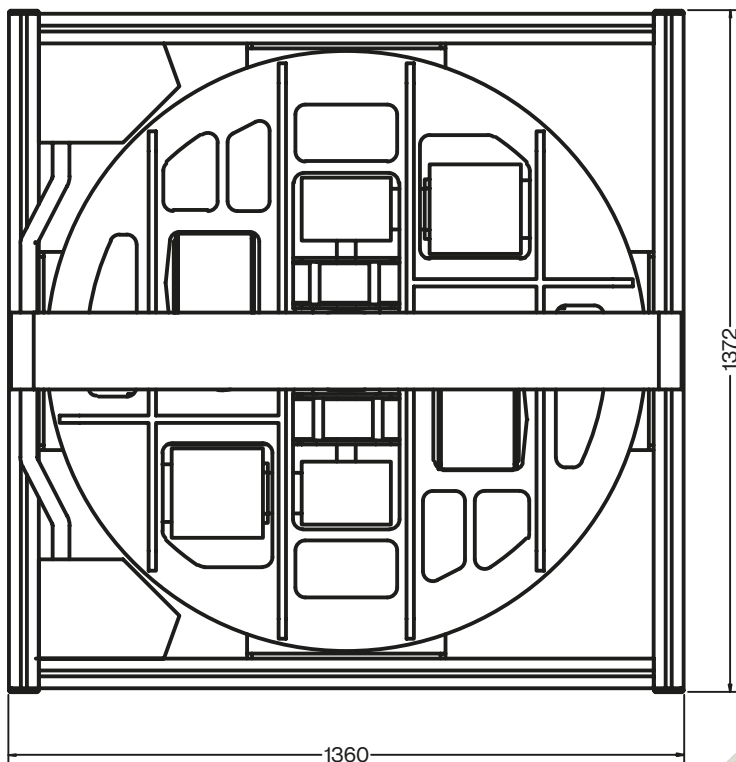
- the DUB 30 with a capacity of 5000kg at 0,5m/s
- the DUB 30 with a capacity of 2500kg at 1,0m/s
- the DUB 40 with a capacity of 20.000kg and a speed of 0,75m/s

GENERAL INFO DUB40

TECHNICAL SPECIFICATIONS - DRIVE UNIT

- Maximum vertical load 10 Tonnes
- Speed 700 mm/s
- Height 390 mm
- Power 3,14 kW 3F-120VDC-60A
- Motor type Synchronous servo
- Connections 1x power, 1x signal
- EN 17206

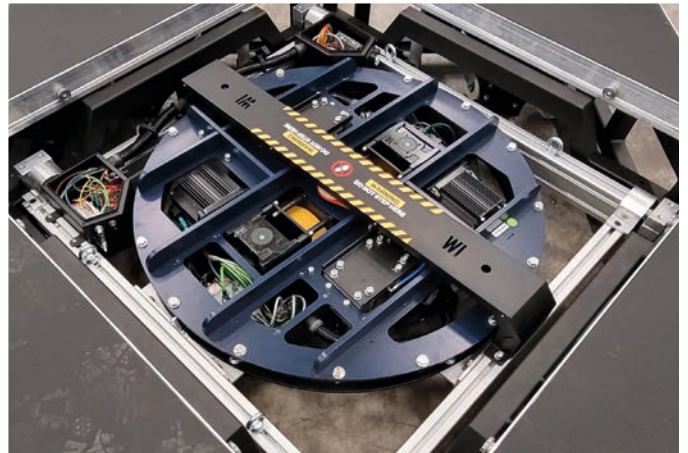
MEASUREMENTS - DRIVE UNIT



INNOVATIVE MODULAR SYSTEM

Multiple DUB40 drive units can be connected by linking frames added on both sides of the units. This way a wider motion range is guaranteed and heavy, huge or very large loads can be moved with millimeter precision up to 10 Tonnes per drive.

A minimum of 2 interconnected units should always be used in order to perfectly control direction, so 20 tonnes is a standard max. weight for 1 set-up.



CONTROL SYSTEMS

ADVANCED CONTROL DESK - AD4



- Dual playback
- Complete keyboard, incl. numeric keypad
- 1 USB port on the front panel
- Dual monitor
- Touchscreen

REFLECTORS

It's highly important to position and program the reflectors with the highest precision into the control system.



GUIDANCE AND COMMUNICATION



Each wagon is laser controlled, just like the stand. One or two laser eyes attached to each structure have to determine the position of every wagon. The eyes are positioned in such a way that they can see at least three reflectors at the same time.

Stage wagons can move with a precision of millimeters, although a realistic safety distance between the various elements is kept at all times.

The wireless network is one of the most important keys for the wagon's system efficiency. It is unacceptable to have any disturbance or interference on the WIFI network. That's why it is a 5,2 GHz network which is much more fit to eliminate all possible disturbances caused by mobile phones and other local WIFI systems.

The WI safety App (Grafana) allows us to control the WIFI connection constantly and warns us directly for any signal loss.

EXTENSIONS

The WI laser guided wagon can be connected to or used in combination with other wagons. A wagon can also be built into a much larger wagon for larger scenic elements and ambitious effects. A nice example is the moving of a car or a truck during a launch or exhibition just the way you want it to move. The same applies to whatever props or scenic elements from modest décor pieces to impressive creations and installations that have to move smoothly and swiftly just the way you had in mind. Guaranteed eye catchers and number 1 footage for social media.

For instance, moving a car around or some props,...



PICTURES



REFERENCES

- 2005 - Clouseau in't lang (In collaboration with Visual act)
- 2014 - Tegen de sterren op, ...
- 2014 - Studio100, '14-'18 Spektakel - Musical, ...
- 2015 - Multiple KENZO Fashion shows - Paris, ...
- 2016 - 10 Years WI, Peugeot Car Reveal, ...
- 2017 - The band, Loïc Nottet, ...
- 2018 - Studio100, '40-'45 Spektakel - Musical, ...
- 2019 - BWM Car presentation, ...
- 2020 - /
- 2021 - Studio100, Daens, ...
- 2022 - Toyota Car Reveal, ...
- 2023 - Studio100, Red Star Line, Imagination Car Reveal (Copenhagen),...
- 2024 - Bad Bunny, USA Tour, Car reveals,...
- 2025 - Car reveals, Robbie Williams, F1 75 Live

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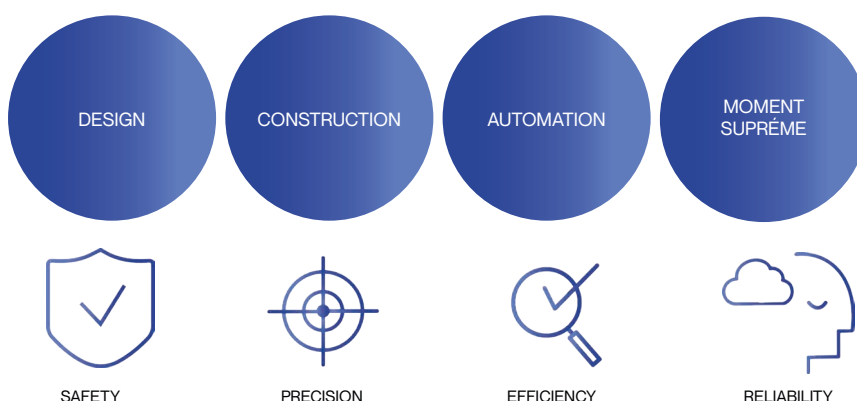
With WICREATIONS founded by Hans Willems in 2005, we are a world player in entertainment engineering, motion control, scenic and staging solutions for the live event sector. Our portfolio includes 250+ national and international shows, tours, festivals, theme parks, television and film productions, fashion events, sports and corporate shows. Amongst our clients we can count the biggest bands on earth such as The Rolling Stones, Rammstein, Ed Sheeran as well as local heroes and DJ's.

CORE BUSINESS

Prime motion technologies that create unique and spectacular upper and lower stage effects. A wide range of integrated systems and structures such as stage elevators, fly winches, moving hoists, tracking systems, turn tables and rotators are also available either on a rental base or complemented with custom fabricated elements, all of these operated via WIMOTION, our proprietary stage motion control system.

During the pandemic we further developed the WIMOTION ecosystem: a 360° cloud solution for all motion elements of a project aimed at facilitating pre-show collaboration and feedback thanks to realtime previsualization.

We combine passion for the entertainment industry with an unwise addiction to tech and a stubborn focus on always delivering the best solution ever.



Please find more details on our website: www.wicreations.com

How to shift our focus towards a more sustainable company and circular production?

SUSTAINABILITY

WI sure are very innovative as to our core business, but the last couple of years we clearly felt the urge with many WI people, clients and audiences to do more and give back to nature, planet and people.

September 2021 we stepped into the 3-year UN sustainability program for a structural approach supported by VOKA expertise, the Belgian Chamber of Commerce.



KEY FOCUS AREAS

9 areas have been selected grouping clearly defined actions within the 17 UN SDG's guided by 3 driving principles:



Alertness to always consider the most sustainable approach in every action big or small we undertake



Equal respect, opportunities and a non-judgemental environment for everyone



Support for ideas that aid the achievement of new green technologies and sustainable targets

Read more on our [#WIGIVEBACK](#) initiatives

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