



MANIPULATORS MADE OF **CARBON!**

»» Chance: Work more easily

For manually guided manipulators so-called "dead masses" (e.g. the arms) must be accelerated and braked at least twice for each completed work cycle – in addition to the actual weight of the workpiece.

With components made of carbon, ZASCHE Sitec achieves reductions in weight **up to a factor of four** compared with the material commonly used today.

»» Benefits: Ergonomics and acceptance

Current requirements regarding the

- »» ergonomic design of manual workplaces
- »» acceptance of handling equipment by the worker
- »» demographic development and the resulting new design of workplaces

... are exceeded by far through the use of this material.





CARBON!

»» KSL-Carbon pivot arms

... are either fitted with pneumatic rope balancers or with electric rope winches. These units are mounted above the pillar. They therefore offer 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

»» Control systems

- »» the robust pneumatic up/down control
- »» the quick pneumatic double-load control
- »» the convenient electro-pneumatic manual force control

»» Plug and work

... the KSL-Carbon pivot arm is ready for operation: set-up, connect, ready