POWER TOOLS





POWER TOOL Technical Basics



Battery type and variation:

Battery type	Ni-Cd	Ni-Mh	Li-lon
Nominal Voltage	1.2V	1.2V	3.6V
Energy / Size	300 Wh/L	340 Wh/L	450 Wh/L
Energy / weight	50 Wh/kg	65 Wh/kg	100~160 Wh/kg
Minimum voltage	0.7V	0.7V	2.5V
Operating temperature	-40~60°C	-20~60°C	-20~60C
Cycle durability	500~1000 times	500~1000 times	1000 times
Disadvantage	 Due to memory effect problem, it needs to be completely recharged and discharged after using ten times. Cadmium pollution problem, please recycle the battery. Lower self-discharging rate: 25~30%/month 	 It has less memory effect. After fifty times, it needs to be fully recharged and discharged. It makes less environmental pollution The Highest self-discharging rate: 30~35%/month 	 The elevating temperature shortens its life cycle. Poor in overcharging and discharging Need to have over charging and discharging protection The highest internal resistance and the lowest transient current (Suitable for the products which require low torque and power)
Advantage	 The recharging efficiency is high. Fast and simple to recharge. The lowest internal resistance and the highest transient current. (Suitable for the products which require high torque and power.) Maintains a constant voltage to terminal when it discharges. 	1. Higher battery capacity than Ni-Cd battery 2. Lower internal resistance, and lower transient current than Li-lon battery 3. Less memory effect than Ni-Cd battery 4. Less environment pollution than Ni-Cd battery. No Cadmium metal problem	 Lack of memory effect no need to fully recharge. Make the least pollution The lowest self-discharging rate: 5%~10%/month.

Battery life measuring method:

Using multimeter to measure: such as ProsKit® MT-1232 or MT-2017

- 1. Before measuring, charging the battery for one minute.
- 2. Set the multimeter to DCV function and measure the DC voltage: if the value is between 104~120%, which means the battery still in a good condition. If the value is extremely low, that means battery is almost exhausted.
- 3. The normal voltage for rechargeable battery: 3.6V: 3.7V~4.3V, 4.8V: 5.0V~5.8V, 7.2V: 7.5V~8.6V,

12V: 12.5V~14.4V, 14.4V: 15V~17.3V

► PT-1441A / PT-1441F **Cordless Drill Driver 14.4V**



















Removable battery pack for charging convenience



21+1 Adjustable torque settings

- No-load speed 0-550rpm
- 21 adjustable torque settings for screwing, and extra position for drilling purpose
- Maximum output torque up to 7nm
- 3/8" (10mm) keyless chuck for driver bits or drills
- Magnetic strip on the back for convenient operation
- Removable battery pack for charging convenience
- · Variable speed trigger for complete control

Model No.		PT-1441A	PT-1441F
	Max. Drilling capacity	Steel: Ø6mm Concrete: ø8mm Wood:Ø10	
	Torque setting	21+1 p	ositions
	Rated no load speed	One Gear Sp	eed: 0-550rpm
	Output torque	7 Nm (71.4 kgf-cm/62.0 lbf-in)	
Main body	Drive (Collet)	3/8" (10mm) I	Keyless Chuck
,	Special function	Switch for forward or reverse rotation, with drill function	
	Overall length	225mm	x 245mm
	Model No.	5PT-14	141-BAT
	Battery type	Ni	-Cd
	Battery voltage	14	I.4V
Battery	Battery capacity	1000	0mAh
	Charging time	3-5	hours
	Free running time	40min	
	Model No.	5PT-1441-ADA	5PT-1441F-ADF
	Input voltage	120V AC 60Hz	230V AC 50Hz
	Output voltage	DC 18V 400mA	DC 18V 400mA
Adapter	Adapter plug	A 💷	F •••
	Certificate		
Observe	Model No.	5PT-1	441-CH
Charger	Voltage	DC 18\	/ 400mA
Standard Accessories	Bits set	6pcs drill: Ø 1.5, 2.5, 3, 4, 5, 6mm 6pcs 25mm Driver Bits: ⊕ 5.0, 6.0 ∰ 41, #2 ∰ PZ#1, PZ#2 1 pc Magnetic insert bits holder 1 pc 45mm double ends driver bits # #2, ⊕ 6.0	
Others Adapter and Charger / Blo (380x280x95mm)			
	Optional bits set 5PT-1080-P1(13 pcs/set)		` '
Individual packing Color sleeve shrink		eve shrink	

Cordless Drill Driver 12V PT-1201A / PT-1201F















Variable speed trigger for complete control



Removable battery pack for charging convenience



16+1 adjustable torque settings

- No-load speed 0-550rpm
- 16 adjustable torque settings for screwing, and extra position for drilling purpose
- Maximum output torque up to 6nm
- 3/8" (10mm) keyless chuck for driver bits or drills
- Removable battery pack for charging convenience
- Variable speed trigger for complete control

Model No.		PT-1201A	PT-1201F
	Max. Drilling capacity	Steel: Ø6mm Concrete: ø8mm Wood:Ø10mm	
	Torque setting	16+	1 positions
	Rated no load speed	One Gear	Speed: 0-550rpm
Main body	Output torque	6Nm (61.2 k	gf-cm / 53.11 lbf-in)
Wall body	Drive (Collet)	3/8" (10mm) Keyless Chuck	
	Special function		ard or reverse rotation, drill function
	Overall length	225m	nm x 245mm
	Model No	5PT	-1201-BAT
	Battery type		Ni-Cd
Battery	Battery voltage		12V
Dallery	Battery capacity	1	000mAh
	Charging time	3	-5 hours
	Free running time	35min	
	Model No.	5PT-1201-ADA	5PT-1201-ADF
	Input voltage	120V AC 60Hz	230V AC 50Hz
	Output voltage	DC 15V 400mA	DC 15V 400mA
Adapter	Adapter plug	A LI	F •••
	Certificate	((%)	
Charas	Model No.	5P ⁻	T-1201-CH
Charger	Voltage	DC ·	15V 400mA
Standard accessories	Bits set	6pcs drill: Ø 1.5, 2.5, 3, 4, 5, 6mm 6pcs 25mm Driver Bits: ⊕ 5.0, 6.0 ⊕ #1, #2 ⊕ PZ#1, PZ#2 1 pc Magnetic insert bits holder 2 pcs 45mm double ends driver bits ⊕ #2, ⊕ 6.0 ⊕ #1, ⊕ 5.0	
	Others	Adapter and Charger	/ Blow-molded case
Optional bits	set	5PT-1080-P1(13 pcs/set)	
Individual packing		Color sleeve shrink	

Li-ion Cordless Drill Driver 10.8V ► PT-1080A / PT-1080F

















LED light provides convenient work in dark





Battery power indication

- No-Load speed 0-350/0-1100 rpm
- 21 adjustable torque settings for screwing, and extra position for drilling purpose
- Maximum output torque up to 14Nm
- 3/8" (10mm) keyless chuck for driver bits or drills
- Removable battery pack for charging convenience
- · Variable speed trigger for complete control

Model No.		PT-1080A	PT-1080F
	Max. Drilling capacity	Steel: Ø6mn	n Wood: Ø16mm
	Torque setting	21+1	positions
	Rated no load speed	two gear speed: 0-350/0-1100 rpm	
Main body	Output torque	14 Nm (142.8 k	gf-cm/123.9 lbf-in)
Iviairi bouy	Drive (Collet)	3/8" (0.8~10m	m) Keyless chuck
	Special function	Switch for forward or reverse rotation, with drill function 2 gear-speed switch LED battery power indicator	
	Overall length	215 mi	m×210 mm
	Model No.	5PT-1	1080-BAT
	Battery type	L	.i-ion
Battery	Battery voltage	10.8V	
Dallery	Battery capacity	1300mAh	
	Charging time	3-5 hours	
	Free running time	30min	
	Model No.	5PT-1080-ADA	5PT-1080-ADF
	Input voltage	120V AC 60Hz	230V AC 50Hz
	Output voltage	DC 12V 500mA	DC 12V 500mA
Adapter	Adapter plug	A 💷	F •••
	Certificate	(& e	
01	Model No.	5PT-	1080-CH
Charger	Voltage	DC 12V 500mA	DC 12V 500mA
	Model No.	5PT-1080-	P1(13 pcs/set)
Standard Accessories	Bits set	6 pcs Drills: Ø 1.5/2.5/3/4/5/6mm 6 pcs 25mm Driver bits: ⊕ 5.0, 6.0 ⊕ #1, #2 ⊕ PZ#1,#2 1pc Magnetic insert bits holder	
	Others	Adapter and Charg	jer / Blow-molded case
Individual pack	ing	Color sleeve shrink	

Cordless Pocket Screwdriver 7.2V ► PT-0721A / PT-0721F





















Battery power indication

15+1 adjustable torque settings

- Two gear speed: 0-200rpm/0-400rpm
 1300mAh Li-ion battery. Long life battery pack, anti-pollution
- 15+1 Adjustable torque settings.
- Maximum output torque up to 5nm
- · Quick release chuck
- Switch for forward or reverse rotation.
- Battery power indication
- · LED light provides convenient work in dark
- · Handy and easy to carry in a tool belt
- · Over charging and discharging protection

Model No.		PT-0721A	PT-0721F
Torque setting		15+1 Position	
	Rated no load speed	two gear speed:0	0-200rpm/0-400rpm
Main	Output torque	5Nm (51 kgf-cm / 44.26 lbf-in)	
body	Drive (collet)	1/4 qucik realess chuck	
Dody	Special function Switch for forw		reverse rotation, quick it, battery power indicator
	Overall length: angled	160mm x 180mm	
	Battery type	Li-ion	
	Battery voltage	7.2V	
Battery	Battery capacity	1300mAh	
	Charging time	3-5 hours	
	Free running time	>70) min
	Model No.	5PT-0721-ADA	5PT-0721-ADF
	Input voltage	120V AC 60Hz	230V AC 50Hz
	Output voltage	DC 9V 300 mA	DC 9V 300 mA
Adapter	Adaptor plug	A []	F •••
Certificate		(& e	
0	Model No.	5PT-1	361-P1
Standard accessorie	Bits set	4pcs 50mm Driver Bits:	5.0, 6.0 +1, #2
accessorie	Other	Adapter	
Individal packing		Double blister card	



PT-1362U **USB Li-ion Cordless Screwdriver 3.6V**











- · Powerful motor comes with 350RPM/3 Nm, provides plenty of power for a variety of applications.
- The durable metal gear features small volume, high torsion and not easy to wear.
- Equipped with SANYO power cell series li-ion batter, offer high performance and long service life.
- · Compact design for easy access to narrow space.
- · LED light increased visibility in dark areas.
- · Charging protective circuit design for quickly charging and over current protection.



Accessories

Model No.	PT-1362U
Rated no load speed	350 rpm
Output torque	3 Nm (31 kgf-cm/26.9 lbf-in)
Special function	LED charging indicator
Overall length: angled	140(L)x110(H) mm
Battery	Li-ion 3.6V 1100 mAh
Charging time	1.5~2 hours (5V/2A)
Free running time	30 min
Accessories	5pcs 50mm driver bits: ⊖ 6.0 ⊕ #1, #2 ● 3.0, 4.0 Micro USB charging cord
Individal packing	Double blister











Full metal gearbox

Japan SANYO Li-ion battery

USB charging

Li-ion Cordless Screwdriver 3.6V PT-1361A / PT-1361F















- Battery power indication
 LED light provides convenient work in dark

- 1300mAh Li-ion Battery. Long life battery pack, anti-pollution.
 Dual angle adjustment allows straight and angle use
 6+1 Adjustable torque settings, maximum output torque up to 3 Nm
- Quick release chuck, switch for forward or reverse rotation.

Model No.		PT-1361A	PT-1361F
	Torque setting	6+1 positions	
	Rated no load speed	200	rpm
	Output torque	3 Nm (30.6 kgf-	cm/26.55 lbf-in)
	Drive (Collet)	Hex 1/4 (6.3mm) quick release chuck	
Main body	Special function	Switch for forward or reverse rotation, 2 different angle settings Includes LED Light.	
		LED Battery Power	er Status Indicator
	Overall length: straight	235m	nm (L)
	Overall length: angled	170(L)x145(H)mm	
	Battery type	Li-ion	
	Battery voltage	3.6V	
Battery	Battery capacity	1300mAh	
	Charging time	3-5 h	nours
	Free running time	60	min
	Model No.	5PT-1361-ADA	5PT-1361-ADF
	Input voltage	120V AC 60Hz	230V AC 50Hz
	Output voltage	DC 6V	300mA
Adapter	Adapter plug	A []	F •••
	Certificate		
Standard	Model No.	5PT-1361-P	1 (4 pcs/set)
Accessories	Bits set	4pcs 50mm driver bits:	⊕ 5.0, 6.0 ⊕ #1, #2,
Individual pac	king	Double blister	



4pcs 50mm Driver Bits



LED light provides convenient work in dark



Battery power indication



Dual Angle

▶ PT-1136A / PT-1136F Cordless Lighted Screwdriver 3.6V













- High quality motor. Speed gear (operating ratio 1:80). 200rpm. Smooth and quiet operation
- Equipped with 3.6V, 1000mAh, rechargeable NI-MH anti-pollution battery. Charging time: 5~7 hrs.
- Maximum output torque up to 25kgf.cm. Ideal for computer, electronic
- · Adjustable 3 different angle to meet different application's demand.
- Switch for forward or reverse rotation. Easy to screw / unscrew.
- · Ergonomic design. Soft grip is easy to handle.
- · LED light provides convenient work in the dark area.

Model No.		PT-1136A	PT-1136F
	Torque setting	No	one
	Rated no load speed	200	rpm
	Output torque	2.5 Nm(25.5 kgf	-cm/ 22.13 lbf-in)
Marine In a short	Drive (collet)	6.35mm (1/4") Hex Bit Shank	
Main body	Special function	Switch forward or reverse rotation, LED light Handle can be used in 3 different position	
	Overall length: straight	270mm (10-13/16")
	Overall length: angled	210×140mi	m (7-23/32")
	Battery type	NI-	МН
	Battery voltage	3.6V	
Battery	Battery capacity	1000mAh	
	Charging time	5-7 hours	
	Free running time	30-35 min. (unload speed)	
	Input voltage	120V AC 60Hz	230V AC 50Hz
	Output voltage	DC 6V 300mA	DC 6V 300mA
Adapter	Adaptor plug	A III	F •••
	Certificate		
Standard accessories		2 pcs magnetic insert b 11 pcs 25mm driver bit: ⊕ #1, #2, #3 ● T10, T15	s: 😑 3.0, 4.0, 5.0, 6.0, 7.0
Individal pa	acking	Double blister card	

Mini Grinder Set 7.2V PT-5721A / PT-5721F













Drilling











On/Off speed

- 1000mAh Li-ion Battery, long life battery pack, anti-pollution.
 Low vibration, high torque and lightweight ergonomically designed
 Adjustable speed settings, Quick Release Chuck
 Battery Power Indication, LED light provides convenient work in dark
- Ideal for lightweight grinding, drilling, cutting, polishing, sanding, milling, sharpening, engraving and many other uses



Standard accessories: 9PT-5721-P2 (16pcs/set)

Model No.		PT-5721A	PT-5721F
Max. diameter		Ø	3.2
Main body	Rated no load speed	5000rpm-	-18000rpm
	Battery Type	Li-ion	
	Battery voltage	7.	2V
Battery	Battery capacity	1000)mAh
	Charging Time	3-5 h	nours
	Free running time	60	min
	Model No.	5PT-5721-ADA	5PT-5721-ADF
	Input voltage	120V AC 60Hz	230V AC 50Hz
Adapter	Output voltage	DC 9V 300mA	DC 9V 300mA
and charger	Adaptor plug	Α□	F⊡
charger	Certificate	(& er	
	Model No.	9PT-5721-P2	! (16pcs / set)
Standard accessories	Bits set	2pcs brass collet (Ø2.4x1, Ø3.2x1) 3pcs high speed frills (3/32" Ø2.4x 2, 1/8" Ø3.2 x1) 2pcs Engraving bits (Ø2.4x 2) 2pcs diamond bits (Ø3.2 x 2) 2pcs nylon brush (Ø2.4, Ø3.2) 4pcs grinding stones (Ø2.4x 2, Ø3.2 x2) 1pc sanding band (Ø2.4 x1)	
	Other	Adapter and charger	
Individual packing		Double b	lister card

PT-5501A / PT-5501I

Variable Speed Rotary Tool Kit









Powerful variable speed and 40-piece accessories to meet most applications.

- Powerful variable speed from 10,000 to 32,000RPM
- Flexible shaft and cable attachment allows precision work
- · 40-piece multipurpose accessories and carrying case included
- · Outer carbon brush for replacement convenience
- · Cutting, sanding, polishing, drilling, burr removal.





Comes with flexible shaft

Polishing

Model No.	PT-5501A	PT-5501I
Maximum Output	135 W	
No Load Speed	10,000-32,000 rpm	
Collet Chuck Capacity	3.2mm and 2.5mm	
Available Voltages	120V, 60Hz	230V, 50Hz
Plug	A	ı ∰
Carrying Case Size	285x235x80(mm)	
Individual packing	Color sleeve shrink	



PT-5202A / PT-5202F Mini Grinder Set



- Build-in LED light provides illumination during use.
- Includes 19 accessories and 2 stencils for most tasks.
- · Durable plastic storage case for easy organized.







Storage case

Engraving

Drilling

Model No	0.	PT-5202A	PT-5202F
	Collet size	Max. Ø	3.2mm
	No-load speed	15,00	0 rpm
Main	Working voltage	18V DC	
body	Acoustic pressure	< 70	0dB
	Overall length	Ø43×127 mm 123 g	
	Weight		
	Input voltage	100~240VAC 50	/60Hz 0.5A Max.
	output voltage	18V DC	400mA
Switch	Adaptor plug	ΑШ	F☉
adapter	Certificate	c (UL) us	
Accessories		19 accessories and 2 stencils	
Carrying Case		142x137x57mm (5.6"x5.4"x2.3")	



PT-5201A / PT-5201B **Mini Grinder**



- · Naturally and comfortable operation body shape.
- The quick-change chuck is ideal for drilling, polishing, engraving, routing, shaping, sanding and milling.
- Low vibration, high torque & lightweight ergonocally
- design.

Model No.	PT-5201A	PT-5201B
Max. diameter	ø 3.2mm	
No load speed	8000~18000 r	om adjustable
Adaptor Voltage	Output: DC 18V 400mA Input: AC 120V 60Hz	Output: DC 18V 400mA Input: AC 230V 50Hz
Adaptor plug	A III	F •••
Adaptor certificate	(E emc	CUL US
Replacement accessories	9PT-5201-P2	! (10 pcs/set)
Replacement adaptor	9PT-5201A-P	9PT-5201B-P
Individual packing	Double b	ister card





- Contents (10 pcs/set):
 2 pcs diamond bits
- 2 pcs grinding stones
- 2 pcs sanding bands1 pc collet (Ø 2.4/ Ø 3.2 mm)
- 1 pc nylon brush
- 1 pc engraving bit1 pc connective post for sanding band

► PT-5203A / PT-5203I **Electric Engraver**











9 position stroke setting Speed 7100 spm **LED light**





- 9 position stroke setting regulates engraving depth from fine lines to deep grooves.
- Soft TPR handle provides extra comfort and control.
- · Comes with LED light allows operating even in dark area.
- Replaceable solid carbide point gives you the power to engrave on different surfaces.
- · Light and compact design provides comfortable use for precision engraving performance.
- · Ideal for engraving or decorating metal, glass, stone and more.



Model No.

Standard plug

Individal packing

Accessories:

2 solid carbide tips Φ3.0×20 mm and 1 hex wrench included

PT-5203I

AC 220V~240V 50Hz

I ∰

A round needle tip for deep or thread engraving.
 A flat tip for general and large area engraving.

PT-5203A









Super Drill Set



- Features in performance include low vibration, high torque and lightweight ergonomically designed.
- The quick-change chuck is ideal for drilling, polishing, engraving, routing, shaping, sending and milling.
- · A super mill electric drill with an efficient, high speed motor and encassed in a rugged high impact polystyrene body.

1PK-500-1





Double blister card



Contents:

- 5 pcs high speed steel drills (Ø0.5, 1.0, 1.5, 2.5, 3.0mm)
- 5 pcs brass collets (Ø0.5, 1.0, 1.5, 2.5, 3.0mm)
- Adaptor output: DC 12V/0.8A ⊕ ⊕ D/J Ø 5.5 / Ø2.1



Contents:

- + 5 pcs high speed steel drills (Ø 0.5, 1.0, 1.5, 2.5, 3.0mm)
- 5 pcs brass collets (Ø 0.5, 1.0, 1.5, 2.5, 3.0mm)
- · 4 pcs grindstones with arbour
- 1 pc super thin grinding wheel
 Adaptor output: DC 12V/0.8A ⊕ ⊕ D/J Ø 5.5 / Ø2.1







Model No.	Chuck	Taraua	No-load	Adapter					Case(mm)	Individual packing
wodel No.	Chuck	Torque	speed	Model No.	Input Voltage	Output Voltage	Plug	Certificate	Case(mm)	individual packing
1PK-500-1				-	-	-	-		165x120x45	
1PK-500A-2	Ø0.5-Ø3.0mm	530 gf-cm	9000~11000 rpm	9500-012A	120V AC 60HZ	DC 12V 800mA	A []	€(ÚL)		Color label shrink
1PK-500B-2				9500-013B	100~240V AC 50/60HZ	DC 13V 800mA	F \cdots	CE	215x150x70	
1PK-500C-2				9500-012C	230V AC 50HZ	DC 12V 800mA	c 🖸			

1H055-T **Accessories**



High speed steel drill bits designed for precision drilling applications in wood, non-ferrous metals and plastics. Available in pack, each containing 5 different drill sizes.



Model No.	Size (mm)	Individual packing		
	Ø 0.5			
	Ø 1.0			
1H055-T (5pcs/set)	Ø 1.5	Blister card		
	Ø 2.5			
	Ø 3.0			