

# ECOMAXX SERIES

INTERNAL COMBUSTION ENGINE FORKLIFTS

2000-7000 LB | 1.0-3.5 TON



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

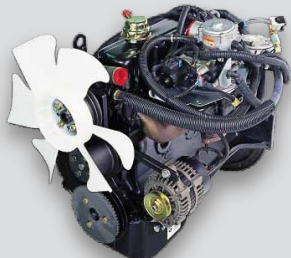
Stärke forklifts are manufactured in an ISO9002 and CE accredited facility to ANSI B56.1 specifications, and use industry standard engines designed for low emissions and reduced noise.

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 4TE92 DIESEL ENGINE**  
Classification **EPA Approved**  
Displacement 2659cc  
Rated Hp 47.2ps/2450rpm  
Max Torque 14.7kg-m/1600rpm  
Bore x Stroke 92 x 100mm

**YANMAR 4TE98 DIESEL ENGINE**  
Classification **EPA Approved**  
Displacement 3318cc  
Rated Hp 60ps/2450rpm  
Max Torque 18.2kg-m/1500rpm  
Bore x Stroke 98 x 110mm



**GM 3.0L LPG ENGINE**  
Classification **EPA Approved**  
Displacement 3000cc  
Rated Hp 75ps/3000rpm  
Max Torque 20.3kg-m/1600rpm  
Bore x Stroke 102 x 92mm

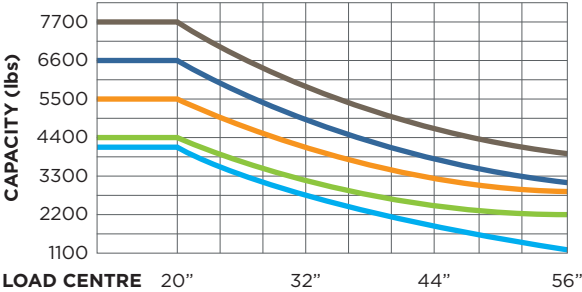


**NISSAN K21 GASOLINE ENGINE**  
Classification Non-EPA  
Displacement 2065cc  
Rated Hp 42.4ps/2250rpm  
Max Torque 14.7kg-m/1600rpm  
Bore x Stroke 89 x 83mm

**NISSAN K25 GASOLINE ENGINE**  
Classification Non-EPA  
Displacement 2488cc  
Rated Hp 50.9ps/2300rpm  
Max Torque 17.8kg-m/1600rpm  
Bore x Stroke 89 x 100mm

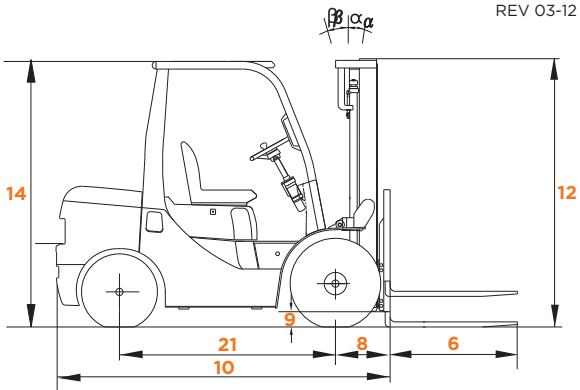
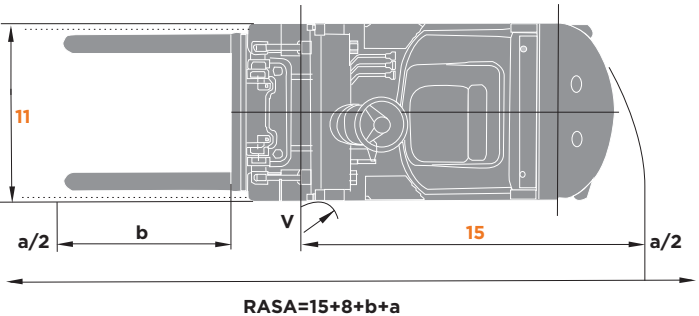
GENERAL			LPG/GAS MODELS								DIESEL MODELS			
			ECO-FG10PA	ECO-FG18PA	ECO-FG20PA	ECO-FG25PA	ECO-FG30PA	ECO-FG35PA	ECO-FD20PA	ECO-FD25PA	ECO-FD30PA	ECO-FD35PA		
GENERAL	Model Number	1	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Diesel	Diesel	Diesel	Diesel		
	Power Type	2	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	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)		
	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)		
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			
	Transmission Type	29			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)			

\* Indicates Solid Tires



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

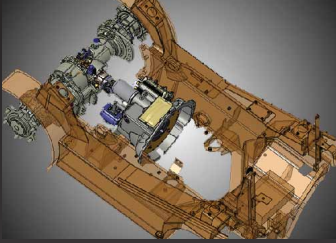
Right Angle Stack Aisle RASA  
Safety Clearance a  
Length of Loading b  
Turning Radius (inside) c



REV 03-12



## OPTIONAL FEATURES



### DECREASED VIBRATION

Enhanced frame design with rubber cushion mounts minimizes the transfer of vibration between the engine and the operator seat, isolating vibration from the power train and assuring operator comfort and safety.

- Standard with the PSD Axle Package.



### AUTO BRAKE SYSTEM

An innovative Transaxle design assists operators by slowing the vehicle at an even pace when the brakes are applied suddenly. This allows the operator time to safely plan their reaction and control the load, helping to prevent spills and tip overs.

- Standard with the PSD Axle Package.



### ANTI-ROLLBACK SYSTEM

The Anti-Rollback System ensures that the forklift does not roll or drift backwards on an incline should the operator remove their foot from the accelerator or need to perform an inching task.

- Standard with the PSD Axle Package.



### WET DISC BRAKES

Wet Disc Brakes offer a low maintenance solution that does not need adjusting and is power assisted for ease of use. This rugged brake system stands up to even the toughest applications, improving performance, and lasting up to five times longer than traditional brake systems.

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.



Printed on Recycled Paper

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