

Some of our certificates



ISO 9001:2000



ISO 14000:2004



Certificate of Conformity



BV Mode 1 Survey Scheme



BV Type approval certificate



CRS Type approval



RINA Scheme 1 axial and centrifugal fans



RINA Scheme 2 motors and drives up to 100 kW



CESI Type certificate



EX Agency quality approval



CESI production quality control



KONČAR
KONČAR - MES d.d.



References

| | |
|--------------------|----------------------------|
| 3. MAJ Rijeka | Hrvatske autoceste Zagreb |
| Uljanik Pula | Adriawinch Split |
| Brodosplit Split | Vulkan Rijeka |
| Brodotrogir Trogir | Brodogradilište Kraljevica |

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Končar - MES in shipbuilding industry

European Excellence in Customized Products



Electric motors

Končar MES is present in shipbuilding industry for many years. Great production experience and quality of products subjected to most rigorous tests at own test beds and with certification agency representatives, guarantees reliability in heavy duty working conditions on ships or in coastal environment.

All our marine application motors have CRS, BV and RINA agencies type approvals. Beside that, we have production certificate BV mode survey and RINA Scheme II (for motors and drives up to 100kW), and for marine use motors in ATEX we have CESI and Croatian EX Agency certificates.

Standard marine application electric motors are produced in sizes 63-280 according to IEC / DIN / VDE standards, and they have tropicalized winding and epoxy paint coating. They are designed to work at 440V/60Hz (400V/50Hz) and they have IP55 mechanical protection degree.

Beside standard marine application, we can produce motors with different special options (non-standard powers, other voltages and frequencies, different pole numbers for one and multi speed motors, different mounting arrangements, thermal protecting devices, two output shafts, class H insulation, special flanges and shafts, without fan cover - IC 410 cooling method, space heaters, regreasing option, IP56/66 protection degrees and other options according to customers request). Motors can be bought together with different parts (switches, safety switches and relays, forced ventilation, encoder and various types of measuring devices).

We can also deliver marine application electric motors with brake which has wide application in winches and cranes.

Other important part of our production program are standard and marine use electric motors in ATEX design. Whole production program (up to 90 kW) is covered by CESI and Croatian EX Agency certificates. Motors can be in Ex d(e), Ex de IIC / Ex d IIC, Ex e II or Ex nA II types of EX protection.



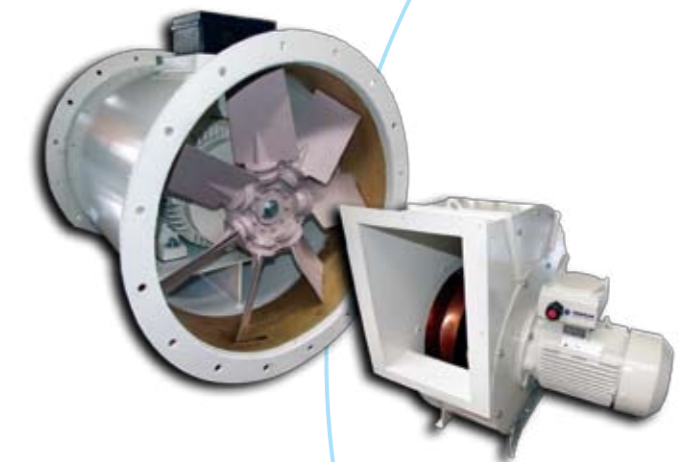
Axial and centrifugal fans

Our production of axial and centrifugal fans further widens our diverse product family. We are entering new markets with our development of air flow devices.

Product family of axial and centrifugal fans may be used for wide application in this field. Whole assortment is extensively applied in ventilation and cooling industry. Main design advantages are optimal efficiency, high air flow and low energy consumption.

We have many exhaust types, casing geometries and thicknesses, materials and rotor types available. Very flexible design and manufacturing line give us opportunity to meet any special demand of our customers.

| Our production program | | |
|------------------------|--|---|
| | Axial fans | Centrifugal fans |
| Size: | 315 – 1600 mm | 250 – 1120 mm |
| Characteristics: | Air flow up to 70 m ³ /s, static pressure up to 1400 Pa | Air flow up to 25 m ³ /s, static pressure up to 10000 Pa |
| Drive type: | Direct or belt drive | Direct or belt drive |
| Special design: | ATEX, for high temperatures, marine use... | ATEX, for high temperatures, marine use... |



Control system for anchor and mooring winches

Latest success of Končar MES R&D is production of control and protection systems for electric drives of anchor and mooring winches. Working together with shipyards and deck equipment manufacturers we have developed reliable and robust control system to expand our already wide range of motors for marine execution with complete solution for winches.

We have developed and delivered systems for automatic control and oversight of mooring rope tension. Systems are completely based on digital technology and in that fashion we have secured high accuracy, precision and safety in all working conditions.

