

VESSEL

CE RoHS



High torque guarantees quick fastening.

Oil-Xtra

Cushion grip absorbs vibration.

Silencer reduces exhaust noise.

Light, smooth and easy to use.

VESSEL Oil-Xtra series

Air screwdrivers / Air impact wrenches

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

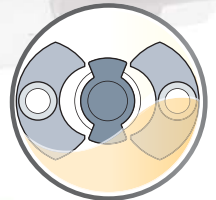
MADE IN JAPAN

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: A14Φ2 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: A14Φ2 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: A14Φ2 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: A14Φ2 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: A14Φ2 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: A14Φ2 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: A14Φ2 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 ²)	Free speed (rpm)	Air consumption (m ³ /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

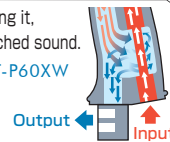
No. GT-P6LXD / No. GT-P6EXD



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 Φ2, Φ3 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-P60XD

6.35 Bit-sleeve type

With silencer / Rear exhaust

Accessories

Double-end bit: A14 Φ2, Φ3 x 65E /
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 ²)	Free speed (rpm)	Air consumption (m ³ /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

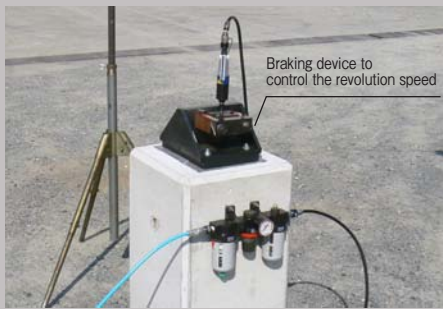
* Air pressure: ~0.6MPa · Air hose inner diameter: ~6.35mm · Overall length & weight do not include accessories. · Capacities are just for reference. They vary depending on the usage environment and other conditions.

Air impact wrench

EDP#	Model	Torque range (N·m)	Capacity screw diam.(mm)		Noise (dB)		Vibration (m/s ²)	Free speed (rpm)	Air consumption (m ³ /min)	Air hose coupling	Overall length (mm)	Weight (g)
			Standard bolt diam.	Standard screw 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

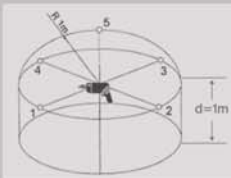
- Terms used to describe loudness
Sound pressure is represented in the measuring unit of dB (decibel).
- A-weighting
A-weighted sound measurement accounts for the fact that human hearing sensitivity depends on sound frequency.

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

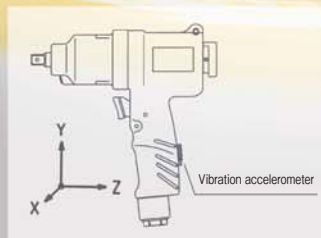


How the vibration level is represented

- 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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