



# BRNO DIESEL



# STANDARD SERIES OF ZETOR ENGINES



## GENERAL SPECIFICATIONS

Type	Gasoline, vertical
	Inline
Cyls	4 strokes
Exhaustive system	Cross in-line
Lubrication system	Forced-feed splash
	Lubrication
Cooling system	Water-cooled
	circulation with
	fan-driven
Idle speed	600
Rated speed	2 000 min <sup>-1</sup>
Power (kW)	
max range	100 - 1000 min <sup>-1</sup>
Stroke	2 stroke
Material	St 4

## TECHNICAL DATA

Item	Z 1000	Z 1000 T	Z 1000	Z 1000	Z 1000	Z 1000 T
Number of cylinders	4	4	4	4	4	4
Bore x stroke (mm)	100 x 110	100 x 110	100 x 110	102 x 110	102 x 110	100 x 110
Free displacement (cm <sup>3</sup> )	2600.5	2600.5	2600	2600	2600	2600
Expansion	1000	1000	1000	1000	1000	1000
Water capacity (litres)	30	40	40	40	30	40
Fuel consumption (g/kWh)	200	180	200	200	180	180
Torque (kgm/%)	1.0	1.0	1.0	1.0	1.0	1.0
Oil filling (mm)	4	4	4	4	4	4
Oil mass (kg)	100	100	100	100	100	100
Length (mm)	400	400	400	400	400	400
width (mm)	100	100	100	100	100	100
Height (mm)	100	100	100	100	100	100

Engine series

According to EN 854 (Regulation No. 24)

# NEW SERIES OF ZETOR ENGINES



## GENERAL SPECIFICATIONS

Type	Overhead, water cooled
Cyls	4 stroke
Construction	Monoblock
Lubrication system	Forced circulation, oil sump
Configuration	Front engine, available with generator
Weight	100 kg
Rated speed	2200 rpm
Max. torque	140 - 200 Nm
Power	5.5 kW
Max. power	10.4
Max. speed	2200 rpm
Max. torque	140 - 200 Nm

## TECHNICAL DATA

Type	Z 100	Z 110	Z 120	Z 130	Z 140
Number of cylinders	4	4	4	4	4
Bore x stroke (mm)	100 x 100	100 x 100	100 x 100	100 x 100	100 x 100
Piston displacement (cm <sup>3</sup> )	47.57	47.57	47.57	47.57	47.57
Max. torque (Nm)	140	150	160	170	180
Max. torque (hp) (2200 rpm)	10	11	12	13	14
Rated speed (rpm)	2200	2200	2200	2200	2200
Rated power (kW)	5.5	6	6.5	7	7.5
Max. power (kW)	10.4	11	12	13	14
Length (mm)	420	420	420	420	420
Width (mm)	340	340	340	340	340
Height (mm)	210	210	210	210	210
Weight (kg)	100	100	100	100	100

According to ISO 9000:1994, 24

The first diesel company (BMW) (BMW) is the biggest manufacturer of Diesel engines in Germany, having a tradition in producing the engines for many years. As soon as in 1930 when engines for cars were produced here. Despite that the programme was being extended for manufacturing engines for aircraft and motorcycles. In large industrial engines as well as other products of the last 60 years engines in tractors from 20 TON that have been produced here since 1944 without any interruption received the largest orders, more than 1.5 million per year from around the world.

BMW engines have ability in factors, torque, speed, consumption and both moving machines, generators, mobile working sets, generating sets, pumps, etc., propulsion sets for boats, auxiliary sets for ships and in other kinds of machinery and equipment.

The manufacturer can deliver the engines with wide range of equipment in accordance with the customer's request. With a large engine series accessories up to aggregates consisting of engine, turbo, etc. in a frame with a control equipment. Besides, BMW-DIESEL delivers also sets in generator sets and pumping units. In addition to the development of these engines and instructions to them the firm is busy also with improving the engines aimed at complying with existing engine regulations and especially with the future emission of alternative fuels.

Within the framework of the fundamental modernization of the production base a new working engine programme that has just been completed it is equipped with automatic production lines, a number of other specialized machine tools, for measuring and testing assemblies and other technological equipment from renowned foreign manufacturers.

The basic principle which is substantial in the design of BMW engines is to ensure maximum safety of critical parts within the respective engine series when reliability includes an exceptional degree. The structural design is finished with an extensive and perfectly implemented set of existing series primary standards 20-25% over world.

The experienced staff of technicians and workers of BMW (BMW), pays maximum efforts to fulfil the demands of its customers. Our people are ready to equip our engines according to your requirements, to modify the engines to all system-operational conditions and ultimately performance of finishing your projects of equipping our engines in your products in such a way that they serve you faithfully and successfully.

 **BMW DIESEL**

