

NEXT.assembly

x-align

The rear axle adjustment

The adjustment of the vehicle geometry of passenger car rear axles states an important step in the production chain of the vehicle assembly.

Both in module pre-assembly and final assembly, high demands are placed on the adjustment accuracy of the chassis parameters.

Strongly varying customer requirements with regard to product and process flexibility require flexible plant technology that can be optimally adapted to the demands.

Dürr x-align setting stations meet manufacturer-specific requirements using standardized function modules.

CUSTOMER BENEFITS



Scalable: adaptable to varying production and setting conditions

Flexible: realization of different degrees of automation

Easy to maintain: standard drive elements with long service life, optimised maintainability, reduced spare parts stock

Modular: function modules with defined interfaces allow expandability or exchangeability

Fast: vertical axes with high system dynamics guarantee short cycle times

Technical Data

x-align

MANUAL SETTING TABLES

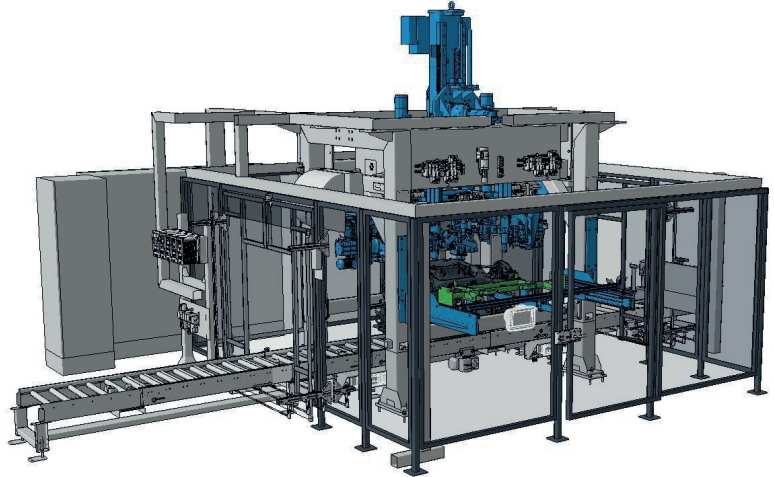
Manual setting tables have a wide range of applications: from small series production and measuring tasks in the field of quality assurance to use as systems for emergency strategy, this system variant represents an ideal solution.

SEMI-AUTOMATIC TABLE SYSTEMS

For medium production volumes, semi-automatic table systems with operator-guided adjustment are preferred. They offer an optimum combination of moderate investment costs and automated measuring sequence.

FULLY AUTOMATIC GANTRY SYSTEMS

With fully automatic gantry systems a maximum of productivity and setting quality is achieved. They enable the realization of the most varied test and adjustment tasks – process-safe and product-variable.



Fully automatic gantry system

TECHNICAL DATA

	Work area	Max. speed
Central lifter (editable parameters)	Pulse speed	Up to 200 mm/sec.
	Load range for adjustment in KO position	4 kN to 8 kN
	Max. pulse load (KO+80 mm position)	Up to 20 kN
	Typical pulse strokes <ul style="list-style-type: none"> • Only compression stroke • Compression and rebound stroke 	Up to +100 mm Up to +/- 80 mm
	Max. transfer distance	860 mm
Pneum. clamping device	Clamping force (5 bar)	6 kN to 15 kN
Measuring system	Measuring range	30 mm
	System accuracy measuring sensor	+/- 1 µm
	Measuring accuracy toe/camber	+/- 0,039' (with baseline 175 mm)
Servo motor driven adjustment units	Typical adjustment tolerances	Single track: +/- 2' Camber: +/- 3'