

Date: - 24th May, 2023

BSE Ltd.	National Stock Exchange of India Ltd.
Regd. Office: Floor - 25,	Listing Deptt., Exchange Plaza,
Phiroze Jeejeebhoy Towers,	Bandra Kurla Complex, Bandra (East),
Dalal Street, Mumbai-400 001.	Mumbai - 400 051
BSE Scrip Code: 543300	NSE Scrip: SONACOMS

<u>Subject: - Disclosure of Investor Presentation under Regulation 30 of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 regarding entering high voltage Motor & Inverter Market</u>

Dear Sir / Madam,

This is in references of earlier investor presentation filed by the Company on 16th May, 2023 regarding "Sona Comstar entering high voltage Motor & Inverter Market". In this regard, the exchange has asked for the covering letter addressing to them, therefore the Company hereby again attaching the earlier investor presentation along with this covering letter for "Sona Comstar entering high voltage Motor & Inverter Market".

This is for your information and record.

Thanking you,

For Sona BLW Precision Forgings Limited

Ajay Pratap Singh
Vice President (Legal), Company Secretary and Compliance Officer

Encl: as above



Entering High Voltage Motor & Inverter Market

16 May 2023

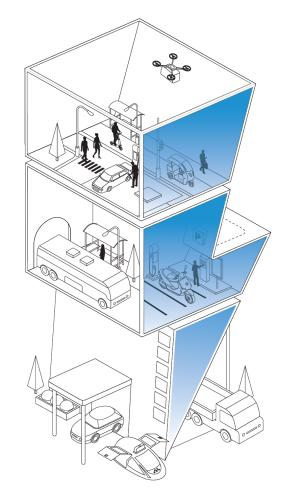
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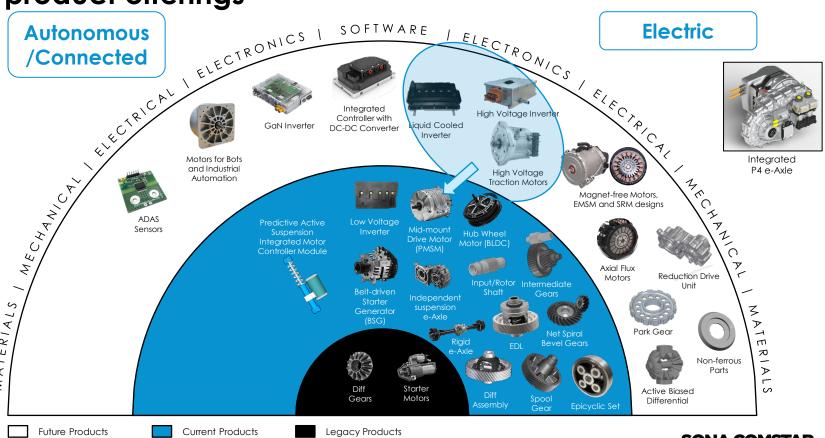
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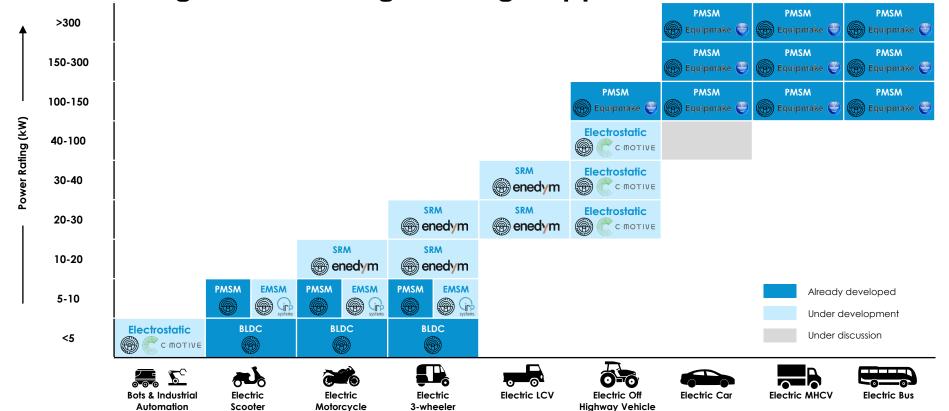
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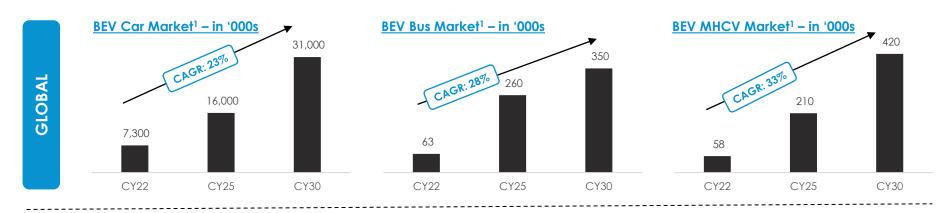
We are adding High Voltage Traction Motors and Inverters to our product offerings



In partnership with Equipmake, we are covering all the major vehicle segments with high-voltage applications

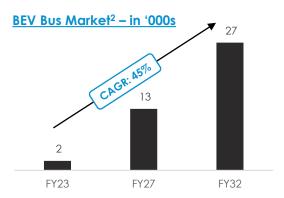


Both Global and Indian BEV markets with high-voltage applications have strong growth projections









Data Sources:

1. IEA (2023), Global EV Data Explorer, IEA, Paris https://www.iea.org/data-and-statistics/data-tools/global-ev-data-explorer
2. CRISIL – Electric Vehicle Ecosystem Report

Equipmake is one of the few high-voltage motor makers and their motors are amongst the best in the world in power density

HTM - 3500

Power : 400 kW
Torque : 3,500 Nm
Speed : 3,500 rpm
Weight : 195 kg

Size : 540 mm (dia) x 251 mm (w)

x 607 mm (h)

Configuration: Single or Coupled

Inverter : With or without Inverter Application : Electric Buses and HCVs



APM - 200

Power : 220 kW
Torque : 450 Nm
Speed : 10,000 rpm
Weight : 40 kg

Size :318 mm (dia) x 247 mm (l)

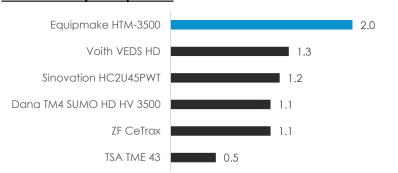
Configuration: Single or Coupled

Inverter : With or without integrated

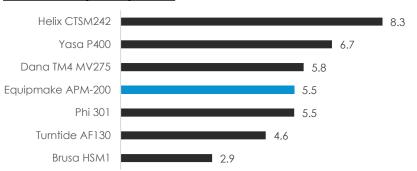
inverter and/or gearbox

Application : Electric Cars, MCVs and Tractors

Power Density Comparison¹

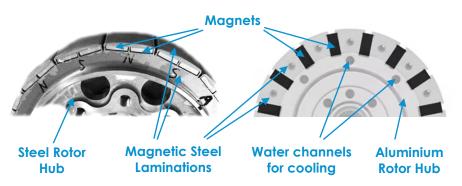


Power Density Comparison¹



Equipmake's spoke motor architecture is a proven technology which is validated on road

Conventional Architecture vs Spoke Motor Architecture



<u>Advantages of Spoke Architecture and Patented Rotor Design</u>

Aluminium Rotor Hub

Non-magnetic and cost-effective for manufacturing

Effective Rotor Cooling

Integrated water channels for cooling; Increases specific performance; Can use low-cost magnets

Concentrated Winding

Automated winding process for low-cost stator manufacturing

Effective Use of Magnets

Reduction in magnet material results in high torque density and low magnet cost

Tested and Delivered this technology to multiple customers





First Group (UK)

Repowered 12 buses for First Bus; Secured another order for repower of a double-deck bus

London Routemaster Launch of customer trials of an Equipmake converted fully-electric London Routemaster

Emergency One (UK)

Delivered bespoke EV drivetrains for Emergency One Fire Trucks; Secured further orders from them

Agrale (Argentina)

Zero-emission powertrain fitted bus completed preservice trails and started in-service trials in Nov-22

European Electric Hypercar

Long-term contract to supply ASIL-D compliant motor drive inverter

Equipmake has a strong pedigree and history of innovation



Ian Foley Founder & Managing Director

A highly-experienced engineer who has worked in global motorsport at the highest level – from Le Mans to Formula 1

>20 years

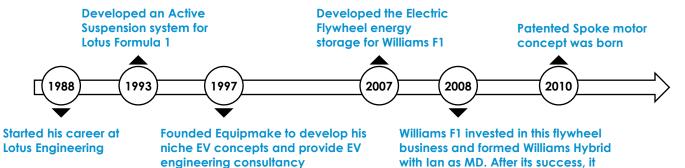
of experience in developing and integrating industry-leading innovative electric powertrains

with Ian as MD. After its success, it

was purchased by GKN in 2014

70 employees

allowing Equipmake to continue innovating and developing new products



Since then Equipmake has developed various motors and inverters and validated their technology with multiple electric bus makers and a leading European electric hypercar player

Scope and Terms of our Licensing Agreement with Equipmake

Products Covered

EV Powertrains with power output between 100 kW to 440 kW

- HTM 3500 motor and inverter, and its variants
- APM 200 motor and inverter, and its variants

Target Applications

- Electric passenger cars
- Electric passenger buses
- Electric commercial vehicles
- Electric off-highway vehicles including tractors

Scope of Design, Sales & Manufacturing

- Equipmake will provide the validated design of the products
- Sona Comstar has exclusive rights to sell these products in the licensed territory of India, Thailand, and select South Asian markets
- Sona Comstar will manufacture the products in India and supply them to its customers in the licensed territory and to Equipmake for other markets

License Fee & Royalty

- One-time fee for each motor
- · Variable royalty payment

Target SOP

Production is targeted to start in 2025



Data Sources for Motor Specs for Power Density Calculations

- 1. Voith VEDS HD https://d2euiryrvxi8z1.cloudfront.net/asset/445934742530/4d5e2414c0d9405f69e0ec1f1715fe32/vt2533-english.pdf
- 2. Sinovation HC2U45PWT-MRA https://www.sinovation-ev.com/12m-coach-platform
- 3. Dana TM4 SUMO HD HV3500-9p https://www.danatm4.com/wp-content/uploads/2019/04/TM4-SUMO-HD Dana-TM4.pdf
- 4. ZF CeTrax https://www.zf.com/public/org/Product-Datasheet CeTrax EN 78313.pdf
- 5. TSA ROAD-Motor TME 43-33-6 https://www.tsa.at/tsa_referenzen/solaris-trollino-metrostyle-for-salzburg/
- 6. Helix CTSM242-LV https://ehelix.com/products/ctsm242-electric-motor/
- 7. Yasa P400 https://www.yasa.com/wp-content/uploads/2018/01/YASA P400 Product Sheet.pdf
- 8. Dana TM4 MV275 https://www.danatm4.com/products/electric-motors/mv275/
- 9. Phi 301 https://www.phi-power.com/wp-content/uploads/2018/01/Phi301-Spec Sheet-V1.2.pdf
- 10. Turntide AF130 https://turntide.com/wp-content/uploads/2022/10/Tradeshow-Component-Datasheets.pdf
- 11. Brusa HSM1-10.18.22 https://www.brusa.biz/wp-content/uploads/2021/08/101 Datasheet EN HSM1-10.18.22.pdf