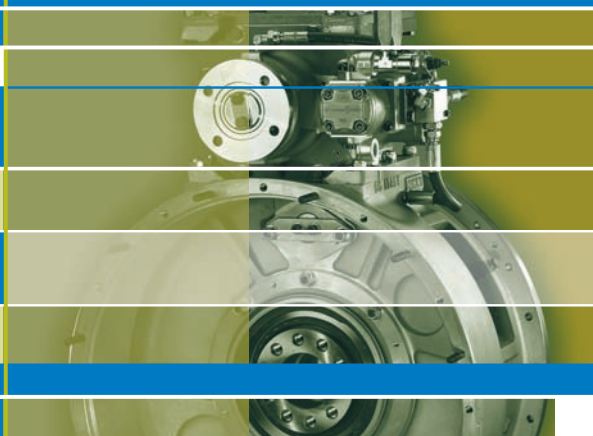




OMSI Trasmissioni S.p.A.

Power take - offs



**Split shaft and engine driven
power take - offs**

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.

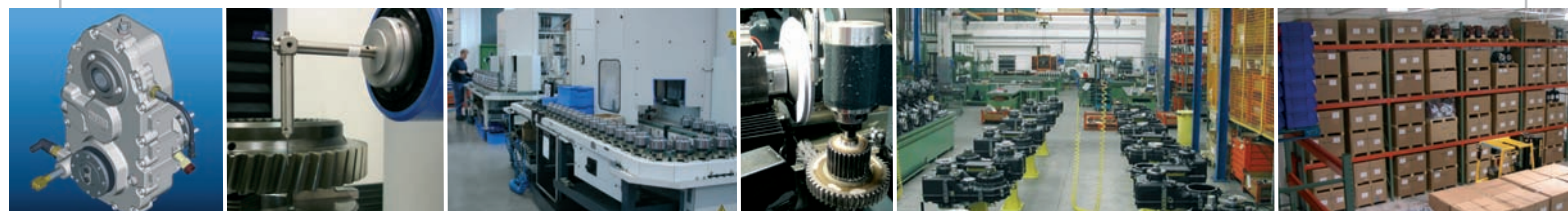
OMSI Trasmissioni S.p.A. is structured with internal systems for the design and planning, production and process controls; guaranteeing manufacturing flexibility and assuring constant quality levels. The company's philosophy is strong on its research and development and continuing improvement of its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



Split shaft power take-offs and engine driven power take-offs for truck mounted equipment

The OMSI Trasmissioni S.p.A. line of power take-offs includes a number of basic models covering the full range of power drive requirements.

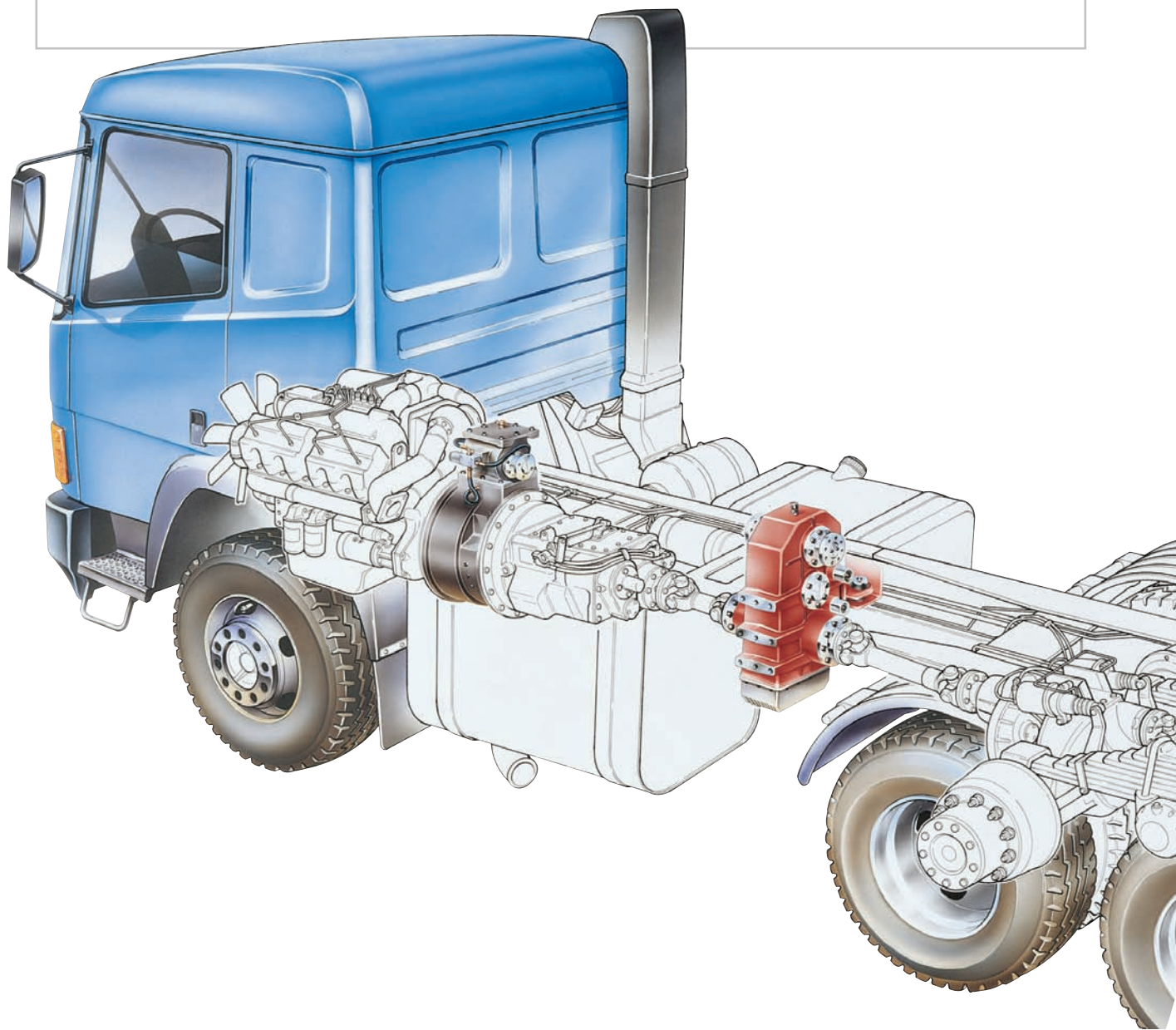
Split shaft and engine driven PTO's eliminate the necessity of installing an auxiliary engine drive. They are used in cases where conventional transmission PTO's are not capable of providing the required power.

The split shaft PTO is positioned within the truck chassis between the transmission and differential. By selecting the most suitable drive range, it allows to transmit the maximum engine horsepower. The PTO can be operated with the vehicle in the stationary mode or in motion, if required.

These units are designed for truck power trains from 50 to 370 kW (67 to 500 HP).

The engine driven PTO is independent of the clutch and it is installed directly between the engine and transmission, allowing the maximum power transfer even when the vehicle is in motion.

Engineered with extensive safety margins and combined with the selection of the highest grade of gears, shafts materials and precision machined components, the OMSI PTO's provide maximum efficiency and reliability.



HOT- SHIFT PowerClutch

OMSI Trasmissioni S.p.A. has developed and introduced to the market Split Shaft PTO's with multi-disc oil-bath heavy duty clutch.

This unique and special feature has been **PATENTED throughout the major markets of the world.**

The drive outputs can be operated with the main drive shaft in motion while engaging and disengaging the auxiliary systems (water pumps, vacuum pumps, compressors, etc.). Thus, eliminating the need to stop the rotation of the drive system and disabling the main power source.

It minimizes the possibility for operator errors.

The PowerClutch driven power take-offs provide the operator with the most simplistic controls. As a result, the downtime is drastically reduced, improving significantly the machine's efficiency.



HOT- SHIFT PowerClutch PFT - PC4/3000

Torque mechanical transmission	30.000 Nm
Range of drive ratios	1 / 1 - 1,27
Maximum output power	110 kW

Patented

HOT-SHIFT PowerClutch PFT - PCV/3000 - C



Patented



PFT - 300

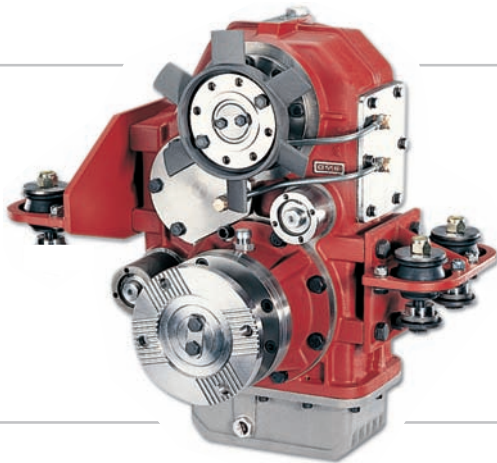
Torque mechanical transmission	4.500 Nm
Range of drive ratios	1 / 1 - 1,5
Maximum output power	75 kW



OMSI split shaft PTO's with two or four outputs for hydraulic pumps and direct drives

Applications

Septic Tankers, Sewer Cleaning Combination Machines, Hazardous Waste Transport Tankers, Baghouse Vacuum Machines, Dumpster Washers, Fire Trucks, Drilling Rigs, Trash Compactors, Wood Chippers and Shredders.



PFT - 2AV/3000

Torque mechanical transmission	30.000 Nm
Range of drive ratios	1 / 1 - 2,28
Maximum output power	160 kW



PFT - 4AV - E/3000

Torque mechanical transmission	30.000 Nm
Range of drive ratios	1 / 1 - 1,27
Maximum output power	290 kW



PFT - 2AV/450

Torque mechanical transmission	4.500 Nm
Range of drive ratios	1 / 1 - 1,5
Maximum output power	75 kW



OMSI split shaft PTO's with two, four or six outputs for direct mount of axial piston and gear type hydraulic pumps

Applications

Concrete Pumping Equipment, Sewer Cleaning Combination Machines, Fire Trucks and Drilling Rigs.



Particularly suitable for the installation of in-line pumps up to 190 cc. These compact PTO's with aluminum alloy housings provide extremely high through-torque in the heavy duty "HD" version.

PFT - WGO250/1700 - HD/3000	
Torque mechanical transm.	17.000-30.000 Nm
Range of drive ratios	1 / 1 - 1,5
Maximum output power	200 kW - 345 kW



Particularly suitable for the installation of in-line pumps up to 250 cc.

PFT - WGS280/3000	
Torque mechanical transmission	30.000 Nm
Range of drive ratios	1 / 1 - 1,5
Maximum output power	345 kW



PFT - PCV/3000 Pump Drive	
Torque-mechanical transmission	30.000 Nm
Range of drive ratios	1 / 1 - 1,7
Maximum output power	380 kW

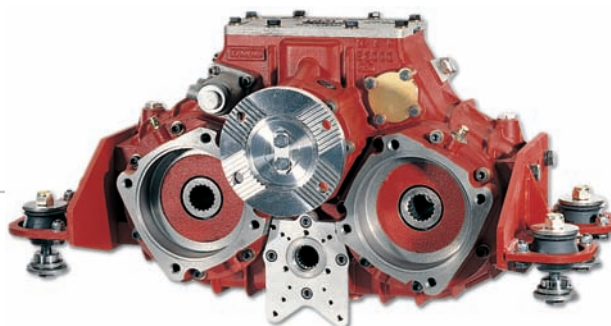




PFT - PC4/3000

PFT - PC6/3000

Torque-mechanical transmission	30.000 Nm
Range of drive ratios	1 / 1 - 1,27
Maximum output power	110 kW



Engine driven power take-offs for truck mounted equipment and industrial applications

Applications

Cement Mixers, Concrete Pumpers, Sewer Cleaning Combination Machines, Street Washer, Fire Trucks and Drilling Rigs. The PTO can be installed in most brands of vehicles provided to the market without engine driven power take-off. Available with three speed-increase ratios and one or two clutch-controlled outputs. Aluminum alloy housing.

Stone crushers and Wood Chippers. The PTO can be installed on a diesel engine with SAE 1 flange in which it is required a through output coupled with a clutch or a hydrodynamic PTO and auxiliary outputs for various services.

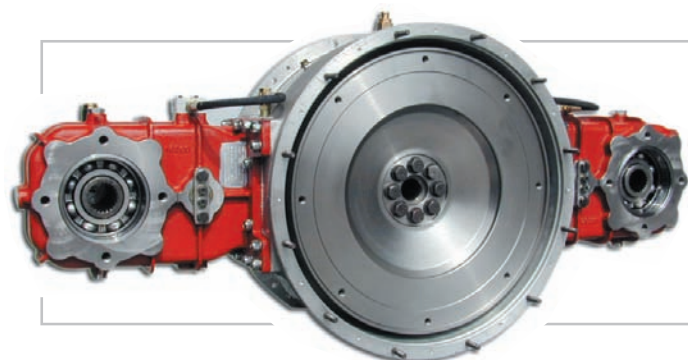
OMKA

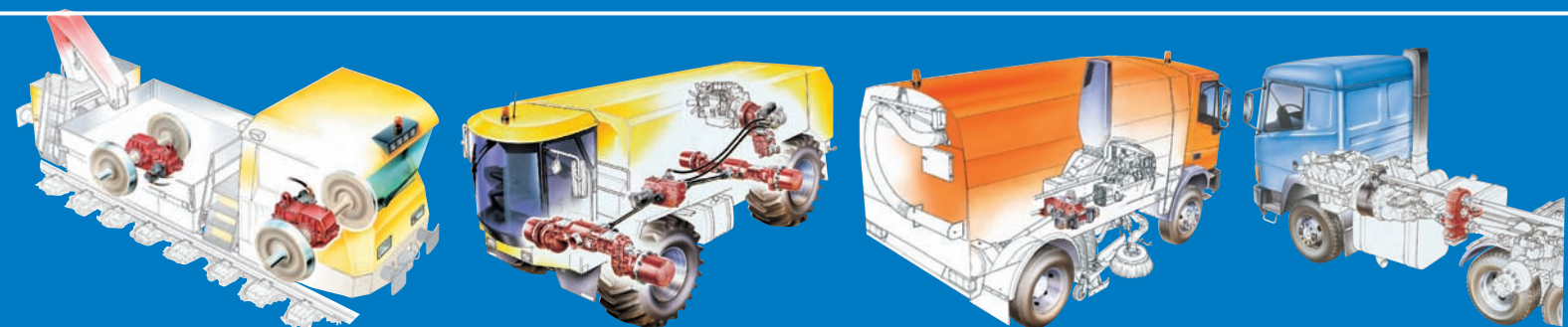
Engine and gearbox size	SAE 1
Range of drive ratios	1 / 1 - 1,48
Maximum output power	180 kW



OMKA 2H

Engine and PTO size	SAE 1
Range of drive ratios	1 / 1 - 1,3
Maximum output power	120-140 kW





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