

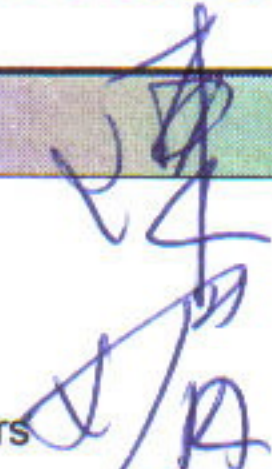
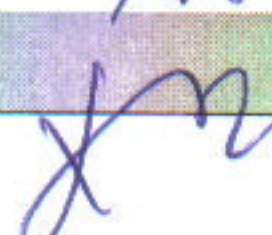


Machan International Co., Ltd.

www.boxo-tools.com

No.354 Dama Rd., Waipu, Taichung 438-56, Taiwan TEL: + 886-4-26834666 FAX: + 886-4-26834672

TEST REPORT VIBRATIONS PRODUCED BY THE MACHINERY

| | | | |
|---|--|--|------------|
| Product: | 1/2" Pneumatic composite impact wrench | | |
| Name and address of the applicant: | Machan International Co., Ltd. No.354, Dama Rd., Waipu Dist., Taichung City 438, Taiwan (R.O.C.) | | |
| Name and address of the manufacturer: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) | | |
| Name and address of the factory: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) | | |
| Rating and principal Characteristics: | 190 mm, max. RPM 8500, max. air pressure 90 psi. | | |
| Trade mark (if any): | None. | | |
| Model/type: | NI-4304 | | |
| Additional information (if necessary): | None. | | |
| Tested according to: | Machinery Directive 2006/42/EC Annex I, item 1.5.8, EN ISO 11148-6:2010, EN 28662-1:1993, EN ISO 15744:2008 | | |
| Name and address of the testing laboratory: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) | | |
| Tested at: | 2010/09/30 to 2010/09/30. The test results relate only to the sample(s) tested. | | |
| Tested in period: | | | |
| Test by: |  | | 2010/09/30 |
| | Signature | | date |
| | Name in block letters | | |
| Verified by: |  | | 2010/09/30 |
| | Signature | | date |
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PRODUCT DESCRIPTION:

1/2" Pneumatic composite impact wrench

, see separate test report.

SUMMARY OF TESTING

Description of the measurements, method, position etc. .

Tested according to EN 28662-1 and EN ISO 8662-8. Declared according to EN 12096.

Load condition is according to EN ISO 8662-8 with highest speed, if available, at 6.3 bar

Accelerometer placement, see figure below.

The operator was standing with the tool in his right hand while operating it during " No-load " condition.

Frequency band: HA (Hand-Arm)

Frequency range: 6,3 Hz to 1,25 kHz

Figure:

Accelerometer: Z-direction





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Supplementary values:

| INSTRUMENTS Equipment used in the measurements: | |
|--|---|
| Vibration Analyser | Type: VM-VA Manufacturer: LFT |
| | |

Test results, weighted acceleration:

| Type of tool | Axis | (m/s ²) | (m/s ²) | (m/s ²) | (m/s ²) |
|--------------|----------|---------------------|---------------------|---------------------|---------------------|
| | Z | 4.38 | 4.31 | 4.34 | 4.33 |
| | | | | | |



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TEST REPORT AIRBORNE NOISE EMISSIONS

| | |
|---|--|
| Product: | 1/2" Pneumatic composite impact wrench |
| Name and address of the applicant: | Machan International Co., Ltd. No.354, Dama Rd., Waipu Dist., Taichung City 438, Taiwan (R.O.C.) |
| Name and address of the manufacturer: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) |
| Name and address of the factory: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) |
| Rating and principal Characteristics: | 190 mm, max. RPM 8500, max. air pressure 90 psi. |
| Trade mark (if any): | None. |
| Model/type: | NI-4304 |
| Additional information (if necessary): | None. |
| Tested according to: | Machinery Directive 2006/42/EC Annex I, item 1.5.8, EN ISO 11148-6:2010, EN 28662-1:1993, EN ISO 15744:2008 |
| Name and address of the testing laboratory: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) |
| Tested at: | 2010/09/30 to 2010/09/30. The test results relate only to the sample(s) tested. |
| Tested in period: | |
| Test by: | <div>Signature</div> <div>2010/09/30</div> <div>date</div> |
| Verified by: | <div>Signature</div> <div>2010/09/30</div> <div>date</div> |
| | <div>Name in block letters</div> |

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PRODUCT DESCRIPTION:

1/2" Pneumatic composite impact wrench

Exhaust air, see separate test report.

INSTRUMENTS USED FOR MEASUREMENTS:

Sound Analyser

Type: 320

Manufacturer: CENTER TECHNOLO CORP.

SUMMARY OF TESTING

Tested according to EN ISO 15744 and declared according to ISO 4871:1984(E)

Background noise measured in center of the measurement surface: 61.15 dB(A)

Corrections for background noise K1: 0.34 dB $\Delta L = 0.25$ dB Environmental correction K2: 11.8 dB

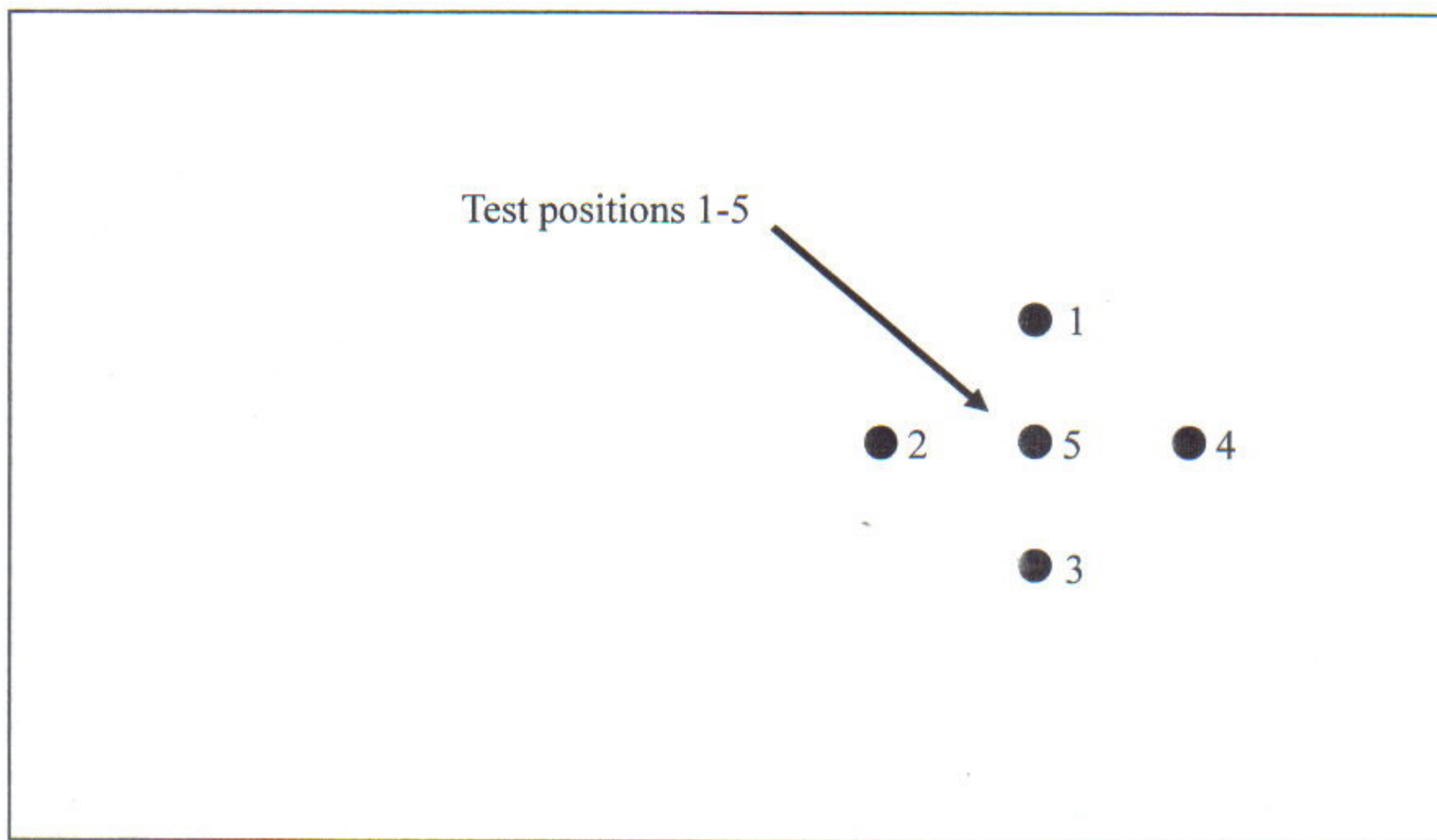
Ambient room temperature: $33^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Test conditions: No-load operating condition

Test room and positions indicated on figure below.

TEST ROOM

Length test room: 12 m Width test room: 11.5 m Height ceiling: 3.4 m





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Supplementary values:

| Type of machine | A-weighted (dB) | | | | | | | | C-weighted (dB) |
|-----------------|-----------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-------------------------|
| | Mic. Pos. 1 | Mic. Pos. 2 | Mic. Pos. 3 | Mic. Pos. 4 | Mic. Pos. 5 | Leq. mean | Min. fast | Max. fast | Peak value (max. value) |
| | 91.1 | 91.5 | 90.9 | 91.2 | 91.5 | 91.2 | 90.9 | 101.9 | 96.4 |

Main value:

| TYPE OF MACHINE: | | | | | | |
|------------------|--|------|------|------|------|------|
| 1 | A-weighted sound pressure level (L_{pf}) | 91.1 | 91.5 | 90.9 | 91.2 | 91.5 |
| 2 | A-weighted sound power level (L_w) | 90.9 | | | | |
| 3 | Peak C-weighted sound pressure level | 96.4 | | | | |

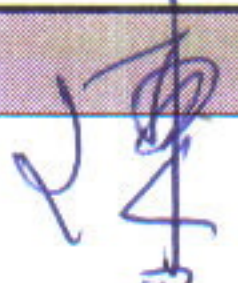
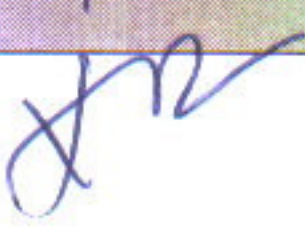


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TEST REPORT R.P.M

| | | | |
|---|--|---|------------|
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| Name and address of the manufacturer: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) | | |
| Name and address of the factory: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) | | |
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| Trade mark (if any): | None. | | |
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| Additional information (if necessary): | None. | | |
| Tested according to: | Machinery Directive 2006/42/EC Annex I, item 1.5.8, EN ISO 11148-6:2010, EN 28662-1:1993, EN ISO 15744:2008 | | |
| Name and address of the testing laboratory: | JU HE Industry Co., Ltd. No.6, Aly. 26, Ln. 667, Zhongshan Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.) | | |
| Tested at: | 2010/09/30 to 2010/09/30. The test results relate only to the sample(s) tested. | | |
| Tested in period: | | | |
| Test by: | | | 2010/09/30 |
| | Signature |  | date |
| | Name in block letters | X/D | |
| Verified by: | | | 2010/09/30 |
| | Signature |  | date |
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PRODUCT DESCRIPTION:

1/2" Pneumatic composite impact wrench

Exhaust air, see separate test report.

INSTRUMENTS USED FOR MEASUREMENTS:

STROBOSCOPE

Type: DT-205NR

Manufacturer: SHIMPO

SUMMARY OF TESTING

Tested according to ISO 3744:1994(E) and declared according to ISO 4871:1984(E)

Dynamic Test Pressure : 90 ± 2 PSI

Air Inlet : 1/2 ", PT

Test Line Size: 3/8 inch

| MODEL | R.P.M | PS |
|-------|-------|----|
| | 8612 | |
| | 8754 | |