

# ECOMAXX SERIES

INTERNAL COMBUSTION ENGINE FORKLIFTS  
2000-7000 LB



The EcoMaxx Series of LPG, Gas & Diesel Forklifts from Stärke Material Handling Group



ECONOMICAL & ECOFRIENDLY

High Performance, Fuel Efficient, Low Emission Engines at a Great Value



**EASE OF MAINTENANCE**  
Designed for durability and equipped with a straightforward oil and filter change system, EcoMaxx forklifts are built for simplified maintenance – making routine inspections and repairs more efficient.



**RESPONSIVE STEERING**  
Equipped with a rugged steer axle for durability, and hydrostatic steering for simple and precise maneuverability, each EcoMaxx truck is designed to easily stand up to even the toughest jobs.



**OPERATOR PRESENCE SYSTEM**  
Integrated into the ergonomic seat, the Operator Presence System locks out lift and travel functions and disengages the transmission to a neutral state should the operator leave the seat while the forklift is in use.



**WIDE VIEW MAST**  
Intelligent design and effective chain and hose placement allows for wider forward visibility from the operator seat. With a clearer view of the forks operators are more efficient, accurate, and safe in load handling.



INTEGRATED SAFETY FEATURES



EASILY ACCESSIBLE CONTROLS



RUGGED POWER TRAIN



SOLID OVERHEAD GUARD

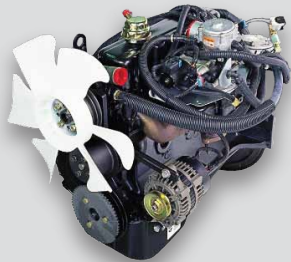
Stärke forklifts are manufactured in an ISO9002 and CE accredited facility to ANSI B56.1 specifications, and use industry standard engines designed for low emissions and reduced noise.

All diesel and LPG models are available with US Environmental Protection Agency approved GM and Yanmar engines for advanced combustion technology and reduced fuel consumption.



**YANMAR 4TNE92 DIESEL ENGINE**  
Classification **EPA Approved**  
Displacement 2659cc  
Rated Hp 46.5hp/2450rpm  
Max Torque 106.3ft-lb/1600rpm  
Bore x Stroke 3.6 x 3.9in

**YANMAR 4TNE98 DIESEL ENGINE**  
Classification **EPA Approved**  
Displacement 3318cc  
Rated Hp 59.1hp/2450rpm  
Max Torque 131.6ft-lb/1500rpm  
Bore x Stroke 3.8 x 4.3mm



**GM 3.0L LPG ENGINE**  
Classification **EPA Approved**  
Displacement 3000cc  
Rated Hp 73.9hp/3000rpm  
Max Torque 146.8ft-lb/1600rpm  
Bore x Stroke 4.0 x 3.6in

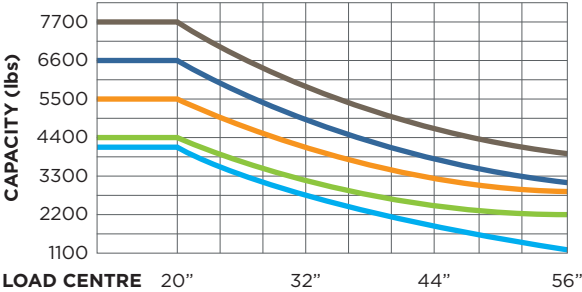


**NISSAN K21 GASOLINE ENGINE**  
Classification Non-EPA  
Displacement 2065cc  
Rated Hp 41.8hp/2250rpm  
Max Torque 106.3ft-lb/1600rpm  
Bore x Stroke 3.5 x 3.2in

**NISSAN K25 GASOLINE ENGINE**  
Classification Non-EPA  
Displacement 2488cc  
Rated Hp 50.1hp/2300rpm  
Max Torque 128.7ft-lb/1600rpm  
Bore x Stroke 3.5 x 3.9in

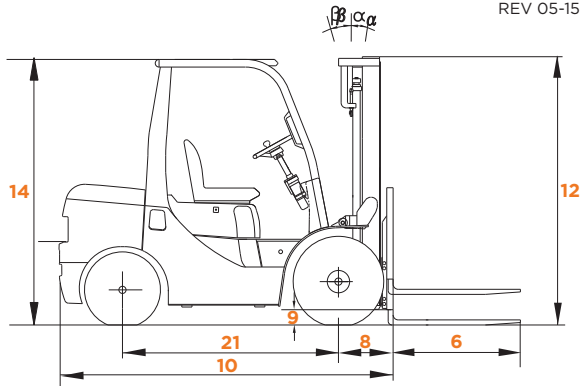
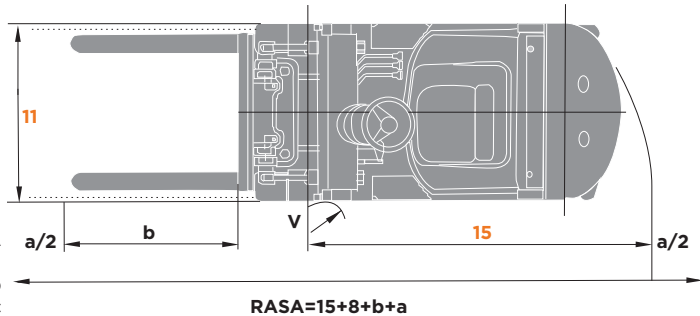
GENERAL			LPG/GAS MODELS								DIESEL MODELS			
			ECO-FG10PA	ECO-FG18PA	ECO-FG20PA	ECO-FG25PA	ECO-FG30PA	ECO-FG35PA	ECO-FD20PA	ECO-FD25PA	ECO-FD30PA	ECO-FD35PA		
Model Number	1		Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Diesel	Diesel	Diesel	Diesel		
	2		Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Diesel	Diesel	Diesel	Diesel		
	3 lb (Kg)		2000 (909)	3500 (1590)	4000 (1820)	5000 (2273)	6000 (2727)	7000 (3182)	4000 (1820)	5000 (2273)	6000 (2727)	7000 (3182)		
	4 in (mm)		24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)		
DIMENSIONS & PERFORMANCE	Mast Tilt Angle F/R 7 Deg		6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12		
	Overhang Wheel Centre to Fork Face 8 in (mm)		16.5 (420)	16.7 (425)	18.5 (470)	18.5 (470)	18.7 (475)	19.3 (490)	18.5 (470)	18.5 (470)	18.7 (475)	19.3 (490)		
	Clearance Bottom of Mast 9 in (mm)		3.9 (100)	3.9 (100)	4.7 (120)	4.7 (120)	4.7 (120)	4.7 (120)	4.7 (120)	4.7 (120)	4.7 (120)	4.7 (120)		
	Length Rear to Face of Carriage 10 in (mm)		86.8 (2205)	90.0 (2285)	96.9 (2460)	99.6 (2530)	105.1 (2670)	106.3 (2700)	96.9 (2460)	99.6 (2530)	105.1 (2670)	106.3 (2700)		
	Overall Width 11 in (mm)		42.1 (1070)	42.1 (1070)	45.3 (1150)	45.3 (1150)	48.2 (1225)	48.2 (1225)	45.3 (1150)	45.3 (1150)	48.2 (1225)	48.2 (1225)		
	Overhead Guard Height 14 in (mm)		83.0 (2108)	83.0 (2108)	84.0 (2134)	84.0 (2134)	85.0 (2159)	85.0 (2159)	84.0 (2134)	84.0 (2134)	85.0 (2159)	85.0 (2159)		
	Outside Turning Radius 15 in (mm)		78.0 (1980)	81.1 (2060)	85.4 (2170)	88.2 (2240)	94.5 (2400)	96.3 (2445)	85.4 (2170)	88.2 (2240)	94.5 (2400)	96.3 (2445)		
	Minimum Intersecting Aisle 16 in (mm)		70.3 (1785)	73.4 (1865)	75.6 (1920)	79.1 (2010)	83.1 (2110)	87.9 (2235)	75.6 (1920)	79.1 (2010)	83.1 (2110)	87.9 (2235)		
	Travel Speed Laden 17 m(km)/hr		9.0 (14.5)	9.0 (14.5)	11.8 (19)	11.8 (19)	11.8 (19)	11.8 (19)	11.8 (19)	11.8 (19)	11.8 (19)	11.8 (19)		
	Lifting Speed Laden 18 in(mm)/s		18.1 (460)	18.1 (460)	19.3 (490)	19.3 (490)	17.3 (440)	16.1 (410)	19.3 (490)	19.3 (490)	17.3 (440)	16.1 (410)		
CHASSIS	Maximum Gradeability 19 %		20	20	20	20	20	20	20	20	20	20		
	Front Tire Pneumatic 20		6.50-10-10 PR	6.50-10-10 PR	7.00-12-12 PR	7.00-12-12 PR	28x9-15-12 PR	28x9-15*	7.00-12-12 PR	7.00-12-12 PR	28x9-15-12 PR	28x9-15*		
	Rear Tire Pneumatic 21		5.00-8-10 PR	5.00-8-10 PR	6.00-9-10 PR	6.00-9-10 PR	6.50-10-10 PR	6.50-10-10 PR	6.00-9-10 PR	6.00-9-10 PR	6.50-10-10 PR	6.50-10-10 PR		
	Wheelbase 22 in (mm)		55.1 (1400)	55.1 (1400)	63.0 (1600)	63.0 (1600)	66.9 (1700)	66.9 (1700)	63.0 (1600)	63.0 (1600)	66.9 (1700)	66.9 (1700)		
POWER TRAIN	Service Weight 23 lb (Kg)		5016 (2280)	6358 (2890)	7370 (3350)	8250 (3750)	9858 (4390)	10285 (4675)	7370 (3350)	8250 (3750)	9858 (4390)	10285 (4675)		
	Engine Model 25		K21		K25 or 3.0		K25 or 3.0		4TNE92		4TNE98			
	Engine Manufacturer 26		Nissan		Nissan or GM		Nissan or GM		Yanmar		Yanmar			
	Attachment Operating Pressure 27 Mpa		14.5		17.5		17.5		17.5		17.5			
	Battery Voltage and Capacity 28 V/Ah		12/90		12/90		12/90		12/90		12/90			
	Transmission Type 29		Powershift/Automatic		Powershift/Automatic		Powershift/Automatic		Powershift/Automatic		Powershift/Automatic			
	Transmission Stage 30 fwd/rvs		1/1 (2/2)		1/1 (2/2)		1/1 (2/2)		1/1 (2/2)		1/1 (2/2)			

\* Indicates Solid Tires



ECO-FG18PA  
ECO-FD/FG20PA  
ECO-FD/FG25PA  
ECO-FD/FG30PA  
ECO-FD/FG35PA

Right Angle Stack Aisle RASA  
Safety Clearance a  
Length of Loading b  
Turning Radius (inside) c



REV 05-15

Stärke Material Handling Group is committed to providing a broad selection of the toughest trucks for even the most challenging applications. Each 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 and stackers, 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 a first class warranty, fully stocked parts department, and a dealer network with factory trained technicians.

Stärke is German for 'strong' 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.



CE ISO9001 ASME  
CERTIFIED B56.1-2009



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