



GREAVES

FIREFIGHTING ENGINES

Keeping fire emergencies at bay

Leaders in engines for firefighting pumps

Ensuring sufficient water supply at the right pressure in a fire emergency is critical to any firefighting equipment. Our engines that power firefighting pumps have been doing this efficiently for over five decades. Our expertise in the field combined with sturdiness and reliability of our products make us a preferred brand among OEMs and dealers. Today, we have 7000+ engines installed on ground – one of the largest in firefighting products. We offer engine

solutions that suit pumps with flow rate ranging from 97 - 1000 m³/hour. We also work with all types of pumps such as end suction, centrifugal, multistage split ends, vertical turbines and so on. Hardly surprising, that we are the market leaders in the segment – commanding major market share. Our nationwide network of over 130 service centres manned by professionals ensure that our customers get prompt after-sales service and uninterrupted support.





One name you can always depend on

Dependability is critical when it comes to firefighting pumps. Which is why we are committed to delivering the best engines consistently.

Our state-of-the-art manufacturing facility manned by experts ensure that we conform to stringent safety standards, including UL, FM, TAC and NFPA 20 norms. Over the years, we have been catering to the varied needs of our customers by adopting a consultative approach to problem solving. We go beyond providing the right product solutions, by offering design and

development support as well. Our clientele includes customers from Building segment, Oil & Gas Industry, Power, Cement, Irrigation, Coal and so on. All major OEMs across the globe and PSUs are our direct customers whom we have been serving for more than five decades. Even post installation, we extend our support through timely factory or site inspections at regular intervals, hands-on maintenance training to site technicians, and 24 x 7 after-sales service.

Wide range of engines for varied needs

Firefighting needs vary and require specific solutions. We understand this and offer an extensive range of engines.



4G11 SERIES
Power (HP): 102-170

Characteristics	Key features	Optional accessories
• Wide range and RPMs • Best-in-class fuel consumption • Individual cylinder heads • Smaller footprint • Power dense engines • Commonality of parts • Long life with superior technology • HE cooling capability	• Deep skirted crankcase • Individual cylinder heads • Optimised gear train • HE cooled engines • 24 x 7 service support • Integral oil cooler • Gear driven integral water pump • Wet cylinder liners	• 24V options for 3G/4G series • Duplex filter • Residential silencer • Spark arrestor • Cold starting aids • Electronic governor • Variable speed engines • Industrial continuous duty engines

Engine model	Unit	3G11	4G11	6G11	D3V6	D3V8	12V14
Power	HP	38-85	94-167	172-260	313-332	355-420	485-640
Rated speed	rpm	1500-2500	1500-2400	1500-2100	1500-1800	1500-1800	1500-1800
Bore	mm	108	108	108	128	128	115
Stroke	mm	133	133	133	130	130	135
Engine configuration	-	Inline	Inline	Inline	V-60	V-60	V-60
Working principle	-	4-Stroke	4-Stroke	4-Stroke	4-Stroke	4-Stroke	4-Stroke
No. of cylinders	-	3	4	6	6	8	12
Total swept volume	Litre	3.7	4.9	7.3	10.03	13.4	16.8
Combustion type: DI / IDI	-	DI	DI	DI	DI	DI	DI
Cooling	-	Radiator/Heat Exchanger for all engine types					
Compression ratio	-	17	17	17	16.8	16.8	16.8
Aspiration	-	NA/T	T/TCA	T/TCA	TCA	TCA	TCA
Governing type	-	Mechanical			Electronic		
Direction of rotation	-	Anti-clockwise looking at flywheel					
Weight (Dry) without accessories	kg	385-390	470-500	650	1050	1280	1430
Electrical system		12V/24V	12V/24V	24V	24V	24V	24V
Winterization required	-	Not required upto 0 degrees					
Engine noise at 1.5 metre	dB (A)	105					

- Abbreviations: NA – Natural Aspirated, TC - Turbocharged, TCA - Turbocharged after cooled
- Engines rating declared above are for stationary emergency standby fire pump application only
- Above ratings are gross rated power which engine develops at the rated RPM without any deductions
- Deration as per site condition would be applicable
- Engines should be operated strictly as per Greaves recommendations and installation guidelines for firefighting pump application

TAC and NFPA 20 compliant

Greaves UL-FM listed engines

Greaves presents UL-FM listed engines across the range for enhanced safety for domestic and exports markets.

Model	G03GI-UF05				
Speed (RPM)	1470	1760	1960	2100	2350
Power (HP)	38	42	45	45	51
Power (kW)	28	31	34	34	38

Model	G03GI-UF08				
Speed (RPM)	1470	1760	1960	2100	2350
Power (HP)	75	80	75	75	76
Power (kW)	56	60	56	56	57

Model	G04GI-UF12				
Speed (RPM)	1470	1760	1960	2100	2350
Power (HP)	105	120	115	125	125
Power (kW)	78	89	86	93	93

Model	G04GI-UF15				
Speed (RPM)	1470	1760	1960	2100	2350
Power (HP)	154	154	140	155	155
Power (kW)	115	115	104	116	116

Model	G06GI-UF20				
Speed (RPM)	1470	1760	1960	2100	2350
Power (HP)	175	198	198	191	181
Power (kW)	130	148	148	142	135

Model	G06GI-UF26				
Speed (RPM)	1470	1760	1960	2100	2350
Power (HP)	254	260	242	240	245
Power (kW)	189	194	180	179	183

Model	G06DV-UF34			
Speed (RPM)	1470	1760	1960	2100
Power (HP)	315	330	310	310
Power (kW)	235	246	231	231

Model	G08DV-UF42				
Speed (RPM)	1470	1760	1960	2100	2350
Power (HP)	396	416	400	410	385
Power (kW)	295	310	298	306	287



Key features

- Widest available UL/FM approved range
- Highly reliable raw water cooling circuit meeting NFPA 20 requirement
- UL approved engine mounted instrument panel
- Jacket water heater
- DC battery contactors
- Protection guards for rotating and high temperature parts
- Fire resistant fuel hoses

Engine model	G03GI-UF05	G03GI-UF08	G04GI-UF12	G04GI-UF15	G06GI-UF20	G06GI-UF26	G06DV-UF34	G08DV-UF42
Power (HP)	38-51	75-80	105-125	140-155	175-198	240-260	310-330	385-416
Rated speed (RPM)	1470-2350	1470-2350	1470-2350	1470-2350	1470-2350	1470-2350	1470-2100	1470-2350
Type	4 stroke, direct injection, compression ignition							
Bore	108						128	
Stroke	133						130	
Cylinder	3		4		6		6	8
Rotation	Anti-clockwise looking at flywheel							
Total volume (Ltr)	3.70		4.90		7.30		9.96	17.84
Aspiration	NA	TC	TC	TCA	TC	TCA	TCA	
Cooling	Heat Exchanger							
Compression ratio	17						16.8	
Starting	Electric start (12 VDC)				Electric start (24 VDC)			
Overload	10% overload as per FM class number 133/UI1247							
Water pump	Centrifugal, gear driven						Impeller, belt driven	
Lube oil pump	G-rotor, gear driven						G- rotor, gear driven	
Charging alternator	Belt drive							
Coolent grade	Greaves maxtherm or equivalent ASTM-D6210							
Lube oil grade	CI4/CI4+ 15W40							
Lube oil cooled by	Plate type oil cooler							
Lube oil change	After 500 hrs. of operation/running							
Fuel used	ASTM D975-03 No.2-D/BS 2869 Class A2/equivalent							
Fuel filter size	10 to 15 micron							
Governing	Mechanical							
Air filter	Dry type, with filtration capacity 10 micron							
Overall dimension	795x812x1110	795x812x1110	900x805x1030	900x805x1030	1635x832x1095	1635x832x1095	1894x1500x1750	1895x1440x1641

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Power

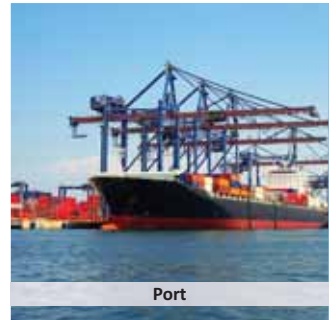


Oil



Steel

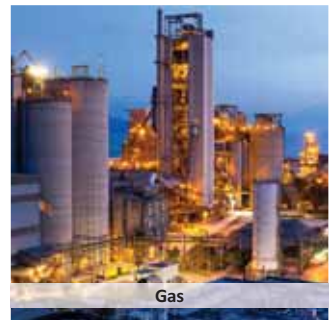
**Leaders across industries rely
on Greaves firefighting engines
for performance and safety**



Port



Infrastructure



Gas

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Note : Due to continuous development and product improvement, specifications/details in this leaflet are subject to change without prior notice.

