You will return to the contents of P1 SOIL by clicking the pictogram

Because of the mobility of the percussion drilling equipment and its ready capacity to solve problems, percussion drilling equipment has earned its place beside standard hand drilling equipment.

If drilling has to be executed in hard soils, possible containing layers of rubble and/or stones usually percussion drilling is applied.

In case of percussion drilling the percussion gouges, fitted with a hardened cutting head, are driven into the soil using a percussion hammer.

By executing this procedure step-wise the introduction and extraction of the gouges is simplified and contamination is avoided as much as possible.

Samples taken applying percussion drilling suffer minimal disturbance.

A dense sample grid is possible in relatively short time due to fast and simple sampling. Ergonomic operation is improved as 1.0 m extension rods as well as 0.5 m extension rods are available.

can be deployed on dump sites or in urban areas. The percussion gouges can be used above as well as under the groundwater level.

The percussion gouge can also be used for manual bailer boring drilling in order to penetrate a rubble layer.

Percussion drilling for instance is applied for research on soil pollution, grain size distribution, general soil classification, profile descriptions, etc.

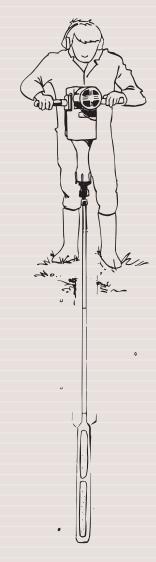
A percussion drilling installation is a complete and many sided sampling system for sampling up to a depth of between 5 to 10 meter in almost all (not too) hard types of soil.

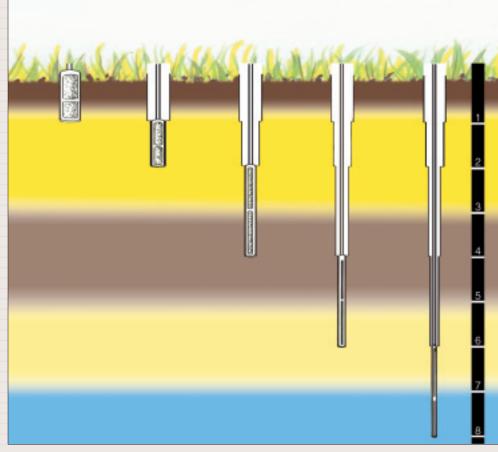
In concrete or road decks and slabs holes are normally drilled by a diamond saw company prior to percussion drilling.

The percussion gouge also penetrates rubble and thus

P1.21

By hammering the percussion gouges step-wise into the soil, contamination is avoided and extraction is simplified.





Step-wise sampling by using percussion gouges with various diameters

Percussion drilling set

- Ideal for soil with bricks, large or many stones
- The solution for city centres / industrial sites • Beautiful clean samples, no lubricants used
- Extremely sturdy rods and gouges
- Diameters allow efficient, rapid and light work
- · Can be combined with liner or foil sampling

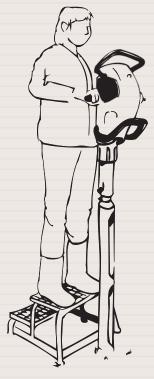




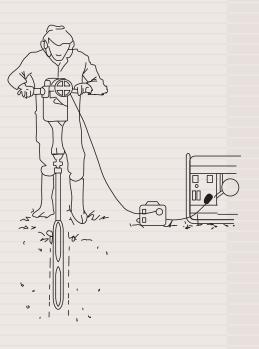
You will return to the contents of P1 SOIL by clicking the pictogram

P1.21

Using stairs for more ergonomical sound field work.



A percussion gouge is hammered into the soil with a electrical percussion hammer.



Percussion drilling sets

04.19.SC Percussion drilling set for heterogeneous soils with gasoline powered percussion hammer Cobra TT

The standard set is equipped for drilling to a depth of up to 5 meter. The complete set contains: a gasoline driven percussion hammer with accessories and wooden transport box, various extension rods, coupling sleeves, percussion gouges (combination type for various types of soil) in various diameters and lengths, a core sampler for pvc sample tubes and foil liners, a mechanical rod puller, an universal casing and rod puller clamp, a rod puller extension for the extraction of the first gouge, a crow bar, accessories to empty and clean the gouge, a lifting jack with lever and chain, an utility probe for safe cable finding, stairs for use with the percussion hammer in the field, etc., and aluminium transport cases.

04.19.SD Percussion drilling set for heterogeneous soils with light electrical percussion hammer

04.19.SE Idem, with heavy hammer

Using these sets the percussion gouges are hammered into the soil using an electrically driven percussion hammer with resp. 33.7 and 36.4 Joule beating power. The advantages of these hammers are: no petrol vapors and exhaust gasses directly over the sample. The sets contain: an electrically driven percussion hammer with accessories, an aggregate (continuous power 3300 W), an insulation guard, various extension rods, coupling sleeves, percussion gouges (combination type) in various diameters and lengths, a core sampler for pvc sample tubes and foil liners, a mechanical rod puller, an universal casing and rod puller clamp, a rod puller extension, accessories to empty and clean the gouge, a lifting jack with lever and chain, an utility probe for safe cable finding, stairs, etc. and aluminium transport cases.



Percussion drilling set with gasoline powered percussion hammer (04.19.SC)

You will return to the contents of P1 SOIL by clicking the pictogram



Percussion gouges

Percussion gouges can be used to take reasonably undisturbed samples from depth to about 10 metres, without the use of drilling liquid (sample suitable for chemical analysis). The percussion gouges of Eijkelkamp Agrisearch Equipment are very strong due to the choice of the used material and production method (special welding techniques and hardening) and the special design. Thanks to this special design the beating power of the percussion hammer is passed on in a optimal way to the percussion gouges, resulting in a higher drilling speed. The design also enables easy emptying and cleaning. Depending on the soil type, drilling depth and desired quantity of sample one of various gouge types is chosen.

Percussion gouges are supplied in two designs:

- A combination type for use in all kinds of soils.
- A sand type with core catcher for loose sandier soils.

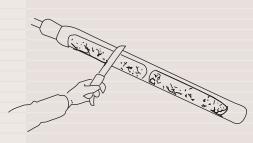
The combination type percussion gouge is available in various diameters 40, 50, 60, 75 and 100 mm and with a length of 50, 100 and 200 cm (the longest only for the smaller diameters). The sand type percussion gouge is only available with a length of 200 cm and a diameter of 50 mm. All percussion gouges have a hardened steel cutting head.

RD32-connection

With the RD32-connection (where RD32 represents 32 mm Ronde Draad or Round Thread) extension rods and percussion gouges are screwed together using a coupling sleeve. The RD32-connection takes very little time to attach and take off. The RD32-rods connect together by means of a coupling sleeve, which means that the massive extension rods have the same diameter along the entire length, which makes them very strong. Generally speaking, the RD32-connection can be pulled out with the use of standard extraction equipment.

P1.21

The sample is leveled off.



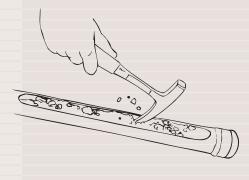


Percussion gouges in various diameters



RD32-connection

Using the hammer for geologists to empty the gouge.



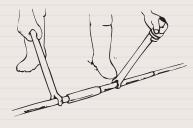




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P1.21

Connecting the extension rods with RD32-connection by means of the coupling sleeve.



The transparent sampling tube is fitted in the core sampler.



Core sampler

In addition to ordinary percussion gouges it is possible to apply a core sampler with a synthetic sampling tube or foil liners. These are transparent to facilitate immediate visual inspection in the field. The special cutting head has been fitted with an exchangeable core catcher in order to avoid loss of sample or sample contamination. The undisturbed sample can be sealed for transport to a laboratory. Limitations: gouges will not penetrate wood, roots, soft rock, large stones or sound concrete.

Foil insertion kit for core sampler

A set with which you can use the core sampler of the percussion drilling set with a thin PE foil liner. Over the years there where some remarks/complaints about the fact that it was a very difficult and elaborate job to get the sample out of the tube. It was only possible either by cutting or sawing to get to the sample. With the new system this transparent synthetic sampling tube is replaced by a long plastic foil. The advantages are evident; much lighter



Core sampler with sample tube



Sampler, cutting head and core catcher

material, easy to remove foil, same results and not at least, it is much cheaper. The foil insertion kit can only be used in combination with the left hand threaded core sampler 63 mm in combination with RD32 couplings.

Transport

For easy and ergonomical sound transportation of all kinds of field equipment Eijkelkamp Agrisearch Equipment has included some means of transport in the product range.

99.14 Fieldcart

You are also fully-mobile in the field with the collapsible fieldcart. The sturdy aluminium construction makes the fieldcart (with inflatable tires) very suitable for carrying all kinds of equipment in the field to a maximum loading weight of 150 kg. The cart is suited to transport packages with dimensions 120 x 56 cm. The cart, when folded (107 x 27 x 58 cm), takes up very little room, weighs only 15 kg and can be easily transported in a station car.



Foil insertion kit for core sampler



Fieldcart folded and un-folded

Core sampler

- * The cheapest way to get a sample in a liner.
- * No hassle to remove sample from liner; no extra tools needed.
- * Simple to use
- * No compaction of sample
- * Hygienic / ergonomic / safe
- * Core sampler can also be used with normal liners and core catcher.

You will return to the contents of P1 SOIL by clicking the pictogram



P1.21

Extraction systems

Without too much effort the gouges can be extracted from the soil by using rod pullers, which can be provided in different designs.

The first gouge can easily be extracted using a rod puller fitted with a rod puller extension system. If the gouge still is partially stuck in the top soil, then it can be removed using a lifting jack with lever and chain (see P1.09).

In case of the other (deeper) gouges, the mechanical rod puller can be placed directly on the surface of the soil. The mechanical rod puller can be supplied in a 1- or a 2-man operated version.

The 1-man operated mechanical rod puller has a pull-up force of 20 kN and a usefull length of about 70 cm. The 2-man operated version has a pull-up force of 40 kN. Crow bars with a length of 1.9 m are supplied separately. Once the gouge has been freed it can be pulled from the bore hole using a ball clamp diameter



Rod puller extension for the first gouge



Pulling device with clamping jaw

32-36 mm, with hand grips and a maximum pulling force of 40 kN.

The universal casing and rod puller clamp for use with clamping jaws has a diameter of 22-80 mm. To clamp rods or casings various clamping jaws can be used in it with a diameter of 32-45 mm and 50-54 mm. By using a filling ring the casing and rod puller clamp can be used in the mechanical rod puller.

For extremely heavy circumstances a manuallly operated hydraulic extraction system is available. The hydraulic extractor, with a pulling force of 80 kN, is supplied with extracting cylinder (diameter 65 mm) and a hydraulic aggregate with electric hydraulic extractor tube set. The extracting cylinder automatically switches off. Also needed to extract gouges and rods are a bottom plate with handle and rod puller clamp with clamping jaw.

Maximum operating pressure of the hydraulic pump is 700 bar. Total weight of hydraulic pump and extracting cylinder is 75 kg.



Pulling devices (rod pullers)

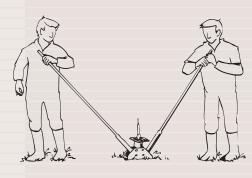


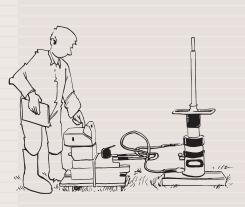
Hydraulic extraction system

Extracting the percussion gouges from the soil using:

- a. 1-man operated extractor
- b. 2-man operated extractor
- c. hydraulic extractor







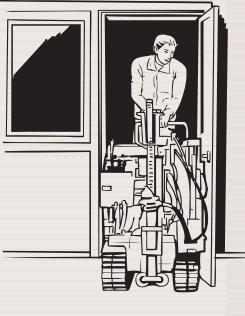




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P1.21

The compact drilling rig can reach almost every drilling spot.



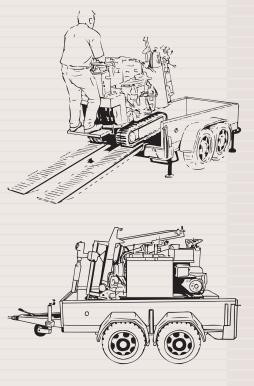
04.19.60 Fully hydraulic percussion drilling rig with all terrain caterpillar tracks

With the all terrain adjustable (750 - 1050 mm) caterpillar tracks this drilling rig is especially suitable and extremely flexible for use in difficult terrain. A Honda GX 390 - 15 HP petrol driven engine drives all hydraulic functions (incl. transport). The machine is supplied with a hydraulic percussion hammer (simply pushed onto the mast) and a hydraulic jack (12 ton pulling capacity). The standard rig can be used in combination with our standard percussion gouges, and optionally for dynamic sounding tests / standard penetration tests (SPT). According to EN (European Norm) and ASTM.

Advantages

- For percussion drilling and (optional) dynamic sounding
- Suitable for all terrains
- Easy to transport (standard trailer or in the back of a van)
- Storage cases for tools
- Fully operational unit
- Easy to control
- Supplied complete with hammer and jack
- Tracks adjustable from 750 1050 mm

The rig can be transported on a standard trailer.





Fully hydraulic percussion drilling rig



Art.no.	•)ty. n set	Art.no.	Description Qty in s	
P1.21	Percussion drilling sets		**04.19.20.09	Percussion gouge, bottom part, combination type, Ø 40 mm,	1
	Dependent on the circum-			operational length 200 cm,	
	stances in the field you may			with detachable RD32	
	choose for equipment with		**04.19.13	Rod catcher for extension rods	1
	a gasoline powered or electrica	al		with RD32 connection (sl.w. 27)	
	powered percussion hammer			and percussion gouges	
	(in light or heavy design).		**04.19.20.20	(with hole). Pointed chisel (410 mm) with	1
04.19.SC	Percussion drilling set for		04.19.20.20	RD32 connection for crushing	'
0 11 15 15 0	heterogeneous soils with a			stones at greater depths	
	gasoline powered percussion		**04.19.43	Core sampler, Ø 63 mm, with	1
	hammer Cobra TT. Standard			left hand threaded RD32	
	set for augerings to a depth			connections, for pvc sample	
	of 5 m. With RD32 connection.			tubes and foil liners, with	
**04.19.01	Percussion hammer Cobra TT,	1		screwable cutting shoe and exchangeable core catcher,	
04.19.01	gasoline powered, with hexago			sample length 100 cm	
	insert end 32 mm. Beating pow		**04.19.43.01	Foil insertion kit for core	1
	40 Joule at 1620 beats per min.			sampler, left design with left	
	Noise 96 DB(A) acc. PN8NTC2.			hand rectangular threaded	
	Vibration 2.3 A m/s2 acc.			connection.	
	EN 28662		**04.19.43.02	Thin walled PE foil liner for	2
**04.19.0101	Transport box, wood for	1		core sampler, sample Ø 50 mm,	
	gasoline powered percussion hammer Cobra TT		**04.18.41	length 100 cm. Set of 40 pieces. Pvc sample tube, Ø 50x46 mm,	5
**04.19.02	Concrete wrecking chisel	1	04.10.41	length 100 cm, excl.	,
0	with hexagon 32 mm insert en			2 protective caps	
	Length 400 mm, width 38 mm		**04.18.41.01	Protective cap, PE, Ø 50 mm,	10
**04.19.05	Striking pen for gasoline	1		for pvc sample tube	
	percussion hammer Cobra TT		**04.18.40.02	Core catcher for core sampler	2
	(04.19.01) with hexagon 32 mm			Ø 63 m	
**04.19.14	insert end for RD32 connection	7	**04.18.50	Mechanical rod puller, 2-man	1
04.19.14	Coupling sleeve for RD32 extension rods (04.19.12).	,		operated, pull-up force 40 kN, useful length of stroke about	
	Length 200 mm, Ø 45 mm			70 mm, excl. 2 crow bars	
**04.19.12	Extension rod for percussion	5	**04.18.07.01.01	•	2
	gouge with RD32 connection,			rod pullers 20 and 40 kN	
	length 1 m, Ø 32 mm, excl.		**04.18.55	Casing and rod puller clamp,	1
	coupling sleeve			universal, for use of clamping	
**04.19.20.01	Percussion gouge, bottom part	, 1		jaw, Ø 22-80 mm, excl.	
	combination type, Ø 100 mm, operational length 50 cm, with		**04.18.55.05	clamping jaw Clamping jaw, Ø 32- 45 mm,	1
	detachable RD32 connection		01.10.55.05	for RD32	
**04.19.20.02	Percussion gouge, bottom part	, 1	**04.18.07.05	Rod puller extension for	1
	combination type, Ø 100 mm,			pulling first gouge,	
	operational length 100 cm, wit	h		height 85 cm	
	deta-chable RD32 connection		**04.18.56	Filling ring for use of casing and	1
**04.19.20.03	Percussion gouge, bottom part	, 1		rod puller clamp (04.18.55) in	
	combination type, Ø 75 mm, operational length 100 cm, wit	h	**99.16	mechanical rod puller (04.18.50) Stairs, aluminium, height 40 cm	1
	detachable RD32 connection	"	**04.18.08	Open ended spanner 27 mm,	1
**04.19.20.04	Percussion gouge, bottom part	, 1	0	impact type	
	combination type, Ø 60 mm,	•	**10.80.90.02	Pipe wrench, Swedish design,	1
	operational length 100 cm, with	า		till Ø 76 mm, length 58 cm	
	detachable RD32 connection		**04.18.63	Pounding bar with head	1
**04.19.20.05	Percussion gouge, bottom part	, 1		and flat chisel, length 150 cm	
	combination type, Ø 50 mm,	l.	**04.18.18	Ripping bar for emptying	1
	operational length 100 cm, wit detachable RD32 connection	rı	**04.18.12	gouges Rotation rod, Ø 15 mm,	1
**04.19.20.06	Percussion gouge, bottom part	, 1	04.10.12	length 40 cm	
0	combination type, Ø 40 mm,		**04.05.01.20	Bent spatula, breadth 20 mm	1
	operational length 100 cm, wit	h	**99.07.01	Hammer for geologists,	1
	detachable RD32 connection			with point	
**04.19.20.07	Percussion gouge, bottom part	, 1	**99.07.02	Hammer for geologists,	1
	combination type, Ø 60 mm,			with blade	
	operational length 200 cm, wit	n	**05.07.03	Steel lifting jack	1
**04 10 20 00	detachable RD32 connection	1	**05.07.14 **01.11.04	Lever with chain, length 100 cm	1
**04.19.20.08	Percussion gouge, bottom part combination type, Ø 50 mm,	, 1	**01.11.04 **01.15.01	Field data registration set Utility probe with cone Ø 19 mm	1 , 1
	operational length 200 cm, wit	h	01.15.01	fibre glass, length 105 cm,	, 1





PARTS LIST

Art.no.	•	Qty. in set	Art.no.	Description Qty.	
	checking the sub-stratum for cables, tubes and pipes		**04.19.20.05	Percussion gouge, bottom part, combination type, Ø 50 mm,	1
**01.11.02	Aluminium transport case, dim. 108x23x14 cm (outside)	1		operational length 100 cm, with detachable RD32 connection	
**01.12.08	Aluminium transport case, dim. 112x39x32 cm (outside)	1	**04.19.20.06	Percussion gouge, bottom part, combination type, Ø 40 mm,	1
**01.11.02.01 **01.11.03	Padlock Work gloves, pair, oil- and	2 5		operational length 100 cm, with detachable RD32 connection	
	grease resistant, sturdy, with short sleeve		**04.19.20.07	Percussion gouge, bottom part, combination type, Ø 60 mm, operational length 200 cm, with	1
04.19.SD	Percussion drilling set for heterogeneous soils with light electrical percussion hammer Makita HM1400.		**04.19.20.08	detachable RD32 connection Percussion gouge, bottom part, combination type, Ø 50 mm, operational length 200 cm, with	1
	Standard set for augerings to a depth of 5 m. With RD32 connection		**04.19.20.09	detachable RD32 connection Percussion gouge, bottom part, combination type, Ø 40 mm, operational length 200 cm, with	1
**04.18.80	Percussion hammer (HM 1400) electric, 220 V, beating power 33.7 Joule, incl. Chisel 410 mm		**04.19.13	detachable RD32 connection Rod catcher for extension rods with RD32 connection (sl.w. 27)	1
**99.13	Generator, max. power 3700 V continuous power: 3300 W, 23 50 Hz, tank capacity 17 I, run	-	**04.19.20.20	and percussion gouges (with hole) Pointed chisel (410 mm) with RD32 connection for crushing). 1
	duration 8.8 hrs. Dimensions 580x477x.508 mm. Incl. oil lev guard	el	**04.19.43	stones at greater depths Core sampler, Ø 63 mm, with left hand threaded RD32 connections,	1
**99.13.03	Collector box, synthetic, to pla generator when working in the field (to prevent petrol- and colleakage). Dimensions:	ne		for pvc sample tubes and foil liner with screwable cutting shoe and exchangeable core catcher, sample length 100 cm	s,
**99.13.01	80x60x12 cm Insulation guard to protect	1	**04.19.43.01	Foil insertion kit for core sampler, left design with left hand	1
	electrical apparatus which are connected to a generator. Ob acc. to NEN1010 for generator 2000 VA or more. Not suitable	liged r	**04.19.43.02	rectangular threaded connection. Thin walled PE foil liner for core sampler, sample Ø 50 mm, length 100 cm. Set of 40 pieces.	2
	mains voltage with rim earthi Incl. adapter cable with euro- (DIN49441/CEE7)	ng.	**04.18.41	Pvc sample tube, Ø 50x46 mm, length 100 cm, excl. 2 protective caps	5
**04.19.06	Striking pen for electric percussion hammer Makita HM1400 (04.18.80) with hexag	3	**04.18.41.01 **04.18.40.02	Protective cap, PE, Ø 50 mm, for pvc sample tube Core catcher for core sampler	10
	30 mm insert end for RD32	gon		Ø 63 mm	
**99.51.30 **04.19.12	connection Ring-nut spanner 30 mm Extension rod for percussion gouge with RD32 connection,	1 5	**04.18.50	Mechanical rod puller, 2-man operated, pull-up force 40 kN, useful length of stroke about 70 mm, excl. 2 crow bars	1
	length 1 m, Ø 32 mm, excl. coupling sleeve		**04.18.07.01.01	Crow bar, length 1.9 m, for rod pullers 20 and 40 kN	2
**04.19.14	Coupling sleeve for RD32 extension rods (04.19.12). Length 200 mm, Ø 45 mm	7	**04.18.55	Casing and rod puller clamp, universal, for use of clamping jaw, Ø 22-80 mm, excl. clamping	1
**04.19.20.01	Percussion gouge, bottom par combination type, Ø 100 mm, operational length 50 cm, wit		**04.18.55.05	jaw Clamping jaw, Ø 32- 45 mm, for RD32	1
**04.19.20.02	detachable RD32 connection Percussion gouge, bottom par combination type, Ø 100 mm, operational length 100 cm, wi		**04.18.07.05 **04.18.56	Rod puller extension for pulling first gouge, height 85 cm Filling ring for use of casing and rod puller clamp (04.18.55) in	1
**04.19.20.03	detachable RD32 connection Percussion gouge, bottom par		**99.16	mechanical rod puller (04.18.50) Stairs, aluminium, height 40 cm	1
0 13.20.03	combination type, Ø 75 mm, operational length 100 cm, wi		**04.18.08	Open ended spanner 27 mm, impact type	1
**04.19.20.04	detachable RD32 connection Percussion gouge, bottom par		**10.80.90.02	Pipe wrench, Swedish design, till Ø 76 mm, length 58 cm	1
	combination type, Ø 60 mm, operational length 100 cm, wit		**04.18.63	Pounding bar with head and flat chisel, length 150 cm	1
	detachable RD32 connection		**04.18.18	Ripping bar for emptying gouges	1

PARTS LIST



Art.no.	•	ty. 1 set	Art.no.	Description Qty. in se	
**04.18.12	Rotation rod, Ø 15 mm, length 40 cm	1	**04.19.20.02	Percussion gouge, bottom part, combination type, Ø 100 mm,	1
**04.05.01.20 **99.07.01	Bent spatula, breadth 20 mm Hammer for geologists,	1 1		operational length 100 cm, with detachable RD32 connection	
**99.07.02	with point Hammer for geologists, with blade	1	**04.19.20.03	Percussion gouge, bottom part, combination type, Ø 75 mm, operational length 100 cm, with	1
**05.07.03	Steel lifting jack	1		detachable RD32 connection	
**05.07.14	Lever with chain, length 100 cn		**04.19.20.04	Percussion gouge, bottom part,	1
**01.11.04 **01.15.01	Field data registration set Utility probe with cone Ø 19 m	1 m, 1		combination type, Ø 60 mm, operational length 100 cm, with	
	fibre glass, length 105 cm, Ø shaft 12.5 mm. For safely checking the sub-stratum for		**04.19.20.05	detachable RD32 connection Percussion gouge, bottom part, combination type, Ø 50 mm,	1
	cables, tubes and pipes			operational length 100 cm, with	
**01.11.02	Aluminium transport case,	1		detachable RD32 connection	
	dim. 108x23x14 cm (outside)		**04.19.20.06	Percussion gouge, bottom part,	1
**01.12.08	Aluminium transport case,	1		combination type, Ø 40 mm,	
	dim. 112x39x32 cm (outside)	_		operational length 100 cm, with	
**01.11.02.01	Padlock	2	++04 40 20 07	detachable RD32 connection	
**01.11.03	Work gloves, pair, oil- and grease resistant, sturdy,	5	**04.19.20.07	Percussion gouge, bottom part, combination type, Ø 60 mm,	1
	with short sleeve			operational length 200 cm, with	
	with shore sieeve			detachable RD32 connection	
04.19.SE	Percussion drilling set for		**04.19.20.08	Percussion gouge, bottom part,	1
	heterogeneous soils with			combination type, Ø 50 mm,	
	heavy electrical percussion			operational length 200 cm, with	
	hammer Makita HM1800. Standard set for augerings		**04.19.20.09	detachable RD32 connection Percussion gouge, bottom part,	1
	to a depth of 5 m.		04.19.20.09	combination type, Ø 40 mm,	'
	With RD32 connection			operational length 200 cm, with detachable RD32 connection	
**04.18.81	Percussion hammer (HM 1800),	1	**04.19.13	Rod catcher for extension rods	1
	electric, 220 V, beating power			with RD32 connection (sl.w. 27)	
	36.4 Joule, inclusive chisel			and percussion gouges (with hole)	
++00 13	400 mm		**04.19.20.20	Pointed chisel (410 mm) with	1
**99.13	Generator, max. power 3700 W continuous power: 3300 W, 230			RD32 connection for crushing stones at greater depths	
	50 Hz, tank capacity 17 l, run	. •	**04.19.43	Core sampler, Ø 63 mm, with	1
	duration 8.8 hrs. Dimensions			left hand threaded RD32	
	580x477x508 mm. Incl. oil level			connections, for pvc sample tubes	
titoo 42 02	guard			and foil liners, with screwable cut	-
**99.13.03	Collector box, synthetic, to place generator when working in the			ting shoe and exchangeable core catcher, sample length 100 cm	
	field (to prevent petrol- and oil		**04.19.43.01	Foil insertion kit for core	1
	leakage). Dimensions: 80x60x12		01.13.13.01	sampler, left design with left hand	
**99.13.01	Insulation guard to protect	1		rectangular threaded connection.	
	electrical apparatus which are		**04.19.43.02	Thin walled PE foil liner for	2
	connected to a generator.			core sampler, sample Ø 50 mm,	
	Obliged acc. to NEN1010 for generator 2000 VA or more.		**04.18.41	length 100 cm. Set of 40 pieces. Pvc sample tube, Ø	5
	Not suitable for mains voltage		""04.16.41	50x46 mm, length 100 cm,	5
	with rim earthing. Incl. adapter			excl. 2 protective caps	
	cable with euro-plug		**04.18.41.01	Protective cap, PE, Ø 50 mm,	10
	(DIN49441/CEE7)			for pvc sample tube	
**04.19.07	Striking pen for electric	3	**04.18.40.02	Core catcher for core	2
	percussion hammer Makita		**04 10 F0	sampler Ø 63 mm	1
	HM1800 (04.18.81) with hexagon 28.6 mm insert end		**04.18.50	Mechanical rod puller, 2-man operated, pull-up force 40 kN,	1
	for RD32 connection			useful length of stroke about	
**04.19.12	Extension rod for percussion	5		70 mm, excl. 2 crow bars	
	gouge with RD32 connection,		**04.18.07.01.01	Crow bar, length 1.9 m, for	2
	length 1 m, Ø 32 mm, excl. coupling sleeve		**04.18.55	rod pullers 20 and 40 kN Casing and rod puller clamp,	1
**04.19.14	Coupling sleeve for RD32	7	""04.16.55	universal, for use of clamping jaw	
U-1.13.1 -1	extension rods (04.19.12).	,		Ø 22-80 mm, excl. clamping jaw	,
	Length 200 mm, Ø 45 mm		**04.18.55.05	Clamping jaw, Ø 32- 45 mm,	1
			1		
**04.19.20.01	Percussion gouge, bottom part	, 1		for RD32	
**04.19.20.01	combination type, Ø 100 mm,		**04.18.07.05	Rod puller extension for pulling	1
**04.19.20.01			**04.18.07.05 **04.18.56		1





PARTS LIST

Art.no.	•	Qty. in set	Art.no.	Description	Qty. in set
**99.16	in mechanical rod puller (04.1 Stairs, aluminium, height 40 c	m 1	04.19.07	36.4 Joule, inclusive chi Striking pen for electric	percussion
**04.18.08	Open ended spanner 27 mm, impact type	1		hammer Makita HM180 with hexagon 28.6 mm	
**10.80.90.02	Pipe wrench, Swedish design, till Ø 76 mm, length 58 cm	1		for RD32 connection	
**04.18.63 **04.18.18	Pounding bar with head and flat chisel, length 150 cm Ripping bar for emptying	1		Electrical powered ham need a generator:	imers
**04.18.12	gouges Rotation rod, Ø 15 mm,	1	99.13	Generator, max. power continuous power: 330 50 Hz, tank capacity 17	0 W, 230V
**04.05.01.20 **99.07.01	length 40 cm Bent spatula, breadth 20 mm Hammer for geologists,	1 1		duration 8.8 hrs. Dimer 580x477x508 mm. Incl.	isions
**99.07.02	with point Hammer for geologists,	1	99.13.01	guard Insulation guard to pro	
**05.07.03	with blade Steel lifting jack	1		electrical apparatus wh connected to a generat	
**05.07.14	Lever with chain, length 100 c			acc. to NEN1010 for ge	-
**01.11.04	Field data registration set	1		2000 VA or more. Not s	
**01.15.01	Utility probe with cone Ø 19 mm, fibre glass, length 105	1 5 cm,		mains voltage with rim Incl. adapter cable with	
	Ø shaft 12.5 mm. For safely checking the substratum for cables, tubes and pipes		99.13.03	(DIN49441/CEE7) Collector box, synthetic generator when workir	•
**01.11.02	Aluminium transport case,	1		(to prevent petrol- and	-
0	dim. 108x23x14 cm (outside)			Dimensions: 80x60x12 of	
**01.12.08	Aluminium transport case,	1			
	dim. 112x39x32 cm (outside)			Gouges and core samp	ers
**01.11.02.01	Padlock	2			
**01.11.03	Work gloves, pair, oil- and	5		Gouges with RD 32 con	
	grease resistant, sturdy, with			(length 50 cm, 100 cm a	and 200 cm):
	short sleeve		04.19.20.01	Percussion gouge, botto	om nart
	Percussion hammers:		04.13.20.01	combination type, Ø 10	•
	Three types of percussion			operational length 50 c	
	hammers are supplied. One			detachable RD32 conne	-
	type of gasoline powered		04.19.20.02	Percussion gouge, bott	om part,
	hammer (Cobra TT) and Two			combination type, Ø 10	0 mm,
	types of electrical powered			operational length 100	cm, with
	hammers (HM1400 and			detachable RD32 conne	
	HM1800):		04.19.20.03	Percussion gouge, botto	
				combination type, Ø 75	
04.19.01	Percussion hammer Cobra TT,			operational length 100	-
	gasoline powered, with hexag		04 10 30 04	detachable RD32 conne Percussion gouge, botto	
	insert end 32 mm. Beating po 40 Joule at 1620 beats per mi		04.19.20.04	combination type, Ø 60	
	Noise 96 DB(A) acc. PN8NTC2			operational length 100	
	Vibration 2.3 A m/s2 acc. EN 2			detachable RD32 conne	•
04.19.01.01	Transport box, wood for gaso		04.19.20.05	Percussion gouge, botto	
	powered percussion hammer			combination type, Ø 50	
	Cobra TT			operational length 100	
04.19.02	Concrete wrecking chisel with			detachable RD32 conne	ection
	hexagon 32 mm insert end.		04.19.20.06	Percussion gouge, botto	om part,
	Length 400 mm, width 38 mm			combination type, Ø 40	
04.19.05	Striking pen for gasoline perc			operational length 100	
	hammer Cobra TT (04.19.01) v			detachable RD32 conne	
	hexagon 32 mm insert end fo	r RD32	04.19.20.07	Percussion gouge, botto	
	connection			combination type, Ø 60 operational length 200	
04.18.80	Percussion hammer (HM 1400	١		detachable RD32 conne	
J 10.00	electric, 220 V, beating power		04.19.20.08	Percussion gouge, botto	
	33.7 Joule, incl. Chisel 410 mn		5 1.15.20.00	combination type, Ø 50	•
04.18.80.05	Pointed chisel for electric	-		operational length 200	
	percussion hammer (04.18.80)			detachable RD32 conne	•
04.19.06	Striking pen for electric percu		04.19.20.09	Percussion gouge, bott	
	hammer Makita HM1400 (04.			combination type, Ø 40	
	with hexagon 30 mm insert e	-		operational length 200	
	for RD32 connection			detachable RD32 conne	ection
04.18.81	Percussion hammer (HM 1800			Core samplers with RD	
	electric, 220 V, beating power			screw thread connection	n for



Art.no.	Description	Qty.	Art.no.	Description	Qty.
	fail liners and/or sample tub	in set		0.22.90mm ovel elemning	in set
04.40.42	foil liners and/or sample tub (two lengths 100 and 50 cm)):	04.18.55.05	Ø 22-80mm, excl. clamping Clamping jaw, Ø 32- 45 mm	-
04.19.43	Core sampler, Ø 63 mm, with left hand threaded RD32	1	04.18.57	for RD32	
	connections, for pvc sample		04.18.57	Filling ring for use of casing and rod puller clamp (04.18	-
	tubes and foil liners, with			in mechanical rod puller 20	
	screwable cutting shoe and			(04.18.07.01)	
	exchangeable core catcher,		04.18.07.05	Rod puller extension for pu	ılling
	sample length 100 cm			first gouge, height 85 cm	
04.19.45	Core sampler, Ø 63 mm, with			_	
	left hand threaded connection	-		Two person operated set:	
	for pvc sample tubes and foi liners, with screwable cutting		04.18.50	Mechanical rod puller, 2-ma	an.
	shoe and exchangeable core	_	04.10.50	operated, pull-up force 40	
	catcher, total length 50 cm,			useful length of stroke abo	
	with RD32 connection			70 mm, excl. 2 crow bars	
04.19.43.01	Foil insertion kit for core		04.18.07.01.01	Crow bar, length 1.9 m, for	rod
	sampler, left design with left	t		pullers 20 and 40 kN	
	hand rectangular threaded		04.18.55	Casing and rod puller clam	
04 10 42 02				universal, for use of clampi	
04.19.43.02	connection. 43.02 Thin walled PE foil liner for core sampler, sample Ø 50 mm, length 100 cm. Set of 40 pieces. 41 Pvc sample tube, Ø 50x46 mm, length 100 cm, excl. 2 protective caps 41.01 Protective cap, PE, Ø 50 mm, for pvc sample tube 40.02 Core catcher for core sampler Ø 63 mm Spare parts for gouges: 72.40 Cutting shoe for percussion gouge, Ø 40 mm 72.50 Cutting shoe for percussion gouge, Ø 50 mm 72.60 Cutting shoe for percussion gouge, Ø 60 mm 72.75 Cutting shoe for percussion gouge, Ø 75 mm 72.99 Cutting shoe for percussion Core sample tube 04.18.55 04.18.55 04.18.55 04.18.68 05.18.55 05.26 04.18.68 05.27 05.27 06.18.55 06.18.55 06.18.55 07.18.55 07.18.55 08.18.55 09.18.55	Ø 22-80 mm, excl. clamping Clamping jaw, Ø 32- 45 mm			
		-	04.16.55.05	, ,, ,	1,
04.18.41			04.18.56	Filling ring for use of casing	n and
	•	-	0 11 10 10 0	rod puller clamp (04.18.55)	
	•			mechanical rod puller (04.1	
04.18.41.01	Protective cap, PE, Ø 50 mm,	,	04.18.07.05	Rod puller extension for pu	ılling
	for pvc sample tube			first gouge, height 85 cm	
04.18.40.02	· ·	er			force tracting ic raulic ic
	Ø 63 mm			Hydraulic operated set:	
	Spare parts for gouges:		04.18.68	Hydraulic extractor, pulling 80 kN. Complete set with e	
04.18.72.40	Cutting shoe for percussion			cylinder (Ø 65 mm), hydrau	lic
				aggregate with electric hyd	
04.18.72.50				extractor tube set. Automa	
04.40.73.60	3 3 .			switching of extracting cylin	
04.18.72.60				(excl. ball clamp and excl. b	ottom
04.18.72.75			04 18 68 01	Bottom plate with handle f	or
04.10.72.73			04.10.00.01	hydraulic extractionsystem.	Oi
04.18.72.99			04.18.55	Casing and rod puller clam	0,
	gouge, Ø 100 mm			universal, for use of clampi	ng jaw,
				Ø 22-80mm, excl. clamping	jaw
	Extension rods and accessor for RD 32 screw thread	ies	04.18.55.05	Clamping jaw, Ø 32- 45 mm for RD32	١,
	connection:				
				Fully hydraulic percussion	
04.19.12	Extension rod for percussion			drilling rig	
	gouge with RD32 connection	٦,		The newsussian hammers as	
	length 1 m, Ø 32 mm, excl. coupling sleeve			The percussion hammers an rather heavy to be operate	
04.19.14	Coupling sleeve for RD32			by hand. To make work eas	
04.15.14	extension rods (04.19.12).			we offer a fully hydraulic	JIC1
	Length 200 mm, Ø 45 mm			drilling rig.	
04.18.08	Open ended spanner 27 mm	,			
	impact type		04.19.60	Fully hydraulic percussion	
10.80.90.02	Pipe wrench, Swedish design	١,		drilling rig with all terrain	
	till Ø 76mm, length 58cm			caterpillar tracks and Hond	
				motor. Incl. hydraulic hamn	
	Extraction systems			(86 Joule) and hydraulic jac	
	One nersen enersted sets			system (12 t) with puller cla and set of 3 clamping jaws	-
	One person operated set:			(range 50-70 mm totally).	
04.18.07.01	Mechanical rod puller, 1-mai	า		(range 50-70 mill totally).	
	operated, pull-up force 20 k		04.19.61	Striking pen for hydraulic	
	useful length of about 70 m			percussion drilling rig and	
	excl. crow bar	-		RD32 percussion gouges.	
04.18.07.01.01	Crow bar, length 1.9 m, for r	od			
	pullers 20 and 40 kN			Accessories for transport	
04.18.55	Casing and rod puller clamp,			in the field	
	universal, for use of clampin	g jaw,			





rt.no.	Description	Qty. in set	Art.no.	Description	Qty. in se
9.14	Fieldcart, aluminium, colla package measurements 12 collapsed dimensions 107x max. loading weight 150 k 15 kg	0x56 cm, 27x58 cm,			