



In-Built Four-Stroke Diesel Engines ZETOR 7701



APPLICATION

The Zetor 7701 engine is designed as a source of mechanical energy for tractors, agricultural and forestry machines. Its characteristics can be widely employed for driving various sets and its intended work too.

DESCRIPTION

The Zetor 7701 engine belongs to the in-built series of tractor engines, manufactured by Zetor, Znojmo Works (Czechoslovakia). The Zetor 7701 is a four-cylinder, four-stroke water-cooled diesel engine with direct fuel injection. The cylinder is of cast-iron grey cast iron, making the cast part of which is designed as a bearing for crank shaft. The engine cylinders are water-cooled. There are two independent circuits: heat for water, whereas the cooling system is of forced circulation. Chemical water pump delivers the lubrication system is of forced circulation type with a thermostat in a connection with mechanical fan drive. Reinforcing air intake duct in the front with shock spring and breathing duct also.

NOMINAL DATA

Size	for tractor, water-cooled Diesel engine with direct fuel injection
Max.	100
Stroke	100

Compressor ratio		1.8
Number of cylinders		4
Hydraulic capacity	cm ³	1000
Capacity of the engine after starting for 30 hours with maximum oil consumption		
— generator	cm ³	50
— fuel system	cm ³	2000
Max. fuel consumption at the above output	g. kWh ⁻¹	240
Maximum torque	Nm	140
Maximum value of torque according to ISO 1585:1975 at 1500rev. min ⁻¹		
Max. rev.	rev. min ⁻¹	3000/3600
Max. piston speed	m/s	8.5
Mean effective pressure	bar	11.0—12.0
Stroke/cylinder	mm	58.4
Cylinder ratio		1.10/1.05/1.0
Weight of engine without oil and water	kg	100
Oil sump for exchange	l	1.5

DESCRIPTION

- 1 Fuel injection system
- 2 Fuel delivery pump
- 3 Oil 1500 Series 40 water thermostat pump for water circulation, thermostat valve in thermostat tank
- 4 Fuel scavenging
- 5 Injection system control
- 6 Piston ring
- 7 Oil 1500 Series 40 oil sump for the generator
- 8 Mainshaft
- 9 Timing belt and timing



CHARACTERISTICS

Characteristics, without guarantee of the engine equipped with the listed accessories list for, are shown with guarantee, without others, or listed.



Rated output	100
Speed	2500
Rated consumption	g/kWh * 7



WORKING, MAINTENANCE AND STORAGE

The purchaser should, in working and starting conditions and fluids according to the technical conditions. The operating conditions allowed the engine are marked in individual cases. If the engine should be used for use over 8000 h or after out of operation for a longer period, it must be prepared against rust and other measures to ensure of long-term operation according to the supplier's instructions.

The accessories are painted to match the color included in the color print of the engine and all accessories are to be coordinated to the color. The engine also in the engine part, not a case.

TYPE OF ENGINE

The above type may be equipped, in accordance to the customer's wish, with a pump for the filter. Special accessories and special configurations of the engine should always be agreed with the manufacturer.

ORDERING DATA

- Model of the engine
- Number of valves
- Requirements for special accessories or the information for which kind of machine the engine is required.

Manufacturer:

ZBROJOVKA BRNO

656 17 Brno, Lazaretní 7

ČSFR

Telephone: 0042 05 692

Telex: 62260 zbroj c

Fax: 0042 06 67 67 91

MAKİNA ELEKTİRİK EVİ
LIMITED ŞİRKETİ
Sermayesi : 15.000.000 TL.
Sicil Ticaret : 38659/8894
Telefon : MAKELİS - İstanbul
MERKEZ : ANKARA

AMERICA
MÜDÜRLÜK

IMPORTANT :
PLEASE NOTE
NEW ADDRESS :
Necatibey Cad. No. 319
03002 Karamürşit/İstanbul



ZBROJOVKA BRNO
656 17 BRNO, LAZARETNÍ 7, ČSFR

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