



Installation instructions

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Thank you for buying the Nibotechnics Neptune.

Symbols used adjacent to the text in these instructions:



Danger Means: electrical hazard warning, failure to understand and obey this warning may result in electrical shock.



Warning Means: failure to understand and obey this warning may result in injury to you or to others.



Caution Means: failure to follow these instructions may cause damage to all or parts of the system or equipment



Note Means: this is important information for the correct use of this system or equipment

1. Parts referred to in these instructions

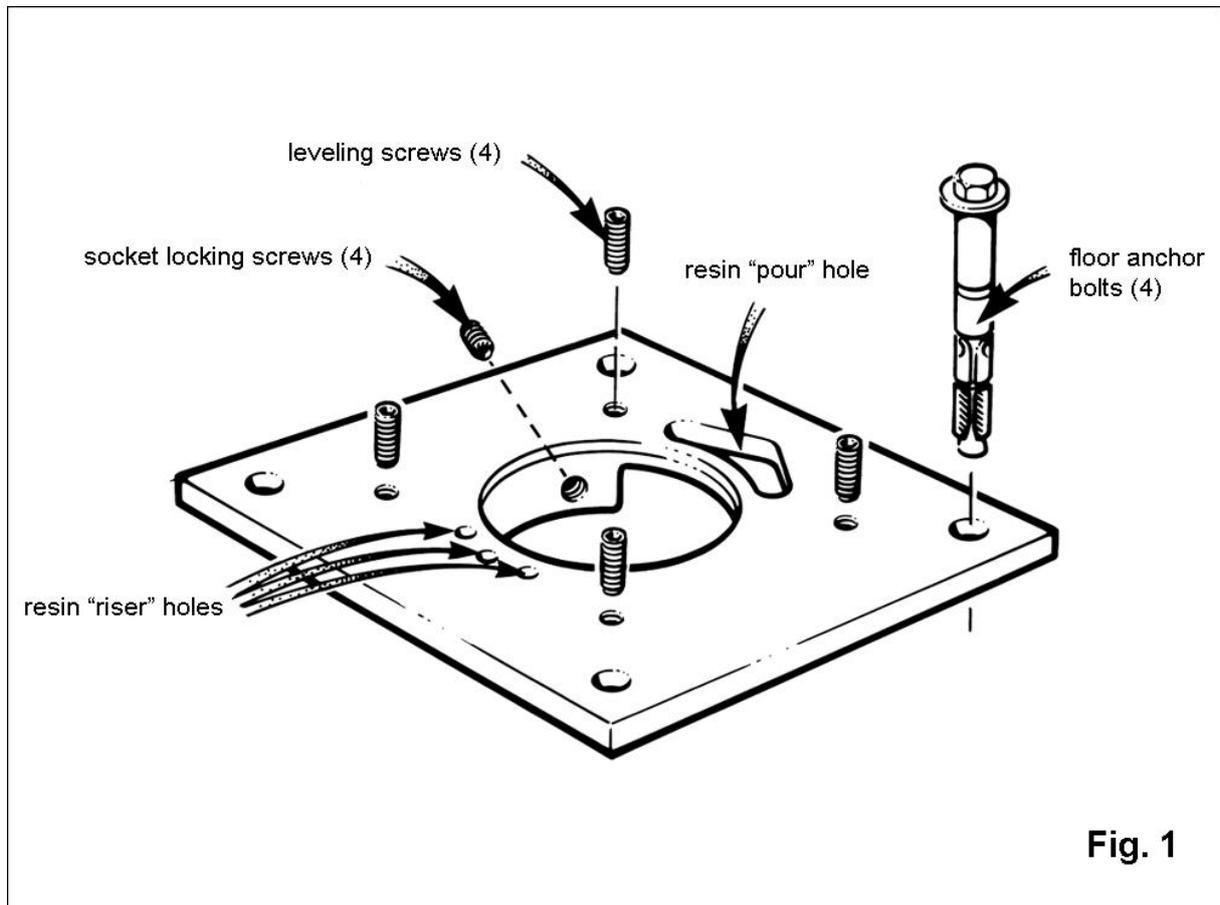
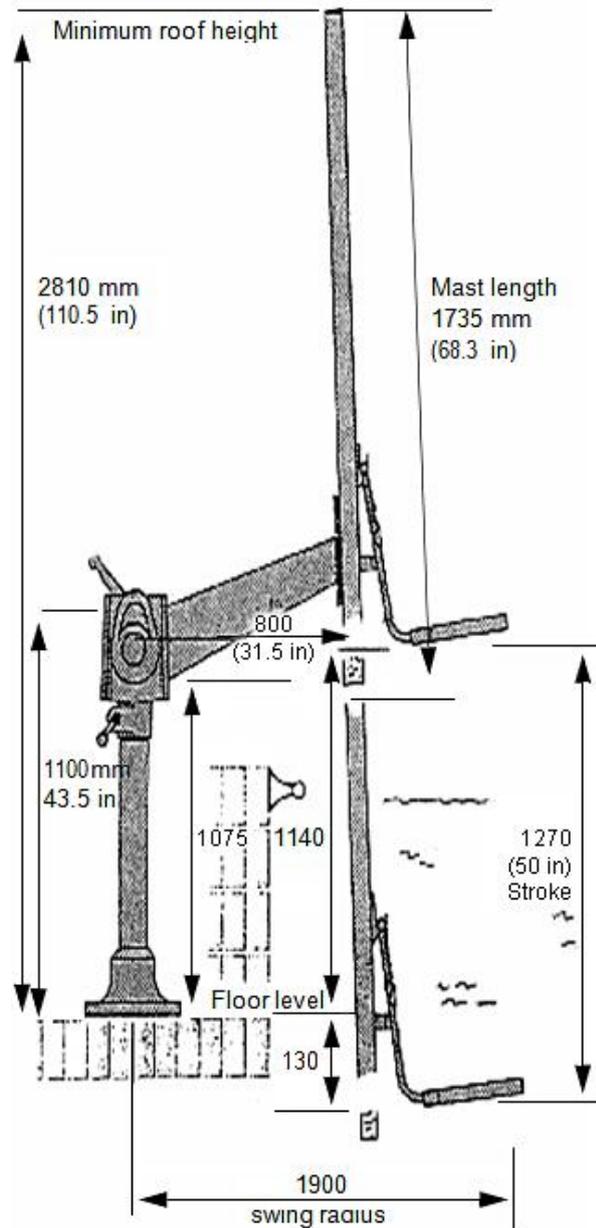


Fig. 1

2. Introduction

GENERAL MEASUREMENTS

Raised pools and therapy tanks Boom position A



Space requirements
with standard boom (800 mm)

Radius of swing with chair unit	1500 mm (59 in)
Radius of swing with stretcher	1900 mm (75 in)
Radius of swing with chair and legrest	2000 mm (79 in)

Difference between underside of stretcher and end of mast.

Alternative boom lengths: 1 metre (add 320 mm / 12" to swing radius)
 1,2 metre (add 520 mm / 21" to swing radius)



Important: Before attempting to install the 'Neptune', read and thoroughly understand these Installation Instructions.



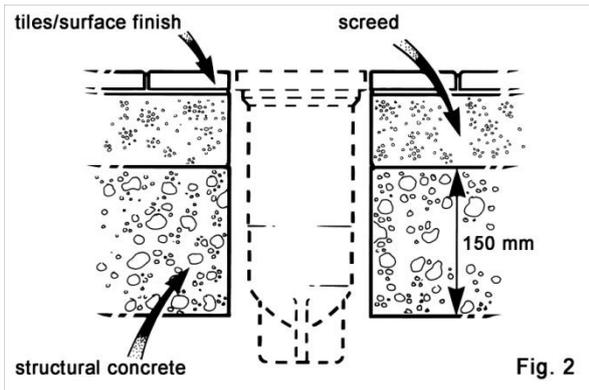
Do not install a Neptune flanged socket if the structural concrete (laid to the recommended specification) is less than 150 mm (6") thick (see Fig. 2).



If you are in any doubt as to the suitability of the site conditions, then contact Nibotechnics nv or their authorized distributor for advice prior to installation.



Wear suitable eye, ear, respiratory and hand protection when drilling, chiseling and handling resin substances and filler materials.



Some information contained in these instructions may become outdated, due to improvements made to this product in the future. If you have any questions regarding these instructions or your hoist, please contact your approved distributor.

Nibotechnics nv policy is one of continuous development, and therefore reserve the right to change specifications without notice.

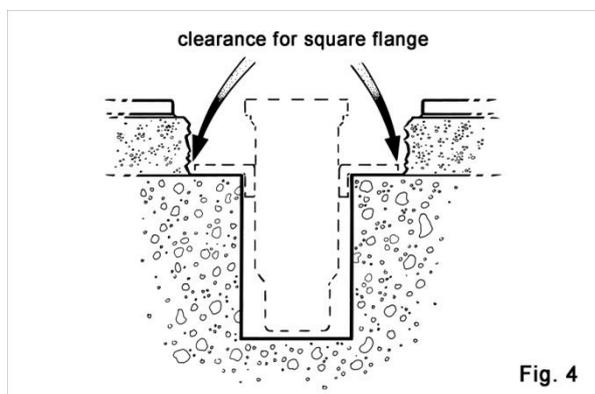
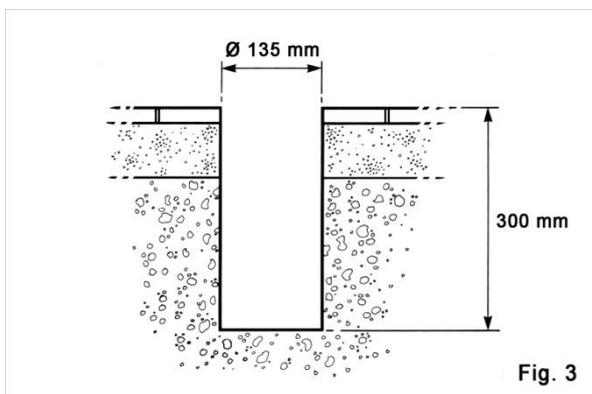
3. Installing your Neptune

Determine the position of the flanged socket with reference to the Nibotechnics assessment drawing. Small adjustments may be necessary to accommodate tile joints and avoid unnecessary damage to the floor.

Check visually, discuss with Pool Manager and scan floor with metal detector in order to detect any under floor services.

Set up a suitable drilling machine and drill a hole 135 mm diameter by 300 mm deep and exact debris (see Fig. 3).

Remove the tiles as required, by first grinding out the joints, then carefully lifting with a chisel. The number of tiles removed should allow a clearance fit for the square flange (see Fig. 4).



Chisel through the screed to the solid concrete and remove the debris.

Slide the square flange over the socket with the locking segments pointing downwards (see Fig. 5).

Measure the distance at the center point of the socket, from the pool deck level to the top of the concrete (dimension "X" - see Fig. 6), and temporarily lock the flange onto the socket at that dimension, using the four locking screws (see Figs. 1 and 8).

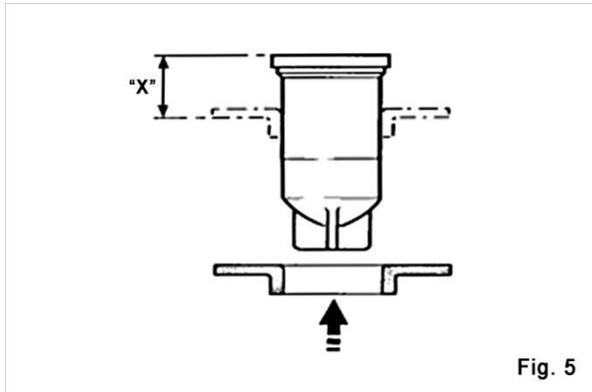


Fig. 5

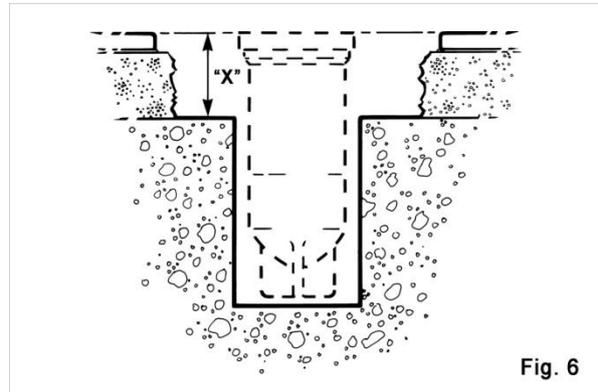


Fig. 6

- **Note:** Measure at the center to ensure a "mean" dimension, especially if the pool side slopes (see Fig. 7).

Position the socket/flange in the hole and check that the top of the socket is at deck level (at center - dimension "X").

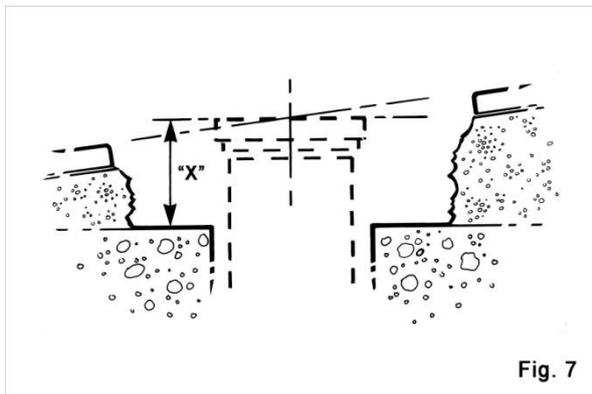


Fig. 7

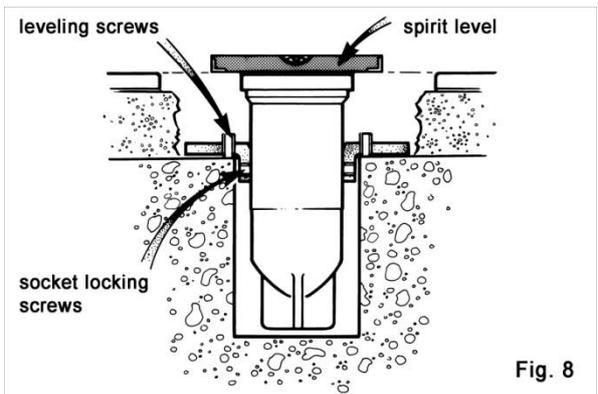


Fig. 8

Using a spirit level on the top of the socket, ensure that the socket is vertical in the hole (see Fig. 8). Adjust if necessary, using the four leveling screws in the flange plate (see Figs. 1 and 8). Check again that the dimension "X" has not altered. If it is correct, remove the socket/flange assembly. Finally, tighten the four locking screws (see Fig 1) onto the flange.

Reposition the socket/ flange assembly and mark the concrete through the four anchoring holes in the flange.

Remove the socket/flange assembly again, drill the four holes 18 mm ($\frac{11}{16}$ ") diameter x 115 mm ($4\frac{1}{2}$ ") deep and remove the dust.

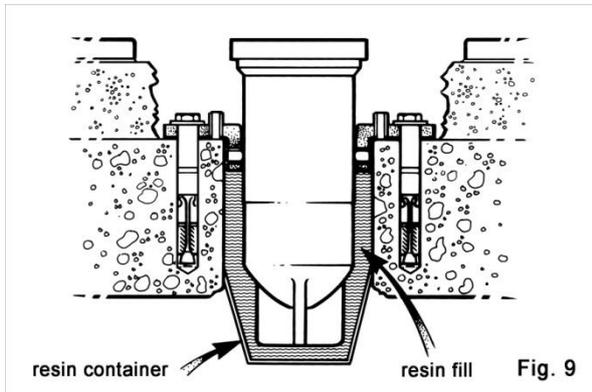
Reposition the socket assembly and push the four anchor bolts through the plate, down into the holes in the concrete.

With the plate now repositioned and level, tighten the four anchor bolts to a torque of 40Nm (30lbs/ft).

Mix a sufficient quantity of resin (FOSROC S40 - 2 Part [or equivalent]), reading the instructions first, and pour it carefully through the large hole in the flange. Keep pouring until the resin rises through the 3 "riser" holes.

- **Note:** The resin will "set" fairly quickly (approx. 1 hour at 20°C), so ensure that the flange is not moved while this is in process.

- **Note:** If the 135 mm (5⁵/₁₆") diameter cutter has broken through the concrete flooring, a resin retainer will have to be used. For this function, wedge or tape a suitable container around the protruding socket before commencing the resin pour (see Fig. 9).



When the resin has set hard (approximately 1 hour), make up the surface with a sand/cement screed and replace the tiles as appropriate.

Fill in any other areas using cement specification "Bal Rapid Set" (or equivalent), and level off to the surrounding area.

Apply a light covering of silicone grease to the bore of the flanged socket. Then position the cover plate (supplied) and screw it down with the three screws provided.

Do not use the Neptune for 24 hours after installation, to ensure that the resin and cement has cured sufficiently.

We strongly advise and warn that only Company Designated Parts, which are designed for the purpose, should be used on equipment and other appliances supplied by the Company, to avoid injuries attributable to the use of inadequate parts.

The Company's Conditions of sale make specific provision confirming no liability in such circumstances.

Our policy is one of continuous development, and we therefore reserve the right to change specifications without notice.

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