Automated construction of steel tanks
Mechanical montage of steel tanks, steel sheet assembling (ongrowing) method
Steel tank construction in Russia: History and experience
Applied construction methods: Traditional 1 (steel sheet assembling)

- Separate steel sheets produced at the steel plant are transported to the construction site
- Assembling of each ring with application of heavy lifting vehicles

Each sheet is lifted and assembled by manual welding

Application of building frames and heavy lifting vehicles
Applied construction methods: Traditional 2 (steel roll assembling)

- Pieces of the future tank wall are welded throughout the tank height at the steel plant
- Basically – 2 wall pieces (1/2 of the tank wall)
- Half-wall is rolled for transportation to the construction site
- Special heavy transport vehicles applied

Delivered steel rolls are unfolded by heavy construction vehicles up to the required geometry and installed to the prepared bottom

Unfolded half-wall constructions are assembled
YouTube link: https://www.youtube.com/watch?v=8pJ4fRm9KXQ
Mechanical montage of steel tanks, steel sheet assembling (ongrowing) method

Black steel, Stainless steel

- Steel coil
- Profiling machine
- Installation frame
- Tank wall
- Metal profile and welding seam / joint
- Welding equipment
- Control system
Pilot tank project: Day 1

Equipment installation
Pilot tank project: Day 2

Growing of 2-3 belts
Pilot tank project: Day 5

Roof installation
Pilot tank project: Day 8

Growing of 8 belts
Pilot tank project: Day 11

Growing of 12 belts
Pilot tank project: Day 14

Completion: Placement on the basement
Contact details

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