OLI eBike Systems Training Course 2019

OLI spa
eBike Systems Division

Training Course
OLI eBike expert

OLI eBike Systems

eBIKE

OLI eBike Systems is a division of OLI SPA specialized on **Designing and manufacturing complete eBike systems**.

LEADER

OLI spa is # 1 Worldwide Leader in heavy industrial shaker motors, including # 18 owned distribution centers around the world and # 3 manufacturing facilities.

ESPERIENZA

OLI eBike Systems blends **60 years of OLI experience** on shakers motors & gears with 10 Years of R&D and designing experince of a team of enginneers on eBike

PRIMATO

OLI started engineering, producing and selling eBike drives in 2015, **first in Italy**.

OLI, worldwide leader

OLI Group is leader in shaker motor technolgy with sales/service centers all over the World.

Product Range OLI spa

Industrial vibrators

- Industrial Shaker Motors

Flow aids

- Pneumatic impactors
- Flow aids for silos/hopper

Concrete consolidation

- Internal concrete pokers

Industries

- Construction
- Heavy Industry
- Food
- Chemical
- Alternative energy sources
- OIL & GAS
- Environment

OLI key values

HIGHLY SPECIALIZED SALES TEAMS

Deep knowledge of applications

STOCK AVAILABILITY

Stock in each country

GLOBAL NETWORK

OLI branches to provide market coverage.

OLI Divisions in the World

Worldwide specialized sales network

1. OLI Italy
2. OLI Australia
3. OLI Benelux
4. OLI Brasil
5. OLI China
6. OLI France
7. OLI Germany
8. OLI India
9. OLI Malta
10. OLI Middle East
11. OLI Nordic
12. OLI Russia
13. OLI South Africa
14. OLI Spain
15. OLI Thailand
16. OLI Turkey
17. OLI Uk
18. OLI Usa

Showroom

70 MILIONI € — OLI Spa **turnover** 2018

10.000 + — Global Active **Customers**.

280.000 + — **Motovibrators** produced in 2018

60 + — **Countries** covered by OLI direct sales Network

100.000 + — **Pneumatic** Impactors Produced in 2018

16 — **New divisions** opened between 206 and 2018

OLI eBike Systems

Range of Drives on OLI eBike Systems

OLI eBike Systems

MOVE PLUS

SPORT

Plus of OLI eBike Systems

SMOOTH	Extremely smooth action.
QUIET	Top of the range quiet performance
NATURAL	Thanks to the high quality torque sensor .
POWERFUL	Excellent torque already generated at low rpm.
Built to Last	Robust components
EFFICENT	Low energy consumption thanks to the high quality e-motor.
WARRANTY	3 years warranty
CERTIFIED	Certified to EN 15194/2017.
SUPPORTED	Dedicated customer care (Pre and After-Sale)

Power (Watt) Tests carried out by VELOTECH.DE laboratory of the most popular eBike brands Drives

OLI eBike Systems

Abbildung 13

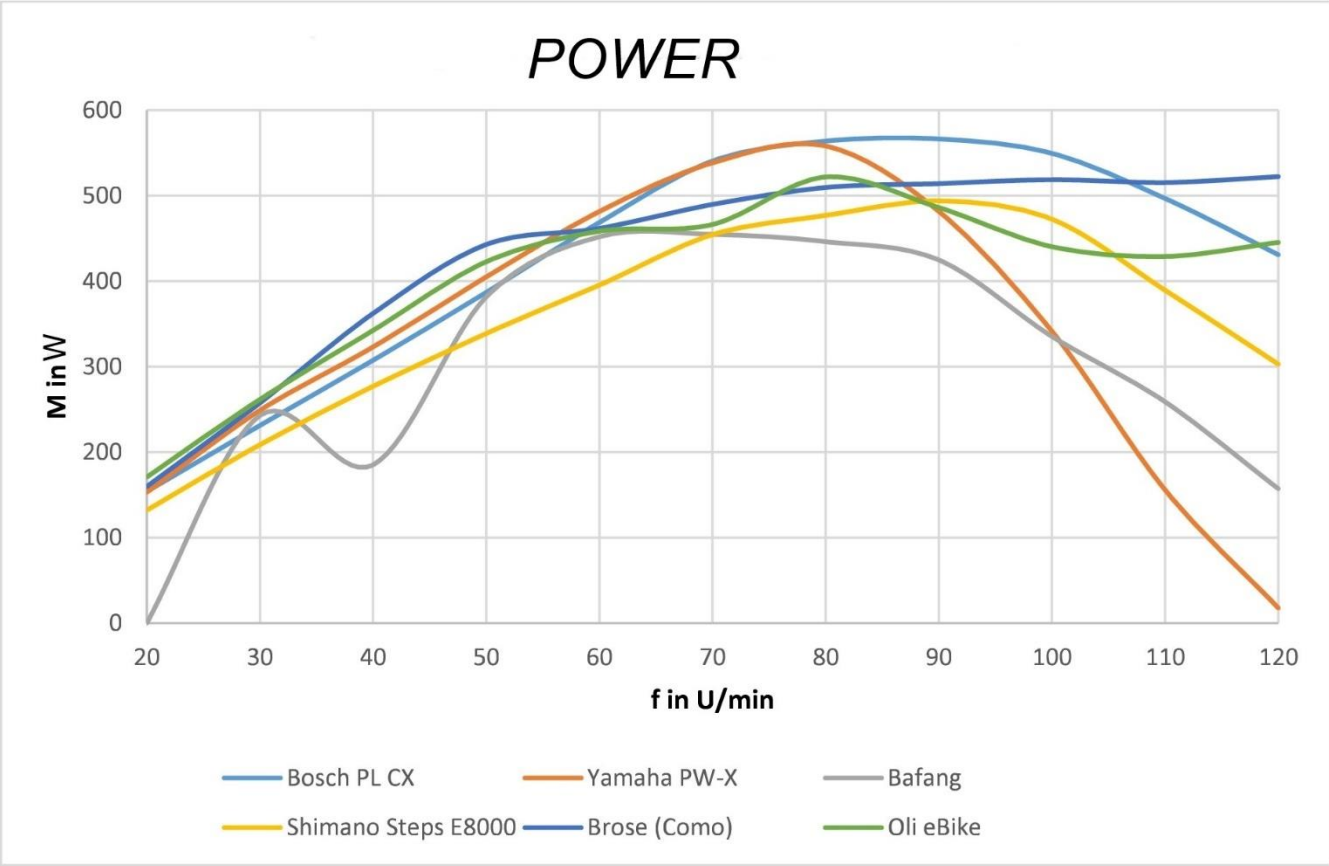


Abbildung 14

Torque (Nm) test by VELOTECH.DE laboratory of the most popular eBike Brands in the market (Nm & Rpm)

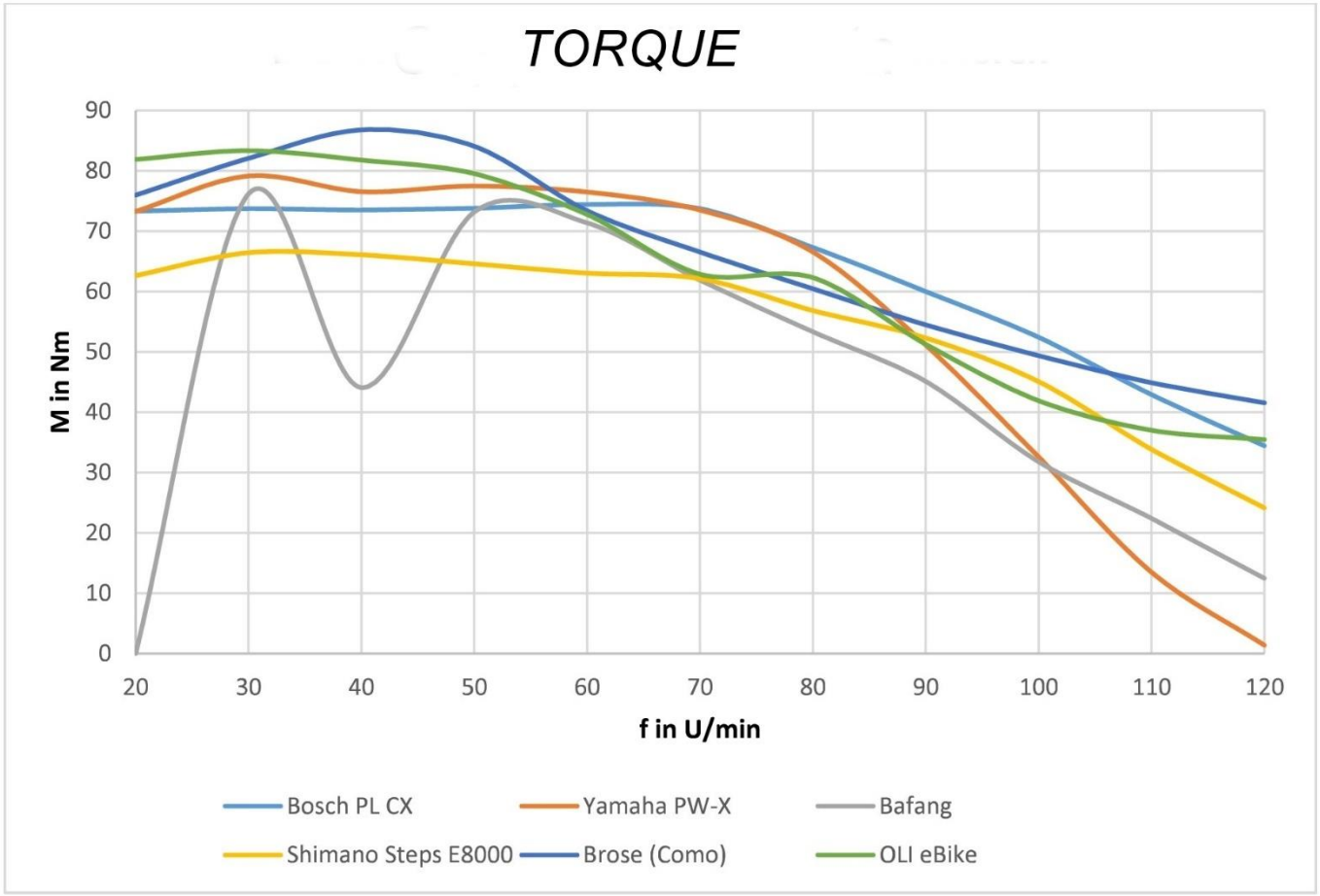
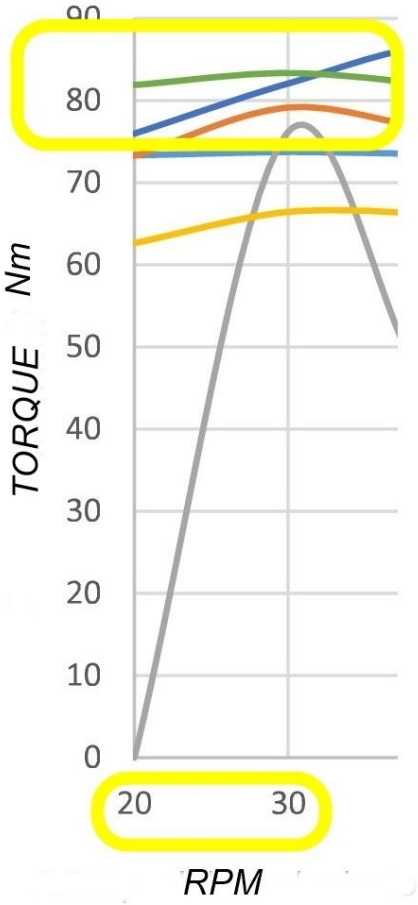


Abbildung 13

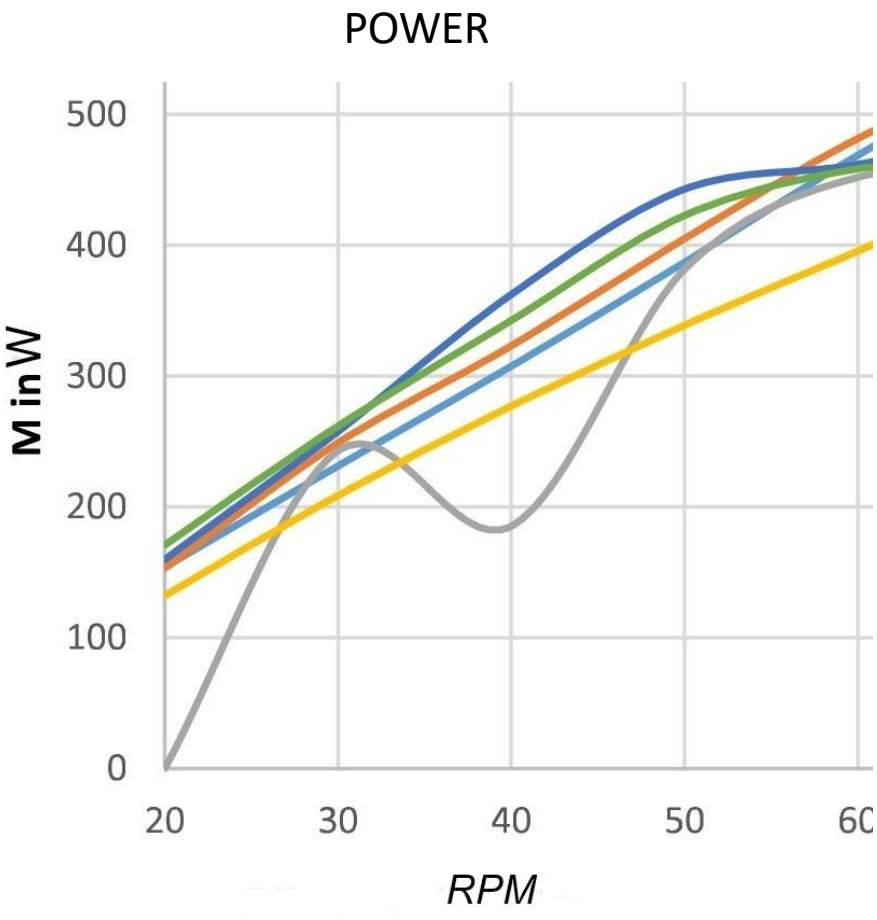
Torque available, when the eBike is steady, stopped, and we need to start riding.



The diagram shows that OLI eBike Systems generates the highest torque of all systems tested during the very first pedal stroke, from 0 to 30 Rpm (revolution per minute)
This means that OLI eBike Systems offers the easiest start than anybody else.

- On the e-city bikes, this translate into easy start even when the chain is left on the smallest gear of the cassette.
- On the e-mtb this means being able to start climbing , from standstill, on and above 35% - 40% degree inclination walls!
- On the cargo bikes, our system provides extra help when extra loaded and or staring the ride on a climb.

Potenza meccanica disponibile nella fase di maggior utilizzo delle e-bike Power - W



This graph shows that OLI eSystems supplies the highest power (W) within the e-Drive tested tested during he most typical range of Rpm used on e-Bikes , between 20 to 60 Rpm.

This in practical terms means enjoying an easier start and following smooth speed progression with less effort compared to other brands.

Furthermore, there will be less demand to operate on the shifter making the ride more enjoyable, more fluid, more accessible to a wider range of biking appetites. The OLI e-Systems high Power performance is particularly appreciated in the following e-bike:

- e-City
- e-Trekking
- e-mtb
- e-cargo

Torque (Nm) and Power (Watt) available at higher rpm – This is typically experienced with e-mtb when extra torque and watts are required to overcome an obstacle, a steep wall.

Abbildung 13

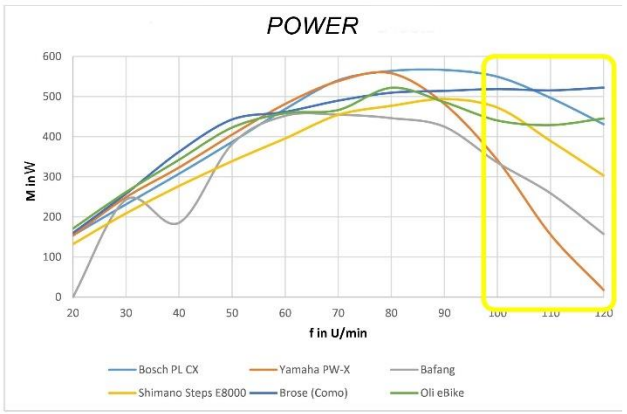


Abbildung 14

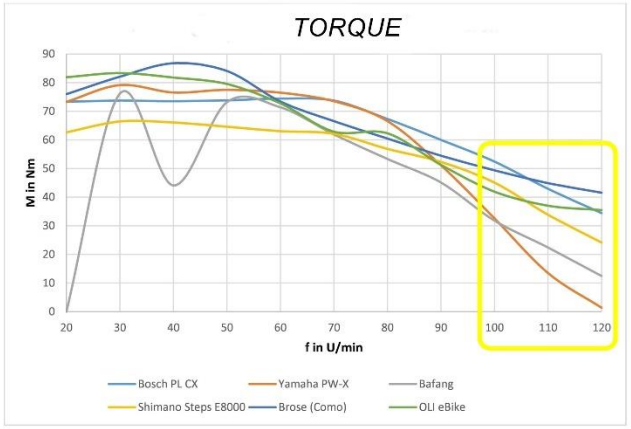


Abbildung 13

The chart shows how OLI eBike Systems supplies high torque and power even at high rpm (above 100 rpm).

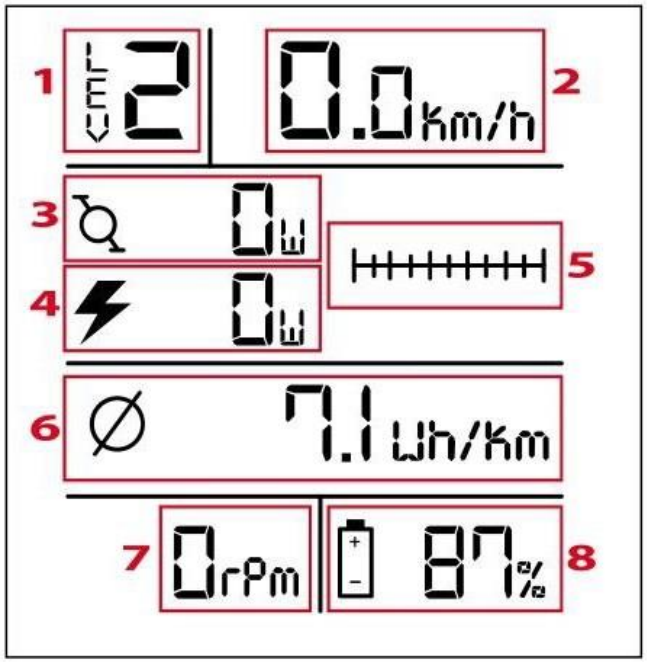
This performance is engineered specifically to overcome obstacles, typical in the Mtb world, like big rock, roots, or sharp steep climbs. With our e-systems the rider is not forced to operate on the shifter but she/he simply needs to increase the cadence: the e-systems will immediately supply all the assist required without dropping any power and maintaining the momentum and fluidity = less effort & more fun!

This unique performance is achieved via the quick and precise feedback to the computer from the top quality torque sensor installed.

Advantages of OLI e-Bike Systems when starting from standstill on e-cargobike compared to Bosch.

- Easy start : OLI reacts immedialtely , as soon as the pressure is applied on pedals. Bosch requires the rotation of the crank (1/8 of a rotation)
- OLI performs 10Nm more than Bosch (see Velotech chart)
- OLI is quieter
- Oli can install 30T chainring. Bosch has a different gear system and uses a 14T custom chainring which equals to a traditional 35T (BCD 104) . There is a definite difference starting from standstill using 35T chainring versus 30T chainring.
- Built strong : the gear box has mechanical components made to last. Bosch max suggested load is 250Kg. OLI Max suggested load is 300Kg.
- OLI E-Systems «Lazy-Mode» option reduces the effort required for the e-cargo bike

Control panel setting: Race mode. This enables access to performance data useful during the ride.



1 – Assist level (from 1 to 5)

2 – Speed (km/h – ml/h)

3 – Watt (instant) used by the rider

This information is generated from the sensor located in the drive and has the same high precision found in similar torque meters installed by demanding avid bikers and pro riders

4 – This shows the Output power (Watt) of the drive

5 – Power display (Watt) – same as point # 3 and # 4

6 – Average consumption Wh/km

This enables some planning of the trip. Dividing the capacity of the battery by the actual average consumption (Wh by Km) we can estimate how to adjust our effort to complete the entire ride and not run out of battery energy. Dividing the energy of the battery by the average consumption we will obtain a good measure of the possible max distance per each battery charge

7 – Rpm (rotation per minute)

8 – Resiudual battery energy left (%)

AssDirect Assistance

Specialized Customer service.

Direct Phone line:
+39 0547 318 322

Dedicated e-mail:
customerservice@oli-ebike.com

Possibility to interact directly with dealers
(with the manufacturer (OEM) approval)

Accurate reporting in case of returns

Service, repairs, within 5days max

Product Range 2019 OLI eBike Systems

OLI
eBike Systems

Product Range 2019

MOVE

Charatteristics

- **Coppia max:** 50 Nm
- **Potenza max:** 250 W (max 550 W)
- **Cadenza max:** 105 rpm
- **BB Interfaccia:** Bosch compatible
- **BSD** mode

>**LAZY** mode

> **Integrated gear**: Compatible

Product Range 2019

MOVE PLUS

Characteristics

- **Max Torque:** 80 Nm
- **Max Power:** 250 W (max 650 W)
- **Cadence max:** 120 rpm
- **BB Interface:** Bosch compatible

> **ZERO EFFORT** mode
> **INTEGRATED POWER METER**
> **BSD** mode
> **LAZY** mode
> **Integrated gear**: Compatible

Product Range 2019

SPORT

Characteristics

- **Max Torque:** 85 Nm
- **Max Power:** 250 W (max 720 W)
- **Cadence max:** 130 rpm
- **Interface:** OLI proprietory design
- Optional installation @ **40°** angle

> **ZERO EFFORT** mode
> **INTEGRATED POWER METER**
> **BSD** mode
> **LAZY** mode
> **Integrated gear**: Compatible

Product Range 2019

ZERO EFFORT mode

Starting from standstill: never been so easy.
No rotation of the crankset is requested, the drive will activate with a simple prerssure on the pedals

INTEGRATED POWER METER

Easy access to the data on the display, showing biker and e-drive output power (Watts)

BSD mode

Battery Self Diagnostic battery performane data is easily accessible.

LAZY mode

Full Drive Power easily accessible at a touch of the button

Batteries available

SF06S

Characteristics

- **Frame type**
- **50 cells**
- **Tension:** 36 V
- **Capacity:** 11,6 Ah or 14,5 Ah
- **Weight:** 2,9 Kg

Made by PHYLION

Batteries avaiable 2019

BN18

Characteristics

- **Integrated type**
- **40 cells**
- **Tension:** 36 V
- **Capacity:** 14 Ah
- **Weight:** 2,8 Kg

Made by PHYLION

ADDED VALUE TO THE CUSTOMERS

Availability	Stock availability.
LOGISTICS	Oli Offres logistics support to customer’s manufacturing site
KANBAN SYSTEM	OLI Offers KANBAK System to support manufacturing sites
WARRANTY	**3 years warranty** on the E-drive System
EXPERIENCE	10+ years experienced team of customer support to handle customer care.

ADDED VALUE TO THE CUSTOMERS

PHYLION Partnership with **Phylion Battery Co., Ltd**.

Complete warranty OLI offers full warrany to the **complete E-System** (drive unit + display + Phylion battery).

EXCLUSIVITY UE OLI is the exclusive **Phylion Battery Customer Service** for Europe.

Vantaggi per i clienti

CUSTOMIZATION	Possibility to **customize any components**.
PRODUCTIVITY	**Industrialized production system:** possibility to increase manufacturing output quickly
CERTIFICATIONS	Certified according to **EN 15194:2017 EEC**.
PRICES	**Very competitive** in the market place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