NEXT.assembly

Rolling Master

Reference chassis with height measuring surfaces

The reference chassis is used to check the existing measuring process and determine the reproducibility and accuracy of measured values in relation to specified tolerances.

Machine capability studies to determine the process capability indices cm and cmk can be performed independently of the flexibility of a chassis. The influence of different wheel/tire combinations on the results of the chassis geometry measurement can be tested by replacing the wheels.

The reference chassis is equipped with known characteristics regarding toe and camber values. Each wheel mount has different but fixed toe and camber values.

CUSTOMER BENEFITS

- Checking the measuring capability for different wheel and tyre combinations
- Enables measurements with real tyres and rotating wheel
- Execution of machine capability studies
- Adjustment of several test lines

Technical Data

Rolling Master

DESCRIPTION

The Rolling Master is manufactured in such a way that no mechanical changes to the chassis geometry values can occur within the specified accuracies.

As standard, the reference chassis is equipped with 4 pieces of wheels in the size 7.5 x 17" and tyres in the size 225/45R17.

The use of serial/customer tyres and rims is possible as an option. To check an existing height measurement at the fender edge, corresponding height measurement surfaces can be attached to the reference chassis.

Another possible application is to use several chassis geometry test stands to be compared with each other.

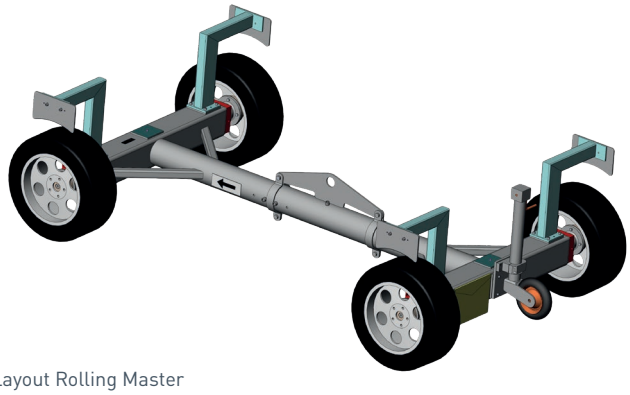
The reference chassis is measured on a 3D measuring machine and delivered with the corresponding measurement protocol.

SCOPE OF SUPPLY AND SERVICES

1 off reference chassis/Rolling Master

POSSIBLE OPTIONS

- Software, parameterization, commissioning on site (2 days by Dürr employees)
- Measurements on site, together with customer (3 days by Dürr employees)
- Height measurement surfaces
- Supply of customer-specific wheels
- Comparison of several test stands with each other



Layout Rolling Master

TECHNICAL DATA	
Design	Welded steel construction
Wheelbase	2.500 mm
Axles	Fixed
Measuring values	– Toe – Camber – Height
Track width front axle	1.550 mm
Track width rear axle	1.500 mm
Wheels	Aluminium 7,5 x 17"
Tyres	225/45 R 17
Toe front axle	Left: + 10' Right: + 20'
Toe rear axle	Left: - 10' Right: - 20'
Camber front axle	Left: + 20' Right: + 20'
Camber rear axle	Left: - 90' Right: - 90'
Possible transport	1 off transport wheel, height adjustable
Painting	RAL 9006, white aluminium

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