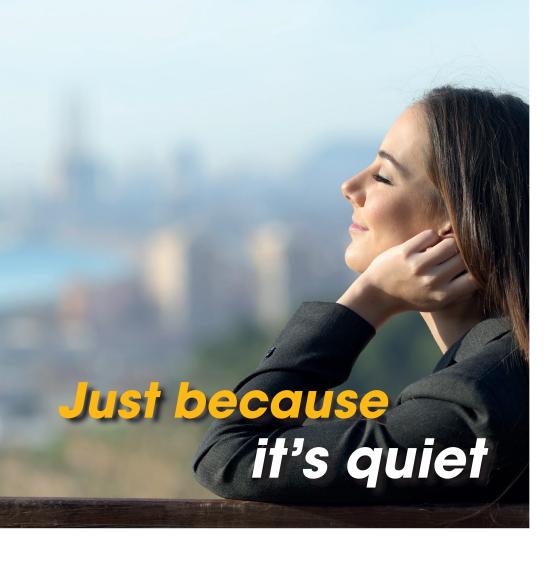


BAUER CUBESYSTEM



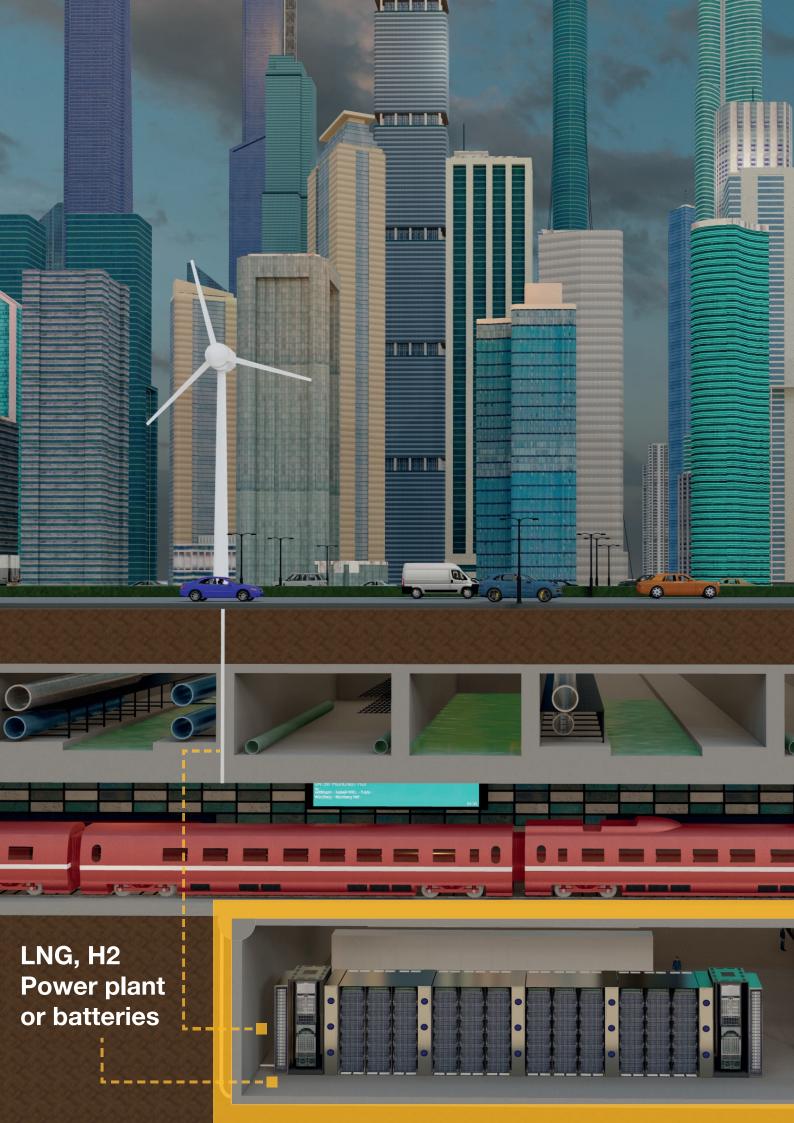




The BAUER Cube System generates less dust and makes it easier to contain noise, benefiting everyone working on site and also living nearby. Being electric driven, and designed in a cubical format, handling on site is optimized and less construction vehicles are required.



It's busy, it's crowded, it's narrow - we understand the challenges of confined construction spaces. Whether your project is for urban redensification, or other situations like working in restricted headroom, they all can lead to a headache when looking for the right equipment. Putting all our experience to work, we designed the BAUER Cube System especially for these applications.





Revolutionary in a new format the BAUER **Cube System**

GREAT THINGS CAN BE CREATED UNDERGROUND. WHILE LIFE ON THE SURFACE GOES ABOUT ITS USUAL BUSINESS, OR IN OTHER WORDS: THE FUTURE IS HERE.

Our motivation to develop the BAUER Cube System was, and still is, to provide a sustainable technology which allows building where you haven't been able to build before. A system that is quiet and compact by design in order to ease transport and on-site handling, but also makes use of existing infrastructures if needed.

Unique points of the BAUER Cube System

- Minimal footprint
- Suitable above and underground
- Simple construction site set-up
- Compatible with low headroom
- Minimal emissions
- Low impact on traffic and surroundings
- Versatile in application

The new options provided by the BAUER Cube System, especially when applied underground, are impressive. One application for the new technology is to create underground spaces below populated urban areas or existing infrastructure. Equally, the system can be utilized above ground taking advantage of its compact dimensions when, for example, working under bridges, in traffic tunnels or on narrow roads.

BAUER Cube System

Whether you want to create space

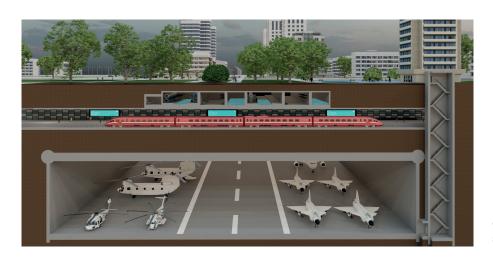
for...



underground parking areas below existing parks, buildings,



individual space underground, freeing up above ground areas which can be renatured. Space below the surface which could be used for railway stations, underground shopping, logistic stocks, server rooms, battery storages and so on.



huge areas for storage or parking lots for aircrafts or helicopters for example. Access shafts allow easy entry and exit.

versatile in applications

or you want to construct diaphragm walls...



under bridges, rock overhangs, power cables, in buildings or at other sites with limited working height.



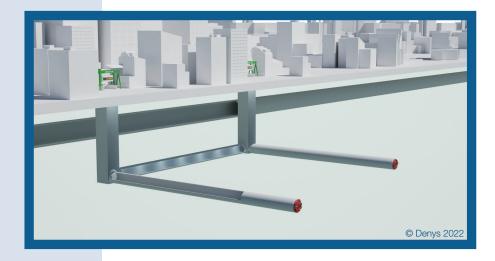
at sites with limited space or requirements to cause as little impact on traffic as possible. The modular design of the slurry handling equipment allows individual arrangements to comply with the specific needs.



to enhance or restore existing dykes, which might have limited load bearing capacity or narrow dam crests.

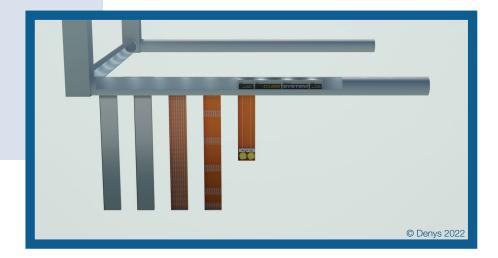
STEP 1

Start with two tunnels of almost independent length and bring two Cube Systems into the tunnels via the shafts.



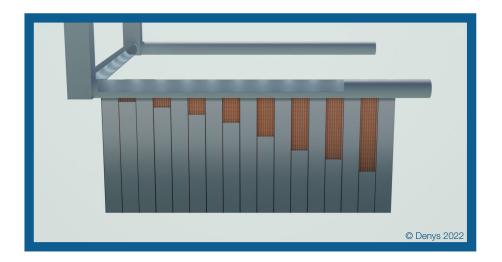
STEP 2

Cutting > reinforcement > filling with concrete - traditional diaphragm wall construction method.

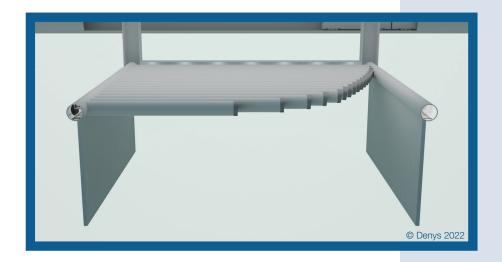


STEP 3

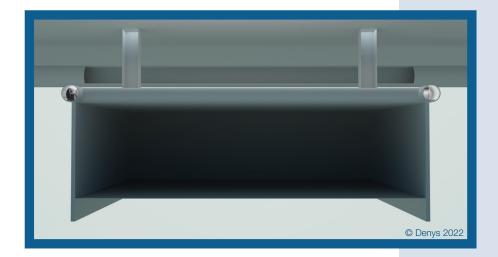
Overlap panels to have a sealed and very stable wall.



How the BAUER Cube System is applied

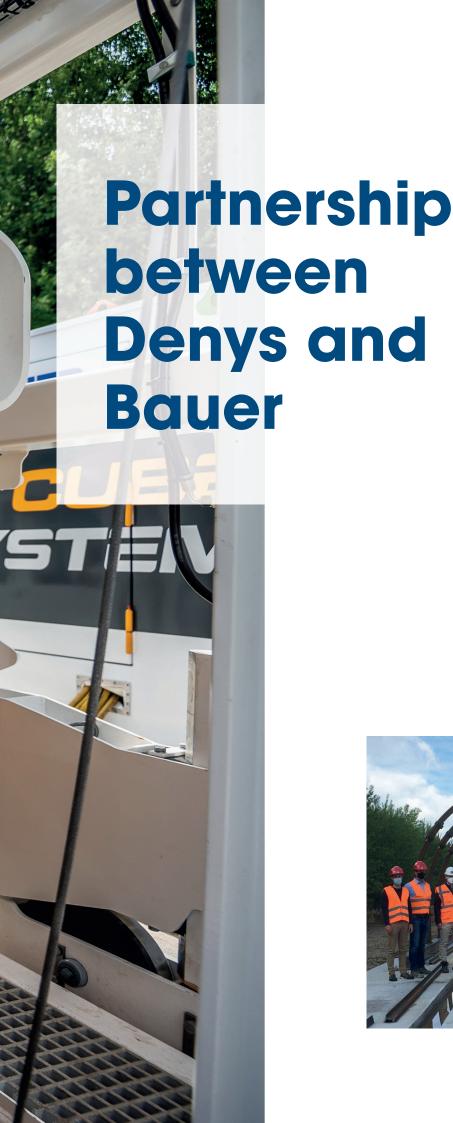


STEP 4Construct the ceiling.



STEP 5Excavate to create the space and build the concrete floor.



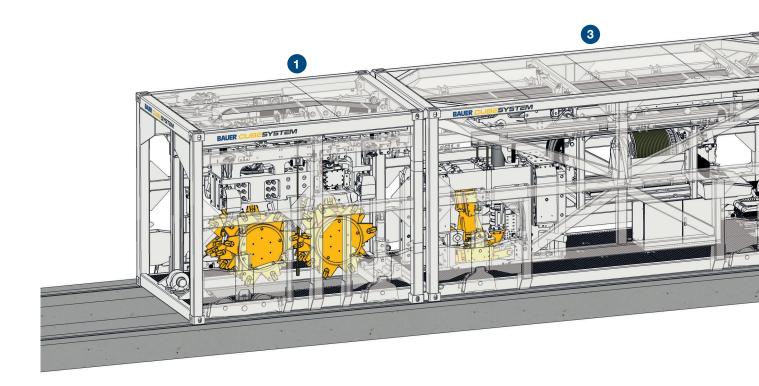






A combined experience resulting from more than 60 years of experience in tunneling and foundations works, 37 years of experience in trench cutting and more than 350 units in operation worldwide.





Technical Data

Have a look at the technical specifications of our BAUER Cube System, which consists of six containers in total.

Cutter Cube

Complete trench cutter system consisting of three 20 ft containers:

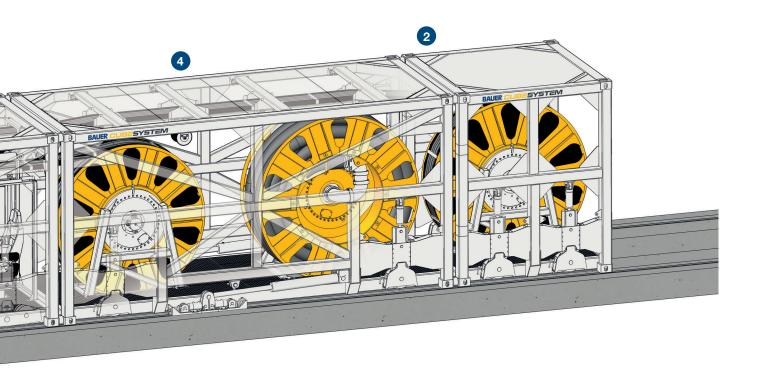
- Milling Cube (separated for setup)
 - Cutting unit with cutter wheels and gearboxes
 - Hydraulic hose drum for cutting unit
- Pump Cube
 - Pumping unit
 - Cutter main winch
 - Operators seat with B-Tronic screens
- HDS Cube
 - Mud hose drum
 - Hydraulic hose drum for pumping unit

Other

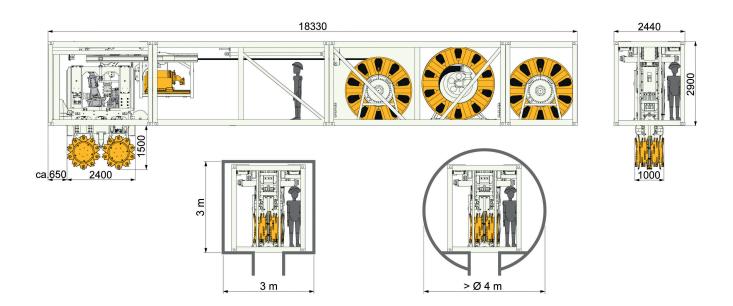
- Retracting winch for installation of hydraulic hose bundle and mud hose
- CE certification
- Self moving on rails with cylinders

Optional

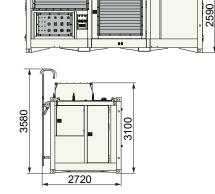
- CSC certification containers
- Modification kit for reducing pre-excavation depth from 2.5 m to 1.5 m
- Reinforcement and Concreting Cube for installation of reinforcement and concreting (as per data sheet)

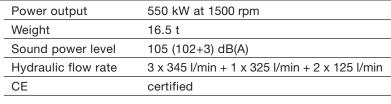


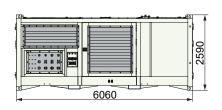
| Technical Specification | |
|---|------------------------|
| Weights and Dimensions | |
| Transport dimensions, L x W x H | 6060 x 2440 x 2900 mm |
| Milling Cube weight | 22 t |
| Pumping Cube weight | 19 t |
| HDS Cube weight | 12 t |
| Dimensions of complete plant, L x W x H | 18330 x 2440 x 2900 mm |
| Weight of complete plant | 56 t |
| Power Requirements | |
| Power input | approx. 1000 kVA |
| Supply voltage | 690 V |
| Frequency | 50 Hz |
| Trench Cutter | |
| Height | 3600 mm |
| Panel length | 2400 mm |
| Panel width | 640–1000 mm |
| Max. trench cutter weight | 13.1–14.8 t |
| Max. cutting depth | 40 m |
| Max. hook load | 20 t |
| Max. winch speed | 9 m/min |
| Mud pump | |
| Mud hose diameter | 127 mm/5 in |
| Delivery rate | 200–300 m³/h |
| Cutter Gear Box 2x BCF 5 | |
| Max. torque | 2 x 46 kNm |
| Speed of rotation | 0–30 rpm |
| Other | |
| Max. inclination of working platform | 3° |



Power Cube - HE 1400 C In Operation Power output 550 kW at 1500 rpm Weight 16.5 t Cound reversions 105 (100 c) dP(0)

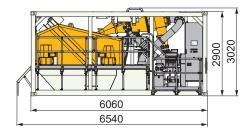


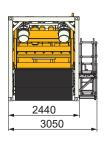






| Separator Cube - BE 300 C | | |
|---------------------------|-----------|--|
| Max. capacity | 300 m³/h | |
| Cut point d50 | 30 μm | |
| Weight | 12.0 t | |
| CSC | optional | |
| CE | certified | |
| | | |





Concreting Cube

Container for installation of reinforcement and concreting with tremie method:

- Mechanism for holding and lowering reinforcement cages
- Rack with tremie pipes

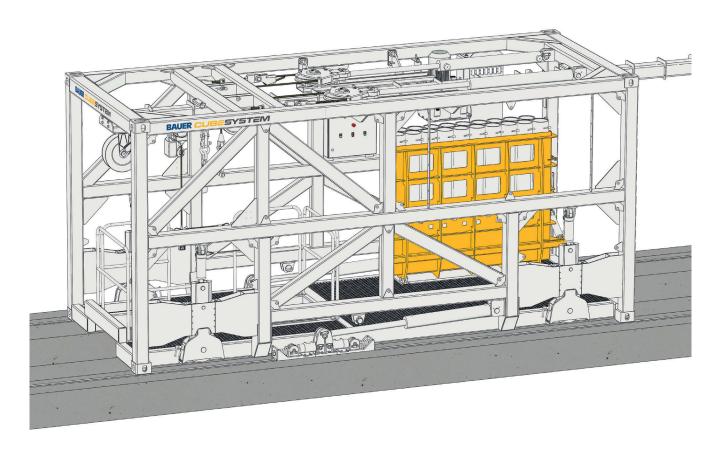
| Technical Specification | |
|--|-----------------------|
| Weights and Dimensions | |
| Dimensions L x W x H | 6060 x 2440 x 2900 mm |
| Weight | 8.9 t |
| Power Requirements | |
| Power input | 25,6 kVA |
| Supply voltage | 400 V |
| Frequency | 50 Hz |
| General | |
| Max. height of reinforcement cage | 1860 mm |
| Capacity of tremie pipe rack | 19 St/pcs |
| Length of tremie pipes | 1500 mm |
| Max. lifting capacity of main winch | 15 t |
| Max. lifting capacity of auxiliary winch | 1 t |

Other

- CE certification
- Self moving on rails with cylinders

Optional

- CSC certification containers







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