

SERENCO

The background features a stylized, high-contrast illustration of a hand holding a power tool, possibly a drill or a similar device. The hand and tool are rendered in white and grey, set against a vibrant red background. The overall aesthetic is modern and industrial, with sharp lines and a limited color palette.

BOOTGUN

GOJAK

POWER
Start

CLARK

METRINCH

POWERHAND®

FLUID-VAC™



History

Serenco Nederland bv is a company built on tool experience that started in the mid 80's with the successful launch of Metrinch in Europe. Now in the 21st century Serenco is a well known name in the automotive and industrial aftermarkets as a preferred supplier for high quality tools like Metrinch, POWER-START, Powerhand, Bootgun, GoJak, RakJak and KS Tools.

Today several prominent car brands advise their dealers to use our outstanding equipment in their workshops and showrooms. Serenco will innovate and launch new products to keep up with the high demands from the automotive industry.

In the late 90's Serenco founded their own UK based company to serve this large market and this now is a successful operation supplying high quality tools to the industrial and automotive distributors.

Serenco Nederland distributes their products to 45 countries around the world and, together with their second operation in the UK and carefully selected distributors in other markets, it has established a solid reputation in the tool industry.

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Powerhand is fast becoming a recognized cordless power tool brand supplying the global market. All Powerhand products are manufactured to international quality and safety standards with the professional end user in mind. To further enhance the Powerhand brand a small range of air tools was introduced towards the end of 2007. This range has already proved so successful that two new impact wrenches join it for 2008.

Cordless Impact Wrench

IWJA-1924-K

1/2" - 19.2V - 1 batt

IWJA-1924-K2

1/2" - 19.2V - 2 batt

IWDB-1924-K

1/2" - 19.2V - 1 batt

IWDB-1924-K2

1/2" - 19.2V - 2 batt

IWDB-1924-K2L

1/2" - 19.2V - 2 batt - lamp

IWD-1924-K

1/2" - 19.2V - 1 batt

IWD-1924-K2

1/2" - 19.2V - 2 batt

IWD-1924-K2L

1/2" - 19.2V - 2 batt - lamp

IWCS-1443-K

3/8" - 14.4V - 1 batt

IWCS-1443-K2

3/8" - 14.4V - 2 batt



IWCS-1443

Model Number	IWJA-1924	IWDB-1924	IWD-1924	IWCS-1443
Battery	19.2V DC, Ni-Cd, 2Ah	19.2V DC, Ni-Cd, 2Ah	19.2V DC, Ni-Cd, 2Ah	14.4V DC, Ni-Cd, 1.3Ah
No-Load Speed	2000rpm	2000rpm	2000rpm	0 - 2400rpm
Max. Torque	540Nm	410Nm	380Nm	120Nm
Impacts Per Minute	2600	2600	2600	3150
Performance	Apply and remove 150 x 21mm wheel nuts on a full battery pack	Apply and remove 150 x 21mm wheel nuts on a full battery pack	Apply and remove 150 x 21mm wheel nuts on a full battery pack	Apply and remove 160 x 19mm wheel nuts on a full battery pack
Capacity (Square Drive)	1/2"	1/2"	1/2"	3/8"
Weight	3.2kg	3.0kg	3.0kg	2.0kg
Charging Time	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)
Supplied In	Blow mould case	Blow mould case	Blow mould case	Blow mould case

Ni-Mh batteries are available on request



IWDB-1924

Super high torque! 410Nm

- New design replaceable carbon brush motor. Especially for industrial construction, boat reparations and automobile workshops.
- Specially designed ventilation
 - Soft grip switch trigger
 - Battery slide clip mechanism secure connection with the main unit
 - Metal front housing enhances the durability of the tool

IWJA-1924

Ultimate torque! 540Nm

New design replaceable carbon brush motor.
Especially for industrial construction, boat reparations
and automobile workshops.

- 6 Torque settings
- Metal front housing enhances the durability of the tool
- Ergonomic soft grip handle for comfort of use
- Super power fan cooled motor
- 19.2V DC heavy duty battery pack



Torque Settings	
I	83Nm
II	132Nm
III	225Nm
IV	382Nm
V	431Nm
VI	540Nm

Adjustable Torque Settings!

Cordless Impact Drill / Drill

DE3S-1920-K

19.2V - 1 batt

DE3S-1920-K2

19.2V - 2 batt

DE3S-1440-K

14.4V - 1 batt

DE3S-1440-K2

14.4V - 2 batt

DE3S-1200-K

12V - 1 batt

DE3S-1200-K2

12V - 2 batt

DEHS-1920-K

19.2V - 1 batt

DEHS-1920-K2

19.2V - 2 batt

DEHS-1440-K

14.4V - 1 batt

DEHS-1440-K2

14.4V - 2 batt

DEHS-1200-K

12V - 1 batt

DEHS-1200-K2

12V - 2 batt



DEHS-1920

Model Number	DE3S-1920	DE3S-1440	DE3S-1200
Battery	19.2V DC, Ni-Cd, 2Ah	14.4V DC, Ni-Cd, 1.3Ah	12V DC, Ni-Cd, 1.3Ah
No-Load Speed	Low: 0 - 340rpm High: 0 - 1220rpm	Low: 0 - 325rpm High: 0 - 1170rpm	Low: 0 - 300rpm High: 0 - 1100rpm
Max. Torque	46Nm	40Nm	35Nm
Chuck Capacity	Keyless 13mm with lock	Keyless 10mm with lock	Keyless 10mm with lock
Torque Settings	17	17	17
Weight	2.4kg	1.9kg	1.8kg
Charging Time	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)
Supplied In	Blow mould case	Blow mould case	Blow mould case

Ni-Mh batteries are available on request

Model Number	DEHS-1920	DEH-1440	DEHS-1200
Battery	19.2V DC, Ni-Cd, 2Ah	14.4V DC, Ni-Cd, 1.3Ah	12V DC, Ni-Cd, 1.3Ah
No-Load Speed	Low: 0 - 470rpm High: 0 - 1700rpm	Low: 0 - 460rpm High: 0 - 1650rpm	Low: 0 - 440rpm High: 0 - 1600rpm
Max. Torque	28Nm	25Nm	21Nm
Impacts Per Minute	0 - 18000	0 - 16800	0 - 16560
Chuck Capacity	Keyless 13mm with lock	Keyless 10mm with lock	Keyless 10mm with lock
Torque Settings	17	17	17
Weight	2.4kg	2.0kg	1.8kg
Charging Time	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)
Supplied In	Blow mould case	Blow mould case	Blow mould case

Ni-Mh batteries are available on request



Cordless Impact Driver

IDCS-1920-K

1/4" - 19.2V - 1 batt

IDCS-1920-K2

1/4" - 19.2V - 2 batt

IDCS-1440-K

1/4" - 14.4V - 1 batt

IDCS-1440-K2

1/4" - 14.4V - 2 batt

IDCS-1200-K

1/4" - 12V - 1 batt

IDCS-1200-K2

1/4" - 12V - 2 batt

Model Number	IDCS-1920	IDCS-1440	IDCS-1200
Battery	19.2V DC, Ni-Cd, 2Ah	14.4V DC, Ni-Cd, 1.3Ah	12V DC, Ni-Cd, 1.3Ah
No-Load Speed	0 - 2500rpm	0 - 2400rpm	0 - 2300rpm
Max. Torque	150Nm	120Nm	100Nm
Impacts Per Minute	3300	3150	3000
Capacity (HEX Drive)	1/4"	1/4"	1/4"
Weight	2.2kg	2.0kg	1.8kg
Charging Time	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)
Supplied In	Blow mould case	Blow mould case	Blow mould case

Ni-Mh batteries are available on request



IDCS-1200

Cordless Caulking Gun

- Cordless sealing gun for both the sausage bag and cartridge applications
- Patented dripless mechanism
- Patented rapid plunger release mechanism
- Variable speed control function
- Automatic plunger end stop



CSA-07216

CSA-07216-K

7.2V - 600ml - 1 batt

CSA-07216-K2

7.2V - 600ml - 2 batt

CSA-07214-K

7.2V - 400ml - 1 batt

CSA-07214-K-2

7.2V - 400ml - 2 batt

CSA-04816-K

4.8V - 600ml - 1 batt

CSA-04816-K2

4.8V - 600ml - 2 batt

CSA-04814-K

4.8V - 400ml - 1 batt

CSA-04814-K2

4.8V - 400ml - 2 batt

CSA-02413

2.4V - 310ml - 1 batt

Model Number	CSA-07216	CSA-07214	CSA-04816	CSA-04814	CSA-02413
Battery	7.2V DC, Ni-Cd, 1.3Ah	7.2V DC, Ni-Cd, 1.3Ah	4.8V DC, Ni-Cd, 1.3Ah	4.8V DC, Ni-Cd, 1.3Ah	2.4V DC, Ni-Cd, 1.3Ah
Capacity	600ml	400ml	600ml	400ml	310ml
Expelling Force	392kg	392kg	300kg	300kg	300kg
Speed	366mm/min	366mm/min	372mm/min	372mm/min	198mm/min
Performance	20> x 9" tubes of silicone at room temperature on a full battery	20> x 9" tubes of silicone at room temperature on a full battery	± 20 x 9" tubes of silicone at room temperature on a full battery	± 20 x 9" tubes of silicone at room temperature on a full battery	± 10 x 9" tubes of silicone at room temperature on a full battery
Weight	2.33kg	2.26kg	2.1kg	2.1kg	1.9kg
Charging Time	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)
Supplied In	Blow mould case	Blow mould case	Blow mould case	Blow mould case	Carton box

Ni-Mh batteries are available on request

Cordless Angle Grinder



GDAD-1920-K

19.2V – 1 batt

GDAD-1920-K2

19.2V – 2 batt

Model Number	GDAD-1920
Battery	19.2V DC, Ni-Cd, 2Ah
No-Load Speed	8500rpm
Disc Diameter	115mm or 125mm
Spindle Thread Size	5/8" - 11 UNC
Weight	2.8kg
Charging Time	1 hour (auto cut-off)
Supplied In	Blow mould case

Ni-Mh batteries are available on request

Cordless Power Shear



PSBA-1920-K

19.2V – 1 batt

PSBA-1920-K2

19.2V – 2 batt

PSBA-1440-K

14.4V – 1 batt

PSBA-1440-K2

14.4V – 2 batt

Model Number	PSBA-1920	PSBA-1440
Battery	19.2V DC, Ni-Cd, 2Ah	14.4V DC, Ni-Cd, 2Ah
No-Load Speed	4500rpm	4500rpm
Capacity In Steel	1.6mm Max.	1.6mm Max.
Weight	2.2kg	2.1kg
Charging Time	1 hour (auto cut-off)	1 hour (auto cut-off)
Supplied In	Blow mould case	Blow mould case

Ni-Mh batteries are available on request

Cordless Ratchet



RWAA-1200-K2



RW-0722-K2

RWAA-1200-K2

3/8" - 12V – 2 batt

RW-0722-K2

3/8" - 7.2V – 2 batt

RWSS-0723-K2

3/8" - 7.2V – 2 batt

Model Number	RWAA-1204	RW-0722	RWSS-0723
Battery	12V DC, Ni-Cd, 1.2Ah	7.2V DC, Ni-Cd, 0.7Ah	7.2V DC, Ni-Cd, 1.2Ah
No-Load Speed	180rpm	180rpm	155rpm
Max. Torque	56Nm	24.5Nm	38Nm
Capacity (Square Drive)	1/2"	3/8"	3/8"
Overall Length	355mm	260mm	302mm
Performance	Fasten and remove 160 x M12 x 35L screws on a full (1.2Ah) battery pack Fasten and remove 200 x M12 x 35L screws on a full (2.0Ah) battery pack	Manually 55Nm Insert and remove 95x M10 x 20L screws on a full (0.7Ah) battery pack	Insert and remove 95x M10 x 20L screws on a full (1.2Ah) battery pack
Weight	1.8kg	0.8kg	1kg
Charging Time	1 hour (auto cut-off)	1 hour (auto cut-off)	1 hour (auto cut-off)
Supplied In	Blow mould case	Blow mould case	Blow mould case

Ni-Mh batteries are available on request

Cordless Power Polisher



POAA-1200-K2
12V – 2 batt

Model Number	POAA-1200
Battery	12V DC, Ni-Cd, 1.7Ah
No-Load Speed	2300rpm
Bonnet Diameter	17.8cm
Weight	2.02kg
Charging Time	1 hour (auto cut-off)

Ni-Mh batteries are available on request



Cordless Grease Gun

GG-A1201-K
12V – 1 batt
GG-A1201-K2
12V – 2 batt

Model Number	GG-A1201
Battery	12V DC, Ni-Cd, 1.3Ah
Delivery	75gr/min
Current	2.0 ~ 5.5A
Max. Pressure	420bar - 6000 psi
Acceptable Grease	Up to NLG1#2
Weight	3.7kg
Charging Time	1 hour (auto cut-off)
Supplied in	Blow mould case

Ni-Mh batteries are available on request

Cordless Lamp



PH-FTS1920
Universal lamp for Powerhand batteries.
Battery not included

Model Number	PH-FTS1920
Suitable For Batteries	12V, 14.4V, 19.2V
Brightness	100 Lumen
Bulb Life	110hrs
Run-Time	4hrs
Weight	440gr

Cordless LED Light



SIN-100.0036
Cordless LED light
30 LEDs, 3.6V 1.8Ah
Including charger, cradle, integral magnet and 12V car charging lead

SIN-100.0050
Cordless red LED light
30 LEDs, 3.6V 1.8Ah
For traffic application
Including integral magnet and 12V car charging lead

Model Number	SIN-100.0036	SIN-100.0050
30 LED's	18000 MCD (white light)	10000 MCD (red light)
Battery	3.6V DC, Ni-Cd, 1.8Ah	3.6V DC, Ni-Cd, 1.8Ah
Charger AC/DC	220/240V	Car charger
Charging Time	4 hours	4 hours
Battery Life	5 ~ 6 hours	5 ~ 6 hours

Ni-Mh batteries are available on request

Cordless Autofeed Screwdriver

ASAA-1440-K

14.4V – 1 batt

ASAA-1440-K2

14.4V – 2 batt



Model Number	ASAA-1440
Battery	14.4V DC, Ni-Cd, 2.0Ah
No-Load Speed	1900rpm
Max. Torque	33.8Nm
Fastener Range (Length)	25 - 55mm
Bit Specifications	154mm, 1/4", Ph2 Bit
Weight	2.2kg
Charging Time	1 hour (auto cut-off)
Supplied In	Blow mould case

Ni-Mh batteries are available on request

Cordless Screwdriver



DMS-480PH-E

- Cordless Screwdriver 4.8V
- Including 9 piece bit set
- Lightweight ergonomic design
- 2 Speed selection

High Torque 5Nm!

Model number	DMS-480PH-E
Battery	4.8V DC, Ni-Cd, 0.7Ah
No-Load Speed	Low: 0 - 180rpm High: 0 - 360rpm
Max. Torque	5Nm
Torque Settings	16
Capacity (HEX Drive)	1/4"
Weight	400gr
Charging Time	5 - 8 hours
Supplied In	Blow mould case

Ni-Mh batteries are available on request

Digital Torque Wrench



SIN-200.0340

Model Number	SIN-200.0030	SIN-200.0135	SIN-200.0200	SIN-200.0340
Accuracy *1	± 2.5% of reading from 20-100% maximum range, in increments of 0.1Nm (± 1.5% models are also available)			
Max Operation Range	6-30Nm	24-135Nm	40-200Nm	68-340Nm
Operation Mode	Peak/Track	Peak/Track	Peak/Track	Peak/Track
Unit Selection	in-lb, ft-lb, Nm	in-lb, ft-lb, Nm	in-lb, ft-lb, Nm	in-lb, ft-lb, Nm
Length (mm)	420	450	530	650
Square Drive (Inches)	1/4"	3/8" (1/2" available)	1/2" (3/8" available)	1/2"
Head Type	Lever Type Ratchet	Lever Type Ratchet	Lever Type Ratchet	Lever Type Ratchet
Gear Teeth	36	36	36	36
Data Memory Depth	30	30	30	30
Key	5	5	5	5
Battery *2	AA X 2	AA X 2	AA X 2	AA X 2
Battery Life	110hrs	110hrs	110hrs	110hrs
Battery Life (Standby)	1 year	1 year	1 year	1 year
Operating Temperature	-10°C ~ 60°C	-10°C ~ 60°C	-10°C ~ 60°C	-10°C ~ 60°C
Storage Temperature	-20°C ~ 70°C	-20°C ~ 70°C	-20°C ~ 70°C	-20°C ~ 70°C
Humidity	Up to 90% non-condensing	Up to 90% non-condensing	Up to 90% non-condensing	Up to 90% non-condensing
Drop Test	1m	1m	1m	1m
Vibration Test *3	10G	10G	10G	10G

*1: The torque accuracy is a typical value. The calibration point is at the middle line of the five anti-slip lines on the rubber handle.
For keeping the accuracy, calibrate the wrench annually. Calibration available via Serenco.

*2: Uses two AA batteries

*3: Horizontal and vertical test



Power Enforcer 1 : 3.5



PH-650
The solution for removing tight wheel nuts

Model Number	PH-650
Material	Chrome Vanadium (head)
Ratchet	60 teeth
Capacity (Square Drive)	1/2"
Grip	Ergonomic, PA 6 nylon
Max Torque	650Nm
Weight	1.65kg

V-Scope

V-Scope

This versatile ergonomically designed endoscope shows live images on the 3.5" TFT screen, takes still photos and even captures video. Designed for professionals this tool is simple to use straight out of the box giving accurate and rapid results.

Portable

The V-Scope is totally self-contained, no need for ancillary power packs or recording equipment. The palm sized V-Scope can be used anywhere, anytime.

Long Battery Life

The high capacity 3.7v lithium battery, has a run time of up to 4 hours and a recharge time of only 2 hours.

Data Storage

The supplied 512MB memory card enables massive storage capability for both photos and videos. Files can be transferred to your computer using the supplied USB cable or via the removable memory card. (Compatible memory cards are widely available from local stores.)

Screen

The V-Scope features a 3.5" TFT oil and scratch resistant wide screen giving sharp, clear images and longer life.

Fibre-Optic Shaft

Length 1m.

Diameter 5.5mm.

Designed to fit into the smallest apertures on both petrol and diesel engines but also suitable for other non-automotive applications. The camera is capable of capturing photos of up to 640 x 480 resolution and is protected by oil and scratch resistant tempered glass.

Variable LED Light control

Using four super-bright LED's (0-275 Lux/4cm) your view area can be illuminated clearly. The operator can control the level of brightness to give optimal image clarity.

Monitor Viewing

The V-Scope images can be viewed live through a TV monitor using the TV Out function and the supplied AV cable. This can facilitate further discussion and communication about live images

Ancillaries

Optional quick-change shaft lengths of up to 30m in length are available to further enhance the usability of the unit. (1.5m, 2m, 3m, 10m, 30m).



SIN-110.0100

Ø 5.5mm



Model Number	SIN-110.0100
Fibre-Optic & Light Source Specifications	
Image Sensor	CMOS Image Sensor
Resolution (Dynamic / Static)	320(H)*240(V) / 640(H)*480(V)
Size	
Tip (Insertion Tube) Diameter	5.5mm
Insertion Tube Length	1M~30M
Frame rate	~30 fps
S/N Ratio	42dB
Exposure	Automatic
White balance	Fix
Field of View (FOV)	67°
Depth of Field (DOF)	1.5cm~10cm
Light Source	4 White LED
System Specifications	
Power	DC5V
Display	3.5" TFT LCD Monitor 320*240 Pixels
Interface	Mini usb 1.1/ AV out / AV in/
Battery	Rechargeable Li-Polymer Battery (3.7V)
Video Out Format	NTSC & PAL
Recording medium	SD card (the capacity can be used up 2G)
Compression Format	MPEG4
Still Image Storage Format	JPEG (640*480)
Video Recording Format	ASF (320*240)
Language	English + option (one language)
Function	
Quick Snap (stills)	
Quick Video Recording	
Quick Review	
AV Out	
Video\Picture Viewer	

Air Tool Range

Reciprocating Saw



SIN-300.1500

1/2" Air Drill



SIN-300.1320

3/8" Air Drill



SIN-300.1300

3/8" Ratchet Kit



SIN-300.1410

Angled Die Grinder Kit



SIN-300.1210

Die Grinder Kit



SIN-300.1200

Model Number	SIN-300.1500	SIN-300.1320	SIN-300.1300	SIN-300.1410/1405	SIN-300.1210	SIN-300.1200
Air Inlet (NPT/BSP)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Average Air Consumption (l/min / cfm)	35.1 / 1.24	112 / 4	112 / 4	112 / 4	84 / 3	84 / 3
Sound dBA						
(Pressure/Power)	87	92	89	75/87	88/90	79
Air Pressure Max. (bar/PSI)	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90
Maximum Torque (ft/lb/Nm)				50/68		
Square Drive (inch)						
Free Speed (rpm)		700	1800	175	18000	25000
Strokes per minute	9000					
Stroke length (mm)	10					
Chuck Size (inch)		1/2"	3/8"			
Minimum Hose Size (I.D)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Collet Sizes (inch)					1/8" & 1/4"	1/8" & 1/4"
Length (mm)	236	225	180	267	178	158
Weight (kg)	0.6	1.35	0.93	1.2	0.73	1.3

Air Tool Range

3/8" Impact Wrench



SIN-300.1130

1/2" Impact Wrench



SIN-300.1100

3/4" Impact Wrench



SIN-300.1150

3/8" Ratchet



SIN-300.1405

3/8" Stubby Ratchet



SIN-300.1400

Mini Stubby Ratchet



SIN-300.1406

3/8" Mini Stubby Ratchet (Wobble)

SIN-300.1407

3/8" Mini Stubby Ratchet (Quick Release Design)

SIN-300.1408

1/4" Mini Stubby Ratchet

Model Number	SIN-300.1130	SIN-300.1100	SIN-300.1150	SIN-300.1400	SIN-300.1406	SIN-300.1407	SIN-300.1408
Air Inlet (NPT/BSP)	1/4"	1/4"	3/8"	1/4"	1/4"	1/4"	1/4"
Average Air Consumption (l/min / cfm)	84 / 3	126 / 4.5	151.20 / 5.4	140 / 5	71 / 2.55	71 / 2.55	71 / 2.55
Sound dBA (Pressure/Power)				95			
Air Pressure Max. (bar/PSI)	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90	6.2 / 90
Maximum Torque (ft/lb/Nm)	320/434	600/813	1100/1500	50/68	25/34	25/34	25/34
Square Drive (inch)	3/8"	1/2"	3/4"	3/8"	3/8"	3/8"	1/4"
Free Speed (rpm)	10000	7000	4500	250	270	270	270
Strokes per minute							
Stroke length (mm)							
Chuck Size (inch)							
Minimum Hose Size (I.D)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Collet Sizes (inch)							
Length (mm)	165	190	245	215	125	125	125
Weight (kg)	1.2	2.05	3.8	0.74	0.5	0.5	0.5

Maxscan is the new generation of powerful automotive code readers that allow the user to easily read and erase trouble codes. It is extremely user-friendly and works with all OBDII/EODB compliant vehicles sold in Europe from 1996, including those equipped with the newly released Controller Area Network (CAN) protocol, allowing users to keep up with the latest development in automotive diagnostic scanning. All models are multilingual (English, French, German, & Dutch), specifically designed for the European market and are able to read more than 1000 different car types.

OBDII/EODB Code Reader

MaxScan™  HR-OE307

- Works with all 1996 and newer vehicles that are OBDII/EODB (petrol 2001/diesel 2003 and later) compliant (including CAN).
- Reads and clears generic and manufacturer specific Diagnostic Trouble Codes.
- Codes (DTC) and turns off check engine light.
- Supports multiple trouble code requests: generic codes, pending codes and manufacturer specific codes.
- Reviews the emission readiness status of OBDII/EODB monitors.
- Turns off Multi Identification Light (MIL).
- Supports modes 3, 4, 7 and 9. Mode 9: retrieves Vehicle Identification Number (VIN) in vehicles dating from 2002 to current date.
- Easy-to-read backlit 2-line LCD display.
- Easy to use with one plug-in.
- Stand-alone unit with no need for an additional laptop computer to operate.
- Small in size and conveniently fits in your palm.
- Safely communicates with the on-board computer.
- Free CD software with over 8000 DTC definitions.
- No batteries needed, powered via OBDII/EODB cable.



OBDII/EODB Code Reader

MaxScan™  HR-OE407

- Works with all 1996 and newer vehicles that are OBDII/EODB compliant (incl. CAN).
- Reads and clears generic and manufacturer specific Diagnostic Trouble Codes.
- Reviews the emission readiness status of OBDII/EODB monitors.
- Turns off Multi Identification Light (MIL).
- Detects OBDII Freeze Frame Information.
- Supports modes 2, 3, 4, 7 and 9. Mode 9: retrieves Vehicle Identification Number (VIN) in vehicles dating from 2002 to current date.
- Wider vehicle coverage with CAN Protocol support.
- Code definitions displayed on unit screen.
- No batteries needed, powered by detachable OBDII/EODB cable.
- Updating by USB.
- Easy to use with friendly menu interface.
- Large, 128 x 64 easy-to-read backlit LCD display with adjustable contrast.
- Detachable and replaceable 16-pin OBDII/EODB cable.
- Multilingual Interface (English, Dutch, German & French).



VAG Code Reader (CAN)

MaxScan™  HR-VAGOE007

- Works with VAG cars (AUDI/SEAT/SKODA/VW) sold worldwide since 1990 compatible with the latest cars that require a direct CAN connection.
- Reads and clears Diagnostic Trouble Codes (DTC), of Engine, ABS, Airbags and automatic Transmission.
- Turns off Multi Identification Light (MIL).
- Supports modes 3, 4 and 7.
- Highly reliable and accurate.
- Easy-to-read backlit 2-line LCD display.
- Easy to use with one plug-in.
- Stand-alone unit with no need for an additional laptop computer to operate.
- Small in size and conveniently fits in your palm.
- Safely communicates with the on-board computer.
- Free CD software with over 8000 DTC definitions.
- No batteries needed, powered via OBDII/EODB cable.



VAG Code Reader (CAN)

MaxScan™  HR-VAGOE707

- Works with VAG cars (AUDI/SEAT/SKODA/VW) sold worldwide since 1990 compatible with the latest cars that require a direct CAN connection.
- Reads and clears Diagnostic Trouble Codes (DTC's) of Engine, ABS, Airbags, Automatic Transmission, Auto HVAC, Central Electric Box, Steering Wheel, Instrument panel, Aux Heat, CAN Gateway, AWD, Immobilizer, Central Locks, Navigation, Internal Monitor, Central Conv, Xenon Range, Radio.
- Turns off Multi Identification Light (MIL).
- Supports modes 3, 4 and 7.
- Retrieves ECU information.
- Highly reliable and accurate.
- Easy to use with one plug-in.
- Stand-alone unit with no need for an additional laptop computer to operate.
- Code definitions displayed on unit screen.
- Safely communicates with the on-board computer.
- No batteries needed, powered via detachable OBDII/EODB cable.
- Updating via USB.
- Easy to use with friendly menu interface.
- Large, 128 x 64 easy-to-read backlit LCD display with adjustable contrast.
- Detachable and replaceable 16-pin OBDII/EODB cable.
- Multilingual Interface (English, Dutch, German & French).



Model	HR-OE307 Universal	HR-OE407 Universal	CAN HR-VAGOE007	CAN HR-VAGOE707
Display	Backlit LCD, 2-line, 8 characters	128 x 64 backlit LCD	Backlit LCD, 2-line, 8 characters	128 x 64 backlit LCD
Operating Temperature	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)
External Power	12 V provided via vehicle battery	12 V provided via vehicle battery	12 V provided via vehicle battery	12 V provided via vehicle battery

One year warranty against material and/or manufacturing defects.

GoJak has been designed to improve on vehicle movement and repositioning in work shops, showrooms and body shops but is also invaluable in car parks and to a multitude of rescue services. To overcome different axle widths, wheelbases, wheel sizes and tyre widths every GoJak is self-loading. This system makes lifting and moving vehicles in any direction very quick and easy saving both time and money. With the three models available an immense range of vehicles weighing up to 2.820kg can be 'lifted & shifted'.

GoJak Model GJ5000



Model Number	GJ5000
Load Rating	565kg (2260kg 4 units)
Mechanism	Double pawl bi-directional ratchet
Tyre Widths	Fits tyres up to 23cm wide
Wheel Sizes	13" to most profile 16"
Casters	Heavy duty: 4 x 100mm
Rollers	Twin, high impact PVC, self lubricating
Unit Weight	13.7kg
Packed	2 units per box
Limited Warranty	2 year

GoJak Model GJ6200 L/R



Model Number	GJ6200 L/R
Load Rating	705kg (2820kg 4 units)
Mechanism	Double pawl bi-directional ratchet
Tyre Widths	Fits tyres up to 32cm wide
Wheel Sizes	13" to 19"
Casters	Heavy duty: 2 x 100mm, 2 x 125mm
Rollers	Twin, rust resistant, plated steel
Unit Weight	17.5kg
Packed	1 unit per box
Limited Warranty	2 year

GoJak Model GJ4500



Model Number	GJ4500
Load Rating	506kg (2025kg 4 units)
Mechanism	Double pawl bi-directional ratchet
Tyre Widths	Fits tyres up to 50cm wide
Wheel Sizes	13" to 19"
Casters	Heavy duty: 4 x 72.6mm
Rollers	4, rust resistant, plated steel
Unit Weight	19.5kg
Packed	1 unit per box
Limited Warranty	2 year

GoJak Trolley GJ0465



Stores 4 GoJaks in a convenient and orderly manner. Suitable for all GoJak models.





RakJak is the preferred product on frame racks, alignment machines, for emergency road services and in a variety of repair shops. Every RakJak is compact, powerful, super fast in use and virtually maintenance free. RakJak is simply the easiest and quickest way to lift any vehicle weighing up to 2 tons. Two 3 ton versions to complement the existing range are planned for introduction in the first half of 2008.

**RakJak Model
DU-RJDBT2L**



**RakJak Model
DU-RJTBT2L**



**RakJak Model
DU-RJTBT3L**



Model Number	DU-RJDBT2(L)
Capacity	2000kg at 8 bar (105 PSI)
Relaxed Height	146mm / 5,75"
Full Extension	350mm / 13,75"
Air Pressure	8 bar / 105 PSI
Weight	11.25kg / 25lbs
Limited Warranty	2 year

Model Number	DU-RJDBT2(L)
Capacity	2000kg at 8 bar (105 PSI)
Relaxed Height	173mm / 5,812"
Full Extension	457mm / 18"
Air Pressure	8 bar / 105 PSI
Weight	18.45kg / 41lbs
Limited Warranty	2 year

Model Number	DU-RJTBT3(L)
Capacity	3000kg at 8 bar (105 PSI)
Relaxed Height	18,5cm / 7,25"
Full Extension	477mm / 18"
Air Pressure	8 bar / 105 PSI
Weight	25kg / 61lbs
Limited Warranty	2 year

RakJak Model DU-RJDBT2



RakJak Model DU-RJTBT2



RakJak Model DU-RJWB

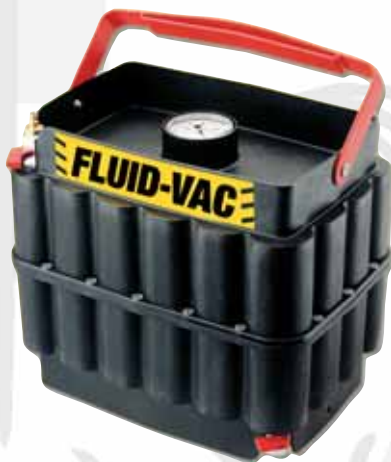
Convenient wall brackets keep your RakJaks accessible and off the floor. Organize your shop with these handy wall brackets. Lags and shields for masonry mounting included.



Fluid-Vac Liquid Extractor



Fluid-Vac is the perfect liquid extraction solution for modern vehicles. Many new engines are now designed without sump plugs or dip-sticks (sealed systems) making engine oil extraction very difficult, unless you have a Fluid-Vac. With its vehicle specific adaptors and features such as high vacuum capacity (-0.7 to -0.9), up to 10 litre fluid capacity, 24 hour vacuum 'storage', lightweight, portability and almost zero maintenance the Fluid-Vac is the liquid extraction solution for today's busy workshops.



Applications:

- Engine oil
- Engine coolant
- Brake oil
- Vacuum testing
- Diesel fuel system venting

Technical Requirements:

- Compressed air, 7 - 10 bar
- Air stock of 100 litres

Features:

- High vacuum, -0.7 to -0.9 bar
- Weighs only 3.5kg
- Vacuum can be stored up to 24 hours
- Small and portable
- No maintenance needed
- Capacity 8 - 10 litres

Contents:

- Container 14 litres with vacuum meter
- Venturi module
- Flexible hose with quick coupling 1.2m
- Suction probe Ø 6mm, 1m length
- Suction probe Ø 7mm, 1m length



Accessories

FL-NOVWO
Safety Connector

FL-OSSA
Liquid hose for adapter

FL-OVWAS
Silencer

FL-ODBSA
Adapter Daimler/Chrysler

FL-OVWSA
Adapter VW and Smart

FL-OBMWSA
Adapter BMW

POWER-START is manufactured in the UK and designed specifically for the professional user, the **POWER-START** high rate jump start pack is suitable for starting most 12V and 24V engines - automotive, marine and rail. With safety in mind, each starter pack incorporates many safety features. Reverse polarity warning reduces the risk of wrongful connection, spike protection circuits reduce the risk of damage to the vehicle on-board electronic systems. The on/off isolator switch enables a safe connection due to non-live cable clamps and also avoids unintentional short circuit.

PS-510
PS-700



PS-800
PS-1224



PS-1224-HD
PS-24-HD



POWER-START... Next Generation Starters
Designed and manufactured in the UK
by professionals for professionals

- Various starting solutions for all 12V and 24V vehicles
- Featuring high quality batteries and chargers
- Spike protection
- Audible reverse polarity warning
- On/Off isolator switches
- Fully insulated cable clamps
- Welding grade cables
- Recyclable polyethylene casings
- Full in-house after-sales service

TYPE VEHICLE					
Type POWER-START	Petrol Vehicle 12V	Diesel Vehicle 12V	Light Van/Truck 12V	Truck 24V	Heavy Diesel 24V
PS-510	xx	x			
PS-700	xxx	xxx	xx		
PS-800	xxx	xxx	xxx		
PS-1224	xxx	xxx	xxx	xx	x
PS-1224HD	xxx	xxx	xxx	xxx	xxx
PS-24HD				xxx	xxx

x = Sufficient, xx = Good, xxx = Excellent

POWER-START TECHNICAL SPECIFICATION						
	PS-510	PS-700	PS-800	PS-1224	PS-1224HD	PS-24HD
Voltage	12V DC	12V DC	12V DC	12V+24V DC	12V+24V DC	24V DC
Battery	20Ah	22Ah	2 x 20Ah	2 x 22Ah	2 x 26Ah	2 x 26Ah
Cranking Amps (1)	510	700	800	1200/700	1100/1100	1100
Peak Amps (2)	1200	1600	2400	3500/1600	3500	3500
Cable Clamp	Fully Insulated	Fully Insulated	Fully Insulated	Fully Insulated	Fully Insulated	Fully Insulated
Safety fuse					500A	500A
Cables	25mm ²	25mm ²	35mm ² _/1,7mtr	35mm ² _/1,7mtr	50mm ²	50mm ²
Polarity Warning	Yes	Yes	Yes	Yes	Yes	Yes
Spike Protection	Yes	Yes	Yes	Yes	Yes	Yes
Main Switch	Yes	Yes	Yes	Yes	Yes	Yes
Weight	9.5kg	9.5kg	17.5kg	17.9kg	26kg	26kg
Charger	Automatic 2A	Automatic 2A	Automatic 4A	Automatic 4A	Automatic 8A	Automatic 8A

1) The maximum current that can be drawn from a battery during cranking for a specified period of time, at a specified temperature and to a specified end of discharge voltage.
 2) The absolute peak instantaneous current measured during a discharge into the equivalent of a short circuit.

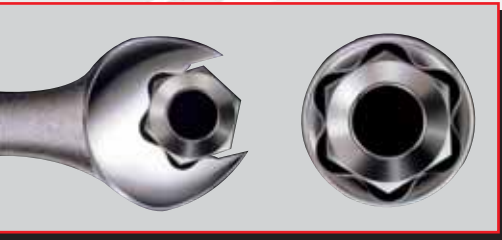
POWER-START Trolley

For the POWER-START series a trolley is available. The trolley is suitable for the PS-800 / PS-1224 / PS-1224HD / PS-24HD and is equipped with 10" high density plastic wheels suitable for all terrain use. The low point of gravity ensures stable and convenient handling.



The Difference that Counts

A nut or a bolt has flats and corners. The corners are more easily damaged and do not offer the optimum grip for a tool. In developing the Metrinch tool system Jozef Ruzicka had the aim to design sockets and spanners, which would not only have longer effective life, but would also ensure minimal damage to the fasteners on which they are used.



The patented Metrinch Wall Drive profile drives only on the flats and not on the corners. The dimensions of Metrinch sockets and spanners have been precisely calculated, so that a single Metrinch tool will operate on both metric and inch series fasteners.

For example, with a spanner

19 mm it is possible not only to tighten or undo a metric nut or bolt, but also the inch bolts 3/4" AF, 3/8" BSW and 7/16" BSF. Even when such bolts have become worn, damaged or completely rounded by abrasion. A further major advantage in terms of application is that the Metrinch Wall Drive profile can be used on open-end spanners as well as on sockets and ring-spanners. Metrinch open-end spanners always provide a 4-point grip instead of the 2-point grip characterizing the traditional profile.

Torque Loading

The Metrinch Wall Drive Profile was designed to provide a greater area of force application, compared with that applied by conventional tools. This profile, because of the buttress effect of its load bearing lugs, does not transmit the extreme peaks found when a tool with a wedge shaped profile is used. In distributing the torque load to the fastener through the flats, the Metrinch tool does



not only achieve greater force, but also lowers the possibility of distortion to the nut or bolt head.

Having a thin wall is an advantage in every socket. We can afford to provide such a wall, because with Metrinch spanners and sockets the force is absorbed where the wall has its greatest strength. Metrinch sockets are capable of exceeding the tightening torques specified in the DIN standard by 70 to 100 %, depending on the socket size.

Quality & Safety

The Metrinch Wall Drive profile is not the only feature we rely on. The steel our tools are made of forms another important aspect. To achieve the best, it is imperative to use a steel alloy this being chrome vanadium 46CrV4, which provides a margin of safety, particularly in conditions involving extreme stresses. We also attach great value to product finish, all our tools are chrome-plated and polished. This is not just for visual reasons, but because it provides the most effective protection against rust, even in extreme conditions. We take the principles of on-the-job safety and accident prevention very seriously. The patented Metrinch Wall Drive profile has been precisely calculated to ensure a secure and even application of torque to the flats of a nut or bolt and not to the corners. In most instances the greater the force applied to a Metrinch tool the more positive the grip becomes thus minimising the risk of injury to an operator which may be caused through a socket or a spanner slipping off a fastener. Laboratory test results prove that torque loadings of 1.5 times greater than those possible with a conventional socket can be achieved using a Metrinch tool.



Quality Assurance and Guarantee

All Metrinch tools are forged from high quality Chrome Vanadium Alloy Steel, and meet with the torque and hardness requirements necessary with the relevant international standards, DIN, U.S. Federal Specification and British Standard. Our factory has an exacting quality assurance program, monitored by a highly trained technical staff using the most up to date laboratory equipment. Constant inspections are made during the stages in the production process, and we make a 100% check of all components at the time of packing to make sure that our high standards

are maintained. Metrinch tools are used all over the world, and carry an unconditional worldwide free replacement guarantee if for any reason a tool happens to fail.

Award Winner

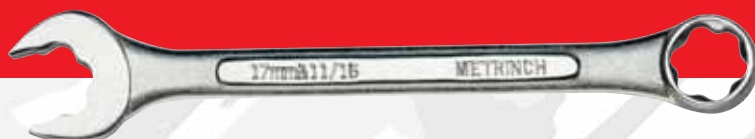
Discerning judges in Germany granted the Metrinch tool system the coveted award for innovation in design at Munich in 1991.



Applications of Metrinch sockets & combination spanners:

METRIC (MM)	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
INCH (SAE AF)	5/32	3/16	1/4	5/32	5/16	11/32	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	25/32	13/16	7/8	29/32	15/16	1	1 1/16	1 1/8	1 1/4	1 1/2	1 3/4	1 7/8	1 3/4
BSW						1/8		3/16		1/4		5/16			3/8		7/16		1/2			5/8			5/8				1 1/16
BS BSF								1/4		5/16		3/8			7/16		1/2		9/16			5/8			1 1/16				3/4
BA		6BA	4BA	3BA	2BA		0BA																						

Combination Spanners



Part no.	MM	INCH
MET-1108	8	5/16
MET-1109	9	11/32
MET-1110	10	3/8
MET-1111	11	7/16
MET-1112	12	15/32
MET-1113	13	1/2

Part no.	MM	INCH
MET-1114	14	9/16
MET-1115	15	19/32
MET-1116	16	5/8
MET-1117	17	11/16

Part no.	MM	INCH
MET-1118	18	23/32
MET-1119	19	3/4
MET-1120	20/21	13/16
MET-1122	22/23	7/8

Part no.	MM	INCH
MET-1124	24	15/16
MET-1126	26/27	1 1/16
MET-1129	29/30	1 3/16
MET-1132	31/32	1 1/4

Sockets



1/4"

Part no.	MM	INCH
MET-1404	4	5/32
MET-1405	5	3/16
MET-1406	6	1/4
MET-1407	7	9/32
MET-1408	8	5/16
MET-1409	9	11/32
MET-1410	10	3/8
MET-1411	11	7/16
MET-1412	12	15/32
MET-1413	13	1/2

3/8"

Part no.	MM	INCH
MET-1308	8	5/16
MET-1309	9	11/32
MET-1310	10	3/8
MET-1311	11	7/16
MET-1312	12	15/32
MET-1313	13	1/2
MET-1314	14	9/16
MET-1315	15	19/32
MET-1316	16	5/8
MET-1317	17	11/16
MET-1318	18	23/32
MET-1319	19	3/4
MET-1320	20/21	13/16
MET-1322	22	7/8

1/2"

Part no.	MM	INCH
MET-1210	10	3/8
MET-1211	11	7/16
MET-1212	12	15/32
MET-1213	13	1/2
MET-1214	14	9/16
MET-1215	15	19/32
MET-1216	16	5/8
MET-1217	17	11/16
MET-1218	18	23/32
MET-1219	19	3/4
MET-1220	20/21	13/16
MET-1222	22	7/8
MET-1223	23	29/32
MET-1224	24	15/16
MET-1225	25	1
MET-1226	26/27	1 1/16
MET-1228	28	1 1/8
MET-1229	29/30	1 3/16
MET-1231	31/32	1 1/4



1/4" deep

Part no.	MM	INCH
MET-1454	4	5/32
MET-1455	5	3/16
MET-1456	6	1/4
MET-1457	7	9/32
MET-1458	8	5/16
MET-1459	9	11/32
MET-1460	10	3/8
MET-1461	11	7/16
MET-1462	12	15/32
MET-1463	13	1/2

3/8" deep

Part no.	MM	INCH
MET-1350	10	3/8
MET-1351	11	7/16
MET-1352	12	15/32
MET-1353	13	1/2
MET-1354	14	9/16
MET-1355	15	19/32
MET-1356	16	5/8
MET-1357	17	11/16
MET-1358	18	23/32
MET-1359	19	3/4
MET-1360	20/21	13/16
MET-1362	22	7/8

1/2" deep

Part no.	MM	INCH
MET-1250	10	3/8
MET-1251	11	7/16
MET-1252	12	15/32
MET-1253	13	1/2
MET-1254	14	9/16
MET-1255	15	19/32
MET-1256	16	5/8
MET-1257	17	11/16
MET-1258	18	23/32
MET-1259	19	3/4
MET-1260	20/21	13/16
MET-1262	22	7/8
MET-1263	23	29/32
MET-1264	24	15/16
MET-1265	25	1
MET-1267	26/27	1 1/16
MET-1268	28	1 1/8
MET-1270	29/30	1 3/16
MET-1272	31/32	1 1/4

VDE Sockets & Accessories

1/2" VDE



Part no.	MM	INCH
MET-1210E	10	3/8"
MET-1213E	13	1/2
MET-1214E	14	9/16
MET-1216E	16	5/8
MET-1217E	17	11/16
MET-1219E	19	3/4
MET-1220E	20/21	13/16

1/2" Accessories VDE

Part no.	DESCRIPTION
MET-1290E	RATCHET VDE
MET-1297E	EXTENSION 125 MM VDE



Impact Sockets



3/8"

Part no.	MM	INCH
MET-2310	10	3/8
MET-2311	11	7/16
MET-2312	12	15/32
MET-2313	13	1/2
MET-2314	14	9/16
MET-2315	15	19/32
MET-2316	16	5/8
MET-2317	17	11/16
MET-2318	18	23/32
MET-2319	19	3/4
MET-2320	20	25/32
MET-2321	21	13/16
MET-2322	22	7/8



3/8" deep

Part no.	MM	INCH
MET-2350	10	3/8
MET-2351	11	7/16
MET-2352	12	15/32
MET-2353	13	15/32
MET-2354	14	9/16
MET-2355	15	19/32
MET-2356	16	5/8
MET-2357	17	11/16
MET-2358	18	23/32
MET-2359	19	3/4
MET-2360	20	25/32
MET-2361	21	13/16
MET-2362	22	7/8

1/2"

Part no.	MM	INCH
MET-2210	10	3/8
MET-2211	11	7/16
MET-2212	12	15/32
MET-2213	13	1/2
MET-2214	14	9/16
MET-2215	15	19/32
MET-2216	16	5/8
MET-2217	17	11/16
MET-2218	18	23/32
MET-2219	19	3/4
MET-2220	20	25/32
MET-2221	21	13/16
MET-2222	22	7/8
MET-2223	23	29/32
MET-2224	24	15/16
MET-2225	25	1
MET-2227	27	1 1/16
MET-2228	28	1 1/8
MET-2230	30	1 3/16
MET-2232	32	1 1/4

1/2" deep

Part no.	MM	INCH
MET-2250	10	3/8
MET-2251	11	7/16
MET-2252	12	15/32
MET-2253	13	1/2
MET-2254	14	9/16
MET-2255	15	19/32
MET-2256	16	5/8
MET-2257	17	11/16
MET-2258	18	23/32
MET-2259	19	3/4
MET-2260	20	25/32
MET-2261	21	13/16
MET-2262	22	7/8
MET-2263	23	29/32
MET-2264	24	15/16
MET-2265	25	1
MET-2267	27	1 1/16
MET-2268	28	1 1/8
MET-2270	30	1 3/16
MET-2272	32	1 1/4

Accessories

1/4"

Part no.	DESCRIPTION	PICT.
MET-1488	EXTENSION 75 MM	L
MET-1490	RATCHET	A
MET-1490SN	REPAIR SET FOR Q.R. RATCHET	C
MET-1491	FINGERTIGHT RATCHET	F
MET-1492	JOINT	G
MET-1493	EXTENSION 50 MM	L
MET-1494	1/4" MALE & 3/8" FEMALE ADAPTER	D
MET-1495	SPINNER HANDLE	H
MET-1496	EXTENSION 150 MM	L
MET-1497	T-PIECE	J
MET-1498	BIT HOLDER	K
MET-1499	EXTENSION 100 MM WOBBLE	M

3/8"

Part no.	DESCRIPTION	PICT.
MET-1387	EXTENSION 125 MM	L
MET-1388	EXTENSION 75 MM WOBBLE	M
MET-1390	RATCHET	A
MET-1390SN	REPAIR SET FOR Q.R. RATCHET	C
MET-1391	EXTENSION 75 MM	L
MET-1392	EXTENSION 150 MM WOBBLE	M
MET-1393	EXTENSION 150 MM	L
MET-1394	JOINT	G
MET-1395	SPARKPLUG SOCKET 16 MM & 5/8"	I
MET-1396	SPARKPLUG SOCKET 21 MM & 13/16"	B
MET-1397	EXTENSION 250 MM WOBBLE	M
MET-1398	T-PIECE	J
MET-1399	EXTENSION 40 MM WOBBLE	M

1/2"

Part no.	DESCRIPTION	PICT.
MET-1287	EXTENSION 75 MM	L
MET-1288	EXTENSION 75 MM WOBBLE	M
MET-1290	RATCHET	A
MET-1290SN	REPAIR SET FOR Q.R. RATCHET	C
MET-1291	EXTENSION 250 MM	L
MET-1292	SPARKPLUG SOCKET 16 MM & 5/8"	I
MET-1293	SPARKPLUG SOCKET 21 MM & 13/16"	B
MET-1294	T-PIECE	J
MET-1295	BREAKER BAR 410 MM	N
MET-1296	JOINT	G
MET-1297	EXTENSION 125 MM	L
MET-1298	1/2" FEMALE & 3/8" MALE ADAPTER	D
MET-1299	EXTENSION 125 MM WOBBLE	M



Cliprail Sets



MET-0220 1/4" 9 pieces

Sockets

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13
	INCH (SAE AF)	3/16	1/4	5/32	5/16	11/32	3/8	7/16	15/32	1/2
	1/4" SOCKET	•	•	•	•	•	•	•	•	•



MET-0230 1/4" 9 pieces deep

Sockets

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13
	INCH (SAE AF)	3/16	1/4	5/32	5/16	11/32	3/8	7/16	15/32	1/2
	1/4" SOCKET DEEP	•	•	•	•	•	•	•	•	•

MET-0320 3/8" 12 pieces

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	15	16	17	18	19	20	21	22
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8	
	3/8" SOCKET	•	•	•	•	•	•	•	•	•	•	•	•	•

MET-0330 3/8" 12 pieces deep

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	15	16	17	18	19	20	21	22
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8	
	3/8" SOCKET DEEP	•	•	•	•	•	•	•	•	•	•	•	•	•

MET-0321 3/8" 8 pieces

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	16	17	19
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4
	3/8" SOCKET	•	•	•	•	•	•	•	•

MET-0331 3/8" 8 pieces deep

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	16	17	19
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4
	3/8" SOCKET DEEP	•	•	•	•	•	•	•	•

MET-0430 1/2" 10 pieces

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	16	17	19	22	24
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4	7/8	15/16
	1/2" SOCKET	•	•	•	•	•	•	•	•	•	•

MET-0440 1/2" 10 pieces deep

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	16	17	19	22	24
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4	7/8	15/16
	1/2" SOCKET DEEP	•	•	•	•	•	•	•	•	•	•

MET-0431 1/2" 8 pieces

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	16	17	19
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4
	1/2" SOCKET	•	•	•	•	•	•	•	•

MET-0441 1/2" 8 pieces deep

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	16	17	19
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4
	1/2" SOCKET DEEP	•	•	•	•	•	•	•	•

Combination Spanner Sets



MET-0106 6 pieces

Combination spanners

Content Size	METRIC (MM)	10	11	13	14	16	17
	INCH (SAE AF)	3/8	7/16	1/2	9/16	5/8	11/16
	COMBINATION SPANNER	•	•	•	•	•	•

MET-0107 7 pieces

Combination spanners

Content Size	METRIC (MM)	10	11	13	14	16	17	19
	INCH (SAE AF)	3/8	7/16	1/2	9/16	5/8	11/16	3/4
	COMBINATION SPANNER	•	•	•	•	•	•	•



MET-0110 10 pieces

Combination spanners

Content Size	METRIC (MM)	10	11	12	13	14	15	16	17	18	19
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4
	COMBINATION SPANNER	•	•	•	•	•	•	•	•	•	•

MET-0125 14 pieces

Combination spanners

Content Size	METRIC (MM)	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	INCH (SAE AF)	5/16	11/32	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8		
	COMBINATION SPANNER	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

MET-0135 15 pieces

Combination spanners

Content Size	METRIC (MM)	8	9	10	11	12	13	14	15	17	19	22	23	24	26	27	29	30	31	32
	INCH (SAE AF)	5/16	11/32	3/8	7/16	15/32	1/2	9/16	19/32	11/16	3/4	7/8		15/16	1 1/16		1 3/16	30	31	32
	COMBINATION SPANNER	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Combination & Socket Set



MET-0563 Combination set 1/4" & 3/8" 63 pieces

Sockets & combination spanners

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	INCH (SAE AF)	3/16	1/4	9/32	5/16	11/32	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8	
	1/4" SOCKET	•	•	•	•	•	•	•	•	•									
	3/8" SOCKET			•	•	•	•	•	•	•	•	•	•	•	•	•			
	3/8" SOCKET DEEP																		
	COMBINATION SPANNER				•	•	•	•	•	•	•	•	•	•	•				

Accessories

- 3/8" MET-1390 RATCHET
- MET-1393 EXTENSION 150 MM
- MET-1394 JOINT
- MET-1396 SPARKPLUG SOCKET 21 MM & 13/16"

- 1/4" MET-1491 FINGERTIGHT RATCHET
- MET-1493 EXTENSION 50 MM
- MET-1494 1/4" MALE & 3/8" FEMALE ADAPTOR

- MET-1495 SPINNER HANDLE
- MET-1498 HOLDER FOR BITS

BIT SOCKETS: SIZES

FL	4,0	4,5	5,5	6,5	MM
PH	0	1	2	3	
PZ	1	2			
TX	10	15	20	25	27 30
HX	2,5	3,0	4,0	5,0	6,0

Combination & Socket Sets



MET-0076 Combination set 1/2" & 3/8" & 1/4" 76 pieces

Accessories

1/2"	3/8"	1/4"
MET-1290 RATCHET	MET-1390 RATCHET	MET-1491 FINGERTIGHT RATCHET
MET-1291 EXTENSION 250MM	MET-1391 EXTENSION 75MM	MET-1492 UNIVERSAL JOINT
MET-1294 T-PIECE	MET-1394 UNIVERSAL JOINT	MET-1493 EXTENSION 50MM
	MET-1395 SPARKPLUG SOCKET 16 MM & 5/8"	MET-1494 1/4" MALE & 3/8" FEMALE ADAPTOR
	MET-1396 SPARKPLUG SOCKET 21 MM & 13/16"	MET-1495 SPINNER HANDLE

Sockets & combination spanners

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	24	25	26	27	29	30	31	32	
	INCH (SAE AF)	3/16	1/4	5/32	5/16	11/32	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8	15/16	1	1 1/16			1 3/16				
	1/4" SOCKET	•	•	•	•	•	•	•	•	•																		
	1/4" SOCKET DEEP	•	•	•	•	•	•	•	•	•																		
	3/8" SOCKET						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	3/8" SOCKET DEEP						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	1/2" SOCKET						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	COMBINATION SPANNER						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



MET-0248 Socket set 1/4" 48 pieces

Sockets

Content Size	METRIC (MM)	4	5	6	7	8	9	10	11	12	13	
	INCH (SAE AF)	5/32	3/16	1/4	5/32	3/16	11/32	3/8	7/16	15/32	1/2	
	1/4" SOCKET	•	•	•	•	•	•	•	•	•	•	•
	1/4" SOCKET DEEP	•	•	•	•	•	•	•	•	•	•	•

Accessories

1/4"
MET-1486 SPINNER HANDLE MAGNETIC
MET-1490 RATCHET
MET-1493 EXTENSION 50 MM
MET-1496 EXTENSION 150 MM

BITS: SIZES

FL	4,0	4,5	5,5	6,5	MM
PZ	0	I	2	3	
PH	0	I	2	3	
HX	2,5	3,0	4,0	5,0	6,0
TX	10	15	20	25	27
					30

BIT ADAPTOR



MET-0300 Socket set 3/8" & 1/4" 25 pieces

Sockets

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13	14	16	17	19	20	21	22
	INCH (SAE AF)	3/16	1/4	5/32	5/16	11/32	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4	13/16	7/8	
	1/4" SOCKET	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	3/8" SOCKET										•	•	•	•	•	•	•

Accessories

3/8"	1/4"
MET-1390 RATCHET	MET-1491 FINGERTIGHT RATCHET
MET-1392 EXTENTION 150 MM WOBBLE	MET-1492 JOINT
MET-1394 UNIVERSAL JOINT	MET-1493 EXTENSION 50 MM
MET-1395 SPARKPLUG SOCKET 16 MM & 5/8"	MET-1494 1/4" MALE & 3/8" FEMALE ADAPTOR
MET-1396 SPARKPLUG SOCKET 21 MM & 13/16"	MET-1495 SPINNER HANDLE

Combination & Socket Sets



MET-0325 Socket set 1/4" 37 pieces

Sockets

Content Size	5	6	7	8	9	10	11	12
METRIC (MM)								
INCH (SAE AF)	3/16	1/4	5/32	3/16	1/2	3/8	7/16	1/2
1/4" SOCKET	•	•	•	•	•	•	•	•

Accessories

1/4"

- MET-1490 RATCHET
- MET-1492 JOINT
- MET-1493 EXTENSION 50 MM
- MET-1494 1/4" MALE & 3/8" FEMALE ADAPTOR
- MET-1495 SPINNER HANDLE
- MET-1497 T-PIECE
- MET-1498 HOLDER FOR BITS
- MET-1499 EXTENSION 100 MM WOBBLE

BITS: SIZES

PH	0	1	2	3		
FL	4,0	4,5	5,5	6,5	MM	
HX	2,5	3,0	4,0	5,0	6,0	MM
PZ	1	2				
TX	10	15	20	25	27	30



MET-0427 Socket set 1/2" 26 pieces

Accessories

1/2"

- MET-1290 RATCHET
- MET-1291 EXTENSION 250MM
- MET-1292 SPARKPLUG SOCKET 16 MM & 5/8"
- MET-1293 SPARKPLUG SOCKET 21 MM & 13/16"
- MET-1294 T-PIECE
- MET-1296 JOINT
- MET-1299 EXTENSION 125 MM WOBBLE

Sockets

Content Size	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
METRIC (MM)																							
INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8	29/32	15/16	1	1 1/16	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
1/2" SOCKET	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



MET-0450 Combination set 1/2" 30 pieces

Accessories

1/2"

- MET-1290 RATCHET
- MET-1293 SPARKPLUG SOCKET 21 MM & 13/16"
- MET-1295 BREAKER BAR 410 MM
- MET-1296 JOINT
- MET-1299 EXTENSION 125 MM WOBBLE

Sockets & combination spanners

Content Size	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
METRIC (MM)																							
INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8	29/32	15/16	1	1 1/16	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
1/2" SOCKETS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
COMBINATION SPANNER	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Combination & Socket Sets



MET-0525 Socket set 3/8" 14 pieces

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	16	17	19
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4
	3/8" SOCKET	•	•	•	•	•	•	•	•

Accessories

- 3/8"
- MET-1390 RATCHET
- MET-1391 EXTENSION 75 MM
- MET-1393 EXTENSION 150 MM
- MET-1395 SPARKPLUG SOCKET 16 MM & 5/8"
- MET-1396 SPARKPLUG SOCKET 21 MM & 13/16"
- MET-1399 EXTENSION 40 MM WOBBLE



MET-0559 Combination set 1/4" & 3/8" 59 pieces

Sockets & combination spanners

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	INCH (SAE AF)	3/16	1/4	9/32	5/16	11/32	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16	7/8	
	1/4" SOCKET	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3/8" SOCKET							•	•	•	•	•	•	•	•	•	•	•	•	•
3/8" SOCKET DEEP							•	•	•	•	•	•	•	•	•	•	•	•	•
COMBINATION SPANNER							•	•	•	•	•	•	•	•	•	•	•	•	•

Accessories

- 3/8"
- MET-1388 EXTENSION 75 MM WOBBLE
- MET-1390 RATCHET
- MET-1393 EXTENSION 150 MM
- MET-1394 JOINT
- MET-1396 SPARKPLUG SOCKET 21 MM & 13/16"

BIT SOCKETS: SIZES

FL	4,0	5,5	6,5	MM
PH	1	2	3	
PZ	1	2	3	
TX	10	15	20	27 30

1/4"

- MET-1488 EXTENSION 75 MM
- MET-1491 FINGERTIGHT RATCHET
- MET-1494 1/4" MALE & 3/8" FEMALE ADAPTOR
- MET-1495 SPINNER HANDLE



MET-0625 Combination set 1/4" & 3/8" 37 pieces

Sockets & combination spanners

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13	14	16	17	19
	INCH (SAE AF)	3/16	1/4	9/32	5/16	11/32	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4
	1/4" SOCKET	•	•	•	•	•	•	•	•	•	•	•	•	•
3/8" SOCKET							•	•	•	•	•	•	•	
3/8" SOCKET DEEP							•	•	•	•	•	•	•	
COMBINATION SPANNER							•	•	•	•	•	•	•	

Accessories

- 3/8"
- MET-1390 RATCHET
- MET-1391 EXTENSION 75 MM
- MET-1393 EXTENSION 150 MM
- MET-1394 JOINT
- MET-1395 SPARKPLUG SOCKET 16 MM & 5/8"
- MET-1396 SPARKPLUG SOCKET 21 MM & 13/16"
- MET-1399 EXTENSION 40 MM WOBBLE

1/4"

- MET-1494 1/4" MALE & 3/8" FEMALE ADAPTOR
- MET-1495 SPINNER HANDLE

Combination & Socket Sets



MET-0650 Combination set 1/2" & 3/8" & 1/4" 50 pieces

Accessories

- 1/2"
 MET-1288 EXTENSION 75 MM WOBBLE
 MET-1290 RATCHET
 MET-1291 EXTENSION 250 MM
 MET-1294 T-PIECE
 MET-1295 BREAKER BAR 410 MM
 MET-1297 EXTENSION 125 MM

- 3/8"
 MET-1387 EXTENSION 125 MM
 MET-1390 RATCHET
 MET-1391 EXTENSION 75 MM
 MET-1394 JOINT
 MET-1395 SPARKPLUG SOCKET 16 MM & 5/8"
 MET-1396 SPARKPLUG SOCKET 21 MM & 13/16"
 MET-1399 EXTENSION 40 MM WOBBLE

- 1/4"
 MET-1494 1/4" MALE & 3/8" FEMALE ADAPTOR
 MET-1495 SPINNER HANDLE

Sockets & combination spanners

Content Size	METRIC (MM)	5	6	7	8	9	10	11	12	13	14	16	17	19	20	21	22	24	26	27	29	30	31	32	
INCH (SAE AF)		3/16	1/4	5/32	5/16	11/32	3/8	7/16	15/32	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1 1/16	1 1/8		1 3/16		1 1/4		
1/4" SOCKET													
3/8" SOCKET																		
3/8" SOCKET DEEP																		
1/2" SOCKET													
COMBINATION SPANNER						



MET-0109E Socket set 1/2" 9 pieces VDE

Sockets

Content Size	METRIC (MM)	10	13	14	16	17	19	20	21
INCH (SAE AF)		3/8	1/2	9/16	5/8	11/16	3/4	25/32	13/16
1/2" VDE SOCKET	

Accessories

- 1/2" VDE
 MET-1290E RATCHET VDE
 MET-1297E EXTENSION 125 MM VDE

Impact Sets



MET-2300 3/8" 11 pieces

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	15	16	17	18	19	21
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16
	3/8" IMPACT SOCKET	•	•	•	•	•	•	•	•	•	•	•



MET-2305 3/8" 11 pieces deep

Sockets

Content Size	METRIC (MM)	10	11	12	13	14	15	16	17	18	19	21
	INCH (SAE AF)	3/8	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	13/16
	3/8" IMPACT SOCKET DEEP	•	•	•	•	•	•	•	•	•	•	•



MET-2400 1/2" 15 pieces

Sockets

Content Size	METRIC (MM)	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	INCH (SAE AF)	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	25/32	13/16	7/8	29/32	15/16	1
	1/2" IMPACT SOCKET	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



MET-2450 1/2" 15 pieces deep

Sockets

Content Size	METRIC (MM)	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	INCH (SAE AF)	7/16	15/32	1/2	9/16	19/32	5/8	11/16	23/32	3/4	25/32	13/16	7/8	29/32	15/16	1
	1/2" IMPACT SOCKET DEEP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



MET-2460 Wheelnut set 1/2" 6 pieces

Sockets

Content Size	METRIC (MM)	17	19	21
	INCH (SAE AF)	11/16	3/4	13/16
	1/2" SOCKETS	•	•	•
	1/2" IMPACT SOCKET DEEP	•	•	•

Bootgun Pneumatic Fitting Tool

If you've ever tried to replace the CV boots on a car, you will appreciate just how difficult it is to actually get the boot onto the drive shaft. Although we can't do anything about the stripping down of the wheel and wheel hub, we can make life easier when putting on the boot itself. This ingenious tool, operated by air, opens up the flexible boot effortlessly enabling simple fitting onto the shaft, totally eliminating the need for lubrication and the struggling involved with the old fashioned cone method.

BG-110



Model Number	BG-110
Suitable for	Flexible boots 15 - 115mm
Max. Pressure	8 bar (110 PSI)
Connection	1/4" - 18 NPT
Weight	2.2kg
Warranty	2 years



Steering Rack Boot



- BG-DBSR100
- BG-DBSR200
- BG-DBSR300
- BG-DBSR400
- BG-DBSR500
- BG-DBSR600

A range of 6 universal stretchy steering rack boots kits cover 98% of all car applications.
Contents:
 2 x steering rack boots
 4 x nylon ties
 1 x fitting cone



BG-DBSRST1

Starter pack
 Including 6 different universal stretchy steering rack boot kits, BG-DBSR100 ~ BG-DBSR600



BG-UB414

Universal stretchy steering rack boot kit. Made from high quality neoprene rubber to suit all cars and light commercials.
Contents: 2 x universal steering rack boots, 4 x nylon ties, 1 x fitting cone



BG-DBSRPS100 ~

BG-DBSRPS300

Range of 3 universal stretchy steering rack boot kits with breather pipe.
Contents: 2 x steering rack boots, 4 x nylon ties, 1 x fitting cone

CV Boot

- Made from high quality neoprene rubber to suit all cars and light commercials
- Easy fit - stretch over fitting cone using special spray or fit using the Bootgun air operated CV boot fitting tool
- Reduced fitting time - dismantling not necessary
- Two year warranty on all boots

No More:

- Waiting for parts
- Dismantling of CV joint
- Large stock holding



BG-DBC100 ~ BG-DBC800

A range of 8 CV boots that cover 98% of all car applications

Contents:

1 x flexible boot, 1 x sachet 60gr grease, 2 x stainless steel clamps



BG-DBC8

Starter pack

Including 8 different CV boot kits, BG-DBC100 ~ BG-DBC800. Incl. vehicle application list



BG-CV96

Universal flexible boot:

For drive shafts of

Ø 19 - 27mm

CV-joint size

Ø 58 - 105mm

Flexibility

600%

Temperature range

-40°C ~ 110°C

Material

Neoprene

Contents: 1 x flexible boot, 1 x sachet 60gr grease, 2 x stainless steel clamps

BG-CV88

Maxi boot universal flexible boot:

For drive shafts size

Ø 28 - 40mm

CV-joint size

Ø 80 - 125mm

Flexibility

600%

Temperature range

-40°C ~ 110°C

Material

Neoprene

Contents: 1 x flexible boot, 1 x sachet 60gr grease, 2 x stainless steel clamps

BG-CV96TWINP

Universal twin pack

Contents: 2 x CV96 boots, 1 x lubricant, 4 x nylon ties, 1 x fitting cone, 1 x lubricant spray



BG-MC1

Ear clamp small
Diameter: 19 - 40mm
Pack size: 100

BG-MC2

Ear clamp large
Diameter: 50 - 110mm
Pack size: 100

BG-CV96-12

Bulk pack BG-CV96

Contents: 12 x universal CV boots, 12 x sachet 60gr grease, 24 x stainless steel clamps

BG-ULTRA

Universal stretchy cut to size CV boot kit for passenger vehicles

For drive shafts size:

Ø 19 - 28mm

CV-joint size:

Ø 56 - 110mm

Contents: 1 x universal CV boot, 2 x nylon ties, 1 x sachets 60gr grease



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