

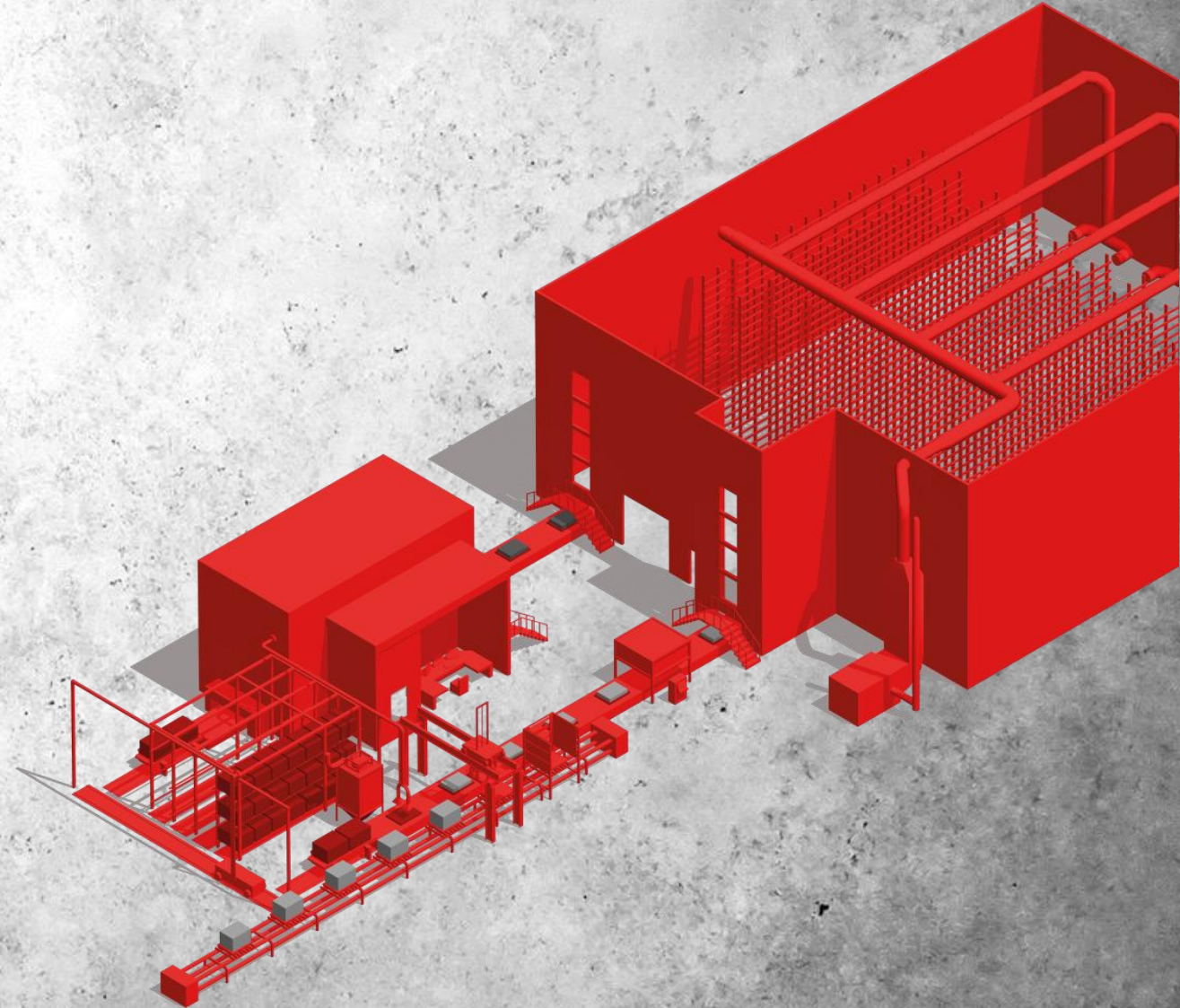
FOR BEST CONDITIONS.
SINCE 1900.

ROTHO®

CONCRETE CURING SYSTEM

ProCure

365 Days –
One climate



**FOR BEST CONDITIONS.
SINCE 1900.**

Concrete Curing System

ProCure

**The most advanced
curing system**

365 days – one climate

ROTHO®



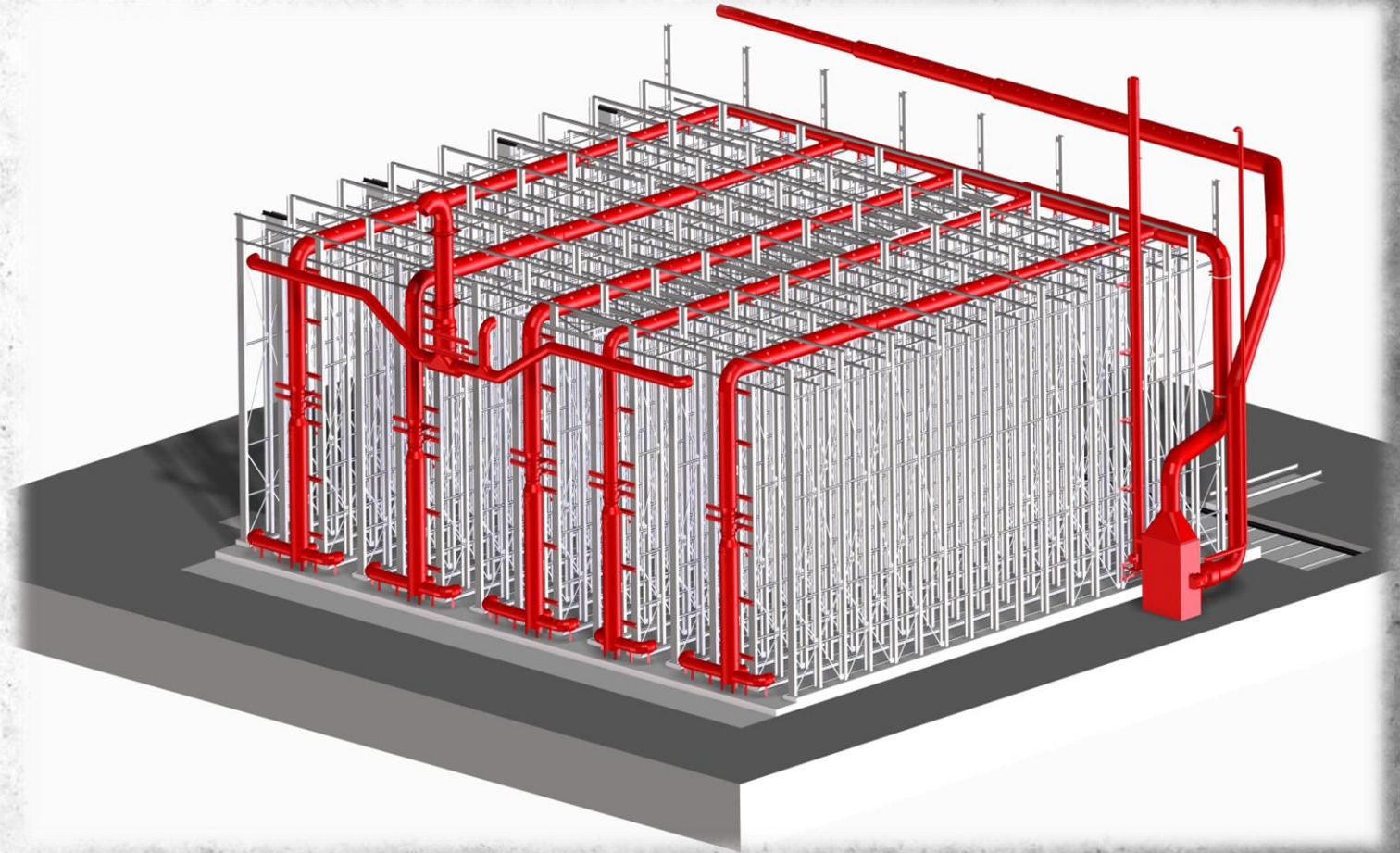
- Resistant concrete surfaces
- More consistent and brighter colours
- Lower primary and secondary efflorescence
- Higher density concrete surfaces
- Less cement
- Faster early strength

FOR BEST CONDITIONS.
SINCE 1900.

OVERVIEW STANDARD SYSTEM

How it works

ROTHO[®]



FOR BEST CONDITIONS.
SINCE 1900.

CLIMATE CONTROL by ProCure

Reduce your curing time with heat and
humidity supply

Benefits:

- Zone wise control of temperature & humidity
- Long lasting aluminum ductwork
- Energy saving 2-Step-humidification
- Water treatment pump station, inclusive reverse osmosis plant
- Intuitive process control system

ROTHO[®]



FOR BEST CONDITIONS.
SINCE 1900.

WARM AIR GENERATOR

(standard solution)

Benefits:

- High quality warm air generator
- Inside housing, heat exchanger und burning chamber made of stainless steel
- Powder coated radial fan
- Operated by gas or oil

ROTHO[®]



FOR BEST CONDITIONS.
SINCE 1900.

WATER PUMP & TREATMENT STATION

(standard solution)

Benefits:

- Trouble-free humidification
- Low maintenance
- High quality water treatment station
- High pressure water pump with ceramic head for a long life
- Water-treatment-station monitored by process control
- Tested and ready for use

ROTHO[®]



FOR BEST CONDITIONS.
SINCE 1900.

WATER INJECTION

Benefits:

- Decentral two stage water injection.
Step 1 without supply of additional heat
- Extreme fine fogging
- Extreme fine fogging by water pressure of 70 bars
- Tight welded aluminum ducts



ROTHO[®]



FOR BEST CONDITIONS.
SINCE 1900.

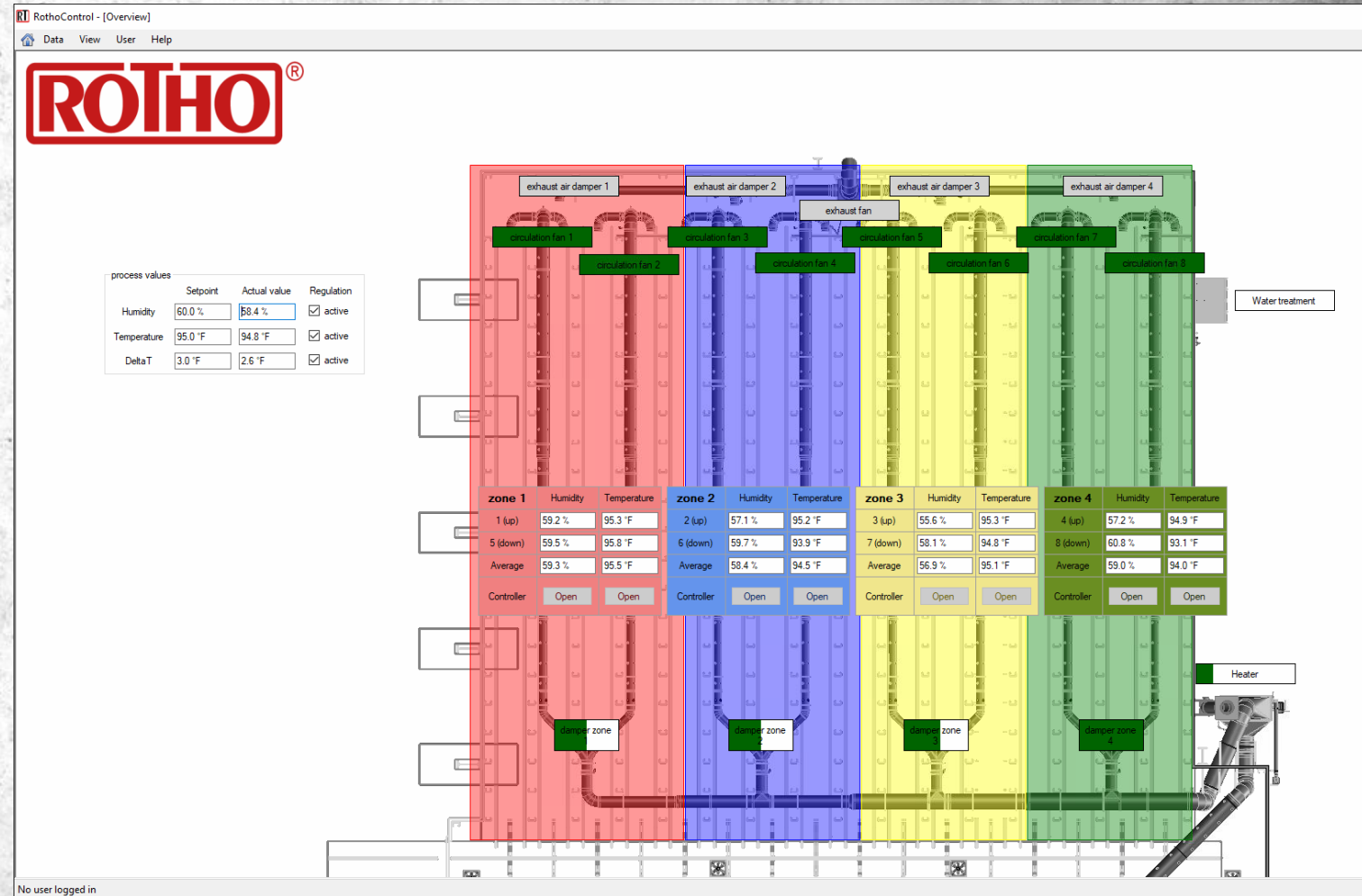


ROTHO-CONTROL

Operate your system via control PC

Benefits:

- Easiest operation of complex processes
- Worldwide online data access and ROTHO support
- Zone control for BIG chambers
- Limitation of user rights
- Historical data recording
- climate curve for each day adaptable



No user logged in

FOR BEST CONDITIONS.
SINCE 1900.

High humidity

Risks?

What does that mean for the system?

- Condensation?
- Mold?
- Corrosion?

ROTHO[®]



FOR BEST CONDITIONS.
SINCE 1900.

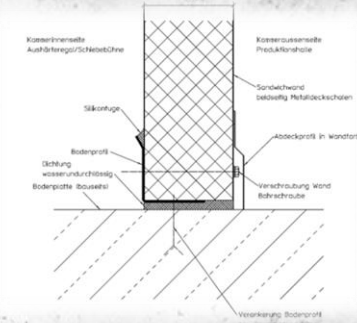
INSULATION / SEALING

Do it in a proper way !

Benefits:

- Lower energy losses
- Avoid thermal bridges
- No water leaks on the joints

ROTHO[®]



**FOR BEST CONDITIONS.
SINCE 1900.**

OPTIONS

Stainless steel doors

Benefits:

- Lower energy losses
- Corrosion resistant and long lasting

Heated door frames

Benefits:

- No condensate on the frames / floor
around the doors

ROTHO[®]



FOR BEST CONDITIONS.
SINCE 1900.

OPTIONS

Air Curtain

Benefits:

- Lower energy losses
- Lower air exchange

ROTHO[®]



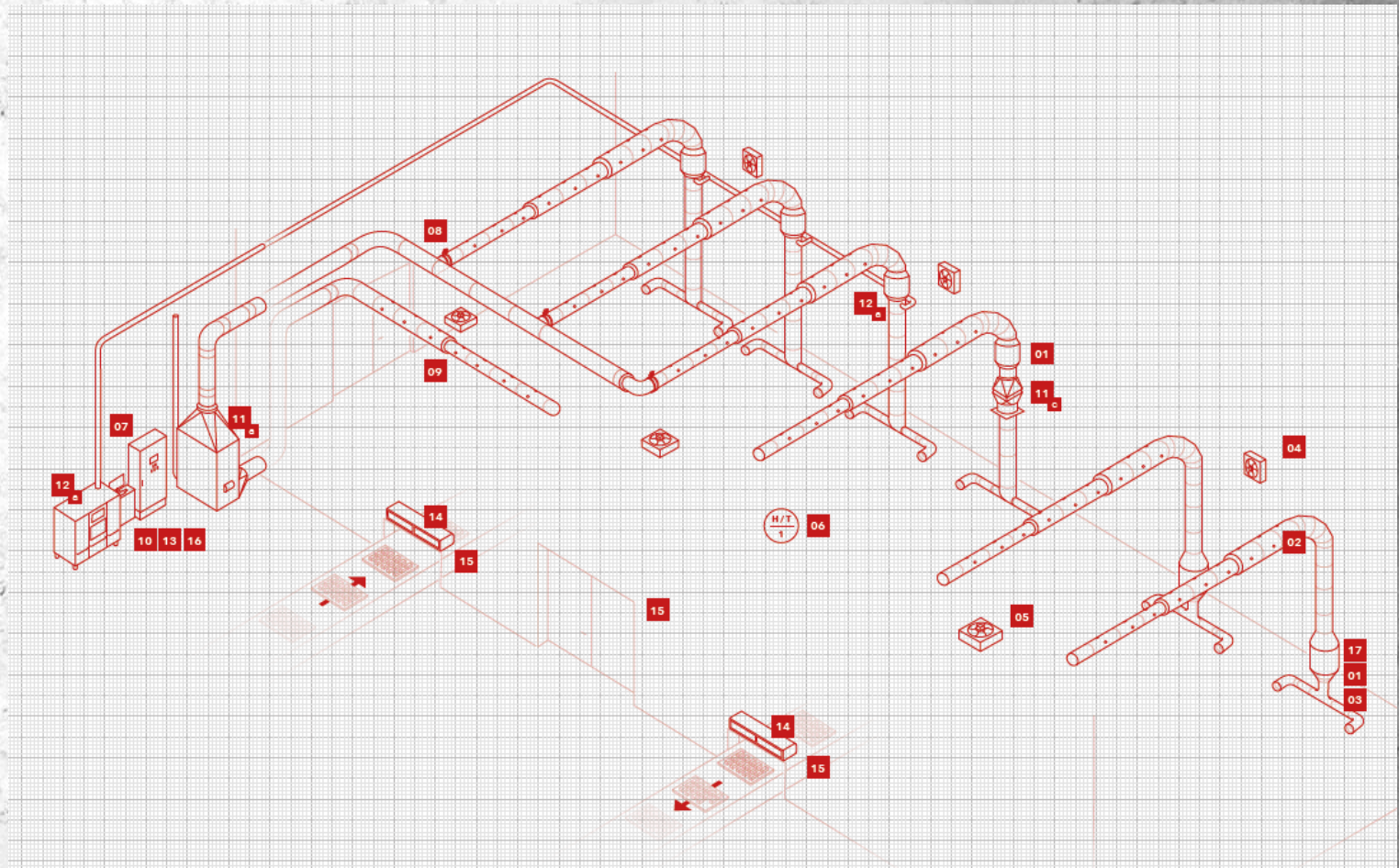
FOR BEST CONDITIONS.
SINCE 1900.

ROTHO[®]

SYSTEM OVERVIEW

Options for different energy carriers and chamber versions

- Warm water
- Electrical power



**FOR BEST CONDITIONS.
SINCE 1900.**

WARM WATER HEAT EXCHANGER

Benefits:

- Cost effective system
- Good temperature control
- Connected to warm water grid
(supplied by customer)

ROTHO[®]



**FOR BEST CONDITIONS.
SINCE 1900.**

ELECTRIC AIR HEATER

Benefits:

- Very fast heat supply
- Very good temperature control
- Easy to mount

Disadvantages:

- High energy costs
- Separate switchboard needed



ROTHO[®]

FOR BEST CONDITIONS.
SINCE 1900.

STEAM HUMIDIFIERE

Benefits:

- Compact system
- Direct steam production
- No water treatment required

Disadvantages:

- High energy costs
- Needs to be sheltered from curing atmosphere



ROTHO[®]

FOR BEST CONDITIONS.
SINCE 1900.

DATA SHEET PROCURE

- Design the curing system according to customer needs
- Easy to use data sheet
- Collect necessary data

Customer / Project:

Name:
Street:
Town/city:
Phone:
E-Mail:

ROTHO[®]
Robert Thomas
Metall- und Elektrowerke GmbH & Co. KG
Postfach 1820 • 57279 Neunkirchen
Hellerstraße 6 • 57290 Neunkirchen
Deutschland • Germany
Telefon: +49 (0) 2735/788-0
Telefax: +49 (0) 2735/788-559
E-Mail: sales@rotho.de
Internet: www.rotho.de



ProCure-Basic data:

Type of Curing rack:	in existing hall / Indoor <input type="checkbox"/>	Outdoor <input type="checkbox"/>
Type of curing system:	BIG chamber <input type="checkbox"/>	Single chamber <input type="checkbox"/> Double chamber <input type="checkbox"/>

Technical data:

Minimum temperature in the production hall		°C
Minimum temperature of the aggregates		°C
Desired hardening temperature		°C
Desired relative humidity in the curing chamber		%rH
Specification of the cement content in the concrete mix		Mass-%
Water / cement value		

Cement content: (indication of the percentage of cement classes in the cement mixture)

32,5 R; 42,5 N		%
42,5 R; 52,5 N; 52,5 R		%
Fly ash		%

Performance data:

Board size (L x W x H)		mm
Board weight		kg
Max. Concrete weight per board		kg
Ø Number of pallets		pieces/h
Max. concrete mass flow		t/h

Produktinformationen:

	L [mm]	W [mm]	H [mm]	Weight [kg]	Number per board
Block 1					
Block 2					
Pavers 1					
Pavers 2					

Signature: _____ Place: _____ Date: _____

FOR BEST CONDITIONS.
SINCE 1900.

THE ASSEMBLY

Option 1: supervisor assembly

Option 2: ROTHO complete assembly



ROTHO[®]



Global on-site installation teams

**FOR BEST CONDITIONS.
SINCE 1900.**

THE ASSEMBLY

What we need to start at site:



Forklift



Telehandler



**cordless screwdriver
& Battery**



drillmachine



impact wrench



hammer drill

- **Foundation +0 / -10 mm**
- **Steel hall in place**
- **Isolation in place**
- **Tools according to our tool list**
- **Helpers ready to start (number / qualification)**
- **Electrical power**
- **Water supply @ commissioning**
- **Gas / Oil supply @ commissioning**
- **Internet @ commissioning**
- **Workplace safety**
- **Pictures of the construction side before assembly start**

ROTHO®

FOR BEST CONDITIONS.
SINCE 1900.



Thank you very much for interest !