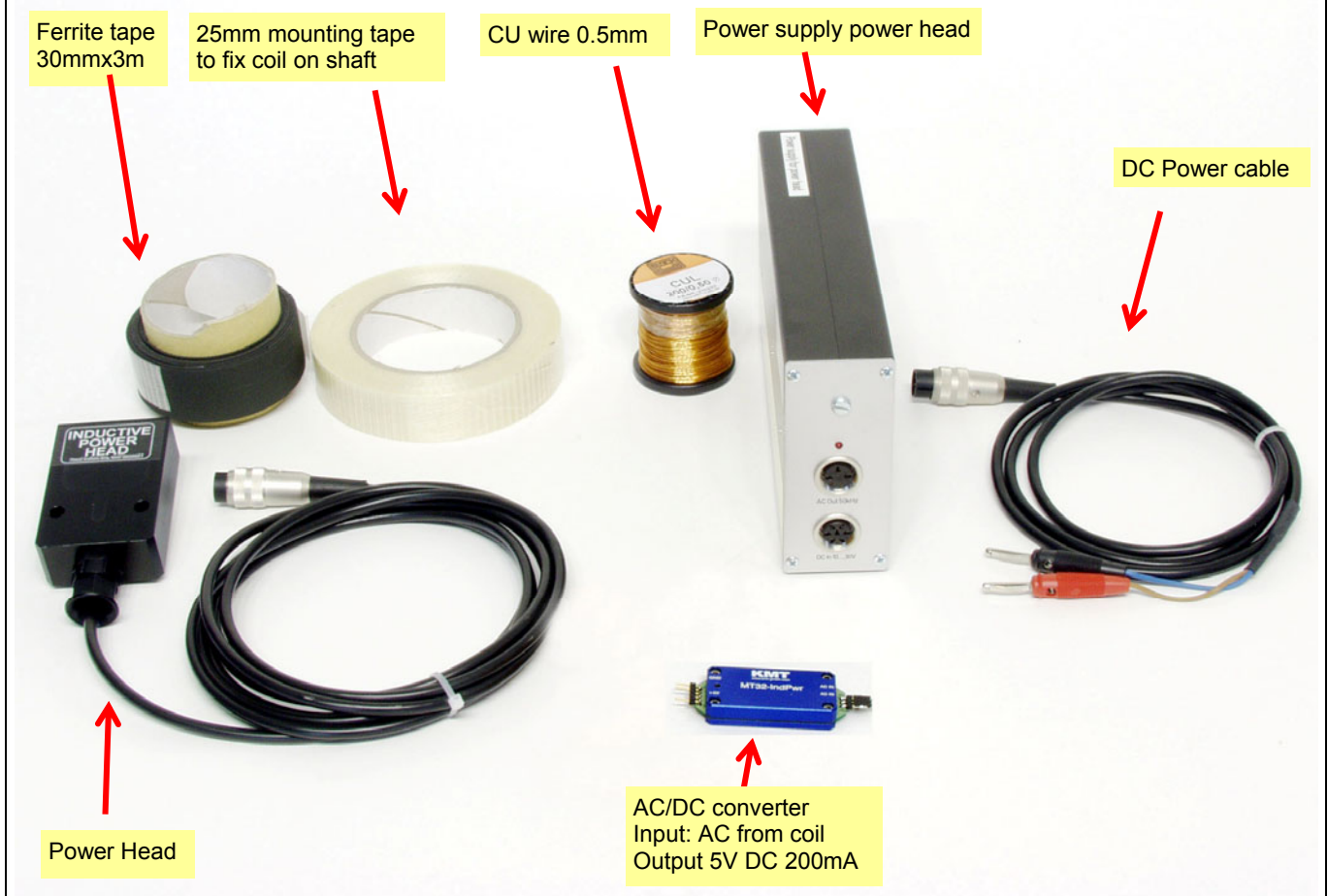


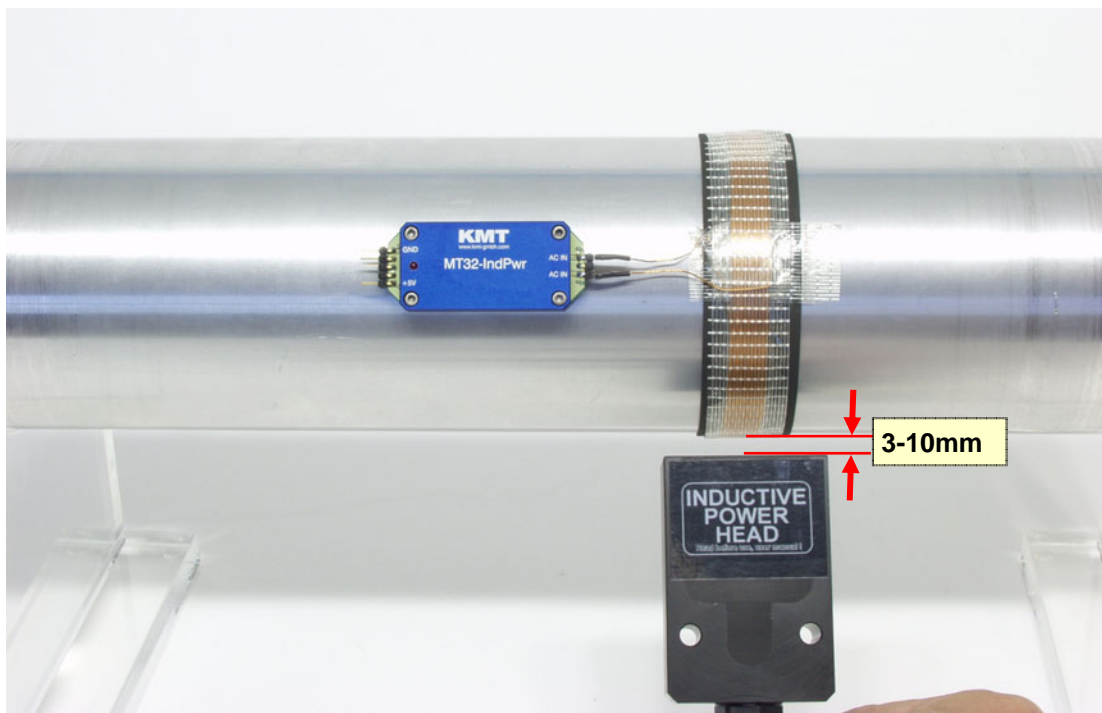
Induktive Stromversorgung für rotierende MT32 Mini-Telemetrie

MT32- Inductive power supply set:

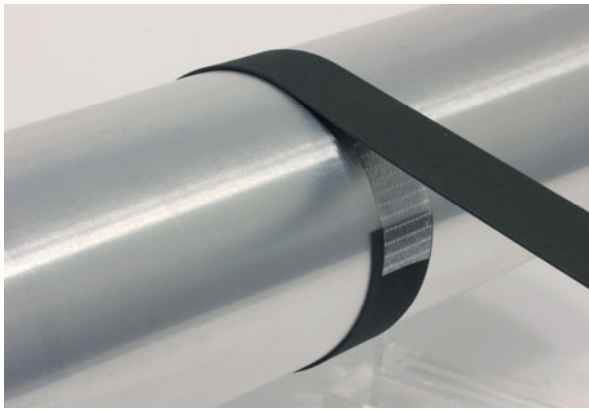
(Picture shows standard Inductive power supply for diameter up to 120mm)



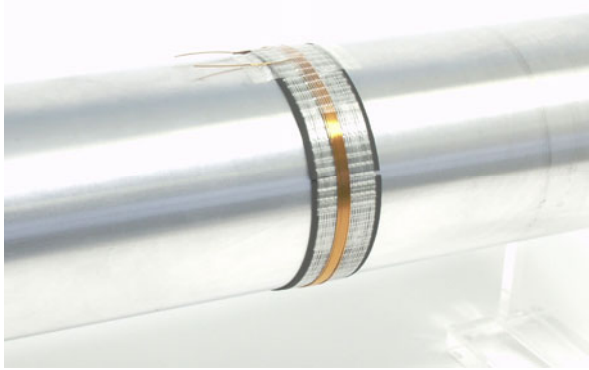
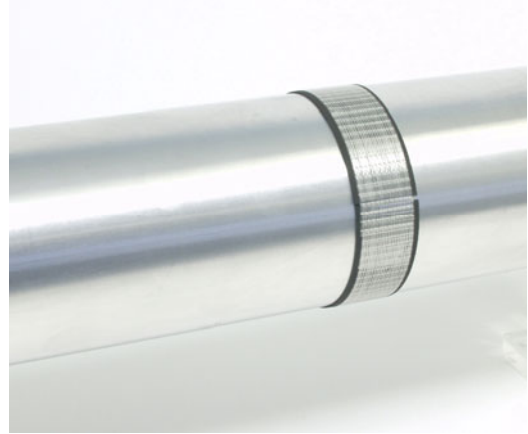
Mounted on shaft:



Installation of coil for inductive powering on shaft



Attach for electromagnetic insulation “Ferrite Tape” **2 x one** layer around the shaft.
Fixed with 2 layers mounting tape



Wind the 0.5 mm enameled copper wire around the shaft:

7-25 windings for 1000-20mm diameter
Other diameter on request!

Note: “The inductive load of the MT32- IND-PWR and the capacitor in the Power Head must be in resonance to get the optimal transmission. The inductive load of the shaft depends of diameters, material and number of windings. ”

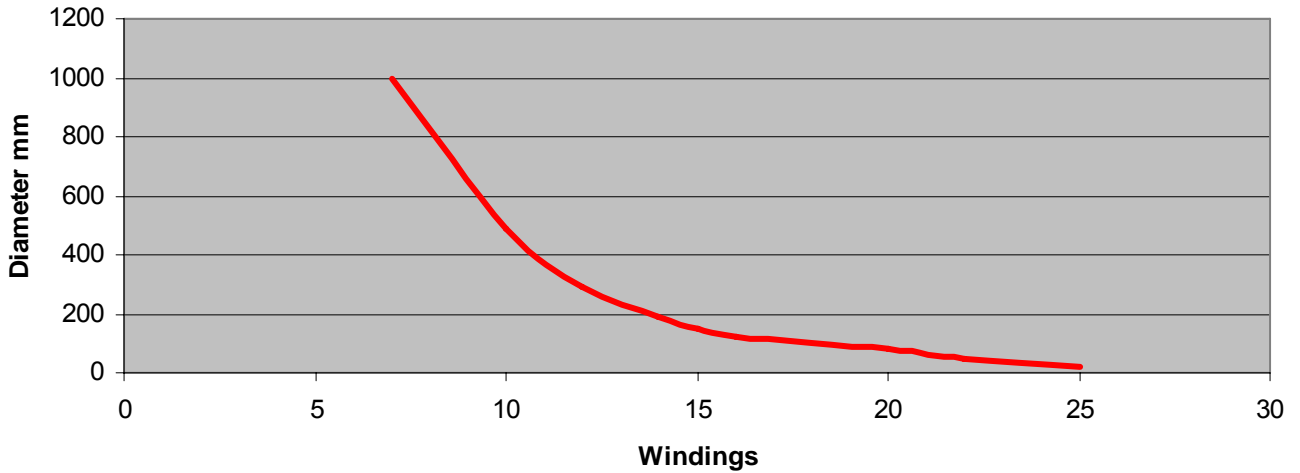
To find the optimal transmission try one winding more ore less. The LED on the Inductive Power module will help to find the best configuration. The distance between Powerhad and the coil is 3-10mm.

Control the output voltage and move the powerhead in the max distance to the coil.
The minimum Output voltage must be 4,8 V!

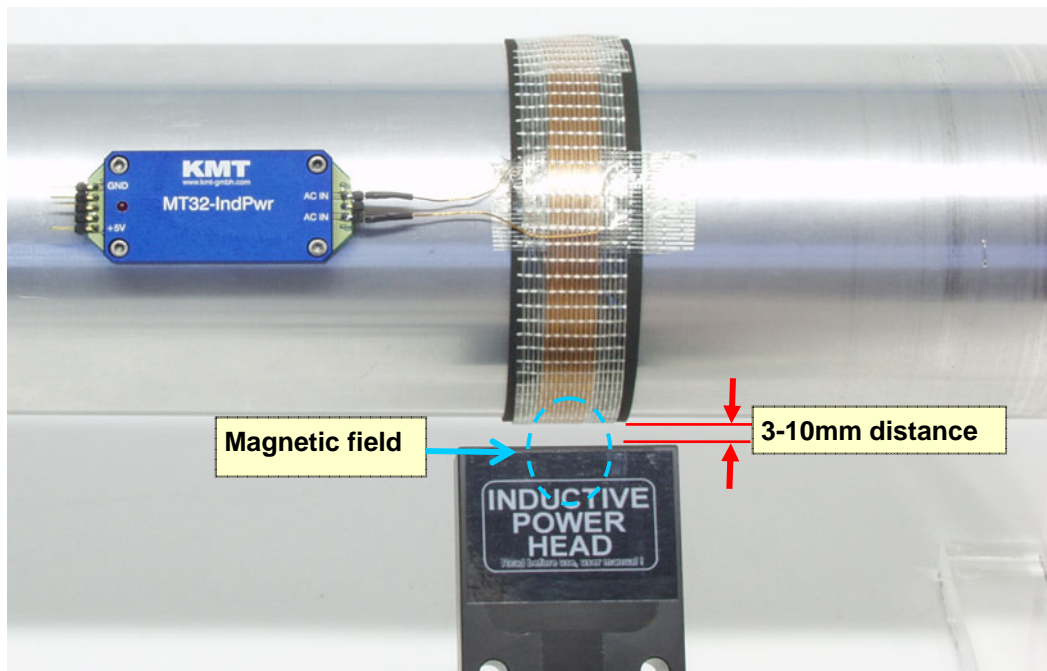
Fix all with 2-3 layers around the coil with mounting tape.

Find the correct amount of windings of inductive power coil

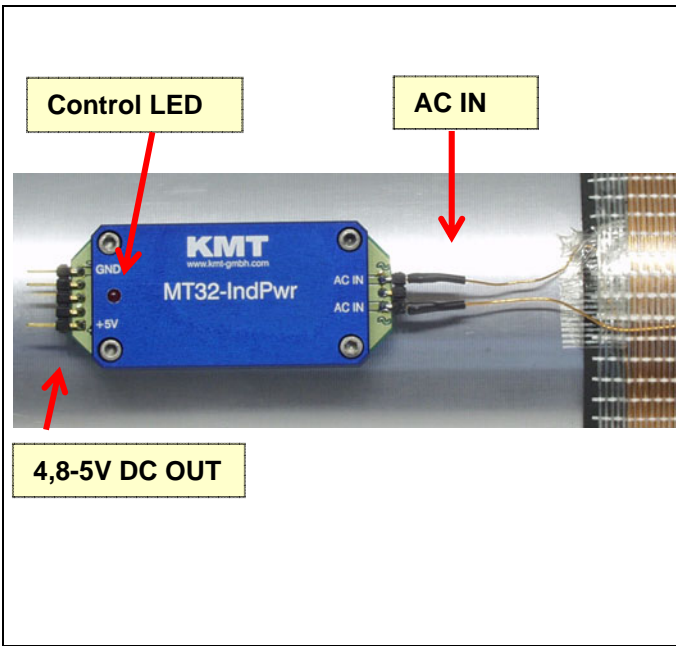
Optimum windings for steel shafts



Diameter (mm)	Windings
1000	7
490	10
290	12
190	14
150	15
120	16
80	20
45	22
20	25



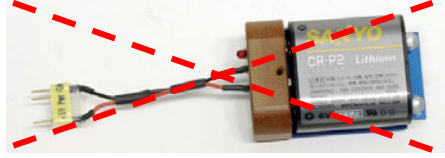
Distance deepened of current consumption
e.g. 200mA 3-5mm, 100mA 5-10mm



The pins "AC IN" are the AC power input from the coil. On the pins "+5" and "GND" you get a stabilized output voltage of 5V DC. The control LED will lights up, as soon as the power head is switched on and at the right position - close enough to the coil on the shaft.

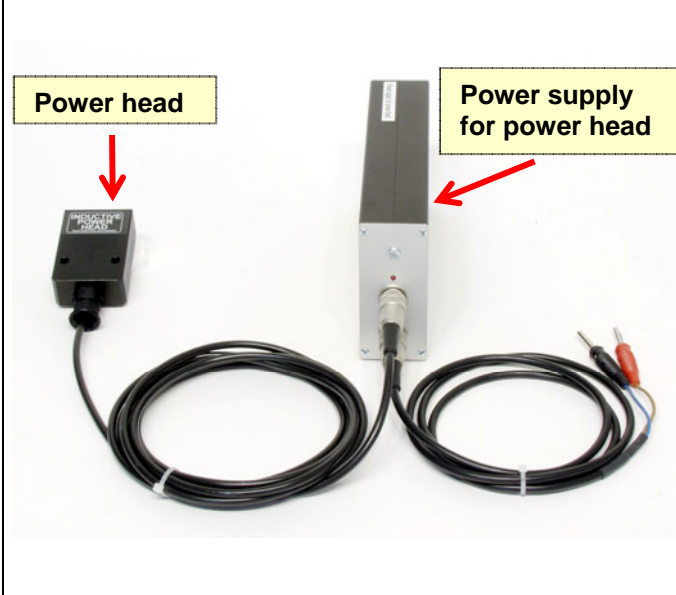
The max. load current on the DC output is 250mA.

The AC/DC converter will use instead battery pack!

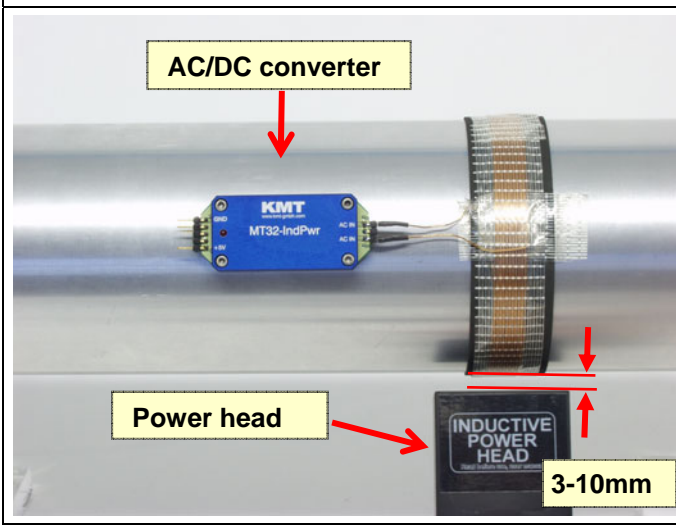
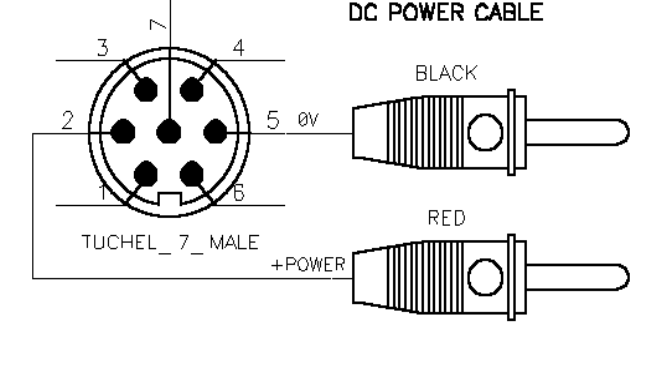


Never use any battery pack together with the MT32-IndPwr!

Installation of the power head for inductive powering



Connect the power head on the "AC Out" socket of the power box and then the DC power cable on the "DC In 10-30V" socket. The two banana plugs have to be connected to a DC power source with **red** on **+10-30V DC** and **black** on **0V**.



You should mount the power head at a fixed location that it's as free as possible from vibration influences.

The center of the coil should be in the same horizontal position as the center of the power head. The distance is optimal in the range between 3 and 10mm. (depends of shaft and current consumption)

If the red LED of the AC/DC converter lights up, the position of the power head is OK.