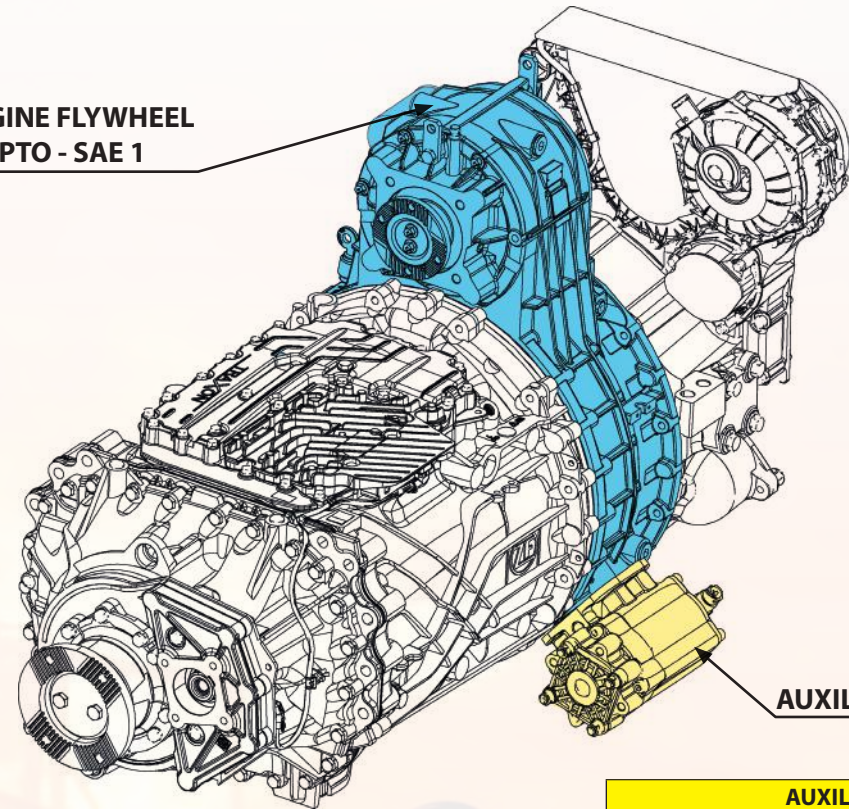


## GEARBOXES

ZF

ENGINE FLYWHEEL  
PTO - SAE 1

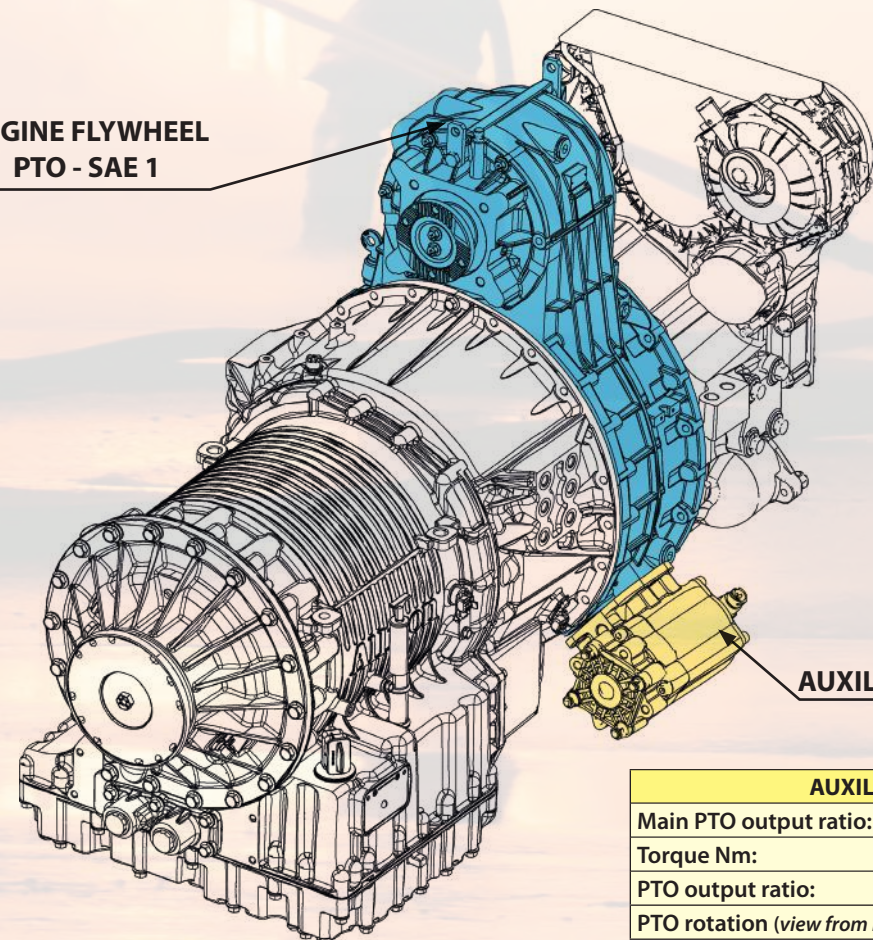


AUXILIARY PTO S296

AUXILIARY PTO S296			
Main PTO output ratio:	1:1,02	1:1,27	1:1,52
Torque Nm:	270		
PTO output ratio:	1:1,01	1:1,01	1:1,20
PTO rotation (view from rear)	↻ (Opposite Engine)		

ALLISON 4000

ENGINE FLYWHEEL  
PTO - SAE 1



AUXILIARY PTO S296

AUXILIARY PTO S296			
Main PTO output ratio:	1:1,02	1:1,27	1:1,52
Torque Nm:	270		
PTO output ratio:	1:1,01	1:1,01	1:1,20
PTO rotation (view from rear)	↻ (Opposite Engine)		

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Layout & Graphic Design: Studio '80 (BO) ITALY

A member of INTERPUMP  
GROUP

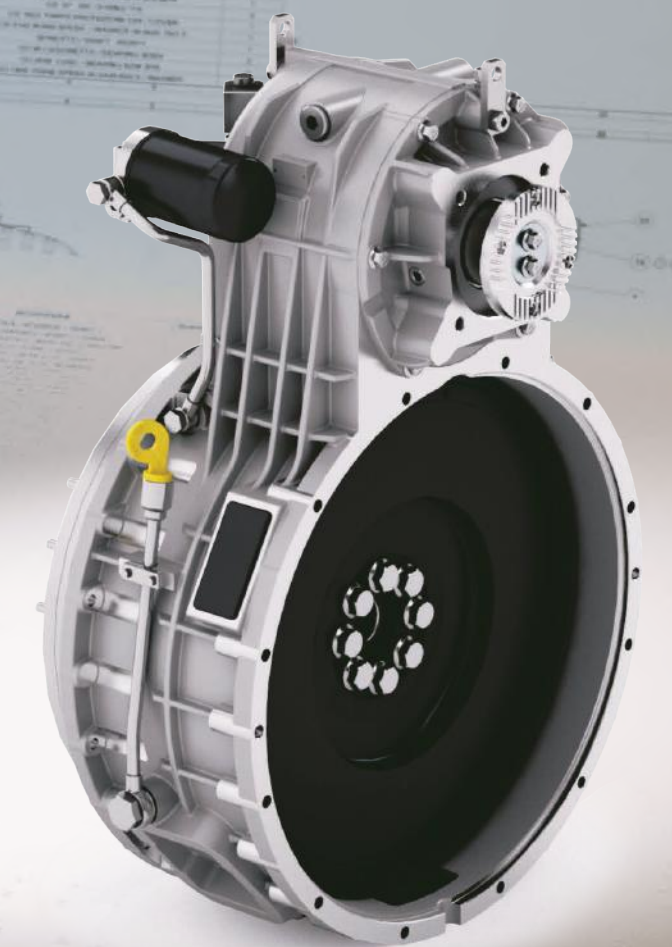
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# EFP-1

## Engine Flywheel Pto SAE 1

# New







### PTO FOR HEAVY DUTY APPLICATIONS (100% OF ENGINE AVAILABLE TORQUE)

- Main applications are:
- fire-fighting (including pump & roll function),
  - refrigerator (cooler) vehicle
  - concrete mixer,
  - sewer cleaner,
  - snowplough,
  - drilling devices,
  - other.

### EASY TO FIT

The PTO EFP-1 is so easy to adapt that is easily suitable to be installed onto the following transmissions (manual, automated and fully automatic) and related engines:

- ZF,
- ALLISON (series 3000/4000),
- EATON,
- DAIMLER,
- VOLVO,
- TATA,
- ISUZU,
- HINO,
- NISSAN,
- FUSO,
- HYUNDAI,
- other.

### TECHNICAL SPECIFICATIONS

PTO clutch engagement limit conditions: 1000 r.p.m. / 2500 Nm / 262 kW  
 1500 r.p.m. / 1650 Nm / 262 kW  
 2000 r.p.m. / 1250 Nm / 262 kW

PTO output Torque: 2500 Nm / ratio 1:1,02  
 2000 Nm / ratio 1:1,27  
 1600 Nm / ratio 1:1,56

The max Power has to be considered as continuous use (392 kW max).

### FUNCTIONS

- Engine dependent pto;
- pto usage both with standing still vehicles as well as in mobile conditions (pump and roll);
- pto mounting position between engine and gearbox;
- pto output at 12 O'clock (from 11 up to 1 O'Clock - see pictures);
- assembling without any "special" or dedicated tool.

### OPTIONS

- Pto output engagement control, hot-shift (clutch), constant drive and hydraulic shifting (engine off);
- pre-arrangement for external oil cooler;
- temperature control option;
- oil level inspection;
- pto output sensor speed;
- auxiliary pto window opening located at 4 and 8 O'clock to avoid chassis collision 300 Nm ratio 1:1,32;
- oil cooler (air/oil);
- no residual clutch drag (active brake function).

### TECHNICAL SPECIFICATIONS

Unit through torque (to rear axle):  
 - as indication and reference 4000 Nm (max.); 530 kW - 720 HP (max).

### VEHICLES INSTALLATIONS

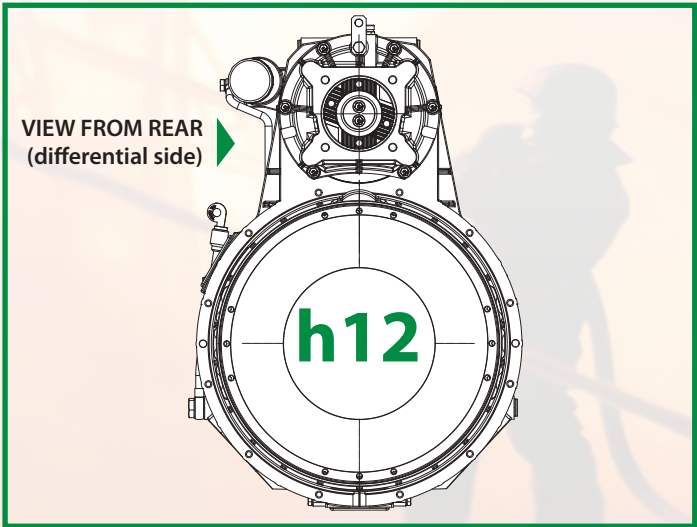
Max. engine speed: 2500 r.p.m  
 Max. operating angle of the vehicle: - forward / rearward: 17° (30%),  
 - right / left: 17° (30%).

### FLANGE OUTPUT

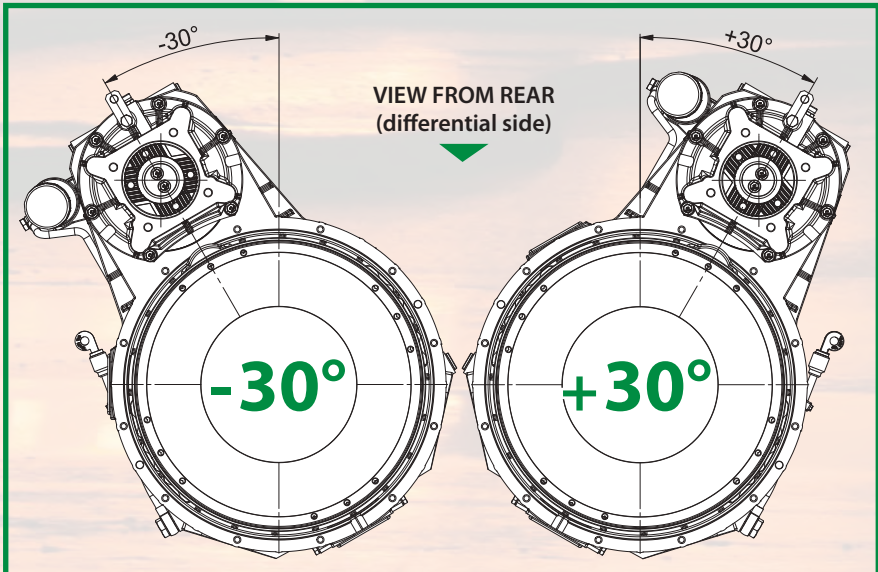
PTO output: - pump SAE C 4 bolts,  
 - flange 120 ISO 8667 (XS),  
 - flange 150 ISO 8667 (XS).

### MOUNTING POSITIONS

STANDARD: h12

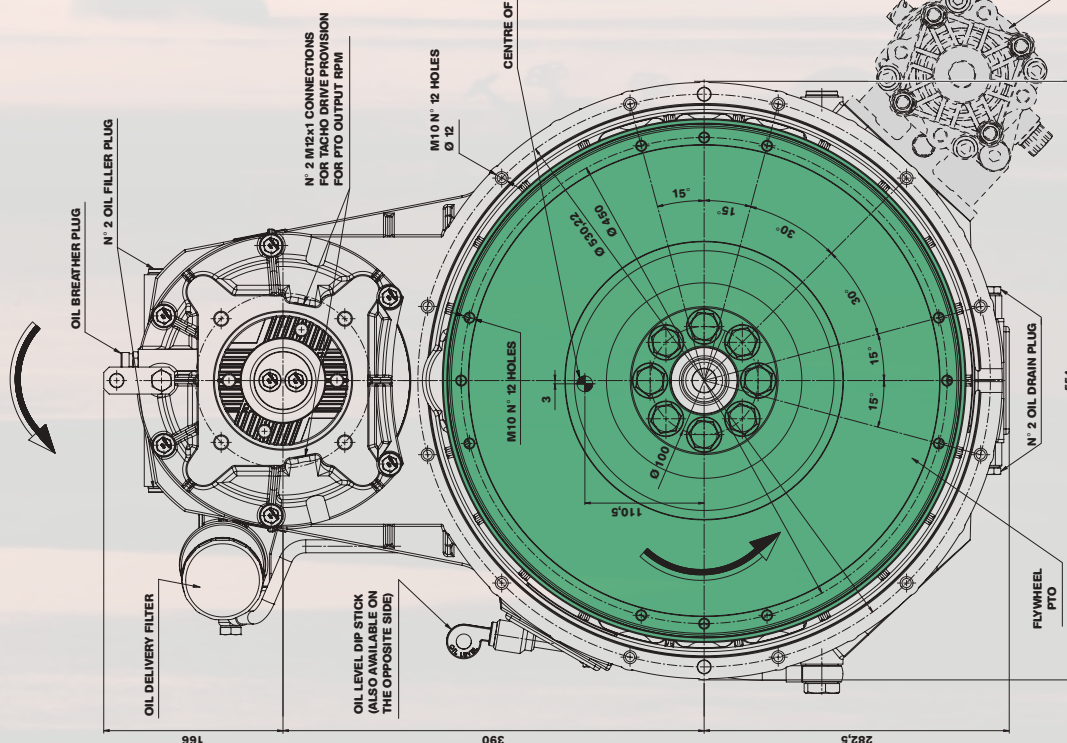
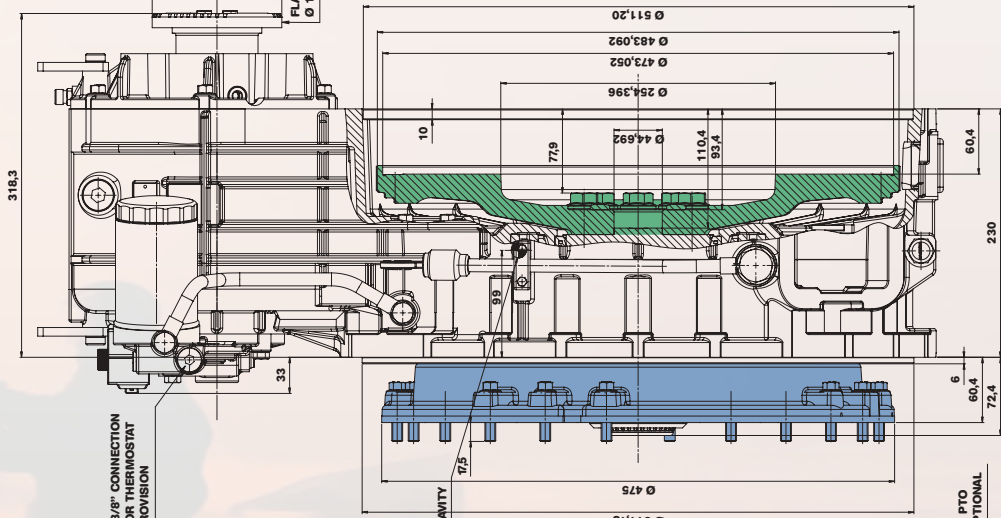
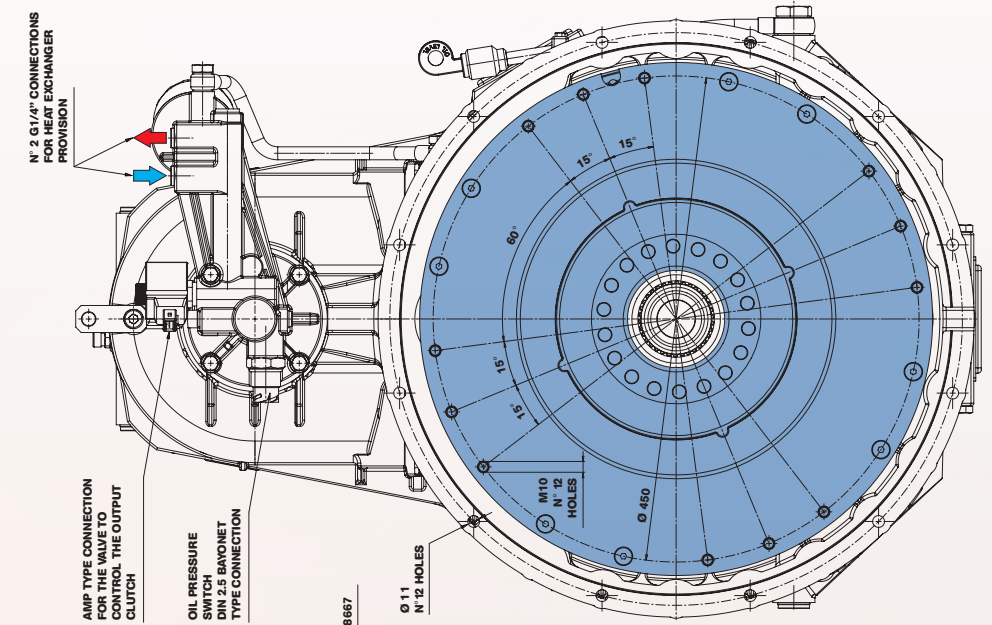


OPTIONAL: +30° or -30°



### DIMENSIONS

### VERSION WITH DAMPER



FRONT VIEW

VEHICLE MOTION DIRECTION

REAR VIEW (12 O'CLOCK)