

Practical orbital system solution for automated welding of DN300 and larger pipes

- Complete system with outstanding value for money
- Great cost-saving potential
- Outstanding, reproducible quality
- High deposition rate
- Long arc burning times
- Maximum ease-of-operation
- Short set-up times
- For root, fill and final passes, with or without air gap

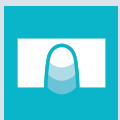


pipeTruck – Top-quality, op

System advantages

- It's unique – A fine-tuned, ready-to-weld EWM orbital welding system:
 - Patented pipeSolution welding process
 - alpha Q multiprocess MIG/MAG welding machine with one or two wire feed units
 - AMT automated welding torch
 - Orbital pipe welding carriage
 - Control unit for the pipe welding carriage
 - Remote control for welding machine and pipe welding carriage
 - Welding consumables
- Universal in use – In the field (construction site), for pipes laid in the ground, in pipe construction and in the workshop
- 100% X-ray-proof with a 5–15x increase in the deposition rate thanks to pipeSolution (in comparison to manual TIG (GTAW))
- Large cost reduction ⇒ in comparison to TIG, MMA and vertical-down welding
- Increase in quality ⇒ in comparison to vertical-down welding
- The reproducibility, consistency and precision of the system is comparable to that of robot welding
- X-ray-proof weld seams are ensured by the pipeTruck system and the pipeSolution process, and thereby fulfil the following recognised international standards, including, but not limited to:
 - ASME V, B31.3, API 1104 (Code Specs), ASTM E 2373, B31 Case 181, Code Case 2235, DINEN, EN ISO 17640, EN ISO 10863, Pr EN ISO 13588, DICONDE

alpha Q multiprocess welding machine



pipeSolution®

Powerful arc for fast, safe welding in every position, with or without a gap

- Root welding with solid welding consumables at MAG welding speed and in TIG quality
 - Total elimination of "wire stab" into the air gap
 - Optimum molten pool viscosity for each weld seam preparation
 - Customised characteristics ensure full-fusion welding
 - Preparation work, e.g. weld pool backing, reduced/eliminated
 - The cost-effective alternative to TIG welding
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- In addition to the welding processes listed here, the alpha Q is capable of the coldArc, forceArc, standard MIG/MAG, TIG (lift arc) and MMA welding processes



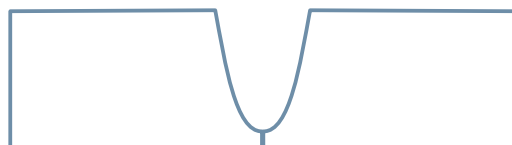
alpha Q 551 RC pipeTruck



pipeTruck R



pipeTruck R



Considerably faster than comparable GMAW processes (U-weld)

timally safe orbital welding



alpha Q drive 4L pipeTruck



alpha Q RC2



AMT torch



pipeTruck RC3



ck



impulse

Controlled, short-circuit-free pulse arc for all positions, especially in the transitional arc area.



PATENTED

superPuls®

Process switching

The combination of EWM welding processes offers a multitude of possibilities.

pipeTruck system

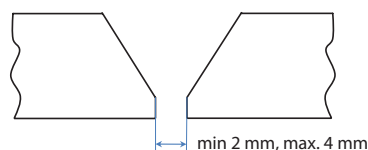
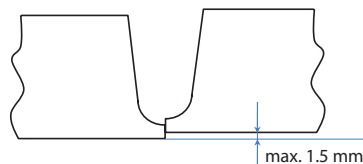
- Considerable reduction in set-up time – The 19-kg tractor is placed effortlessly on the track system and can be clamped in quickly
- Extremely long service life – The track system is made of stainless steel and is available for almost all pipe sizes (DN300 and larger)
- High precision of the orbiting speed, linear oscillating motion with adjustable frequency and dwell times
- Seam can be accessed at any time thanks to the arrangement of the welding system on the tractor side
- All electronic control elements for the motor controls work together in an automated cycle, but they also work individually

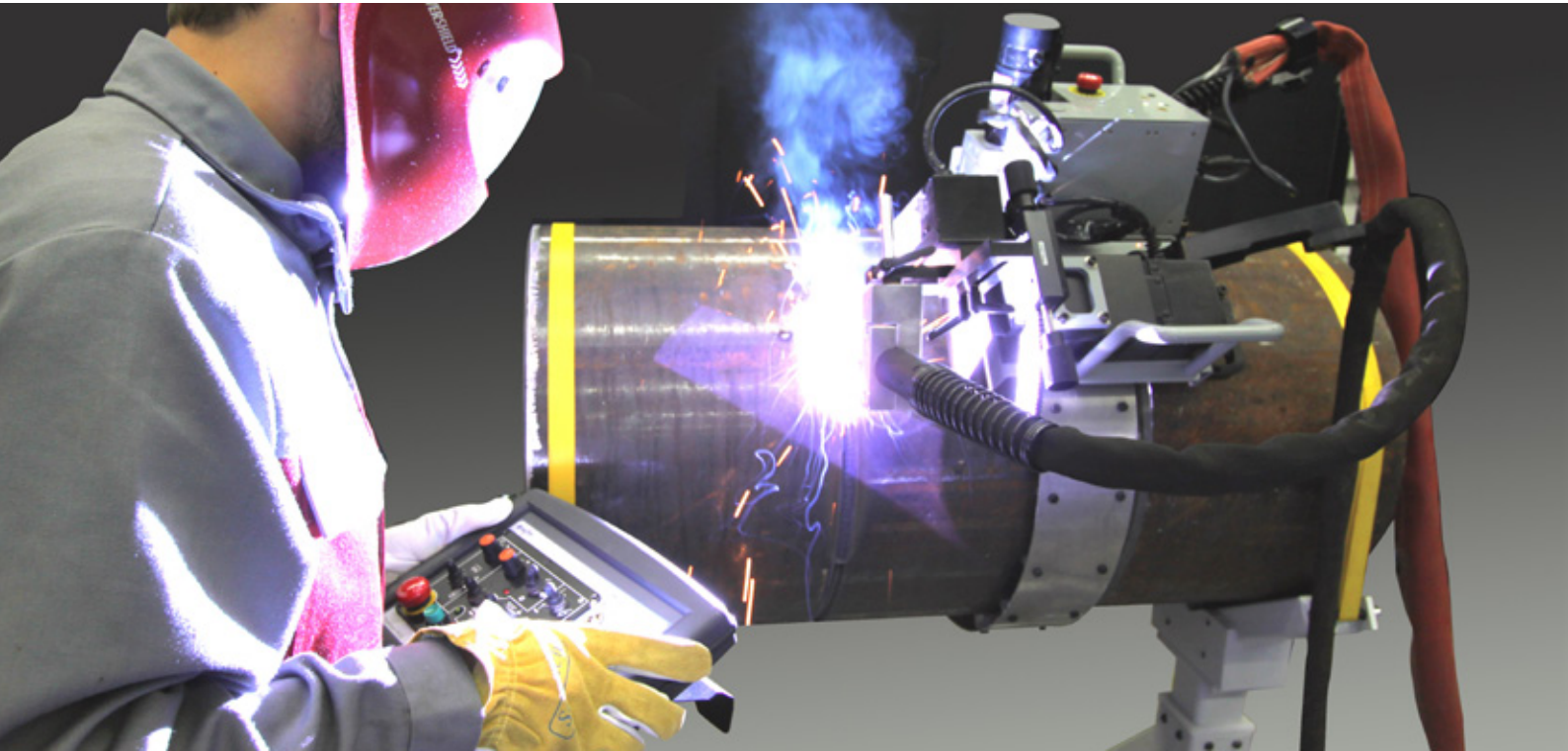
pipeTruck RC3 remote control

- Standard remote control gives the operator the space he/she needs to observe the entire orbital seam creation process and to make corrections

pipeTruck applications

- The alpha Q achieves ultimate perfection in root, fill and final pass welding
- Pipe welding in any position
- Root welding with pipeSolution and solid wire
- Fill and final pass welding with pulse or standard arc and flux cored and solid wire
- Wire diameter: 1.0 to 1.6 mm
- Pipe diameters of DN300 and up
- Track systems for all pipe sizes from DN300 and up
- Pipes can be welded automatically and in high quality in all wall thicknesses
- Permissible misaligned edges:





Scope of delivery

- The pipeTruck system comes fully ready to weld:
 - alpha Q multiprocess MIG/MAG welding machine
 - One or two wire feed units
 - EWM AMT automated welding torch with wearing parts set
 - pipeTruck orbital pipe welding carriage with transport case
 - Control unit for the pipe welding carriage
 - Remote control for welding machine and pipe welding carriage
 - Welding consumables
- The system also includes a linear oscillator with individually adjustable weave width and weld joint centerline adjustment.
- Bands made of non-rusting steel with quick connect mounting and adjustable feet
- EWM services: Commissioning, welding parameters, training, support in the creation of welding instructions and with welding process qualification



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