

Truck Scales DFT-E/A

- Available as a pit-mounted or above-floor mounted version made of prefabricated concrete parts
- Cost effective all-round solution
- Available in an optional extra-flat design
- Can be assembled within one working day and easily relocated
- Scales' lengths of up to 25 m
- Trough with integrated foundations (optional) means minimal on-site preparatory work



Application

DFT scale are used for legal-for-trade freight weighing of road vehicles or for loading goods on the scales. The combination of truck scales and the modern control systems of the DISOMAT or CONiQ Control device family or PC solutions produces user-friendly, high-performance scale systems.

Examples of some typical applications are: inbound / outbound weighing in manufacturing plants and transport companies, or comfortable material-flow management systems, e.g. in waste management facilities.

Furthermore, Schenck Process can supply dedicated additional components such as stoplights, barrier systems or large displays. Above and beyond the supply of such components, optimized data acquisition and automization systems on a PC or PLC basis can be designed and implemented for specific applications. This enables Schenck Process to provide customers with complete solutions - e.g. driver-operated scales systems.

Equipment

The DFT scales are made of high-grade prefabricated concrete parts of strength class C45/55. High-quality RTN ring-torsion type load cells or self-centering VDW compression load cells are used as load sensors.

The RTN cells have the advantage of higher restoring forces; among other things, this allows the scales to come to rest faster - a decisive advantage for scales with high weighing frequency

A foundation plan and standard assembly drawings are also supplied along with the prefabricated concrete parts and the entire scales mechanical system.

Options

The truck scales DFT-E/A is available in the following standard dimensions:

- 8 x 3 m (one bridge)
- 10 x 3 m (one bridge)
- 12 x 3 m (one bridge)
- 16 x 3 m (two bridges)
- 18 x 3 m (two bridges)
- 20 x 3 m (two bridges)
- 24 x 3 m (two bridges)
- 25 x 3 m (two bridges)

Custom lengths can be supplied on request.

The standard-design built-in scales has a depth of 89 cm. This depth ensures good access to the sensors (maintenance) and allows the trough to be cleaned easily. An optional extra-flat version is also available with a depth of 79 cm, suitable if the available space on site is insufficient for the standard version or if problems due to groundwater are anticipated.

Functions

The deep version features:

- 1% incline for good water drainage and improved self-cleaning
- Frontal drainage connections
- Optional floor drain
- Integrated crash protection

The scales foundations can be implemented as:

- Strip foundations cast on-site (provided by the customer)
- Prefabricated strip foundations
- Foundations integrated into the trough. In this case the only on-site preparatory work required is the preparation of a cleanly ground-off sandbed (available only for the deep version)

The mere 40 cm high mounted DFT-A consists of one or two weighbridges. Two optional drive-on ramps can also be supplied (also available cast on-site).

Alternatively, the above-floor scales can also be supplied with integrated fill-walls. This provides an ideal basis for ramps constructed on-site.

The bridges and ramps of the DFT-A are equipped with curbs to assist in guiding the vehicles securely

Transport / Assembly

The DFT can be delivered to installation locations within Germany and neighboring countries and assembled there for a set price.

A small crane is generally sufficient for the installation and assembly. This facilitates the installation in difficult-to-reach locations.

The assembly can be performed in one day thanks to the consistent optimization of the parts and the pre-assembly of many components.

The DFT can be relocated easily - including the built-in version

Legal-for-Trade Verification

Schenck Process and its service partners are authorized to perform a legal-for-trade verification of the scales within the EU as part of the manufacturer's responsibility. This eliminates the need to coordinate dates with official offices and saves additional costs.

Costs

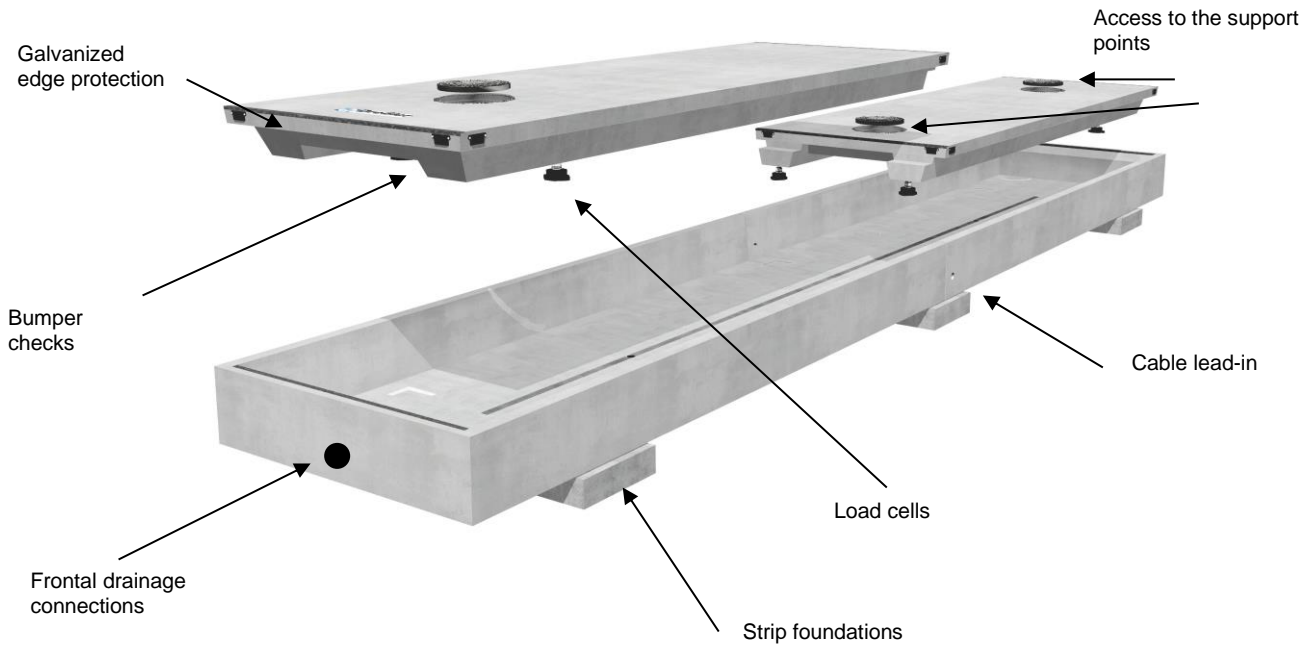
If one considers the overall package, that is

- Parts
- Assembly
- Legal-for-Trade Verification
- On-site services
- Downtimes
- Maintenance

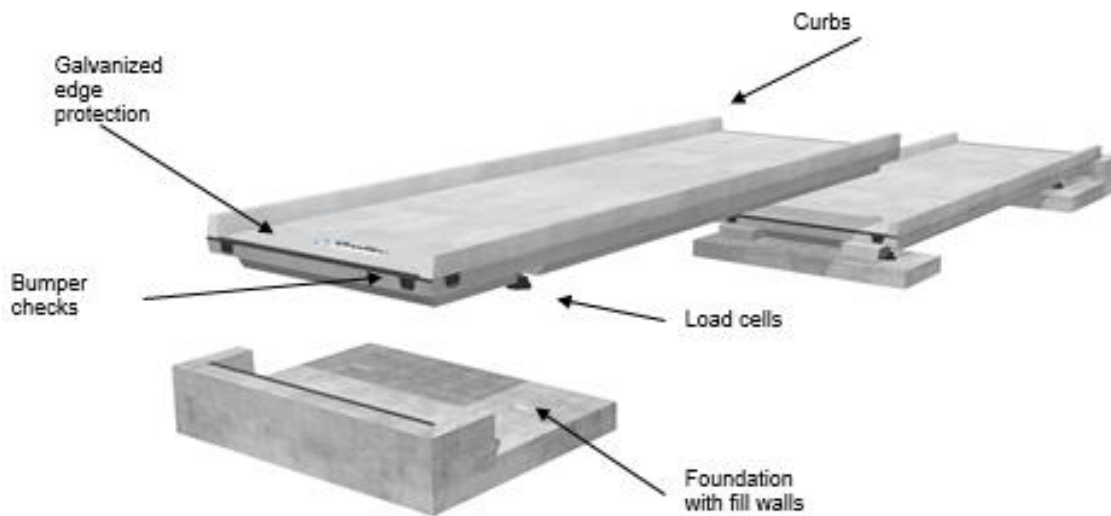
One can see that:

The Schenck Process DFT offers a simple and cost-effective solution.

Built-in Version DFT-E5



Mounted Version DFT-A



Technical Data for Truck Scales DFT-E/A

Load-carrying capacity	60 t
Weighing range	50 or 60 t
Increment value d	20 kg, Multi-range scale with d = 10 kg for 30 t weighing range available
Bridge length	8, 10, 12, 16, 18, 20 m, 24 m, 25 m. custom lengths are available.
Bridge width	3.355 m (exterior trough) 3.015 m (exterior bridge) 2.70 m (interior curb)
Trough depth DFT-E	88.5 cm (Standard) 78.5 cm (optional)
Foundation depth	40 cm (cast-on-site) 29 cm (prefabricated part) 10 cm (built into the trough)
Mounting height DFT-A	40 cm
Load cells used	Schenck Process RTN or VDW
Accuracy	Legal-for-trade verification, in compliance with the EU directive EN 45501 (OIML R 76-1), Class III trade scales

Options
Curbs for bridges and troughs in the built-in version DFT-E
T-section seal in the built-in version DFT-E
Lightning protection
Design for operation in explosion hazard areas
Weighbridge coloring
Scales foundation coloring
Roadway surface heating system
Integrated roadway marking
Surface seal
All metal parts made of stainless steel
All-round edge protection
Installation at an incline
Extension of existing bridges

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