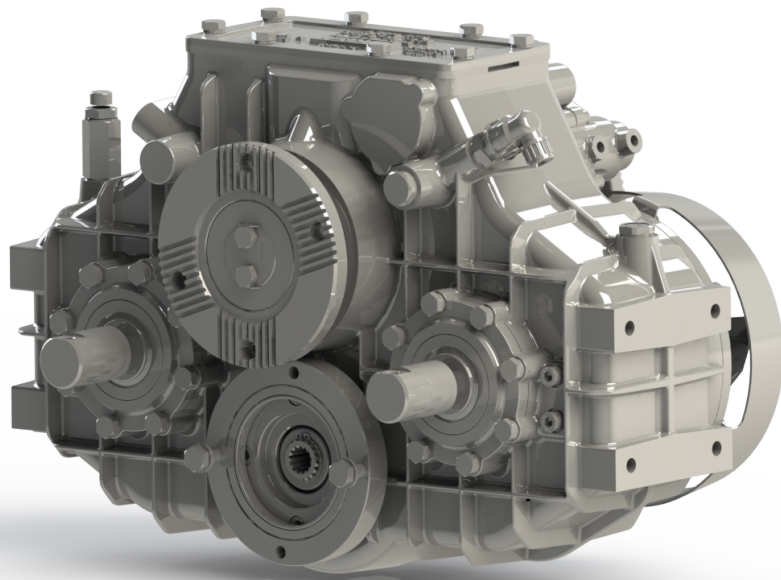




TECHNICAL SHEET



**HORIZONTAL SPLIT
POWER TAKE OFF**

Description



The PFT – PC4/3000 it's an intermediate power take off that is mainly equipped on combined vehicles for draining sewers and washing conducts. This power take off allows the operation of the duties for the equipment's functioning by drawing power from the transmission shaft of the vehicle. The PFT PC4/3000 power take off can be equipped with one or two clutches in oil bath. They allow the functioning of one or more duties (pumps, air pumps, compressors, etc.) without acting on the engine's clutch for stopping the shaft rotation where the power take off enters during the engagement and disengagement of the duties. This power take off guarantees an extreme operation simplicity, by drastically reducing inactive times.

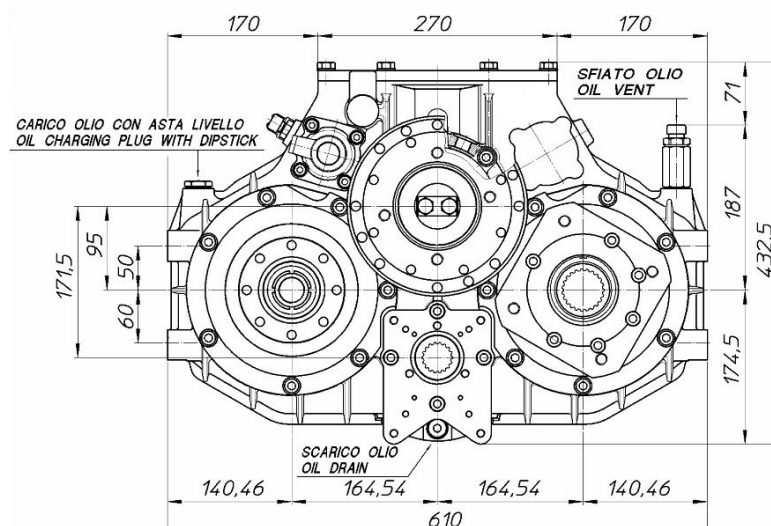
TRANSMISSION control

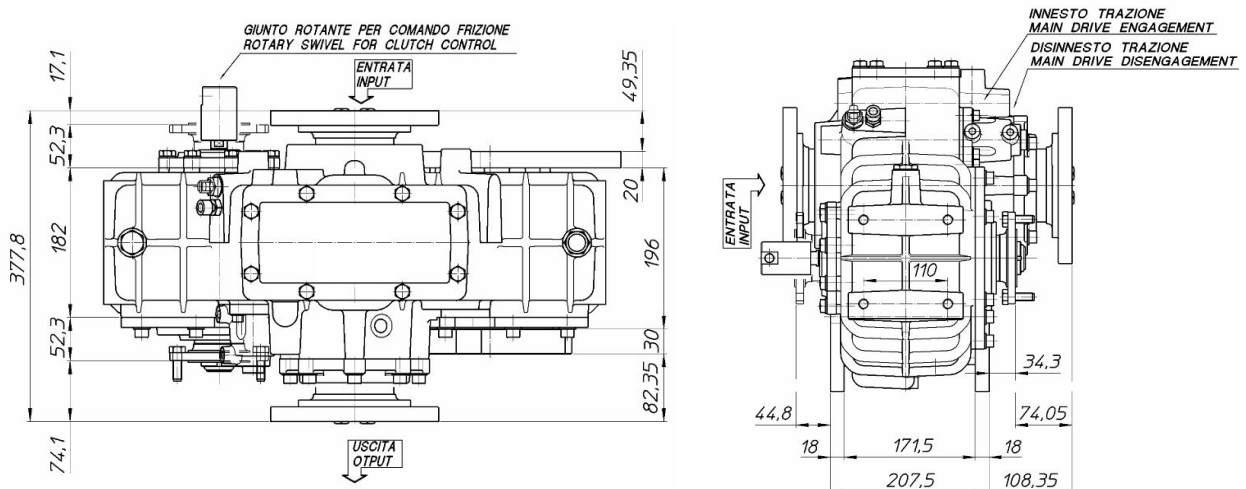
The engagement or the disengagement of the main transmission is done through a double effect pneumatic cylinder (6 – 8 bars) with a security system that maintains the acquired position without air in the plant, even on load. The control must be operated only when the transmission shaft (out from the gear) is completely still.

DUTIES control

The engagement of the lateral duties without clutch and of the central duties for the services, takes place automatically when disengaging the differential. The exits with a plate-type clutch in oil bath are pneumatically controlled (min. 7 - 8 bars) by a rotating joint even when the transmission shaft (out from the gear) isn't completely still.

Dimensions





Technical data

MAIN DRIVE

Maximum continuous torque	21.000 Nm
Maximum instantaneous torque	30.000 Nm
Maximum speed	2.500 rpm - 3.300 rpm

AUXILIARY OUTPUTS

SIDE POWER TAKE OFF

Available outputs	Pneumatic clutch - Mechanical - Hydraulic	
Maximum power available at shaft	110 kW	
Maximum torque available at shaft	1.200 Nm	
Maximum output speed	2.500 rpm	
Direction of rotation	Opposite of engine	
Available drive ratios	1 (1,000)	0,787 (1,270)
Power take-off operational with vehicle	Stationary (standard) - In motion (special)	

AUXILIARY SERVICE POWER PORTS

Available outputs	Hydraulic	
Maximum power available at shaft	35 kW	
Maximum torque available at shaft	400 Nm	
Direction of rotation	Opposite of engine	
Available drive ratios	0,758 (1,319)	0,617 (1,620)
Power take-off operational with vehicle	Stationary (standard) - In motion (special)	

Main features

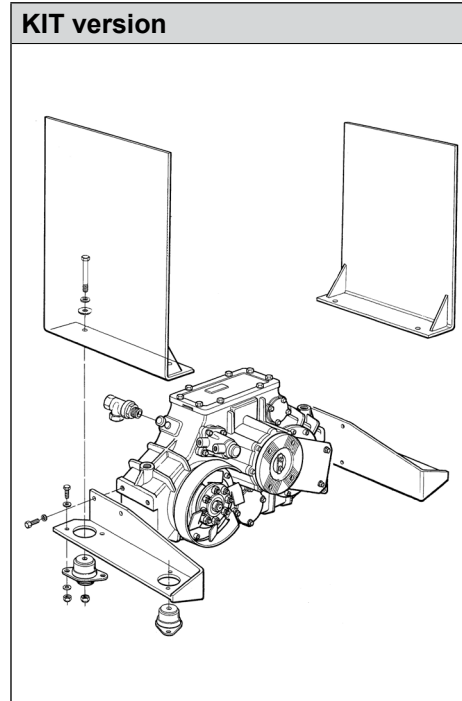
Horizontal Total Split Pto with inside pneumatic clutches or without, for hydraulic or mechanical application systems, with rubber shock absorber , split pto supports and side fitting plates. Max couple main transmission 30.000 Nm. Front or rear with or without pneumatic clutches exits for mechanical or hydraulic application, one hydraulic exit for services. With pneumatic clutches swivel and rpm sensor.

- Oil bath clutches for driving cardan shafts on cabin or on different side
- Female shafts for directly driving hydraulic pumps or cardan shafts, on cabin or on differential side
- Engagement of the side output done in the following ways:
 - through a rotary swivel in the “CLUTCH” version, solution patented that allows the operating of vacuum pumps, blowers, water pumps, compressors, etc. without disengaging the main drive of the PTO itself. This innovation provides the operator with extremely simple use of the PTO, resulting in a more effective and efficient operation with reduced downtime.
 - automatically, disengaging the differential in the “SIMPLE” version with female shafts.
 - through an automatic independent pneumatic control in the “DOUBLE CONTROL” version.
- A third shaft “OUTPUT FOR SERVICE DEVICES” is available. This shaft is engaged automatically when the main drive is disengaged, and allows the operation of auxiliary services on cabin and/or differential side, independently from the side outputs.

Example of application



Versions



description	KIT code	only PTO code
Total horizontal split pto kit without pneumatic cluth inside	6.870000360-2	6.923024503-2
Total horizontal split pto kit with 1 pneumatic cluth inside	6.870000340-2	6.923024501-2
Total horizontal split pto kit with 2 pneumatic cluthes inside	6.870000320-2	6.923024500-2



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