

Forklift Series



SHANTUI®
VALUE THAT WORKS™

Shantui Construction
Machinery Co., Ltd.

ADDRESS:
No. 58 G327 Highway
Jining City, Shandong, CHINA

TEL: +86-537-2909351 2909368 2909369
FAX: +86-537-2311219
EMAIL: trade@shantui.com
WEB: www.shantui.com



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is a flagship member of the Shandong
Heavy Industry Group newly formed in 2009.

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FORKLIFT SERIES

In 2007, Shantui decided to put its **construction machinery production prowess** behind a new line of products, somewhat removed from road construction —Forklifts.

The gambit is starting to pay off some handsome dividends as the product line is quickly moving up the ladder in terms of domestic market share in China. Some models are also seeing a rise in exports, with Shantui exporting more than a thousand units in 2010, out of its total production of slightly more than 5,000 units.

The real story, however, may be the relative speed with which Shantui built the forklift line into a mature product category virtually overnight. In a short three years, it already makes a well-rounded set of six different models with several variations within each model category. The machines range in size from 2-ton to ten-ton. They come in both electric and diesel versions.

As with other products new to the company's product offerings, Shantui provides the structural parts, while most of the other parts are bought from top brand name suppliers in China. The exception is the electronic controls, which are imported from Curtis in the USA.

Several of the models are Tier III compliant, depending on engine or motor type. They all come with optional, optimal lift heights.

Overall, the forklift line is another clear demonstration of Shantui's unrivaled value proposition:

HIGH PERFORMANCE FOR EXCEPTIONAL VALUE.



SF20D ▲



Product features:

- U.S. Curtis electronic control system, provides protections for incorrect operating sequence, seat auto-power-off, drive brake steering position, and other functions, in addition to various electronic control protection mechanisms.
- The driving noise and lifting noise levels of the vehicle are reduced, helping to maintain a better work environment.
- Low-speed DC motor and low-noise gear pump for excellent performance are adopted, and steering motor and steering oil pump are eliminated, to achieve split flow using a single pump.

Technical specifications:

MODEL	UNIT	SF20D
Load capacity	kg	2000
Load center	mm	500
Power type		Battery
Overall dimensions	Full length (with fork)	mm 3445
	Full length (without fork)	mm 2375
	Full width	mm 1146
	Full height	mm 2100
	Height with mast not lifted	mm 1995
	Height with mast lifted	mm 4030
	Maximum lift height	mm 3000
	Free lift height	mm 155
	Min. ground clearance (at frame)	mm 140
Front overhang	mm	483
Wheelbase	mm	1500
Rear overhang	mm	392
Distance from seat surface to overhead guard	mm	1030
Fork adjusting range	mm	245/1020
Front wheel track	mm	960
Rear wheel track	mm	950
Minimum turning radius	mm	2050
Mast inclination	deg	6/12
Battery (voltage/capacitance)	V/AH	48/700
Drive speed	km/h	0-14
Full-load lifting speed	mm/sec	265
Maximum gradeability	%	10
Curb weight	kg	4150
Tire	Front wheel	7.00-12-12PR
	Rear wheel	18*7-8-14PR

► SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THE PICTURES MAY INCLUDE OPTIONS. THE ACTUAL COLOR AND APPEARANCE OF THE PRODUCT MAY DIFFER FROM WHAT IS SHOWN.



SF20/SF20T/SF25/SF25T ▲

Product features:

- Circular arc design, streamlined modeling, attractive external appearance and exquisite detailing. Wide view mast allowing operator to have a more full and clearer front vision.
- Steering axle shock absorption.
- Air intake is located above the overhead guard support, ensuring better engine protection from dust, helping to avoid problems with early wear.
- Built-in heat-insulation and sound-absorption material is available inside the engine hood.
- Small-type instrument panel and steering column are integrated into a whole-cab design, for a more ergonomic compartment and better vision.
- Offers multi-power selection and numerous component attachment parts.

**Technical specifications:**

FRONT SINGLE TIRE						
MODEL			Unit	SF20/20T	SF25/25T	
General	Load capacity		kg	2000	2500	
	Load center		mm	500		
	Power type			Diesel		
Dimensions	Lift size		mm	3000		
	Free lift height		mm	155		
	Fork size		mm	1070x122x40		
	Mast tilt angle		deg	6/12		
	Fork overhang		mm	483		
	Overall dimensions	Full length		mm	2510	2580
		Full width		mm	1160	
		Height with mast not lifted		mm	1990	
		Height with mast lifted		mm	4030	
		Overhead guard height		mm	2071	
Minimum turning radius		mm	2172	2320		
Minimum right angle passage width		mm	2200	2300		
Performance	Drive speed (full load/no load)		Hydraulic forklift truck	km/h	19/20	
			Mechanical forklift	Gear I	8.5/9	
				Gear II	19/20	
	Full-load lifting speed		mm/sec	420		
	Maximum gradeability		%	20		
	Curb weight		kg	3649/3628	4000/3978	
	Tires		Front wheel		7.00-12-12PR	
Rear wheel			6.00-9-10PR			
Wheel & tires	Tread		Front wheel	mm	970	
			Rear wheel	mm	970	
	Wheelbase		mm	1600		
	Ground clearance (full load/no load)	Mast		mm	85/105	
		Frame		mm	100/105	
Drive units & control	Engine	Applicable vehicle type		SF20AT/SF25AT		
		Model		490BPG	ISUZU C2409KJ	
		Rated power	kw/rpm	37/2650	34.5/2500	
		Rated torque	N.m/rpm	148/1900	139/1800	
		Number of cylinders		4	4	
		Cylinder bore/stroke	mm	90/100	86/102	
		Displacement	L	2.54	2.369	
	Operating pressure		Mpa		17.5	

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SF30/SF30T/SF35/SF35T ▲

Product features:

- Built-in tilt cylinder seat is used, adjustable at high gear position, which is able to help relieve fatigue for the operator, while the wide view mast provides a spacious visual field.
- Suspended overhead guard and steering axle shock absorption technique are applied, to increase driver operating comfort.
- High-quality transmission matched with the hydraulic system, for complete vehicle efficiency making it highly efficient and energy saving.
- Intelligent electronic monitoring combination instrument is used, and a waterproof plug-in unit is applied to the electrical system, to increase safety and reliability.

**Technical specifications:**

FRONT SINGLE TIRE									
MODEL				Unit	SF30/30T		SF35/35T		
General	Load capacity			kg	3000		3500		
	Load center			mm	500		500		
	Power type				Diesel		Diesel		
Dimensions	Lift size			mm	3000		3000		
	Free lift height			mm	160		160		
	Fork size			mm	1070x122x45		1070x122x50		
	Mast tilt angle			deg	6/12		6/12		
	Fork overhang			mm	495		495		
	Overall dimensions	Full length			mm	2704		2704	
		Full width			mm	1226		1226	
		Height with mast not lifted			mm	2140		2140	
		Height with mast lifted			mm	4272		4272	
		Overhead guard height			mm	2140		2140	
	Minimum turning radius			mm	2400		2400		
Minimum right angle passage width			mm	2100		2100			
Performance	Drive speed (full load/no load)		Hydraulic forklift truck		km/h	19/20		19/20	
			Mechanical forklift	Gear I		8.8/8.8		8.8/8.8	
				Gear II		20/20		20/20	
	Full-load lifting speed				mm/sec	450		360	
	Maximum gradeability				%	20		20	
	Curb weight				kg	4500/4474		4787/4760	
	Tires		Front wheel			28"9-15-14PR		28"9-15-14PR	
Rear wheel			6.50-10-10PR		6.50-10-10PR				
Wheel & tires	Tread		Front wheel		mm	1000		1000	
			Rear wheel		mm	980		980	
	Wheelbase			mm	1700		1700		
	Ground clearance (full load/no load)	Mast		mm	110/135		110/135		
		Frame		mm	130/135		130/135		
Drive units & control	Engine	Applicable vehicle type				SF30AT		SF35AT	
		Model				490BPG	CA498	ISUZU C240PKJ	495BPG
		Rated power			kw/rpm	37/2650	42/2450	34.5/2500	42/2650
		Rated torque			N.m/rpm	148/1900	190/1800	139/1800	174/1800
		Number of cylinders				4	4	4	4
		Cylinder bore/stroke			mm	90/100	98/105	86/102	95/105
		Displacement			L	2.54	2.98	2.369	2.97
	Operating pressure				Mpa	17.5		17.5	

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SF50/SF60/SF70 ▲

Product features:

- Large circular-arc streamline modeling is applied to the complete forklift, and the edge of the counterweight is visible from the driver's seat, to ensure optimal visibility when distance is determined during reverse operation.
- With the control system designed according to ergonomic engineering principles, the angle of the steering gear is adjustable, offering the driver a spacious visual field, for optimal operating comfort.
- Full-hydraulic load-free induction steering gear, for less tedious turning operations.
- Wide view mast provides driver with a spacious visual field.
- Combined taillight is mounted in the rear part of the overhead guard, which provides security for safer user operation.

**Technical specifications:**

FRONT DOUBLE TIRE							
MODEL			Unit	SF50	SF60	SF70	
General	Load capacity		kg	5000	6000	7000	
	Load center		mm	600			
	Power type			Diesel			
Dimensions	Lift size		mm	3000			
	Free lift height		mm	195			
	Fork size		mm	1250x150x50			
	Mast tilt angle		deg	6/12			
	Fork overhang		mm	627			
	Overall dimensions	Full length		mm	3480	3540	3646
		Full width		mm	1995		
		Height with mast not lifted		mm	2500		
		Height with mast lifted		mm	4420		
		Overhead guard height		mm	2450		
	Minimum turning radius		mm	3250	3450		
Minimum right angle passage width		mm	2960	3090			
Performance	Drive speed (full load/no load)	Hydraulic forklift truck		km/h	26/28		
		Mechanical forklift	Gear I				
			Gear II				
	Full-load lifting speed			mm/sec	500	450	
	Maximum gradeability			%	20		
	Curb weight			kg	8183	8960	9400
	Tires	Front wheel			8.5-15-14PR		
Rear wheel			8.5-15-14PR				
Wheel & tires	Tread	Front wheel		mm	1470		
		Rear wheel		mm	1700		
	Wheelbase			mm	2250		
	Ground clearance (full load/no load)	Mast		mm	200		
		Frame		mm	200		
Drive units & control	Engine	Applicable vehicle type			SF50/SF60/SF70		
		Model			6102BG		
		Rated power		kw/rpm	81/2500		
		Rated torque		N.m/rpm	353/1700		
		Number of cylinders			6		
		Cylinder bore/stroke		mm	102/118		
		Displacement		L	5.795		
	Transmissions	Type			Hydraulic		
		Gear position front/rear			2-2		
Operating pressure			Mpa	20			

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SF100 ▲

Product features:

- Large circular-arc streamline modeling is applied to the complete forklift, and the edge of the counterweight is visible from the driver's seat, to ensure optimal visibility when distance is determined during reverse operation.
- With the control system designed according to ergonomic engineering principles, the angle of the steering gear is adjustable, offering the driver a spacious visual field, for optimal operating comfort.
- Full-hydraulic load-free induction steering gear, for less tedious steering operations.
- Wide view mast provides driver with a spacious visual field.
- Combined taillight is mounted in the rear part of the overhead guard, which provides security for safer user operation.



Technical specifications:

FRONT DOUBLE TIRE						
MODEL				Unit	SF100	
General	Load capacity			kg	10000	
	Load center			mm	600	
	Power type				Diesel	
Dimensions	Lift size			mm	3000	
	Free lift height			mm	195	
	Fork size			mm	1768X173X85	
	Mast tilt angle			deg	6/12	
	Fork overhang			mm	726	
	Overall dimensions	Full length			mm	4200
		Full width			mm	2230
		Height with mast not lifted			mm	2800
		Height with mast lifted			mm	4426
		Overhead guard height			mm	2497
Minimum turning radius			mm	3900		
Minimum right angle passage width			mm	3540		
Performance	Drive speed (full load/no load)		Hydraulic forklift truck		km/h	26/28
			Mechanical forklift	Gear I		
				Gear II		
	Full-load lifting speed				mm/sec	360
	Maximum gradeability				%	20
	Curb weight				kg	12300
	Tires		Front wheel		9.00-20-14PR	
Rear wheel			9.00-20-14PR			
Wheel & tires	Tread		Front wheel		mm	1600
			Rear wheel		mm	1722.5
	Wheelbase			mm	2800	
	Ground clearance (full load/no load)		Mast		mm	245/205
			Frame		mm	240
Drive units & control	Engine		Applicable vehicle type			SF100
			Model			6102BG
			Rated power		kw/rpm	81/2500
			Rated torque		N.m/rpm	353/1700
			Number of cylinders		6	
			Cylinder bore/stroke		mm	102/118
			Displacement		L	5.795
	Transmissions		Type			Hydraulic
			Gear position front/rear			2-2
	Operating pressure				Mpa	20

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