



KOLLER

SOLUTIONS

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SOLUTION
CARD N° **M 91341**

BUSINESS
UNIT

High-Pressure Power Units

Special Machines

Other

Well Servicing Products

Structural Steelwork

CUSTOMER

Halliburton Italy

CHALLENGE

Develop a lightweight but powerful pump unit for offshore use in accordance with ATEX-, DNV- and CE-Regulations as well as noise restrictions

SOLUTION

KOLLER K1 Pump Unit



The new KOLLER K1 Pump Unit is mainly developed for offshore cementing and circulation jobs but also a lightweight, compact solution for onshore operations.

Two separate but easy connectable containers result in a high-performance pump unit, packed with the latest but proven technology.

The K1 is movable connected or separately and thus a perfect solution for each well site.

Technical Specification:

- MTU 12V 2000 P92 Motor, 700 kW / 938 hp
- Allison S9806M transmission
- HT-400 pump, max. 15,000 psi / 1,034 bar
- Quick locking device for easy mounting and dismounting of the containers
- CE certified, 94/9/EC (ATEX 95)
- Zone II 3 G IIA T3
- DNV 2.7-1, En BS 12079 & complete DNV approval
- Max. 27,600 lbs / 12,52 t per container
- Operation with light portable



Dimensions of K1 Pump Unit:

Total length (Motor- / Pump Container)	9,750 mm (5,250 mm / 4,460 mm)
Width	2,000 mm
Height	2,600 mm
Gross weight (Motor- / Pump Container)	ca. 54,100 lbs/ 24,54 t (ca. 27,600 lbs/ 12,52 t ca. 26,500 lbs/ 12,02 t)



Flow Rate / Pressure:

Shift 1	240 – 300 l/min / 15,000 psi
Shift 2	330 – 458 l/min / 10,900 psi
Shift 3	410 – 560 l/min / 8,900 psi
Shift 4	510 – 700 l/min / 7,150 psi
Shift 5	570 – 780 l/min / 6,400 psi
Shift 6	715 – 975 l/min / 5,130 psi
Shift 7	900 – 1,235 l/min / 4,050 psi

Values are valid for 2,100 rpm (engine)
and power input of HT-400 of 800 hp / 590 kW



Technical Data:

Engine power	938 hp / 700 kW
Shift Engine Speed	2,100 rmp
Hydraulic reservoir	150 l
Fuel reservoir	1.000 l
Lubrication reservoir	70 l
Fuel consumption	50% power (350 kW) ~ 90 – 95 l/h 100% power (700 kW) ~ 180 – 190 l/h
Ambient temperature	-20°C/ +40°C

