

Fig. 39. Air-cooled petrol engine  
(Type: D 6 / one-cylinder four-  
stroke engine / 6 h.p. - Manu-  
facturer: Berning)

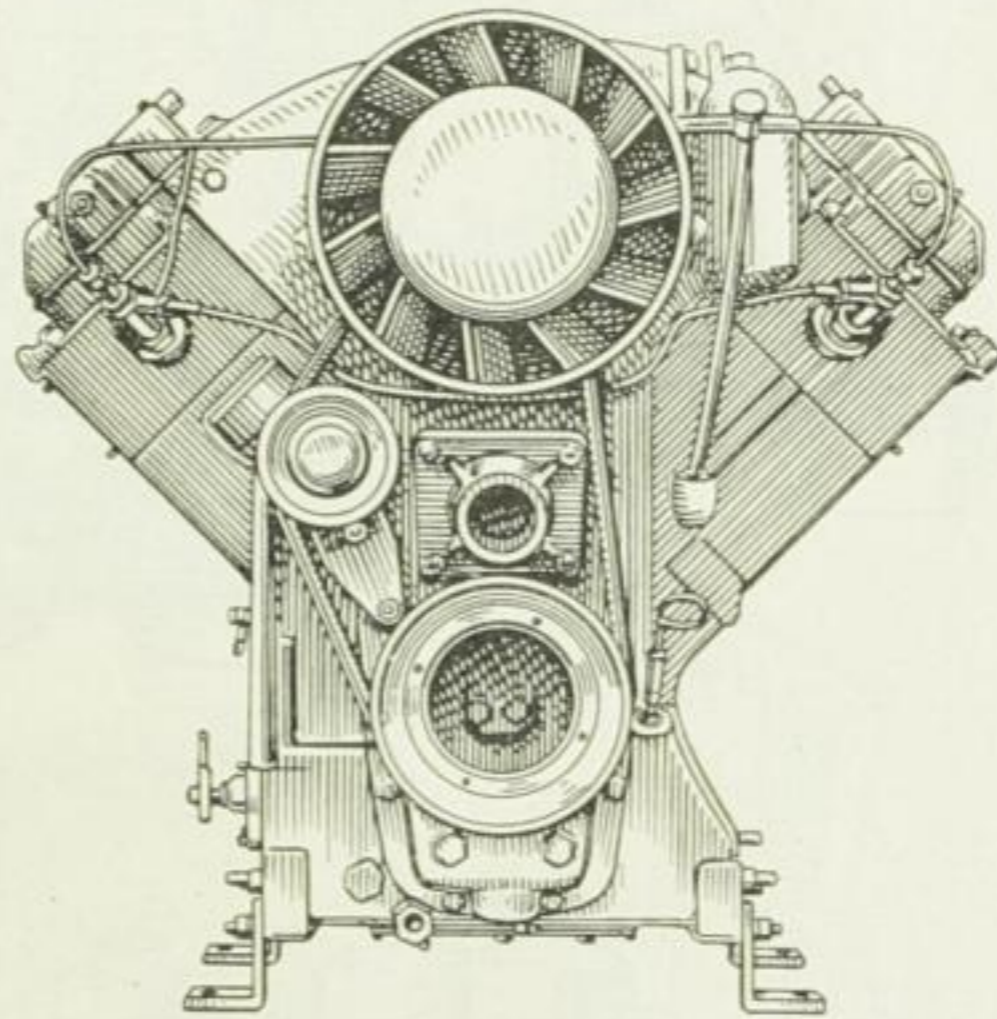


Fig. 40. V-engine of the implement  
carrier type RS 09 (Type: FD 21 / two-  
cylinder Diesel engine / 18 h.p. / swept  
volume 1,020 cm<sup>3</sup> - Manufacturer: VEB  
Traktorenwerk Schönebeck)

Three-, four- and multi-cylinder engines are normally designed as in-line engines (Fig. 41), the cylinders being separated from each other or combined into one block. A cylinder arrangement of individual cylinders separated from each other is primarily used in air-cooled engines (Fig. 42).

The major units of construction of internal-combustion engines are:

- the engine block,
- the crank assembly  
(piston, connecting-rod and crankshaft),
- valve gear  
(camshaft, valves and valve-operating mechanism),
- the auxiliaries  
(carburettor or Diesel fuel-injection equipment, fuel system, air filter, ignition system or heater plug assembly, lubrication system and cooling system).