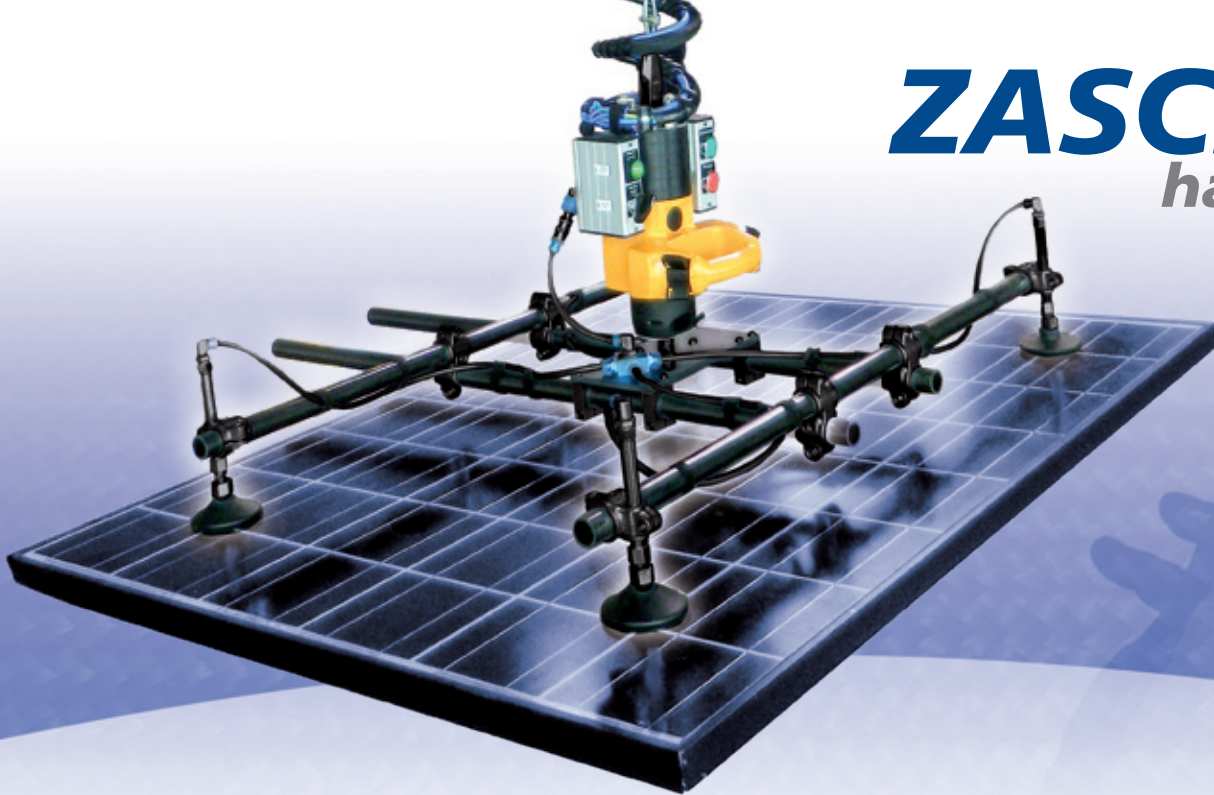




CARBON!

Manual material handling meets high technology

Highlights:

Work easier

For manually guided manipulators, so-called „dead masses“ (e.g. the arms, and associated fixturing) , in addition to the actual weight of the workpiece, must be accelerated and braked at least twice for each completed lift operation.

With components made of carbon, ZASCHE GmbH achieves **up to 75%** reduction in weight!

Benefits :

Ergonomics and Acceptance

Current Conditions regarding:

- » **Ergonomic factors of manual lifting**
- » **Handling equipment adoption by the workforce**
- » **Workforce development** and new design of work environments

...are greatly improved through the use of carbon technology.



Experience Carbon technology personally in our Showroom!

Take an opportunity to visit us in our showroom in Nördlingen. We are pleased to present our products to you. We have on exhibit all the basic equipment of our portfolio. With a first hand experience you can compare conventional and

CARBON manipulators in a direct arrangement and get a comprehensive evaluation of manual handling. We would be glad to setup any of our devices to simulate your handling tasks based on your components.



NEXT GENERATION CARBON-MANIPULATORS!

Manual workplaces are subject to ever-increasing demands with regard to ergonomics and acceptable hand and limb forces. We take these requirements into account with the design of all our products.

A Pivot arms KSL-Carbon

...are either fitted with pneumatic rope balancers or with electric rope winches. These units are mounted above the pillar. This affords the worker highly convenient handling, as only the extremely low mass of the arm has to be moved.

Technical specifications:

- » Loads up to 115 kg
- » Outreach up to 3,800 mm

B Parallelogram-Carbon

...is a manual operated, pneumatically supported parallelogram manipulator. This design makes it possible to absorb torques and allowing it to pick up workpieces away from their center of gravity. It is characterized by its ease of use and low hand force to move the loads.

Technical specifications:

- » Loads up to 125 kg
- » Outreach up to 3,000 mm

Carbon load handling attachments:

On request, we can provide load handling attachments made of Carbon. Please inquire!