

OILWIND

**FULLY AUTOMATIC
ELECTRIC
JIGGING REEL**

TYPE: 03-16



USER`S MANUAL

Sellers Guaranty:

Guaranty:

The guaranty covers the Electric Computerised Jigging Machine OILWIND type 03-16. The Seller will provide a 24 months guarantee from date of purchase (stated below), covering the product's mechanical functions, as described in this Users Manual.

Condition:

Guarantee work, during the guarantee period, must only be carried out by the Seller's own service specialists, or by a service specialist appointed by the Seller. For parts, repaired or replaced, during the guarantee period, the Seller provides the same guarantee as above.

It is the Owner's responsibility to cover the transport costs, if any.

The Seller takes no responsibility, if the product is damaged or faulty due to transport, handling, lack of regular maintenance, wrong installation and/or connecting or if the Owner has made any alternations or changes of the original product, or has been using the product to any purpose, apart from jig fishery.

The Seller can neither accept any responsibility for any damage or fault caused by bad weather or any other nature reason.

It is the Buyers responsibility to maintain the product and to repair and replace parts to the operational wear and tear.

The Sellers responsibility starts from: _____

Date, signature and stamp

TYPE: _____

SERIAL NO.: _____

PART NO.: _____

YEAR: _____

KEYPAD NO.: _____

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Summary of the Operation

The Jigging Machine is electrically driven and the fishing functions are computer controlled.

The operation of the machine is simple:

Switch-on the machine, press the  (DOWN) button. The line pays out until the sinker reach the bottom, and the Machine starts fishing.

The Machine is programmed with all fishing functions pre-set, ready to start fishing (please see instruction regarding adjusting the weight, page 14).

Above mentioned standard program is for bottom fishing. Fig. 10 on page 25 shows the nature of this fishery.

The standard program can be adjusted to your requirements. Adjustments can be saved for future use as your own program, but you can always return to the original standard program.

The computer is inside the box on top of the machine. On the computer box is the keypad with:

Display, showing the computers different values, adjustments and information to the user

Also there are 10 buttons for adjusting and controlling the machine, and a whistle giving information to the user by sounds.

Before starting, winding new line onto the reel:

After winding the main line onto the reel, fasten a nylon ring on the end. The hook set-up will be fastened to the same nylon ring. The ring will act as a "stopper" when it hits the roller on the end of the arm (see Fig.1). When the main line is on the reel and the "stopper" has hit the roller, "clear" the machine, by pressing the **CL** (CLEAR) button for 5 seconds (there will appear a long sound).

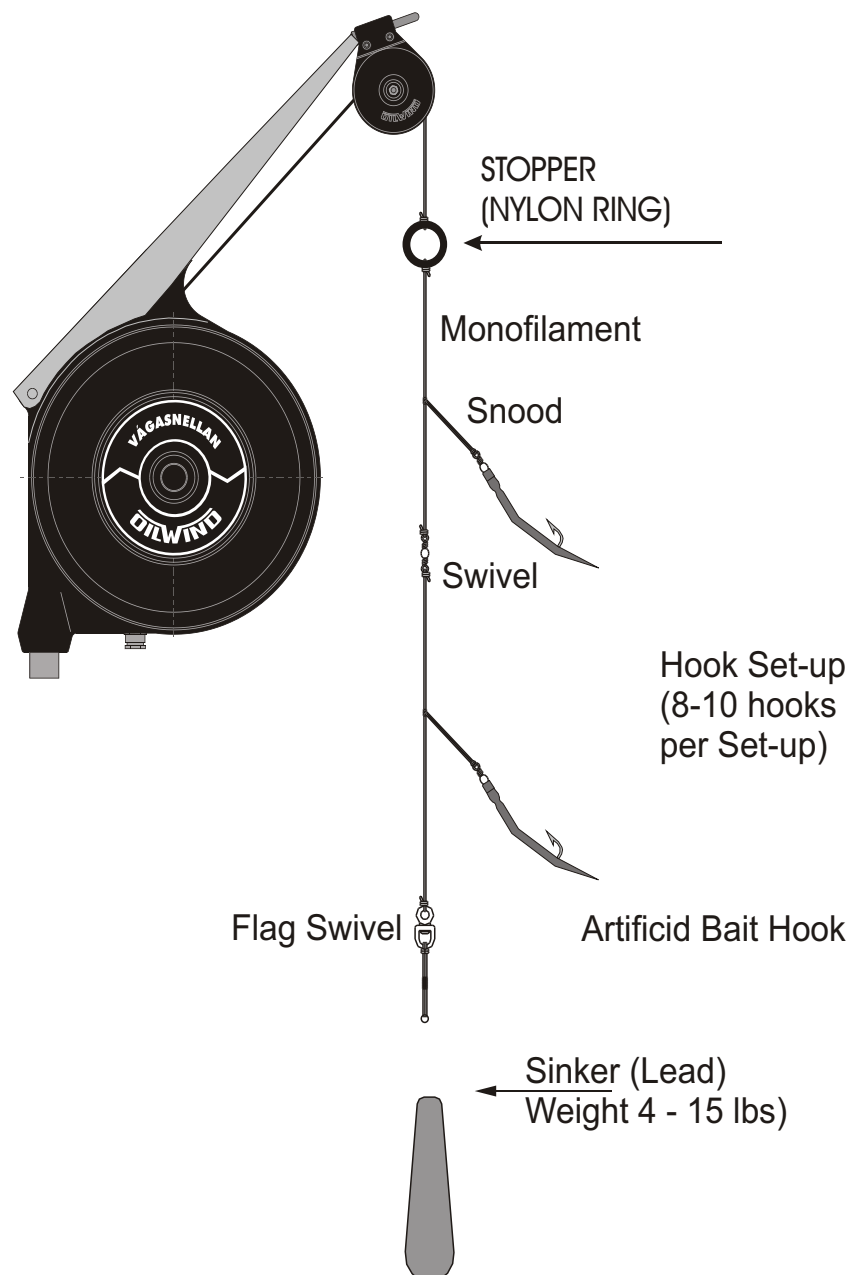


Fig. 1

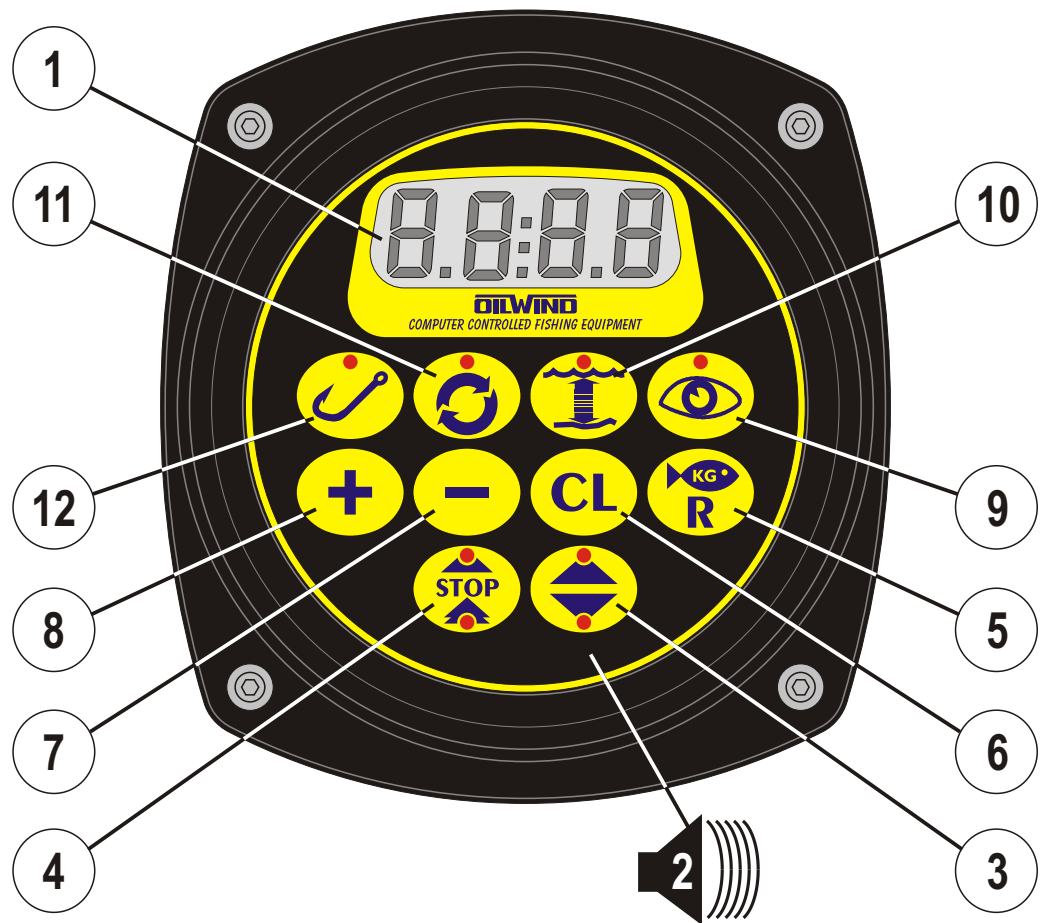
THE COMPUTER:

Fig. 2

1. DISPLAY
2. WHISTLE
3. DOWN
4. STOP - UP - DOWN
5. WEIGHT / DEPTH
6. CLEAR
7. MINUS
8. PLUS
9. SEARCH
10. ADJUST DEPTH
11. ADJUST MOTOR FUNCTIONS
12. ADJUST JIGGING FUNCTIONS

DESCRIPTION OF THE FUNCTIONS:

1. DISPLAY



The display shows the following:

The Depth (how many fathoms of line paid out), as well as the value of the function you have selected.

In addition it shows the following special events:

· (colon) When in searching mode.

F (and depth) When hauling with fish on the hook

R (and depth) When fouled and hauling

L (and depth) When hauling for drift compensation.
It will haul the fishing line up and stops for checking the gear.

2. WHISTLE



The Whistle will sound:

3 long sounds when fish has taken the hook or touched it.

3 short sounds when the gear is 5 fathoms from the gunwale.

1 long sound when the **CL** (CLEAR) button is pressed for 5 seconds, and the machine return to the standard program.

3. DOWN



When the  (DOWN) button is pressed the line is payed out. In this button there are two lights, one is lighting when the line is payed out, and the other when the line is hauled in.

4. STOP - UP - DOWN



This key has got three functions:

- 1) The first time you press the button  (STOP - UP - DOWN), the wheel will stop.
- 2) The second time you press the button  (STOP - UP - DOWN), the machin will haul the line up (using Speed 2)
- 3) The third time you press the button  (STOP - UP - DOWN), the machine will pay the line out (using Speed 2)

This button has no direct connection with the program, and its function gives you the ability to operate the machine manually. You do have the opportunity to stop and start the wheel, independent of the computer program.

The  (STOP - UP - DOWN) button switches off the fishing program.

To return to the fishing program, press the  (DOWN) button.

5. WEIGHT / DEPHT



This key has got two functions:

- 1) Keep the  (WEIGHT / DEPTH) button pressed during fishing operation, and the display shows the weight on the line.
- 2) When you have adjusted motor- and jig functions, the display will show the Depth again by pressing  (WEIGHT / DEPTH) once.

6. CLEAR



This button has got two functions, to be used during "Adjust Motor" and "Adjust Jig":

- 1) Press the button  (CLEAR) once - **the actual value** of the individual function adjusted, returns to the value in the standard programme.
- 2) Keep the button  (CLEAR) pressed for five seconds (the whistle will give 1 long sound) - **all functions** will return to the values in the standard programme.

Apart from the above mentioned functions, the button is used to Clear the ADJUST DEPTH () function (please see Adjust Depth on page 10).

7. MINUS



Press the button to reduce the value you want to adjust.

8. PLUS



Press the button to increase the value you want to adjust.

9. SEARCH



The Search function has got the following two options:

1) Searching for fish from the bottom:

Press the  (SEARCH) button (the light starts flashing) and then press the  (DOWN).

The display shows a . (colon), and the  (SEARCH) button lights. The Machine will start to search for fish from the bottom and upwards. The Search mode operates per the current jig numbers and jig travel values and will move the line upwards until it has reached the value adjusted as "Search Range". Then the machine will pay-out the line to the bottom, and repeat the searching (please see further instructions in "Jig Functions", 7. "Search Range"). In the Standard Program the value of the Search Range" is 40, the machine will search up to 40 fathoms from the bottom or the starting point of search. This can be adjusted as to your own requirements.

To stop searching, just press the  (SEARCH) button and then the

 (DOWN).

2) Searching for fish from a pre-set depth:

Press the  (ADJUST DEPTH) button (the light start flashing), and then adjust your depth by using the  (PLUS) or  (MINUS) buttons, Then press the  (SEARCH) button followed by the  (DOWN) button, and the machine will pay-out the line to the pre-set depth and starts searching (from adjusted depth to adjusted Search Range).

To stop searching, just press the buttons as follows:  (ADJUST DEPTH),  (CLEAR),  (SEARCH), and  (DOWN).

10. ADJUST DEPTH

This button has got two functions:



1) The machine can be adjusted to fish at a certain depth.

Press the  (ADJUST DEPTH) button and adjust the preferred depth with the  (PLUS) or  (MINUS) button. Press the  (DOWN) button and the machine starts fishing at the pre-set depth (the buttons light is on as the machine is fishing at the pre-set depth).

To stop fishing from the pre-set depth, just press the buttons as follows:  (ADJUST DEPTH),  (CLEAR) and  (DOWN).

2) The machine can find the depth where the last fish was caught.

If the machine has caught a fish midwater, the machine will register the depth, and you can start fishing at this depth by:

Press the  (ADJUST DEPTH) button (the light will start flashing) and the display will show the depth where the last fish was caught.

Then press the  (DOWN) button, and the machine will pay out the line to the depth where the latest fish was caught, and start fishing (the button light is on).

To stop fishing from the pre-set depth, just press the buttons as follows:  (ADJUST DEPTH),  (CLEAR) and  (DOWN).

THE (ADJUST MOTOR) AND (ADJUST JIG) MODES DO HAVE SEVERAL SUB-FUNCTIONS.

The functions are listed on top of the machine (fig. 3) with a number and name for the different sub-functions for  (ADJUST MOTOR) and  (ADJUST JIG). To select a function, press the button as many times as necessary to reach the desired function.

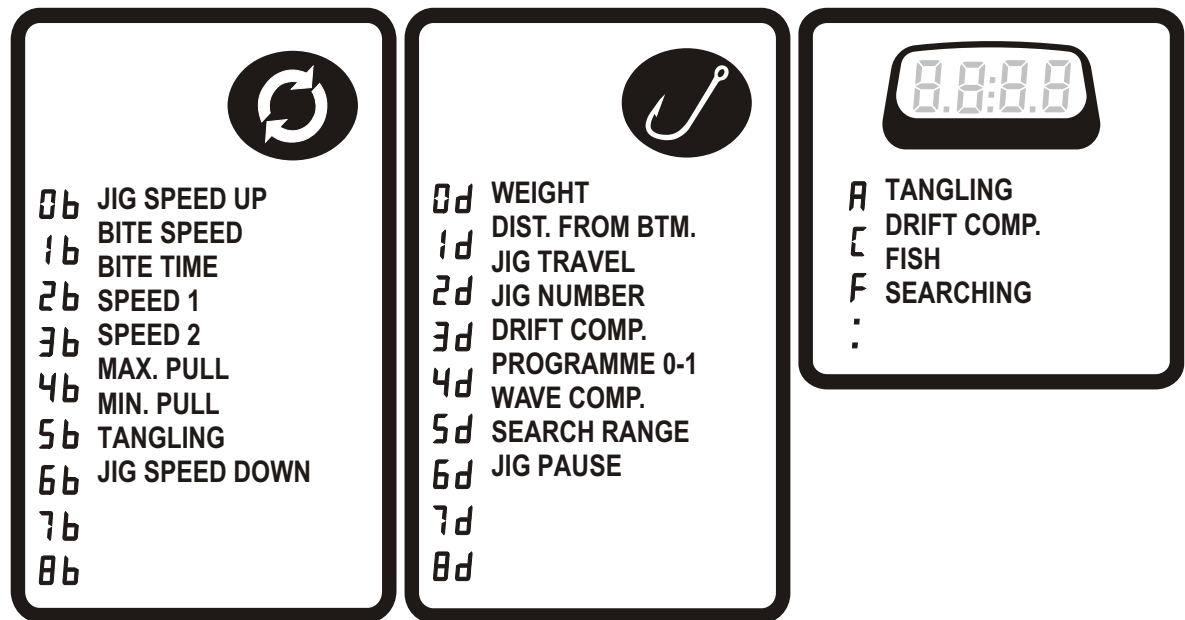


Fig. 3

The value of the functions can then be adjusted by the  (PLUS),

 (MINUS) or  (CLEAR) buttons.

When the ADJUST MOTOR or ADJUST Jig modes are activated, the button light is on and while the adjustments are made, the light will flash.

11. ADJUST MOTOR:

Adjusting the MOTOR functions:



Examples of adjusting **0b** JIG SPEED

Press the  (ADJUST MOTOR) button. Press as many times as necessary to get the display to show **0b** and a value (the button light is on). Adjust the value with the  (PLUS),  (MINUS) or  (CLEAR) button (the light starts flashing). To get the adjustment accepted, press again the  (ADJUST MOTOR). The light stops flashing.

To activate the new program press the  (DOWN) button.

By pressing the  (WEIGHT - DEPTH) button, the display shows the depth again (the  (ADJUST MOTOR) button light is off).

0: JIG SPEED UP

The display shows: **0b** and a figure.

This figure shows the adjusted Jig Speed when the line is hauled (when in jiggling mode). The figure is the percentage of the maximum possible Jig Speed.

1: BITE SPEED

The display shows: **1b** and a figure.

This figure shows the adjusted Bite Speed. The Bite Speed is the hauling speed the first moment after a fish is caught. Bite Speed is used during the Bite Time. The figure is the percentage of the maximum possible Bite Speed.

2: BITE TIME

The display shows: **2b** and a figure.

This figure shows the adjusted Bite Time. The Bite Time is the period the Bite Speed shall last. The value is in seconds.

3: SPEED 1

The display shows: **3b** and a figure.

This figure shows the adjusted Speed 1, or revolutions per minute. The Speed 1 is the hauling speed after the Bite Time. The figure is the percentage of the maximum possible speed the machine will be hauling at. The value is the percentage of the maximum possible revolutions per minute..

4: SPEED 2

The display shows: **4b** and a figure.

This figure is the programmed speed 2, it is revolutions per minute (rpm). Speed 2 is used when activating the  (STOP-UP-DOWN) button. The figure is a percentage of maximum rpm.

5: MAXIMUM PULLING POWER.

The display shows: **5b** and a figure.

This figure is the percentage of maximum possible pulling power the machine is pulling at, when pulling with maximum force.

6: MINIMUM PULLING POWER.

The display shows: **6b** and a figure.

This figure is the percentage of maximum possible pulling power the machine is pulling at, when pulling with minimum force.

When the machine is sensing the first bite, it starts pulling at Minimum Pulling Power. As the machine is sensing additional bites, it will auto-matically increase the Pulling Power and adjust the speed. This results in a minimising of power consumption, and the pull and speed will increase until the machine has reached the programmed values for MAXIMUM PULLING POWER and SPEED 1.

7: TANGLING

The display shows: **7b** and a figure.

This function is used to adjust the machine's sensitivity for registration of tangling of the fishing gear. The pre-set value is 4,5. A lower value means more sensitive and a higher value the opposite. This value is not required to be adjusted under normal conditions.

8: JIG SPEED DOWN

The display shows: **8b** and a figure.

This figure shows the adjusted Jig Speed when the line is payed out (when in jigging mode). The figure is the percentage of the maximum possible Jig Speed.

12. ADJUST JIGGING FUNCTIONS



Adjusting the JIG functions:

Examples of adjusting **0d** WEIGHT

Press the  (ADJUST JIG) button. Press as many times as necessary to get the display to show **0d and a value** (the button light is on). Adjust the value with the  (PLUS),  (MINUS) or  (CLEAR) button (the button light will start flashing). To get the adjustment accepted, press again the  (ADJUST JIG) The button light will stop flashing.

By pressing the  (WEIGHT - DEPTH) button, the display shows the depth again (the  (ADJUST JIG) button light is off).

0: WEIGHT

The displays shows: **0d and a figure.**

This figure is the limit (weight) to cross, for the mode to sense a bite and start reel in the line.

Guidance to adjust the weight.

Adjusting the limit (weight) is essential for the way the machine is sensing fish - a low value means a more sensitive registration (smaller weight of fish will be registered) and a high value means a less sensitive registration (larger weight of fish will be registered).

Adjusting the limit (weight) is also essential for compensation of the weight of the gear (line, hooks, sinker), as the weight of the gear will vary depending of depth and weather conditions.

Guidance to adjust for gear compensation.

The line and gear has to be in the water without fish on the hooks, then press the  (WEIGHT - DEPTH) button. The display shows then the weight of the line and gear.

Then adjust the limit (weight) **0d** (see above), based on the weight of the line and gear. The weight shall be adjusted to a weight higher than the weight of the line and gear, depending on how sensitive you choose the machine to be.

1: HEIGHT FROM BOTTOM

The display shows: **1d** and a figure.

This figure is the distance from the bottom (in fathoms) the machine will haul the gear before commence jigging.

2: JIG TRAVEL

The display shows: **2d** and a figure.

This value is the jig travel in fathoms.

3: JIG NUMBER

The display shows: **3d** and a figure.

This figure is the number of times the reel jig before searching for the bottom again.

4: DRIFT COMPENSATION

The display shows: **4d** and a figure

Depending on tide and weather conditions, the line can angle away from the fishing boat. This can affect the efficiency of the fishing. To compensate for this, the machine has the function DRIFT COMPENSATION. The figure indicates the number of jigs before the machine is hauling the gear to the gunwale. To be adjusted to the weather conditions. Use a lower value in bad weather and current conditions. This function also is for controlling the gear, and if there should be fish on the hooks, not registered by the machine.

5: PROGRAMME 0-1

The display shows: **5d** and a figure.

This figure can adjusted as 0 or 1.

If the figure is adjusted to 0 (standard), the machine will operate as described before as to the standard program. If the figure is adjusted to 1, the machine will fish without any stops. The machine will pay out the line, and haul up again to the gunwale immediately. Here it stops for some seconds, and will repeat the operation.

This fishing method is used for e.g. squid and mackerel fishing.

6: WAVE COMPENSATION

The display shows: **6d** and a figure.

The standard figure for Wave Compensation is 0, and in normal conditions it is not necessary to adjust this figure. If the vessel has heavy moves in rough sea, the machine may falsely sense the sinker has touched the bottom, so the value may need to be adjusted. If the vessel is rolling faster than the line is payed out, the machine will sense it as the sinker has touched the bottom, and will start fishing before the sinker has reached the bottom. Under these conditions, the WAVE COMPENSATION should be increased.

7: SEARCH RANGE

The display shows: **7d** and a figure.

This figure indicates how many fathoms from the surface, or pre-set depth, the machine is adjusted to commence search (see the  (SEARCH) button on page 9).

8: JIG PAUSE

The display shows: **7d** and a figure.

This figure indicates in seconds the pause between jigging period.

DEFAULT VALUES IN THE STANDARD PROGRAM:**MOTOR-FUNCTIONS:**

	Standard Value:	Range:
0 JIG SPEED UP	30 % of max. RPM.	10 - 99
1 BITE SPEED	20 % of max. RPM.	10 - 99
2 BITE TIME	15 sconds	00 - 99
3 SPEED 1	75 % of max. RPM.	10 - 99
4 SPEED 2	99 % of max. RPM.	10 - 99
5 MAX. PULLING POWER	40 % of max. Power	10 - 99
6 MIN. PULLING POWER	27 % of max. Power	10 - 99
7 TANGLING	4.5	3.0 - 7.0
8 JIG SPEED DOWN	90 % of max. RPM	10 - 99

**JIG-FUNCTIONS:**

	Standard Value:	Range:
0 WEIGHT	45	10 - 99
1 HIGHT FROM BOTTOM	1.0 fathoms	0.0 - 9.9
2 JIG TRAVEL	2.0 fathoms	0.2 - 9.9
3 JIG NUMBER	05	01 - 99
4 DRIFT COMPENSATION	40	01 - 99
5 PROGRAMME 0-1	00	00 or 01
6 WAVE COMPENSATION	00	00 - 06
7 SEARCH RANGE	40 fathoms	05 - 99
8 JIG PAUSE	00 seconds	00 - 99

MOUNTING ONBOARD THE VESSEL:

Since no two fishing vessels are laid out the same, the machine is built to be adapted to individual requirements. The machine is fitted with a taper shaft end (see fig. 4 below). This shaft end can then be welded to any mounting bracket suitable to the individual vessel's conditions.

(On page 33 there are some examples of mounting brackets)

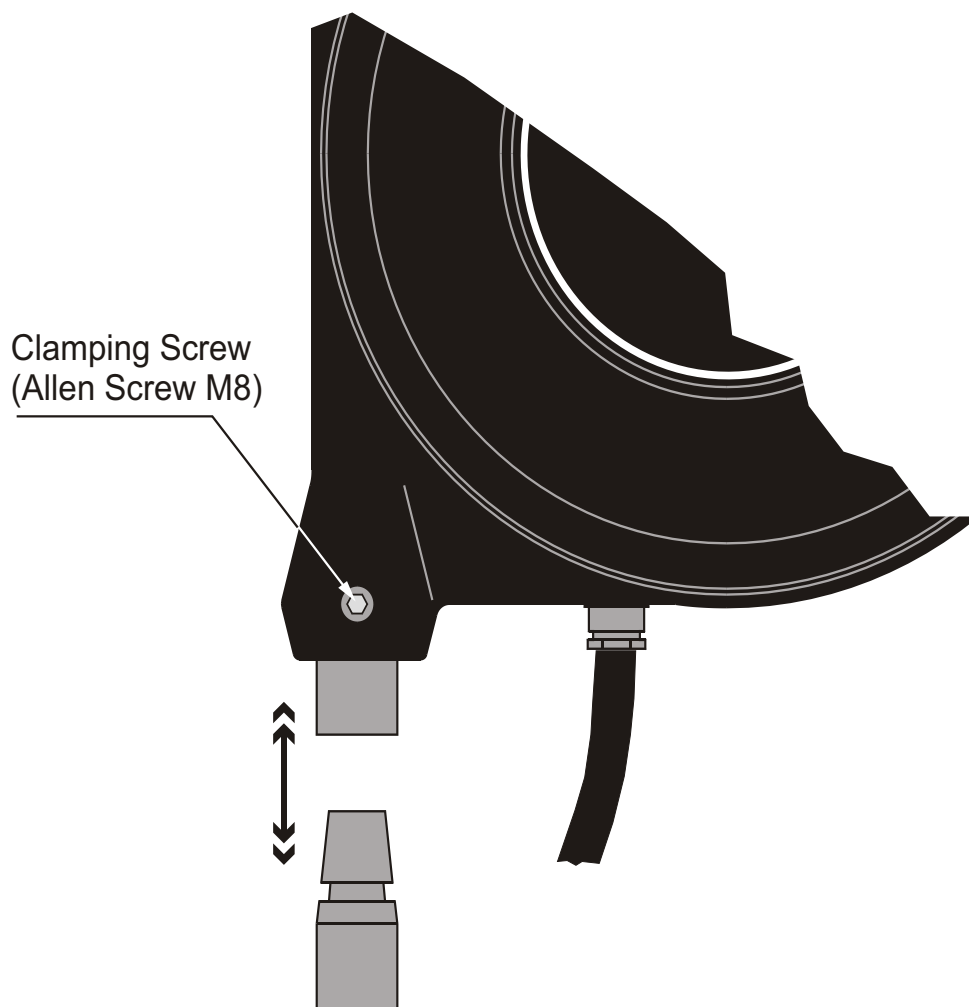


Fig. 4

ELECTRIC CONNECTION:

Fig. 5 shows an electric diagram, which is our recommendation on building up the electric system for the jiggling machines on board a vessel.

Please note, that on the jiggling machine, **the red cable is the +pole.**

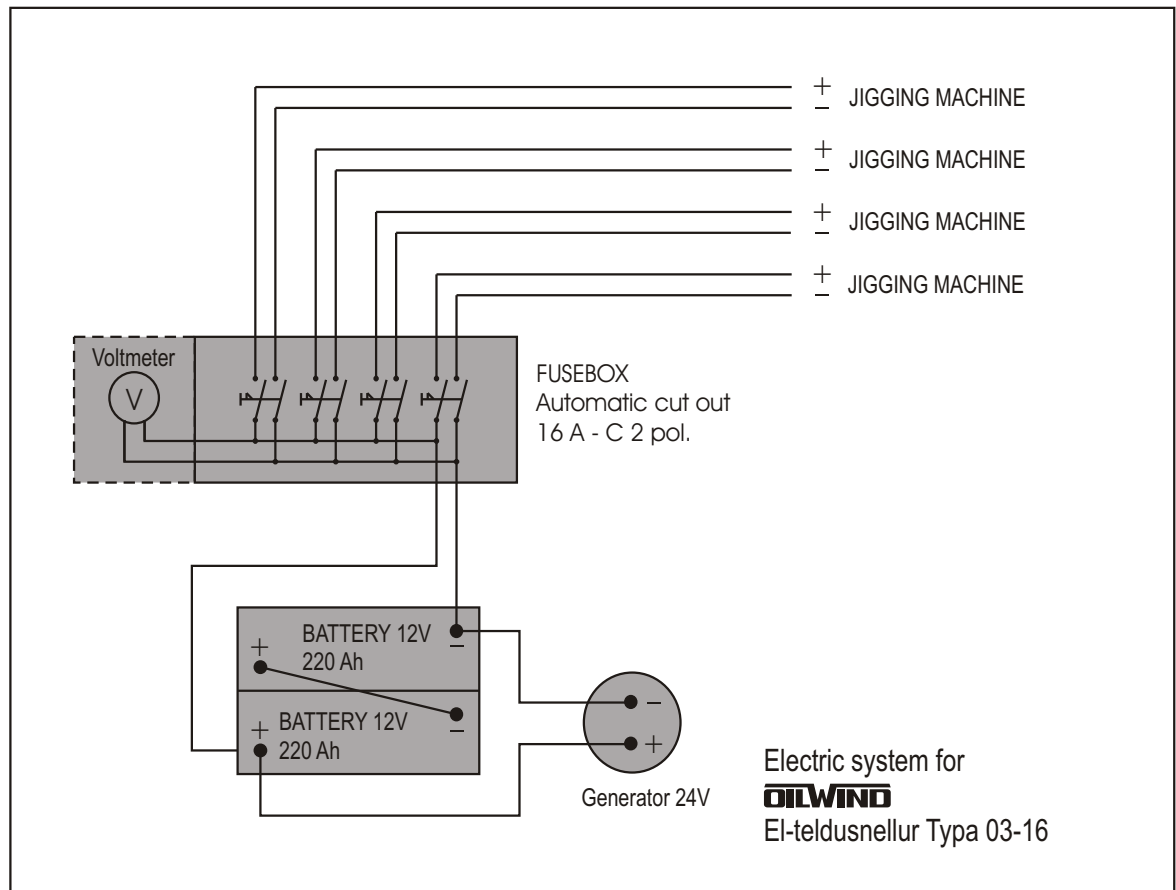


Fig. 5

Cable from generator to battery From battery to fusebox.			Cable from jigger to fusebox.	
No. of jiggers	Cable cr. section	Max length	Max. length	Cable cr. section
max. 4	10mm ²	4,5m	7,5m	2x2,5mm ²
max. 6	16mm ²	3,8m	12,0m	2x4,0mm ²
max. 8	25mm ²	3,2m	18,0m	2x6,0mm ²

MAINTENANCE:**Weight sensing arm:**

For the machine it is of great importance, that the weight sensing arm's function is smooth and frictionless. Therefore please be very careful, that there is no dirt or corrosion on the weight sensing arm's cylinder(see fig. 6 below). The cylinder needs to be coated in light oil frequently. Please make it a rule, that you check this before leaving for the fishing grounds.

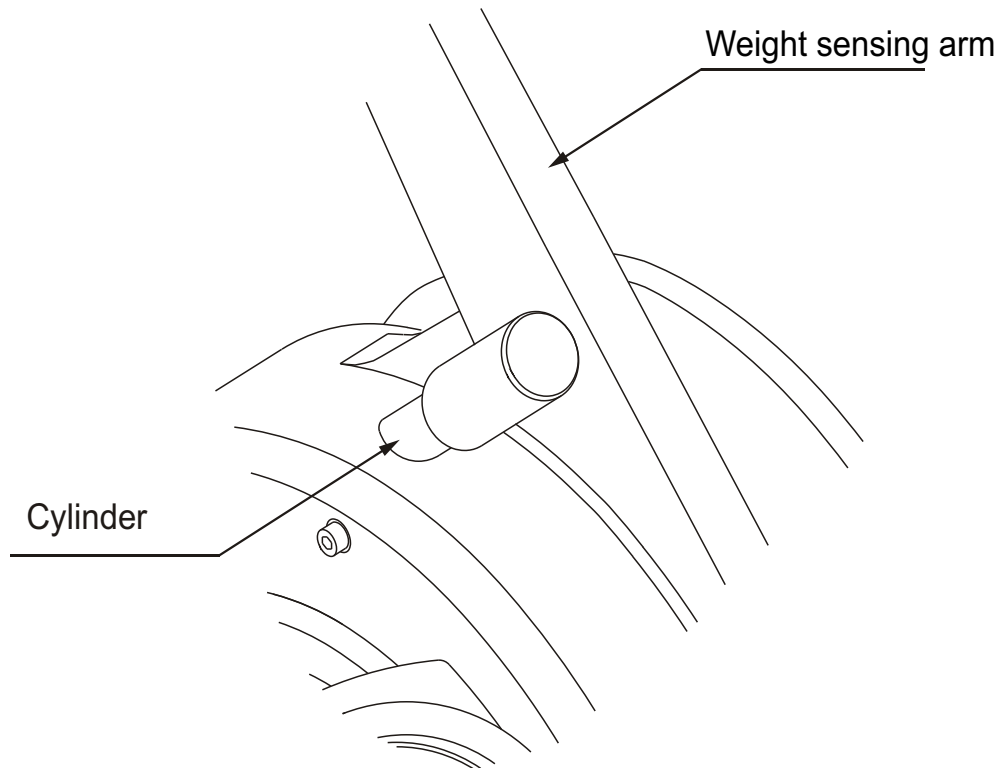


Fig. 6

MAINTENANCE:**Replacing of the fuse:**

The machine is equipped with an electric fuse. The fuse is placed on the motor print board (see fig. 7 below) inside the housing. Replace the fuse by removing the housing: unscrew the screws at the end of the housing (see fig 9 on page 24) and then remove the fuse placed in the fuse socket on the print board.

The type of the fuse is: 1 pc. 5 x 20 mm Quick Acting - F 18 A 250 V).

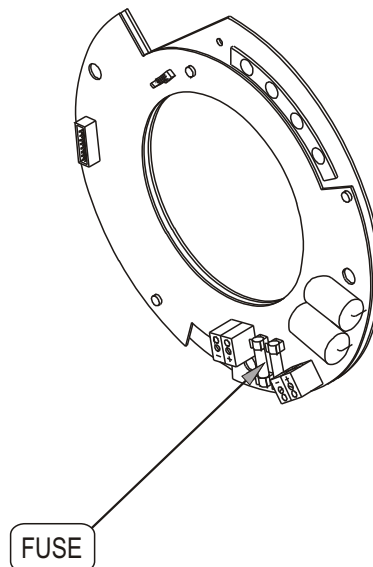
MOTOR PRINT BOARD

Fig. 7

Note!

Electronic parts are very sensitive, and should therefore be handled with great care.

MAINTENANCE:**Replacing of electronic print board:**

When replacing the jiggering machines electronic print board, please follow the instructions below:

Computer print board - (see fig. 8 below)

Unscrew the screws on the computer box.

Remove the top of the box, and unplug the cable plugs, marked FL, DP and MP, from the print board. The print board is fastened to the bottom of the computer box with 3 clips, and you will remove the print board by pressing the clips and removing it easily.

Motor print board - (see fig. 9 on page 23)

Unscrew the screws at the end of the housing..

Unplug the plugs marked Pot and TP. Release the electric wires, marked EL-inn and EL-mot, from the terminal block. Unscrew the 4 screws in the aluminium plate, marked SMP. Please note, that the print board shall not be released from the aluminium plate. Move the print board carefully out, over the motor.

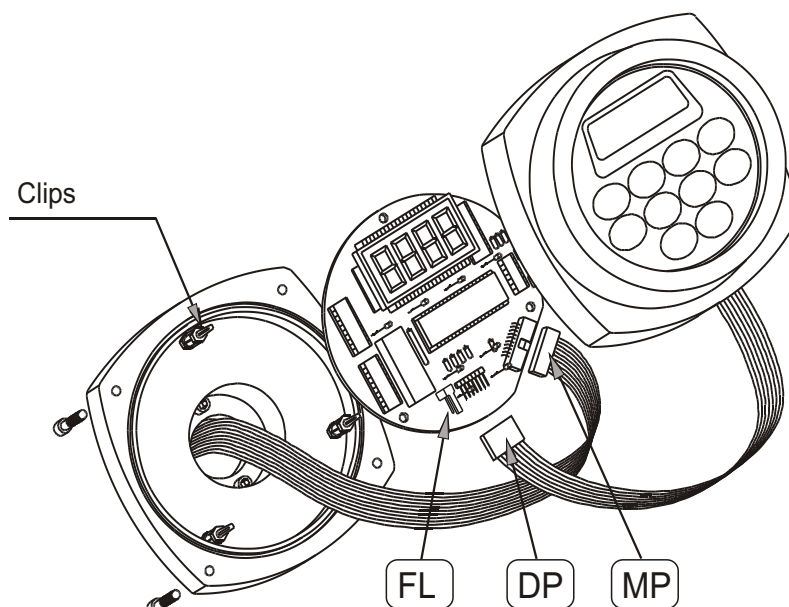


Fig. 8

Note!

Electronic parts are very sensitive, and should therefore be handled with great care. - Replacement of electronic parts and components shall be carried out in dry surroundings.

Humidity bag (please see drawing on the next page)

To protect the electric and electronic parts and components in the machine against humidity which can appear during temperature changes, there is a humidity bag (Silica Gel) inside the machine (attached to the electric motor).

Our recommendation is, that this bag will be replaced when you are servicing the machine, or at least every year.

MOTOR PRINT BOARD

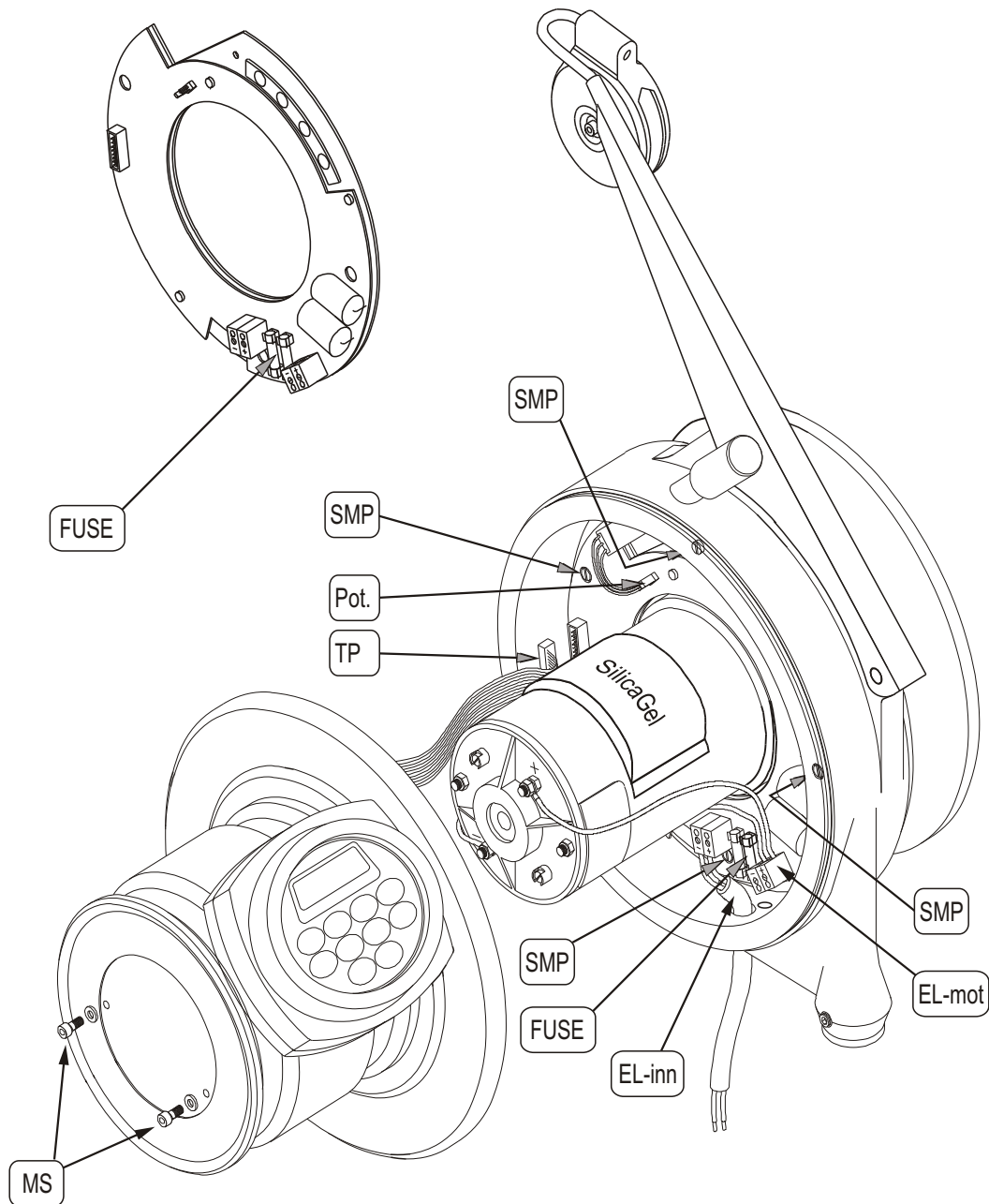


Fig. 9

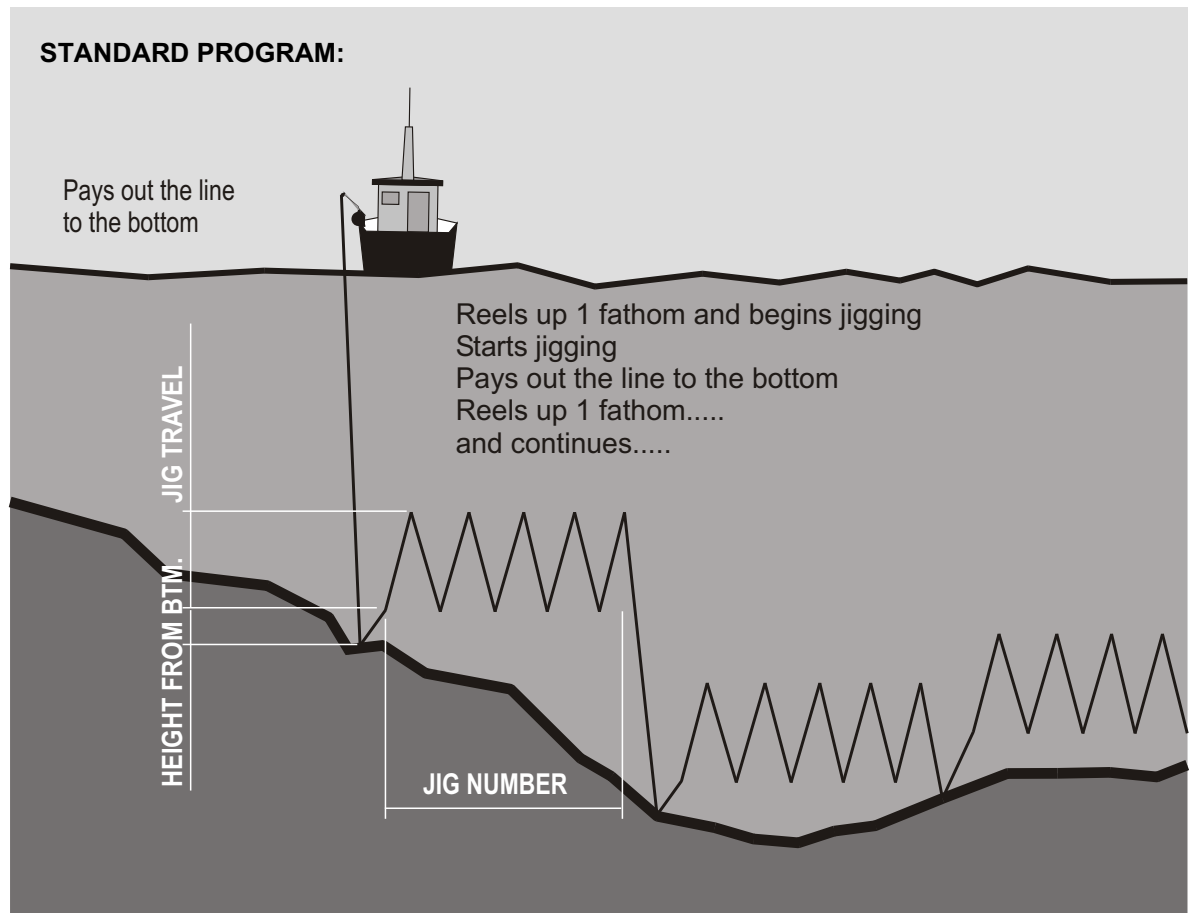


Fig. 10

Instructions:

Press the  (DOWN) button. The machine pays out the line to the bottom - and starts fishing as described above. This fishing method is the machine's standard program.

If you have adjusted some values, but wish to return to the standard program, then use the  (CLEAR) button. By pressing the button for 5 seconds, or until the whistle gives one long sound, the computer will return to the standard program.

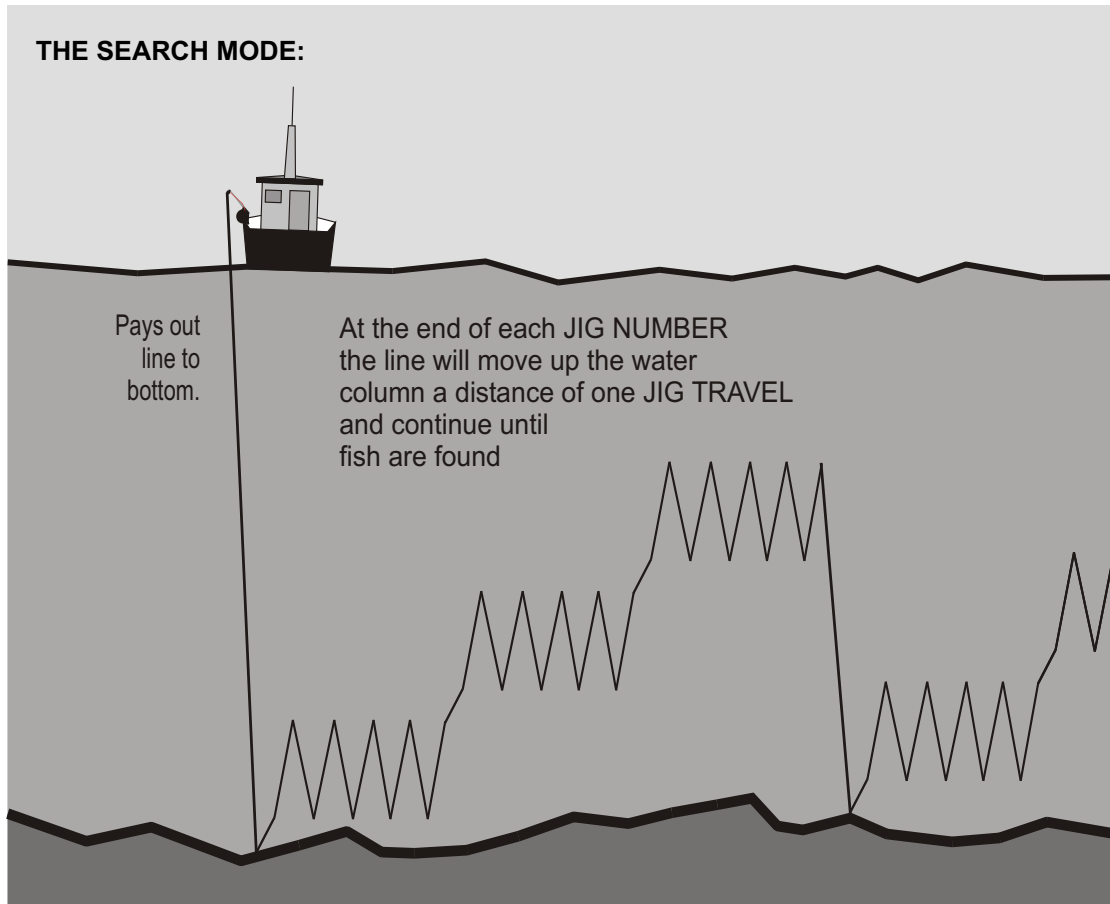


Fig. 11

Adjustment instructions:

Press the  (SEARCH) button (the light starts flashing) and then the  (DOWN) button. The displays shows a . (colon), and the light in the  (SEARCH) button is on. The machine is now adjusted to search from the bottom and upwards the water. The machine is jigging, moves up the water and starts jigging again and so on, until it reaches the value, adjusted as the Search Range. The machine will then again pay the line to the bottom, and starts searching again (see further information in JIG FUNCTIONS, 7: SEARCH RANGE). In the standard program the Search Range is pre-set to 40, or the machine will search up to 40 fathoms. The mode can be adjusted as to your requirements.

To start fishing from the bottom again, press the  (SEARCH) button, and then the  (DOWN) button.

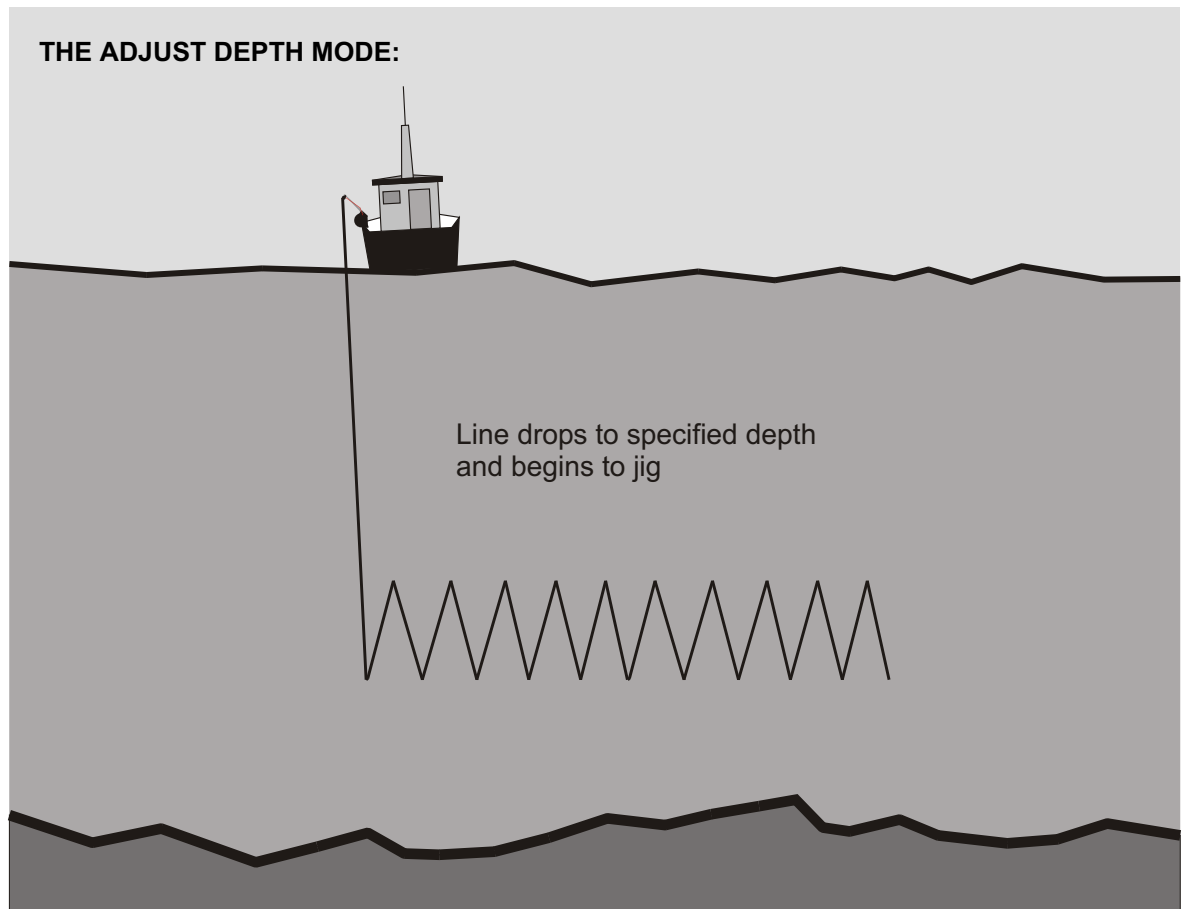


Fig. 12

Adjustment instructions:

Press the  (ADJUST DEPTH) button (the light starts flashing), then adjust the planned depth by using the  (PLUS) or  (MINUS buttons, press the  (DOWN) button, and the machine starts fishing at the adjusted depth (the button's light is on during fishing at the adjusted depth).

To start fishing from the bottom again, press the buttons as follows:

 (ADJUST DEPTH),  (CLEAR) and  (DOWN).

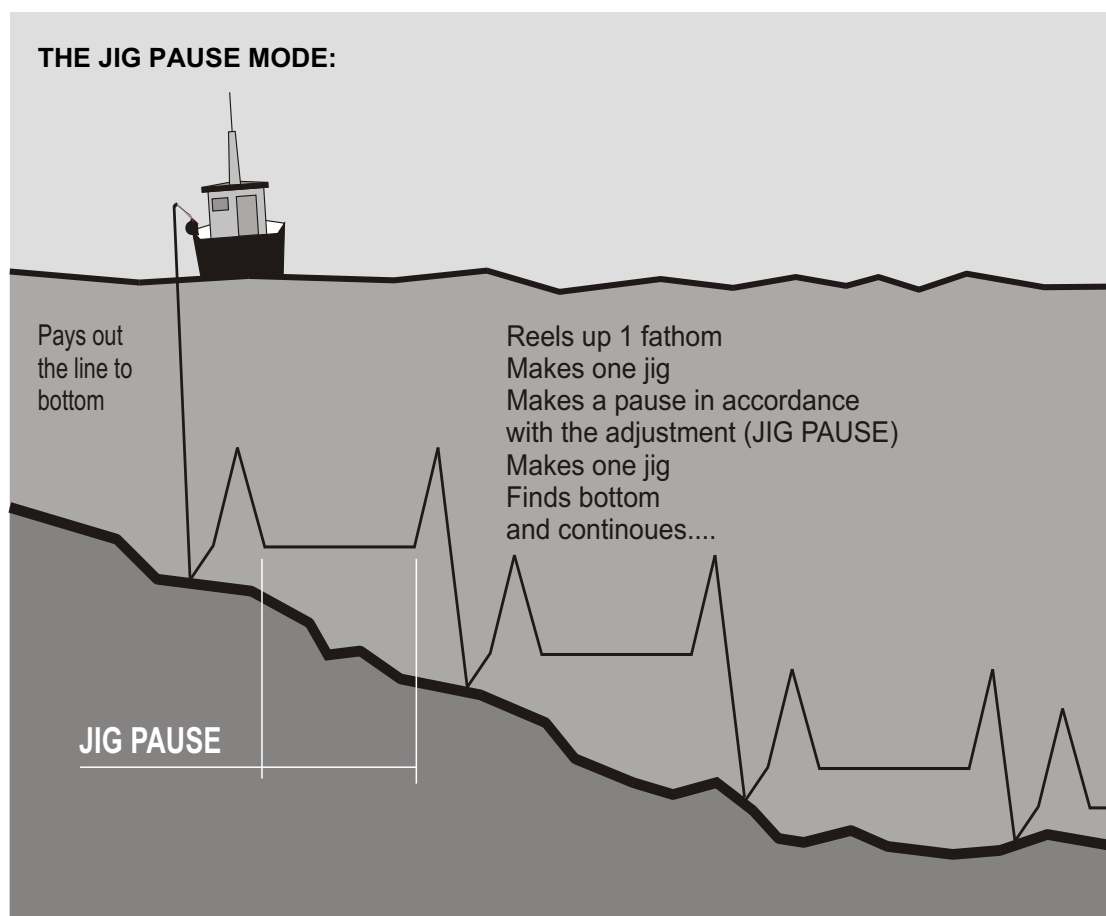


Fig. 13

Adjustment instructions:

Press the  (ADJUST JIG) button (the light is on). Press as many times as necessary to get the display to show **8d**. Adjust the value with the  (PLUS) or  (MINUS) button (the light starts flashing).

The adjustment indicates in seconds the pause between jiggering period.

To confirm the adjusted value, press the  (ADJUST JIG) button (the light stops flashing).

To activate the new program press the  (DOWN) button.

If you wish to see how many fathoms of line are paid out, press the

 (WEIGHT - DEPTH) button (the light in the (ADJUST JIG) button is switched off).

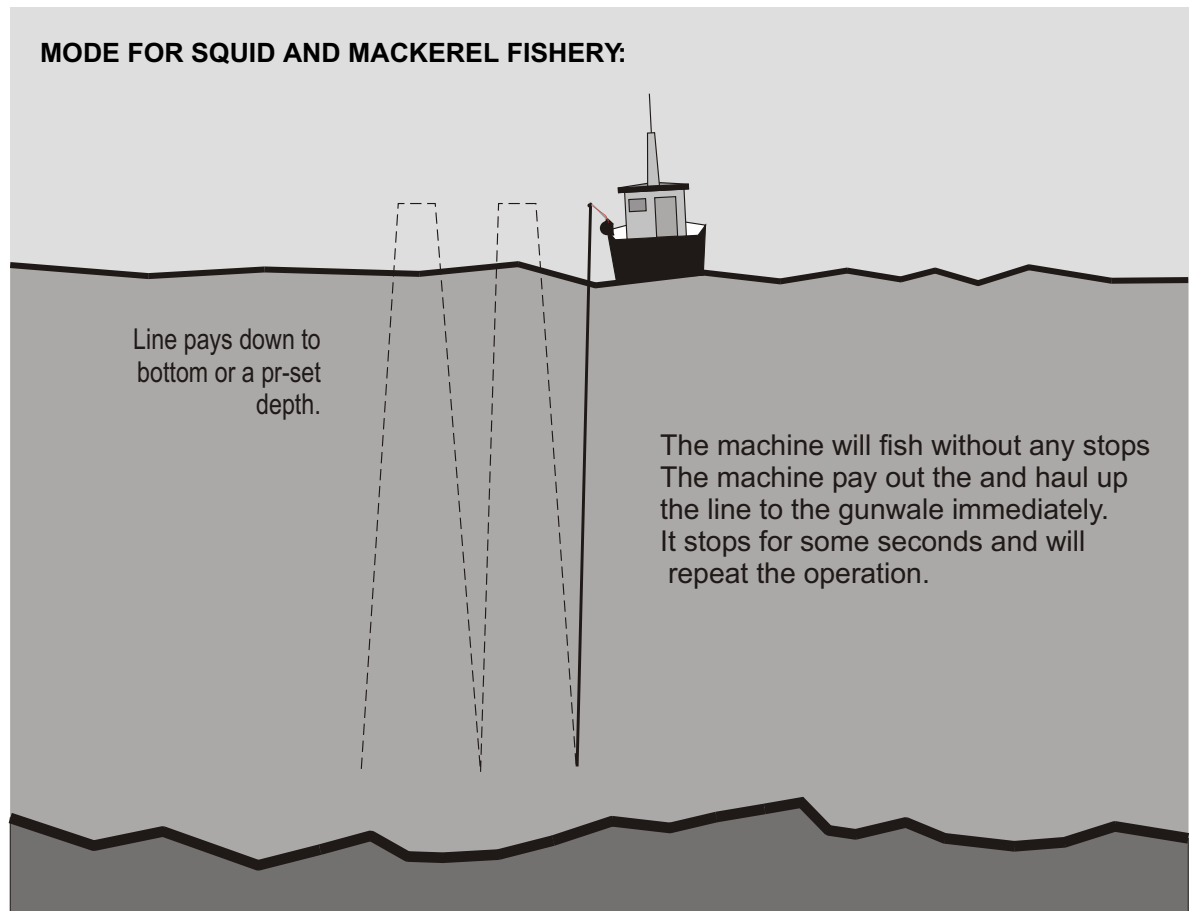


Fig. 14

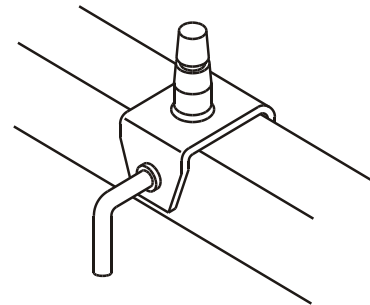
Adjustment instructions:

Press the  (ADJUST JIG) button (the light is on). Press as many times as necessary to get the display to show **5d**. Adjust the value to 1 by pressing the  (PLUS) button (the light starts flashing). To confirm the adjusted value, press the  (ADJUST JIG) button (the light stops flashing).

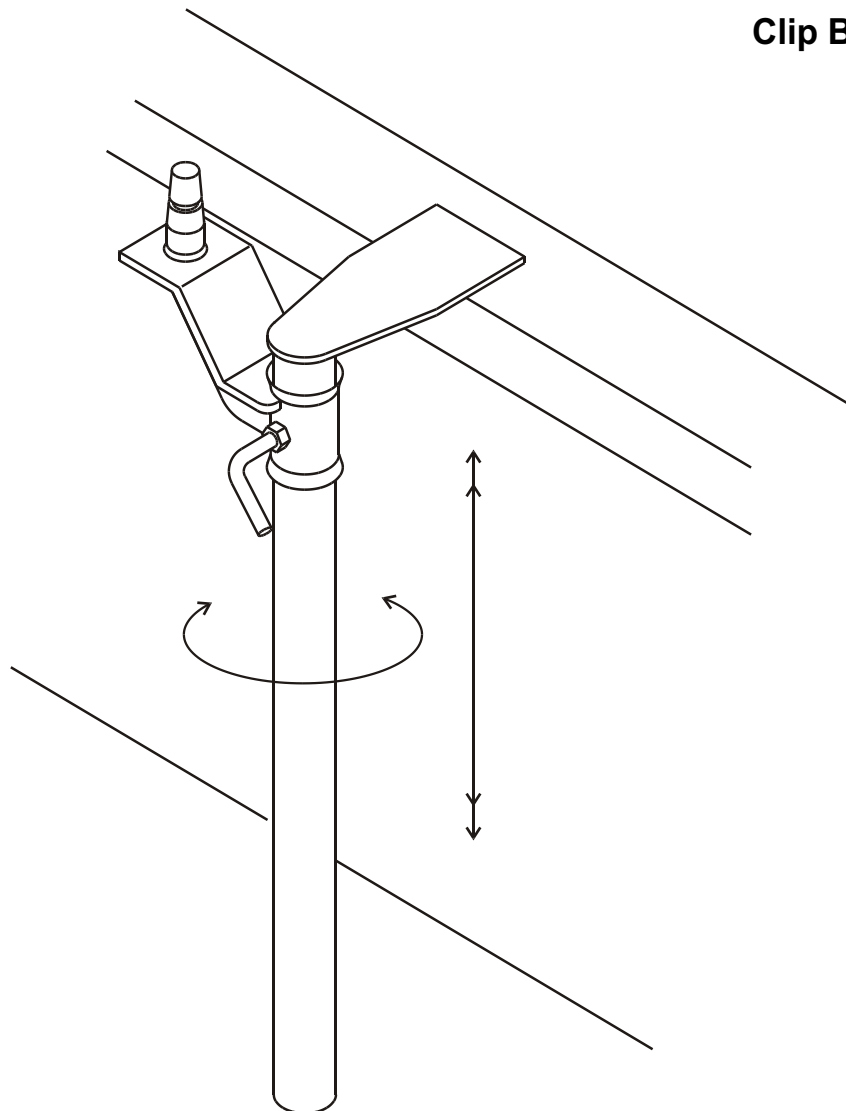
To activate the new program press the  (DOWN) button.

If you wish to see how many fathoms of line are payed out, press the  (WEIGHT - DEPTH) button (the light in the  (ADJUST JIG) button is switched off).

Examples of mounting brackets:



Clip Bracket



Adjustable Bracket

Technical Information:

Weight: 17,0 kg

Electric power: 24 v.

Max electric consumption: 20 Amp.

Average electric consumption: 2,5-3,5 Amp.

Speed: 0-135 rpm.

Line length - $\varnothing 1,6\text{mm}$:

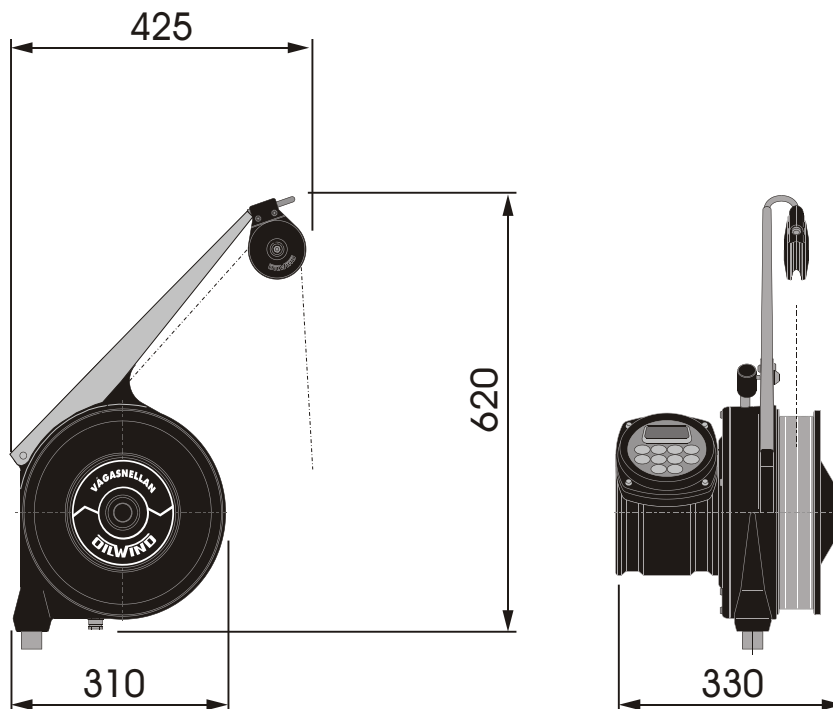
400 fathoms - 730 m.

$\varnothing 1,3\text{mm}$:

600 fathoms - 1100 m.

$\varnothing 1,0\text{mm}$:

1000 fathoms - 1830 m.



Dimensions in millimeter

PRODUCED BY:

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