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MATERIALS HANDLING

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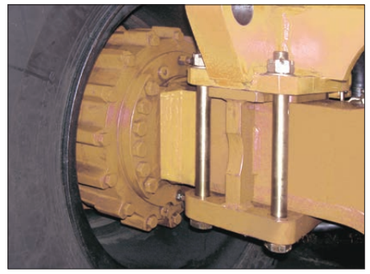
COUNTERBALANCED INTERNAL COMBUSTION FORKLIFT TRUCK

IC

CPCD140/150/160/180/200/
250/280/300/320/420/460
Cu2 Cu3 Cu4 VZ2-12III VD2-12III



CPCD140-180 FORKLIFT'S Advantage

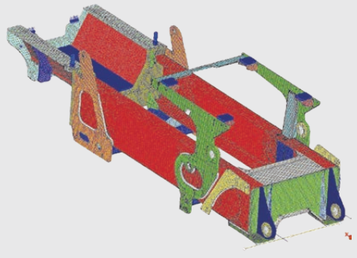




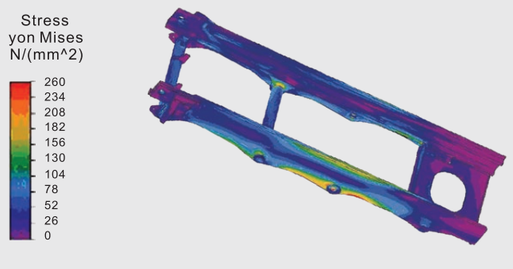
- VOLVO Diesel engine, comply to EPA standards on None-road application, with genuine attached parts to guarantee the normal use and maintenance.
- DANA Transmission system. This transmission system integrated various control software in one controller, easy to handle. It can also be diagnosed easily with the diagnostic machine interface.
- Kessler Front Axle. This Axle has high load capacity and brake torque to be safe and reliable enough. Wet type brake is water-resistant and dust-resistant and maintenance free.
- Parker Main Hydraulic system. Using hydraulic oil pressure feedback various pump system to realize the continuous oil supplying and reduce the overflow losses and increase the efficiency to save the energy and reduce the oil temperature.
- The mast is very strong and durable, and with integral side-shifting fork positioner. It's unnecessary to fit additional side shift.

CPCD200-320 FORKLIFT'S Advantage

- VOLVO Diesel engine, comply to EPA standards on None-road application, with genuine attached parts to guarantee the normal use and maintenance.
- ZF Transmission system. This transmission system integrated various control software in one controller, easy to handle.It can also be diagnosed easily with the diagnostic machine Interface.
- Kessler Front Axle. This Axle has high load capacity and brake torque to be safe and reliable enough. Wet type brake is water-resistant and dust-resistant and maintenance free.
- Parker Main Hydraulic system. Using prior-steering strategy Pre-open valve on Multi-control Valve to separate the operation level and control valve to realize remote control. It can be operated with comfort and safety and release the tension of the driver.
- The mast is very strong and durable, and with integral side-shifting fork positioner. It's unnecessary to fit additional side shift.



Chassis Finite Element Analysis



Mast Finite Element Analysis

CPCD420-460 FORKLIFT'S Advantage

- Cummins Diesel engine, comply to EPA standards on None-road application, with genuine attached parts to guarantee the normal use and maintenance.
- ZF Transmission system. This transmission system integrated various control software in one controller, easy to handle.It can also be diagnosed easily with the diagnostic machine interface.
- Kessler Front Axle. This Axle has high load capacity and brake torque to be safe and reliable enough. Wet type brake is water-resistant and dust-resistant and maintenance free.
- Rexroth Main Hydraulic system. Using hydraulic oil pressure feedback various pump system to realize the continuous oil supplying and reduce the overflow losses and increase the efficiency to save the energy and reduce the oil temperature.
- Using prior-steering strategy Pre-open valve on Multi-control Valve to separate the operation level and control valve to realize remote control. It can be operated with comfort and safety and release the tension of the driver.



Manufacturer and Technical Data

Model		CPCD140-Cu3	CPCD150-Cu3	CPCD160-Cu3	CPCD160-Cu4	CPCD180-Cu2	CPCD200-VZ2-12III	CPCD250-VZ2-12III	CPCD280-VZ2-12III	CPCD300-VZ2-12III	CPCD320-VZ2-12III	CPCD420-VD2-12III	CPCD460-VD2-12III
Overall Height Fork Raised	h4	4840	4840	4840	4840	5840	5995	5995	6120	6120	6120	6830	6830
Lifting Height	h3	3000	3000	3000	3000	4000	4000	4000	4000	4000	4000	4000	4000
Overall Height Fork Lowered(Upright)	h1	3340	3340	3340	3340	3840	3995	3995	4120	4120	4120	4830	4830
Fork Thickness	T	90	90	90	90	100	110	110	115	115	115	145	145
Overall Length(with Forks)	L1	7410	7410	7410	8380	8380	8782	8782	9242	9242	9242	10370	10370
Fork Length	L3	1820	1820	1820	2440	2440	2440	2440	2440	2440	2440	2440	2440
Wheel Base	L5	3650	3650	3650	4000	4000	4250	4250	4650	4650	4650	5500	5500
Overall Height(Cab)	h6	3260	3260	3260	3260	3260	3875	3875	3930	3930	3930	4220	4220
Overall Width	B	2560	2560	2560	2560	2560	3040	3040	3460	3460	3460	4120	4120
Lateral Fork Adjustment(Outside of Fork)	R	900-2150	900-2150	900-2150	900-2150	900-2150	820-2700	820-2700	920-2850	920-2850	920-2850	1250-2850	1250-2850
Max Side Shift Distance		±312.5	±312.5	±312.5	±312.5	±312.5	±470	±470	±482.5	±482.5	±482.5	±400	±400
Fork Width	W	250	250	250	250	250	250	250	300	300	300	300	300
Min.Turning Radius	Wa	4970	4970	4970	5600	5600	5920	5920	6395	6395	6395	7518	7518

Performance specifications

Model		CPCD140-Cu3	CPCD150-Cu3	CPCD160-Cu3	CPCD160-Cu4	CPCD180-Cu2	CPCD200-VZ2-12III	CPCD250-VZ2-12III	CPCD280-VZ2-12III	CPCD300-VZ2-12III	CPCD320-VZ2-12III	CPCD420-VD-12III	CPCD460-VD-12III
Load Capacity	Kg	14000	15000	16000	16000	18000	20000	25000	28000	30000	32000	42000	46000
Load Center	mm	900	900	900	1200	1200	1200	1200	1200	1200	1200	1200	1200
Power Type		柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil	柴油 Diesel oil
Wheel (Front/rear) X=Driving Wheel		4X/2	4X/2	4X/2	4X/2	4X/2	4X/2	4X/2	4X/2	4X/2	4X/2	4X/2	4X/2
Tire(Front/Rear)		12.00-24-20PR/12.00-20-20PR					14.00-24-28PR/14.00-24-28PR		16.00-25-32PR/16.00-25-32PR			18.00-25-40PR/18.00-25-40PR	
Internal Combustion Engine		Cummins QSB6.7					VOLVO TAD851VE					VOLVO TAD1151VE	
Internal Combustion Engine Number of Cylinder		6-107X124					6-110X135					6-123X152	
Internal Combustion Engine Rate Horsepower	kw/rpm	142/2300					185/2200					265/2100	
Internal Combustion Engine Rate Torque	Nm/rpm	929/1500					1160/1350					1785/1316	
EPA Standards		欧III EPAIII 国III					欧III EPAIII 国III					欧III EPAIII 国III	
Transmission Number of Speed (Fwd/Rvs)		3/3					3/3					4/4	

Note: The forklift types are matchable with engines.

CPCD140-160 Wide view mast

Mast name	Max.fork Height (mm)	Overall height (mm)	Capacity (kg)			Tilt angle (F/B)	Remarks
			CPCD140	CPCD160	CPCD160(1200)		
M300	3000	3340	14000	16000	16000	6°/12°	Standard equipment
M350	3500	3590	14000	16000	16000	6°/12°	
M400	4000	3840	14000	16000	16000	6°/12°	
M450	4500	4090	14000	16000	16000	6°/12°	
M500	5000	4390	14000	16000	16000	6°/6°	
M550	5500	4640	13000	15000	15000	3°/6°	
M600	6000	4940	12000	14000	14000	3°/6°	
M650	6500	5190	11000	13000	13000	3°/6°	

CPCD140-160 Wide view mast

Mast name	Max.fork Height (mm)	Overall height (mm)	Tilt angle (F/B)	Remarks
M400	4000	3995	6°/10°	Standard equipment
M450	4500	4245	6°/10°	
M500	5000	4495	6°/10°	
M550	5500	4745	6°/10°	
M600	6000	4995	6°/10°	
M650	6500	5245	6°/10°	
M700	7000	5495	6°/10°	
M750	7500	5745	6°/10°	
M800	8000	5995	6°/10°	

CPCD280-320 Wide view mast

Mast name	Max.fork Height (mm)	Overall height (mm)	Tilt angle (F/B)	Remarks
M400	4000	4120	6°/10°	Standard equipment
M450	4500	4370	6°/10°	
M500	5000	4620	6°/10°	
M550	5500	4870	6°/10°	
M600	6000	5120	6°/10°	
M650	6500	5370	6°/10°	
M700	7000	5620	6°/10°	
M750	7500	5870	6°/10°	
M800	8000	6120	6°/10°	

CPCD420-460 Wide view mast

Mast name	Max.fork Height (mm)	Overall height (mm)	Tilt angle (F/B)	Remarks
M400	4000	4830	6°/10°	Standard equipment
M450	4500	5080	6°/10°	
M500	5000	5330	6°/10°	
M550	5500	5580	6°/10°	
M600	6000	5830	6°/10°	
M650	6500	6080	6°/10°	
M700	7000	6330	6°/10°	
M750	7500	6580	6°/10°	
M800	8000	6830	6°/10°	

Note: Duplex full free mast is optional

Standard distrivution

Head Light	Torque Converter Dipstick
Front Combination Light	Wideview Mast
Hour Gauge	Control Valve
Water Temperature Gauge	Side-shifting Fork Positioner
Fuel Gauge	Standard Forks
Horn	Lifting Hydraulic Regulator
Back-up Alarm	Hydraulic Power Steering
Light Bracket	Tilting Lock Valve
Pilot Valve Handle	Steering Column Tilt Adjustment
Charge Indicator	Cab
Engine Oil Pressure Indicator	Air Conditioner
Preheating Indicator	Rearview mirrow
Engine Glow Plug System	Draw Pin
Engine Key Flameout	Air Cleaner
Hydraulic Oil Level Mirror	Tools

Optional device

Solid Tire
Backsight system
Customer referred color

