

Product Name :
Kinematic Model Ackermann Steering Mechanism

Product Code :
TN988



Description :

Kinematic Model Ackermann Steering Mechanism

Technical Specification :

Kinematic Model: Ackermann Steering Mechanism

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Verifying Ackermann's steering principle

Calculate the wheelbase

Determine the lead angle and the steering error

Specification:

Investigate a steering trapezoid

Investigate the steering geometry according to ackermann

Adjustment of the track rod lengths

Read the steering angle on the scales

Adjustment of the zero position of the steering angle by locking the mechanism

Adjustment of the steering angle of the inside wheel

Measure the steering angle of the outside wheel

Base plate with handles suitable as benchtop model and for wall mounting

Technical Data:

Track rods

Individually adjustable
Distance between the steering pins
465mm
Measuring range of the steering angle
 $\pm 50^\circ$
Scale graduation: 1°
Dimensions and Weight
Length x Width x Height: 620x280x60mm
Weight: 6kg

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