LEADING IN PRODUCTION EFFICIENCY

x-align
REAR AXLE ADJUSTMENT

Our adjustment for your success

Product

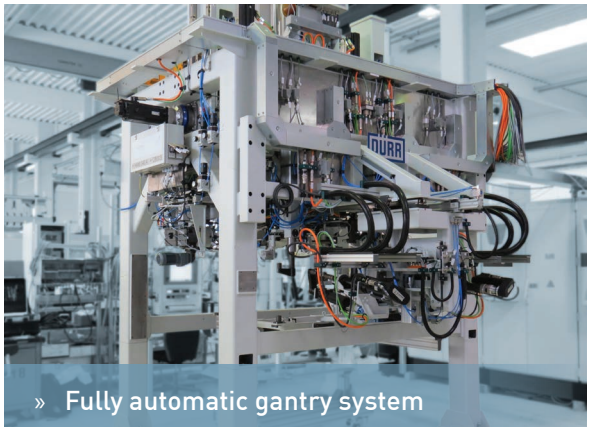
The adjustment of the vehicle geometry of passenger car rear axles states an important step in the production chain of the vehicle assembly. In the module pre-assembly as well as in the final assembly there are high demands with respect to the adjustment accuracy of the chassis parameters. The customer requirements vary strongly regarding product respectively process flexibility. This requires a flexible system technology which can be adapted optimally to the demands.

Dürr setting stations „x-align" fulfil manufacturer-specific requirements using standardized function modules.

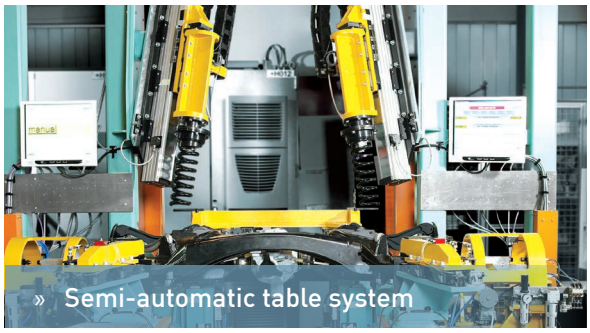
Manual setting tables has a wide range of application: from small series production via measuring tasks in the field of quality assurance up to the use as equipment for emergency strategy the system variant represents an ideal solution.

Most suitable for medium production volumes are **semi-automatic table systems** with operator-guided adjustment. They offer an optimal combination of moderate investment costs and an automated measurement process.

With **fully automatic gantry systems** high productivity and setting quality is achieved. They allow the realization of versatile testing and setting tasks – process-safe and variable.



» Fully automatic gantry system


» Semi-automatic table system


» Manual table system

x-align

Technical Data x-align		
Wheel hub lifting device (Editable parameter)	Pulsing speed	Up to 200 mm/sec.
	Load range for setting in ride height position	4 kN to 8 kN
	Max. pulsing load (ride height +80mm position)	Up to 17,5 kN
	Typical pulsing strokes - compression stroke - compression and rebound stroke	 Up to +100mm Up to ± 80mm
Central lifter	Max. transfer distance	860 mm
Pneum. clamping device	Clamping force (6bar)	6kN to 20kN
Measuring system	Measuring range	30 mm
	System accuracy measuring sensor	+/- 1 µm
	Measuring accuracy toe / camber	+/- 0,039' (with baseline 175 mm)

Characteristics

» **Scalable**
Adaptive to varying production and adjustment conditions

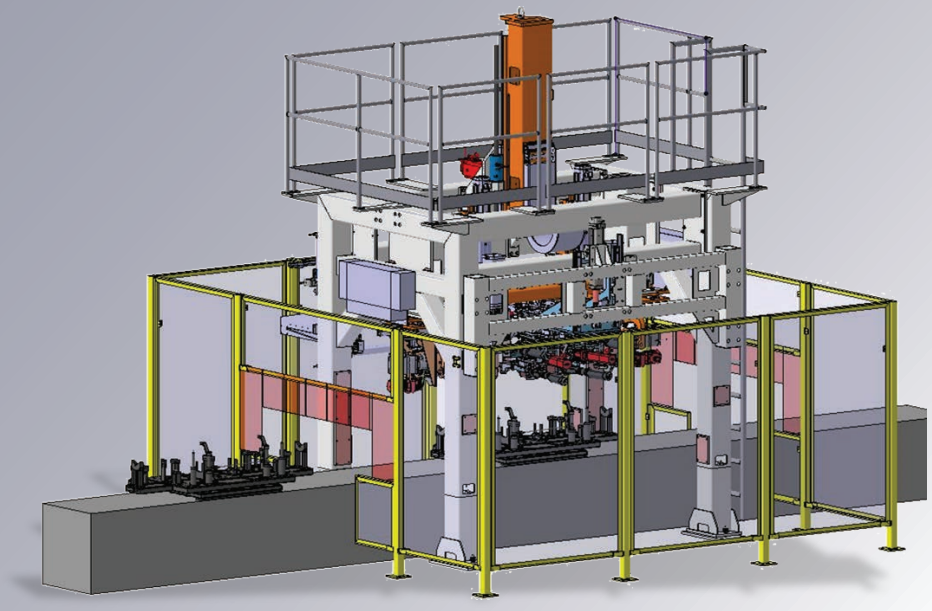
» **Flexible**
Realization of highly diverse automation degrees

» **Maintenance friendly**
Standard drive elements with high life expectancy, optimized maintainability, reduced spares inventory

» **Modular**
Function modules with defined interfaces allow expandability respectively exchangeability

» **Quick**
Vertical axles with high system dynamic guarantee short cycle times

» **Safe**
high-level personnel safety due to integrated safety equipment



» Layout rear axle setting station x-align

* The photos resp. images of the assembly and test systems in our flyer do not show the complete system. The requirements of the machine regulations (2006/42/EG) are only fulfilled through additional scopes of supply resp. have to be fulfilled by the manufacturer of (complete) machines on delivery of uncomplete machines. Flyer x-align, Version E