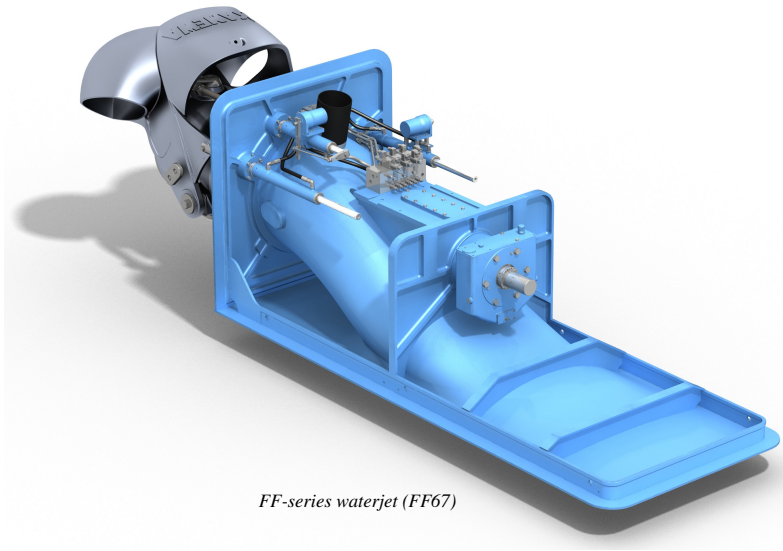
Fact sheet

Rolls-Royce

Kamewa FF - series

The FF-series waterjets are as tough as jobs they were created for



FF-series waterjet (FF67)

Robust reliability

Kamewa FF-series waterjets cover the power range between 100 and 2000 kW. Typical applications include naval craft, search and rescue boats, pilot boats, work boats and pleasure boats.

The FF-series waterjet units are manufactured from strong, corrosion-resistant materials. Only the impeller, shaft and steering/reversing rods are made of stainless steel. All the other components are of aluminium construction based on thorough strength calculations to minimise weight.

The inlet duct is fabricated from marine aluminium plate for light weight, optimum hydrodynamic performance and resistance to corrosion.

The pump is a single-stage axial-flow design providing a high volume flow with good pulling thrust in a wide speed range. Usually, the FF-series jets do not require reduction gears.

All FF-series waterjets can also be supplied as booster units i.e. jet units without steering components.

On delivery, the Kamewa FF-series waterjets are painted and complete with structurally dimensioned inlet ducts for easy installation by bolting or welding.

Rolls-Royce - the professional supplier

Rolls-Royce is the world leader in research, development and manufacture of waterjets for commercial, naval and pleasure-boat markets. It is also the only supplier in the industry with its own, fully equipped hydrodynamic research centre. The centre continuously develops and tests new products and refines the existing product line.

All Kamewa FF-series waterjets are produced using the latest 3D CAD/CAM tools to ensure high level of quality and accuracy in design and manufacturing.

Rolls-Royce also utilises its own proprietary, computerised design program, which contains the latest waterjet technology data combined with the actual results from earlier waterjet installations.

Aided by this program, individual influences and the combined effect of all the existing outlet diameters and blade pitch angles will be studied to optimise the performance of every installation.

Kamewa FF-series sets new standards for small and medium-size applications of waterjets in terms of performance, economy and reliability.

Wherever you are, Rolls-Royce´s global service network will be there to provide extensive through-life support for Kamewa waterjets.

PROFESSIONALS CHOICE

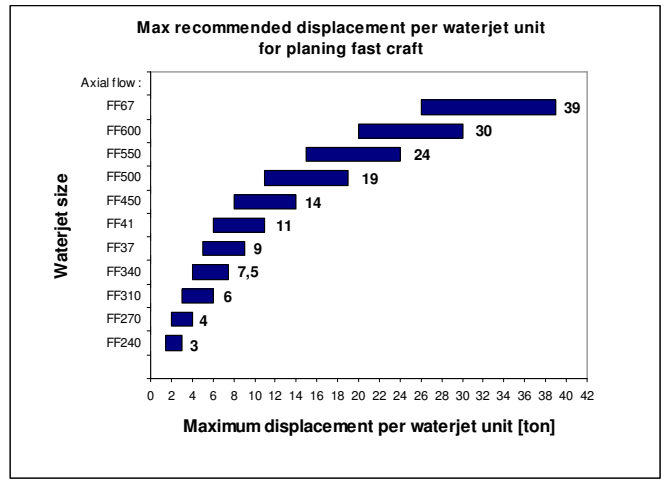
Fact sheet

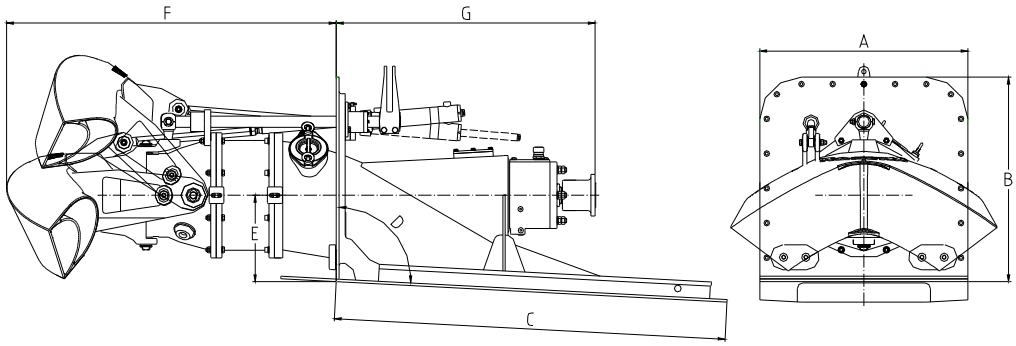
Displacement table

*) The table should be used for guidance only and based on appropriate hull size and weight ratio and hull lines. Best performance will be achived by selecting a larger waterjet size for craft displacements entering into the shaded area.

The waterjet unit can be installed on both displacement and planing crafts as single, twin, triple or quadruple systems. Displacement hull application require a larger jet diameter than a fast planing hull at same power.

Consult Rolls-Royce in all cases for a size selection.





Waterjet size	Max sprint power [kW]	Max shaft speed [rpm]	Dimensions [mm] A	B	C	D	E	F	G	Weight dry unit [kg]	Entrained water inside transom [liters]
FF240	260	4000	410	574	855	93°	274	885	400	124	25
FF270	370	3500	430	541	1060	93°	231	816	551	155	28
FF310	500	3000	520	651	1203	93°	291	1065	626	242	40
FF340	530	2800	650	700	1070	93°	285	1107	676	270	52
FF37	700	2500	750	724	1660	93°	299	911	1144	325	145
FF41	1000	2300	860	803	1943	93°	327	1049	1338	485	192
FF450S	1100	2100	880	842	1585	93°	360	1202	1081	510	175
FF500	1400	1900	950	970	2200	90°	450	1333	1525	840	350
FF550	1500	1650	1100	1045	2400	90°	460	1265	1963	960	395
FF600	1800	1510	1150	1150	2800	90°	540	1552	1863	1325	495
FF67	2000	1360	1280	1287	3220	90°	603	1592	1920	1500	703

The data is subject to change by the manufacturer without prior notice

SUPERIOR EFFICIENCY

Rolls-Royce

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