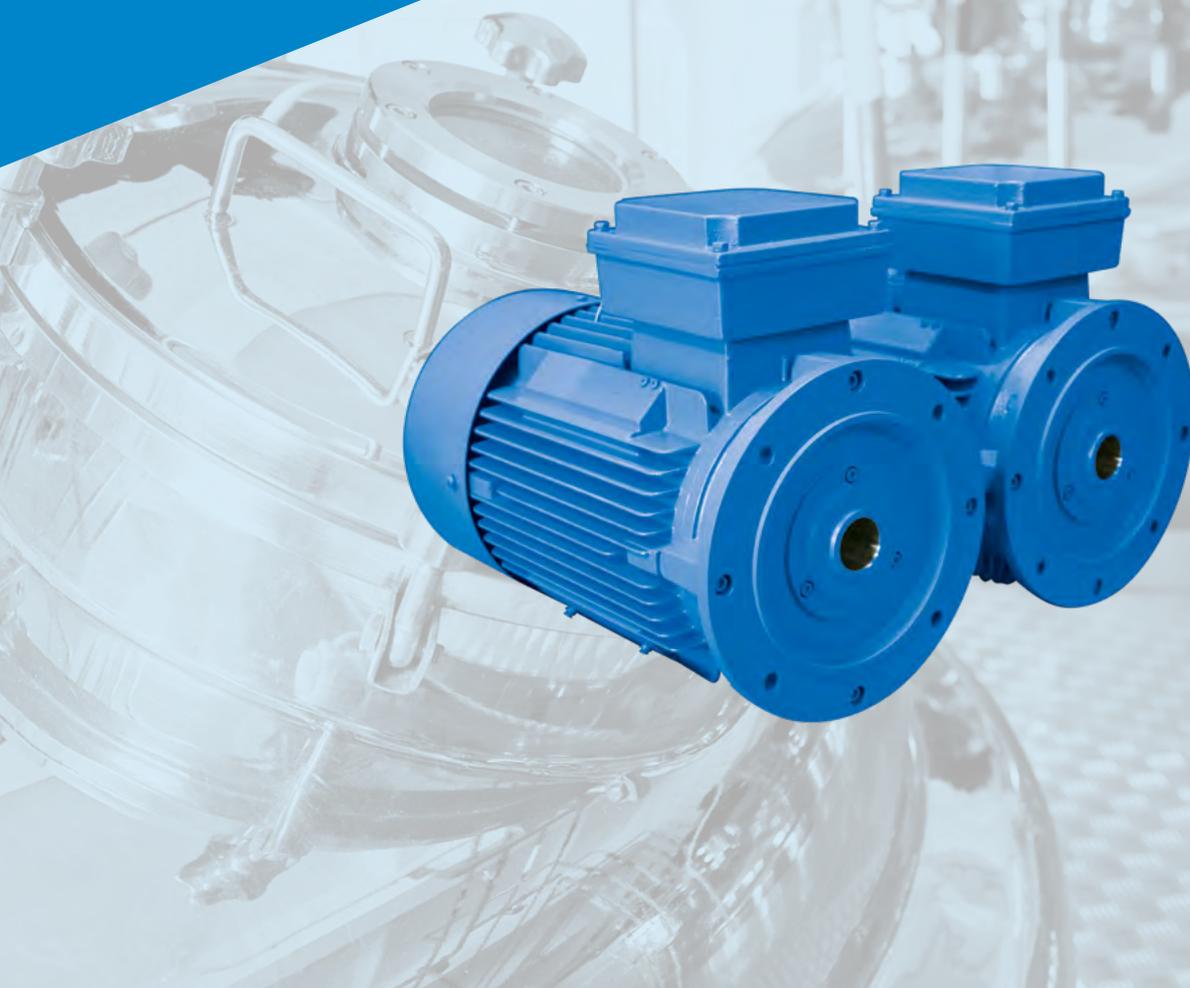


# KONČAR

MOTORS AND ELECTRICAL  
SYSTEMS



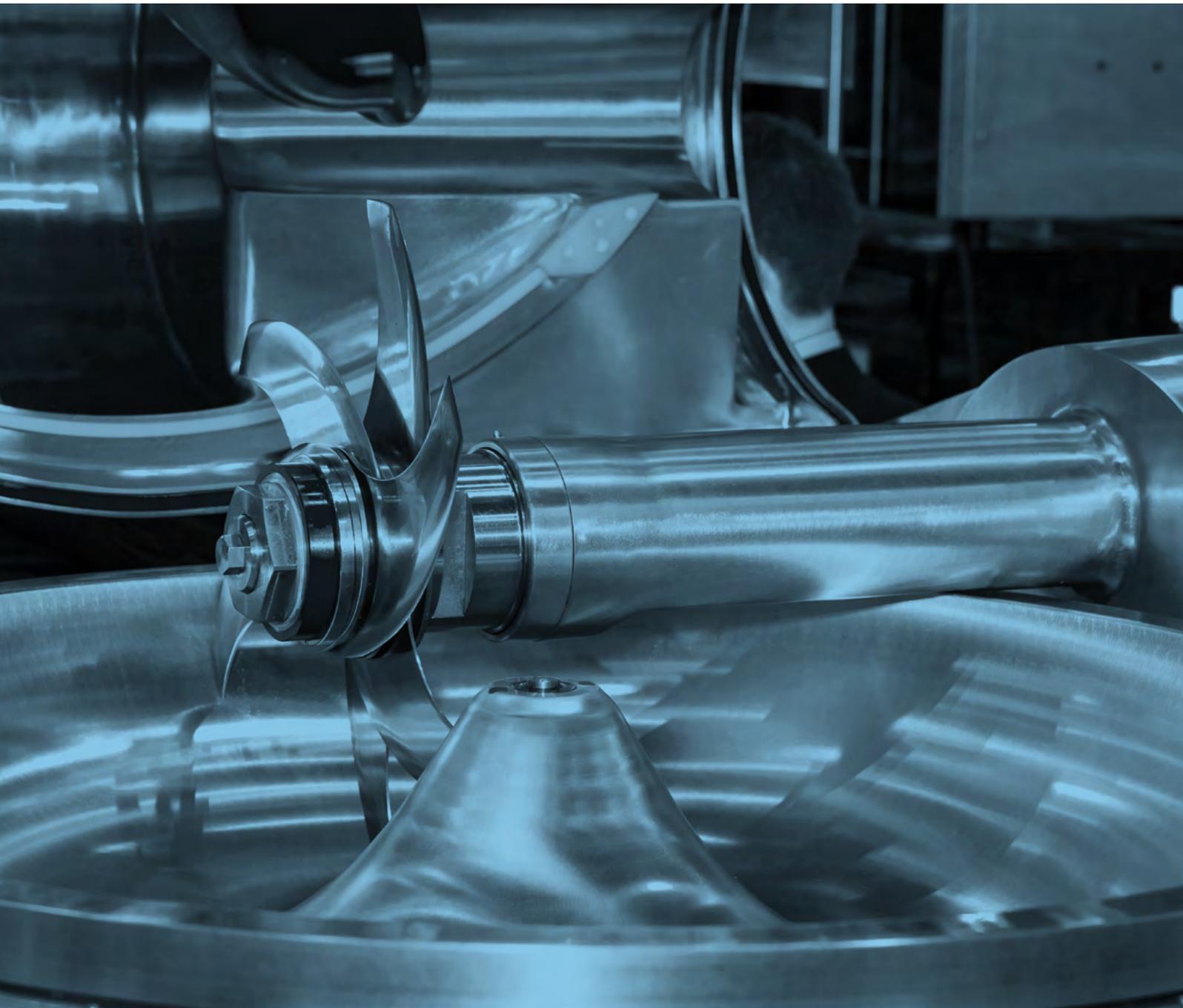
## **MULTI-PURPOSE ELECTRIC MOTOR FOR INDUSTRIAL APPLICATIONS**

**KONČAR-MES** has a comprehensive range of electric motors for mixing equipment. We ensure the best possible solution for the given process, choosing from our wide range of electric motors for mixers and agitators.

### WHY CHOOSE KONČAR-MES

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- ✓ **More than 70 years of experience**
- ✓ **Extensive references and knowledge in various process industries**
- ✓ **Knowing market-specific trends, requirements, and needs**



# CHARACTERISTIC

	Standard design	Option design	Motor possible accessories
<b>Motor series and frame sizes</b>	Asynchronous motor H5AZ 56-160 H7AZ 71-315	<ul style="list-style-type: none"> <li>Explosion protected motors</li> <li>Design with stainless steel and a special sealing system if any part of the motor is connected to the mixing components</li> <li>According to the customer's request, other versions are also possible</li> </ul>	<ul style="list-style-type: none"> <li>Thermal protection: 3PTC T150 (130) or 3TP T150 (130)</li> <li>Temperature monitoring of winding and bearing with PT100</li> <li>Winding heaters</li> <li>Encoder that allows monitoring the speed and controlling the rotation of the motor</li> <li>Vibration monitoring on DE</li> </ul>
<b>Mounting arrangements</b>	IM B3, B5, B35, B14 and B34 (last two available up to frame size 132)	Special bearing shields and flanges, special shafts	<ul style="list-style-type: none"> <li>Condensate drain holes</li> <li>Auxiliary terminal box</li> <li>Rain cover</li> <li>Electromagnetic safety brake</li> <li>Frequency inverter</li> <li>Posibility to offer gearbox for speed reduction</li> <li>Bearing for low/high temperature</li> </ul>
<b>Power range</b>	0,12-200kW	<ul style="list-style-type: none"> <li>Special motor power on request</li> <li>0,55-22kW available in synchronous reluctance motors</li> </ul>	<ul style="list-style-type: none"> <li>Reinforced bearings in case of large radial forces</li> <li>Fix bearing location on the drive side of the motor to prevent axial displacements</li> </ul>
<b>Duty type</b>	S1 (for ambient from -20°C to +40°C)	Other duty types	
<b>Voltage and frequency</b>	Standard input 400V/50Hz	Other voltages and frequencies possibility	
<b>Efficiency</b>	IE3/IE4	IE4/IE5 also available in synchronous reluctance motors	
<b>Protection index</b>	IP55	<ul style="list-style-type: none"> <li>IP6x if the components are solid particles and the container is open, i.e. IPx6 if the motor is exposed to splashing media or is installed outdoors</li> <li>IP56, IP66, IP67, IP68</li> </ul>	
<b>Motor cooling</b>	IC411	For mixers with variable rotation speeds, the need for forced motor ventilation should be considered - IC416	
<b>Insulation class</b>	F (rise in B)	H class, windings adapted for working environments with a high percentage of humidity	
<b>Colour tone</b>	RAL 5010 C3-m	Other RAL tones and painting systems; C4-m, C5-m and C5-h	

## TARGET APPLICATIONS

Find your perfect **KONČAR-MES** electric motor for high-quality industrial application (food, chemicals, cosmetics, pharma/biotech, biogas, paints and varnishes). In close collaboration with our R&D team, we enable you to finetune your process and guarantee the best possible results.

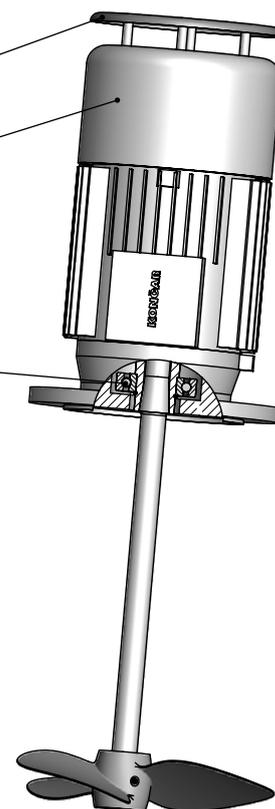
**KONČAR-MES** designs motors to your specific needs to comply with your required method of assembly or use, or by installing special equipment. By understanding the market, we strive to offer motor solutions tailored to fit our customers' individual needs.



Carnity cap for vertical mounting on open space

IC411 (TEFC), totally enclosed fan cooled

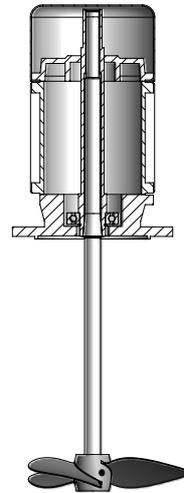
Fix bearing to prevent axial displacement



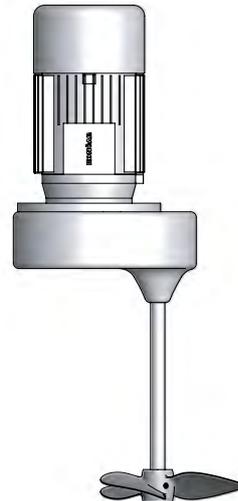
## BENEFITS FOR THE CUSTOMER

- ✓ **IEC standard**
- ✓ **High efficiency IE3/IE4**
- ✓ **Quality and reliable motors**
- ✓ **High quality materials**
- ✓ **The possibility of speed regulation**
- ✓ **The possibility of working at low motor speeds**
- ✓ **Adaptation to customer requirements**

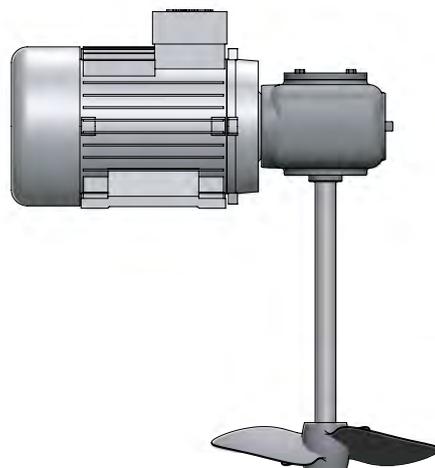
- Direct installation of the impeller through the hollow shaft of the motor enables a compact construction of the mixer (smaller length of the mixer)
- B5/V1 version
- Compact construction



- B5/V1 version
- Vertical installation via gear box



- B3 version with legs
- Horizontally mounted engine
- Attachment of the impeller through the gear box
- Suitable in case of limited vertical space



## EXPLOSION PROTECTED MOTORS

### For zone 1, 21:

- ✓ II 2G Ex db (eb) IIC T3/T4/T5/T6 Gb
- ✓ II 2D Ex tb IIIC T100/130/T160°C Db IP6x
- ✓ II 2G Ex eb IIC T3/T4 Gb
- ✓ II 2D Ex tb IIIC T90/T135/T160°C Db IP6x

### For zone 2, 22:

- ✓ II 3G Ex ec IIC T3, T4 Gc
- ✓ II 3D Ex tc IIIC T90/T135/T160°C Dc IP6x

If the medium is flammable, **KONČAR – MES** can offer explosion protected motors.

- Enables the safe operation of the motor in a flammable environment
- **KONČAR – MES** explosion protected motors are characterized by high quality materials, robust performance, high IP protection, bearings lubricated for life, a protective coating resistant to the effects of time and corrosion, and a high dielectric strength insulation system intended for operation via a frequency converter



## STAINLESS STEEL MOTORS



- Suitable for use in the food, pharmaceutical and chemical industries
- High degree of protection IP69K
- Special sealing system
- The smooth surface of the housing reduces the retention of a large number of bacteria and enables simple and thorough cleaning
- Motor resistant to washing under high pressure
- Power up to 1,5kW



**KONČAR - MES** is a European producer of electric motors with a long succesful history and high level of products' development and knowledge.



CESI-ATEX

# KONČAR

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SYSTEMS

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