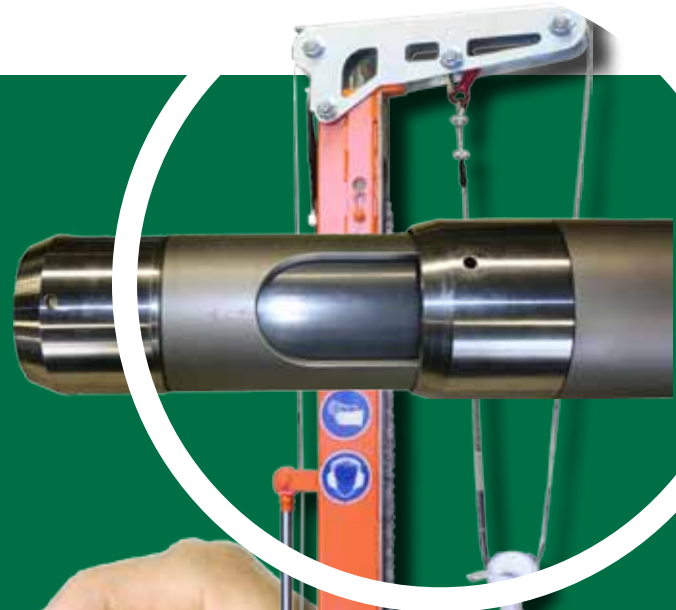
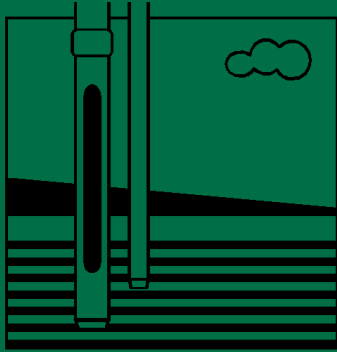


Carl Hamm

Röhrenwerk Kupferdreh Carl Hamm GmbH



Sounding Equipment



Carl Hamm Sampling System

The **Carl Hamm Sampling System** consists different Probing Systems with the help of Hollow steel rods are beaten or pressed into the ground. It enables a cost-effective and rapid investigation of the subsurface. At the bottom of the hollow steel rod different probes can be attached. These probes allow to remove ground water , soil, air or soil samples from the ground or to determine physical parameters. The measurements of these parameters can be performed continuously during the Sounding so that high resolution vertical profiles can be recorded.

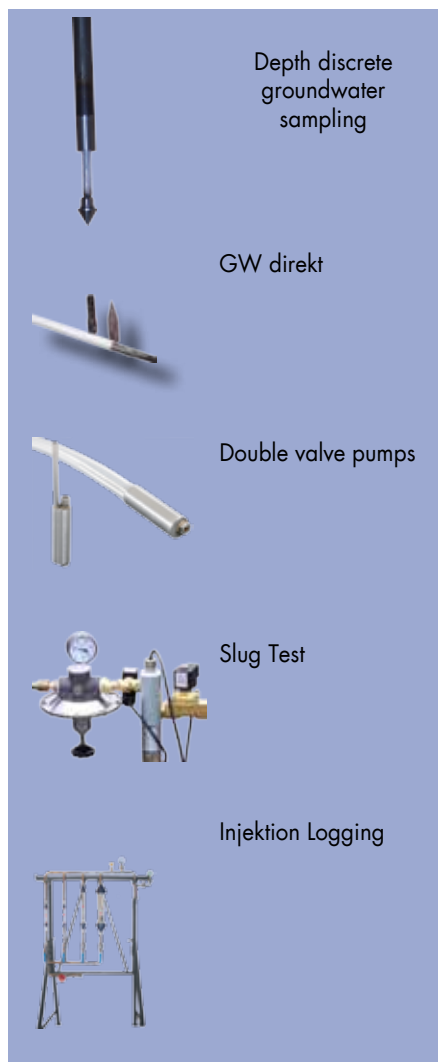


The MRZB

Soil



Water



Air





The MRZB

Our MRZB is a universal sampling device, Thanks to its modular design, it can be customized to your individual requirements
Basic Unit contains:

- Rubber-tracked undercarriage with folding mast
- ydraulically driven Driving unit 10 kg -
- Guide carriage, Guiding foot with rolls hinged
- Automatic weight release
- 2 extra weights á 20 kg
- Mechanical counter
- Levelling instrument

Optional:

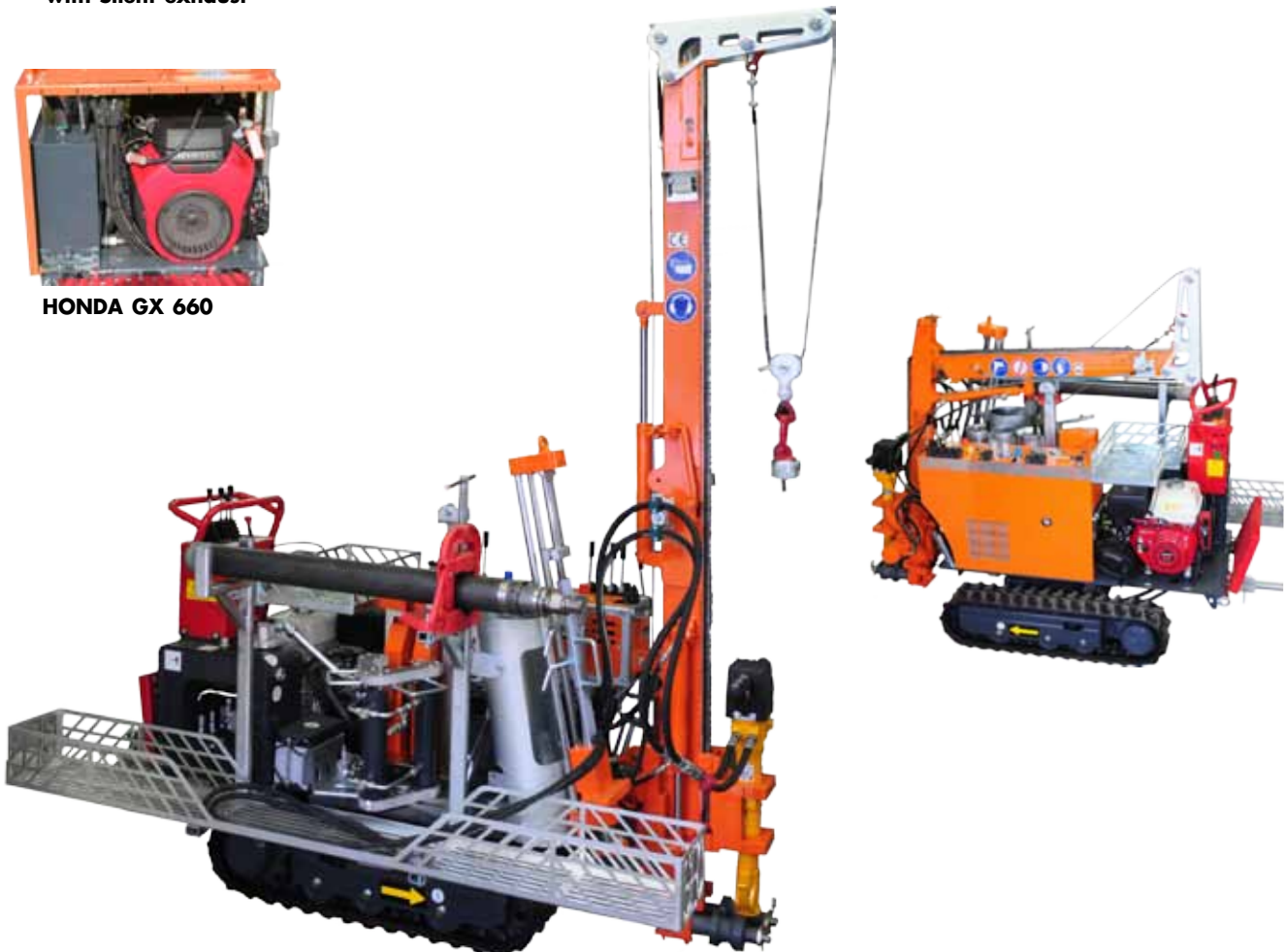
- Hydraulic caterpillar tracks, adjustable; to prevent a better stability
- Purpose bi fuel HONDA for work in poorly ventilated locations, and minimising pollutant input to the environmental and sample.
- "DPSH" Mast Extension ,for implementation „DPSH A+B" 63,5 kg, system is suitable for taking samples with the PPL System
- Hydraulic percussion Hammer and Hydraulic Extractor; for perfect adaptation to our needs
- hdraulic winch and Rack for window sampler incl. Bench vise, to make work easier



HONDA GX 390
with Silent exhaust



HONDA GX 660





Hydraulic percussion Hammer



Hydraulic Winch



OPEN Hydraulic Extractor



Purpose bi fuel for HONDA

Ordering Information:

Part No.:	Item	
Basic Unit		
112201000	MRZB Basic Unit	HONDA GX 390 - 13 PS
112201000.2	MRZB Basic Unit	HONDA GX 660 - 21,8 PS
Options Chassis / Motor		
112202000	Hydraulic caterpillar tracks, adjustable	750 - 1050 mm
112201049	Silent exhaust for HONDA GX 390	
112201104	Purpose bi fuel HONDA GX 390 Motor	Liquid gas / Petrol
112201104.1	Purpose bi fuel HONDA GX 660 Motor	Liquid gas / Petrol
Optionen Mast		
112214000	"DPSH" Mast Extension	Fallingweight 63,5 kg Fallingheight 500/750 mm
112211000	Mast Extension for the admission of window samplers up to 2000 mm length	
112213000	hydraulic Mast erecting	
112207300	Carriage "BIG", not acc. Standart	for PPL Ø 114 mm
Hydraulic percussion Hammer		
112205000	Hydraulic percussion Hammer	86 Joule
112207000	Hydraulic percussion Hammer	111 Joule
Hydraulische Extractor		
112206000	Hydraulic Extractor,	14 Tons / 2 Cylinder
112203500	OPEN Hydraulic Extractor	21 Tons / 3 Cylinder
112204000	Automatically switch for hydraulic Extractor	
Accessories		
112216000	Rack for window sampler incl. Bench vise	
112215100	follower coupling removable	
112212000	Hydraulic Winch	for use with PPL system
112212000	Hydraulic Concrete Core Drilling Head	
112209000	Water Tank for Hydraulic Concrete Core Drilling Head	



PPL System

The PPL System is designed for Linersampling with simultaneous setting casing tubes. The unique „Matryoshka Prinzip“ allows different combinations of Casing and Liner Tube. The following combinations are possible :

114 / 98 mm
98 / 82 mm
82 / 60 mm

Every Liner Tube you can use without casing und ist somit eine normale Liner Sonde.

„Liner Sampler complete“ consist :

- Casing Tube
- Screwing Tip without O Ring
- Connecting Ring for PVC-Line
- Screwing Head with O-Ring

For use as „Casing „ you need:

- Casing Tube (Liner Sampler + 1 Size)
- Screwing Tip with O Ring
- Drive Ring
- Drive Plate



Casing Tube with Liner Sampler
(Liner Sampler open for display normally closed)



Drill Rod

To achieve the highest possible quality of the Samples, we recommend to work with falling weights. Furthermore a winch has proved to be very useful. For Casing Tube Ø 114 mm with the MRZB please use Carriage "BIG".



Clamp Spanner



Strap Wrench und TapTool



Rope socket with Thread adaptor



Drive Plate with Drive Ring

Ordering Information:

diameter	Casing Tube complete	Screwing Tip without O-Ring	Screwing Head with O-Ring	Connecting Ring for PVC Liner	PVC Liner	PE-Plug (100 Stk)	PE Core catcher
PPL Liner Sampler							
60	116016000	116016300	116016300	116016600	116016500	116016501	116016602
82	116014000	116014300	116014400	116014600	116014500	116014501	116014602
98	116013010	116013210	116013410	116013600	116013500	116013501	116013602
114	116012000	116012300	116012400	116012600	116012500	116012501	116012602

diameter	Casing Rohr	Screwing Tip with O-Ring	Drive Ring	Drive Plate	Adapter Plate for hydraulic lifter	O-Ring
PPL Casing						
60	116016100	-	-	-	-	-
82	116014100	116014200	116014801	116014700	116014900	116014201
98	116013110	116013210	116013811	116013700	116013900	116013210
114	116012100	116012200	116012801	116012700	116012900	116012201

Part No.:	Item		
116021000	Drill Rod	54 x 1000 mm	double thread
116021100	Drill Rod	54 x 500 mm	double thread
116024000	Thread adaptor	Whitworth / double thread	for Screwing Head

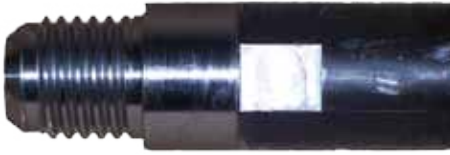
116025010	Driving Head	for Hammer use
116026010	Driving Head	für falling weight use
112709000	Brass-Head	Ø 32 mm

116027000	Clamp Spanner	SW 39 mm
116028000	TapTool	
116028001	Strap Wrench	
113208000	Spanner	39 x 700 mm

116023000	Rope socket 3,5 to	M 24	for use with winch
116022400	Thread adaptor	M24 / double thread	

116028007	liner cutting device	
116028004	Cutter for Liner	
116028006	Cutter blades long	10 pcs

111601100	Jack Housing	95 - 120 mm
111610070	Jack Grip	48 - 56 mm
111610060	Jack Grip	97 - 101 mm
111610100	Jack Grip	100 - 114 mm



Unique Thread connection, the Power transmission is no longer over the connection threads



Lost Cone



Groundwater Sampler with lost cone



**Screen Push Feet
PE Pug Push Feet**

CH direkt System

The minimally invasive Sampling System for:

- Depth discrete groundwater sampling
- Soil Air Sampling Probenahme
- Slug Tests without a Borehole
- Injection Drilling
- Injection Logging
- Geo-Elektric Measurements
- bring down measuring probes/ hoses in to the ground

The CH direkt System is for use with all common driving equipment (hand-guided hammers, MRZB and CPT Truck etc...)

Depth discrete groundwater sampling

protected Filter System, no contaminants / disappearances .
During pull out the Rods grouting is possible.

Double Valve Pump

Pump for sampling Water, more than 50 Meter possible. Sampling from wells or Sounding Rods with diameter > 15 mm possible. As carrier gas you can use compressed air or ever other discharge gas.

For oxygen-critical applications you can use nitrogen or helium als carrier gas.

Pneumatic control system

Control device for automatic operating double valve pumps.
Over a autarchic power supply it is possible to regulate atomaticly the sequential of the carrier gas , for the double valve pump.



PE Filter



**driving Head riding
for Hydraulic
Hammer**



**driving Head riding
for falling weights
with cable groove**

CH direkt System

Ordering Information:

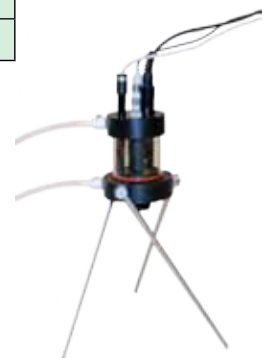
Part No.:	Item	
Depth discrete groundwater sampling		
101000010	Groundwater Sampler with PE Screen complete	Slit wide 0,3 mm
101000020	Groundwater Sampler with stainless Steel Screen complete	Mesh size 0,1 mm
101001000	Drill Rod 40 x 20 x 1.000mm	Wrench flat 36 mm
Spare-Filter		
101000150	Stainless Steel Screen 25 x 800mm	Mesh size 0,1 mm
101000140	PE Screen 25 x 3 x 1.000mm	Slit wide 0,3 mm
Consumables		
101000120	Lost cone	with O-Ring
Inner Rods		
101003010	Inner Rod –Starter Screen Push Feet	12 x 1.200 mm
101003000	Inner Rod– Starter PE Pug Push Feet	12 x 1.200 mm
101003020	Inner Rod – extension	12 x 1.000mm

Part No.:	Item	
Double Valve Pump		
101004100	Double Valve Pump	
101004000	Control device for double valve pump	
101004200	Hose Pack for double valve pump	25 Meter
Foot Valve Pump		
140203000	Foot valve pump	Ø=8mm Aussen Ø-12m
140214000	PE Hose	Ø=8 x 10 mm, 100m Rolle
152201000	Flow through cell	

Part No.:	Item	
Driving Heads		
101002000	Driving Head with CH-inner Thread	to M22 Inner Thread
101002010	Driving Head with CH-Thread riding	other side M22 Inner Thread
101002020	Driving Head with CH-Thread riding	for hydraulic hammer use
101002030	Driving Head with CH-Thread riding	for falling weights use
101001300	lost cone for drill rods	60 °



**Double Valve Pump
with Control device**



Flow through cell



**Lost Cone for
drill Rod**

What can we do for you ?

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