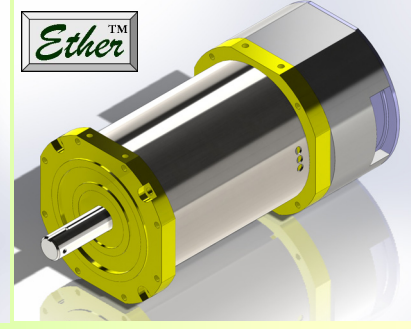
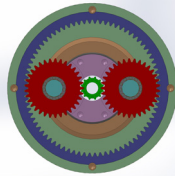


Servo Motors

Features:

- Various models offering upto 3 KW power output
- Rated speed of upto 6000 RPM
- Built-in DSP based 3 Phase Inverter power drive
- Can be configured with Planetary Gearbox
- Control can operate in both Position & Velocity Loop
- Optimum operating point efficiency of more than 85%
- ECAN interface (Optional)
- Dual RS485 communication for PC or Host Control
- Can be controlled with a Centralized controller



SN	Name	Config.	Power Source	Speed (rpm)	Torque (N-m)	Power (W)	Dimensions (mm)
1	Servo110D42A	8P 12S	300V DC	6000	2.5	1500	110 dia x 160L
2	BLDC110D84A	8P 12S	300V DC	6000	5.0	3000	110 dia x 200L
3	Servo110D48V	8P 12S	48V DC	6000	2.5	1500	110 dia x 160L
4	BLDC60S24V	8P 9S	24V DC	12000	0.15	150	60 x 60 x 70L

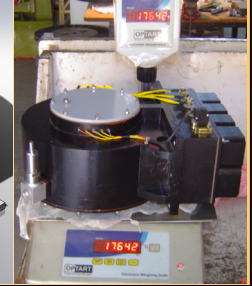
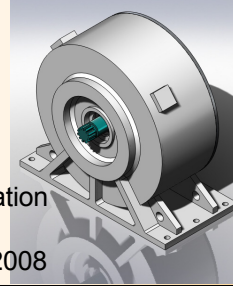
Applications:

- Robots
- CNC Machines
- Industrial Automation
- Wind Turbine for Wind Tunnels
- X, Y, Z Traverse Systems
- Rotary Table
- Blower

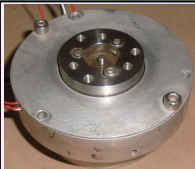
Note: Due to continuous innovation and improvements, specifications & colours are subject to change without any prior notice.

BLDC motor (12KW) with Integrated Control (For Aerospace applications)

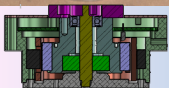
- Power 12KW, Torque 18 N-m, Mass 20.5Kg with 2.5 Kg coolant inside
- Operative on 130 to 160V DC
- Duration 16 minutes in vacuum
- Designed for Reusable launch vehicle to run hydraulic pump with load fluctuation of 0 to max, at 7 Hz response
- First prototype delivered to Indian Space Research Organisation in February 2008



BLDC Motor for Vacuum Operation



These motors are used for sputtering of chemical in controlled environment on the CD / DVD mounted directly on the motor by Moser Baer India Ltd.. It runs on 24 VDC at a speed of 550 RPM or 1500 RPM depending on configuration. Braking is required to stop the inertia wheel which is mounted between the disc and the motor which is provided when the motor is connected to 12 VDC.



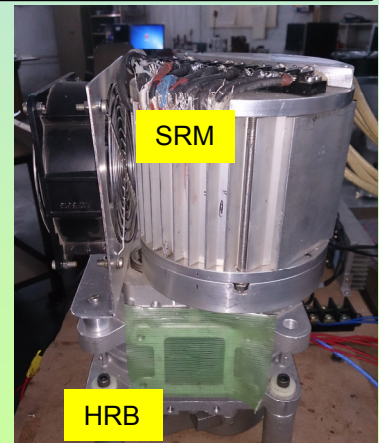
The motor is designed with a size constraint of $\Phi 76$ mm and height less than 35mm. The motor includes the electronics controlled via an on-board DSP. It monitors all the running parameters of the motor and operates to achieve best efficiency. For safety, it has in-built temperature & over current protection.

Customized SR Motor for Automotive Application

Specially developed & supplied to Tata Motors Ltd. for their upcoming Hydrogen Fuel Cell Bus. The motor is based on Switch Reluctance technology with DSP based Power Inverter Motor Drive Controller. The Control gives significantly improved performance due to high frequency of operation. Some of the salient features are:

- SR motor design 8/12 configuration suitable for hydrogen environment
- Compact Design of Motor & Control
- Controller allows variable speed operation based on ECAN interface
- Protections like Under Voltage, Over Voltage, Over Temperature

The motor is be operated on 24V DC. Motor gives 1.5 KW power continuously at shaft and its peak power is 2.5KW with Peak Torque 3Nm @ 8000 rpm. Interface is CAN 2.0 to monitor all parameters of motor and Control (Including Rotor, Stator, Drive Temperature, Speed, Input Power, Fault etc)



Technology for Hybrid Electric Kit for Rear Wheel Drive vehicles (Patent Pending) also available

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