## **CRANE** TEST SYSTEMS









## CRANE TEST SYSTEMS TENWINKEL 5 kg – 165 t

According to **European regulation**, every operator of crane systems must inspect these systems at regular intervals. We can offer our utility model-protected crane testing systems for this purpose.

We offer the following basic sizes:

0.8 m x 1.2 m Together with steel weights, we can realise test systems from 5 kg to approx. 6,500 kg with this size.

1.0 m x 1.5 m
With this size, test systems from approx.
250 kg to 12,000 kg can be assembled.

1.5 m x 2.0 m With this basic size, test systems from approx. 500 kg to 165,000 kg (165 tonnes) can be combined.

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The test systems each consist of different plates. Various pins secure the test panels during lifting. Shackles or lifting beams with safety stop points distribute the lifting forces to the crane hook. The test panels are connected to each other via square tubes through the bolts. The test plates are simply placed on top of each other and integrated cones centre each other.

All weights and thread systems are tested. The hoists are installed by us with a certificate and comply with the relevant safety loads. The test systems include a manual with a declaration of conformity and a checklist for your annual inspection. **The** weights cannot be calibrated.

All crane inspection systems are customised. Most of the requirements relate to the 110% load disconnection test, but any other load regime can also be can also be created. Below are some examples of test systems that we have have manufactured:





Optional **forklift tender trolleys** enable flexible handling of test systems weighing up to **30 tonnes**. In most cases, a small **forklift of approx. 3 tonnes** is sufficient for moving. You can reach almost every corner of the test location and manoeuvre safely in any space. **Alternative trailer versions can also be offered.** 

All metal parts are primed and painted in traffic red (RAL 3020), all concrete panels are painted in light grey (RAL 7035). The weights have a tolerance of -0/+2.5% and are cast using a scale. **The weights cannot be calibrated**.

## **INDIVIDUAL TEST SYSTEMS/WEIGHTS** ACCORDING TO CUSTOMER REQUIREMENTS

On request, we can develop a test weight/counterweight solution according to your drawings or together with you. Thanks to the production possibilities in our own mould making department, we can produce individual items and small series in simple wooden moulds. Metal and GRP plastic moulds are ideal for medium and large series. We process **concretes with densities from 1.8 kg/dm³ to 5.3 kg/dm³**. The concretes have a **compressive strength** of at least **C55/67 (67 N/mm²) up to ultra-high performance concretes over 120N/mm² (UHPC)**. Our own crane capacity enables us to move unit **weights of up to 30 tonnes**. Heavier projects are possible with external partners.

We have trained and certified welders in metal production in accordance with **EN-ISO 3834** and **EN 15085-2 CL2**. This means that we are also able to weld safety-relevant metal joints safely and in compliance with testing requirements.



## **Tenwinkel** GmbH & Co.KG

Tenwinkel GmbH & Co.KG Max-Planck-Str. 31 48691 Vreden

Tel: +49 (0) 2564-394938-0 Fax: +49 (0) 2564-394938-99





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