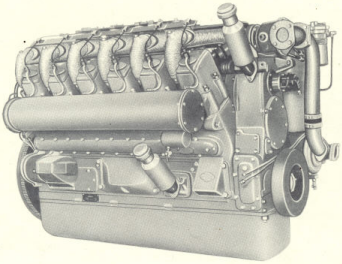
DIESEL ENGINE

WOLA H12

240–360 metric HP

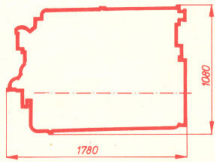


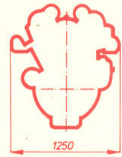
The engines WOLA H12 are manufactured by the Zakłady Mechaniczne "PZL–WOLA" im. M.Nowotki in Warsaw under a Henschel licence. The "PZL–WOLA" factory has got an over thirty-year experience in the field of production of compression-ignition engines. The WOLA H12 trouble-free operation under every climatic conditions and long overhauling periods are due to special high-grade materials and precision observed in production of all component parts. The WOLA H12 are industrial engines of numerous applications.

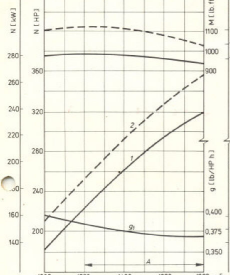
WOLA H12

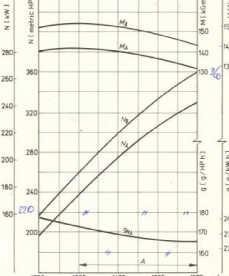
Technical Data

Engine kind	– four-stroke Diesel engine
Number and arrangement of cylinders	– 12, 60° Vee-engine
Rated power (acc. to DIN 6270)	– 265 kW (360 HP)
Max. torque at n=1300 r.p.m.	– 148 Nm (152 m.kg)
Rated speed	– 1800 r.p.m.
Cylinder bore	– 135 mm
Piston stroke	– 155 mm
Engine capacity	– 26.64 dm^3
Compression ratio	– 14
Direction of rotation	– anticlockwise (as seen from the flywheel)
Specific fuel consumption	– 224 g/kW·h (165 g/HP·h)
Specific oil consumption	– 2.04 g/kW·h (1.5 g/HP·h)
Injection	– direct
Cooling	– water cooling
Starting system	– electric or pneumatic
Power take-off	– directly from the flywheel. 30% power can be taken from the fan side
Flywheel	– acc. to the Maker's standard
Dry engine weight	– 2150 kg









1. Continuous power applied by the engine acc. to BS 649:1958
2. Intermittent power applied by the engine acc. to BS 649:1958
g_i – Specific fuel consumption at continuous power

N_A – Continuous power less that absorbed by the engine fan acc. to DIN 6270
N_B – Max. continuous power (never exceed power) less that absorbed by the engine fan acc. to DIN 6270
g_{NA} – Specific fuel consumption at continuous power

A – Range of engine speeds making it possible to continually drive industrial machines

NOTE:
The represented curves are typical for the engine under description. However, curves corresponding to some defined applications of the engine may differ from the typical ones.

Standard equipment

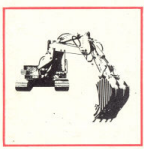
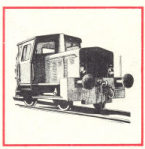
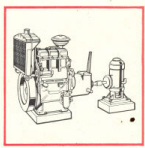
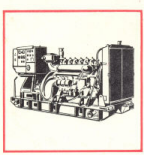
Induction manifold
Exhaust manifold
Injection pump
Fuel filter
Oil filter
Water pump
Thermostat
Oil pump
Dynamo 24 V d.c., 600 W
Starter 24 V d.c., 6,61 kW (9 HP)
Voltage regulator
Torsional vibration damper (on the crankshaft)
Oil cooler
Hand-operated oil priming pump
Flywheel

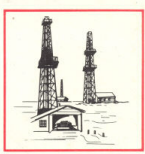
Optional equipment

Fan
Water radiator
Air cleaner
Electric oil priming pump
Water thermometer
Oil thermometer
Engine-speed indicator
Voltammeter
Fixing lugs
Storage battery
Flexible coupling Wola E
Reversing gear Wola R
Clutch
Exhaust expansion pipes
Remote control device
Layshaft for power take-off from the engine front
Starting air distributor
Flywheel housing
Running hours counter
Exhaust muffler
Outboard and bilge water pump
Water-water heat exchanger
Solenoid valve intended for fuel cut-off in case of emergency
Set of spare parts
Set of spanners

Applications

The engines type WOLA H12 are applied to drive building machinery and generating sets, they also find numerous applications in the railway system and navigation.



Manufacturer:

ZAKŁADY MECHANICZNE "PZL – WOLA"
im. M.Nowotki – Fort Wola
00–961 Warszawa, POLAND
Phone: 36–80–21, 36–36–21
Telex: 81 4751

Exporter:

FOREIGN TRADE ENTERPRISE
OF AVIATION INDUSTRY
al. Stanów Zjednoczonych 61
00–991 Warszawa, POLAND
P.O.Box: 6
Phone: 10-80-01
Telex: 81 3430, 81 2815

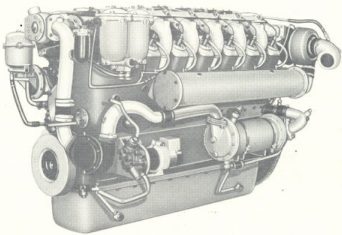
PEZETEL

ZAKŁAD WYDAWNICZO–POLIGRAFICZNY

TURBOCHARGED DIESEL ENGINE

WOLA H12A

360–550 metric HP



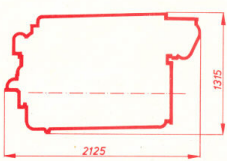
The engines WOLA H12A are manufactured by the Zakłady Mechaniczne "PZL – WOLA" im. M.Nowotki in Warsaw under a Henschel licence. The "PZL – WOLA" factory has got an over thirty-year experience in the field of production of compression-ignition engines.

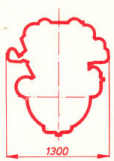
The WOLA H12A trouble-free operation under every climatic conditions and long overhauling periods are due to special high-grade materials and precision observed in production of all component parts. The WOLA H12A are industrial engines of numerous applications.

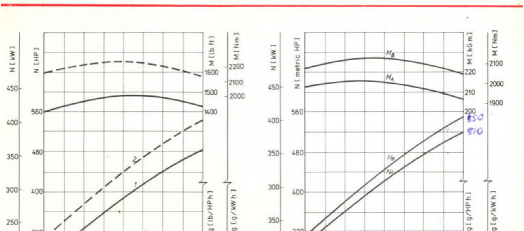
WOLA H12A

Technical Data

Engine kind	– four-stroke, turbocharged Diesel engine
Number and arrangement of cylinders	– 12, 60° Vee-engine
Rated power (acc. to DIN 6270)	– 404 KW (550 HP)
Max. torque at n=1400 r.p.m.	– 2253 Nm (230 m.kg)
Rated speed	– 1800 r.p.m.
Cylinder bore	– 135 mm
Piston stroke	– 155 mm
Engine capacity	– 26.64 dm^3
Compression ratio	– 14
Direction of rotation	– anticlockwise (as seen from the flywheel)
Specific fuel consumption	- 224 g/KW·h (165 g/HP·h)
Specific oil consumption	– 2.04 g/kW·h (1.5 g/HP·h)
Injection	– direct
Cooling	– water cooling
Starting system	– electric or pneumatic
Power take-off	– directly from the flywheel. 30% power can be taken from the engine front
Flywheel	– acc. to the Maker's standard
Dry engine weight	– 2210 kg







1. Continuous power applied by the engine acc. to BS 649:1958
2. Intermittent power applied by the engine acc. to BS 649:1958
b_i – Specific fuel consumption at continuous power

N_A – Continuous power less that absorbed by the engine fan acc. to DIN 6270
N_B – Max. continuous power (never exceed power) less that absorbed by the engine fan acc. to DIN 6270
g_{N_A} – Specific fuel consumption at continuous power

A – Range of engine speeds making it possible to continually drive industrial machines

NOTE:
The represented curves are typical for the engine under description. However, curves corresponding to some defined applications of the engine may differ from the typical ones.

Standard equipment

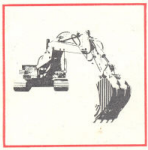
Turbocharger
Induction manifold
Exhaust manifold
Injection pump
Fuel filter
Oil filter
Water pump
Thermostat
Oil pump
Dynamo 24 V d.c., 600 W
Starter 24 V d.c., 6.61 kW (9 HP)
Voltage regulator
Torsional vibration damper (on the crankshaft)
Oil cooler
Hand-operated oil priming pump
Flywheel

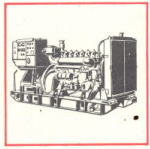
Optional equipment

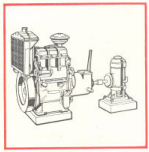
Fan
Water radiator
Air cleaner
Electric oil priming pump
Water thermometer
Oil thermometer
Engine-speed indicator
Voltammeter
Engine mounting feet
Storage battery
Flexible coupling Wola E
Reversing gear Wola R
Clutch, industrial type
Exhaust expansion pipes
Remote control device
Layshaft for power take-off from the engine front
Starting air distributor
Flywheel housing
Running hours counter
Exhaust silencer
Outboard and bilge water pump
Water-water heat exchanger
Solenoid valve intended for fuel cut-off in case of emergency
Set of spare parts
Set of tools

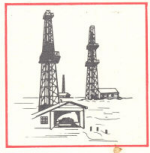
Applications

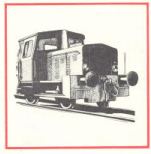
The engines type WOLA H12A are applied to drive building machinery and generating sets, they also find numerous applications in the railway system and navigation.











Manufacturer:

ZAKŁADY MECHANICZNE "PZL – WOLA"
im. M.Nowotki – Fort Wola
00–961 Warszawa, POLAND
Phone: 36–80–21, 36–36–21
Telex: 81 4751

Exporter:

FOREIGN TRADE ENTERPRISE
OF AVIATION INDUSTRY
al. Stanów Zjednoczonych 61
00–991 Warszawa, POLAND
P.O.Box: 6
Phone: 10-80-01
Telex: 81 3430, 81 2815

PEZETEL

ZAKŁAD WYDAWNICZO-POLIGRAFICZNY