



ECOMAXX SERIES

INTERNAL COMBUSTION ENGINE FORKLIFTS
8,000-22,000 LB

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. 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, superior 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 challenge. 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.

At Stärke Material Handling Group, we are dedicated to improving efficiencies and reducing energy consumption. Stärke offers EPA approved LPG and Diesel engines manufactured by proven companies including General Motors, Nissan, Perkins, Cummins and Yanmar. Low emissions and efficiency are the standard for Stärke forklifts and our commitment to environmental sustainability is ongoing. ♻️



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



CE ISO9001 ASME
CERTIFIED B56.1-2009



Printed on Recycled Paper

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ECONOMICAL & ECOFRIENDLY

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



Starke = Strength
A proven name you can trust for Strength and durability.



FULL SUSPENSION SEAT
The full suspension seat delivers exceptional operator comfort and flexibility.



WIDE VIEW MAST
Intelligent design and effective chain and hose placement allows for wider forward visibility from the operator seat.



EASILY ACCESSIBLE CONTROLS
Intelligent design and effective chain and hose placement allows for wider forward visibility from the operator seat.



SOLID OVERHEAD GUARD
As an integrated part of the chassis the overhead guard provides optimal durability and protection for your operators.



INTEGRATED SAFETY FEATURES
Easily accessible step with non-slip surface and operator entry handles allow for safe entry and exit from the truck.



RUGGED POWER TRAIN
The rugged power train in each EcoMaxx truck is designed to stand up to even the toughest jobs.

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.



AVAILABLE ENGINES



GM 4.3L ENGINE
FG 50-60-70 LPG
Classification EPA Approved
Displacement 4294cc
Rated Hp 122hp/3000rpm
Max Torque 310ft-lb/3000rpm
Bore x Stroke 4.00" x 3.48"
of Cylinders: 6



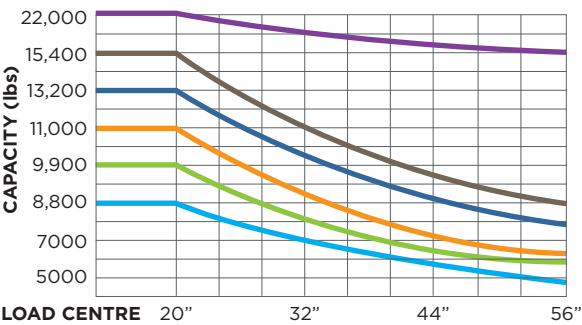
CUMMINS QSB 3.3 C99 ENGINE
FD 50-60 Diesel
Classification EPA Approved
Rated Hp 99hp/2200rpm
Max Torque 306ft-lb/1500rpm



PERKINS 1104D ENGINE
FD 40-45 Diesel
Classification EPA Approved
Displacement 4400cc
Rated Hp 75hp/2200rpm
Max Torque 192ft-lb/1900rpm
Bore x Stroke 4.10" x 5.00"
of Cylinders: 4

			LPG MODELS			DIESEL MODELS						
GENERAL	Model Number	1	ECO-FG50PA	ECO-FG60PA	ECO-FG70PA	ECO-FD40PA	ECO-FD45PA	ECO-FD50PA	ECO-FD60PA	ECO-FD70PA	ECO-FD80PA	ECO-FD100PA
	Power Type	2	Gasoline/LPG	Gasoline/LPG	Gasoline/LPG	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
	Rated Capacity	3 lb (Kg)	11000 (5000)	13200 (6000)	15400 (7000)	8000 (3636)	9000 (4090)	11000 (5000)	13200 (6000)	15400 (7000)	17600 (8000)	22000 (10000)
	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)	23.2 (590)	23.2 (590)	23.4 (595)	22.4 (570)	22.4 (570)	23.2 (590)	23.2 (590)	23.4 (595)	29.5 (750)	29.5 (750)
	Clearance Bottom of Mast	9 in (mm)	7.9 (200)	7.9 (200)	7.9 (200)	6.3 (160)	6.3 (160)	7.9 (200)	7.9 (200)	7.9 (200)	9.8 (250)	9.4 (240)
	Length Rear to Face of Carriage	10 in (mm)	135.8 (3450)	135.8 (3450)	135.8 (3460)	126.8 (3220)	126.8 (3220)	135.8 (3450)	135.8 (3450)	140.2 (3560)	156.7 (3980)	168.5 (4280)
	Overall Width	11 in (mm)	79.1 (2010)	79.1 (2010)	79.1 (2010)	58.3 (1480)	58.3 (1480)	79.1 (2010)	79.1 (2010)	79.1 (2010)	85.8 (2180)	85.4 (2170)
	Overhead Guard Height	14 in (mm)	97.2 (2470)	97.2 (2470)	97.2 (2470)	91.3 (2320)	91.3 (2320)	97.2 (2470)	97.2 (2470)	97.2 (2470)	101.6 (2580)	101.2 (2570)
	Minimum Turning Radius	15 in (mm)	128.0 (3250)	128.0 (3250)	128.0 (3250)	114.2 (2900)	114.2 (2900)	128.0 (3250)	128.0 (3250)	131.9 (3350)	145.7 (3700)	156.3 (3970)
	Minimum Intersecting Aisle	16 in (mm)	116.5 (2960)	116.4 (2960)	119.7 (3040)	115.0 (2920)	115.0 (2920)	116.5 (2960)	116.5 (2960)	119.7 (3040)	130.3 (3310)	141.3 (3590)
	Maximum Drive Speed	Laden 17 m(km)/hr	14.9 (24)	14.9 (24)	14.9 (24)	15.5 (25)	15.5 (25)	16.1 (26)	16.1 (26)	16.1 (26)	16.1 (26)	18.6 (30)
	Lifting Speed	Laden 18 in(mm)/s	13.8 (350)	13.0 (330)	12.2 (310)	18.1 (460)	17.7 (450)	19.7 (500)	19.7 (500)	18.1 (460)	15.0 (380)	10.6 (270)
Lifting Height	19 in(mm)	118.1 (3000)	118.1 (3000)	118.1 (3000)	118.1 (3000)	118.1 (3000)	118.1 (3000)	118.1 (3000)	118.1 (3000)	118.1 (3000)	118.1 (3000)	
CHASSIS	Maximum Gradeability	20 %	20	20	15	20	20	20	20	20	20	20
	Front Tire	Pneumatic 21	8.25-15-14 PR	8.25-15-14 PR	8.25-15-14 PR	300-15-18 PR	300-15-18PR	8.25-15-14 PR	8.25-15-14PR	8.25-15-14 PR	9.00-20-14 PR	9.00-20-14 PR
	Rear Tire	Pneumatic 22	8.25-15-14 PR	8.25-15-14 PR	8.25-15-14 PR	7.00-12-12 PR	7.00-12-12 PR	8.25-15-14 PR	8.25-15-14PR	8.25-15-14 PR	9.00-20-14 PR	9.00-20-14 PR
	Wheelbase	23 in (mm)	88.6 (2250)	88.6 (2250)	88.6 (2250)	82.7 (2100)	82.7 (2100)	88.6 (2250)	88.6 (2250)	88.6 (2250)	98.4 (2500)	110.2 (2800)
	Service Weight	24 lb (Kg)	18810 (8550)	20130 (9150)	21450 (9750)	14190 (8550)	14696 (6680)	18810 (8550)	20130 (9150)	21450 (9750)	24112 (9750)	28820 (13100)
POWER TRAIN	Engine Model	25	4.3L			1104D		QSB 3.3 C99		QSB 4.5 C110		
	Engine Manufacturer	26	GM			Perkins		Cummins		Cummins		
	Battery Voltage and Capacity	27 V/Ah	12/80			(12/80) x2		(12/80) x2		(12/80) x2		
	Transmission Type	28	Powershift/Automatic			Powershift/Automatic		Powershift/Automatic		Powershift/Automatic		
	Transmission Stage	29 fwd/rvs	1/1 (2/2)			1/1 (2/2)		1/1 (2/2)		1/1 (2/2)		

REV 06-14



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

