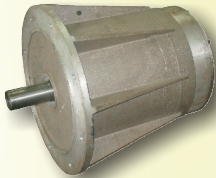
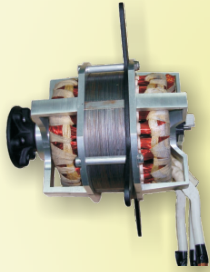


# DESIGN, DEVELOPMENT & MANUFACTURING of ELECTRIC MOTORS for VEHICLES and TRANSPORTATION



**Research and Development Centre of Electrical Machines KOMEL**  
PL 41-200 Sosnowiec, ul. Moniuszki 29, POLAND  
tel.: +48 32 258-20-41, fax: (032) +48 32 299-93-89  
e-mail: [info@komel.katowice.pl](mailto:info@komel.katowice.pl), [www.komel.katowice.pl](http://www.komel.katowice.pl)

# DESIGN, DEVELOPMENT & MANUFACTURING of ELECTRIC MOTORS for VEHICLES and TRANSPORTATION

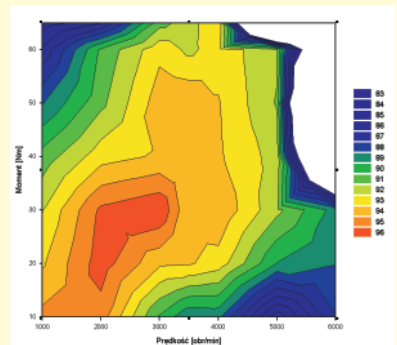
We design, manufacture and offer permanent magnet motors:

- brushless direct current motors (BLDC),
- synchronous motors (PMSM).

The motors are carefully tested at our laboratory.

Due to the cooperation with our partners we may deliver the whole drive set (battery, frequency converter & motor).

*Map of motor efficiency*



## Example of standard motors

max output power [kW]	5	8	25	30	55	130	200
constant power [kW]	2	3	15	20	30	50	130
voltage [V]	48	27	64	64	175	175	475
max torque [Nm]	25	31	55	80	80	300	365
max rpm [rpm]	2700	3000	6000	7000	7000	7000	7000
weight [kg]	11	7	40	42	45	100	110

**Research and Development Centre of Electrical Machines KOMEL**  
 PL 41-200 Sosnowiec, ul. Moniuszki 29, POLAND  
 tel.: +48 32 258-20-41, fax: (032) +48 32 299-93-89  
 e-mail: [info@komel.katowice.pl](mailto:info@komel.katowice.pl), [www.komel.katowice.pl](http://www.komel.katowice.pl)