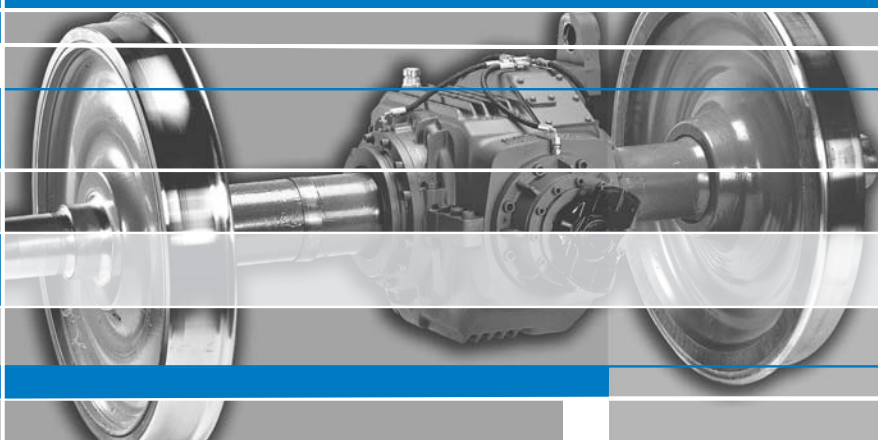




OMSI Trasmissioni S.p.A.

Railway units



**Railway axles and transmissions
for rail maintenance vehicles**

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=



OMSI Trasmissioni S.p.A.

Since 1959



OMSI Trasmissioni S.p.A. was founded in 1959 and today is the leader in application studies and development of custom mechanical drives including:

SPLIT SHAFT AND ENGINE POWER TAKE-OFFS

Used in sewer cleaning machines, concrete pumpers, fire fighting vehicles.

COMBINED DRIVE GROUPS - MECHANICAL / HYDROSTATIC

Used in street sweepers, street flushers, airport support equipment.

AXLES, TRANSMISSIONS AND GEARBOXES

Used in agricultural and industrial machines.

RAILWAY TRANSMISSIONS

Used in railway maintenance vehicles.

OMSI Trasmissioni S.p.A. is structured with internal systems for the design and planning, production and process controls; guaranteeing manufacturing flexibility and assuring constant quality levels. The company's philosophy is strong on its research and development and continuing improvement of its product line.

OMSI's quality

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=

The company has been certified as UNI EN ISO 9001 compliant since 1993 and updated to the new norm of UNI EN ISO 9001:2000 in 2003.

OMSI's world



OMSI in the world



Railway axles and transmissions

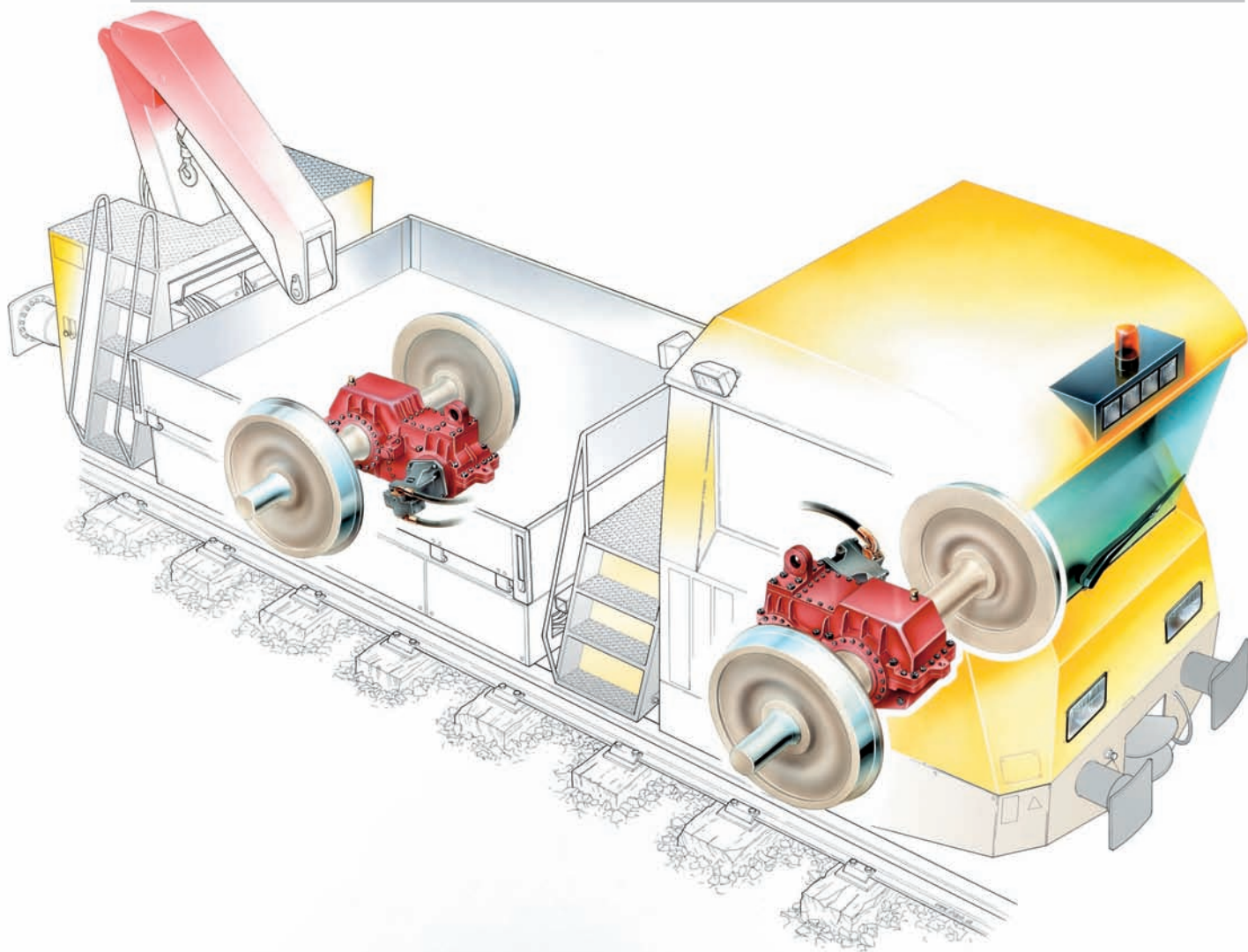
OMSI Trasmissioni S.p.A. designs and manufactures transmissions drives for railway equipment. Design analysis are performed based on customer specifications for the manufacture of various types of gearboxes configured as follows:

- Conical pinion with perpendicular input to the axle.
- Integral transfer case with single input and dual output drive option.
- Cylindrical gears with parallel axis.
- Mounting flanges for direct coupled hydrostatic motors.

The variety of transmissions and gearboxes included through the line of production gives OMSI Trasmissioni S.p.A. the flexibility to provide transmissions for vehicles with hydrostatic, electrical or mechanical drive systems, also with railway bogies configuration.

The vast range of railway gearboxes of OMSI Trasmissioni S.p.A. satisfies the requirement of different applications, including:

- Various drive ratios available.
- Capacity from 30 to 250 kN per axle.

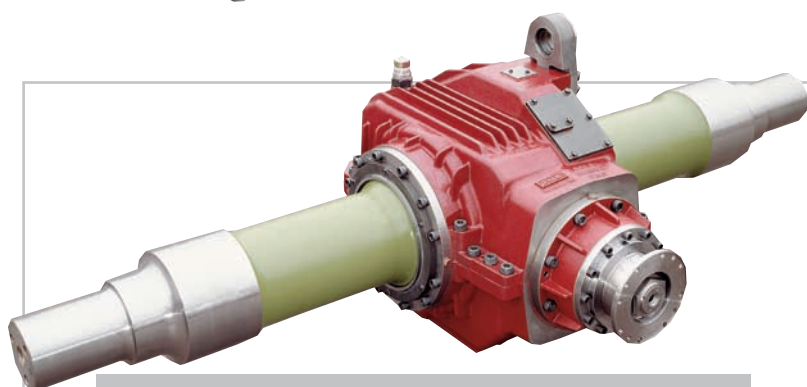


Know - How

OMSI Trasmissioni S.p.A. have the capabilities to develop calculations and design of railway axles according to specific international railway norms. In addition, duty life calculations of major drive components can be provided upon request.

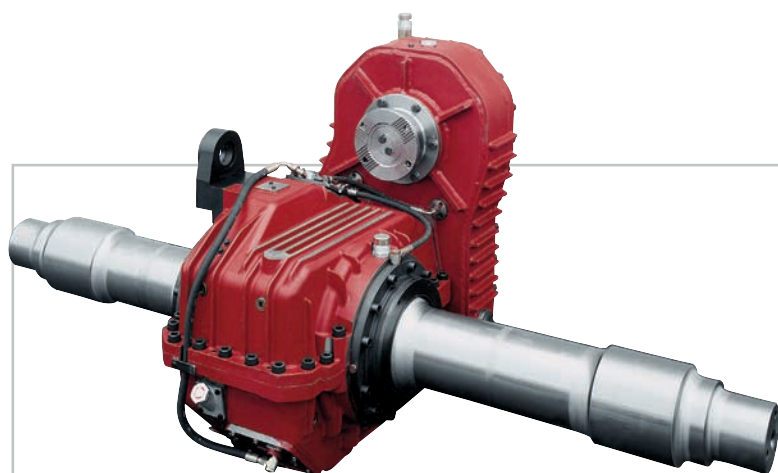
Complete supply

OMSI Trasmissioni S.p.A. is able to furnish the complete assembled unit (gearbox, axle, wheels and journal boxes)



GRF-22.5

Max output torque	50.000 Nm
Range of drive ratios	3,07 - 5,625



GRF-20TR

Max output torque	45.000 Nm
Range of drive ratios	3,65 - 6,76



Railway axles



GRF-16

Max output torque	41.000 Nm
Range of drive ratios	3,36



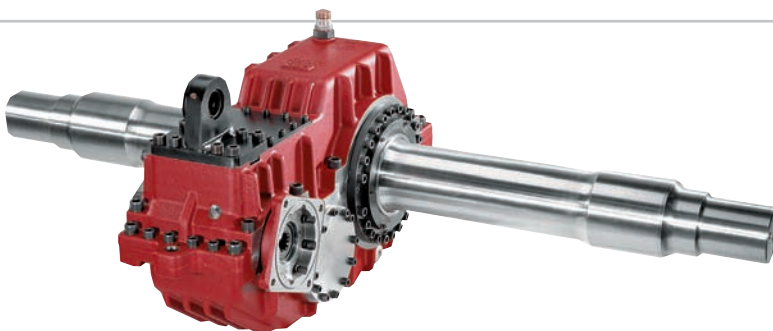
GRF-10

Max output Torque	32.000 Nm
Range of drive ratios	3,66 - 5,87



GRF-09

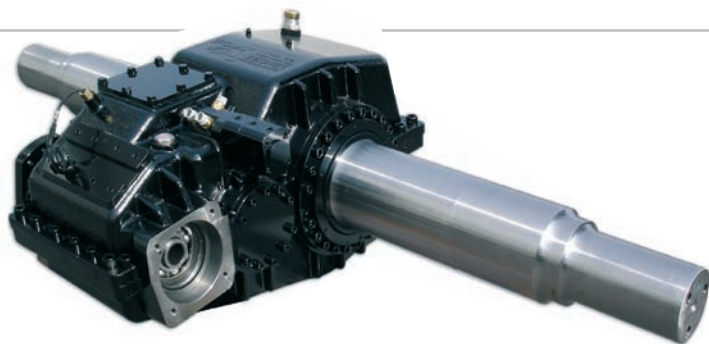
Max output torque	12.000 Nm
Range of drive ratios	3,36 - 4,87



FAP-200

Max output torque	25.000 Nm
Range of drive ratios	5,15 - 7,86





FAP-200-2V

Max output torque	35.000 Nm
Range of drive ratios 1° speed	7,8
Range of drive ratios 2° speed	21,1

Mechanical transmissions and hydrostatic drive

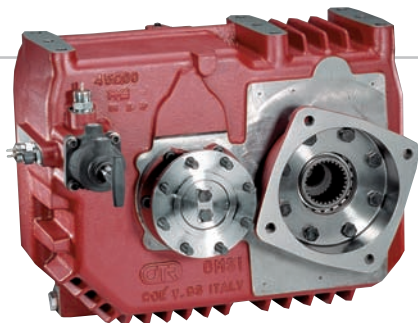
OMSI Trasmissioni S.p.A. could provide you with assistance through the design and project development for specifications and selection of hydraulic components and controls for your hydrostatic drive machine.

In addition, there are systems available with speed reducers between the power shift and railway gearbox in order to allow the propulsion of the vehicle in mechanical and hydrostatic/electrical modes alternatively.



Hydrostatic drive unit RPM 15/3000

Torque-mechanical transmission	30.000 Nm
Torque-hydrostatic drive	11.000 Nm



Two speed gearbox C152.2

Max output torque	6.000 Nm
Range of drive ratios 1° speed	1,17 - 2,21
Range of drive ratios 2° speed	3,53 - 5,56

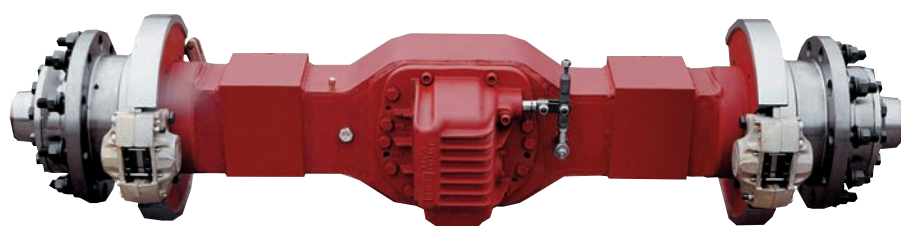


Railway axles for road/railway vehicles

Applications

These groups are operated by hydraulic motors and they are used in vehicles with combined requirements of road or railway drives. They can be developed with railway drive design or conventional axles configuration.

The technical advantage of these groups is to permit regular road vehicles to operate on a railway system.



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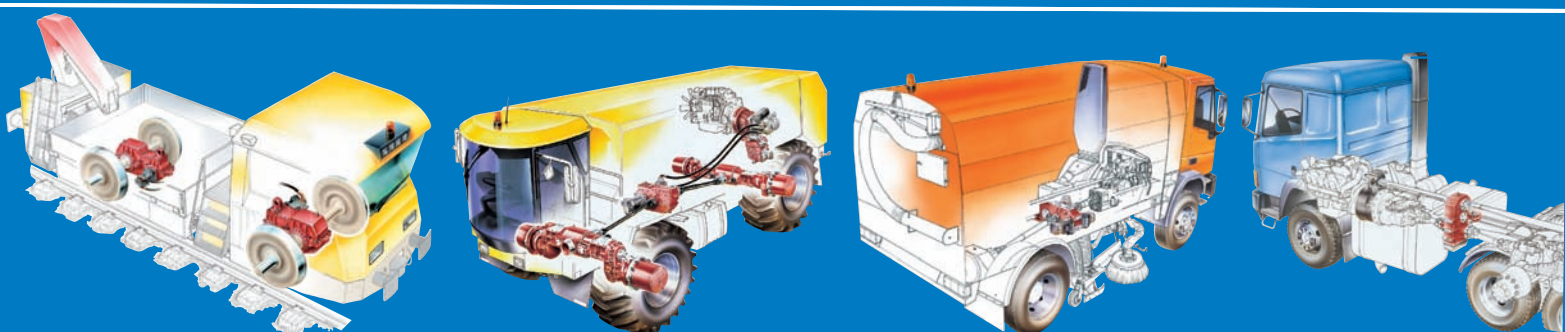
Max output torque	4.000 Nm
Range of drive ratios	6,25



GRFK

Max output torque	4.500 Nm
Range of drive ratios	4,96 - 7,5





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