

Cordless Pistol Drill

Product Instructions

Model

XPB-1000

XPB-3000

XPB-6000

XPB-1000-C6.5

XPB-3000-C6.5

XPB-6000-C6.5

Part number

6151762130

6151762150

6151762170

6151762530

6151762540

6151762550



Download the latest version of this document at
http://www.desouttertools.com/info/6159929520_EN

| ⚠ WARNING | |
|---|---|
|  | <p>Read all safety warnings and instructions</p> <p>Failure to follow the safety warnings and instructions may result in electric shock, fire and/or serious injury.</p> <p>Save all warnings and instructions for future reference</p> |

Table of Contents

| | |
|---|-----------|
| Product Information | 3 |
| General Information..... | 3 |
| Warranty..... | 3 |
| Website | 3 |
| Information about spare parts | 3 |
| Dimensions | 4 |
| CAD files | 4 |
| Overview | 4 |
| General overview | 4 |
| Product description | 5 |
| Technical data..... | 5 |
| Accessories..... | 6 |
| Installation | 7 |
| Installation Instructions..... | 7 |
| Inserting the battery pack..... | 7 |
| How to connect the tool to XPB Config..... | 7 |
| Operation | 8 |
| Configuration Instructions..... | 8 |
| How to get information about the tool | 8 |
| How to configure the tool | 8 |
| How to set up speeds..... | 9 |
| Operating Instructions | 10 |
| How to use the tool | 10 |
| How to wake up the tool..... | 10 |
| What if LEDs are flashing..... | 10 |
| Service | 11 |
| Maintenance Instructions | 11 |
| Read before maintenance..... | 11 |
| Preventive Maintenance..... | 11 |
| Upgrading tool firmware | 11 |
| Troubleshooting | 12 |
| What if the tool is locked | 12 |
| Red LED behaviour | 12 |

Product Information

General Information

WARNING Risk of Property Damage or Severe Injury

Ensure that you read, understand and follow all instructions before operating the tool. Failure to follow all the instructions may result in electric shock, fire, property damage and/or severe bodily injury.

- ▶ Read all Safety Information delivered together with the different parts of the system.
- ▶ Read all Product Instructions for installation, operation and maintenance of the different parts of the system.
- ▶ Read all locally legislated safety regulations regarding the system and parts thereof.
- ▶ Save all Safety Information and instructions for future reference.

Warranty

- Product warranty will expire 12 months after the product is first taken into use, but will in any case expire at the latest 13 months after delivery.
- Normal wear and tear on parts is not included within the warranty.
 - Normal wear and tear is that which requires a part change or other adjustment/overhaul during standard tools maintenance typical for that period (expressed in time, operation hours or otherwise).
- The product warranty relies on the correct use, maintenance, and repair of the tool and its component parts.
- Damage to parts that occurs as a result of inadequate maintenance or performed by parties other than Desoutter or their Certified Service Partners during the warranty period is not covered by the warranty.
- To avoid damage or destruction of tool parts, service the tool according to the recommended maintenance schedules and follow the correct instructions.
- Warranty repairs are only performed in Desoutter workshops or by Certified Service Partners.

Desoutter offers extended warranty and state of the art preventive maintenance through its Tool Care contracts. For further information contact your local Service representative.

For electrical motors:

- Warranty will only apply when the electric motor has not been opened.

Website

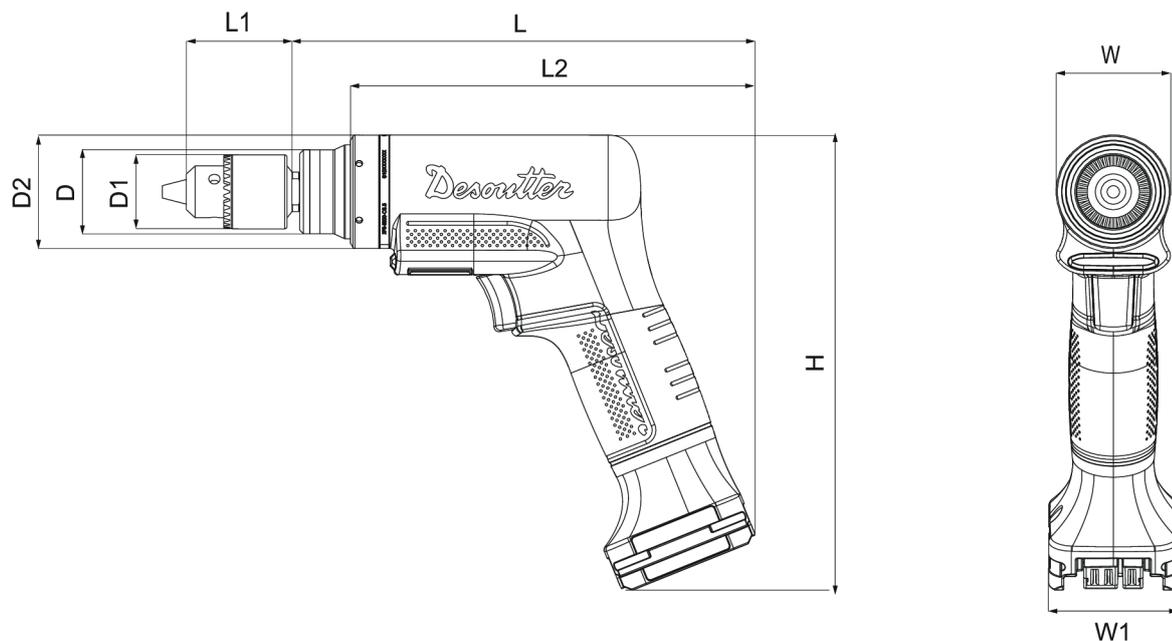
Information concerning our Products, Accessories, Spare Parts and Published Matters can be found on the Desoutter website.

Please visit: www.desouttertools.com.

Information about spare parts

Exploded views and spare parts lists are available in Service Link at www.desouttertools.com.

Dimensions



mm

| Model | L | L1 | L2 | W | W1 |
|-------|-----|------|-----|----|----|
| -1000 | 195 | 44.5 | 161 | 46 | 52 |
| -3000 | 184 | 44.5 | 161 | 46 | 52 |
| -6000 | 184 | 44.5 | 161 | 46 | 52 |

| Model | D | D1 | D2 | H |
|-------|----|----|----|-----|
| -1000 | 38 | 32 | 46 | 184 |
| -3000 | 38 | 32 | 46 | 184 |
| -6000 | 38 | 32 | 46 | 184 |

in.

| Model | L | L1 | L2 | W | W1 |
|-------|------|------|------|------|------|
| -1000 | 7.68 | 1.75 | 6.34 | 1.81 | 2.05 |
| -3000 | 7.24 | 1.75 | 6.34 | 1.81 | 2.05 |
| -6000 | 7.24 | 1.75 | 6.34 | 1.81 | 2.05 |

| Model | D | D1 | D2 | H |
|-------|------|------|------|------|
| -1000 | 1.50 | 1.26 | 1.81 | 7.24 |
| -3000 | 1.50 | 1.26 | 1.81 | 7.24 |
| -6000 | 1.50 | 1.26 | 1.81 | 7.24 |

CAD files

For information about the dimensions of a product, see the Dimensional drawings archive:

<https://www.desouttertools.com/resource-centre>

Overview

General overview

XPB tools are cordless pistol drills.

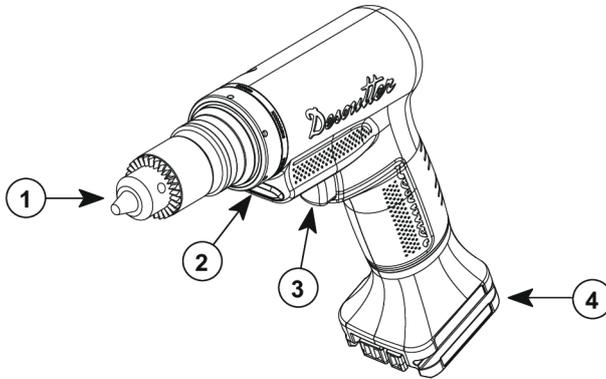
They are hand-held by the operator and powered by a Desoutter battery pack.

Tools are equipped with a double-step trigger which allows to adjust the drilling speed to the material.

Tool settings are done with XPB Config.

At the end of the drilling cycle, the *Pulse mode* feature (enabled by default) allows to free the cutting tool from chips stuck in the drilling hole.

Product description



| | |
|---|-------------------|
| 1 | Output shaft |
| 2 | Light indicators |
| 3 | Trigger |
| 4 | Battery footprint |

Technical data

Voltage (V)

18 V  or 36 V 

Power consumption

18 V: 310 W

36 V: 420 W

Output drive

| | |
|---------------|-----------------------|
| XPB-xxxx | 3/8''-24 UNF |
| XPB-xxxx-C6.5 | Chuck capacity: Ø 6.5 |

Speed range (rpm)

| Model | Min. (1) | Max. (2) |
|-------|----------|----------|
| -1000 | 110 | 1000 |
| -3000 | 300 | 2790 |
| -6000 | 630 | 6000 |

(1) default minimum speed for first-step trigger (Speed 1)

(2) default maximum speed for second-step trigger (Speed 2)

Weight

| Model | (kg) | (lb) |
|----------|------|------|
| XPB-1000 | 0.82 | 1.81 |
| XPB-3000 | 0.77 | 1.70 |
| XPB-6000 | 0.78 | 1.72 |

| Model | (kg) | (lb) |
|---------------|------|------|
| XPB-1000-C6.5 | 0.96 | 2.12 |
| XPB-3000-C6.5 | 0.89 | 1.96 |
| XPB-6000-C6.5 | 0.90 | 1.98 |

i The weight is given without the battery pack.

Storage and use conditions

| | |
|--|------------------------------|
| Storage temperature | -20 to +70 °C (-4 to +158 F) |
| Operating temperature | 0 to 45 °C (32 to 113 F) |
| Storage humidity | 0-95 % RH (non-condensing) |
| Operating humidity | 0-90 % RH (non-condensing) |
| Altitude up to | 2000 m (6562 feet) |
| Usable in Pollution degree 2 environment | |
| Indoor use only | |

Accessories

Required accessories

| | |
|--------------------------|------------|
| Battery pack 18 V 2.5 Ah | 6158132660 |
| Battery pack 36 V 2.5 Ah | 6158132670 |
| Battery pack charger | 6158132700 |
| eDOCK | 6158119760 |

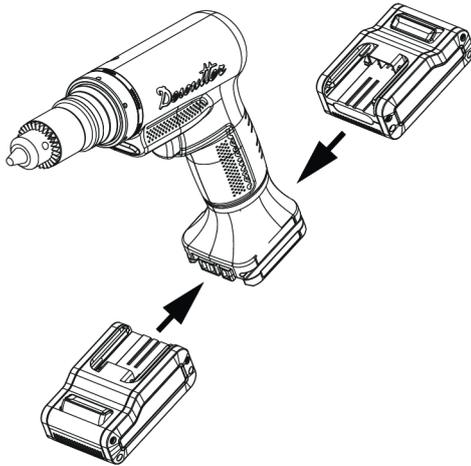
Optional accessories

| | |
|-------------------------|------------|
| Chuck - capacity 6.5 mm | 2050552723 |
| Chuck - capacity 8 mm | 2050530133 |
| Chuck - capacity 10 mm | 2050529543 |
| Chuck guard | 2050492753 |
| Side handle | 6153992650 |

Installation

Installation Instructions

Inserting the battery pack

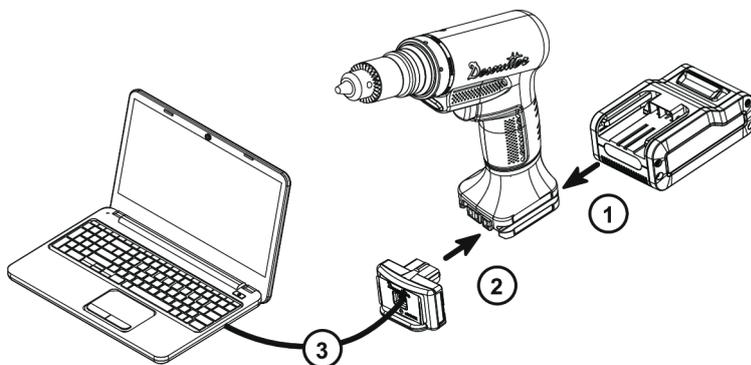


Insert the battery pack in front or behind the tool until a locking sound can be clearly heard.
 There is no ON/OFF switch: the tool is ready to operate as soon as a battery pack is mounted.
 When the tool is powered on, tool LEDs are blinking.
NOTICE Usage recommendations for battery packs
 Ensure a longer service life of the battery pack.

- ▶ Unplug the battery pack when the tool is not used.

Do not leave the battery pack on the charger when the charger power supply is off.

How to connect the tool to XPB Config



Plug a battery pack to the tool.
 Connect eDOCK to the tool and to the USB port of the computer.

- i** Respect the connection order.

Launch XPB Config from the computer desktop.



Click this box to display the communication ports available.
 Or click the drop list to select one port.

Click *Connect* to communicate with the tool.
 When the communication is successful, a green tick is displayed.



Click this button to read the tool.

Operation

Configuration Instructions

How to get information about the tool

Connect the tool to XPB Config.

Go to the tab *Tool configuration*.

The following information is displayed.

- Desoutter serial number
- Tool firmware version
- Battery level
- Number of drilling cycles executed (*Counter*) since the manufacturing date.

Customize the following information:

| | |
|------------------------|---------------------|
| Customer serial number | Up to 16 characters |
| Tool description | Up to 32 characters |



Click this button to update the tool.
Unplug and plug the battery pack to validate new settings in the tool.

How to configure the tool

How to manage the white LED intensity

Connect the tool to XPB Config.

Go to the tab *Tool configuration*.

Go to the box *White LED level*.

Select the intensity of the white LED in percentage.



Click this button to update the tool.
Unplug and plug the battery pack to validate new settings in the tool.

How to prevent the tool to start when battery pack level too low

Connect the tool to XPB Config.

Go to the tab *Tool configuration*.

Go to the box *Maintenance*.

Select the minimum load level (0% by default) at which the tool will not start.



Click this button to update the tool.
Unplug and plug the battery pack to validate new settings in the tool.

How to lock the tool when counter is reached

Connect the tool to XPB Config.

Go to the tab *Tool configuration*.

Go to the box *Maintenance*.

In the box *Counter limit*, enter the number of drilling cycles to reach (from 0 to 1,000,000).

Tick *Lock tool*.



Click this button to update the tool.
Unplug and plug the battery pack to validate new settings in the tool.

How to manage the counter of the cutting tool

Connect the tool to XPB Config.

Go to the tab *Head and Psets configuration*.

The counter of the number of drillings done with the current cutting tool is displayed.
You can reset this counter by clicking *Reset counter*.

In the box *Cycle counter limit*, enter the number of drilling cycles (from 0 to 1,000,000) at which the tool will be stopped.

Tick *Lock tool*.



Click this button to update the tool.

How to set up speeds

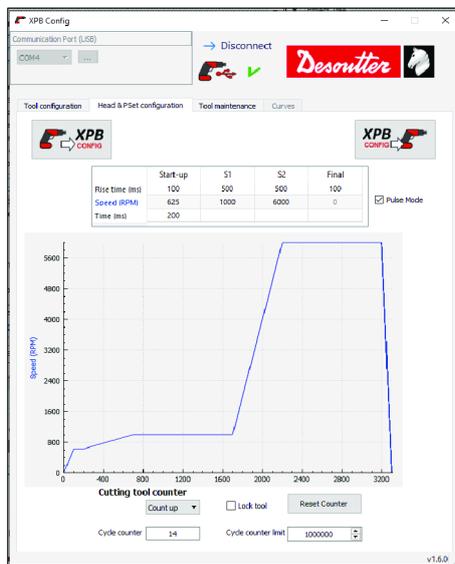
i Tools are equipped with a double-step trigger which allows to adjust the drilling speed to the material.

Connect the tool to XPB Config.



Click this button to read the tool.

Go to the tab *Head and Psets configuration*.



There are 4 steps in a drilling cycle.

i Speeds by default are given in chapter *Technical data [Page 5]*.

Start-up

This step is at the start of the drilling cycle whatever the trigger position.

Enter the rise time (min. 100 ms / max. 5000 ms / 200 ms by default).

Enter the tool speed.

Enter the step duration (0 ms by default, 5000 ms max.).

S1

S1 stands for Speed 1.

This step gives the acceleration time and the speed when the trigger is pressed halfway.

Enter the rise time (min. 100 ms / max. 5000 ms / 200 ms by default).

Enter the tool speed.

S2

S2 stands for Speed 2.

This step gives the acceleration time and the speed when the trigger is fully pressed.

Enter the rise time (min. 100 ms / max. 5000 ms / 200 ms by default).

Enter the tool speed.

Final

This step controls the speed decreasing at the end of the drilling cycle, when the trigger is released.

Enter the rise time (min. 100 ms / max. 300 ms / 100 ms by default)

Pulse mode is enabled by default.

At the end of the drilling cycle, this feature allows to free the cutting tool from chips stuck in the drilling hole.



Click this button to update the tool.

Operating Instructions

How to use the tool

⚠ WARNING Do not start the tool before assuring that the drill head is correctly assembled to the drive unit. An incorrectly assembled drill head may come loose with high speed and cause bodily injury and/or property damage.

Fit the tool with a suitable chuck.

Insert the cutting tool into the chuck.

Use the chuck key to tighten the cutting tool on the chuck.

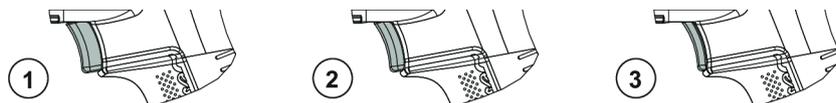
Repeat this operation three times (each 120°).

Hold the tool steady by means of the handle and apply to the part to be cut.

The white front light illuminates the working area.

i Tools are equipped with a double-step trigger which allows to adjust the drilling speed to the material.

Press the trigger halfway (first-step trigger) to drill at *Speed 1* and press it fully (second-step trigger) to drill at *Speed 2*.



| | |
|---|---------------------|
| 1 | Trigger OFF |
| 2 | First-step trigger |
| 3 | Second-step trigger |

At the end of the drilling cycle, the tool may generate some impacts to free the cutting tool from chips stuck in the drilling hole.

i If the cutting tool is blocked during the cycle, the tool starts automatically a disengagement cycle to free the cutting tool.

How to wake up the tool

The tool switches to *Standby* mode automatically after 30 minutes of inactivity.

Press the trigger.

Tool goes to *Deep sleep* mode after 1 hour of inactivity when battery pack is under low level.

Press the trigger.

Unplug the battery pack, wait for a few seconds, plug the battery pack.

What if LEDs are flashing

Red and green LEDs are flashing when the load level of the battery pack is low.

Change the battery pack and plug the discharged one to charger.

Blue LED is flashing 4 times when the cutting tool counter is at warning level.

Blue LED is flashing once when the cutting tool counter is reached.

Service

Maintenance Instructions

Read before maintenance

WARNING Connection Hazard

The tool can start unexpectedly and cause severe bodily injury.

- Prior to any maintenance task, disconnect the tool.

Maintenance should be performed by **qualified personnel only**.

Follow standard engineering practices and refer to exploded views for disassembling and reassembling the different parts of the system.

Take into account the following instructions given in the exploded views.

Be cautious: when reassembling, tighten the right direction.



Left hand thread



Right hand thread

When reassembling:



Apply the recommended glue.



Tighten to the required torque.



Lubricate with the required grease or oil. Do not apply too much grease on gears or bearings; a thin coat shall be sufficient.

Preventive Maintenance

Heavy duty

Heavy duty use can require more frequent overhaul and Preventive Maintenance intervals. Please contact your local Desoutter Service team to get a customized maintenance plan.

Recommendations

Overhaul and preventive maintenance is recommended at regular intervals once per year or after a maximum number of drilling cycles (refer to the table below) depending on which occurs sooner.

Maintenance frequency

500,000 drilling cycles

Upgrading tool firmware

-  Contact your Desoutter representative to get the last version of firmware (.zip file).

The firmware version of the tool is displayed in the screen *Tool configuration*.

Copy/paste the .zip file at *C:\Program Files (x86)\Desoutter\XPB Config* (directory by default) .

Go to the tab *Tool maintenance*.

Click *Select zip file*.

Select the file and click *Open*.

Click *Update*.

Green, blue and red light indicators are blinking. When the blue LED switches off, the upgrade is done.

-  Do not remove the battery pack while upgrading.

Troubleshooting

What if the tool is locked

| Description | Solution |
|---|---|
| The tool is in <i>Standby mode</i> . | Press the trigger to wake up the tool. |
| The tool is in <i>Deep sleep mode</i> . | Unplug and plug the battery pack. |
| The battery pack is discharged. | Change the battery pack. |
| The battery pack is too low. | Check the battery pack level with <i>XPB Config</i> . Refer to <i>How to prevent the tool to start when battery pack level too low [Page 8]</i> . |
| The tool counter is reached. | Refer to <i>How to lock the tool when counter is reached [Page 8]</i> . |
| The cutting tool counter is reached. | Refer to <i>How to manage the counter of the cutting tool [Page 8]</i> . |

Red LED behaviour

| | Cause | Solution |
|---------------------------------------|---|--|
| 2 red flashing lights | Overcurrent | The LED switches off when overcurrent is not detected anymore. |
| 3 red flashing lights | Motor stall | The tool has been blocked during the drilling cycle. The drilling cycle has been aborted. Remove the tool and start another drilling cycle. |
| 4 red flashing lights | Temperature | Let the tool cool down. |
| 4 red flashing lights and blue LED on | Maintenance - Tool counter reached | Send the tool to plant maintenance. |
| 5 red flashing lights | Battery pack | Change the battery pack. |
| Lights flashing indefinitely | Configuration error or hardware failure | Contact your Desoutter representative. |

Original instructions

Founded in 1914 and headquartered in France, Desoutter Industrial Tools is a global leader in electric and pneumatic assembly tools serving a wide range of assembly and manufacturing operations, including Aerospace, Automotive, Light and Heavy Vehicles, Off-Road, General Industry.

Desoutter offers a comprehensive range of Solutions -tools, service and projects- to meet the specific demands of local and global customers in over 170 countries.

The company designs, develops and delivers innovative quality industrial tool solutions, including Air and Electric Screwdrivers, Advanced Assembly Tools, Advanced Drilling Units, Air Motors and Torque Measurement Systems.

Find more on www.desouttertools.com



More Than Productivity