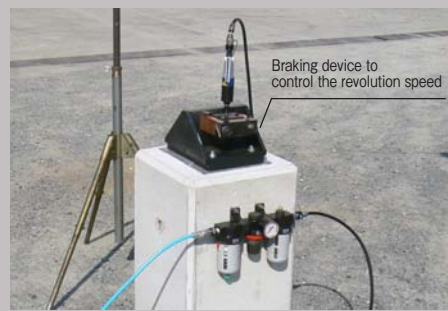


Oil-Xtra series employs a work-safety design to prevent health problems.



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

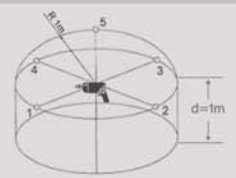
- ISO 15744 Hand-held non-electric power tools - Noise measurement code -
- JIS Z 8733 Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane

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.

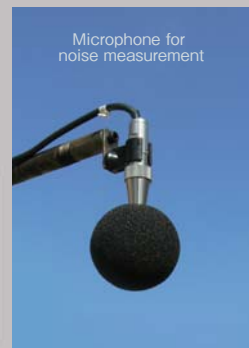
LpA A-weighted sound pressure level (hourly average)

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



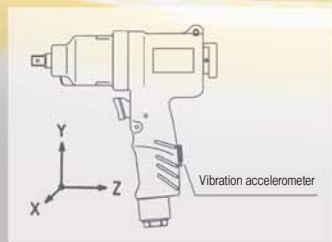
How the vibration level is represented

- 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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New Japan quality



Oil-Xtra
NEW
No. GT-S6LXD / No. GT-P6LXD

Light, smooth and easy to use.

VESSEL Oil-Xtra series

Air screwdrivers / Air impact wrenches

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

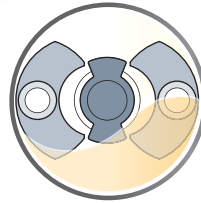
MADE IN JAPAN

Reduces annoying noise at a construction site!



Self-lubrication mechanism

VESSEL Oil-Xtra series adopts an oil-lubrication mechanism, which softens the hammering noise inseparable from the air tools. Its hammers and anvils would not be burned so that the durability has been dramatically improved. Novel environmentally-friendly model with low-noise / low-vibration spec.



Braking effect

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



Powerful air motor

Our air rotors are finished with high precision to secure smooth rotation. High power output is guaranteed by minimizing the power loss from clearance between parts.



Ergonomic grip

Its 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

Absorbs vibration and gentle on the operator's hand.

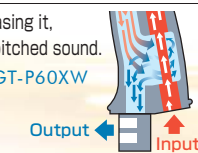
No.GT-P6LXD / No.GT-P6EXD



Exhaust bypass system

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

No.GT-P6LXD / No.GT-P60XD / No.GT-P60XW



Silencer

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

Standard screw: M4.0~5.0mm

No.GT-PLXD

6.35 Bit-sleeve type

With silencer

Accessories
Double-end bit: A14 Φ2 x 65G / Air coupling: BPN-2F /
Lubrication oil for rotating mechanism, ISO VG-10 /
Lubrication oil for impact mechanism, ISO VG-32



About 20% Lightened

No.GT-S4.5XD

6.35 Bit-sleeve type

With silencer

Accessories
Double-end bit: A14 Φ2 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 Φ2 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 Φ2 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-P6LXD

6.35 Bit-sleeve type

With silencer / Rear exhaust

Accessories
Double-end bit: A14 Φ2 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-P6EXD

6.35 Bit-sleeve type

With silencer / Rear exhaust

Accessories
Double-end bit: A14 Φ2 x 65G / Air coupling: BPN-2F /
Lubrication oil for rotating mechanism, ISO VG-10 /
Lubrication oil for impact mechanism, ISO VG-32



Standard screw: M6.0~8.0mm

About 20% Lightened

No.GT-P60XD

6.35 Bit-sleeve type

With silencer / Rear exhaust

Accessories
Double-end bit: A14 Φ2, Φ3 x 65E /
Air coupling: BPN-2 /
Lubrication oil for rotating mechanism, ISO VG-10 /
Lubrication oil for impact mechanism, ISO VG-32



Standard bolt: M6.0~8.0mm

About 20% Lightened

No.GT-P60XW

With silencer / Rear exhaust

9.5 Pin-lock type
Accessories
Air coupling: BPN-2 /
Lubrication oil for rotating mechanism, ISO VG-10 /
Lubrication oil for impact mechanism, ISO VG-32



Air Screwdrivers

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						
311113	GT-PLXD	3.5~4.0	2.7~3.5	86.1	97.1	20.26	11,500	0.35	G 1/4	198.5	670
311085	GT-S4.5XD	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	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	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	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	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. · Driving capacity is to be used as a rough guide and varies by usage environment and other conditions.

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						
324021	GT-P60XD	4.0~5.0	3.8~4.5	90.4	101.4	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. · Driving capacity is to be used as a rough guide and varies by 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 bolt diam.	LpA	LwA						
324020	GT-P60XW	49.0~108.0	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. · Driving capacity & torque range are to be used as a rough guide and vary depending on usage environment and other conditions.