

CLARK

CMP SERIES

Internal Combustion



**Diesel/LPG
1.5/1.8/2.0s ton**



Clark forklifts are your best material handling value.

Clark CMP pneumatic tire trucks, ranging from 1.5 to 2.0 ton capacity, offer exceptional driver ergonomics and are extremely well featured, with everything from full floating operators compartments to halogen lights as standard equipment. High performance and a whole host of features for better comfort and control, let you more easily perform the job at hand.

The CMP Series
A New Generation of Forklift





CMP 15D

CLARK

CLARK

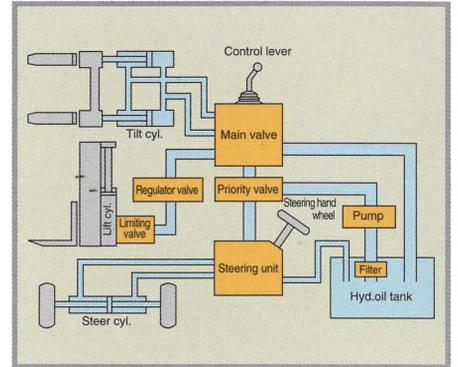
03-4

02-3

TOTALIFT

TOTAL

Productivity



● Hydraulic system

The Hydraulic system was developed by Clark exclusively for lift truck application. The system improves performance, reduces energy loss, is adaptable to specific requirements and is easily serviceable. A single hydraulic pump with integral steering priority valve is transmission driven, providing low noise and separation from engine heat. Priority-demand system incorporates a steering gear feedback loop that saves energy by providing steering fluid only during steer operation.



● Mast tilt

Forward and backward tilts of 6° and 10° provide increased efficiency. The design incorporates the latest technology to assure the proper balance among carriage, rails and cylinder.



● **Excellent brakes**

Self-adjusting shoes provide smooth balanced braking. Using the inching pedal, an operator can maintain high engine speed for maximum mast performance, while creeping into loads, or starting up without rollback on ramps and inclines. Brake master cylinder with large fluid capacity assures smooth pedal operation and improved brake performance.



● **Travel speed**

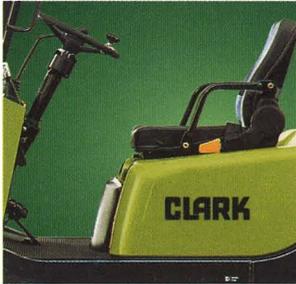
CMP15D/L~20sD/L
Without Load
17.0km/h~
17.5km/h



Ergonomics

● The operator's compartment

Ample space and long hours of operation are ensured by Clark steering column position. The entire compartment is designed with the operator in mind. The operator can concentrate on the task at hand and accomplish it faster and safer with less fatigue. Foot pedals with same layout as in automobiles assure smooth operation with very little effort and also permit a flat floorplate and more foot room.



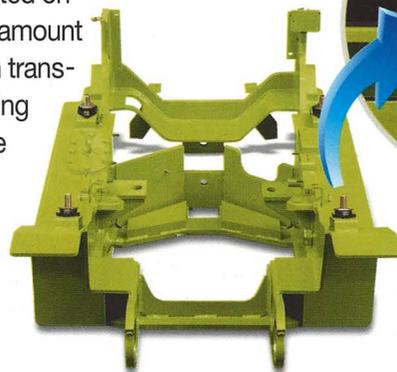
● Electric directional control system

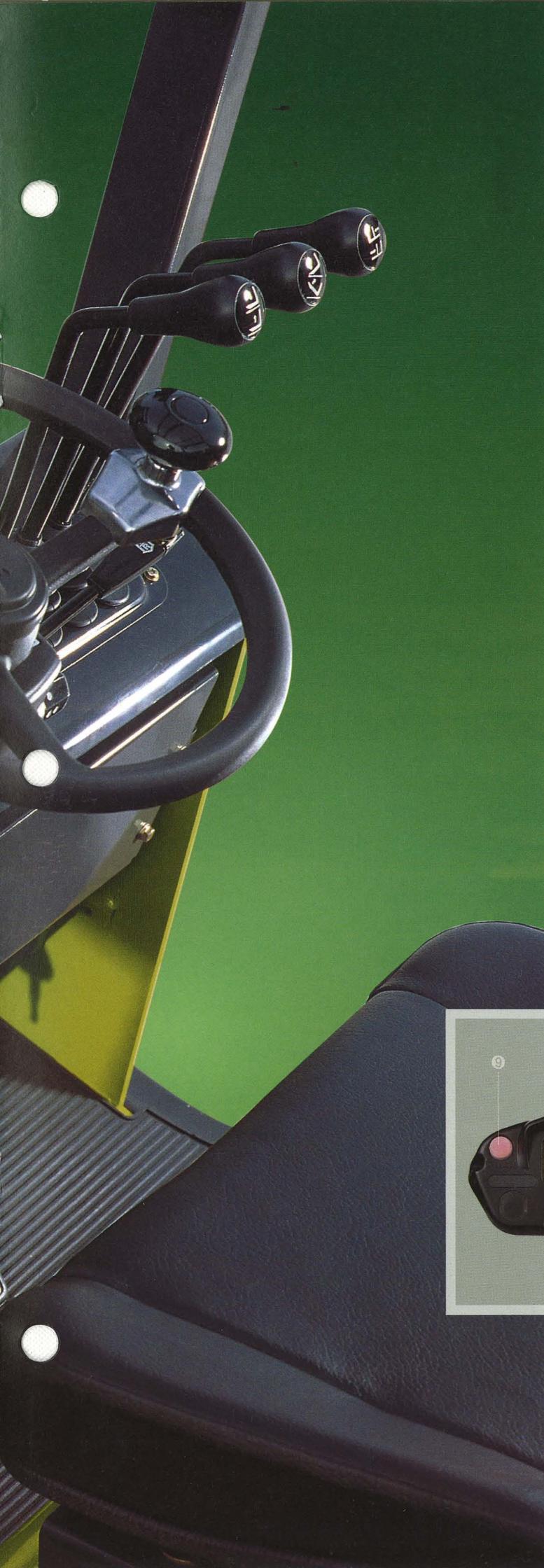
Electric directional control enables true finger-tip operation, the operator's left hand can remain on the steering wheel, minimizing arm fatigue. The transmission forward and reverse clutch packs are actuated by electric solenoids. This feature protects the transaxle components, reducing service and repairs.



● Full floating system

The full floating system, along with isolated operator cell supported on rubber mounts, reduces the amount of engine noise and vibration transmitted to the operator, assuring both a more comfortable ride and greater frame durability.



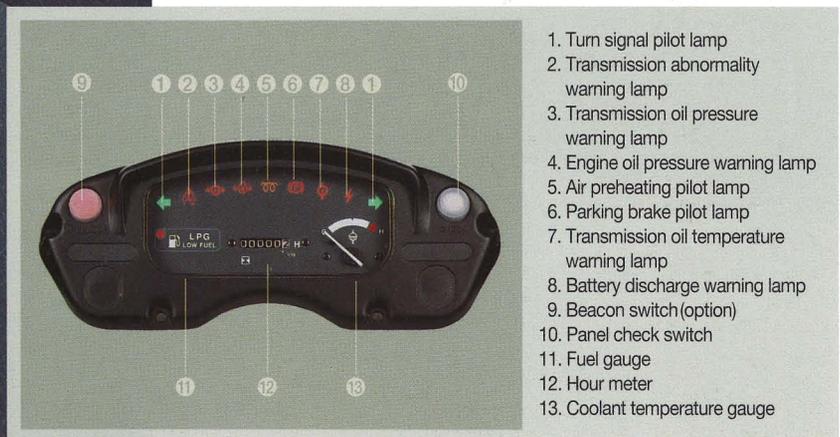


● **High visibility**

The wide view mast, overhead guard and load backrest design improve operator vision and help reduce product damage during travel and stacking operations.

● **Halogen lamps**

The bright halogen bulbs used in front and rear lamps ensure adequate site illumination, either when working indoors or at night.



1. Turn signal pilot lamp
2. Transmission abnormality warning lamp
3. Transmission oil pressure warning lamp
4. Engine oil pressure warning lamp
5. Air preheating pilot lamp
6. Parking brake pilot lamp
7. Transmission oil temperature warning lamp
8. Battery discharge warning lamp
9. Beacon switch (option)
10. Panel check switch
11. Fuel gauge
12. Hour meter
13. Coolant temperature gauge

● **Integrated monitor panel**

Continuously monitors all engine functions and displays any problem that may occur, reducing the possibility of a major breakdown and resulting in great productivity.

Durability



- **High powered engine**

Yanmar Diesel engine's economic efficiency and environmental friendliness earned it international recognition, while its minimum noise and vibration along with powerful force and durability provide an optimal operation.



Mitsubishi 4G63 GAS/LPG engine's high power comes with low fuel consumption and low maintenance. The latest design IMPCO LPG system aids engine starting and increases durability. The fuel lock valve is engineered to sense engine vacuum and automatically shuts the engine down, should loss of oil pressure or overheating of the engine or transmission occur.



- **Transaxle**

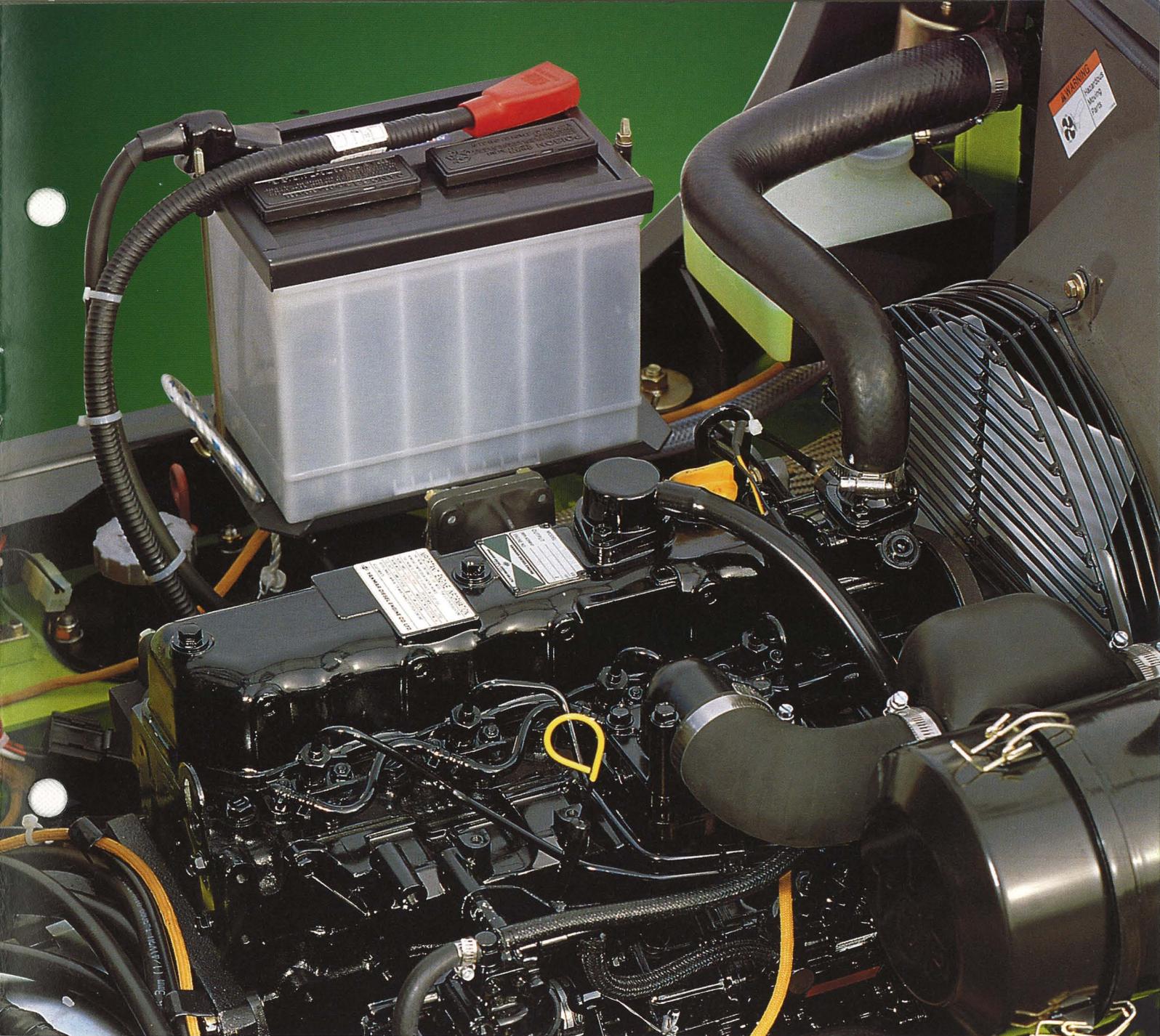
TA-12 transaxle built by Clark is engineered exclusively for forklift use and is an integral design from engine to wheels. Key features include a full-floating drive axle and precise inching and brake controls.

- **Strong mast rails**

Interlocking rail/canted roller mast design utilizes



specialty rolled I-beam inner rail and C-channel section outer rails for high strength under upright load conditions and greater tolerance to unbalanced load conditions.



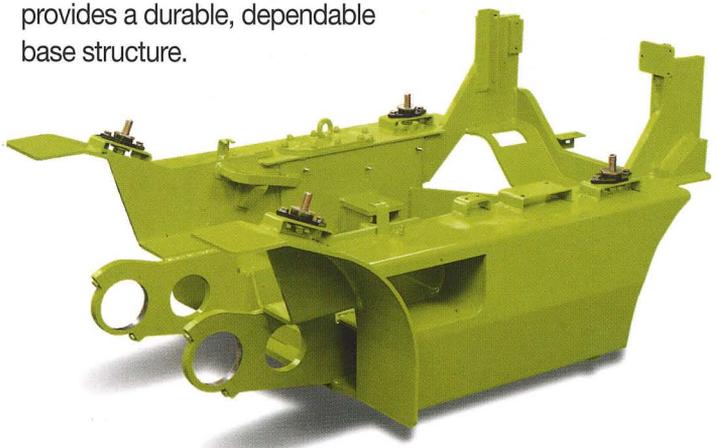
● **Fully hydraulic power steering**

The fully hydraulic power steering system reduces steering effort and the strong steer axle mounted in impact relaxation mounts increases stability while driving as well as protects steer cylinder from damage.



● **One piece steel frame**

Rugged, compact, one piece frame offers steel plate protection to components such as the engine and transaxle. Heavy-duty frame of formed steel plate with strong contoured sections provides a durable, dependable base structure.



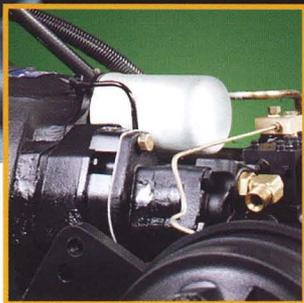
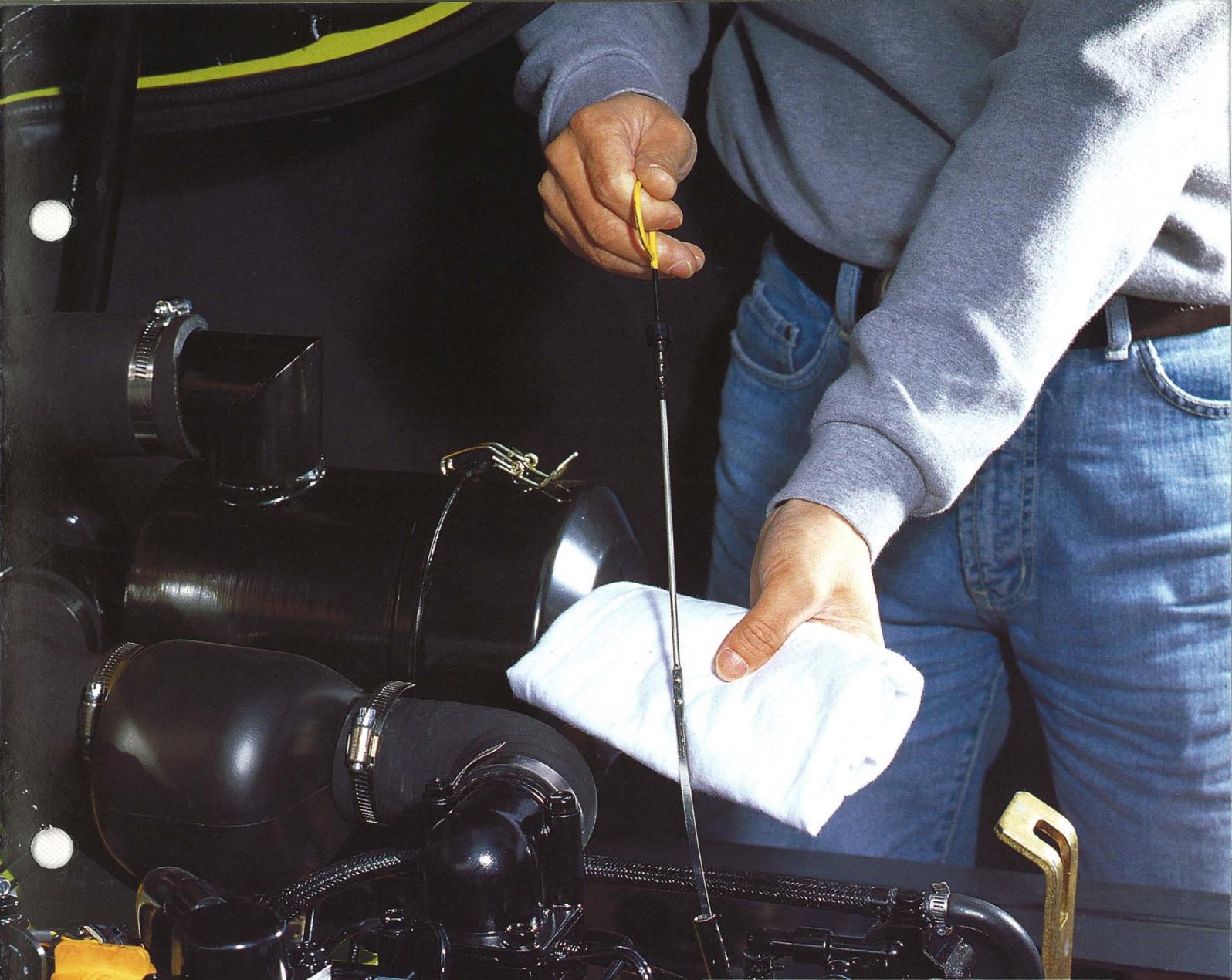
Maintenance



- **Easy access for maintenance**

Wide opening engine hood provides easy access for maintenance while one touch gas cylinder makes effortless opening as well as gives extra convenience by holding the engine hood firmly. The floor plate is easily detachable without any tools.





- **Air filter** can be quickly cleaned or changed.
- **Radiator** can be cleaned or removed without disassembling counterweight.
- **Transmission and engine oil filter** incorporate spin-on filters for faster servicing.
- **Fuse box** is readily accessible in case of power failure.

Safety

- **Neutral start** is fitted to prevent the engine from being started, unless the gear lever is placed in the neutral position.
- **Tilt lock valve** prevents the mast from tilting forward accidentally while the engine is off.
- **Self locking gas cylinder** prevents the hood from closing accidentally.
- **Flow limiting valve** prevents the sudden drop of a load in the rare event of a hydraulic failure.
- **An electrical interlock** prevents gear engagement with the parking brake applied.

CMP series meets CE, ANSI-ASME, OSHA, and UL regulations.

SPECIFICATIONS

Model			CMP15D	CMP15L	CMP18D	CMP18L	CMP20sD	CMP20sL		
Characteristics	Load Capacity		kg	1500	1500	1800	1800	2000	2000	
	Load Center		mm	500						
	Power Type			Diesel	LPG	Diesel	LPG	Diesel	LPG	
Dimensions	Maximum Fork Height (MFH)		mm	3000						
	Free Lift		mm	100						
	Fork Size	LXWXT	mm	1070×100×50						
	Tilt Range	FWD/BWD	deg	6 / 10						
	Length To Fork Face		mm	2170		2195		2240		
	Overall Width		mm	1110						
	Height	Mast Lowered		mm	2090					
		Extended		mm	4280					
		Overhead Guard		mm	2060					
	Turning Radius (Outside)		mm	2035		2055		2100		
Load Distance		mm	390							
Performance	Speed	Travel Max.	With Load	km/h	17.0	16.3	17.0	16.1	17.0	16.0
			Without Load	km/h	17.5	17.4	17.5	17.4	17.5	17.0
	Lifting	With Load/ Without Load	mm/sec	530 / 570		510 / 570		500 / 570		
			Lowering	mm/sec	510 / 510		510 / 510		510 / 495	
	Max.Gradeability (@1.6km/h)		With Load/ Without Load	%	39 / 21	31.8 / 20.0	36 / 18	28.5 / 16.8	33 / 15	26 / 16
Total Weight		kg	2690		2820		3080			
Chassis	Tires	Number	Front / Rear	2 X/2						
		Size	Front / Rear	6.5 × 10 -12PR / 5.00 × 8 -10PR						
	Wheel Base		mm	1350						
	Tread		Front / Rear	mm	930 / 900					
	Underclearance	At Lowest Point (Mast)	mm	117		117		115		
Engine and Transmission	Battery	Voltage / Capacity (20hrs)	V/AH	12 / 75	12 / 45	12 / 75	12 / 45	12 / 75	12 / 45	
	Internal Combustion Engine	Make / Model			Yanmar/4TNE88	Mitsubish 4G63	Yanmar/4TNE88	Mitsubish 4G63	Yanmar/4TNE88	Mitsubish 4G63
		Rated Horsepower/r.p.m	SAE HP		38.6 / 2400Net	34.1 / 2300Net	38.6 / 2400Net	34.1 / 2300Net	38.6 / 2400Net	34.1 / 2300Net
			kw		28.8 / 2400	25.4 / 2300	28.8 / 2400	25.4 / 2300	28.8 / 2400	25.4 / 2300
		Rated Torque/r.p.m	kg-m		14.0 / 1400	12 / 1600	14.0 / 1400	12 / 1600	14.0 / 1400	12 / 1600
		Number Of Cylinder			4					
		Piston Displacement		cc	2190	1997	2190	1997	2190	1997
	Fuel Tank Capacity		l/kg	33l	15kg	33l	15kg	33l	15kg	
	Transmission	Type			Powershift					
		Stage	FWD/RVS		1 / 1					
Operating Pressure	For Attachment	kg/cm ²	170							

*Materials and specifications are subject to change without notice.

CLARK Material Handling
Asia

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