This machine has been equipped with an EPA certified engine. Additional information can be found in the engine manufacturers notes.

**WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

**Caution**

This engine is an EPA engine.

Adjusting the engine speed will interfere with EPA certification and emissions.

Only authorized personnel can make adjustments to this engine.

Please contact your nearest engine or Wacker Dealer for more information.
Foreword

For your own safety and protection from bodily injuries, carefully read, understand and follow the safety instructions in this manual.

Please operate and maintain your Wacker machine in accordance with the instructions in this manual.

Defective machine parts are to be replaced as soon as possible.

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SAFETY INSTRUCTIONS FOR THE USE OF VIBRATORY PLATES WITH COMBUSTION ENGINES

General instructions

1. Vibratory plates may only be operated by persons who
   * are at least 18 years of age
   * are physically and mentally fit for this job
   * have been instructed in guiding vibratory plates and proved their ability for the job to the employer
   * may be expected to carry out the job they are charged with carefully.
   The persons must be assigned the job of guiding vibratory plates by the employer.

2. Vibratory plates may only be used for compaction jobs. Both the manufacturer’s operator’s manual and these safety instructions have to be observed.

3. The persons charged with the operation of vibratory plates have to be made familiar with the necessary safety measures relating to the machine. In case of extraordinary uses the employer shall give the necessary additional instructions.

4. It is possible that this vibratory plate exceeds the admissible sound level of 89 dB (A). Operators must wear personal hearing protection if the admissible assessment sound level equals or exceeds 89 dB (A).

Operation

1. When starting a diesel engine with a starter crank make sure you have assumed a proper position with respect to the engine and that your hands are placed properly on the crank.
   ☛ ATTENTION! Only use the original engine manufacturer’s safety starting crank.
   To avoid a possible return kick, turn safety starting crank through with full force until the engine starts running.

2. The functioning of operating levers or elements is not to be influenced or rendered ineffective.

3. During operation the operator may not leave the control elements.

4. The operator has to stop the engine of the vibratory plate before going on breaks. The machine has to be placed such that it cannot turn over.

5. Stop engine before filling fuel tank. When refilling fuel tank, do not allow fuel to come into contact with the hot parts of the engine or spill onto the ground.

6. Do not smoke or handle open fire near this machine.

7. The tank lid must fit tightly. Shut off fuel cock, if available when stopping the engine. For long distance transports of machine operated by fuel or fuel - mixtures, the fuel tank has to be drained completely.
   ☛ ATTENTION! Leaky fuel tanks may cause explosions and must therefore be replaced immediately.

8. Do not operate the machine in areas where explosions may occur.

9. Make sure that sufficient fresh air is available when operating vibratory plates with combustion engines in enclosed areas, tunnels, adits and deep trenches.

10. During operation keep your hands, feet and clothes away from the moving parts of the vibration plate. Wear safety shoes, and eye protection glasses in case of trench operation where falling sand stones maybe ejected.

11. When working near the edges of breaks, pits, slopes, trenches and platforms, vibratory plates are to be operated such that there is no danger of their turning over or dropping in.
12. Make sure the soil or subsoil to be compacted has a high enough load carrying capacity.
13. Use appropriate protective clothing while working or while carrying out maintenance work.
14. When traveling backwards the operator has to guide the vibration plate laterally by its guide handle so that he will not be squeezed between the handle and a possible obstacle. Special care is required when working on uneven ground or when compacting coarse material. Make sure of a firm stand when operating the machine under such conditions.
15. Vibratory plates are to be guided such that hand injuries caused by solid objects are avoided.
16. Vibratory plates have to be guided such that their stability is guaranteed.
17. Machines with integrated transport trolley may not be parked or stored on the trolley. This device has only been designed to transport the machine.

Safety checks

1. Vibratory plates may only be operated with all safety devices installed.
2. Before starting operation, the operator has to check that all control and safety devices function properly.
3. Immediately notify your supervisor or superintendent if you have determined defects in the safety devices or other defects which could endanger the safe operation of the machine or which could endanger the environment.
4. In case of defects jeopardizing the operational safety of the vibration plate, the machine has to be stopped immediately.
5. Process materials and operating fuels must be stowed away in receptacles or containers marked according to the respective manufacturers specifications.

Maintenance

1. Only use original spare parts. Modifications to this machine, including the adjustment of the maximum engine speed set by the manufacturer, are subject to the express approval of Wacker. In case of non-observance all liabilities shall be refused.
2. All drive units have to be switched off before carrying out maintenance jobs. Deviations from this are only allowed if the maintenance or jobs require a running engine.
3. When working on vibratory plates equipped with electric starter, disconnect battery before carrying out maintenance or repair jobs on the electric parts of the machine.
4. Remove pressure from hydraulic lines before working on them. Caution: take care when removing hydraulic lines, for the oil may be very hot (up. over 80° C). Precautions are to be taken to prevent oil from splashing into the operator’s eyes.
5. As soon as maintenance and repair jobs have been completed all safety devices have to be reinstalled properly.
6. Do not hose down the machine with water after each use to avoid possible malfunctions. Do not use high pressure washers nor chemical products.

Transport

1. During transport, loading and unloading of vibration plates by means of lifting devices, appropriate slinging means or hooks have to be used on the lifting points provided for this purpose on the vibratory plate.
2. The load-carrying capacity of the loading ramps has to be sufficient and the ramps have to be secure such that they cannot turn over. Make sure that no one be endangered by machines turning over by slipping or by moving machine parts.
3. When being transported on vehicles, precautions have to be taken that vibration plates do not slip or turn over.

Maintenance checks

According to the conditions and frequency of use, vibratory plates have to be checked for safe operation at least once a year by skilled technicians, such as those found at Wacker-service depots and have to be repaired if necessary.

Please also observe the corresponding rules and regulations valid in your country.
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Item no.</th>
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<tr>
<td><strong>Operating weight</strong></td>
<td></td>
</tr>
<tr>
<td>without extension plates</td>
<td>kg:</td>
</tr>
<tr>
<td>with extension plates</td>
<td>kg:</td>
</tr>
<tr>
<td><strong>Power transmission</strong></td>
<td>From the drive engine via gear pump and gear motor onto exciter, from where the centrifugal forces generated transmit directly to the base plate</td>
</tr>
<tr>
<td><strong>Exciter</strong></td>
<td>Fuchs Titan Unic 10W40 MC (SAE 10W40)</td>
</tr>
<tr>
<td>Oil</td>
<td></td>
</tr>
<tr>
<td>Vibrations</td>
<td>$\text{min}^{-1}$ (Hz):</td>
</tr>
<tr>
<td>Centrifugal force</td>
<td>kN:</td>
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<tr>
<td><strong>Travel speed / reverse speed</strong></td>
<td></td>
</tr>
<tr>
<td>without extension plates</td>
<td>m/min:</td>
</tr>
<tr>
<td>with extension plates</td>
<td>m/min:</td>
</tr>
<tr>
<td><strong>Compacted area</strong></td>
<td></td>
</tr>
<tr>
<td>without extension plates</td>
<td>m$^2$/h:</td>
</tr>
<tr>
<td>with extension plates</td>
<td>m$^2$/h:</td>
</tr>
<tr>
<td><strong>Drive motor</strong></td>
<td>Air cooled twin cylinder diesel engine</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>cm$^3$:</td>
</tr>
<tr>
<td>Max. power output (*) at 3000 min$^{-1}$</td>
<td>kW (PS):</td>
</tr>
<tr>
<td>Oil</td>
<td>Fuchs Titan Unic 10W40 MC (SAE 10W40)</td>
</tr>
<tr>
<td>Fuel</td>
<td>Diesel</td>
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<tr>
<td>Fuel consumption</td>
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<td>l:</td>
</tr>
<tr>
<td>Tank capacity (fuel)</td>
<td>l:</td>
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<td><strong>Electrical system</strong></td>
<td>Special Wacker-battery for vibro plates, 12 V - 55 Ah</td>
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<td>Alternator</td>
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<tr>
<td>D.C.</td>
<td>V:</td>
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<td>Relief pressure (forwards/reverse)</td>
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</tr>
<tr>
<td>Motion direction control</td>
<td></td>
</tr>
<tr>
<td>Relief pressure</td>
<td>bar:</td>
</tr>
</tbody>
</table>

(*) In accordance with the installed useful outlet power according to Directive 2000/14/EG.
The sound pressure level at the operators working position, determined according to the EN ISO 11204, is $L_{PA} = 95 \text{ dB}(A)$.

The weighted effective acceleration value, determined according to EN 1033 is $5 \text{ m/s}^2$.

The sound and vibration measurements were carried out and obtained with the machine working on crushed gravel at nominal engine speed.
Field of applications

The DPU 100-70 is optimally suited for all types of soils, including semi-cohesive soils, in trench and surface compaction applications.

Dimensions

Max. admissible inclination
Description of function

The vibration required for compaction is generated via the exciter (6) which is firmly connected to the base plate (5). The exciter (6) has been designed as a centrally mounted exciter with single plane (directional) oscillations. This principle allows for the changing over of the direction of the oscillations by changing the relative position of the eccentric weights (12). Said principle also makes it possible to pass from forward travel to reverse travel motion.

This procedure is hydraulically controlled by way of the operating control handle (7) situated at the upper end of the center pole (8) and an electrically operated disable switch (9), which receives a switch signal from a roll touch switch (10) placed at the center pole head. An oil flow governor valve (15) supplies the steering line with a partial oil flow.

The exciter (6) is driven by an hydraulic motor (14). The oil flow required for the motor (14) comes from the pump (13), which in turn is driven by the drive engine (1). The rpm's of the drive engine (1) can be adjusted by way of the remote throttle lever (16) (normally in the full throttle position).

The upper mass (11) and the base plate (5) are connected to each other by way of 4 vibration damping shock mounts (17). The damping effect reduces to a high degree the vibrations being transmitted from the base plate (5) to the upper mass (11), thereby protecting the engine and simultaneously providing for an easy maneuverability of the machine by the operator.

The twin cylinder drive engine works according to the 4-stroke diesel engine principle, is started electrically by way of a battery (2) and a gear and pinion starter (3), sucks in combustion air through an oil bath air filter with an incorporated cyclone pre-filter (4) and is air-cooled.
Transport to work site

Conditions:
- To transport the vibration plate, only use suitable lifting equipment with a minimum load-bearing capacity of 800 kg.
- Always switch off engine before transporting the machine!
- Only attach suitable tackle at the central lifting point (18) provided. The central lifting point is located exactly above the centre of gravity of the machine. The central lifting point can be displaced rearwards (19), given an application in which the height of the machine is of importance (torque wrench setting = 85 Nm).
- Be sure to tie down the machine at the appropriate points during transportation on transport vehicles.

Note: Also observe the regulations in the “safety instructions”.

Recommendations on compaction

Ground conditions
The max. compaction depth depends on several factors relating to the ground conditions, such as moisture, size grain distribution etc. It is therefore not possible to specify an exact figure for.

Recommendation: In each case determine the maximum compaction depth with compaction tests and soil samples.

Compaction on slopes
The following points are to be observed when compacting on sloped surfaces (slopes, embankments):

* Only approach gradients from the bottom (a gradient which can be easily overcome upwards, can also be compacted downwards without any risk).
* The operator must never stand in the direction of descent (see chapter “safety instructions”).
* The max. gradient of 25° must not be exceeded.

ATTENTION! If the max. gradient were exceeded, this would result in a failure of the engine lubrication system and thus inevitably lead to a breakdown of important engine components.
Starting

Conditions:

Oil: Check oil level on oil dipstick (21), if necessary top up with Fuchs Titan Unic 10W40 MC using the filler nozzle (22).
Fuel: Maintain absolute cleanliness when filling diesel fuel into the fuel filler neck (23). Impurities in the fuel can cause breakdowns in the injection system and premature clogging of the fuel filter.
Air filter: Clean cyclone and air filter when in the presence of a lot of dust.

Start the engine once the above conditions have been complied:
1. Set throttle lever (16) to full throttle position.
2. Push down press button switch to start position.
3. Turn the ignition key to position „I“ and press starter button until engine starts running.
4. Move throttle lever (16) back to idle position and let engine warm up for approximately ca. 7 minutes.

Forward and reverse motion

1. Push throttle control lever (16) to full rpm’s position.
2. The vibration is connected by pulling the press button switch out of the start position.
3. The travel direction is defined by way of the operating control handle (7) with an analogous movement.
4. The travel speed can be selected and varied as required.
5. The vibratory plate will automatically travel forwards (away from the operator) if the operating control handle (7) is released (dead man’s handle).
Switching off

1. Push down press button switch from vibration position to stop position. The control lamp will extinguish.
2. Move throttle lever (16) all the way to the stop position.
3. Turn the ignition key to the stop position and pull off once engine has stopped turning. The control lamp will turn off.

Compaction without extension plates

If the vibration plates is used without extension plates, screw set of protective screws (8 pes) No. 0067520 into the threaded boreholes situated in the lower mass, in order to avoid threads from being damaged.

Starting with external battery etc.

Observe the following connection sequence when using an external battery to start the engine:
1. Connect one end of jumper cable to positive terminal of auxiliary battery.
2. Connect the other end of jumper cable to positive terminal of the defective vibro plate battery.
3. Now connect jumper cable clamp to negative terminal of the auxiliary battery.
4. Connect other end of jumper cable to the upper mass of the vibratory plate, e.g. to the motor fixing screws.
   The connection point should be as far away as possible from the battery of the vibratory plate.
   Disconnect jumper cable in reverse order.

ATTENTION!
Only 12 V batteries may be used. The use of e.g. a 24 V truck battery will lead to an explosion of the vibro plate battery!

Additional notes on starting at very low temperatures!

ATTENTION!
Never use starting sprays or similar - they are forbidden because they are dangerous.
## Maintenance schedule

Check all external screw connections for a tight fit approx. 8 hours after first operation.

<table>
<thead>
<tr>
<th>Component</th>
<th>Maintenance work</th>
<th>Maintenance interval</th>
</tr>
</thead>
</table>
| Air filter                              | Check cyclone and oil bath air filter - change oil and clean cyclone if necessary.  
                                            | Check oil level, if nec. top up oil.                                                | daily                         |
| Drive engine                            | First oil change.                                                                | 25 hours                      |
| Centre pole height setting, transport   | Regrease.                                                                        | weekly                        |
| Protective frame, central lifting point  | Check attachment screws for tight fit.                                          | monthly                       |
| Hydraulics                              | Check oil level, top up if necessary.                                            |                               |
| Exciter                                 | Oil change.                                                                      | every 250 h, or latest every   |
| Drive engine                            | Oil change, change oil filter.                                                   | 6 months                      |
| Battery                                 | Keep cooling fins free of dirt, clean dry.                                      |                               |
| Battery                                 | Retighten all accessible screw connections.                                     |                               |
| Valve clearance                         | Check acid level, if nec. top up with distilled water.                           |                               |
| Hydraulic system                        | Check, set to 0,1 mm when engine is cold.                                       |                               |
| Hydraulic system                        | First oil change.                                                                | 500 hours                     |
| Fuel filter                             | Change filter.                                                                   | every 500 h                   |
| Hydraulic fluid filter                  |                                                                                  |                               |
| Hydraulic system                        | Oil change.                                                                      | every 1000 h                  |
Oil bath air cleaner

Examination of dirt accumulation within the transparent preliminary filter (cyclone); Remove clamp if cleaning is necessary, then off the cyclone and tap clean.

Control and oil quantities:

The air cleaner cover must be removed to check the oil level. Open both clamps for this purpose. The necessary oil quantities have been defined by the engine manufacturer (0.3 liters 10W40), but are not always easy to duplicate if an appropriate graduated measuring cup is not available. The cover of the oil bath filter has been provided with a punched oil level marking for this reason. Easier yet for practical purposes, though, is the determination of the oil quantity with the help of the perforations in the cover's integrated ring.

The oil quantities have been defined as follows:
- Minimum - Oil up to lower edge of boring
- Standard - Oil up to upper edge of boring
- Maximum - Oil up to upper edge of ring

Attention: Do not fill oil above maximum mark under any circumstances.

Note: Pay attention when assembling the cover that the gasket (a) and the leathering (b) of the filter's insert are available and in the right position.
Engine oil

Check oil level:

Check oil level on oil dipstick (21). If the oil level is too low, top up with oil Fuchs Titan Unic 10W40 MC though the filler nozzle (22).

Changing the oil:

1. Let engine warm up.
2. Loosen screw (25) at the engine/clamp.
3. Guide hose outwards through the large opening in the protective frame.
4. Fully unscrew drainage screw (24) and fill used oil into an appropriate container.
5. Screw in drain plug (24) and install hose back onto engine.
6. Fill engine through filler neck (22) with 2.5 liters of Fuchs Titan Unic 10W40 MC oil.

Battery

Check acid level:

1. Open right maintenance cover.
2. Check acid level and top up with distilled water if necessary.
3. Close maintenance cover again.

ATTENTION! Be sure to check if the positive pole cover is in the correct position before closing the maintenance cover.

Note: Only replace a defective battery with an original Wacker battery. Conventional batteries are not designed to withstand the high vibration load.

4. When changing the battery pay close attention to the following:
   - **Removal:** first disconnect the negative, then the positive pole.
   - **Assembly:** first connect the positive, then the negative pole.

See chapter on “Emergency start” for external start.
Hydraulic control

Check oil level:
1. Screw out screwed sealing plug (27).
2. The oil level must be 7,5 cm under the upper end of the screwed filler opening. Top up with oil (Fuchs Renolin MR 520) if necessary.
3. Screw screwed sealing plug (27) back in.

Bleeding the hydraulic system:

Bleeding the hydraulic system will be required after repair/maintenance jobs of the hydraulic circuit for forwards and reverse travel have taken place.

Exciter

Check oil level:
1. Position vibration plate horizontally.
2. Open filler bore (29).
3. The oil level must reach the start of the thread of the filler bore (29).
4. If necessary, pour in Fuchs Titan Unic 10W40 MC oil through filler bore (29) (use funnel).
5. Close filler bore (29). (Tightening torque 100 Nm)

Changing the oil:
1. Remove extension plate if necessary.
2. Open filler bore (29).
3. Tilt vibration plate and keep it tilted until the oil has run out.
4. Place vibration plate in horizontal position.
5. Pour in 1,5 l Fuchs Titan Unic 10W40 MC oil through the filler bore (29).
6. Close filler bore (29). (Tightening torque 100 Nm)
7. Install back extension plate if necessary.

☛ ATTENTION! Do not pour in too much oil!
Forward or reverse travel too low

**Cause:**
- Air in the hydraulic circuit to the exciter.
- Relief pressure forwards/backwards too low.
- Exciter rpm's too low.

**Remedy:**
- Fill circuit with hydraulic oil while simultaneously bleeding air at the exciter’s control cover.
- Set pressure relief valve correctly (only Wacker personnel).
- Adjust engine speed and check pressure valve (only Wacker personnel).

Loss of hydraulic oil

**Cause:**
- Leaks, hydraulic hose defective.

**Remedy:**
- Change defective parts.

**Note:** Bleed system after every dismantling operation.

Oil pressure control lamp does not go off

**Cause:**
- Low engine oil level.
- Plugged up oil filter.

**Remedy:**
- Top up with oil following markings on dip stick.
- Clean or replace oil filter.

Battery-charge warning lamp does not go off

**Cause:**
- Dynamo defective.
- Control unit defective.

**Remedy:**
- Contact Wacker service dept.
- Replace control unit (on rear of the dynamo).

Engine starts with difficulty

**Cause:**
- Button switch at control panel is not set to start position.
- Throttle lever is not in full rpm's position.

**Remedy:**
- Set button switch to start position.
- Move throttle lever towards machine into full throttle position.

Engine does not start

**Cause:**
- Ignition lock defective.
- Starter defective.
- Starter button defective.
- Battery flat.
- Vibration connected.

**Remedy:**
- Change defective parts.
- Charge battery.
- Disconnect vibration.
1) Gear pump
2) Advance/reverse control
3) Exciter drive
4) Block-hydraulic
EC - CONFORMITY-CERTIFICATE

Wacker Construction Equipment AG, Preußenstraße 41, 80809 München

hereby certify that the construction equipment specified hereunder:

1. Category: Vibratory plate
2. Type: DPU 100-70
3. Equipment item number: 0008900 ...
4. absolute installed power: 14,4 kW

has been evaluated in conformity with Directive 2000/14/EC:

<table>
<thead>
<tr>
<th>Conformity assessment procedure</th>
<th>At the following notified body</th>
<th>Measured sound power level</th>
<th>Guaranteed sound power level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annex VIII</td>
<td>VDE Prüf- und Zertifizierungsinstitut Zertifizierungsstelle Merianstraße 28 63069 Offenbach/Main</td>
<td>109 dB(A)</td>
<td>109 dB(A)</td>
</tr>
</tbody>
</table>

and has been manufactured in accordance with the following directives:

2000/14/EG
EMV - Richtlinie 89/336/EG
98/37/EG
EN 500-1
EN 500-4

Dr. Sick
Board of Directors

File certificate carefully
CERTIFICATE

Registration Number 6236/QM/06.97

This is to certify that the company

WACKER

Wacker Construction Equipment AG
Wacker-Werke GmbH & Co. KG

with the locations

Head Office Munich
Preussenstr. 41
80809 München

Production plant Reichertshofen
Karlsfeld logistics centre
Sales regions with all branches all over Germany

has implemented and maintains a
Quality System for the following scope

Machine manufacture
Construction machines

This Q System complies with the requirements of

DIN EN ISO 9001:2000

This Certificate is valid until 05.06.2006

VDE Testing and Certification Institute
Certification

D-63069 Offenbach/Main, Merianstraße 28
Date 02.06.2003

The VDE Testing and Certification Institute is accredited by DARAccreditation Bodies according to DIN EN 45012 and notified in the EU under ID. No. 0366.