

Brushless Servomotors

Direct-drive Motors

Torque Motors

High Torque Motors

Linear Motors

Axial-Field Servomotors

Frameless Kit Motors

Electric Vehicle Motors

Electric Generators

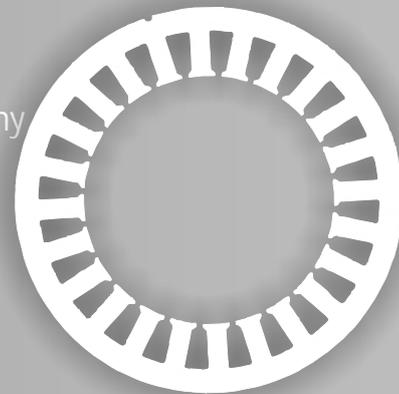
# Servomotors



# Servomotors

Icpe Servomotors has an experience of over 20 years in special electric machines design, development and production. We cooperate with many partners from all over the world.

The servomotors are designed and manufactured according to our own patents being the result of our research team innovative concepts.



## Products

### Brushless Servomotors



Brushless synchronous motors  
with high energy NdFeB magnets

#### Characteristics:

- Torque range from 0.1 to 30 Nm
- High demagnetization level
- Low ripple torque
- High torque to weight ratios
- Superior low speed performance
- Very low inertia

#### Options:

- Shaft with Keyway
- Fail safe brake 24V DC
- Shaft Seal Ring
- Additional Feedback Systems (Encoder)
- Protection Class IP 65
- Customised windings

### Direct-drive motors



Direct drive motors eliminate the need for gearboxes, worm-gear drives, or other mechanical transmission elements and enable a direct coupling of the payload to the drive. This enables a drive with high dynamic response without hysteresis.

0.1 Nm - 6000 Nm  
1 - 1500 N

### High torque motors



High torque density, low torque ripple, low cogging

2600 Nm peak torque, 580 mm outer diameter  
6000 Nm peak torque, 1092 mm outer diameter

Applications: direct drive of telescope or radar stations, rotary tables, indexing tables,

### Electric generators

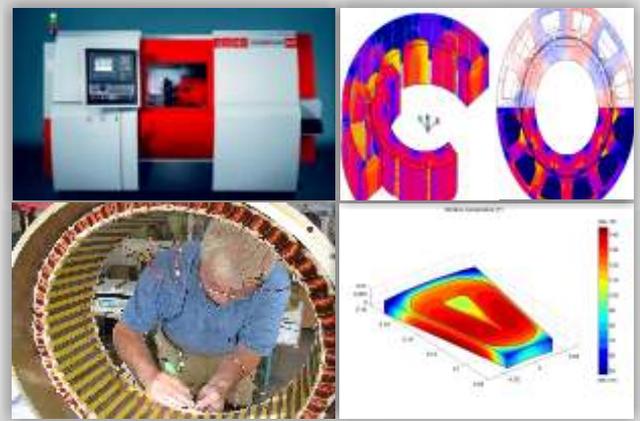


Permanent magnet brushless generators for wind or hydro applications

1 - 100 kW, 170 - 400 rpm  
NdFeB magnets  
High efficiency, low cogging

# Our Offer

High tech products  
New servomotor design  
FEM analysis, electromagnetic & thermal simulations  
Stress analysis  
Special motor prototypes  
Partnership in research projects  
Brushless servomotor/generator repairs



## Torque motors



NdFeB or SmCo magnets  
High magnetic poles number, low cogging, smooth operation  
Windings encapsulated in epoxy compounds  
Convection cooled or water cooled  
0.1 - 60 Nm

## Linear motors



Flat construction with iron core  
Bilateral, ironless motors  
Tubular motors/generators  
1 - 1500 N

## Axial-field servomotors



Permanent magnet axial field motors/generators in different configurations  
With iron core - one rotor, two stators  
Ironless - two outer rotor disks and one coreless stator in the middle  
1 - 40 Nm

## Frameless kit motors



Frameless kit motors allow direct integration with mechanical transmission devices  
Brushless synchronous motors  
Frame size: 35 - 254 mm  
24 VDC - 600 VDC

## Electric vehicles motors



Water cooled motors  
Integrated starter/alternator machines for hybrid vehicles  
In wheel motors  
Marine propeller with embedded electric motor



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