

SITE INVESTIGATION

WS 5523 to WS 5541 Rebar Locator, Dynamic Cone Penetrometer – TRRL

WS 5523 Path Measuring Device With cable 1.5 m. Weight 0.14 kg

WS 5523/1 Diameter Probe With integrated electronics for precise non-destructive diameter definition. Weight 0.5 kg.

WS 5523/2 Depth probe for measuring concrete covers up to 300 mm.
Weight 0.4 kg.

WS 5523/3 Protective film

WS 5523/4 Adaptor for fastening path-measuring device.

WS 5524 Marker for spot probe with spare refills.

WS 5525 Test block The four basic operations - locating rebars, measuring covers, rapid scanning , determining rebar diameters- can be carried out on the test block with different covers. New users of Profometer 4 can use the test block to practise using the instrument.

WS 5526 Extension rod for probes, extendable to 1.5 m. Weight 0.6 kg.

WS 5026/1 Spot probe for measuring
concrete covers up to 130 mm.
Weight 0.17.

WS 5026/2 Protective film

WS 5026/3 Probe cables Length 1.5 m

WS 5026/4 Probe cables Length 3.0 m

WS 5026/5 Adapter cable for PROFOMETER 3 diameter and depth probes

WS 5026/6 Path-measuring device Length 1.55 m

WS 5026/7 Path-measuring device Length 3.0 mm

WS 5026/8 Printer cable

WS 5026/9 Transfer cable

WS 5527 DIMENSI Dynamic Cone Penetrometer - TRRL

Hand Operated.

Penetrometers are used to establish the thickness of different stratifications when investigating the suitability of a site for bridge, road and other construction works.

In general, if the ground is not too compact, penetration tests with the Lightweight penetrometer can be carried out to depths of about 8 to 12 m.

The DCP consists of :

WS 5528 Handle (1 No.)

WS 5529 8 kg hammer (1 No.)

WS 5530 Top rod - Sliding rod (1 No)

WS 5531 Anvil (1 No.)

WS 5532 Clamping rings (2 Nos.)

WS 5533 Hand guard (1 No.)

WS 5534 Standard shaft - Bottom rod (1 No)

WS 5535 Penetration cone (1 No.)

WS 5536 Measuring ruler (1 No.)

WS 5537 Ruler Stand (1 No.)

WS 5538 Base plate (1 No.)

WS 5539 Adapter (1 No.)

WS 5540 943 mm Extension rod (A) (1 No.)

WS 5541 425 mm Extension rod (B) (1 No.)



SITE INVESTIGATION

WS 5500 TO WS 5512 Hand, Spiral, Dutch & Gravel Augers & Proceq Resistivity Meter

T-Hand Augers

WS 5500 DIMENSI Hand auger, 80 mm dia.

WS 5501 DIMENSI Hand auger, 100 mm dia.

WS 5502 DIMENSI Hand auger, 150 mm dia. For the application of general exploration in the soil investigation. **Standards : ASTM D 420, D 1452 - AASHTO T 86, T202 - CNR a. VI no. 25.** Material of special plated steel, complete with T-handle, and 1 metre rod.

Accessories

WS 5503 DIMENSI Extension rod 1 m length for handle augers. Weight 2 kg.

WS 5504 DIMENSI Spiral soil auger 25 mm dia. For used with sampling of soils. Material special steel. 25 mm dia. x 152 mm length. Total length including handle 1200 mm. Weight 2 kg net.

Accessories

WS 5505 DIMENSI Extension rod 1 m length. Weight 2 kg

WS 5506

DIMENSI Dutch Soil Auger head 70 mm dia. Edelman model.

For used of sampling soft fine soils. Material special forged steel. The handle and rod are not included. To be ordered separately. (See accessories). Weight approx. 2 kg net.

WS 5506/1 DIMENSI Proving Ring Penetrometer, for determination of the bearing strength, compaction degree of subgrades and penetration resistance of soil. Unit supplied complete with "T" handle, proving ring 1 kN with max. load pointer and calibrated chart, extension rod 500mm long graduated every 100mm, and removable cone 30 ° with 1 sq. in top area. Cadmium plated for rust protection. Weight 6.1 kg.

Accessories

WS 5507 DIMENSI Steel handle and 'T' piece

WS 5508 DIMENSI Extension rod 1 m length with coupling sleeve connection.

WS 5509 DIMENSI Gravel Auger Head 150 mm dia.

For used of working in sand and gravel material. Material special steel. The handle and rod are not included and have to be ordered separately. Weight approx. 1.3 kg net.

Accessories

WS 5510 DIMENSI Steel handle and 'T' piece

WS 5511 DIMENSI Extension rod 1 m length

Measurement of the electrical resistance of reinforced concrete components for assing the risk of corrosion.

The corrosion of steel in concrete is an electrochemical process which generates a flow of current and can dissolve metals. The lower the electrical resistance, the more readily the corrosion current flows through the concrete and the greater is the probability of corrosion. The metal loss as function of time, ie. the rate of corrosion, also increases. The literature mentions limits of possible corrosion based on scientific work, e.g.

With $p > 12$ Kilo Ohms cm ... corrosion is improbably
with $p = 8$ bis 12 Kilo Ohms cm .. corrosion is possible
with $p < 8$ Kilo Ohms cm ... corrosion is fairly certain

The resistance of concrete may differ very greatly depending on the local conditions and the environmental influences.

An extensive investigation with RESI resistivity meter and the graphical display of the measured values permits the determination of spots where corrosion may occur. The combination of resistance and potential measurement furt-hermore improves the information about the corrosion condition of the rebars



WS 5500 to WS 5502



WS 5506/1

SITE INVESTIGATION

WS 5542 to WS 5555/2 Mackintosh Probe, JKR Probe & Mankopuri Soil Sampling Kit

Models WS 5542 DIMENSI Mackintosh Probe

Consists of :

- WS 5543** Extension/boring rod 1 m length (10 Nos)
- WS 5544** Rod coupling (10 Nos)
- WS 5545** Pipe wrenches (2 Nos)
- WS 5546** Tap wrenches (2 Nos)
- WS 5547** Core tube adaptor (1 No)
- WS 5547/1** Driving head (1No)
- WS 5548** Clay core tube (1 No)
- WS 5548/1** Clearing rod (1 No)
- WS 5548/2** Long driving point (1 No)
- WS 5548/3** Short driving point (1 No)
- WS 5548/4** Spanner (1 Box)
- WS 5548/5** Auger tool (1 No)
- WS 5548/6** Standard core tube (1 No)
- WS 5548/7** Hammer (1 No)
- WS 5548/8** Lifting/driving tool (1 No)
- WS 5548/9** Die hut and hand tap (1 No each)
- WS 5549** Steel carrying case (1 No)



Models WS 5550 DIMENSI JKR Probe

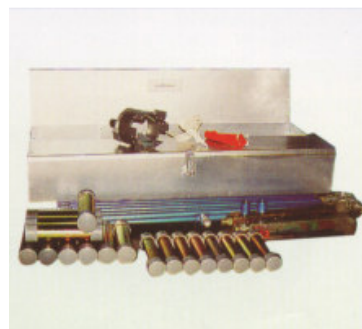
Consists of :

- WS 5550/1** Extension rod 1 m length (13 Nos)
- WS 5550/2** Rod coupling (13 Nos)
- WS 5550/3** Lifting tool (1 No)
- WS 5550/4** Driving point (2 Nos)
- WS 5550/5** Wrenches (2 Nos)
- WS 5550/6** Hammer guide rod (1 No)
- WS 5550/7** Steel carrying case (1 No)



WS 5551 DIMENSI Soil Sampling Kit come with a full range of selected items purpose for general sampling and hand boring up maximum diameter of 150 mm. It also depend on the specimen soil, the depth can reach up to 8.1 metres. The sampling Kit comprises on a metal carrying case and the following items :

- 1 No **WS 5551/1** Soil auger of 150 mm diameter
- 1 No **WS 5551/2** Soil auger of 100 mm diameter
- 1 No **WS 5551/3** Gravel auger of 150 mm diameter
- 1 No **WS 5551/4** Dutch auger, 50 mm diameter
- 10 Nos **WS 5551/5** Extension rods, each no with length of 1 metre
- 1 No **WS 5551/6** Chisel
- 1 No **WS 5551/7** Steel handle
- 2 Nos **WS 5551/8** Stillson wrenches
- 10 Nos **WS 5551/9** Sample tubes of 38 mm diameter x 230.1 mm long
- 2 Nos **WS 5551/10** Adaptors
- 1 No **WS 5551/11** Jarring link



DIMENSI Sample Tube

- WS 5552** DIMENSI Sample Tube, 35 mm Int. dia. x 230.1 mm length
- WS 5553** DIMENSI Relieved Bore, 35 mm int. dia. x 230.1 mm length
- WS 5554** DIMENSI Sample Tube, 38 mm int. dia. x 230.1 mm length
- WS 5555** DIMENSI Relieved Bore, 38 mm Int. dia. x 230.1 mm length

Adaptor

- WS 5552/1**
- WS 5553/1**
- WS 5554/1**
- WS 5555/1**

End Cap(Spare)

- WS 5552/2**
- WS 5553/2**
- WS 5554/2**
- WS 5555/2**

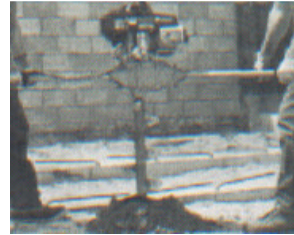
SITE INVESTIGATION

WS 5551 to WS 5560/1 Motorised Auger & Water Level Indicator & Powerhead Auger

WS 5551 DIMENSI Motorised Auger (Two Person 4.0 HP), two cycle industrial engine. The auger shaft is 1 3/8" in diameter. The centrifugal clutch and gears run in oil bath. Drilling torque is 155 ft/lbs and has a maximum rotation of 155 rpm. The motor can use leaded or unleaded petrol and is forced air cooled. The spark arresting muffler is approved standard. The throttle control is a spring return, twist grip, trottle. Augers and extensions (not included) are full flighted and 3' long. An adaptor coupler is needed for each auger size.

Accessories & Spare Parts

Auger O.D.	2"	3"	4"
Hub size (Hex)	WS 5551/1	WS 5551/2	WS 5551/3
Initial Flight	WS 5551/4	WS 5551/5	WS 5551/6
Extension	WS 5551/7	WS 5551/8	WS 5551/9
Adaptor Coupler	WS 5551/10	WS 5551/11	WS 5551/12



WS 5553

WS 5552 DIMENSI Cone Penetration, please write or call for a separate catalog on Cone Penetrometer Apparatus plus other insitu testing apparatus including Hazardous Waste Monitoring equipment.

Water Level Indicator, WS 5553 & WS 5554 provide an economical and accurate means of obtaining water level data in water wells under a wide variety of conditions. The standard lead electrode **WS 5555** assembly is 3/8" dia. Depth indication is provided by metal tag numbering every five feet and is powered by a self-contained battery. The cable is high tensile strength with two conductors which makes an outside ground connection unnecessary. The **WS 5556** thru **WS 5558** water level indicators are very similar to the indicators described above except the electrode is 1/2" and brass and it utilise a geophysical reel to hold the cable.



WS 5553 WS 5554

Model	Description	Model	Description
WS 5553	300'	WS 5557	1000'
WS 5554	500'	WS 5558	1500'
WS 5556	750'		



WS 5556 WS 5558

WS 5560 DIMENSI Powerhead Auger for use in connection of the sampling tubes in order to obtain disturbed or undisturbed samples of soils with power of 5.5 Hp, 2 cycles. Aviation carburettor drives in all the positions. Able to bore 400 mm dia. holes. Accessories are to be ordered separately.

- WS 5561** DIMENSI Auger 100mm dia. x 700mm length.
- WS 5562** DIMENSI Helical extension 100mm dia. x 700mm length.
- WS 5563** DIMENSI Auger 150mm dia. x 700mm length.
- WS 5564** DIMENSI Helical extension 150mm dia. x 700mm length.
- WS 5565** DIMENSI Auger 200mm dia. x 700mm length.
- WS 5566** DIMENSI Helical extension 200mm dia. x 700mm length.
- WS 5567** DIMENSI Auger 250mm dia. x 700mm length.
- WS 5568** DIMENSI Helical extension 250mm dia. x 700mm length.
- WS 5569** DIMENSI Auger 300mm dia. x 700mm length.
- WS 5570** DIMENSI Helical extension 300mm dia. x 700mm length.
- WS 5571** DIMENSI Auger 350mm dia. x 700mm length.
- WS 5572** DIMENSI Helical extension 350mm dia. x 700mm length.
- WS 5573** DIMENSI Auger 400mm dia. x 700mm length.
- WS 5574** DIMENSI Helical extension 400mm dia. x 700mm length.
- WS 5575** DIMENSI Extension rod 1 m long.
- WS 5576** DIMENSI sampling tube 38 mm dia.
- WS 5577** DIMENSI sampling tube 50 mm dia.
- WS 5578** DIMENSI sampling tube 100 mm dia.



WS 5560/1 Marsh Funnel is to be used for viscosity determination on routine check on most of the drilling rig conduct. The material is made of break-resistant plastic. Supplied complete with cup. Weight 1.1 kg.



20 Ton Medium Weight CPT Crawler With Automatic Anchoring

SITE INVESTIGATION

WS 5579 to WS 5586 Soil Sampling Kits & Proceq Testing Instrument

WS 5579 DIMENSI Sampling equipment for taking undisturbed soil sample of 38 mm dia. The purpose is to take the undisturbed soil sample in fine and soft soils. The sample is obtained by percussion, by lifting all the upper assembly which slides inside the jarring link and force applied onto the sample tube into the soil. Total net weight approx. 7.5 kg.

The Sampling Equipment consists of the followings :

WS 5579/1 DIMENSI T-handle
WS 5579/2 DIMENSI Extension rod of 900 mm length
WS 5579/3 DIMENSI Jarring link
WS 5579/4 DIMENSI Mild steel sample tube of 38 mm dia. by 230 mm length.

Accessories

WS 5580 DIMENSI Plastic end cap for the 38 mm dia. sample tube.
WS 5581 DIMENSI Hand extruder for the 38 mm dia. specimens. Weight 1.1 kg.

Replacement parts

WS 5583 DIMENSI Mild steel sample tube of 38 mm dia. by 230 mm length.
WS 5584 DIMENSI Stainless steel sample tube of 38 mm dia. by 230 mm length.

WS 5585 Force Measuring Units WIGA

For measuring forces from 50 to 20 222 kN.

- Calibration of jacks
- Long-term monitoring of foundation anchors and cable-stayed bridges
- Weighers

Measurement and data processing with WIGA display unit.

WS 5586 Display Units WIGA with Data Logger for force transducers with strain gauges, displacement transducer.

- Force measuring units
- Testing machines
- Force/displacement testers

Basic settings and measured values are shown digitally on a large clearly laid out display. Peak value saving and data processing on the PC.

SITE INVESTIGATION

WS 5595 to WS 5609 Elcometer Coating Thickness Gauges

ELCOMETER Coating Thickness Gauges

Gauges using magnetic principles offer a simple and effective method to measure coating thickness on a magnetic substrate. Electronic coating thickness instruments can be supplied to measure :

- Non-ferromagnetic materials on a ferrous substrate
- Any non-conductive material on a conductive substrate

Destructive methods for both ferrous and non-ferrous materials on non-conductive surfaces such as wood, concrete, plastic or glass using a test employing a precision cutter and optical measurement.

Cat. No	Description	Non-Destructive	Accuracy
WS 5595	157 Magnetic Pull-Off Gauge	Yes	± 15%
WS 5596	101 The Elcometer Magnetic Coating Thickness Gauge Multiple Ranges 0-50microns/0-18mm, 0-2mils/thou/0-3/4"	Yes	± 10%
WS 5600	111 The Inspector Magnetic Coating Thickness Gauge Multiple Ranges 0.25mm-6mm, 10-250 mils/thou	Yes	± 10%
WS 5601	211 Magnetic Coating Thickness Gauge (Non-Magnetic on Ferrous) Range 0-1000 microns/0-40 mils/thou	Yes	± 5%
WS 5602	121 Paint Inspection Gauge (P.I.G.)	No	± 10%
WS 5603	126 Dial Thickness Gauge	No	± 10%
WS 5604	195 Saberg Drill, Range 0-1600 microns/0-60 mils/thou	No	± 10%
WS 5605	145 Dual Scale Analogue Coating Thickness Gauge	Yes	± 5%
WS 5606	255 Digital Microprocessor Coating Thickness Gauge	Yes	± 5%
WS 5607	300 Digital Microprocessor Coating Thickness Gauge	Yes	± 1-3%
WS 5608	345 Digital Coating Thickness Gauge	Yes	± 3-5%
WS 5609	355 Digital Coating Thickness Measuring System (with modular probes)	Yes	± 1%

WS 5600 and WS 5601 Elcometer 111 & 211 "Inspector" commonly referred to as "Banana Gauge" retain the features which have made them both so successful for many years. The WS 5601 (211) with vee grooved base, rubber feet and clearer scale remains. The gauges are held against the test surface. The knurled thumbwheel is pushed forward so that the magnetic makes contact with the surface. The thumbwheel is then slowly rotated clockwise until the magnet pulls off, a click is heard and the indicator pops up. The thickness value is now indicated.

Specifications

	WS 5600 (111)	WS 5601 (211)
Ranges	0-1000 microns - Sc 1M 0-40 thou/mils - Sc 1E	0.25-1.8mm, 10-70 thou/mils -Sc 2M,2E 0.65-6.0mm, 25-250 thou/mils -Sc 8M,8E
Accuracy	± 5% of the reading or ± 2.5 microns/0.1 mils/thou whichever is the greater	± 10% of the reading or ± 2.5 microns/0.1 mils/thou whichever is the greater
Min. substrate thickness	0.4 mm (16 mils/thou)	1.5 mm (0.06")
Min. area of measurement	30 mm (1.18") diameter	12 mm (0.48") diameter
Min. diameter for measurement on bar material	20 mm (0.8")	50 mm (2")
Edge effects	Must be at least 6 mm (0.24") from edge	Must be at least 6 mm (0.24") from edge
Instruments Dimensions	200x60x30 mm (7.8"x2.4"x1.2")	228x51x32 mm(9.1"x2.0"x1.3")
Weight (overall)	290 grams (10 oz)	231 grams (8 oz)
Packing List	Instrument, Soft Hide Carrying Pouch, Calibration Foils, Security Neck Harness, Instruction Card	Instrument, Rigid Carrying Case, Calibration Foils, Security Wrist Harness, Instruction Manual
Can be used in accordance with test methods	ASTM D 1186; ASTM G 12; ASTM B 499; BS 5411 Part 11; BS 3900 Part C5;	ISO 2178; SSPC-PA2; DIN 50981
Certification Available	Certificate of Conformance Calibration Certificate	Certificate of Conformance Calibration Certificate



SITE INVESTIGATION

WS 5595 to WS 5609 Elcometer Coating Thickness Gauges

Specifications

	WS 5596 (101)	WS 5595 (157)
Ranges	0-600 microns, 0-25 thou(mils) - Sc 01 0-50 microns, 0-2 thou (mils) - Sc 02 0-250 microns, 0-2 thou (mils) - Sc 05 0-9 mm, 0-3 x 1/8 inch - Sc 15 0-10 and 10-60 thou (mils) - Sc 41	Each instrument has the followings scales printed on the body: Metric 0-600 microns Imperial 0-25 thou (mils) Linear 0-10 equally spaced divisions
Accuracy	Better than $\pm 10\%$ of the reading or ± 2.5 um/0.1 mils/thou whichever is the greater.	$\pm 15\%$ of the reading
Min. substrate thickness	1.5 mm (60 mils/thou) Recalibrate for thinner substrates	1.5 mm (60 mils/thou)
Min. area of measurement	38 mm x 15 mm (1.5" x 0.6")	20 mm (0.75") Radius
Min. diameter for measurement on bar material	25 mm (1")	12 mm (0.5")
Operating Plane	90 ° to the substrate	Vertical, above horizontal plane
Edge effects	Must be at least 20 mm (0.75") from any edge. Must be at least 75 mm (3") away from metal at right angles or flanges	6 mm (0.24") from edge
Instruments Dimensions	89x51x25 mm (3.5"x2"x1")	145x12.5mm (5.7"x0.5")
Weight (overall)	Instrument 184 g Instrument plus Packing Case 368g	32g
Packing List	Instrument, Carrying Case, Security Neck Harness, Calibration Foil (nominal thickness)	Instrument, Protective Case, Graph Card
Certification Available	Certificate of Conformance Calibration Certificate	Certificate of Conformance Calibration Certificate



SITE INVESTIGATION

WS 5610 to WS 5625 Dynamic Penetrometers And Accessories

WS 5610 DIMENSI Hand Operated Dynamic Penetrometer.

The equipment is used basically for establishing the thickness of different stratification to the depth of 12 metres and are widely used to establish the thickness of different stratification for investigation of the identified site for bridges, roads, and other general construction application. Overall, the ground is not compact, the penetration test with this equipment can perform up to the depth of 8 metres to 12 metres. The method procedure is traceable to DIN 4094.

The equipment basically consists of the following:

- WS 5611 DIMENSI** 10 kg rammer inbuilt handle for easy lifting.
- WS 5612 DIMENSI** Anvil
- WS 5613 DIMENSI** Sounding rod of 22 mm dia. x 1 m length (supplied in 11 pieces) complete with thread collar of M 16.
- WS 5614 DIMENSI** Guiding rod 22 mm dia. x 1 m length
- WS 5615 DIMENSI** Percussion head complete with handles
- WS 5616 DIMENSI** Grooved rod 22 mm dia. x 1 m length and sharpened point and threaded nipple M 16
- WS 5617 DIMENSI** Threaded nipple M 16 Allen Key
- WS 5618 DIMENSI** Driving point 90°, 5 cm² surface, 24.2 mm dia.
- WS 5619 DIMENSI** Driving point 90°, 10 cm² surface, 35.6 mm dia.
- WS 5620 DIMENSI** Base plate
- WS 5621 DIMENSI** Lifting tool for sounding rod
- WS 5622 DIMENSI** Carrying case

The testing procedure shall meet the following specification that are:

The rammer weight shall be at 10 kg, the rammer fall shall be at 50 cm and the carrying case dimension estimated at 117 cm x 37 cm x 21 cm.

The total weight estimated to 75 kg.

WS 5623 DIMENSI Motorised Operated Dynamic Penetrometer 10 kg rammer weight and free drop at 50 cm. Power for 220-240V, 50Hz, 1pH.

WS 5624 DIMENSI Motorised Operated Dynamic Penetrometer 20 kg rammer weight and free drop at 50 cm. Power for 220-240V, 50Hz, 1pH.

WS 5625 DIMENSI Motorised Operated Dynamic Penetrometer 30 kg rammer weight and free drop at 50 cm. Power for 220-240V, 50Hz, 1pH.

The application for **WS 5623, WS 5624 and WS 5625** are used for the establishment of different stratifications up to a maximum depth of 12 metres. The method of procedure is traceable to DIN 4094.

These penetrometers **WS 5623, WS 5624 and WS 5625** are used to establish the thickness of different stratification when investigating the recommended site for bridge, road, and other general construction works by calculating the number of blows necessary to drive the 90° driving point cone into the soil. Please note that in general if the ground is not that compact, the depth that this penetrometers equipment can reach to estimated of about 10 to 15 metres.

The equipment is basically comes with a wheel mounted tubular frame that is easily set up and assembled, a lifting and driving mechanism that is held in position by a system of pulleys and an electrically motor assembly.

Note :

The other parts of the Penetrometer equipment does not comes with the sounding rods, driving cones, nipples, rod lifting devices, grooved rod and carrying case. Separate order have to be placed.

Accessories and replacement parts

WS 5613 DIMENSI Sounding rod of 22 mm dia. x 1 m length complete with thread collar of M 16. Produced by special alloy steel.

WS 5616 DIMENSI Grooved rod 22 mm dia. x 1 m length and sharpened point and threaded nipple M 16. Purpose is for taking the undisturbed sample soil. Produced of special alloy steel. Weight 61 g.

WS 5617 DIMENSI Threaded nipple M 16 Allen Key

WS 5618 DIMENSI Driving point 90° surface, 5 cm² surface, 24.2 mm dia. Produced of special alloy steel. Weight 301 g.

WS 5619 DIMENSI Driving point 90° surface, 10 cm² surface, 35.6 mm dia. Produced of special alloy steel. Weight 501 g.

WS 5621 DIMENSI Lifting tool for sounding rod. The purpose is for taking out the sounding rod from the soil after the penetration test. Consisting of rod lifter complete with special clamp for the 22 mm dia. rods, handle for clamp and tubular lever 1.5 m long. Dimension of 301 x 151 x 101 mm. Total weight 11 kg.

WS 5622 DIMENSI Carrying case for Penetrometer equipment.

TYPE	WS 5623	WS 5624	WS 5625
Drop weight	10 kg	20 kg	30 kg
Fall height	500 mm	500 mm	200 mm
Driving rate	35 blow/min	35 blows/min	35 blow/min
Electric motor	¾ HP	¾ HP	¾ HP
Max length (unassembled)	1400 mm	1400 mm	1400 mm
Max length (assembly)	2750 mm	2750 mm	2750 mm
Max width	820 x 800 mm	820 x 800 mm	820 x 800 mm
Required powered supply	0.65 KVA	0.65 KVA	0.65 KVA
Total net weight (without sounding rods and rods accessories)	100 kg	110 kg	120 kg