**PTO35-T Parts List**

*Desoutter Limited* Eaton Road Hemel Hempstead Hertfordshire HP2 7DR England

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Article</td>
<td>Référence</td>
<td>Référence</td>
<td>Qté</td>
<td>No. Article</td>
<td>Référence</td>
<td>Qté</td>
</tr>
<tr>
<td>1</td>
<td>453803</td>
<td>Motor Casing, compl.</td>
<td>1 Accessory Included</td>
<td>1</td>
<td>453803</td>
<td>Motor Casing</td>
</tr>
<tr>
<td>2</td>
<td>451653</td>
<td>Strainer</td>
<td>1 37 453983</td>
<td>2</td>
<td>452923</td>
<td>Tube</td>
</tr>
<tr>
<td>3</td>
<td>453903</td>
<td>Adapter, compl. (1/4&quot; BSP)</td>
<td>1 Optional Accessories</td>
<td>3</td>
<td>450683</td>
<td>O-Ring (15.1 x 1.6)</td>
</tr>
<tr>
<td>4</td>
<td>453683</td>
<td>Adapter</td>
<td>1 39 453953</td>
<td>4</td>
<td>453943</td>
<td>O-Ring (15.1 x 1.6)</td>
</tr>
<tr>
<td>5</td>
<td>453683</td>
<td>Push Button</td>
<td>1 41 453683</td>
<td>6</td>
<td>453823</td>
<td>Valve, compl.</td>
</tr>
<tr>
<td>6</td>
<td>453823</td>
<td>Valve, compl.</td>
<td>1 43 453823</td>
<td>7</td>
<td>453683</td>
<td>Exhaust Kit, compl.</td>
</tr>
<tr>
<td>7</td>
<td>453845</td>
<td>Reversing Knob</td>
<td>1 45 453845</td>
<td>8</td>
<td>459933</td>
<td>Stop Screw (SBSS 6 x 5)</td>
</tr>
<tr>
<td>8</td>
<td>452383</td>
<td>Spring</td>
<td>1 47 452383</td>
<td>9</td>
<td>452923</td>
<td>Retainer Pin</td>
</tr>
<tr>
<td>9</td>
<td>453833</td>
<td>Valve Pin</td>
<td>1 49 453833</td>
<td>10</td>
<td>453833</td>
<td>Reversing Valve</td>
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<td>Reversing Valve</td>
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<td>450113</td>
<td>Lockring (D6)</td>
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<td>Lockring (D6)</td>
<td>1 51 453833</td>
<td>12</td>
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<td>Valve Sleeve</td>
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<td>Valve Sleeve</td>
<td>1 53 453833</td>
<td>13</td>
<td>450683</td>
<td>O-Ring (15.1 x 1.6)</td>
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<td>O-Ring (15.1 x 1.6)</td>
<td>1 54 449853</td>
<td>14</td>
<td>449853</td>
<td>Pin (R8P 2 x 20)</td>
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<td>14</td>
<td>449853</td>
<td>Pin (R8P 2 x 20)</td>
<td>1 56 495713</td>
<td>15</td>
<td>453765</td>
<td>Motor, compl.</td>
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<tr>
<td>15</td>
<td>453765</td>
<td>Motor, compl.</td>
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<td>16</td>
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<td>End Plate, compl.</td>
</tr>
<tr>
<td>16</td>
<td>453722</td>
<td>Bearing (925-Z)</td>
<td>1 59 495713</td>
<td>17</td>
<td>453722</td>
<td>Ball Bearing</td>
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<tr>
<td>17</td>
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<td>Ball Bearing</td>
<td>1 61 495713</td>
<td>18</td>
<td>495713</td>
<td>Cylinder</td>
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<tr>
<td>18</td>
<td>495713</td>
<td>Cylinder</td>
<td>1 62 495713</td>
<td>19</td>
<td>495713</td>
<td>Rotor</td>
</tr>
<tr>
<td>19</td>
<td>495713</td>
<td>Rotor</td>
<td>1 63 495713</td>
<td>20</td>
<td>495713</td>
<td>Valve Set</td>
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<tr>
<td>20</td>
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<td>Valve Set</td>
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<td>21</td>
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<td>End Plate, compl.</td>
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<td>21</td>
<td>495713</td>
<td>End Plate, compl.</td>
<td>1 66 495713</td>
<td>22</td>
<td>495713</td>
<td>Key (RK 2 x 2 x 10)</td>
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<tr>
<td>22</td>
<td>495713</td>
<td>Key (RK 2 x 2 x 10)</td>
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<td>23</td>
<td>495713</td>
<td>End Plate</td>
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<td>495713</td>
<td>End Plate</td>
<td>1 69 495713</td>
<td>24</td>
<td>495713</td>
<td>Ball Bearing (608-Z)</td>
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<tr>
<td>24</td>
<td>495713</td>
<td>Ball Bearing (608-Z)</td>
<td>1 70 495713</td>
<td>25</td>
<td>495713</td>
<td>Ring Screw</td>
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<tr>
<td>25</td>
<td>495713</td>
<td>Ring Screw</td>
<td>1 72 495713</td>
<td>26</td>
<td>495713</td>
<td>Data Plate</td>
</tr>
</tbody>
</table>

* Indicates normal replacement items. It is recommended that adequate stocks are held for servicing requirements.

> * Bedeutet normale Verschleißteile. Es empfiehlt sich eine angemessene Menge für Wartungszwecke auf Lager zu halten.*

> * Le symbole astérique (*) indique des articles de rechange normaux. Il est recommandé d’en conserver des stocks suffisants pour assurer toutes les opérations d’entretien courantes.*

> * Indica elementos de reposicion regular. Se recomienda tener una cantidad adecuada de los mismos en reposa para efectos de mantenimiento.*

> * Indica items que son substituídos regularmente. É recomendado que esteos acabadous sejen mantidos para requisitos de manutenção.*

> * L’astérisque indique des pièces de rechange normales. Il est recommandé de les conserver en stock pour les travaux de réparation.*

> * Σήμαντες γνωστοποιούν είδη (προσαρτήματα) για συντηρητική χρήση. Συνιστάται να υπάρξουν αντικείμενα αυτά σε ύπαρξη για συντηρητική χρήση.*

> * Betekent normale reserveonderdelen. Het verdient aanbeveling om voldoende voor onderhoudsbehoeften voorraad te hebben.*

> * Indikerer normale udstyrfremdamer. Anbefales at der holdes på lager for serviceformålene.*

> * Angir normale reservdelar. Anbefales att det hålls på lager för servicebehovet.*

> * Indica elementos de reposicion normales. Se recomienda tener un número adecuado de estos elementos en reposa para efectos de mantenimiento.*

> * Σηματοδοτεί τα επισημαντημένα άρηα (προσαρτήματα) για συντηρητική χρήση. Συνιστάται να υπάρχουν αντικείμενα αυτά σε ύπαρξη για συντηρητική χρήση.*

> * Indica tavlans normala reservvaror. Det anbefales att de återstår på lager för servicebehovet.*

> * Vittaa tavallisia varaosia. Suosittelemme, että niitä voidaan pitää pienein varastossa huoltrapaikasta varten.*

> * Virtaavat tavalliset varaosat. Sajbrownem teemme, että niitä voidaan pitää pienin varastossa huoltrapaikasta varten.*

> * Vittaa tavalliset varaosia. Sajbrownem teemme, että niitä voidaan pitää pienin varastossa huoltrapaikasta varten.*

> * Σηματοδοτεί τα επισημαντημένα άρηα (προσαρτήματα) για συντηρητική χρήση. Συνιστάται να υπάρχουν αντικείμενα αυτά σε ύπαρξη για συντηρητική χρήση.*

> * Indicó elementos de reposiçao normais. Se recomenda manter um número adequado destes elementos em reposição para fins de manutenção.*
# Parts List

**Desoutter Limited** Eaton Road Hemel Hempstead Hertfordshire HP2 7DR England

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>453603</td>
<td>Pulse Unit</td>
<td>1</td>
</tr>
<tr>
<td>102</td>
<td>453613</td>
<td>Housing, compl.</td>
<td>1</td>
</tr>
<tr>
<td>103</td>
<td>453615</td>
<td>Housing</td>
<td>1</td>
</tr>
<tr>
<td>104</td>
<td>449833</td>
<td>Valve (GPK 3 x 8)</td>
<td>1</td>
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<tr>
<td>105</td>
<td>453623</td>
<td>Adjustment Screw</td>
<td>1</td>
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<tr>
<td>106</td>
<td>450533</td>
<td>O-Ring (2.1 x 1.3 Viton)</td>
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<td>107</td>
<td>453633</td>
<td>Plug</td>
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<td>108</td>
<td>450745</td>
<td>O-Ring (3.1 x 1.6 Viton)</td>
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<td>109</td>
<td>450728</td>
<td>Pin (2.5 x 7.8)</td>
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<td>110</td>
<td>450527</td>
<td>O-Ring (12.3 x 2.4 Viton)</td>
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<td>111</td>
<td>450353</td>
<td>Support Ring (13/17 Hytrel)</td>
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<td>112</td>
<td>450473</td>
<td>O-Ring (25 x 2 Viton)</td>
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<td>113</td>
<td>453583</td>
<td>End Part</td>
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<tr>
<td>114</td>
<td>453573</td>
<td>Ring Screw</td>
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<td>115</td>
<td>453563</td>
<td>Cam Shaft</td>
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<td>116</td>
<td>453553</td>
<td>Vane</td>
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<td>117</td>
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<td>453131</td>
<td>Spring</td>
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<td>120</td>
<td>452603</td>
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<td>449873</td>
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<td>123</td>
<td>453783</td>
<td>Bushing</td>
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<td>125</td>
<td>453333</td>
<td>Washer</td>
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<tr>
<td>126</td>
<td>453643</td>
<td>Plug</td>
<td>1</td>
</tr>
</tbody>
</table>

**Service Equipment**

| A    | 451133  | Chomp  | 1 |
| B    | 451123  | Pullet | 1 |
| C    | 450963  | Mandrel| 1 |
| D    | 451143  | Assembly Plate | 1 |
| E    | 451163  | Mandrel| 1 |
| F    | 451173  | Syringe| 1 |
| G    | 451103  | Face Spanner Adj.| 1 |
| H    | 451245  | Face Spanner | 1 |
| J    | 450933  | Grease Gun | 1 |

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## Data

### Desoutter Limited
Eaton Road Hemel Hempstead Hertfordshire HP2 7DR England

<table>
<thead>
<tr>
<th>NL</th>
<th>Lyd og vibrations deklaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verklaring betreffende geluids- en trillingswaarden</td>
<td>Lydtryksniveau (dBA) = 75 ± 3 ref PN8NTC1.2 Testkode</td>
</tr>
<tr>
<td>Geluidsperv (m/m²) &lt; 2,5 ref ISO 8626/7</td>
<td>Vibrationsniveau (m/s²) &lt; 2,5 ref ISO 8626/7</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>N</th>
<th>Lasuunto koskien ilmoitettuja meluja ja tärinäarvoja</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lydtryksnivå (dBA) = 75 ± 3 ref PN8NTC1.2 Testkoden</td>
<td>Vibrationsnivå (m/s²) &lt; 2,5 ref ISO 8626/7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dk</th>
<th>Lyd og vibrations deklaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lydtryksniveau (dBA) = 75 ± 3 ref PN8NTC1.2 Prøve</td>
<td>Vibrationsniveau (m/s²) &lt; 2,5 ref ISO 8626/7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIn</th>
<th>Lasuunto koskien ilmoitettuja meluja ja tärinäarvoja</th>
</tr>
</thead>
<tbody>
<tr>
<td>Äänen pitkävaraisuus (dBA) = 75 ± 3 viite PN8NTC1.2 Testkoodi</td>
<td>Värimiestysysy (m/s²) &lt; 2,5 viite ISO 8626/7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GR</th>
<th>Aplájató peri i/óntíou kai kradosmou</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ακίνητος θορύβος (dBA) = 75 ± 3 ref PN8NTC1.2 Test Code</td>
<td>Ολικής θορύβου (m/s²) &lt; 2.5 ref ISO 8626/7</td>
</tr>
</tbody>
</table>

Vi, Desoutter, kan inte drages till ansvar för konsekvenserna av att använda de deklarerade värdena i stedet för att använda de värden som anges på den aktuella belastning målt på arbetstid och som skulle ligge till grund för riskbearvande av en arbetssituation som vi inte har kontroll över.
PT035-T  Instructions

Desoutter Limited  Eaton Road  Hemel Hempstead  Hertfordshire HP2 7DR England

WARNING
BEFORE USING, INSTALLING, REPAIRING OR CHANGING ACCESSORIES, READ AND UNDERSTAND THESE INSTRUCTIONS

WARNING
1. Use an air supply which is: water free, filtered and regulated to 6.3 bar.
2. Use impact quality sockets, in good condition.
3. Eye and ear protection must be worn.
4. Disconnect the air supply before handling the socket, adjusting the impulse unit or dismantling the tool.
5. Keep loose articles of clothing and long hair away from the tool while in use.
6. Hold the tool correctly; be ready to counteract normal or sudden movements - have both hands available.
7. Immediately after adjusting the impulse unit, check for correct operation.
8. Do not use with reduced air pressure or in a worn condition: the impulse unit may not operate, resulting in sudden rotation of the tool handle.
9. Ensure that the workplace is properly supported.
10. Must not be used in explosive atmospheres.
11. Power tools are not insulated from coming into contact with electric power.

WARNING
VITON RUBBER COMPONENTS
IN THE EVENT OF FIRE, HIGHLY TOXIC COMBUSTION PRODUCTS (INCLUDING HYDROGEN FLUORIDE) CAN CAUSE SEVERE PERSONAL INJURY.
DO NOT HEAT ABOVE 300°C.
DO NOT USE A HEAT GUN TO DISMANTLE PULSE UNIT.

STATEMENT OF USE
This product is designed for installing and removing of threaded fasteners. No other use permitted.

LUBRICATION
This tool is designed to operate on a dry air line. It can also operate on a lubricated air line. Service life and performance may be enhanced when a lubricated air line is used.

WEIGHT
0.95 kg.

ACCESSORIES
A range of accessories are available and suitable items should be selected from the Accessories Catalogue.

AIR QUALITY
- For optimum performance and maximum machine life we recommend the use of compressed air with a dew point between +2°C and +10°C.
- Use a separate air filter installed as close as possible to the machine.
- Blow out the hose before connecting.
- There is no disadvantage for the operation of the machine if the compressed air contains a small quantity of oil (1-5 mg/m³). Air quality according to ISO/TC118, quality class 2.4.3 or 3.4.4 is recommended.
- With extremely dry air, service life of vanes may be reduced.

Compressed air connection and hose size - see the spare parts list. Make sure that the hose size is correct.

SETTING OF TIGHTENING TORQUE
The torque is adjusted by setting the adjusting screw with a groove. Do not mix up the adjusting screw and the oil filling plug with hex key, hole key. The adjusting screw is to be turned clockwise to increase the tightening torque.

Note: It is recommended to start at min. torque setting - when the adjustment screw is screwed out approx. 7 turns from the bottom position. Do not screw out more than 8 turns from max.

Min. torque setting:
Set the adjusting screw at min level. At hard joints and min. setting, reduced air pressure will improve the accuracy.

Check the tightening torque given on the joint in question.

The adjusting screw is accessible through the hole in the housing. If necessary, turn the outlet spindle.
After adjusting do not forget to assemble the plug in the hole in the housing.

CHECKING THE OIL IN THE PULSE-UNIT
The oil level shall be checked after every 50,000 tightening cycles, see page 7.
If the tightening torque tends to be remarkably lower than the setting made, or if the pulse frequency goes up - check the oil level and fill with hydraulic oil according to the instructions.
Change the oil at the overhauls. Use hydraulic oil: 22cSt/40°C (ISOVG22)

RUST PROTECTION AND INTERNAL CLEANING
Water in the compressed air, dust and wear particles cause rust and sticking of vanes, valves etc.
This can be solved by flushing with oil (some drops), running the machine for 3-10 seconds and absorbing the oil in a cloth.
Make this preparation before longer standstills.

OVERHAUL, LUBRICATION AND CHANGE OF OIL
The machine is normally used as a heavy-duty machine. It should, therefore, be dismantled, overhauled and cleaned after 100,000 (ambitious service level) to 250,000 (maximum) tightenings. If it is not running properly, it should be taken out of service for inspection.
Note: Check or change the O-ring around the avvit's shaft. Also carefully clean the O-ring's groove.

The strainer at the air inlet and the exhaust silencer should be cleaned frequently in order to prevent clogging, which reduces the capacity. At the overhauls the throttle valve and bearings must be cleaned and lubricated with grease. Molykote BR2 Plus gives long intervals between lubrications.
If it is necessary to dismantle the vane motor, check the height and width of the vanes (measurements: see exploded view). The cylinder surface must be smooth and unscratched.
Note: Clean the rotor and cylinder before changing vanes. Apply a thin layer of grease, containing molybdenum disulphide (Molykote BR2 Plus), on to the end faces of rotor or end plates. Assemble the motor dry and check that it is running free. Add two drops of oil through the air inlet and turn the motor over so that oil is distributed over the internal motor parts.

THREADED CONNECTIONS
It is important that the machine's threaded connections are tightened properly. If in accordance with the specifications on the exploded views.
Note: Before assembly, lubricate the threads with grease.

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**GB**

Noise and Vibration Declaration Statement

Sound Pressure Level (dBA) = 75 ± 3 re. PN8NTC1.2 Test code

Vibration Level (m/s²) = <2.5 re ISO 8662/7

These declared values were obtained by laboratory type testing in compliance with the stated standards and are not adequate for use in risk assessments. Values measured in individual work places may be higher than the declared values. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workplace and the workstation design, as well as upon the exposure time and the physical condition of the user.

We, Desoutter, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment In a workplace situation over which we have no control.

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**D**

Geräusch- und Vibrationsangaben

Schallldruck: (dBA) = 75 ± 3 re. PN8NTC1.2 Test code

Vibrationen (m/s²) = <2.5 re. ISO 8662/7


Wir, Desoutter, können nicht für die Konsequenzen verantwortlich gemacht werden, die entstehen können aus der Verwendung der angegebenen anstatt der zu ermittelnden Werte entsprechend der tatsächlichen Belastung gemäß einer Individuellen Risikoabschätzung der Arbeitsumgebung, die wir nicht beeinflussen können.

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**F**

Rapport de déclaration des niveaux de bruit et vibrations

Niveau de Pression Sonore (dBA) = 75 ± 3 re. PN8NTC1.2 Test code

Valeurs de vibration (m/s²) = <2.5 re ISO 8662/7

Ces valeurs sont mesurées par un laboratoire d'essais conformément aux normes en vigueur; en aucun cas elles ne peuvent être utilisées pour l'évaluation des risques. Les valeurs mesurées en travail peuvent être plus élevées que les valeurs déclarées. Les valeurs réelles d'exposition et les dommages physiques résultant de l'exposition aux vibrations sont spécifiques et dépendent de la façon dont l'utilisateur travaille, de la pièce travaillée et de sa forme, ainsi que du temps d'exposition et des capacités physiques de l'utilisateur.

La Société, Desoutter, ne peut être tenue pour responsable des dommages causés par des niveaux réels plus élevés que les niveaux déclarés, n'ayant elle-même aucun contrôle sur l'utilisation des machines.

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**E**

Declaración sobre ruido y vibraciones

Nivel de presión sonora (dBA) = 75 ± 3 re. PN8NTC1.2 Código de ensayo.

Banda de vibraciones (m/s²) = <2.5 re. ISO 8662/7

Estos datos que se declaran se obtuvieron en pruebas de laboratorio de acuerdo con los estándares indicados, y no son apropiados para usar en la evaluación de riesgos. Los valores que se miden en puestos de trabajo individuales pueden ser superiores a los declarados. Los datos reales de exposición y el riesgo de daños que puede sufrir un operario concreto son únicos y dependen de la forma en que el operario trabaja, el diseño de la pieza de trabajo y el puesto, así como el tiempo de exposición y las condiciones físicas del operario.

A nosotros, Desoutter, no se nos puede considerar responsables de las consecuencias de usar los valores declarados, en vez de los valores que reflejen la exposición real, en la evaluación de los riesgos potenciales de un puesto de trabajo sobre el que no tenemos control.

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**P**

Declaración de nivel de ruido e vibrações

Nível de pressão do ruído (dBA) = 75 ± 3 re. Código de ensaio PN8NTC1.2

Alicance de vibração (m/s²) = <2.5 re. ISO 8662/7

Os valores declarados foram testados em laboratório de acordo com os estándares e não estão adequados para o uso de determinados riscos. Medição de valores em local de trabalho individual talvez sejam maiores do que os valores declarados. O valor exposto e o risco de danos por um utilizador é único e depende da sua utilização, peça e local de trabalho, assim como de intempéries e condições físicas do utilizador.

Nós, Desoutter, não poderemos ser responsáveis pelos valores expostos num determinado local de trabalho onde não temos controlo.

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**I**

Dichiarazione dei livelli di rumorosità e vibrazioni

Livello di pressione sonora (dBA) = 75 ± 3 come de PN8NTC1.2

Livello di vibrazioni (m/s²) = <2.5 come ISO 8662/7

I livelli dichiarati sono ottenuti da prove di laboratorio secondo le normative vigenti, ma non possono essere utilizzati come valutazione di rischio. I livelli misurati in differenti ambienti di lavoro possono risultare più elevati rispetto a quelli dichiarati. Gli effettivi livelli di esposizione e di rischio di infortunio sono propri di ogni singolo impiego e dipendono dal modo d'uso da parte dell'operatore, dal tipo di applicazione e dalla postazione di lavoro, così come dal tempo di esposizione e dalle condizioni fisiche dell'operatore.

Noi, Desoutter, non possiamo essere ritenuti responsabili delle conseguenze derivanti dal considerare i livelli dichiarati anziché i reali livelli di esposizione, in singole valutazioni di rischio, nelle situazioni di lavoro di cui non abbiamo alcun controllo.