



**Model SSD-1**

**With the rise of electric two-wheelers and a growing number of serious accidents, especially among young riders, a new testing solution was urgently needed.**

The SSD-1 sets a new benchmark in roadside testing of mopeds, e-bikes, e-scooters, and speed pedelecs, accurately measuring top speed and power output. Thanks to synchronized front and rear wheel drive, it can test vehicles with front-wheel speed sensors, rear-wheel drive, front-wheel drive, or all-wheel drive.

A permanent magnetic brake simulates realistic driving resistance for accurate measurements. The durable drive belt and adjustable front wheel support accommodate wheelbases from 800 to 1550 mm and wheel sizes from 6" to 29", up to 250 mm wide.

Equipped with advanced electronics, the SSD-1 features integrated fault diagnostics, a built-in calibration system, and an optional printer for test results.



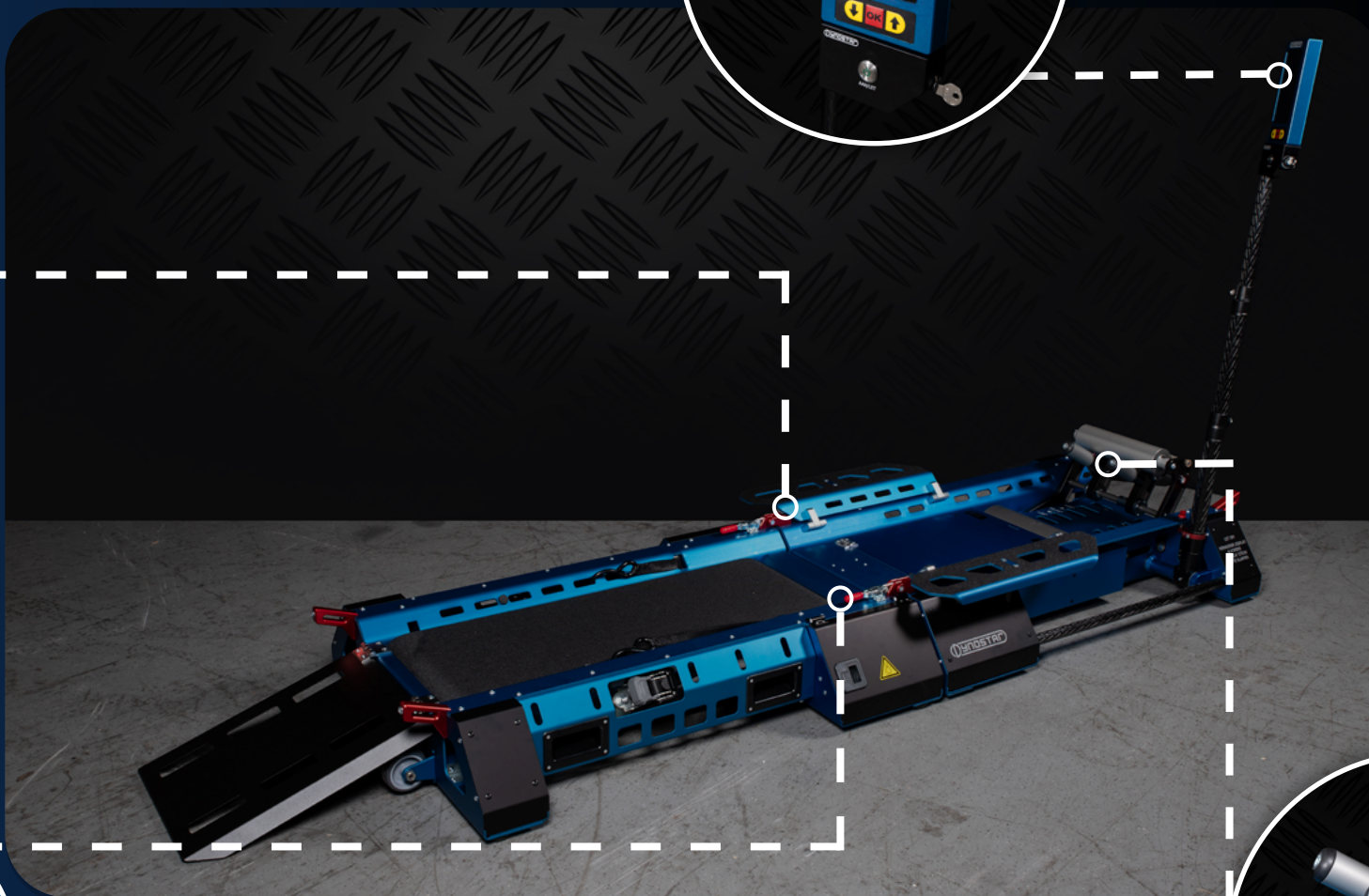
Built in compressor with pressure sensor for checking and correcting the tire pressure.



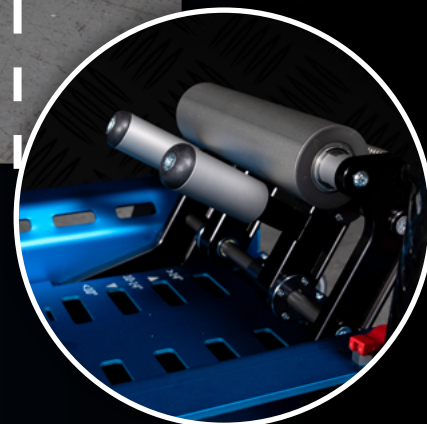
Easy transport and storage: built-in wheels and handles, stackable both vertically and horizontally.



Removable and full color 7" display with high visibility, even in bright sun light.



Synchronized drive between front and rear wheel for accurate road simulation.



# What you get

## Technical specifications

|                              |                                    |
|------------------------------|------------------------------------|
| Weight                       | 34 kg front, 35 kg rear            |
| Dimensions (lxwxh)           | 2,20 x 0,70 x 0,33 [m] (assembled) |
| Power supply                 | 24V 20Ah Li ion battery            |
| Absorbed current max         | 0,9 max 6 [A]                      |
| Std. operation on one charge | 8 [h]                              |
| Max. speed                   | 125 [km/h]                         |
| Resolution                   | 0,1 [km/h]                         |
| Max. power                   | 5 [kW]                             |
| Resolution                   | 1 [W]                              |
| Drum width                   | 300 [mm]                           |
| Drum diameter                | 124 [mm]                           |
| Number of drums              | 3                                  |
| Max. vehicle weight          | 150 [kg]                           |
| Max. operator weight         | 150 [kg]                           |
| Wheelbase                    | 800-1550 [mm]                      |
| Wheelsize                    | 6"-29"                             |
| Temp. range                  | -10C - +50C                        |



### Type approval numbers, applied standards

NMi; TP9026R8

KIWA; EN 61000-6-2 (2005), EN 61000-6-2 (2019),  
EN 55016-2-3 (2017), EN-IEC 61000-4-2 (2009),  
EN-IEC 61000-4-8 (2010)

ISO; 7116-2011

OIML; d011-e13

# What's included

## Included

Rechargeable battery and charger

Integrated foldable ramp

Foldable carbon fiber telescopic pole for HMI

Built-in load cell calibration and control system

Synchronized drive between front and rear wheel

Removable full color display 1000nits

IP54 or higher

Durable anodized aluminum frame

Drive resistance simulation with permanent magnetic brake, stepper motor control and load cell

24VDC, 20Ah Li-ion battery for over a day of operation

Industrial grade sensors and electronics, no external cables

Foldable side steps for comfortable and easy testing

Coated front wheeldrum for grip

Shiftable clutch for rear wheel drive only



# What you can add

## Optional

Built-in compressor with pressure sensor

Thermal transfer printer

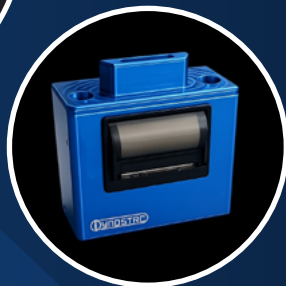
Add-on front wheel support for e-scooter (6-9 inch)

Power measurement in Watt (max. 5 kW)

Body kit for stationary applications

Front drum cover for testing crashed vehicles

Straps front & rear



## V1.2

Dynostar  
Argon 16  
4751 XC Oud-Gastel  
The Netherlands