

EXCALIBUR ENGINES



Smooth & Reliable Pulling Rope of Recoil Starter

Emboss Customized Logo for Fuel tank



Injection Pump "NJ" Brand

Belongs to BOSCH group



Starting motor 100% copper core

Electric Start





EXCALIBUR engine series are widely used in many application such as construction site by powering Road Roller, Tamping Rammer, Scarifying Machine, Concrete Cutter, Power Trowel; It also can be used as the power in Diesel&Welder generators, diesel water pumps, diesel power tillers etc.

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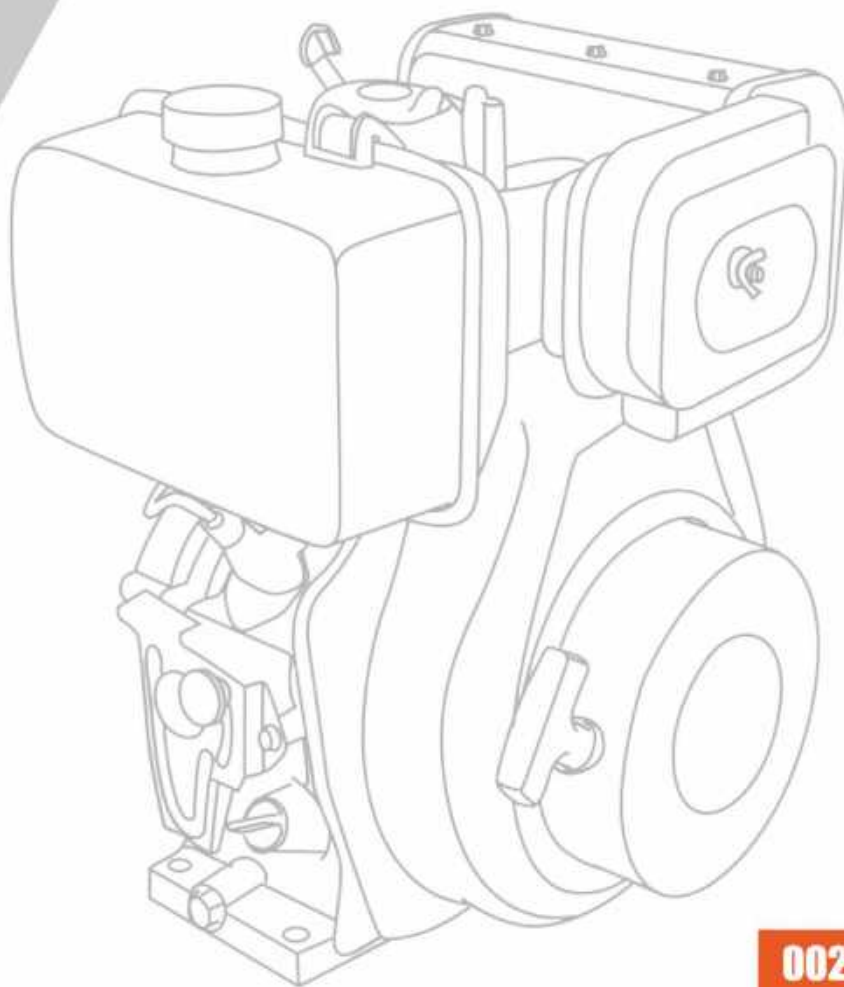
DIESEL ENGINE

006

GASOLINE ENGINE

008

KEROSENE&LPG ENGINE

**002**

Diesel Engine

- S173F(E)
- S178F(E)
- S178FS(E)
- S186FA(E)
- S186FAS(E)
- S188FB(E)
- S190F(E)
- S192F(E)
- S192FS(E)
- S195F(E)



EXCALIBUR diesel engine series are widely used in many application such as construction site by powering road roller, tamping rammer, scarifying machine, concrete cutter, power trowel. It also can be used as the power in diesel&welder generators, diesel water pumps, diesel power tillers etc.

S186FA(NEW) ●

Model	S173F(E)	S178F(E)	S186FA(E)	S188FB(E)	S190F(E)	S192F(E)	S195F(E)	S178FS(E)	S186FAS(E)	S188FBS(E)	S192FS(E)
Type	Air-cooled, 4-stroke, single cylinder, vertical										
Bore*Stroke (mm)	73*58	78*62	86*72	88*75	90*75	92*75	95*75	78*62	86*72	88*75	92*75
Displacement (cc)	243	296	418	456	477	498	531	296	418	456	498
Combustion system	Direct Injection										
Rated output kw (hp)/rpm	3.5(5.5)/3000	3.8(5.1)/3000	5.7(7.8)/3000	6.1(8.2)/3000	7.1(9.7)/3000	7.5(10.2)/3000	8.5(11.6)/3000	3.8(5.1)/1500	5.7(7.8)/1500	6.1(8.2)/1500	7.5(10.2)/1500
	3.8(6.0)/3600	4.4(5.9)/3600	6.6(8.9)/3600	7.3(9.8)/3600	8.4(11.4)/3600	8.5(11.5)/3600	9.0(12.2)/3600	4.4(5.9)/1800	6.6(8.9)/1800	7.3(9.8)/1800	8.5(11.5)/1800
Max output kw (hp)/rpm	3.8(5.2)/3000	4.0(5.36)/3000	6.3(8.6)/3000	6.83(9.2)/3000	7.9(11.8)/3000	8.0(10.9)/3000	9.0(12.2)/3000	4.0(5.36)/1500	6.3(8.6)/1500	6.83(9.2)/1500	8.0(10.9)/1500
	4.05(5.5)/3600	4.9(6.6)/3600	7.3(9.9)/3600	8.2(11.0)/3600	9.3(12.7)/3600	9.0(12.2)/3600	9.5(12.9)/3600	4.9(6.6)/1800	7.3(9.9)/1800	8.2(11.0)/1800	9.0(12.2)/1800
Direction of rotation	Counterclockwise, facing PTO shaft										
Fuel	0#(summer) / -10#(winter)										
Fuel tank capacity (L)	2.5	3.5	5.5	5.5	5.5	5.5	5.5	3.5	5.5	5.5	5.5
Lubricating oil capacity (L)	0.75	1.1	1.65	1.65	1.8	1.8	1.8	1.1	1.65	1.65	1.8
Lubricating system	Pressure splashed										
Starting system	Recoil starter/ Electric starter										
Packing size (mm)	420*380*460	490*440*500			510*460*540			490*440*500		510*460*540	
Net weight	27	35	48	49	50	52	53	35	48	49	52

Model	S1100FE		S1103FE		S1105FE	
Borexstroke (mm)	100*84		103x88		105x88	
Displacement (cc)	660		720		762	
Engine speed (rpm)	3000	3600	3000	3600	3000	3600
Max.output (kW)	9.8	10.5	12	12.5	12.5	12.5
Continuous output (kW)	9.1	9.8	11.5	11.5	12	12
Fuel type	0#-10#Light Diesel					
Starting system	Electric Starter					
Fuel tank capacity (L)	5.5		5.5		8.5	
Lube oil capacity (L)	2.5		2.5		2	
Fuel Consumption (100% load)	≤245g/kw.h					
Dimension (mm)	510x500x590		515x455x545		545x620x725	
Net weight (kg)	57		60		62	



- S1100FE
- S1103FE
- S1105FE



● S170FA

Model	S170FA
Type	Air-cooled, 4-stroke, single cylinder, horizontal
Bore*Stroke (mm)	70*60
Displacement (cc)	231
Combustion system	Direct injection
Rated output kW (hp)/rpm	3.2(4.4)/3000
	3.5(4.8)/3600
Max output kW (hp)/rpm	3.8(4.8)/3000
	4.05(5.2)/3600
Direction of rotation	Counterclockwise, facing PTO shaft
Fuel	0#(summer) /-10#(winter)
Fuel tank capacity (L)	3
Lubricating oil capacity (L)	0.75
Lubricating system	Pressre splashed
Starting system	Recoil starter/ Electric starter
Packing size (mm)	420*380*460
Net weight	23

OPTIONAL CONFIGURATION



Taper Shaft



Key Shaft



Spline Shaft



Oil Bath Type Air Cleaner

V-Twin Diesel Engine

2 Cylinder



- S2V88FE
- S2V92FE
- S2V95FE



- S2V98FE



- S2V100FE
- S2V105FE

Model	S2V88FE		S2V92FE		S2V95FE		S2V98FE		S2V100FE		S2V105FE	
Engine type	Two cylinder, "V", 4-stroke, air-cooled, Direct Injection											
Bore*stroke (mm)	88*75		92*75		95*88		98*88		100*88		105*88	
Displacement (L)	0.912		0.997		1.247		1.326		1.382		1.523	
Compression ratio	20: 1		20: 1		20: 1		20: 1		20: 1		20: 1	
Rated output (kW/rpm)	14/3000	15/3600	15/3000	16/3600	19/3000	20/3600	20/3000	21/3600	21/3000	22/3600	23/3000	23.5/3600
Fuel type	0 # (Summer) -10 # (Winter) , -35 # (Very cold) Diesel											
Lubricating oil type	SAE10W30(CD magnitude)				SAE15W40(CF grade above)							
Lube[L(US.gal)]	2.7		3.2		3.2		4		3.2		3.2	
Way to work	12 hours of continuous operation											
Fuel Consumption (100% load)	≤250g/kw.h											
Fuel tank capacity (L)					12.5				12			
Noise level (7m) db (A)	80		82		85		85				82	
Starting system	Electric start											
Packing size (L*W*H) mm	640*640*845		640*640*845		640*640*845		640*640*845		640*640*845		660*640*845	
Net weight (kg)	83		90		91		92		92		93	



- SL292FE

Model	SL292FE
Engine type	Inline, 2-cylinder, air-cooled, 4-stroke
Bore*stroke (mm)	2-92*75
Displacement (L)	0.997
Compression ratio	20: 1
Rated output (kW/rpm)	14/3000 15/3600
Fuel type	0 # (Summer) -10 # (Winter) , -35 # (Very cold) Diesel
Lubricating oil type	SAE10W30(CD magnitude)
Lube[L(US.gal)]	4.2
Way to work	12 hours of continuous operation
Fuel Consumption (100% load)	≤250g/kw.h
Fuel tank capacity (L)	6.5
Noise level (7m) db (A)	82
Starting system	Electric start
Packing size (L*W*H) mm	420*480*590
Net weight (kg)	78



● S200



● S200E



Model	S200	S210	S240	S270	S390	S420	S460
Engine Type	Air-cooled, 4-cycle, single cylinder, side valve						
Bore X Stroke (mm)	68 x 54	70 x 54	73 x 58	77 x 58	88 x 64	90 x 66	92 x 70
Displacement (cc)	196	210	243	270	389	407	465
Compression Ratio	8.5 : 1	8.5 : 1	8.2 : 1	8.2 : 1	8:1	8:1	8:1
Max. Power Output (HP/rpm)	6.5 /3600	7.0 /3600	8 /3600	9 /3600	13 /3600	15 /3600	16/3600
Max. Torque (N.m/)	13.2	14	16	19.1	26.5	28	28
Ignition System	Ignition System Non-contact transistorized ignition (T.C.I)						
Starting System	Recoil/Electric						
Air Cleaner	Semi-dryoil bath, dual, double silent and cyclone type						
Fuel Tank (L)	3.6	3.6	6	6	6.5	6.5	6.5
Oil Capacity (L)	0.6	0.6	1.1	1.1	1.1	1.1	1.1
Fuel Consumption (g/kw-hour)	≤395					≤374	
Dimension (L* W* H)mm	390x 340x 365			490 x395x 465			
G.W/NW (Kg)	16/15		26/25	28/26	35/33	36/34	38/35



Gasoline Engine



● S20



● S28D



● S32D

Model	S20	S28D	S28B	S32D	S32B
Type	Air-cooled, 4-cycle, single cylinder, side valve				
Bore*stroke (mm)	67*52	75*62	75*62	77*67	77*67
Displacement (cm ³)	183	273	273	312	312
Rated output kW (HP) / rpm	2.65 (3.5) / 3600	4.2 (5.7) / 3600	4.2 (5.7) / 1800	4.7 (6.4) / 3600	4.7 (6.4) / 1800
Max output kW (HP) / rpm	3.73 (5.0) / 4000	5.91 (8.0) / 4000	5.91 (8.0) / 2000	6.46 (8.8) / 4000	6.46 (8.8) / 2000
Direction of rotation	Counterclockwise, facing PTO shaft				
Fuel	Automobile Gasoline unleaded				
Fuel tank capacity (L)	3.8	5.5	5.5	5.5	5.5
Lubricating oil capacity (L)	0.6	0.85	0.85	0.85	0.85
Spark Plug	E6TC	E6TC	E6TC	E6TC	E6TC
Starting System	Recoil starter				
Packing size (L*W*H) mm	380*370*425	440*380*460	445*380*490	440*380*460	445*380*490
Net weight (kg)	15	21.5	22	22.5	23

OPTIONAL CONFIGURATION



Key Shaft



Screw Shaft



Thin Recoil Starter



Square Air Cleaner

Kerosene Engine

Model	S20K
Type	Air-cooled, 4-cycle, single cylinder, side valve
Bore*stroke (mm)	67*52
Displacement (cm ³)	183
Rated output kW (HP) / rpm	2.3 (3.1) / 3600
Max output kW (HP) / rpm	3.2 (4.3) / 4000
Direction of rotation	Counterclockwise, facing PTOshaft
Fuel	Kerosene (automobile gasoline when starting >90#)
Fuel tank capacity (L)	GASOLINE 0.17 KEROSENE 3.4
Lubricating oil capacity (L)	0.6
Spark Plug	E6TC
Starting System	Recoil starter
Packing size (L*W*H) mm	380*370*425
Net weight (kg)	16



S20K ●



● S20G

LPG Engine

Model	S20G
Type	Air-cooled, 4-cycle, single cylinder, side valve
Bore*stroke (mm)	67*52
Displacement (cm ³)	183
Rated output kW (HP) / rpm	2.85 (3.8) / 3600
Max output kW (HP) / rpm	4.46 (6.0) / 4000
Direction of rotation	Counterclockwise, facing PTOshaft
Fuel	Liquefied petroleum gas
Lubricating oil capacity (L)	0.6
Spark Plug	E6TC
Starting System	Recoil starter
Packing size (L*W*H) mm	380*370*425
Net weight (kg)	16