Shaft Formwork Solutions by RSB
RSB Shaft Formwork Systems

Shaft Formwork

✓ Free of through-wall ties
✓ Climbing system up to 4 meters per day (manually, electrically or hydraulically)
✓ Integrated work and safety scaffolding
✓ Crane-independent climbing
✓ High dimensional accuracy and all diameters possible
✓ Single-face or inner and outer formwork
RSB Shaft Formwork Systems

RSB System: “Formwork with mast climbing working platform“

- Construction process in 3 steps

Formwork is positioned and ready to pour concrete

Placing of Concrete from upper working platform and also the reinforcement for the next section

Formwork is lifted to the next step and ready for the next concrete pour
RSB Shaft Formwork Systems

Formwork with mast climbing working platform

✓ Advantages:
  • No through-wall ties to the excavation (self supporting system)
  • Self-climbing system
  • Sealing will stay 100% water proof
  • Short formwork lifting times
  • Perfect accessibility and working conditions from each side of the formwork
  • Easy handling of the electrical lifting system due to synchronized control
  • No additional scaffolding for reinforcement works needed
  • Crane capacities can be reduced to a minimum (self climbing formwork)
  • Easy and fast assembly
RSB Shaft Formwork Systems

✓ RSB System: “Formwork with strand jack climbing working platform”

- Construction process in 3 steps

Formwork is positioned and ready to pour concrete

Placing of Concrete from upper working platform and also the reinforcement for the next section

Formwork is lifted to the next step and ready for the next concrete pour
RSB Shaft Formwork Systems

Formwork with strand jack climbing working platform

✓ Advantages:
  • No through-wall ties to the excavation (self supporting system)
  • Self-climbing system
  • Sealing will stay 100% water proof
  • Short formwork lifting times
  • Perfect accessibility and working conditions from each area of the formwork
  • Easy handling of the electrical lifting system due to synchronized control
  • No additional scaffolding for reinforcement works needed
  • Crane capacities can be reduced to a minimum (self climbing formwork)
  • Easy and fast assembly
  • Lifting height and capacity nearly unlimited because of the strand jacks
RSB Shaft Formwork Systems

✓ RSB System: “Working platform“

Adjustable to almost any diameter because of the innovative building block system

Minimal number of strand jacks necessary
Example: 4 pcs up to 17m diameter

Suspension at the shaft top can be done individually and customized
RSB Shaft Formwork Systems

Working platform

✔ Advantages:
  • Robust construction because of less mechanical parts
  • Fast lifting and lowering process - up to 40 meters per hour
  • Lifting height nearly unlimited because of the use of strand jacks
  • All diameters possible
  • Perfect shaft accessibility through 2 or more working levels at the same time
  • Easy handling of the electrical lifting system due to synchronized control
  • No additional crane needed
  • Easy and fast assembly
  • All kind of suspension at the shaft top are possible
RSB Shaft Formwork Systems

✓ RSB System: „Lifting Cross“

Lifting of formwork and working platform through the construction crane
RSB Shaft Formwork Systems

Lifting Cross

Advantages:
• No through-wall ties to the excavation (self supporting system)
• Sealing will stay 100% water proof
• Short formwork lifting times
• Perfect shaft accessibility through 2 or more working levels at the same time
• Easy handling of the electrical lifting system due to synchronized control
• Robust construction because of less mechanical parts
• No additional scaffolding for reinforcement works needed
• Easy and fast assembly and disassembly
RSB Shaft Formwork Systems

✓ Examples of formwork with self-climbing working platform

- Project in Luxembourg
  9 Shafts with inner lining and different flat shapes

- Project in Germany
  Shaft with integrated elevator shaft

- Project in Amsterdam
  Formwork height of 4 meters
RSB Shaft Formwork Systems

✔ Example of RSB working platform

Project in Austria
170m high shaft
Diameter: 6.3m

Project in Austria
70m high shaft
Diameter: 17m
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