

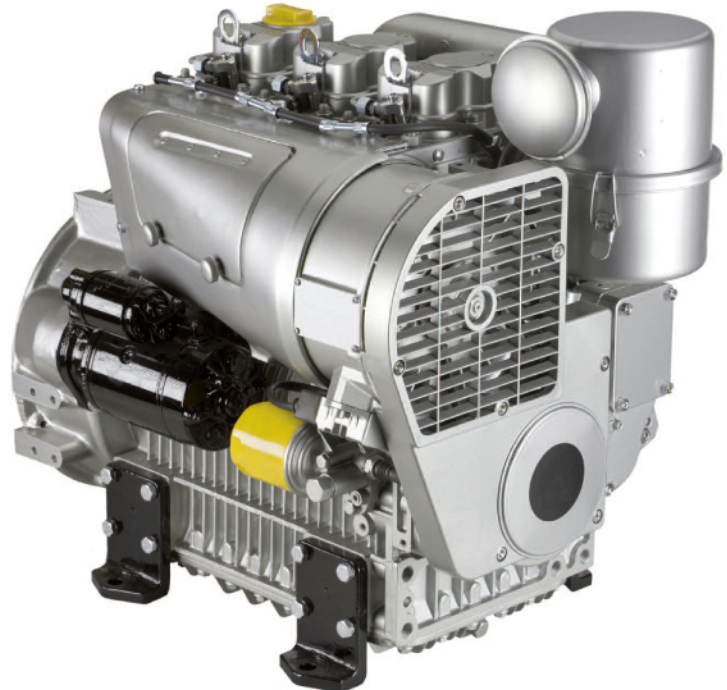
- 3 cylinders
- 1870 cm<sup>3</sup>
- 30,9 kW/42,0 HP
- 3000 r.p.m.
- Nm 114,6@2000

## Available homologation

- EPA TIER III      □
- ECE R 24        ▲
- 2004/26/CE/GSE      ○

## Construction

- 4-stroke air cooled diesel engine
- Direct injection
- Axle blower air cooling
- Mechanical fuel lift pump
- Forced lubrication with gear pump
- Full flow oil filtration with external cartridge filter
- Automatic extra fuel starting device
- Torque regulator
- Centrifugal speed governor
- Crankcase in die-cast aluminium
- Electric starting
- Counter-clockwise rotation (viewed from power take-off side)
- Aluminium alloy independent heads
- Re-borable independent cast-iron cylinders
- Power take-off on flywheel
- Oil cooler
- 3 years warranty.



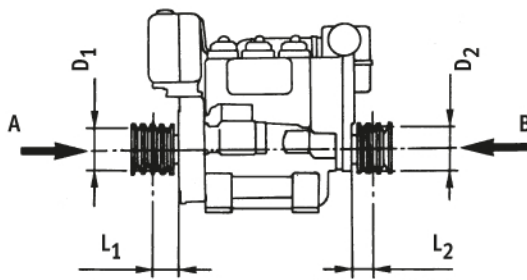
## Applications

- Generating Set
- Welding Set
- High pressure cleaner
- Transporter
- Hydraulic power pack
- Agricultural pump

## Specifications

Cylinders	N.	3
Displacement	cm <sup>3</sup>	1870
Bore	mm	95
Stroke	mm	88
Compression ratio		17:1
Rating kW/HP	N (80/1269/CEE) ISO 1585	30,9/42,0
	NB ISO 3046 IFN	28,6/39,0
	NA ISO 3046 ICXN	26,3/35,8
Max. torque	Nm	114,5@2000
Max. torque 3 P.T.O.	Nm	38,8
Counterclockwise rotation		
Engine speed - 3 P.T.O. ratio		1:1
Max. torque - 4 P.T.O. ratio	Nm	23,8
Counterclockwise rotation		
Engine speed - 4 P.T.O. ratio		1:1.1
Minimum idling speed r.p.m.		800-900
Fuel tank capacity	l	15
Oil consumption	kg/h.	0,017
Oil sump capacity	l	5
Min. allowable oil pressure	bar	1,5-2,0
Max. allowable inclination for:		
- short periods of operation (max. time 30 minutes)		25°
- peak values (max. time 1 minute)		35°
Cap. of air required for correct combustion @3000 r.p.m.	l/min.	2400
Cap. of air required for correct cooling @ 3000 r.p.m.	l/min.	38000
Dry weight	kg	170
Recommended battery		
- till -10°C	V/Ah	12/66
- till -15°C	V/Ah	12/88

Minimum pulley diameters for belt drive



$$D_1 \text{ (mm)} \geq 100 [185 + L_1 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (RPM)}}$$

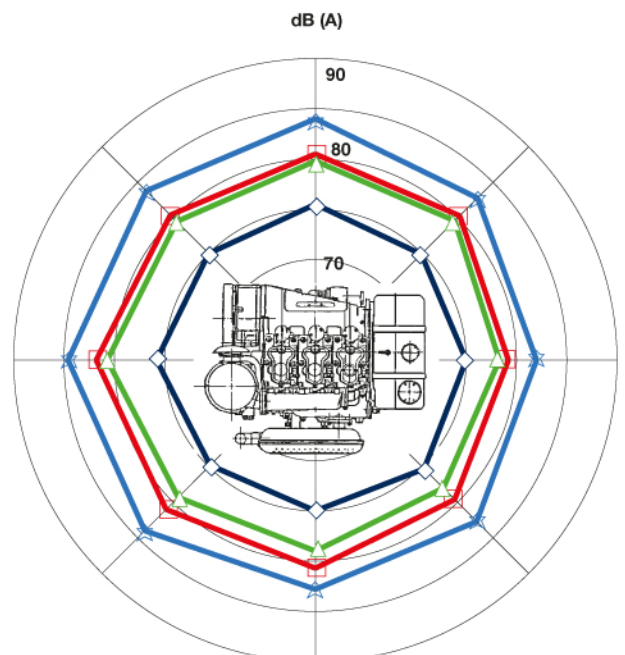
$$D_2 \text{ (mm)} \geq 113 [169 + L_2 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (RPM)}}$$

Max. intermittent axial load in both directions A-B = 600 kg



### Sound pressure level dB (A)

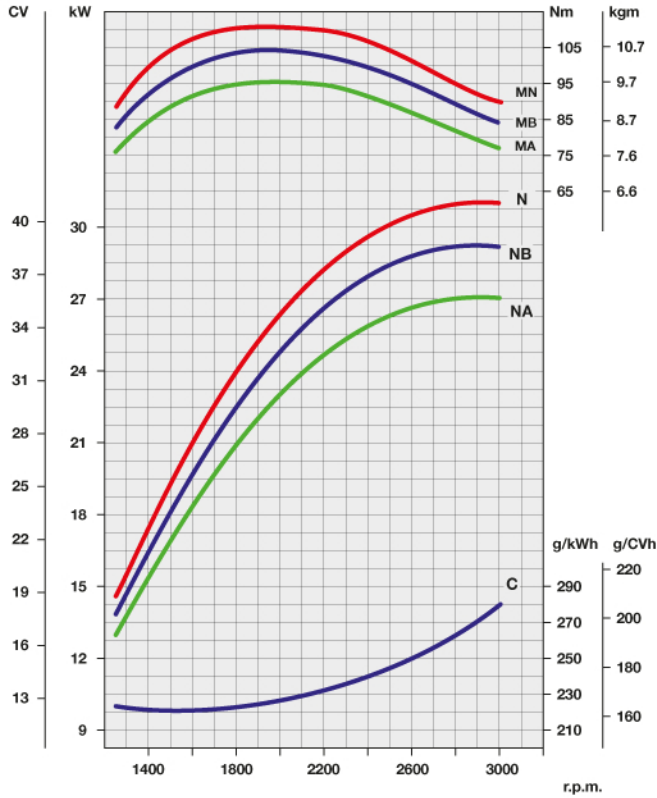
Sound level polar diagram open field - 7 meters microphone - no load running engine.



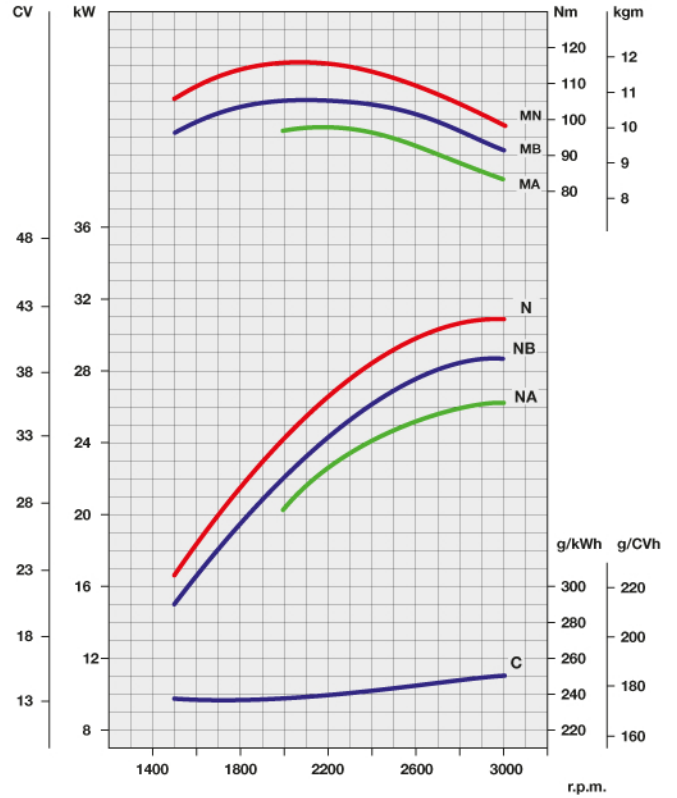
◆ 1500 RPM    
 ▲ 2000 RPM    
 ■ 2500 RPM    
 ★ 3000 RPM

## Curves

KD 626-3 NR @ 3000 r.p.m. ▲ ○



KD 626-3 B2 NR @ 3000 r.p.m.



**N** Power curve - 80/1269/CEE - ISO 1585 -

**NB** Power curve - ISO 3046 - IFN -

**NA** Power curve - ISO 3046 - ICXN -

**MN** Torque curve - (N curve)

**MB** (NB curve) - **MA** (NA curve)

**C** Specific fuel consumption - (NB curve)

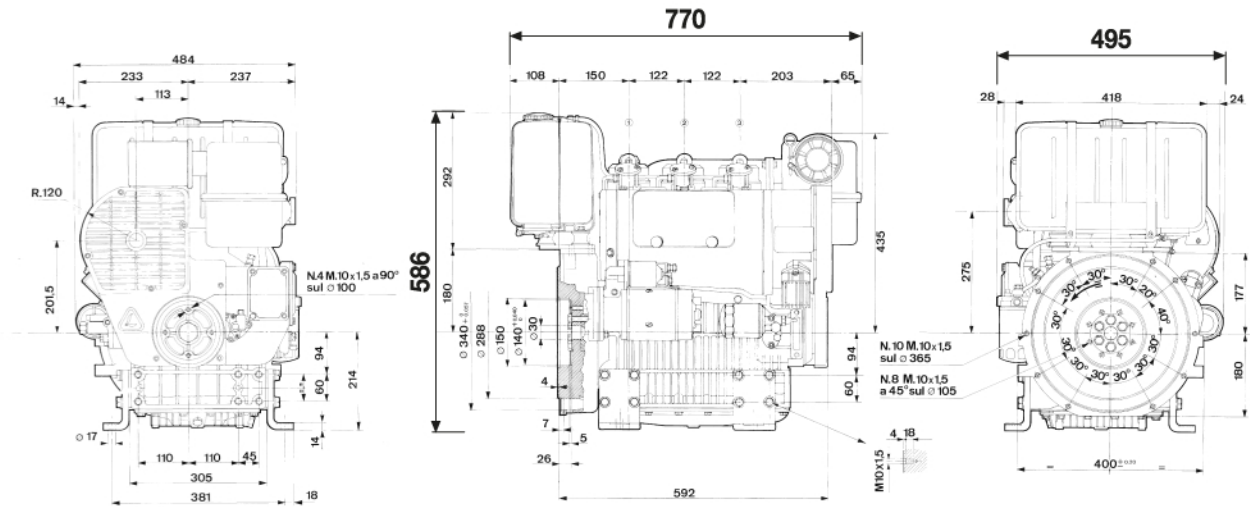
Power ratings refer to engines equiped with air filter, standard muffler, after being run in and in ambient conditions of 20°C and 1 bar. Power levels drop by 1% every 100m altitude and by 2% every 5°C above 20°C.

### Output power for fixed speed application (including generating sets)

#### Engine power kW

r.p.m.	Intermittent (NB)	Continuous (NA)
3000	28,6	26,3
1800	20,0	18,0
1500	16,7	14,7

## Technical drawings \*



### Standard equipment

- Electric starting with 12V starter motor and alternator
- Black paint on sheet metal parts
- Manual control accelerator (fixed)
- Oil bath air filter
- External fuel filter
- External oil filter
- Oil pressure switch
- Exhaust manifold and muffler
- Engine feet
- Power take-off on flywheel
- Keyswitch panel
- Fuel lift pump
- Counter-clockwise rotation on power take-off side
- Fuel tank
- Automatic extra fuel device
- Oil cooler
- Sound-proofing
- Guard for belt
- Use, maintenance and spare parts booklet

### Accessories

- Different guards according to use
- Range of alternative alternators
- Flanges
- Detached dry air filter
- Cyclonic air prefilter
- Clutches
- Range of flywheels for various clutches
- Hydraulic pump adapters
- Range of fuel tanks of various sizes
- Mufflers and exhaust pipes
- Controls
- Pulleys
- Varnishing



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