



## TECHNICAL INFORMATION

### FORK LIFT TRUCK

### FERRARI F 16

#### CHASSIS

All welded box type. Torsion resistant structure. Low centre of gravity.

#### ENGINE

**PERKINS 1106C-E60TA.** Lowest fuel consumption, and best performances. Euromot step 2

#### TRANSMISSION

**ZF WG 161** - Power-shift with integrated torque converter - 3 Speeds Forward and 3 Speeds Reverse.

#### FRONT AXLE

Extra heavy duty type. Hub reduction. Multiple discs in oil bath. Oil cooling.

#### REAR AXLE

Articulating axle with double acting single cylinder.

#### POWERED STEERING

Full hydrostatic steering system (Orbitrol). Steering wheel in cab.

#### BRAKING SYSTEM

Service brakes by wet discs acting on front wheels. Parking and emergency braking system by release spring operated by manual lever in cab.

#### HYDRAULIC SYSTEM

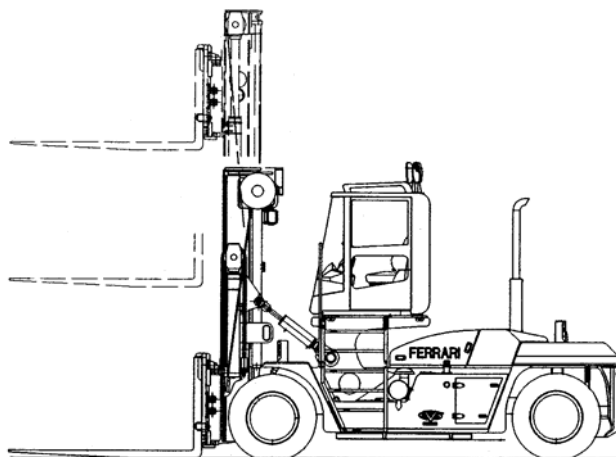
Powerful and reliable. **Variable displacement pumps** with loadsensing distributor electro-hydraulic type to reduce fuel consumption and emissions. Load sensing levers to control mast and forks movements smoothly and efficiently

#### ELECTRICAL SYSTEM

The most reliable and easy to service. 24 V. - Two 12 V. batteries of low maintenance type. High performance alternator.

#### MAST

High torsion. High quality steel. Free visibility. Heavy duty bearings. Lift cylinders hoses and chains located on the blind angles.



#### INSTRUMENTS

Engine water thermometer. Fuel gauge. Hourmeter. RPM meter.

#### WARNING LIGHTS

Engine coolant high temp. Hydraulic oil high temp. Transmission oil high temp. Brake oil low pressure and high temp. Engine oil low pressure. Direction warning lights. Low battery indicator. Brake applied. Amber beacon. Working light. Emergency lights. Fuel low level. Flood lights.

#### MISCELLANEOUS

Heater - Rear view mirror - Front lights - Rear lights - Working lights - Amber beacon - Front and rear direction lights - Braking lights - Reverse buzzer - Integral forged steel forks, 2.400 mm. length.

#### COMMANDS

Front, rear and top window wipers and front and rear washer,

electronic gearshift with anti-reverse protection system, electronic controlled accelerator pedal. Multifunctional joystick

#### OPTIONS:

Air conditioning in cab. - 12 V. plug for radio system - Extinguisher - Rear and upper glass defroster - Load indicator and anti-overtipping overloading protection- Set of 4 extra working lights - Catalytic Muffler - Spare Wheel - Duplex and triplex mast with free lift. Quickly detachable forks and / or telescopic side spreader ISO 20' 40'

#### DRIVER'S CAB

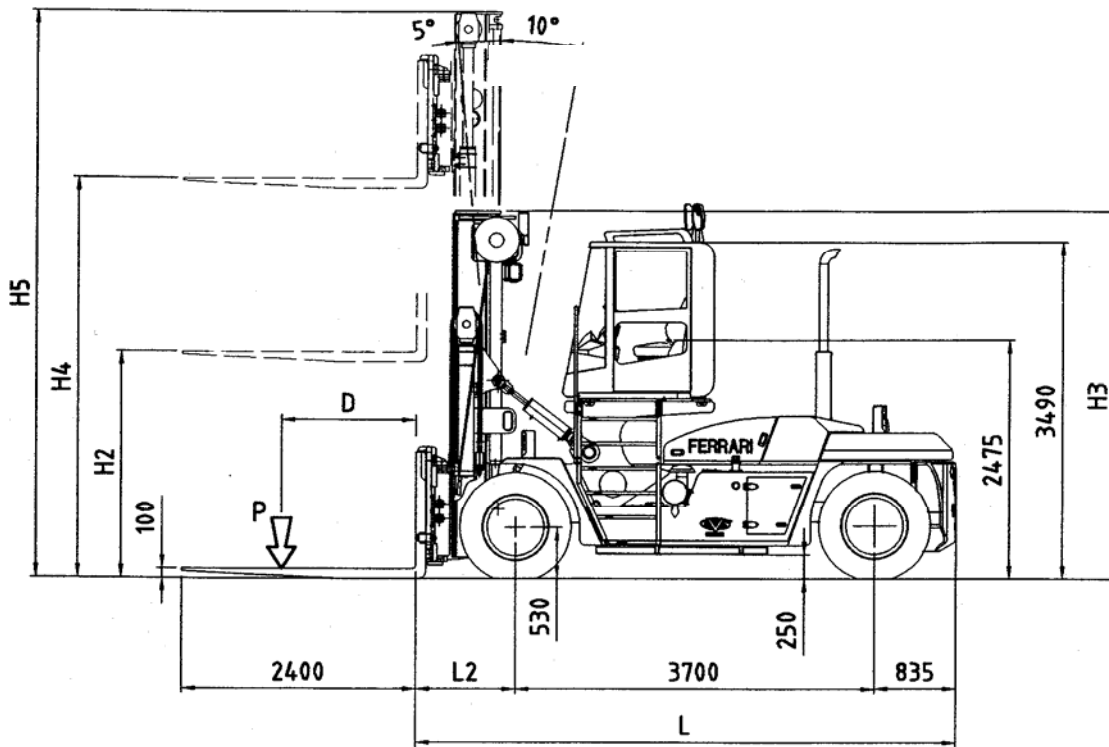
The most comfortable and ergonomic. Sound proof. Fitted on silent blocks to reduce vibrations. Best all round visibility. Safety glasses. Adjustable operator seat. Fully adjustable steering wheel. Steel structure meeting FOPS criteria

#### LIQUID CAPACITIES

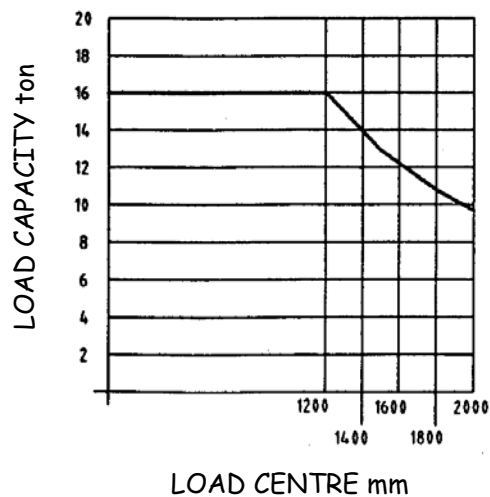
Fuel	lt.	210
Hydraulic oil	lt.	280

SPECIFICATION	01 Manufacturer				CVS
	02 Model				FERRARI F 16
	03 Lifting capacity			Kg.	16000
	04 Load Centre		L 4	mm.	1200
	05 Power unit				Diesel Engine
	06 Steering				Steering wheel in Cab
	07 Tyre type	Front / Rear			Pneumatic
	08 Wheels	Number at Front/Rear (*=driven)			4* / 2
DIMENSIONS	09 Lift, duplex mast	Standard	H 4	mm.	3500
	12 Forks	Thickness	H 1	mm.	100
		Width	B 1	mm.	240
		Length (standard)	L 1	mm.	2400
	13 Distance between forks	Minimum/Maximum	V	mm.	730/2330
	14 Side shifter	Max + - R-L	V 1	mm.	+800-800
	15 Mast tilt angle	Forward/Backward	$\alpha/\beta$		5/10
	16 Overall dimensions	Length without forks	L	mm.	5515
		Width	B	mm.	2570
		Mast height, min.	H 3	mm.	3435
		Mast height, max	H 5	mm.	5185
	20	Height	H 6	mm.	3500
	21	Seat height	H 7	mm.	2475
	22 Turning radius	Inner/Outer	R 1/ 2	mm.	510/5000
PERFORMANCE	23 Distance from front axle	centre to load	L 2	mm.	980
	24 Aisle for 90° stacking	Incl. 200 mm. safety margin	A 1	mm.	8620
	25 Stability	ISO 1074 (Yes/No)			YES
	26 Speeds	Travelling F. & R. Laden/Unladen		km/h	25/28
		Lifting Laden/Unladen		m/s	0.32/0.33
		Lowering Laden/Unladen		m/s	0.26/0.25
	29 Drawbar pull	Max - Laden		kN	125
	30 Gradeability	Cont. at 2 Km/h - Laden		%	-
	31	Max at 0 km /h - Laden		%	25
WEIGHTS	32 Gross vehicle weight			Kg.	24000
	33 Axle load - Front	Unladen		Kg.	11000
		Laden		Kg.	36500
	34 Axle load - Rear	Unladen		Kg.	13000
		Laden		Kg.	3500
TYRES BRAKES CHASSIS	35 Tyres	Number - Front/rear			4/2
	36	Size - Front		ins.	12.00-20 (*)
	37	Size - Rear		ins.	12.00-20 (*)
	38 Wheelbase		L 3	mm.	3700
	39 Track	Between centres - driven wheels		mm.	-
	40 Ground clearance	Under the mast		mm.	250
	41	Mid-way along the wheelbase		mm.	400
	42 Foot brake system	Type/brake wheels			Multiple wet disk brake
	43 Parking brake	Type/brake wheels			Spring brake/ driven wheels
STEERING SYSTEM	44 Type				Hydrostatic
DRIVING SYSTEM	45 Engine	Manufacturer - Type			Perkins 1106C-E60TA
	46	Rating		kW/(hp)	130(177)
	47	Rated Speed		RPM	2200
	48	Euromot step 2-EPA/CARB tier 2			yes
	49	Number Cylinders - swept volume		cm3	6/5980
	50	Compression Ratio			17.25:1
	51	Fuel Consumption (Average)		l/h	9-11
	52 Alternator	Type - Rating		A	AC - 80
	53 Starting Batteries	Voltage - Capacity		V/Ah	2x12V / 120
	54 Drive Axle	Type			With double reduction
	55 Gear Box	Type-number of gears forward/rev.			ZF WG 161 3/3
	56 Clutch	Clutch type			Torque converter
	57 Hydraulic pressure	For attachments		Bar	140
	58 Sound Level	Inside Cabine (EN 12053)		dB(A)	75

\* Alternatively 12.00 24 tyres may be installed



LOAD DIAGRAM



Description	Duplex 5000	Duplex 6000	Duplex Full Free Lift	Triplex Full Free Lift
Length without forks (L)	5515	5515	5515	5555
Distance from front axle (L2)	980	980	980	1020
Lifting height mm (H4)	5000	6000	5000	6000
Max overall height mm (H5)	6685	7685	6685	6950
Min overall height mm (H3)	4185	4685	4185	2950
Free Lift (H2)	--	--	2500	1925

( the masts listed in above chart are available as options )

