

# Handheld Hydraulic Construction Equipment

Powerful, lightweight and portable



# The best power-to-weight ratio

Construction and rental companies around the world are discovering the advantages of using hydraulics. They know that hydraulic equipment offers the best power-to-weight ratio of any system. And they appreciate that a hydraulic power pack is so light that two people can lift one into the back of a work vehicle.

## Easy to store, easy to move around

When you're not using the power packs, they're small enough to be stored on a shelf.

You can use the power packs virtually anywhere. Fitted with wheels and handles, they are easy to maneuver around building sites.

## A real cost advantage

Smaller construction and rental companies have been quick to understand the very real cost advantage of hydraulics. For the price of one compressor/breaker combination, you can buy two complete hydraulic power pack/breaker sets. In fact, you might not need a power pack at all: with the help of an oil flow divider and an extension hose, you can hook hydraulic tools directly to a hydraulic-powered carrier.

## Low fuel consumption

Many of the power packs are equipped with a fuel-saving power-on-demand (POD) system. POD reduces fuel consumption and extends service lifetime.

## Efficient cooling

The thermostatically-controlled oil cooler allows quick warm-up and helps protect the hydraulic oil from overheating. Correct working temperature is achieved within minutes – even during the winter.



# One power source, dozens of tools



The number of hydraulic tools we offer is growing. In this brochure you'll find:

- Light to super heavy-duty handheld breakers
- Ground rod drivers
- Rock drills
- Cut-off saws
- Post drivers
- Post hole borers
- Water pumps
- Post pullers
- Core drills

## Technical data

Type	Motor/Engine	Weight incl. oil	Dimensions L x W x H	Oil flow	Max. pressure	Fuel capacity	EHTMA class	Hose included	POD	Low engine oil shut-off	Electric start	Part number
		lb. (kg)	in. (mm)	gpm (l/min)	psi (bar)	gal. (l)						
<b>LP 9-20 P PAC</b>	9 HP Honda gasoline	163 (74)	23 x 21 x 27 (585 x 525 x 680)	5 (20)	2200 (150)	1.59 (6)	C	YES	YES	YES	NO	1807 0080 10
<b>LP 9-20 E PAC</b>	Electric 5.5 kW/3 x 400 V/16 A	154 (70)	23 x 21 x 27 (585 x 525 x 680)	5 (20)	2000 (140)		C	NO	NO	NO	YES	1807 0080 15
<b>LP 13-20 DE PAC</b>	10 HP Yanmar diesel	256 (116)	28 x 24 x 29 (705 x 600 x 745)	5 (20)	2000 (140)	1.45 (5.5)	C	NO	NO	NO	YES	1807 0110 15
<b>LP 13-30 P PAC</b>	13 HP Honda gasoline	201 (91)	28 x 24 x 29 (705 x 600 x 745)	5-8 (20-30)	2200 (155)	1.72 (6.5)	C/D	YES	YES	YES	NO	1807 0110 13
<b>LP 18-30 PE PAC</b>	18 HP B&S Vanguard gas.	243 (110)	28 x 28 x 29 (720 x 700 x 745)	5-8 (20-30)	2500 (172)	1.90 (7.2)	C/D	NO	NO	NO	YES	1807 0160 18
<b>LP 18-40 PE PAC</b>	18 HP B&S Vanguard gas.	243 (110)	28 x 28 x 29 (720 x 700 x 745)	5-10 (20-40)	2200 (155)	1.90 (7.2)	C/D/E	NO	NO	NO	YES	1807 0160 17
<b>LP 18-2x20 /1x40 Twin E PAC <sup>1)</sup></b>	Electric 11 kW/3 x 400 V/32 A	271 (123)	28 x 24 x 29 (705 x 600 x 745)	2 x 5 / 1 x 10 (2 x 20 / 1 x 40)	2200 (155)		C/E	NO	NO	NO	YES	1807 0160 22
<b>LP 18-2x20 /1x40 Twin PE PAC <sup>1)</sup></b>	18 HP B&S Vanguard petrol	243 (110)	28 x 28 x 29 (720 x 700 x 745)	2 x 5 / 1 x 10 (2 x 20 / 1 x 40)	2200 (155)	1.90 (7.2)	C/E	NO	NO	NO	YES	1807 0160 16

All power packs include a filter indicator.

<sup>1)</sup> Version with twin and single pump configuration and different flow and pressure settings also available. Please contact your Atlas Copco sales representative for further information.

# Hydraulics hit harder

The first time you use a hydraulic breaker, you're in for a surprise. Here's a compact, quiet tool that hits harder than any other type of breaker.

That's because hydraulics are more efficient than electric, pneumatic or gas-powered tools. For example, a 56-pound hydraulic breaker gives you the same hitting power as a 90-pound pneumatic breaker.

Thanks to their amazing impact energy, hydraulic breakers can be used on concrete, asphalt and frozen ground. You can, of course, also use them for trenching, tie-tamping, spike driving and general demolition.

## Easy to own

There's not much that can go wrong with an Atlas Copco hydraulic breaker. With only two moving parts, there's minimal wear and very few parts to replace.

## Breaker part numbers

Shank size	in.	7/8 x 3 1/4	1 x 4 1/4	1 1/8 x 6	1 1/4 x 6
	(mm)	(22 x 82.5)	(25 x 108)	(28 x 152)	(32 x 152)
LH 11		1801 1741 18			
LH 18			1801 3440 81	1801 3445 52	1801 3445 56
LH 19 E			1801 3440 82	1801 3445 53	1801 3445 57
LH 22			1801 3541 08	1801 3540 84	1801 3540 88
LH 23 E			1801 3540 83	1801 3540 85	1801 3540 89
LH 27				1801 3640 92	1801 3640 96
LH 28 E				1801 3640 93	1801 3640 97
LH 39				1801 3741 62	1801 3741 54
LH 40E				1801 3741 65	1801 3741 68

## Technical data

Type	Part No.	Weight lb. (kg)	Length in. (mm)	Oil flow gpm (l/min.)	Working pressure psi (bar)	Return line pressure maximum psi (bar)	Vibration level (ISO 8662-5) m/s <sup>2</sup> (H/A) <sup>4)</sup>	Impact rate			EHTMA class	
								(at 5 gpm)	(at 8 gpm)	(at 10 gpm)		
<b>Pick hammer</b>												
LH 11	1801 1741 18	23.8 (10.8)	23.6 (600)	5.3 (20)	1000-1300 (70-90)	150 (10)	10.1	2400			C	
<b>Standard breakers</b>												
LH 18	1801 3440 81	41.2 (18.7)	25.1 (638)	5.3 (20)	1300-1600 (90-110)	150 (10)	8.3	1600			C	
LH 22	1801 3541 08	46.1 <sup>1)</sup> -49.8 (20.9 <sup>1)</sup> -22.6)	26.9 (682)	7.9 (30) <sup>2)</sup>	1500-1800 (105-125)	215 (15)	11.4	1450	2160		D (C) <sup>2)</sup>	
LH 27	1801 3640 92	55.6 (25.2)	29.9 (760)	7.9 (30) <sup>2)</sup>	1500-1800 (105-125)	215 (15)	11.4	1270	1860		D (C) <sup>2)</sup>	
LH 39	1801 3741 62	71.0 (32.2)	29.9 (760)	7.9 (30) <sup>3)</sup>	1500-1800 (105-125)	215 (15)	14.2		1150	1500	D (E) <sup>3)</sup>	
<b>Ergonomic breakers</b>												
LH 19 E	1801 3440 82	42.1 (19.1)	25.1 (638)	5.3 (20)	1300-1600 (90-110)	150 (10)	3.5	1600			C	
LH 23 E	1801 3540 83	47.0 <sup>1)</sup> -50.7 (21.3 <sup>1)</sup> -23.0)	26.9 (682)	7.9 (30) <sup>2)</sup>	1500-1800 (105-125)	215 (15)	3.3	1450	2160		D (C) <sup>2)</sup>	
LH 28 E	1801 3640 93	56.4 (25.6)	29.9 (760)	7.9 (30) <sup>2)</sup>	1500-1800 (105-125)	215 (15)	3.4	1270	1860		D (C) <sup>2)</sup>	
LH 40 E	1801 3741 65	71.0 (33.1)	29.9 (760)	7.9 (30) <sup>3)</sup>	1500-1800 (105-125)	215 (15)	6.0		1150	1500	D (E) <sup>3)</sup>	
<b>Rock drill</b>												
Type	Part number	Drill shank Hex-in.	Weight without hoses and drill lb. (kg)	Service weight lb. (kg)	Oil flow gpm (l/min.)	Working pressure psi (bar)	Max back pressure psi (bar)	Impact rate bpm	Revolutions rpm	Torque ft. lb. (Nm)	Direction of rotation	EHTMA class
LHD 23 M	1801 3800 01	7/8 x 4 1/4	54 (24.5)	62.4 (28.3)	5.3-6.6 (20-25)	1450-2000 (100-140)	215 (15)	2400-3000	320-400	47.94 (65)	CW <sup>5)</sup>	C

<sup>1)</sup> 1" x 4 1/4" (25 x 108 mm) shank version

<sup>2)</sup> can be adjusted to 20 l/min (5.3 gpm)

<sup>3)</sup> can be adjusted to 40 l/min (10.6 gpm)

<sup>4)</sup> LH 11, LH 18/19 E, LH 22/23 E and LH 27/28 E measured at 5 gpm, LH 39/40 E measured at 8 gpm

<sup>5)</sup> Counterclockwise rotation is available on request



Hydraulics are reliable by nature. Working in a closed loop, dirt and moisture are kept out. And due to the no-spill, flat-face couplings, it's easy to keep the system clean.

### Front handle

The optional front handle for the LH 11

helps to increase control and reduce fatigue. It pivots 360° for optimal positioning and is easy to detach. Order part no. 3371 8010 40.



### Vibration-dampening handle

Standard on ergonomic breakers, the spring handle provides vibration dampening and is durable and easy to maintain.



## LH 1

### Horizontal, lightweight pick hammer

This D-handle breaker is ideal for horizontal work in brick, mortar and light concrete. It is one of the most powerful pick hammers on the market, featuring an impact energy of 18 foot pounds and impact rate of 2,400 bpm. With its optional front handle, the LH 11 is a popular choice for renovation, demolition and structural alteration.



## LH 18/19 E

### Lightweight, multi-purpose breakers

Used to break brickwork, frozen soil, asphalt, concrete, and for tamping and compaction. Delivering 49 foot pounds at 1,600 bpm (average), the LH 18 and LH 19 E are very effective breakers. They are popular with contractors and rentals for indoor and outdoor renovation and demolition jobs. They are preferred by major railroad companies.



## LH 22/23 E

### Medium weight, multi-purpose breakers

Among the best general purpose, medium weight breakers available in the 55-62 pound range, the LH 22 and LH 23 E are used by leading rental companies around the world. They are commonly used with a 5" asphalt chisel for road and maintenance applications, and work well in brickwork, frozen soil and concrete. LH 22 and LH 23 E can be used with both 7.9 gpm and 5.3 gpm power packs.



## LH 27/28 E

### Heavy-duty, multi-purpose breakers

These breakers give you heavy-duty breaking in frozen soil, asphalt and reinforced concrete and are considered to be among the best in their class. Delivering 81 foot pounds at 1,500 bpm (average) the LH 27 and LH 28 E are powerful and highly effective. They work at a standard flow rate of 7.9 gpm, and at 5.3 gpm with easy adjustment.



## LH 39/40 E

### Super heavy-duty breakers

Hitting at 111 foot pounds and delivering an average of 1,275 bpm, the LH 39 and LH 40 E are among the most powerful handheld breakers in the world. They are used for the most demanding jobs in heavy asphalt, reinforced concrete and foundations. Popular with contractors throughout North and South America as well as South Africa, they often are used instead of mini-excavators with mounted breaker attachments.



## LHD 23 M

### Rock drill

This lightweight tool is designed for drilling blast, anchor and rock-splitting holes. Used by contractors, utilities and military who need convenient and efficient drilling without large compressors. With standard integral steel, it drills diameters of up to 2 inches and depths of approximately 20 feet by using hydraulic power for impact and rotation. A small additional compressor is needed for flushing. Without air-flushing, it can be operated wholly by hydraulics and can drill holes up to 3.3 feet deep with a spiral hammer drill.

# Hydraulic tools for tough applications



## Cut-off saws

These powerful, light and compact saws can be used to cut through concrete, asphalt and steel. Their simple hydraulic design with direct drive reduces maintenance, especially in comparison with belt-driven saws. They are easy to use—even under the most demanding conditions—thanks to the open cutting face. With a lightweight cart you can use the saws for floor, road and other light surface jobs.



### Technical data

Type		LS 14 Cut-Off Saw	LS 16 Cut-Off Saw
Weight	lb. (kg)	21.6 (9.8)	23.4 (10.6)
Oil flow	gpm (l/min.)	5-8 (20-30)	5-10 (20-40)
Max oil pressure	psi (bar)	2500 (172)	2500 (172)
Number of revolutions	rpm	2500-4000	2000-4000
Speed	ft./s (m/s)	151-246 (46-75)	138-279 (42-85)
Blade size	in. (mm)	14 (355)	16 (405)
Arbor size	in. (mm)	1 (25.4)	1 (25.4)
Cutting depth	in. (mm)	5.3 (137)	6.3 (160)
EHTMA class		C/D	C/D/E
Part number		1809 0140 01	1809 0160 00



## Core drills

These powerful drills are ideal for jobs where there is no space for drill stands. Due to the non-kick back operation, you can still drill holes of up to 8 inches in diameter free-hand. Fully hydraulic, the tools can be used for wet diamond core drilling on the toughest jobs. The LCD core drill has no electrical components – for safe, spark-free operation inside buildings, in hazardous environments and even underwater.

### Technical data

Type		LCD 5	LCD 10	LCD 15	LCD 24
Weight	lb. (kg)	18 (8.2)	18 (8.2)	18 (8.2)	18 (8.2)
Oil flow	gpm (l/min.)	5.3 (20)	5.3 (20)	5.3 (20)	5.3 (20)
Length without drill	in. (mm)	16 (406)	16 (406)	16 (406)	16 (406)
Working pressure	psi (bar)	1160-2500 (80-172)	1160-2500 (80-172)	1160-2500 (80-172)	1160-2500 (80-172)
Speed of rotation	rpm	600	1000	1500	2400
Drill diameter	in. (mm)	3-8 (75-202)	2-4 (50-100)	1-3 (25-75)	0.5-1.2 (12-30)
Thread female (drive) <sup>1)</sup>		1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP
EHTMA class		C	C	C	C
Part number		1808 5121 06	1808 5121 11	1808 5121 16	1808 5121 25

<sup>1)</sup> 1/2" BSP male x 1 1/4 UNC male drive adaptor included for use of larger diameter core bits.



## Water pumps

Lightweight and compact submersible discharge pumps are used in a wide range of applications. These include continuous pumping of clean or contaminated water on building sites, in flooded excavations and cellars.

### Technical data

Type		LWP 2	LTP 3
Weight	lb. (kg)	23 (10.25)	28 (12.7)
Dimensions H x W	in. (mm)	10.5 x 8.5 (267 x 215)	14.2 x 11.9 (360 x 300)
Oil flow	gpm (l/min.)	4.8-6.4 (18-24)	6.9-10.1 (26-38)
Working pressure	psi (bar)	1500 (100)	2000 (140)
Max speed	rpm	4000	4200
Pump head max	ft. (m)	82 (25)	104 (32)
Pump flow max	gpm (l/min.)	222 (840)	507 (1920)
Discharge		2"	3"
Solid handling up to	in. (mm)	3/8" (10)	2 1/2" (60)
EHTMA class		C	D
Part number		1806 1014 34	1806 1014 35

## Post puller

The post puller is often used by road maintenance contractors. With hardened jaws and automatic chain tightening clamp, the Atlas Copco post puller is ideal for removing all types of wooden or steel posts including IPE, HPE, and UPE profiles, plus round/square steel tubes. A built-in hand lever gives a total pulling force of up to 11 tons.



### Technical data

Type		LPP 10HD
Weight	lb. (kg)	132 (60)
Oil flow	gpm (l/min)	5-10 (18-38)
Max working pressure	psi (bar)	2,320 (160)
Max back pressure	psi (bar)	435 (30)
Stroke length	in. (mm)	0.5-8 (12-200)
Pulling force	lb. (kg)	13,228 (6,000)
Full pulling force	lb. (kg)	22,045 (10,000)
EHTMA class		C/D
Part number		1801 8100 03

## Ground rod drivers

Well balanced and easy to use, these drivers come with a remote control operating valve. The ground rod drivers accommodate a wide range of driving requirements for ground rods to depths of 7-10 feet. When operated with an optional hose-mounted remote-controlled valve, the drivers can be run with both open- or closed-center systems.



### Technical data

Type		LGRD-RV 16	LGRD-RV 25
Weight Power unit	lb. (kg)	45 (20.5)	45 (20.5)
Weight with hoses & control valve	lb. (kg)	53 (24)	53 (24)
Max working pressure	psi (bar)	2000 (140)	2000 (140)
Oil flow	gpm (l/min.)	5-8 (18-30)	5-8 (18-30)
Impact rate at 30 l/min (8 gpm)	bpm	1740	1740
Hydraulic ports		1/2" BSP	1/2" BSP
Bushing diameter	in. (mm)	5/8 (16)	1 (25)
EHTMA class		C/D	C/D
Part Number		1801 3940 01	1801 3940 00

## Post drivers

Used for driving road barrier tubes, profiles, signposts, fences and a wide range of anchors. The post drivers provide stable, powerful, high speed driving for a variety of post sizes. When operated with an optional hose-mounted remote-controlled valve, the drivers can be run with both open- or closed-center systems.



### Technical data

Type		LPD-T	LPD-RV
Activation type		By trigger lever	By remote valve
Hydraulic system		Open-center	Open- or closed-center
Weight	lb. (kg)	68 (30.6)	64 (28.8)
Weight with hoses	lb. (kg)	75 (34)	
Weight with hoses etc	lb. (kg)		71 (32)
Max working pressure	psi (bar)	2000 (140)	2000 (140)
Oil flow	gpm (l/min.)	5-8 (18-30)	5-8 (18-30)
Impact rate at 30 l/min	bpm	1500	1500
Hydraulic ports		1/2" BSP	1/2" BSP
EHTMA class		C/D	C/D
Part number		1801 4040 00	1801 4050 00

### Post Driver Adaptors

	Part number
Universal adaptor	3371 8060 33
Round adaptor—3.8"	3371 8060 34
Square adaptor—2 1/8"	3371 8060 32

## Handheld post hole borer

Compact and efficient, this tool drills holes up to 4.3 feet deep and 3.5-13.8 inches in diameter. It offers reverse rotation and is designed for two-person operation. All augers have interchangeable bits and points.

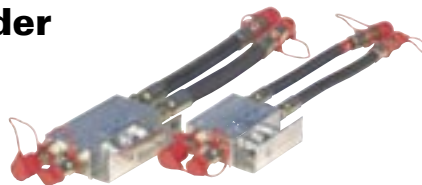


### Technical data

Type		LPHB
Weight without auger	lb. (kg)	44 (20)
Oil flow	gpm (l/min)	20-40 (5.3-10.6)
Working pressure	psi (bar)	1100-2150 (80-150)
Max back pressure	psi (bar)	725 (50)
Torque	ft. lbs. (Nm)	232 (315)
Speed of rotation	rpm	60-160
Auger size at L=870	in. (mm)	3.5-13.8 (90-350)
EHTMA class		C/D/E
Part number		1806 1014 33

## Oil flow divider

The oil flow divider allows you to run tools from hydraulic-powered carriers by reducing flow and pressure. An extension hose is required to connect the divider to the tool.



### Technical data

Type		LFD 20	LFD 30
Max oil flow rate in	gpm (l/min)	15.9 (60)	31.0 (120)
Regulated oil flow rate	gpm (l/min)	5.3-6.6 (20-25)	6.0-10 (25-38)
EHTMA class		C	D
Part number		1801 1632 29	1801 1642 32

## Extension hoses

By adding one or two extension hoses, you can use up to 70 feet of hose with no significant drop in pressure. The hoses are light and flexible and are fitted with flat-face, quick release couplings. (Extension hoses are included with LP 9-20 PAC and LP 13-30 P PAC).



### Technical data

Length	ft. (m)	23 (7)	39 (12)
Couplings: flat face quick release	dimension	1/2"	1/2"
EHTMA class		C/D	C/D
Part number		3371 8010 87	3371 8010 89

# A wide range of top quality steel

At Atlas Copco, we maintain a comprehensive range of steel so that you can select the right tool for the job.

Atlas Copco steel is among the hardest wearing on the market. A controlled heat treatment process imparts both strength and high wear resistance to deep surface layers while maintaining a tough shock resistant central core that resists breakage.

The impact face is milled resulting in better contact between the piston and the tool, improved transfer of energy, as well as less vibration and wear on both hammer and chisel.

For drill steel and other accessories, please see the Atlas Copco Accessories Catalog, or contact your local Atlas Copco representative.

	Flat to Flat						Point to Flat					
	7/8 x 3 1/4 in (22 x 82.5 mm)			1 x 4 1/4 in (25 x 108 mm)			1 1/8 x 6 in (28 x 152 mm)			1 1/4 x 6 in (32 x 152 mm)		
	W (in)	L (in)	Part no.	W (in)	L (in)	Part no.	W (in)	L (in)	Part no.	W (in)	L (in)	Part no.
<b>Moil point</b>		14	3083 4050 00		15	3083 4030 00		14	3083 3267 00		14	3083 3285 00
		18	3083 4050 10		18	3083 4030 10		18	3083 4015 10		18	3083 4000 10
		24	3083 4050 20		24	3083 4030 20		24	3083 4015 20		24	3083 4000 20
		36	3083 4050 30		36	3083 4030 30		36	3083 4015 30		36	3083 4000 30
<b>Narrow chisel</b>	1	14	3083 3303 00	1 1/8	15	3083 3309 00	1 1/4	14	3083 3268 00	1 3/8	14	3083 3286 00
	1	18	3083 4051 10	1 1/8	18	3083 4031 10	1 1/4	18	3083 4016 10	1 3/8	18	3083 4001 10
	1	24	3083 3304 00	1 1/8	24	3083 4031 20	1 1/4	24	3083 4016 20	1 3/8	24	3083 4001 20
	1	36	3083 4051 30	1 1/8	36	3083 4031 30	1 1/4	36	3083 4016 30	1 3/8	36	3083 4001 30
<b>Wide chisel</b>	3	14	3083 3305 00	3	15	3083 3310 00	3	15	3083 3289 00	3	15	3083 3295 00
	3	18	3083 4052 10	3	18	3083 4032 00	3	18	3083 4017 00	3	18	3083 4002 00
	3	24	3083 4052 20	3	24	3083 4032 10	3	24	3083 4017 10	3	24	3083 4002 10
<b>Wedge chisel</b>	1 3/8	15	3083 4057 00	2	15	3083 3313 00	2	16	3083 3294 00	2	16	3083 3300 00
<b>Digging chisel</b>	3	14	3083 3306 00	3	15	3083 3311 00	3	15	3083 3291 00	3	15	3083 3297 00
<b>Asphalt cutter</b>	4 3/4	13	3083 3307 00	4 3/4	13	3083 3312 00	5	13	3083 3292 00	5	13	3083 3298 00
<b>Clay spade</b>	5	17	3083 3308 00	5	16	3083 4035 00	5 1/2	15	3083 3293 00	5 1/2	15	3083 3299 00
<b>Shank for pad</b>		8	3083 4058 00		11	3083 4037 00		9	3083 3269 00		9	3083 3287 00
<b>Tamping pad, round</b>	7		3083 3252 10	7		3083 3252 10	7		3083 3301 00	7		3083 3301 00
<b>Tamping pad, square</b>	7		3083 3239 00	7		3083 3239 00	6		3083 3302 00	6		3083 3302 00
<b>Tamping pad, square</b>							8		3083 3197 00	8		3083 3197 00
<b>Stake driver</b>	2 1/2 ID		9245 9800 50	2 1/2 ID		9245 9800 50	2 1/2 ID		9245 9800 50	2 1/2 ID		9245 9800 50
<b>Stake driver</b>	3 ID		9245 9800 65	3 ID		9245 9800 65	3 ID		9245 9800 65	3 ID		9245 9800 65
<b>Stake driver shank</b>		9	9245 9912 41		9	9245 9997 32		9	3083 3269 00		9	3083 3287 00

Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.

For more information contact:



Tools Renewed, Inc.  
50 Budney Road  
Newington, CT 06111  
800-247-3639

Fax: 860-665-9821

Email: [sales@toolsrenewed.com](mailto:sales@toolsrenewed.com)

Web: [www.toolsrenewed.com](http://www.toolsrenewed.com)