



We supply and install the world most ruggedize and reliable Non Directional Beacon (NDB) systems for both land operations and/or offshore installation.



Non DIRECTIONAL BEACON

YOUR RELIABLE CONTRACTOR FOR

Design, Integrate, Supply, Installation, Commissioning, Maintenance and providing Training Courses of:



TOSHIKOO

Land Installations

TASHKOO engineers have many years of successful experiences in installation, commissioning, providing training of SAC NDB systems in different countries.

TASHKOO Ltd. is a British specialist system integrator and contractor in a wide range of telecommunication, marine and navigation systems and solutions.

TASHKOO expertise in the areas of project management and execution, combined with our access to leading manufacturers explosion proof & weatherproof related products and also our excellent engineering deep knowledge and skills on different types of telecommunication equipment, allowed us to deliver installation, inspection, repair, maintenance and commissioning services to several worldwide offshore oil and gas operators and industries.

TASHKOO offers a complete system solution from planning and surveying to installation and maintenance. Thanks to our worldwide reputation for reliability and customer satisfaction, the customer can relax concerning the technical issues of the project.



Offshore Installations

TASHKOO have extensive industry knowledge and a history of many successful experiences in areas of telecommunication equipment installations on offshore platforms and vessels including:

- Drilling rigs
- Floating production storage and offloading vessels (FPSO)
- Natural gas platforms
- Oil platforms



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TASHKOO Ltd. is an authorised service centre of Southern Avionics Company (SAC).

SAC is an American leading manufacturer of navigational transmitters such as low frequency Non-Directional Radio Beacons and DGPS Reference Station Transmitters.

For more than 45 years, SAC have been providing safe and reliable navigation aids for industrial civil and military users and their respective aeronautical & maritime user-communities throughout the world.

A Non-Directional Beacon (NDB) is a simple radio transmitter operating slightly below the AM broadcast band, or in the Long-wave band. It sends out a continuous signal, a "carrier," which is often modulated with the station's identification, in Morse code. This code helps the pilots confirm that they are tuned to the right frequency. The pilots have on their flight deck an instrument called the ADF or Automatic Direction Finder, which simply consists of a needle which points toward the NDB. Thus, the pilots can locate and track towards one. This is very useful for a place, which during inclement weather can often be very hard to visually pinpoint. Using this information along with the magnetic compass and the NDB receiver, the pilot could determine the aircraft's bearing from the NDB.

TASHKOO Ltd. supply and install NDB transmits medium frequency band (190-650 kHz).

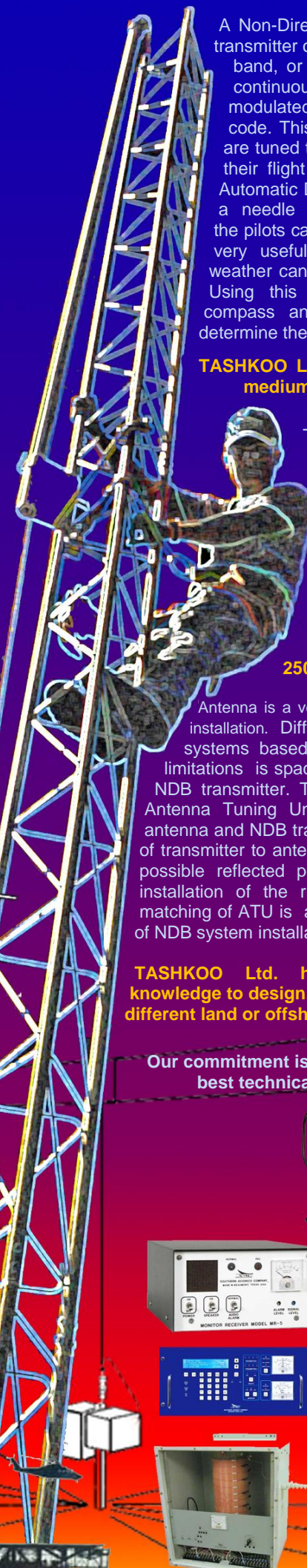
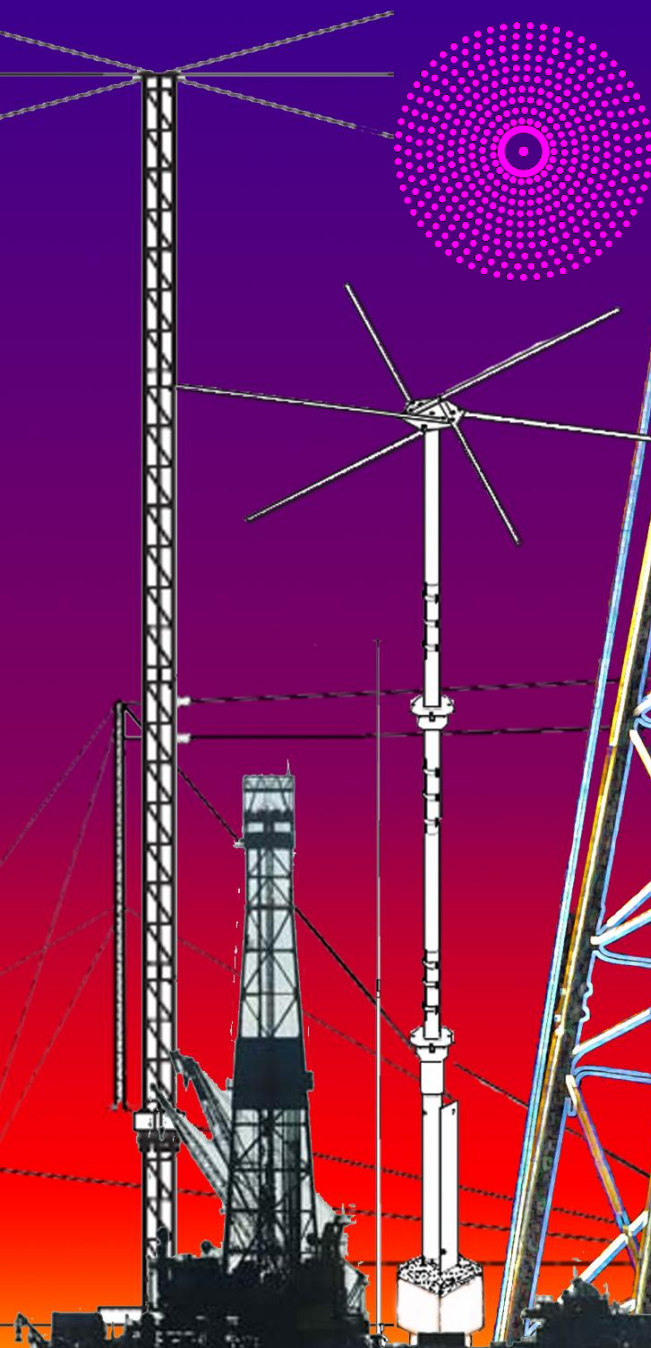
The range of the beacon will depend on the type of antenna used, the location of the installation; the RF power supplied to the antenna, and the operating frequency and ground conductivity. Effective coverage also varies according to the time of day and the season of the year.

TASHKOO Ltd. supply and install NDB transmits of 25 W, 50W, 125W, 250W, 500W and 1000W.

Antenna is a very important part of NDB transmitter system installation. Different antennas will be used for NDB systems based on offshore or onshore installation or limitations is space and area needed for the installation of NDB transmitter. To tune the antenna to transmitter, an Antenna Tuning Unit (ATU) should be installed between antenna and NDB transmitter. The ATU links 50 Ohms output of transmitter to antenna to transfer maximum power at lower possible reflected power and VSWR. Correct design and installation of the right antenna and proper tuning and matching of ATU is a key element in the correct performance of NDB system installation.

TASHKOO Ltd. has engineering experiences and knowledge to design, integrate and install NDB systems for different land or offshore application.

Our commitment is to provide our customers with the best technical and cost effective solutions.



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