

**VESSEL**  
**CE RoHS**



Light, smooth and easy to use.

# **VESSEL Oil-Xtra series**

**Air screwdrivers / Air impact wrenches**

<http://www.vessel.co.jp/english/airtools/info/oilxtra/>

**MADE IN JAPAN**

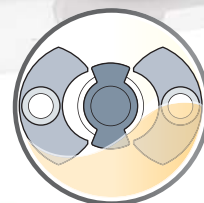
# Silent and light-weight models

## Ideal for assembly lines



### Oil-lubricated type

VESSEL Oil-Xtra series adopts an oil-lubrication mechanism, which reduces the noises when hammering, inseparable from air tools. This mechanism prevents the hammers and the anvils from burning. Environmentally-friendly model with low noise and low vibration specifications.



Standard screw: **M4.0~5.0mm**

#### No. **GT-PLXD**

6.35 Bit-sleeve type

With silencer

##### Accessories

Double-end bit: A14 $\Phi$ 2 x 65G / Air coupling: BPN-2F /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



#### No. **GT-S4.5XD**

6.35 Bit-sleeve type

With silencer

##### Accessories

Double-end bit: A14 $\Phi$ 2 x 65G / Air coupling: BPN-2F /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



**NEW**

#### No. **GT-P5XD**

6.35 Bit-sleeve type

With silencer / Rear exhaust

##### Accessories

Double-end bit: A14 $\Phi$ 2 x 65G / Air coupling: BPN-2F /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



#### No. **GT-P4.5XD**

6.35 Bit-sleeve type

With silencer / Rear exhaust

##### Accessories

Double-end bit: A14 $\Phi$ 2 x 65G / Air coupling: BPN-2F /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



Standard screw: **M5.0~6.0mm**

#### No. **GT-S6LXD**

6.35 Bit-sleeve type

With silencer

##### Accessories

Double-end bit: A14 $\Phi$ 2 x 65G / Air coupling: BPN-2F /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



#### No. **GT-P6LXD**

6.35 Bit-sleeve type

With silencer / Rear exhaust

##### Accessories

Double-end bit: A14 $\Phi$ 2 x 65G / Air coupling: BPN-2F /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



#### No. **GT-P6EXD**

6.35 Bit-sleeve type

With silencer / Rear exhaust

##### Accessories

Double-end bit: A14 $\Phi$ 2 x 65G / Air coupling: BPN-2F /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



### Air Screwdrivers

EDP#	Model	Torque range (N·m)	Capacity screw diam.(mm)		Noise (dB)		Vibration (m/s <sup>2</sup> )	Free speed (rpm)	Air consumption (m <sup>3</sup> /min)	Air hose coupling	Overall length (mm)	Weight (g)
			Tapping screw	Wood screw	LpA	LwA						
311113	GT-PLXD	9.1~19.5	3.8~4.2	3.3~3.8	86.1	97.1	20.26	11,000	0.35	G 1/4	198.5	670
311100	GT-P5XD	11.0~22.0	3.8~4.2	3.3~3.8	80.9	91.9	3.06	11,000	0.33	Rc 1/4	172	790
311085	GT-S4.5XD	15.4~23.5	3.5~4.0	2.7~3.5	47.3	58.3	9.63	14,500	0.2	G 1/4	188	585
311089	GT-P4.5XD	15.4~23.5	3.5~4.0	2.7~3.5	80.2	91.2	6.64	14,000	0.2	Rc 1/4	170	735
311115	GT-S6LXD	24.5~48.0	4.0~4.5	3.6~4.1	86.2	97.2	12.47	12,000	0.4	G 1/4	212	815
311116	GT-P6LXD	29.0~48.0	4.0~4.5	3.6~4.1	85.0	96.0	4.52	12,500	0.45	Rc 1/4	184	876
311150	GT-P6EXD	27.2~61.8	4.0~4.5	3.6~4.8	80.3	91.3	4.71	9,300	0.55	Rc 1/4	155	1,085

· Air pressure: 0.6MPa · Air hose inner diameter: 6.35mm · Overall length & weight do not include accessories. · Torque range and capacities are just for reference. They vary depending on the usage environment and other conditions.

## Powerful air motor

Our air motor, thanks to its precision polishing, rotates smoothly. The Oil-Xtra series performs at high power output by allowing itself to minimize the mechanical losses due to the clearance between such parts as bearings and rotors.

## Braking effect

Oil-lubrication mechanism quickly stops operation and avoids unnecessary inertial rotation when trigger is released. Therefore, this series is ideal for repetitive tasks required at recycling factories, etc.



## Ergonomic handle

The handle is designed to be slim and easy to hold. Even a long period of use does not stress user's wrist as the position of the gravity center is made close to the grip.

## Cushion grip

User-friendly vibration absorbing design

No. GT-P6LXD / No. GT-P6EXD

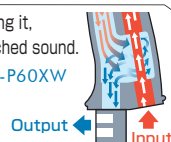
Vibration absorption



## Exhaust bypass system

By bypassing the output air before releasing it, Oil-Xtra series reduces noise and high-pitched sound.

No. GT-P6EXD / No. GT-P60XD / No. GT-P60XW



## Silencer

All Oil-Xtra models adopt 360-degree free-turn silencer.



Standard screw:

**M6.0~8.0mm**



### No. GT-S60XD

6.35 Bit-sleeve type

With silencer / Rear exhaust

#### Accessories

Double-end bit: A14  $\Phi$ 2,  $\Phi$ 3 x 65E /  
Air coupling: BPB-2 /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



### No. GT-P60XD

6.35 Bit-sleeve type

With silencer / Rear exhaust

#### Accessories

Double-end bit: A14  $\Phi$ 2,  $\Phi$ 3 x 65E /  
Air coupling: BPB-2 /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



Standard bolt:

**M6.0~8.0mm**



### No. GT-S60XW

With silencer / Rear exhaust

9.5 Pin-lock type

#### Accessories

Air coupling: BPB-2 /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32



### No. GT-P60XW

With silencer / Rear exhaust

9.5 Pin-lock type

#### Accessories

Air coupling: BPB-2 /  
Lubrication oil for rotating mechanism: ISO VG-10 /  
Lubrication oil for impact mechanism: ISO VG-32

## Air screwdriver

EDP#	Model	Capacity screw diam.(mm)		Noise (dB)		Vibration (m/s <sup>2</sup> )	Free speed (rpm)	Air consumption (m <sup>3</sup> /min)	Air hose coupling	Overall length (mm)	Weight (g)
		Tapping screw	Wood screw	LpA	LwA						
324023	GT-S60XD	4.0~5.0	3.8~4.5	89.0	100.0	18.59	7,500	0.38	Rc 1/4	198	1,030
324021	GT-P60XD	4.0~5.0	3.8~4.5	90.4	90.4	8.69	7,500	0.38	Rc 1/4	176	1,130

\* Air pressure...0.6MPa \* Air hose inner diameter...6.35mm \* Overall length & weight do not include accessories. \* Capacities are just for reference. They vary depending on the usage environment and other conditions.

## Air impact wrench

EDP#	Model	Torque range (N·m)	Capacity screw diam.(mm)		Noise (dB)		Vibration (m/s <sup>2</sup> )	Free speed (rpm)	Air consumption (m <sup>3</sup> /min)	Air hose coupling	Overall length (mm)	Weight (g)
			Standard bolt diam.		LpA	LwA						
324022	GT-S60XW	49.0~116.8	6.0~8.0	6.0~8.0	84.5	95.5	13.78	7,500	0.38	Rc 1/4	192	1,000
324020	GT-P60XW	49.0~116.8	6.0~8.0	6.0~8.0	84.5	95.5	8.95	7,500	0.38	Rc 1/4	169.4	1,100

\* Air pressure...0.6MPa \* Air hose inner diameter...6.35mm \* Overall length & weight do not include accessories. \* Torque range and capacities are just for reference. They vary depending on the usage environment and other conditions.

## Oil-Xtra series employs a work-safety design to prevent health problems.



### Compliant with CE machine safety directives

The production specifications of Oil-Xtra series are compliant with EN792. Vibration and noise level are also presented in accordance with EN / ISO standards.

ISO 8662-1, 28927-2 Hand-held portable power tools - Test methods for evaluation of vibration emission -  
ISO 15744 Hand-held non-electric power tools - Noise measurement code -

### About noise

#### Standards for noise measurement

- ISO 15744  
Hand-held non-electric power tools - Noise measurement code -
- JIS Z 8733  
Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane

#### How the noise level is represented

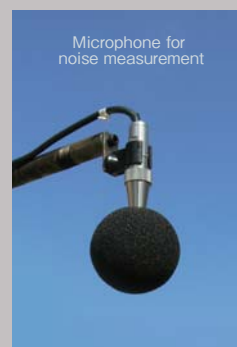
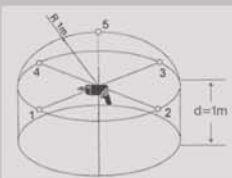
- Terms used to describe loudness  
Sound pressure is represented in the measuring unit of dB (decibel).
- A-weighting  
A-weighted sound measurement accounts for the fact that human hearing sensitivity depends on sound frequency.

##### **LpA** A-weighted sound pressure level (hourly average)

Sound pressure emitted from the noise source is measured over a certain period of time and the average value is calculated. Measurement was made at five positions in the distance of 1m.

##### **LwA** A-weighted sound power level

Sound power emitted from the noise source is measured. Although sound pressure level are affected by various conditions, A-weighted sound power levels can be regarded as the standard.



#### Guidelines established for the prevention of noise-related disorders

<http://www.mhlw.go.jp/new-info/kobetu/roudou/gyousei/anzen/040324-9.html>

### About vibration

#### Standards for vibration measurement

- ISO 8662-1  
Hand-held portable power tools - Measurement of vibrations at the handle Part 1: General
- ISO 28927-2  
Hand-held portable power tools - Test methods for evaluation of vibration emission Part 2: Wrenches, nutrunners and screwdrivers
- JIS B7762-1  
Hand-held portable power tools - Measurement of vibrations at the handle - Part 1: General
- JIS B7762-7  
Hand-held portable power tools - Measurement of vibrations at the handle Part 7: Wrenches, screwdrivers and nutrunners



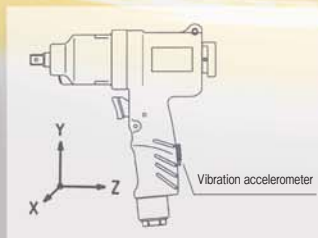
#### How the vibration level is represented

- Combination of frequency-weighted RMS acceleration values measured in three vibration directions  
This figure is required to estimate "vibration exposure time A(8)," which is necessary for the management of vibration tool operation.

- ① Vibration acceleration level is measured at the gripping zone simultaneously in the three directions (X-Y-Z) with a hand-arm vibration meter in accordance with the standards for each type of vibration tools.
- ② Then, the measured values are adjusted as the effect on human hand / arm varies by vibration frequency.
- ③ And these adjusted values are combined to represent "vibration level."

$$a = \sqrt{a_x^2 + a_y^2 + a_z^2}$$

$a_x, a_y, a_z$  represent the frequency-weighted RMS acceleration values of X-, Y-, Z-axis respectively.



#### For prevention of vibration syndrome

<http://www.mhlw.go.jp/new-info/kobetu/roudou/gyousei/anzen/090820-2.html>

Due to product improvements, the above specifications and measurements are subject to change without notice.

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