

XVI

Stärke XVI Series new internal combustion counterbalanced forklifts bring bold improvement to the market with significant reductions in total operating costs, while improving truck performance, efficiency and productivity. Stärke XVI series feature new and innovative design and engineering and show Stärke's commitment to fulfilling customer needs, conserving our environment, and reducing costs of ownership.



Stärke Material Handling Group is committed to providing a broad selection the toughest trucks for the most challenging applications. Every model is designed to deliver optimal efficiency, comprehensive operator ergonomics and safety, and unsurpassed reliability at an unbeatable value for your dollar.

Our family of products provides a solution for every material handling situation. From manual and electric pallet trucks, stackers, reach trucks, order pickers, dock stockers, three and four wheel electric forklifts, and up to 22,000 lb internal combustion engine forklifts - every piece of equipment we sell is backed by first class warranties, a fully stocked parts department, and a dealer network with factory supported technicians.

Stärke is German for 'strength' and it perfectly describes how we deliver in design, customer service and value. It describes our commitment to worker safety and to our products themselves, each built for years of trouble free service.



ISO 14001:2004

Our factory has adopted an effective environmental management system (EMS) that helps to support environmental protection and prevention of pollution. In doing so, we can effectively measure and reduce our environmental footprint.

ISO 9001:2008

We take pride in the fact our factory has a certified quality management system in design, development, manufacturing & service.

ANSI B56.1

Our customers can have confidence in the knowledge that all of our Stärke trucks meet and/or exceed all safety standards required by the current ANSI B56.1.

CAN/CSA B335

Stärke Material Handling Group diligently follows the requirements with respect to lift truck design and construction, maintenance and inspection, safe operation, and operator training when it comes to our products. All of our Stärke products meet and/or exceed all safety standards required by the current CAN/CSA B335.



PROFESSIONAL XVI SERIES

CUSHION & PNEUMATIC TIRE
INTERNAL COMBUSTION ENGINE FORKLIFTS

4,000-8,000 LB



XVI SERIES



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The Professional XVI Series of Heavy Duty LPG Forklifts
from Stärke Material Handling Group

STÄRKE IS STRENGTH

PROFESSIONAL XVI SERIES

High Performance and Comfort

Starke forklifts are manufactured in an ISO accredited facility to ANSI B56.1 specifications, and use the latest CARB approved engines designed for fuel efficiency, low emissions, reduced noise and vibration.

FEATURES

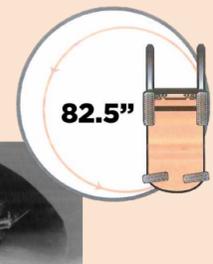
ENGINE

The XVI Series offers an IMPCO Carb IV Nissan / low CO level engine. Designed with low fuel consumption in mind, while offering the high performance you would expect from a Starke forklift. New XVI Tier 4 Diesel engines to be introduced in 2017.



STEERING

Superior turning radius allows the truck to work in narrower aisles. The new axle provides wider steering angles up to 82.5 degrees.



IMPROVED ERGONOMICS

Smaller steering wheel is easy to operate and reduces strain on operators arms and shoulders.

Adjustable steering wheel column offering tilt adjustment helps to provide the ideal operating position for improved performance.

Multifunctional LCD instrument panel is ergonomically designed at a 40 degree angle to the right of the operator for convenience of location and is easy to read.

Hydraulic controls are designed to provide the perfect positions for the operator's hand to avoid undue stress.

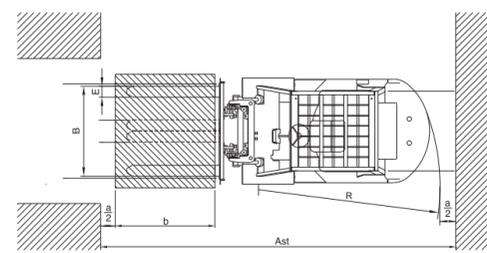
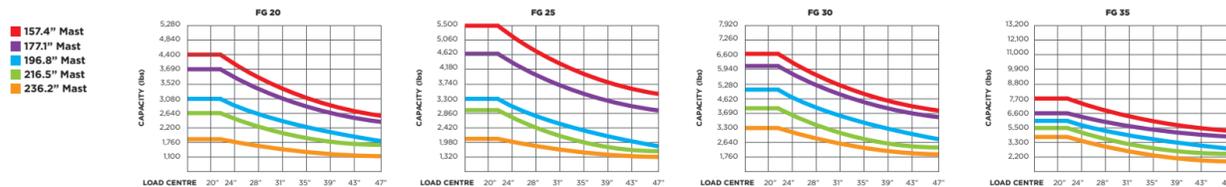
Custom factory options including air pre-cleaners, cabins, attachments, fork sizes, seats, masts, LPG brackets, LED options & more.

Starke Model			FD20P	FD25P	FD30P	FD35P	XVI FG20P	XVI FG25P	XVI FG25C	XVI FG30P	XVI FG35P			
Load Capacity	Q	Load	4000	5000	6000	7700 (8000)	4000	5000	5000	6000	7700 (8000)			
Load Center	C	Distance		24			24	24	24	24	24			
Power Type				Diesel			LPG	LPG	LPG					
Tire Type		Pneumatic/Solid Resilient, C=Cushion		Pneumatic/Solid Resilient			Pneumatic/Solid Resilient	Cushion	Pneumatic/Solid Resilient					
Operation type				Sit			Sit	Sit	Sit					
Mast	h3	Lift		78.7 - 270.0*			78.7 - 270.0*	78.7 - 270.0*	78.7 - 270.0*					
Load Bracket	h8	Height of load bracket		48			48	48	48					
Fork		Thickness (s) x Width (e)	1.6 x 4.9	1.6 x 4.9	1.8 x 4.9	2.0 x 4.9	1.6 x 4.9	1.6 x 4.9	1.6 x 4.9	1.8 x 4.9	2.0 x 4.9			
Mast tilting angle	B/a	Forward / Back	deg	6 / 12			6 / 12	6 / 12	6 / 12	6 / 12	6 / 12			
Overall Dimensions	L2	Length to face of forks	in	102.4	102.4	108.7	113.6	102.4	102.4	91.3	108.7	113.6		
	B	Total width - Single / Dual Wheel	in	45.6 / 60.3	45.6 / 60.3	50.8 / 65.2	50.8 / 65.3	45.6 / 60.3	45.6 / 60.3	42.5	50.8 / 65.2	50.8 / 65.3		
	H6	Overhead Guard Height	in	83.9	83.9	85.4	85.4	83.9	83.9	84.3	85.4	85.4		
	H7	Seat Height	in	44.5	44.5	47.2	47.2	44.5	44.5	43.5	47.2	47.2		
Turning Radius	R		in	87.8	87.8	94.5	102.4	87.8	87.8	82.5	94.5	102.4		
Load Distance	X	From center of front axle	in	19.7	19.7	20.3	20.3	19.7	19.7	16.3	20.3	20.3		
Aisle Width	Ast	For load 31.4 x 47.3 / 39.4 x 47.3	in	146.9 / 154.7	146.9 / 154.7	154.1 / 162.0	162.0 / 169.9	146.9 / 154.7	146.9 / 154.7	140.4 / 148.2	154.1 / 162.0	162.0 / 169.9		
Engine	Manufacturer		YANMAR		YANMAR		YANMAR		NISSAN		NISSAN			
	Type		Tier III EPA		Tier III EPA		Tier III EPA		CARB IV		CARB IV			
	Model		4TNE92	4TNE98	4TNE92	4TNE98	4TNE98		K25	K25		K25		
	Horsepower	hp / rpm	45.8 / 2450	59.1 / 2725	45.8 / 2450	59.1 / 2725	59.1 / 2725		59.0 / 2700	59.0 / 2700	59.0 / 2700	59.0 / 2700		
Max Torque	lb ft / rpm	93 / 1800	149 / 1800	93 / 1800	149 / 1800	149 / 1800		142 / 1600	142 / 1600	142 / 1600	142 / 1600			
Cylinders no. / Displacement	No./L	4 / 3.0	4 / 3.3	4 / 3.0	4 / 3.3	4 / 3.3		4 / 2.5	4 / 2.5	4 / 2.5	4 / 2.5			
Speeds	Travel Speed - Laden/unladen	mph	10.6 / 11.2	10.6 / 11.2	10.6 / 11.2	10.6 / 11.2	10.6 / 11.2	9.9 / 11.2	10.6 / 11.2	10.6 / 11.2	9.6 / 9.9	10.6 / 11.2	9.9 / 11.2	
	Lifting Speed - Laden/unladen	in/s	23.6 / 26.9	23.6 / 26.9	23.6 / 26.9	23.6 / 26.9	17.4 / 18.3	16.1 / 21.3	21.0 / 22.8	21.0 / 22.8	23.6 / 26.9	15.4 / 15.9	15.4 / 15.9	
	Lowering Speed - Laden/unladen	in/s	19.1 / 17.3	19.1 / 17.3	19.1 / 17.3	19.1 / 17.3	17.7 / 16.5	17.7 / 16.5	19.1 / 17.3	19.1 / 17.3	17.7 / 16.5	17.7 / 16.5	17.7 / 16.5	
Drawpull Bar	Laden/Unladen	lbf	3762 / 2882	3762 / 2882	3894 / 2904	3894 / 2904	4026 / 2926	3938 / 2948	5002 / 2574	5002 / 2574	4110 / 1712	4825 / 2773	4290 / 3080	
Gradeability	Laden/Unladen	%	25 / 20	25 / 20	25 / 20	25 / 20	23 / 18	21 / 18	24 / 20	24 / 19.5	32 / 20	23 / 18	21 / 18	
	Unladen - Front/Rear	lbs	10384 / 1892	10384 / 1892	12034 / 1826	12034 / 1826	14344 / 2156	15752 / 2288	10384 / 1892	10384 / 1892	11957 / 1771	14212 / 2112	15642 / 2222	
Axle Loading	Laden - Front/Rear	lbs	3256 / 4620	3256 / 4620	3102 / 5258	3102 / 5258	3828 / 6072	3960 / 3680	3256 / 4620	3256 / 4620	2618 / 5610	3674 / 6050	3850 / 6314	
	number - Front/Rear		2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	
Tire Size	Front	in	7.00-12-12P.R.	7.00-12-12P.R.	7.00-12-12P.R.	7.00-12-12P.R.	8.15-15-12P.R.	8.15-15-14P.R.	7.00-12-12P.R.	7.00-12-12P.R.	21 x 7 x 15	8.15-15-12P.R.	8.15-15-14P.R.	
	Rear	in	6.00-9-10P.R.	6.00-9-10P.R.	6.00-9-10P.R.	6.00-9-10P.R.	6.50-10-10P.R.	6.50-10-10P.R.	6.00-9-10P.R.	6.00-9-10P.R.	16.25 x 5 x 11.25	6.50-10-10P.R.	6.50-10-10P.R.	
Tread	Center of tires front (std/dual)	in	38.2 (52.9)	38.2 (52.9)	38.2 (52.9)	38.2 (52.9)	41.5 (57.4)	41.5 (57.4)	38.2 (52.9)	38.2 (52.9)	34.8	41.5 (57.4)	41.5 (57.4)	
	Center of tires rear	in	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	35.4	38.8	38.8	
Wheelbase	Y	in	61.0	61.0	61.0	61.0	65.0	72.8	61.0	61.0	55.1	65.0	72.8	
Ground Clearance	m1	at lowest point	in	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.3	4.7	4.7	
	m2	center of wheelbase	in	7.7	7.7	7.7	7.7	8.7	8.7	7.7	7.7	6.1	8.7	8.7
Service Brake		Operation/Control			Hydraulic					Hydraulic				
Parking Brake		Operation/Control			Hand					Hand				
Battery		Voltage	V			12					12			
		Capacity	Ah/5hr			64					52			
		Dimension - LxWxH	in			12.0 x 6.8 x 8.9					10.2 x 6.8 x 8.9			
Transmission		Type			Powershift					Powershift				

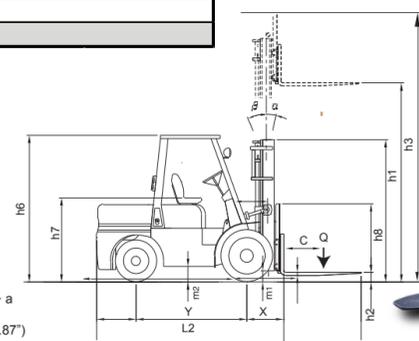
For the latest revisions visit our website at www.starkeforklift.com

* Various mast heights ranging from 78.7-270.0" available. See Mast Specification sheet for full details.

** All factory specifications are subject to change without notice.



Ast = X + R + b + a
 b = Load Length
 a = Clearance (7.87")



NEW Wide Mast View

(Hoseless view even with 3rd and/or 4th functions installed)



360° CLEAR VIEW



Because it makes sense to expect peace of mind at a fair price