Printed Matter No. 6159929520_EN
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Cordless Pistol Drill

Product Instructions

Model	Part number
XPB-1000	6151762130
XPB-3000	6151762150
XPB-6000	6151762170
XPB-1000-C6.5	6151762530
XPB-3000-C6.5	6151762540
XPB-6000-C6.5	6151762550
XPB-1000-K8	6151762560
XPB-3000-K8	6151762570
XPB-6000-K8	6151762580
XPB-1000-QR	6151762890
XPB-3000-QR	6151762900
XPB-6000-QR	6151762910
XPB-1000-P	6151763180
XPB-1000-C6.5-P	6151763190
XPB-1000-K8-P	6151763220
XPB-1000-QR-P	6151763230
XPB-3000-P	6151763290
XPB-3000-C6.5-P	6151763300
XPB-3000-K8-P	6151763320
XPB-3000-QR-P	6151763330
XPB-6000-P	6151763390
XPB-6000-C6.5-P	6151763400
XPB-6000-K8-P	6151763420
XPB-6000-QR-P	6151763430

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

⚠ WARNING

Read all safety warnings and instructions

Failure to follow the safety warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference

Table of Contents

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

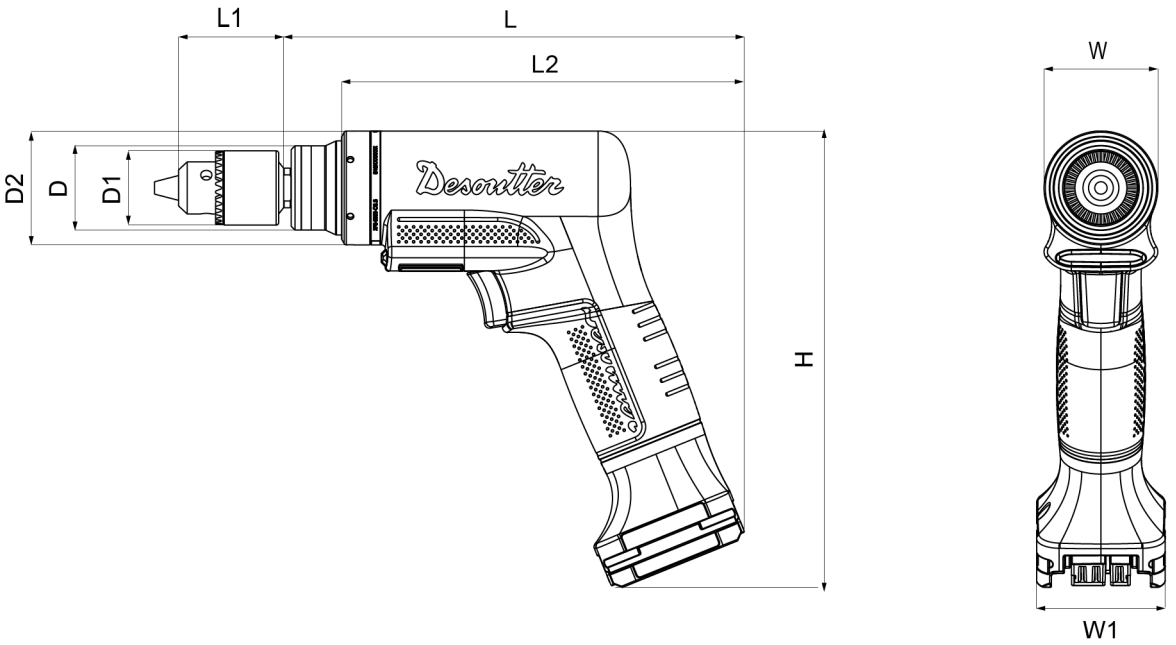


Illustration 1: XPB Drill

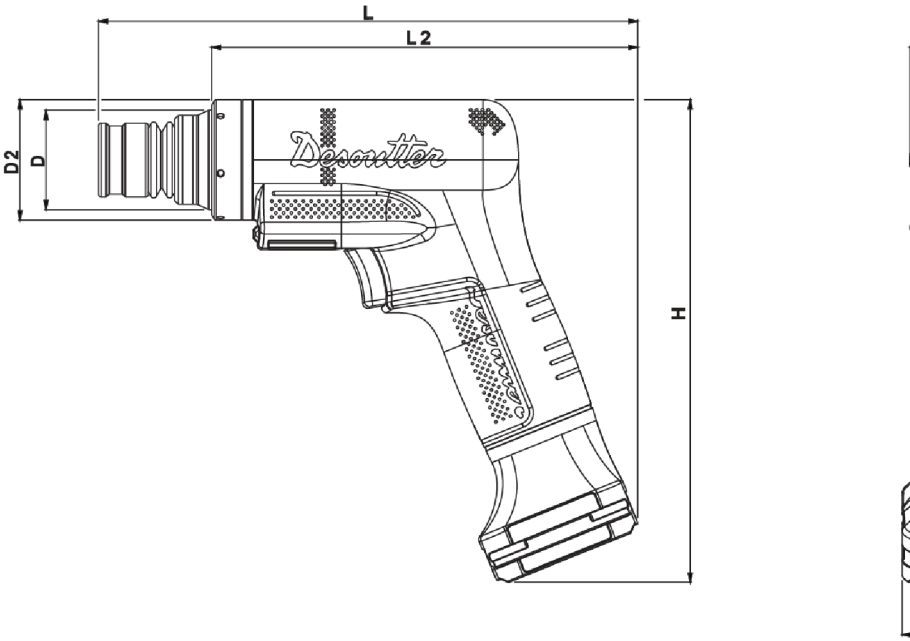


Illustration 2: XPB Drill with QR head

In mm

Model	L	L2	W	W1
-1000	197	161	46	52
-1000 QR	217	161	46	52
-2000	197	161	46	52
-2000 QR	217	161	46	52
-3000	186	161	46	52
-3000 QR	206	161	46	52
-4500	186	161	46	52
-4500 QR	206	161	46	52
-6000	186	161	46	52
-6000 QR	206	161	46	52

Model	D	D2	H
-1000	38	46	184
-1000 QR	38	46	184
-2000	38	46	184
-2000 QR	38	46	184
-3000	38	46	184
-3000 QR	38	46	184
-4500	38	46	184
-4500 QR	38	46	184
-6000	38	46	184
-6000 QR	38	46	184

Model	L1	D1
-C6.5	44.5	32
-C10	49.5	37
-K8	61.5	32

In inches

Model	L	L2	W	W1
-1000	7.76	6.34	1.81	2.05
-1000 QR	8.54	6.34	1.81	2.05
-2000	7.76	6.34	1.81	2.05
-2000 QR	8.54	6.34	1.81	2.05
-3000	7.32	6.34	1.81	2.05
-3000 QR	8.11	6.34	1.81	2.05
-4500	7.32	6.34	1.81	2.05
-4500 QR	8.11	6.34	1.81	2.05
-6000	7.32	6.34	1.81	2.05
-6000 QR	8.11	6.34	1.81	2.05

Model	D	D2	H
-1000	1.5	1.8	7.2
-1000 QR	1.5	1.8	7.2
-2000	1.5	1.8	7.2
-2000 QR	1.5	1.8	7.2
-3000	1.5	1.8	7.2
-3000 QR	1.5	1.8	7.2
-4500	1.5	1.8	7.2
-4500 QR	1.5	1.8	7.2
-6000	1.5	1.8	7.2
-6000 QR	1.5	1.8	7.2

Model	L1	D1
-C6.5	1.75	1.26
-C10	1.95	1.46
-K8	2.42	1.26

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.

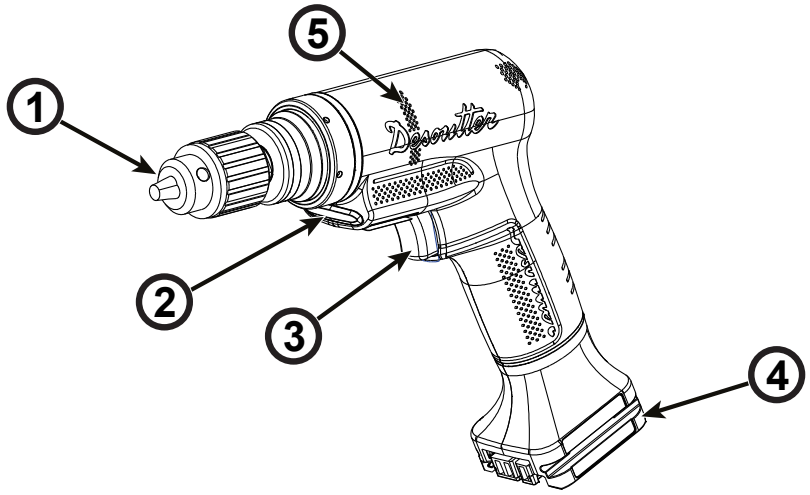
They are hand-held by the operator and powered by a Desoutter battery pack.

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

Tool settings are done with XPB Config.

At the end of the drilling cycle, the *Pulse mode* feature (enabled by default) helps 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
5	Cooling holes

ⓘ Cooling Holes (do not cover / keep free from dust).

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
XPB-1000-C6.5	0.96	2.12
XPB-3000-C6.5	0.89	1.96
XPB-6000-C6.5	0.90	1.98

ⓘ 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
Pin wrench	2050533723

Optional accessories

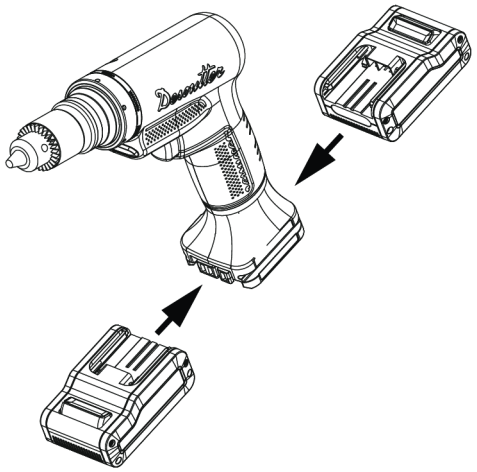
Chuck - capacity 6.5 mm	2050552723
Chuck - capacity 8 mm	2050530133
Chuck - capacity 10 mm	2050529543

Chuck guard	2050492753
Side handle	6153992650
Keyless chuck capacity 8 mm	473433
Keyless chuck capacity 10 mm	473423
Keyless chuck capacity 13 mm	2050478193

Installation

Installation Instructions

Inserting the battery pack



Insert the battery pack (1) in front of or behind the tool (2) until a locking sound can be clearly heard.

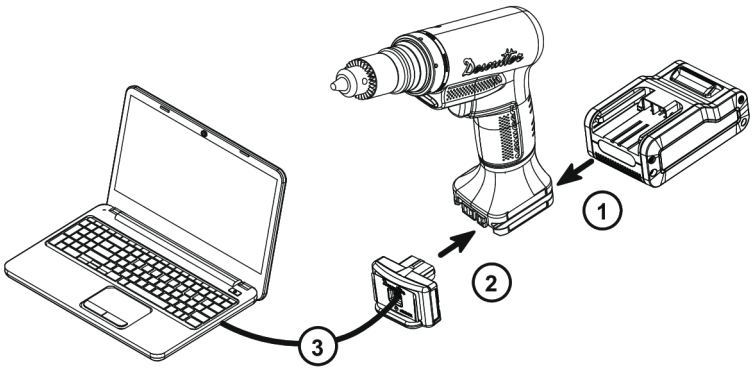
There is no ON/OFF switch: the tool is ready to operate as soon as a battery pack is installed.

When powered on, the tool's LEDs will blink.

NOTICE Usage recommendations for battery packs
To ensure a longer service life of the battery pack:

- ► Remove battery pack when the tool is not used.
- ► Do not leave the battery pack on the charger when the charger's 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.

ⓘ Follow 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 from starting when battery pack level is 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*.

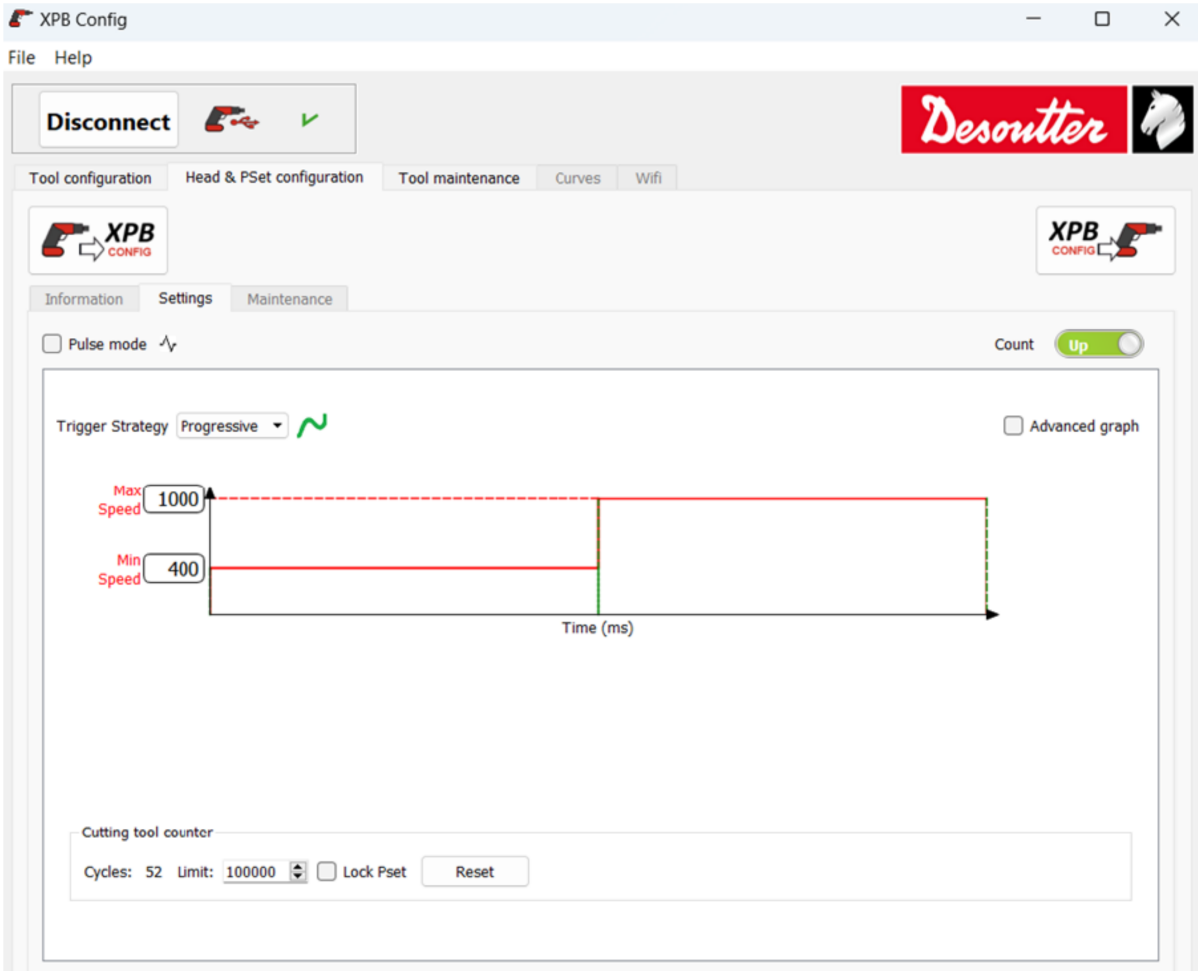
In the box *Cycle counter limit*, enter the number of drilling cycles (from 0 to 1,000,000) at which the tool will stopped.
Tick *Lock tool*.

Click this button to update the tool.

Setting Up the Drilling Cycle

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

1. Connect the tool to XPB Config.
2. Go to the tab *Head and Psets configuration*.
3. Click  to read the tool.
4. Enter the *Pset Description*.
5. Click on *Advanced Graph* tab to have access to all parameters.
6. Precisely define the drilling cycle.



ⓘ There are 4 steps in a drilling cycle. Speeds by default are shown in *Technical data*.

Speed 1

Enter the required tool speed related to first step of trigger.

Speed 2

Enter the required tool speed related to second step of trigger.

Step 1 rise time

Enter the rise time to reach speed 1 (min. 100 ms / max. 1500 ms / 200 ms by default).

Step 2 rise time

Enter the rise time to reach speed 2 (min. 100 ms / max. 1500 ms / 200 ms by default).

Deceleration time

Enter the time needed to stop the tool after trigger released (min. 100 ms / max. 300 ms / 200 ms by default).

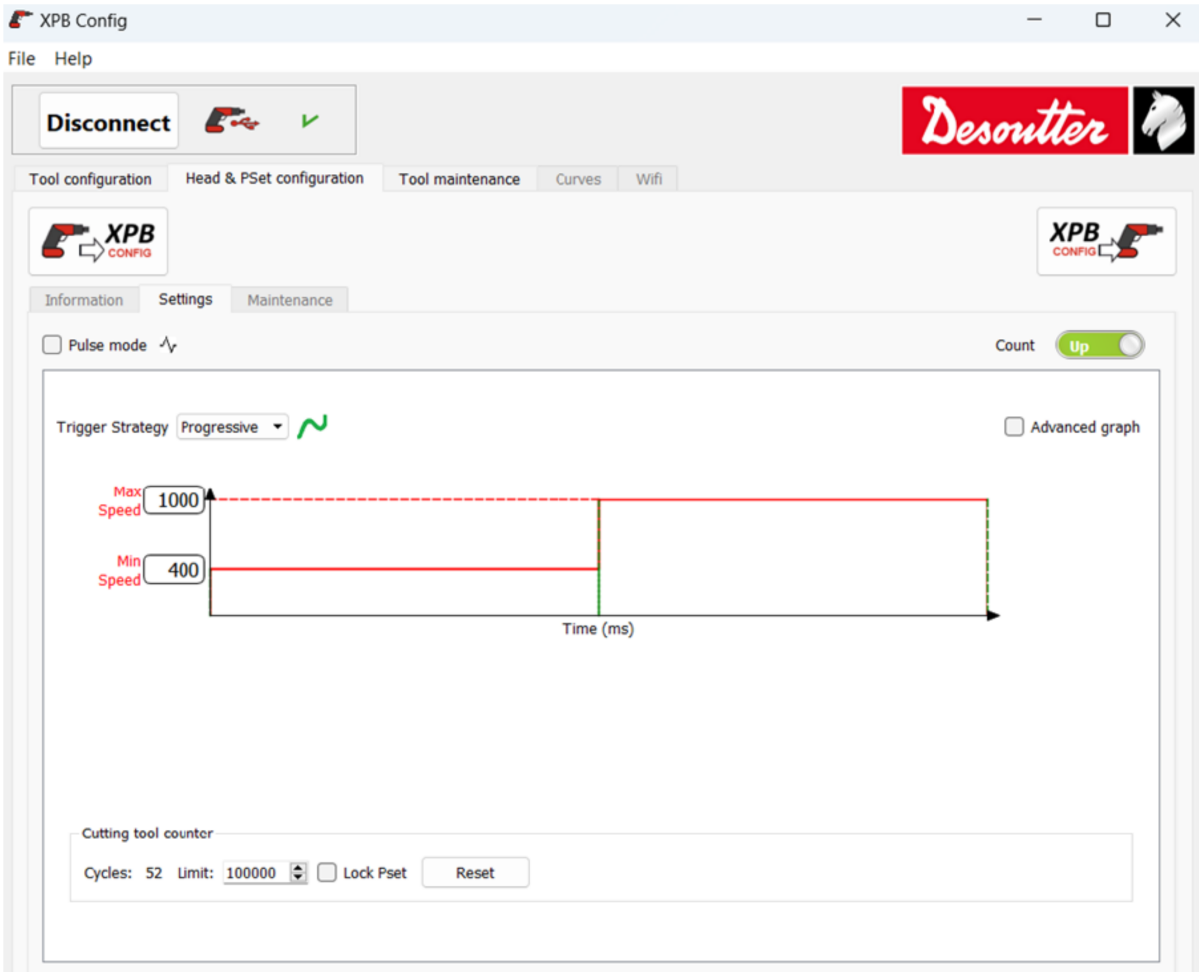
Click  to update the tool.

By default the Pulse Mode is disabled. At the end of the drilling cycle, this feature allows to free the cutting tool from chips stuck in the drilling hole.

Setting Up the Drilling Cycle

ⓘ Tools (-P) fitted with a progressive throttle action allow a low speed with a small throttle opening which is ideal when commencing a drilling operation.

1. Connect the tool to XPB Config.
2. Go to the tab *Head and Psets configuration*.
3. Click  to read the tool.
4. Enter the *Pset Description*.
5. Click on *Advanced Graph* tab to have access to all parameters.
6. Select trigger behavior from trigger strategy.



ⓘ There are 4 steps in a drilling cycle. Speeds by default are shown in *Technical data*.

Min Speed

Enter the required min tool speed.

Max Speed

Enter the required max tool speed.

Step 1 rise time

Enter the rise time to reach Min speed (min. 100 ms / max. 1500 ms / 200 ms by default).

Step 2 rise time

Enter the rise time to reach Max Speed (min. 100 ms / max. 1500 ms / 200 ms by default).

Deceleration time

Enter the time needed to stop the tool after trigger released (min. 100 ms / max. 300 ms / 200 ms by default).

By default the Pulse Mode is disabled.

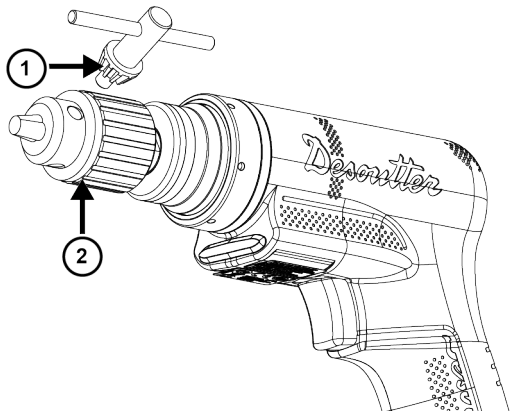
At the end of the drilling cycle, this feature allows to free the cutting tool from chips stuck in the drilling hole.

Click  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.**



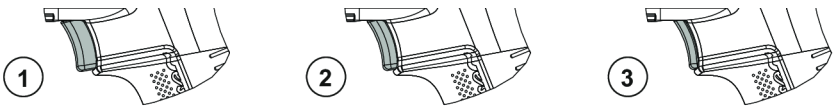
Fit the tool with a suitable chuck (2).
Insert the cutting tool into the chuck (2).
Use the chuck key (1) to tighten the cutting tool on the chuck.
Repeat this operation three times (each 120°).

ⓘ Refer to optional accessories section on Product Instructions (6159929520) for suitable references of chuck (2) and chuck key (1).

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.

ⓘ 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

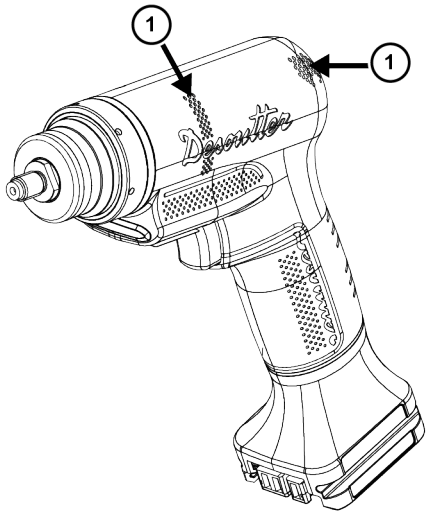
ⓘ The tools (-P) are fitted with a progressive throttle action, this allows a low speed with a small throttle opening which is ideal when commencing a drilling operation. A linear speed variation will be applied on the tool according to trigger position.

1	Trigger OFF
2	Progressive 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.

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

⚠ **WARNING Do Not Cover Cooling Holes**



Covering cooling holes (1) or any foreign material insert through cooling holes (1) will cause premature damage on the tool or cause temperature issue on the tool (E7 : motor temperature, refer to XPB Product Information for more information).

- ► Keep the cooling holes clean.
- ► Avoid covering cooling holes when the tool is in operation.

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 or at least once every 2 years.

This maintenance must at least concern the disassembly and de-greasing/cleaning of the gearbox and inspection of wear parts. Replace any worn parts as necessary, re-greasing (refer to service link for grease reference and quantity) and reassembly (refer to Service Link for glue (if any) and tightening torques).

Upgrading tool firmware

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

Firmware version needs to be 3.0.0 or above.

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.

Updating Tool Paramaters

Contact your Desoutter representative for support.

Troubleshooting

What if the tool is locked

Description	Solution
The tool is in *Standby mode*.	Press the trigger to wake up the tool.
The tool is in *Deep sleep mode*.	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 *XPB Config*. Refer to *How to prevent the tool from starting when battery pack level is too low [Page 10]*.
The tool counter is reached.	Refer to *How to lock the tool when counter is reached [Page 10]*.
The cutting tool counter is reached.	Refer to *How to manage the counter of the cutting tool [Page 10]*.

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

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More Than Productivity