

## CALIBRATION sphere's FOR SIMRAD ECHOSOUNDERS

To have a right calibration of the echo sounder or equivalent it is important to have a perfect Sphere under the ship in the beam of the echo sounder.

BE Systems invented a perfect Sphere to detect the sphere only and not the netting knots , So in this case the echo sounder detects only the Sphere and this improves the calibration accuracy.

This method ensures a perfect attachment of the monofilament loop.

The echo sounder reads only the Sphere and this improves the calibration process.

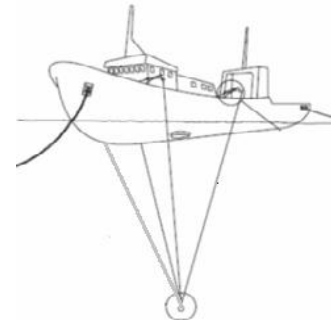
The echosounder target distortion is minimal and maximizes the accuracy and repeatability compared to the standard netting around the 38.1mm

We have all size available in Tungsten or Copper material:

Sphere Size	Type of system	BE Order-number
22 mm	333khz	3875 654 6412
25 mm	ME 70	3875 654 6416
38.1 mm	38kc, 70kc, 120kc, 200kc	3875 654 6418
63 mm Cu	18 KHZ	3875 654 6421



Name of the ship on the packing case



Spheres will work on 3 or 4 boom system

Frequency [kHz]	Calibration Sphere	Nominal TS [dB]
18	63.0 mm Cu	-34.44
38	60.0 mm Cu	-33.60
38	38.1 mm WC	-42.04
70	32.1 mm Cu	-39.10
70	38.1 mm WC	-40.56
120	23.0 mm Cu	-40.40
120	38.1 mm WC	-39.83
200	13.7 mm Cu	-45.00
200	38.1 mm WC	-39.45

For more information please ask your local supplier or send an email to [info@be-systems.nl](mailto:info@be-systems.nl)