

Special Deep Foundation Compendium Methods and Equipment

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Volume I: Piling and Drilling Rigs (LRB Series)

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Brief description

The methods and equipment technology employed in the deep foundation industry have improved rapidly in recent years. The ingenuity of civil engineers, the results of new scientific research and the ongoing and new developments in machine technology have all led to the acceleration of this process.

Applying technologies that have become very complex, and selecting the suitable machinery and equipment, demand ever more specialized knowledge and practical experience. It has become very difficult for users and manufacturers of special deep foundation machinery to maintain an overview of the level of technology in the sector.

Both volumes provide a comprehensive overview of the special deep foundation applications, equipment and processes. They are intended as an aid to planning and implementation, and aim to help practitioners, public authorities, engineering companies and students to broaden and complete their level of knowledge. They are targeted primarily at occupational engineers and applications in the field.

The individual chapters discuss manufacturing techniques and potential applications, along with the associated machine components. The specifics of each method and machine technology are examined in detail.

Since the first volume of the compendium on Special Deep Foundation was published in March 2008, it has become a standard reference book. We are about to finish Volume II which certainly meets the standard set by Volume I.

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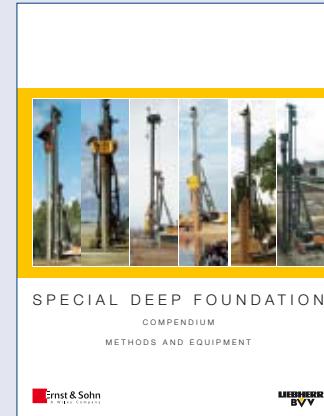
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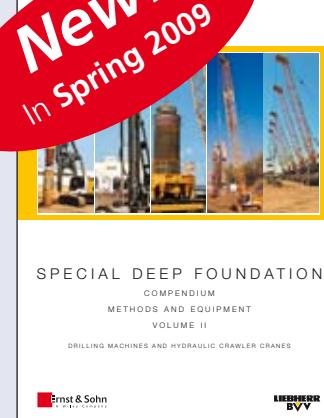
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Volume I Piling and Drilling Rigs (LRB Series)

published in March 2008

New!
In Spring 2009



Volume II Drilling Machines and Hydraulic Crawler Cranes (LB and HS Series)

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Content Overview

Volume I

General:

- Vibrating
- Vibro-drilling
- Double rotary drilling
- Pressing
- Impact pile driving

Description of methods:

- Vibrating sheet pile profiles and steel beams
- Vibrated cast-in-place pile · Vibration of steel pipes
- Horizontal sealing slabs
- Thin slurry wall (vibrated beam slurry wall)
- GEWI piles
- RV pile and RI pile
- Deep compaction · Vibration columns · Vibro-replacement · Geotextile pile
- Drilled pile using the double rotary drilling method · Double rotary ("front-of-wall") drilled pile
- Augered piles · Partial and full displacement augered piles
- High-pressure injection
- Wet-mix pile/MIP pile · Dry-mix pile · CSV method
- Well drilling
- Predrilling
- Cast-in-place full displacement drilled piles · Steel pipe piles produced with the vibro-drilling method
- Impact driving of steel sheet pile profiles, steel beam profiles and steel pipes
- Impact driving of precast reinforced concrete and prestressed concrete driven piles, wooden piles
- Pressing in sheet pile profiles using the pressing method

Volume II

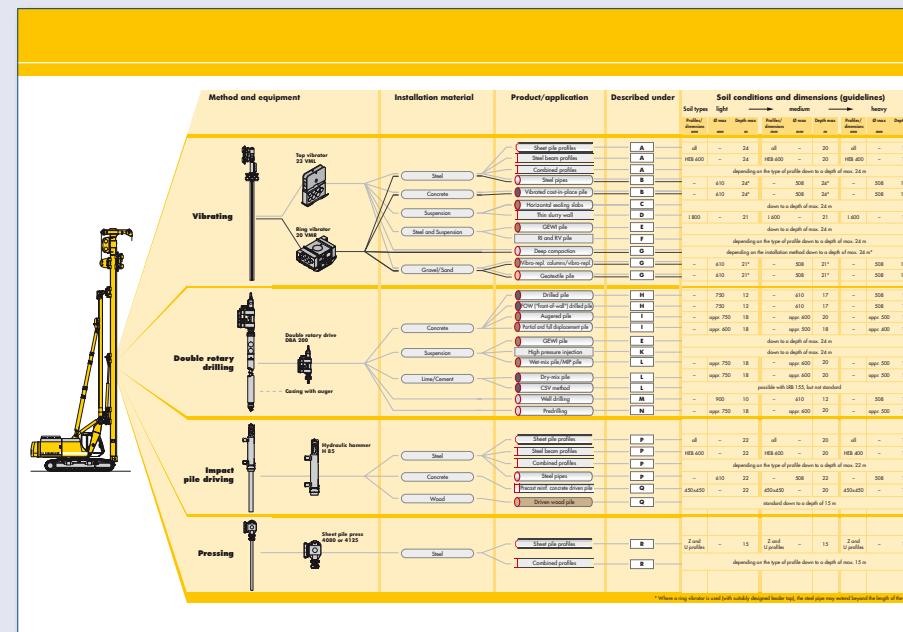
General:

- Kelly drilling
- Single rotary drilling
- Double rotary drilling
- Grab excavation
- Slurry wall
- Vibrating
- Impact pile driving

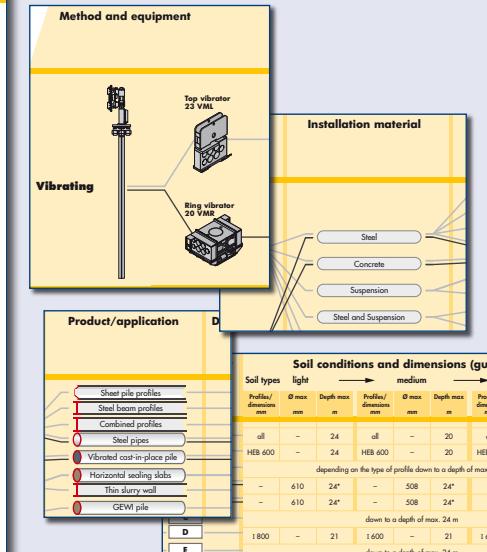
Description of methods:

- Drilled pile
- Augered piles · Partial and full displacement augered piles
- Steel beam profiles and steel pipes in bore holes
- Sand- and gravel piles, Soil exchange
- Predrilling
- Well drilling
- GEWI piles
- High-pressure injection
- Wet-mix pile/MIP pile
- Slurry wall
- Impact driving of steel profiles
- Deep compaction
- Impact driving of steel sheet pile profiles, steel beam profiles and steel pipes
- Impact driving of precast reinforced concrete and prestressed concrete driven piles
- Dynamic soil compaction

Examples of layout & design in Volume I und II



It is easy to find your way around using the pull-out pages with a general overview.



Glossary			
Term / Product / Application	See	Operation	Described under
Driven pile	Driven pile	Driving	H
Driven pile	Driven pile	Driving	H
Driven well	Well drilling	Driving	M
Driving pile	Driving pile	Driving	H
Driving rod	Driven pile	Impact driving	H
Driver bit	Driver bit	Impact driving	H
Drive pipe	Driver bit	Impact driving	P
Driven pile	Driver bit	Impact driving	P
Driven pile	Steel beam profiles, steel pipes	Driving	P
Dry-mix pile	Steel pipes	Driving	P
Ductile driven pile	Ductile pile	Impact driving	P
Ductile iron pile	Ductile pile	Impact driving	P
Ductile iron pile	Steel pipes	Impact driving	P
Ductile iron pile	Steel pipes	Impact driving	P
Dynamic pile	Dynamic pile	Impact driving	P
Exciter	Vibrator	Vibrating	Vibrating
External impacting process	Steel piles	Impact driving	P
F and FOW	Sheet pile	Vibrating	Vibrating
F and FOW	Sheet pile	Impact driving	A, P
FOW (front-of-wall) drilling	FOW (front-of-wall) drilled pile	Driving	H
FOW (front-of-wall) pile	FOW (front-of-wall) drilled pile	Driving	H
Frost	Hammer	Impact driving	H
Frequency	Impact driver	Impact driving	H
Full displacement cast-in-place drilled pile	Full displacement cast-in-place pile	Vibrating	Vibrating
Full displacement drilled pile	Full displacement drilled pile	Vibrating	Vibrating
Geotextile hose	Geotextile hose, geotextile pile	Driving	G
Geotextile hose	Geotextile pile	Driving	G
Geotextile hose	Geotextile pile	Driving	G
Geotextile hose	Geotextile hose, geotextile pile	Driving	G
Geotextile stocking	Geotextile pile	Driving	G
GEWI pile	GEWI pile	Vibrating, drilling	E
Gravel column	Gravel pile, vibration replacement column	Vibrating	E
Gravel drain	Gravel pile	Vibrating	G
Gravel pile with tendon	Gravel pile	Vibrating	G
Groundwater well	Groundwater well	Driving	M
Hammer	Hammer	Impact driving	D
Impact hammer	Impact hammer	Impact driving	K
High-pressure injection	High-pressure injection	Driving	X
High-frequency vibrator	Vibrator	Vibrating	K
High-pressure soil stabilization/consolidation	High-pressure injection	Vibrating	K
Hollow stem auger	Augered pile	Driving	I
Horizontal sealing slab	Augered pile	Driving	C
Hydraulic free-fall hammer	Steel beam profiles	Impact driving	A, P
Impact hammer	Impact hammer	Impact driving	A, P
HZ pile	Steel beam profiles	Vibrating, impact driving	A, P
HZ wall	Combined wall	Vibrating, impact driving	A, P

The glossary lists definitions, cross-references and terms.



Illustrations help visualize complex applications and technologies.

