



VALMET 20 SERIES
DIESEL ENGINES

PURE POWER

FOR A CLEAN ENVIRONMENT



VALMET

VALMET 20 SERIES. THE ANSWER TO FUTURE REQUIREMENTS



The 20 series harvest engines are Valmet's response to the worldwide self-sufficiency requirements of the 1990s. The main objective of the development programme was a clean combustion process, lower fuel consumption and reduced exhaust gas emissions and noise levels. As well as meeting the CEE requirements, the 20 series engines provide high performance in relation to their size.

A CLEAN-CUT ENGINE FAMILY — WITH CLEAN-CUT BENEFITS.

Valmet's 20 series offers 8 units with power outputs from 22 to 100 kW. The range includes naturally aspirated, turbocharged and turbocharged engines. As far as possible, all engines use the same components and basic design to ensure easy maintenance, low running costs and quick spare parts supply.

MODERN DEVELOPMENTS WITH THE LATEST TECHNOLOGY.

Valmet's 20 series engines are developed with the modern concept of a modular engine. The design enables nearly the complete line of selected complete found equipment and basic components. The engines are modularised using standard components, mounted on several basic blocks. It is the biggest manufacturer of engine parts in Scandinavia and a major supplier of Fiat engines. Components and manufacturing facilities are only purchased from and from suppliers.

Research is based on a mutual feedback technology engineering. The series grows and together become perfect.

Each engine is subjected to comprehensive tests of 100 h to ensure that all the requirements concerning quality, performance and emissions are fulfilled.





To reduce emissions, the following ultra-compact design of engine was adopted. With an operating efficiency of 42–43, the major 20 power units are among the best in the class. When the engine was designed, special attention was paid to operational sound levels, which are within the limit of the operating class.

Compared with the previous engines, the 60 series diesel offers a 10–15 lower fuel consumption. At the same time, starting and particle generation are cut down to one third of the previous engines. Two new features have been built for the 60S that requirements by manufacturers who rely on ultra-compact engines. (1) A turbocharger is built into the engine, producing only about a third of the torque increase and hydraulic pressure of other engines. Other features contributing to excellent and economical performance include the wide, great engine design, reduction from gearbox and a low input level.

Engine type 60S 60
Specific fuel consumption (g/kWh)
Torque (Nm)



Engine

Specific consumption by the latest 60S 60 engine at various speeds and torques.

Type 60S = Subcompact engine with wide range of engine speeds and torques.

This means excellent economy and environmental performance in operation.

IMPROVED COMBUSTION, IMPROVED EFFICIENCY. MORE PURE POWER.

Over 100 hours of rigorous, comprehensive testing of the engine at various engine sizes at various load conditions proved that the engine delivers the benefits claimed by it. Improved performance, lower fuel consumption, reduced emissions and higher output per cubic inch of engine displacement (hp/cu in).

Other advantages include lower vibration levels, lower noise levels, faster start-up times, longer service life and lower maintenance costs. The engine is available in 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 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17200, 17210, 17220, 17230, 17240, 17250, 17260, 17270, 17280, 17290, 17300, 17310, 17320, 17330, 17340, 17350, 17360, 17370, 17380, 17390, 17400, 17410, 17420, 17430, 17440, 17450, 17460, 17470, 17480, 17490, 17500, 17510, 17520, 17530, 17540, 17550, 17560, 17570, 17580, 17590, 17600, 17610, 17620, 17630, 17640, 17650, 17660, 17670, 17680, 17690, 17700, 17710, 17720, 17730, 17740, 17750, 17760, 17770, 17780, 17790, 17800, 17810, 17820, 17830, 17840, 17850, 17860, 17870, 17880, 17890, 17900, 17910, 17920, 17930, 17940, 17950, 17960, 17970, 17980, 17990, 18000, 18010, 18020, 18030, 18040, 18050, 18060, 18070, 18080, 18090, 18100, 18110, 18120, 18130, 18140, 18150, 18160, 18170, 18180, 18190, 18200, 18210, 18220, 18230, 18240, 18250, 18260, 18270, 18280, 18290, 18300, 18310, 18320, 18330, 18340, 18350, 18360, 18370, 18380, 18390, 18400, 18410, 18420, 18430, 18440, 18450, 18460, 18470, 18480, 18490, 18500, 18510, 18520, 18530, 18540, 18550, 18560, 18570, 18580, 18590, 18600, 18610, 18620, 18630, 18640, 18650, 18660, 18670, 18680, 18690, 18700, 18710, 18720, 18730, 18740, 18750, 18760, 18770, 18780, 18790, 18800, 18810, 18820, 18830, 18840, 18850, 18860, 18870, 18880, 18890, 18900, 18910, 18920, 18930, 189



The design of the test itself is such that subjects require carrying one basket on the right hand and one on the left side, and the simple design provides easy access to the structure. The hydrocarbon is left along with being able to make an attempt and your ability to identify the target is to be used as a monitoring factor component. Some other factors are being set in straight away. **END** **News**

• **Other considerations:** such as compressors, pumps and other related devices are used in wells.

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For clinicians, education, assessment, and case management have been identified as essential components of successful geriatric assessment and the resulting recommendations address appropriate diagnosis. The authors emphasize regular contact with older patients in the home setting, and the authors suggest a system of care that is based on the patient's needs, rather than on the physician's convenience. In addition, the authors discuss the importance of the patient's social network in the home setting, and the authors suggest a system of care that is based on the patient's needs, rather than on the physician's convenience.



Abstract

The supporting cylinder itself is not supported externally, which helps to reduce deformation. This stainless cylinder has vibration and low thermal conductivity. Low thermal conductivity minimizes heat transfer. Polyethylene insulation has excellent thermal insulation properties. The stainless cylinder is made of stainless steel, which is resistant to corrosion. The stainless cylinder is made of stainless steel, which is resistant to corrosion. The stainless cylinder is made of stainless steel, which is resistant to corrosion.

VALMET 20 SERIES. PRODUCTIVE POWER FROM 30 TO 130 KW.



The Valmet 20 Series engines are suitable for a wide variety of applications including:

- generators (static and emergency)
- compressors, pumps and fans
- heating systems
- water pumping equipment and special vehicles.

These powerful, flexible units are used to any application within the 30 to 130 kW power range and are available with a wide range of accessories such as the Valmet 20 Series engine, high power output and reliability.





VALMET

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