

- 1 cylinder
- 349 cm<sup>3</sup>
- 5,5 kW/7,5 HP
- 3600 r.p.m.
- Nm 16,6@2400

## Available homologation

- EPA TIER II ●
- ECE R 24 ▲

## Construction

- 4 -stroke air cooled diesel engine.
- Conical power take-off on crankshaft.
- Anticlockwise rotation.
- Direct injection.
- Forced lubrication with oil pump.
- Centrifugal mass governor.
- Built-in full flow oil filter.
- Oil breathing blow-by with safety device.
- Automatic extra fuel starting device.
- Self bleeding fuel system.
- Torque regulator.
- Automatic compression release.
- Die-cast aluminium crankcase with integral cast iron cylinder liner.
- Aluminium alloy cylinder head.
- Built-in rigid feet.
- 3 years warranty.

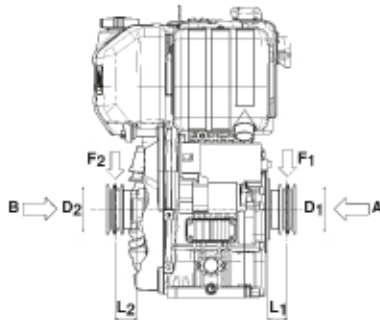


## Applications

- Two-wheel tractor
- Agricultural mower
- Agricultural pump
- High pressure cleaner
- Generating set
- Vibrating plate

### Specifications

Cylinders	N.	1
Displacement	cm <sup>3</sup>	349
Bore	mm	82
Stroke	mm	66
Compression ratio		20,3:1
Rating kW/HP	N (80/1269/CEE) ISO 1585	5,5/7,5
	NB ISO 3046 IFN	5,1/7,0
	NA ISO 3046 ICXN	4,7/6,4
Max. torque	Nm	16,6@2400
Min. idling speed		950÷1000
Fuel tank capacity	l	4,3
Oil consumption	kg/h.	0,0032
Oil sump capacity	l	1,2
Min. allowable oil pressure	bar	1+1,5
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 @ 3600 r.p.m.	l/min.	540
Cap. of air required for correct cooling @ 3600 r.p.m.	l/min.	5000
Dry weight	kg	33
Recommended battery	V/Ah	12/44
Minimum pulley diameters for belt drive		



$$D_2 \text{ (mm)} \geq 860 [60+L_2 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (RPM)}}$$

$$D_1 \text{ (mm)} \geq 820 [55+L_1 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (RPM)}}$$

Max. intermittent axial load in both directions A-B = 200 kg

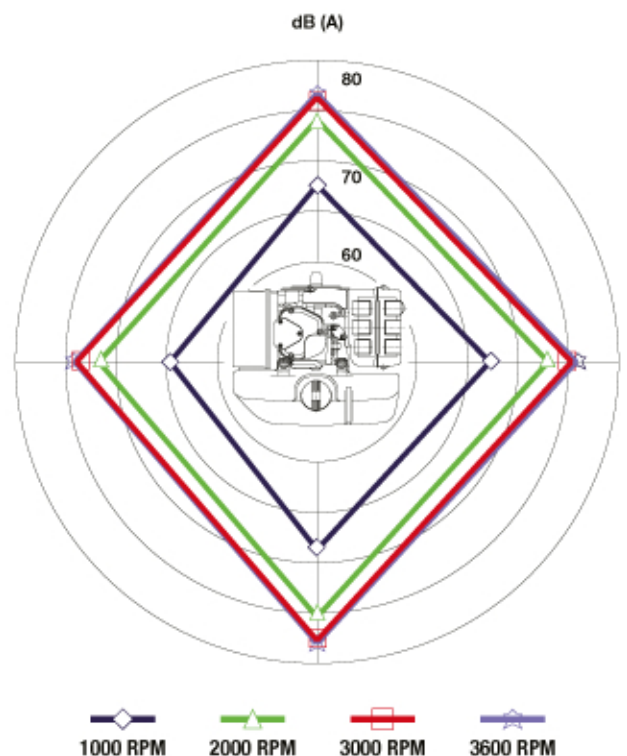
$$F_2 \text{ (N)} \leq \frac{67000}{60 + L_2 \text{ (mm)}}$$

$$F_1 \text{ (N)} \leq \frac{70000}{55 + L_1 \text{ (mm)}}$$

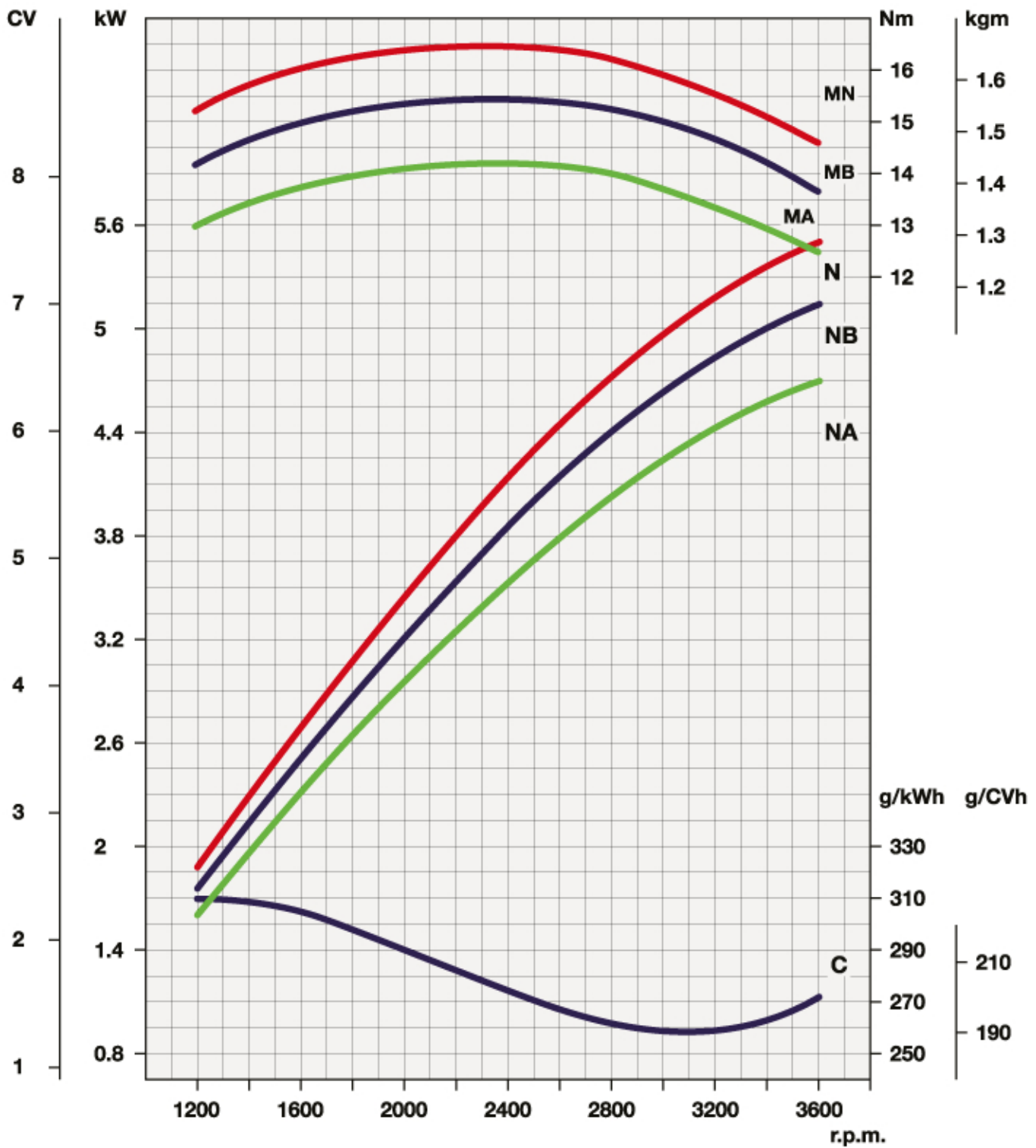
Maximum radial force on pulley for belt drive

### Sound pressure level dB (A)

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



## Curves KD350 ▲



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

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

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

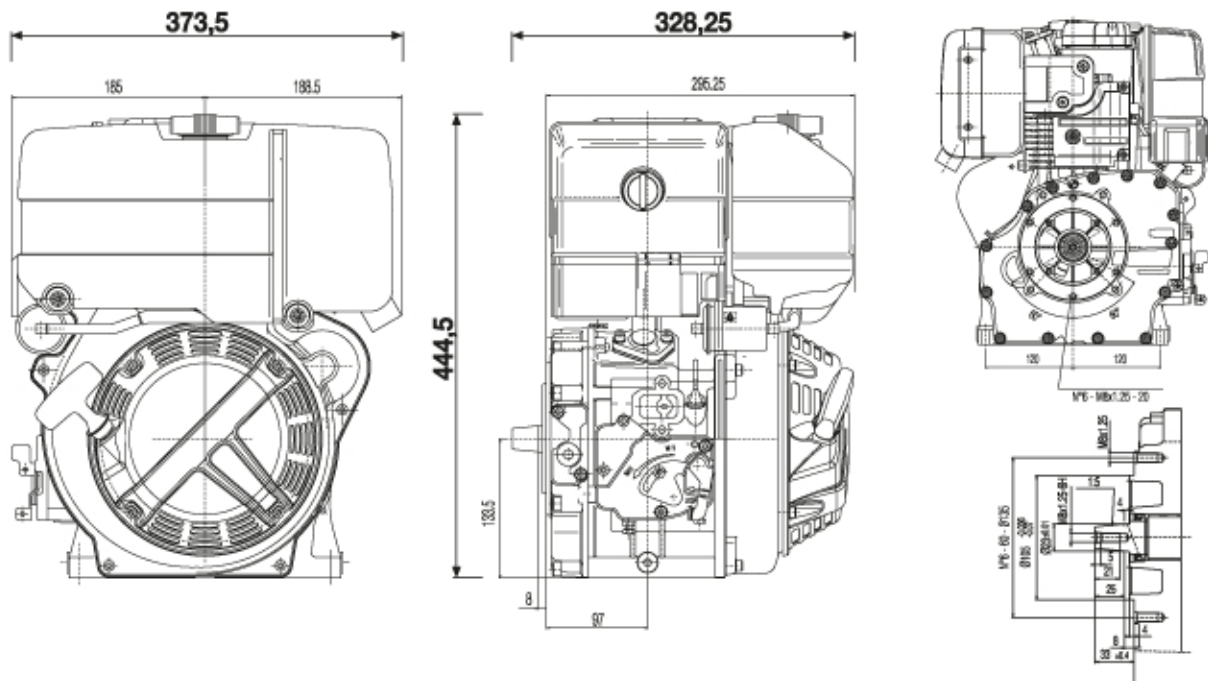
**MN** Torque curve - (N curve)

**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.

### Technical drawings



#### Standard equipment

- Recoil starting and automatic compression release
- Fuel tank
- Fuel filter
- Dry-air cleaner
- Muffler with guard
- Accelerator and stop manual control
- User maintenance-spare parts booklet

#### Accessories

- Power take-off flywheel side (engines with electrical starting)
- Power take-offs with flanging and special shaft
- Parallel crankshaft
- Internal dynamic balancer
- Oil-bath air-cleaner
- Electric start 12 V / 24 V
- Keyswitch panel
- Emergency stop through electrovalve
- Accelerator and stop remote control
- Key start panel with shutdown device
- Fuel lift pump
- Oil dipstick on cylinder head
- Oil pressure switch
- Oil temperature switch
- Glow plug on intake manifold
- Recoil with denoising cover
- Grass protection for engine cooling



LOMBARDINI S.r.l. a Socio unico  
 Cap. Soc. € 44.000.000,00 int. ver. R.E.A. 227083  
 Reg. Imp. RE/CEE Code/P.IVA (IT) 01829970357  
 Via Cav. del Lavoro Adelmo Lombardini, 2  
 42124 Reggio Emilia - Italia  
 Tel. +39.0522.3891 - Fax +39.0522.389503  
 info@lombardini.it [www.lombardini.it](http://www.lombardini.it)



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#### KOHLER LOMBARDINI ASIA PACIFIC

26B Keong Saik Road - 089133 Singapore  
 Tel. +65-6225-0556 - Fax +65-6225-0551