

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

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.



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



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

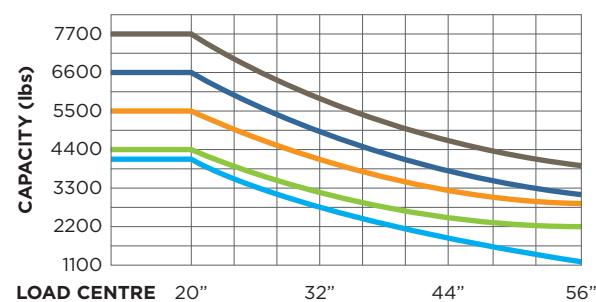
Classification Non-EPA
 Displacement 2065cc
 Rated Hp 41.8hp/2250rpm
 Max Torque 106.3ft-lb/1600rpm
 Bore x Stroke 3.5 x 3.2in

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

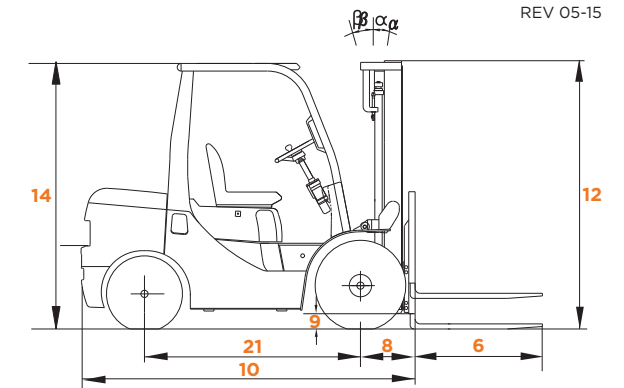
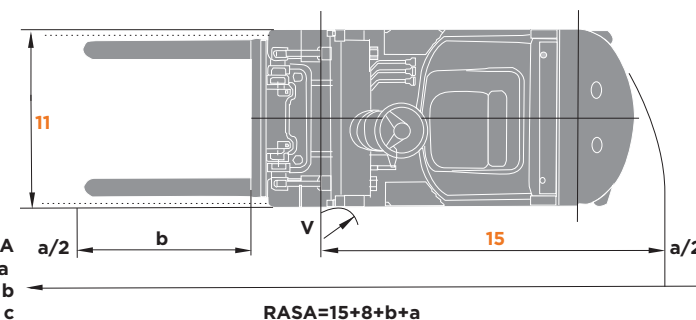
GENERAL	LPG/GAS MODELS												DIESEL MODELS				
	Model Number	1	ECO-FG10PA	ECO-FG18PA	ECO-FG20PA	ECO-FG25PA	ECO-FG30PA	ECO-FG35PA	ECO-FD20PA	ECO-FD25PA	ECO-FD30PA	ECO-FD35PA	ECO-FD20PA	ECO-FD25PA	ECO-FD30PA	ECO-FD35PA	
Power Type	2	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	
Rated Capacity	3	lb (Kg)	2000 (909)	3500 (1590)	4000 (1820)	5000 (2273)	6000 (2727)	7000 (3182)	4000 (1820)	5000 (2273)	6000 (2727)	7000 (3182)	4000 (1820)	5000 (2273)	6000 (2727)	7000 (3182)	
Load Centre	4	in (mm)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	
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	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)	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)	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)	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)	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)	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)	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)	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)	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)	19.3 (490)	19.3 (490)	17.3 (440)	16.1 (410)
Maximum Gradeability		19	%	20	20	20	20	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*	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	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)	63.0 (1600)	63.0 (1600)	66.9 (1700)	66.9 (1700)
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)	7370 (3350)	8250 (3750)	9858 (4390)	10285 (4675)
Engine Model		25		K21		K25 or 3.0		K25 or 3.0		4TNE92		4TNE98		4TNE92		4TNE98	
Engine Manufacturer		26		Nissan		Nissan or GM		Nissan or GM		Yanmar		Yanmar		Yanmar		Yanmar	
Attachment Operating Pressure		27	Mpa	14.5		17.5		17.5		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		12/90		12/90	
Transmission Type		29		Powershift/Automatic		Powershift/Automatic		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)		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 '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.



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CERTIFIED B56.1-2009



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