MACHINES AND EQUIPMENTS FOR PILE AND DRILLING WORKS

(GET GROUNDING)

PILE DRIVER:	LIEBHERR *LRB-255*

TECHNICAL SPECIFICATION

** HD under carriage:*	LRB 255 B7
** Drilling drive torque:*	1st gear – 250 kNm 2nd gear – 125 kNm
** Drilling drive speed:*	1st gear – 20 rpm 2nd gear – 40 rpm
	80 t
** Max operating weight:*	24 / 27 / 30 m
** Leader length:*	300 kNm
** Max torque:*	45 t
** Max pull/crowd:*	Mercedes-Benz
** Engine model:*	LOM 444 LA 605 kW at 1900 rpm



Note:	*Made in Germany*

PILE DRIVER:	**SUMITOMA *LS-108BJ-3P***

TECHNICAL SPECIFICATION

* *Type:*	LS-108BJ-3P
* *N of machine:*	LS-10 122
* *Rope speed of lifting hook,*	
- Metre/minute, max/min:	46,5 / 15,3
* *Rope speed of lowering hook,*	44,4 / 14,6
-Metre/minute, max/min:	
* *Rope speed of boom lift,*	47,0 / 15,5
-Metre/minute, max/min:	
* *Rope speed of lowering boom,*	5,6 / 0,7
-Metre/minute, max/min:	3,2 / 1,7
* *Swing speed,*	120 Litr/rate
-Rates per minute, max/min:	T 5 31 m
* *Rated value:*	10 t
* *Copper:*	25 m
* *Length of the leader boom:*	
* *Weight of the pile:*	
* *Maximal length of the pile:*	



Note:	*Made in Japan*

HYDRAULIC PILING RIG:	**ENTEKO *E25 HD – PD 20***

TECHNICAL SPECIFICATION

Hydraulic Hummer Model:	TWINWOOD V100D
** CRAWLER*	
- Retractable crawler width:	3000-4500 mm
- Crawler width:	800 mm
- Counterweight:	5000 kg
- Weight machine:	48000 kg
** DIESEL ENGINE*	
- Type:	CAT 3116 DITA
- Max Power:	260/194 HP/kW
- Rated Power:	232/173 HP/kW
** HYDRAULIC SYSTEM*	
- Main piston pumps flow rate:	476 l/min
- Service pumps flow rate:	357 l/min
- Hydraulic system capacity:	1100 litres
** MAST*	
- Mast length:	20400 mm
** HAMMER WINCH*	
- Hammer Winch, Max line pull:	6000 kg
- PILE Winch, Max line pull:	10000 kg
** TOOLS*	
- Hammer max weight:	11000 kg
- Pile max weight:	8000 kg
- Pile max length:	12 m
** OVERALL DIMENSIONS*	*(traveling condition)*
- L x W x H:	12,3 x 3,0 x 3,18 m



Note:	*Made in Italy*

HYDRAULIC HUMMER:	TWINWOOD *V 100D*

TECHNICAL SPECIFICATION

**** CRAWLER*	
- Retractable crawler width:	3000-4500 mm
- Crawler width:	800 mm
- Counterweight:	5000 kg
**** HAMMER SERIA*	10
** OPERATING DATA:*	
- Max. Energy/Blow:	12000 kg-m
- Max. Stroke:	1200 mm
- Blowrate @1.20m stroke:	28 blow/min
** WEIGHTS:*	
- Ram	10100 kg
- Hammer (w/o drive cap):	13400 kg
- Drive Cap (Ø650):	580 kg
- Drive Cap (Ø820):	1197 kg
** DIMENSION:*	
- Length (w/o drive cap):	6200 mm
- Depth & Width:	745 x 765 mm
- Hammer to leader face:	580 mm
- Centre distance of guides:	320 – 410 mm



Note:	Made in Singapore

BORING MACHINE:	**IHC FUNDEX *F3500***

TECHNICAL SPECIFICATION

* *Engine:*	- DEUTZ, 6 cylinder turbo diesel engine, BF6 1013 235 HP / 173 kW
* *Optional Engine:*	- DEUTZ, 6 cylinder turbo diesel Engine,BF6 1013 280 HP / 205 kW
* *Hydraulic pump:*	- Rexroth, open hydraulic system,max. 300 ltr / min at 320 bar
* *Fuel tank capacity:*	- 800 ltr.
* *Hydr. tank capacity:*	- 800 ltr.
* *Hydraulic winches:*	- 3 x 12,5 ton (1x for leader movement) 1 x 5 ton (1x double sheaved for pile) 1 x 5 ton (1x for top JIB) 1 x 1,5 ton (1x optional as auxiliary)
* *Undercarriage:*	1 x 0,9 ton (1x for man-lift function) - D7 grade, track plates 900 mm,
* *Leader:*	hydraulic extendable from 3.500 till 5.000 mm - 21 mtr leader and the head remain installed during transport. The leader extension pieces are dismantled for transport. Max. installed leader is 40 mtr. Standard the machine is supplied with a leader of 35 mtr. The minimum
* *Horizontal stroke:*	installed leader length is 25 mtr. Leader front width: 760 or 720 mm.
* *Pulling force:*	- The horizontal stroke of the leader is 1.500 mm - Max. pull up force over the leader
* *Hydr. top crane:*	is 100 tons at 35 mtr. and 80 tons at
* *Transport weight:*	40 mtr. Leader - (JIB) lifting capacity 5.000 kg.
* *Inclination:*	- 72 - 74 tons (79 ton incl. front weight) - Backwards max. 1:3, Forwards max. 1:4



Note:	Made in Holland

HORIZONTAL DIRECTIONAL DRILLING RIG:	DDW-280
TECHNICAL SPECIFICATION	
*Engine model	-Cummins
*Type of engine	-Diesel
*Power , kWt	-140
*Length / Width / Height,mm	-7000 / 2300 / 2500
*Weight ,kg	-11000
Working parameters	
Maximum moment of rotation, Nm	-12000
Maximum rotation speed, rpm	-150
Tractive effort, t	-32
Drilling effort, t	-32
Rod entry angle	-0-22°
Drilling parameters	
Length of drilling rods, mm	-3000
Diameter of drilling rods, mm	-73
Maximum extension, mm	-1100
Maximum drilling length, m	-500



BORING MACHINE:	**CASAGRANDE *C6***

TECHNICAL SPECIFICATION

** MODEL*	C6
- Engine power, kW / HP:	96 / 129
- Overall with of crawler, mm:	2250
** MAST*	
- Stroke of rotary head, mm:	6000
- Extraction force, kN:	63,5
- Crowd force, kN:	35
** CLAMPS*	
- Diameters, mm:	60~305
** ROTARY HEAD*	
- Max. torque, Nm:	13500
- Speed range:	16~530
** WEIGHT*	
- In working condition, kg:	12700



Note:	*Made in Italy*

HORIZONTAL BORING MACHINE:	**OFFICINA SE.RI.CO *TO 1000***

TECHNICAL SPECIFICATION

** Working Pressure:*	160 – 250 kg/cm^2
** Machine Weight:*	1690 kg
** Connector Weight (1.50 m):*	315 kg
** Max. Drilling Diameter:*	Ø 1000 mm
** Dimension:*	
- Width:	1620 mm
- Length:	3450 mm
- Connector Length:	4950 mm



Note:	Made in Italy

VIBRATING PILE DRIVER:	PTC - 30 H1A

TECHNICAL SPECIFICATION

VIBRATOR	
* Vibrator type:	**30H1A**
* Power of vibrator:	193/262 kW/hp
* Eccentric moment:	30 m.kg
* Maximum frequency:	28/1680 Hz/rpm
* Max. centrifugal force:	946 kN
* Max. line pull capacity:	400 kN
* Vibrating weight:	2470 kg
* Total weight:	4120 kg
* Max amplitude:	23 mm
* Cooler	
- Length:	2.500 m
- Max Width:	0.740 m
- Centre Width:	0.330 m
- Height Without Clamp:	1.800 m
POWER PACK	
* Power pack type:	**350**
* Intermittent rating of engine DIN6271 or ISO 3046:	250/340 kW/hp
* Engine model:	CAT C9
* Max. rotation speed:	2200 rpm
* Max. oil flow:	370 l/mm
* Max. working pressure:	385 bar
* Hydraulic oil capacity:	310 l
* Fuel capacity:	450 l
- Length:	3.860 m
- Width:	1.600 m
- Height:	1.900 m
** Weight without fuel:*	4300 kg
CONNECTING HOSES	
* Standard length:	30 m
* Hose weight:	350 m





Note:	Made in France

HYDRAULIC CASING OSCILLATOR:	LEFFER *VRM 150 KL*

TECHNICAL SPECIFICATION

* *Type:*	VRM 150 KL
* *Stroke:*	450 mm
* *Lifting Force:*	1790 kN
* *Clamping Force:*	1560 kN
* *Rotation Angle:*	22°
* *Torque:*	1950 kNm
* *Operating Pressure:*	270 bar
* *Travel of Casing:*	285 mm
* *Weight:*	11 t
* *Max. Casing dia:*	1500 mm
* *Casing dia:*	800 mm
	900 mm
	1000 mm
	1200 mm
* *Width of Machine:*	2500 mm
* *Length of Machine:*	4070 mm
* *Min. Spacing:*	1420 mm
* *Width of Cradle:*	800 mm
* *Width of Machine Excavator Side:*	1250 mm
* *Cradle Path:*	450 mm
* *Axis Excavator Cradle:*	630 mm
* *Height of Machine Excavator Side:*	1100 mm
* *Height of Cradle Guide:*	500 mm
* *Height from Ground to top of Cradle Guide:*	1020 mm
* *Height of Machine:*	1600 mm
* *Length Attachment-Centre Pile:*	2800 mm
* *Max Length of Case:*	20 m
* *On board of Liebherr:*	LRB 255







Note:	Made in Germany

VIBRATING PILE DRIVER: MOVAX *SP-60-F*

TECHNICAL SPECIFICATION

MOVAX TYPE	
* Movax type:	**SP 60 F**
* Total weight:	1885 kg
* *Overall dimensions:*	
- H x W x Depth (mm):	2037 x 1002 x 1148
- Head room:	1810 mm
* *Pres. Relief setting max.:*	315 bar
* *Oil-Flow at 290 bar:*	180 l/min
* *RPM:*	3000 1/min
PILE SIZE	
* Pile width:	600-1200 mm
* Pile depth:	230 mm
* Vibraforce:	600 kN
* Basic Machine Weight Class:	25-30 ton
* Max Return Pressure:	5 bar
* Earth Impact:	Normal
* Piling Action:	Vibratory



Note: Made in Finland

DIESEL PILE HAMMER: DELMAG *D 46-32/33*

TECHNICAL SPECIFICATION

* *Type:*	D 46-32/33
* *Impact weight (piston), kg:*	4600
* *Energy per below, Nm:*	165600-70850
* *Number of bellows, 1/min:*	35-53
* *Force of explosion pressure on pile max., kN(kp):*	1695 (172830)
* *Suitable for driving piles, kg:*	3000-16000
* *Permissible rope Ø for deflector sheave of tripping device max.:*	38 mm
* *Consumption Diesel oil, l/h:*	16
-Lubricant, l/h:	1.5
* *Capacity for vertical piling:*	
-Diesel oil tank, l:	89
-Lube tank, l:	17
-Ether tank, l:	1.5
* *Weights, kg:*	8990
* *Overall dimensions, mm*	
-L x W x H:	5470 x 785 x 848



Note: Made in Germany

HYDRAULIC HAMMER:	MB - 700

TECHNICAL SPECIFICATION

* *Type:*	MB-700
* *Service weight:*	720 kg
* *Speed of stroke:*	370-820 min-1
* *Measurements*	
(Except lance) L x W x D:	1381 x 400 x 560 mm
* *Operation pressure:*	120-180 bar
* *Max. statistical pressure:*	200 bar
* *Diameter of lance:*	100 mm
* *Internal diameter*	
- Trunks:	20 mm
- Pipes:	20 mm

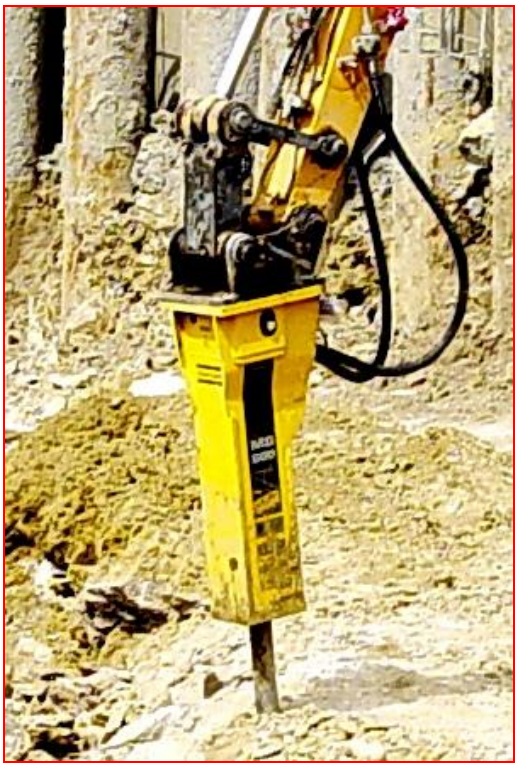


Note: Can operate under water. Made in Germany

HYDRAULIC HAMMER:	MB - 800

TECHNICAL SPECIFICATION

* Type:	MB-800
* Service weight:	820 kg
* Speed of stroke:	370-820 min-1
* Measurements (Except lance) L x W x D:	1381 x 400 x 560 mm
* Operation pressure:	120-180 bar
* Max. statistical pressure:	200 bar
* Diameter of lance:	100 mm
* Internal diameter - Trunks:	20 mm
- Pipes:	20 mm



Note: Can operate under water. Made in Germany

HYDRAULIC BREAKER:	SOOSAN SB70TS-P

TECHNICAL SPECIFICATION

* Model:	SB70
* Operating Weight:	1500 kg
* Operation Oil Capacity:	100-150 l/min
* Operation Pressure:	160-180 kg/cm^2
* Impact Rate:	350 – 600 BPM
* Hose Diameter:	25,4 mm
* Rod Diameter:	135 mm
* Applicable Carrier:	0.6 - 0.8 m^3
* Noise Level:	120 dB (LWA)
* Overall dimensions, - Length x Width:	2691 x 580 mm



Note: Can operate under water. Made in Korea