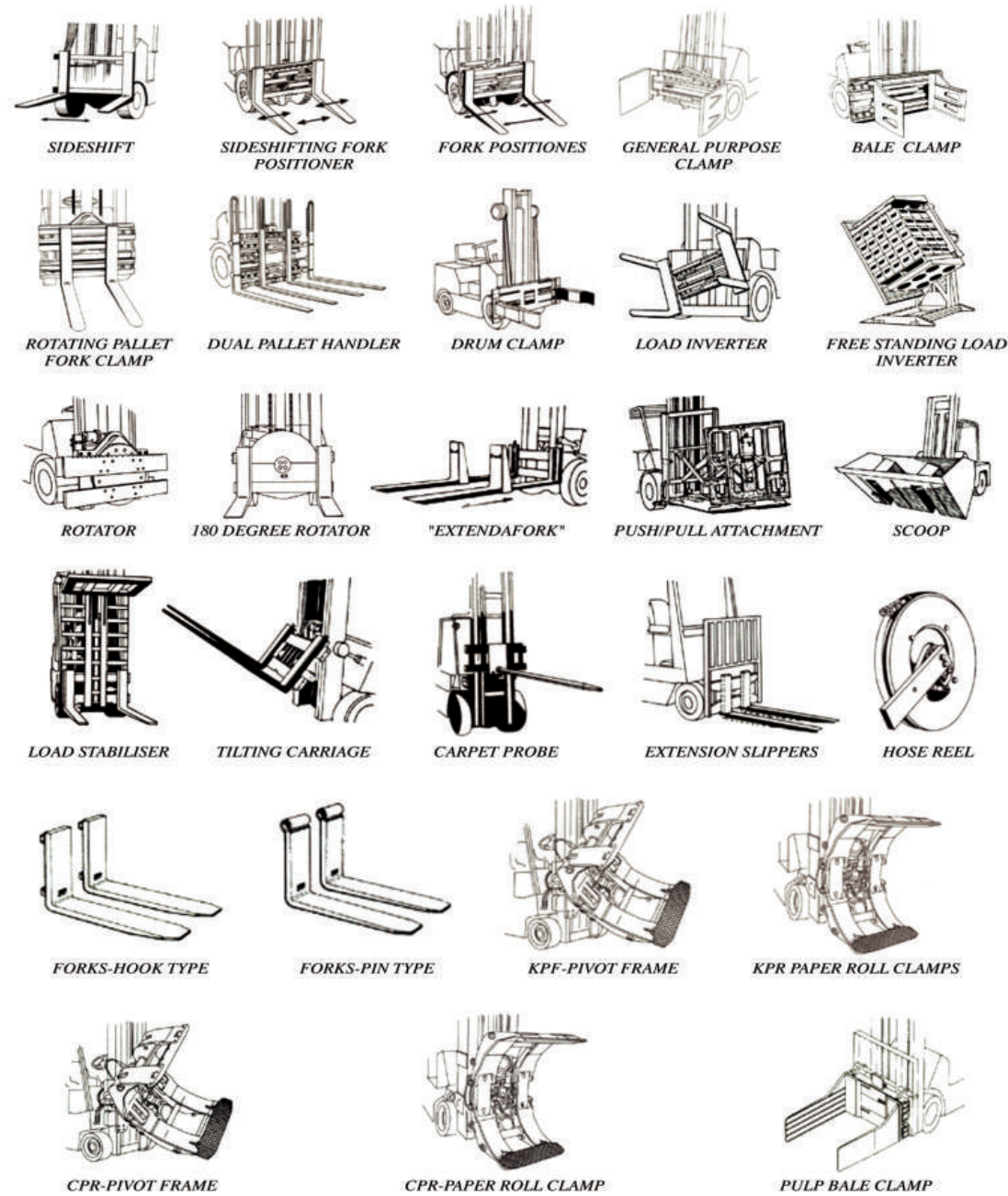


Attachments for forklifts

Please note that the units below are for illustration purposes only



友嘉實業集團
杭州友高精密機械有限公司
HANGZHOU GLOBAL FRIEND PRECISION MACHINERY CO., LTD.
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TEL: +86-571-8685-3366
FAX: +86-571-8689-3018
FFG: www.ffg-tw.com
Forklift Division: www.feelerforklift.net



2014.03 Rev.1

INNOVATION & EXCELLENCE



1.5-5.0T
DIESEL/ GASOLINE/ LPG

PATENT NO. ZL 2005 3 0115714.9

Oil and Energy Saving, Environment Protection, High Efficiency



Reasonably low-center gravity design

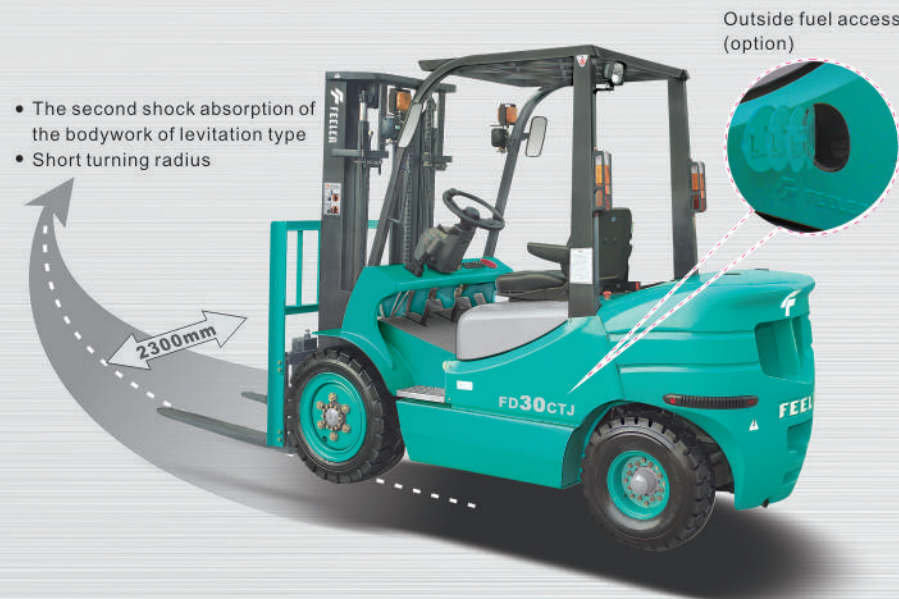
By computer digital imitation, the most suitable and stable low center of gravity is designed. At the same time, body is welded by high intensity steel plate, assuring forklift being more stable and safe in traveling.



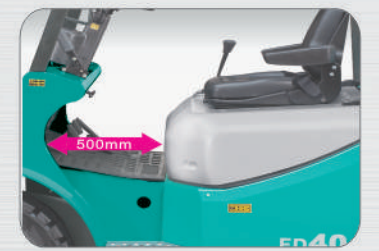
Double-"J" high rigidity mast material and Intelligent system of downing and buffering
During the mast being 100mm~60 mm, speed of intelligent cushion mast automatically becomes slow, in order to avoid the product dash the ground, protecting your products and ground.

100mm
30mm
0mm

- The second shock absorption of the bodywork of levitation type
- Short turning radius



Outside fuel access (option)



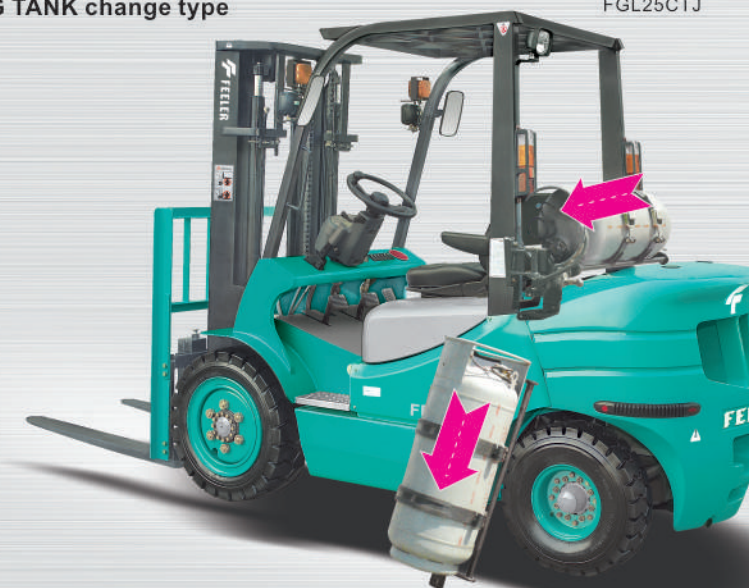
Tilting cylinder which is below -set type and spacious seat
Wide space design for operator moving legs, convenient and free.



Highly qualified battery

LPG TANK change type

FGL25CTJ



Super elastic solid tire
(use on 3—3.5ton)



Shock absorption system
Simple and reliable shock absorption design



Human-based hydraulic steering-handle

The hydraulic steering-handle is on the right of the seat, so the driver can operate easily, as lay the elbow on the armrest of the seat, and the driver's labor intensity is greatly debased.



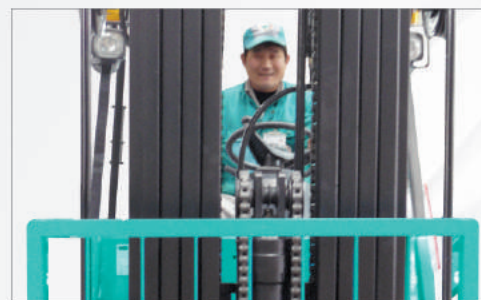
wider and more comfortable seat(option)



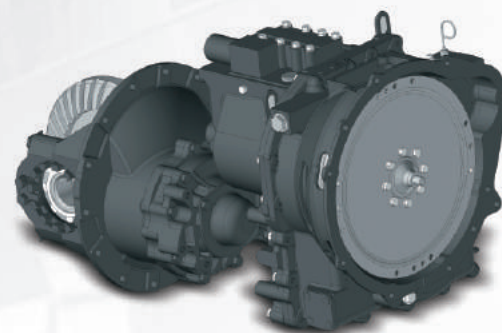
Control valve in the front



Tilt-adjustable steering wheel
According to the working condition and shapes of operators, Tilt-adjustable steering wheel can be adjusted to make operator feel untired after a long time's work.



- 1.3 stages or 4 stages full free mast can be made to meet for the special terrain and personnel vision need.
2. The new design of multi-valve, increases the lifting speed while decrease the hydraulic oil and fuel waste.



3. The option of Korea Wet axle can absorb shake and also strengthen the brake efficiency.

4. Feeler forklift cooperates with a famous American company to manufacture car-carrying weighing forklifts to fit for mining, logistics, express, transportation And also cater for the need of airport, port, and railway station to do the weighing during transit, and the weighing capacity can reach to even 100 ton.

5. According to the different workshops' need, the forklift can uniquely be made to fit for wood factories, rock material factories and other higher dust or higher temperature ground.

6. Feeler forklift cooperates with Italian well-known explosion-prevention Forklift Company to manufacture all kinds of explosion-prevention forklifts as diesel forklifts, gasoline forklifts, LPG forklifts, electric forklifts and so on to cater for the need of petrification industry and Other dangerous industries.

Main Specifications

Characteristics	1.1	Manufacturer		FEELER									
	1.2	Model designation	DIESEL GASOLINE/LPG	FD15C	FD18C	FD20C	FD25C	FD30C	FD35C	FD40C	FD45C	FD45XT	FD50XT
				FD15CT	FD18CT	FD20CT	FD25CT	FD30CT	FD35CT	FD40CT	FD45CT		
				FD15CTJ	FD18CTJ	FD20CTJ	FD25CTJ	FD30CTJ	FD35CTJ	FD40CTJ	FD45CTJ	FD45XTJ	FD50XTJ
				FG15CJ	FG18CJ	FG20CJ	FG25CJ	FG30CJ	FG35CJ	FG40CJ	FG45CJ		
	FG15CTJ	FG18CTJ	FG20CTJ	FG25CTJ	FG30CTJ	FG35CTJ	FG40CTJ	FG45CTJ	FG45XTJ	FG50XTJ			
1.3	Load capacity	kg	1500	1800	2000	2500	3000	3500	4000	4500	4500	5000	
1.4	Operation		SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	SEAT	
1.5	Load centre	mm	500	500	500	500	500	500	500	500	500	500	
1.6	Total weight	kg	2600	2835	3600	3740	4300	4620	5330	5600	6370	6650	
Tires	2.1	Tires		Pneumatic									
	2.2	Front tires size		6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	28-9-15-12PR	28-9-15-12PR	250-15-20PR	250-15-20PR	300-15-18PR	300-15-18PR
	2.3	Rear tires size		5.00-8-8PR	5.00-8-8PR	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR
	2.4	Wheel number(front/rear)		2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Dimensions	3.1	Mast tilt, front/rear	Deg	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12
	3.2	Length to fork face	L2 mm	2230	2270	2620	2620	2780	2820	3050	3050	3154	3154
	3.3	Overall width(single tire)	b mm	1075	1075	1156	1156	1225	1225	1360	1360	1480	1480
	3.4	Height of backrest	h4 mm	1000	1000	1000	1000	1220	1220	1220	1220	1220	1220
	3.5	Lifting height	h mm	3000-5000				3000-6000					
	3.6	Height of overhead guard(cabin)	h3 mm	2050	2050	2130	2130	2150	2150	2190	2190	2250	2250
	3.7	Ground clearance with load,mast	mm	110	110	125	125	135	135	160	160	162	162
	3.8	Min.Right Angle Steering Axle Width with pallet 1000*1200 across forks	mm	1980	1980	2120	2120	2200	2200	2540	2540	2550	2550
	3.9	Min.Right Angle Stacking Axle Width with pallet 1000*1200 across forks	mm	3700	3740	3900	3950	4150	4150	4450	4500	5285	5285
	3.10	Min.turning radius	Wa mm	2060	2060	2410	2410	2450	2470	2850	2850	2820	2820
Performance	4.1	Travel speed, with/without load	km/h	0~14.5		0~20				0~19		0~20	
	4.2	Lifting speed, with/without load	mm/s	500/570	500/570	450/550	450/550	450/470	450/470	300/380	300/380	500/700	500/700
	4.3	Lowering speed, with/without load	mm/s	470/430	470/430	450/430	490/470	490/430	490/430	430/300	430/300	450/340	450/340
	4.4	Climbing ability	%	20				18		15		20	
	4.5	Service brake		Trend/hydraulic									
Drive	5.1	Manufacturer of Diesel engine		XINCHANG 485BPG ISUZU C240 KUBOTA V2403 YANMAR 4TNE92		JIANGLING 493G(ISUZU 4JB1) XINCHANG 490BPG XINCHANG 495BPG XINCHANG 498BPG DACHAI CA496		YANMAR 4TNE92 YANMAR 4TNE98 ISUZU C240 ISUZU 4JG2 KUBOTA V3600 KUBOTA V2403 MITSUBISHI S4S CUMMINS B3.3(Tier 4)		DACHAI CA498 XINCHANG 498BPG XINCHANG 498BT1 ISUZU 4JG2 YANMAR 4TNE98 KUBOTA V3300 KUBOTA V3600 CUMMINS B3.3(Tier 4)		WEICHAI 4105G PERKINS 1104D ISUZU 6BG1	
	5.2	Manufacturer of Gasoline engine		NISSAN K21 WF491		MITSUBISHI 4G64 WF491		NISSAN K25		NISSAN K25		GM 4.3 NISSAN TB42C	
Other	6.1	Fuel box capacity	L	35		50				80		90	
	6.2	Working pressure for attachment	mpa	14		18				18		18	

Mast Standard

Container height limit 40' HQ

	MAST MODEL	Max.lifting height/MM	Load Capacity (Load centre 500mm)(kg)									Retract height (h1) mm					Tilt Angle	Free lift (h2)(with backrest)(mm)					
			FD15C	FD18C	FD20C	FD25C	FD30C	FD35C	FD40C	FDX45C	FDX50C	1.5-1.8t	2-2.5t	3-3.5t	4t	FDX4-5t		Front/back	FD15C/18C	FD20C/25C	FD30C/35C	FD40C	FDX40C-50C
2-STAGE MAST	S200	2000	1500	1750	2000	2500	3000	3500	4000	4500	5000	1525	1550	1580	1695	1748	6°/12°	-	-	-	-	-	
	S250	2500	1500	1750	2000	2500	3000	3500	4000	4500	5000	1775	1800	1830	1955	1998	6°/12°	-	-	-	-	-	
	S300	3000	1500	1750	2000	2500	3000	3500	4000	4500	5000	2025	2050	2080	2205	2248	6°/12°	-	-	-	-	-	
	S330	3300	1500	1750	2000	2500	3000	3500	4000	4500	5000	2175	2200	2230	2355	2398	6°/12°	-	-	-	-	-	
	S350	3500	1500	1750	2000	2500	3000	3500	4000	4500	5000	2275	2300	2330	2455	2498	6°/12°	-	-	-	-	-	
	S400	4000	1500	1650	2000	2500	3000	3200	4000	4500	5000	2575	2600	2630	2755	2798	6°/6°	-	-	-	-	-	
	S430	4300	1400	1500	1900/*2000	2100/*2500	2850/*3000	2850/*3000	3100	4300/*4500	4800/*5000	2725	2750	2780	2955	2948	6°/6°	-	-	-	-	-	
	S450	4500	1350	1450	1800/*1900	1800/*2400	2600/*3000	2600/*3000	3100/*3500	4000/*4500	4600/*4800	2825	2850	2880	3005	3048	6°/6°	-	-	-	-	-	
	S500	5000	1000/*1250	1000/*1400	1300/*1700	1300/*2200	2100/*2850	2100/*2850	2600/*3000	3600/*4300	4000/*4600	3125	3150	3180	3255	3298	6°/6°	-	-	-	-	-	
	S550	5500	*1050	*1250	*1500	*1700	*2400	*2400	-	-	-	3375	3400	3430	-	-	3°/6°	-	-	-	-	-	
S600	6000	*800	*1000	*1300	*1400	*2000	*2000	-	-	-	3625	3650	3680	-	-	3°/6°	-	-	-	-	-		
FULL FREE 2-STAGE MAST	D200	2000	1500	1750	2000	2500	3000	3500	4000	4500	5000	1525	1550	1580	1695	1748	6°/12°	530	545	460	460	476	
	D250	2500	1500	1750	2000	2500	3000	3500	4000	4500	5000	1775	1800	1830	1955	1998	6°/12°	780	795	710	710	726	
	D300	3000	1500	1750	2000	2500	3000	3500	4000	4500	5000	2025	2025	2080	2205	2248	6°/12°	1030	1050	960	960	976	
	D330	3300	1500	1750	2000	2500	3000	3500	4000	4500	5000	2175	2200	2230	2355	2398	6°/12°	1180	1195	1110	1110	1126	
	D350	3500	1500	1750	2000	2500	3000	3500	4000	4500	5000	2275	2300	2330	2455	2498	6°/12°	1280	1295	1210	1210	1226	
	D400	4000	1500	1650	2000	2500	3000	3200	4000	4500	5000	2575	2600	2630	2755	2798	6°/6°	1580	1595	1510	1510	1526	
	D430	4300	1400	1500	1900/*2000	2100/*2500	2850/*3000	2850/*3000	3100	-	-	2725	2750	2780	2955	-	6°/6°	1630	1745	1660	1660	-	
	D450	4500	1350	1450	1800/*1900	1800/*2400	2600/*3000	2600/*3000	3100/*3500	-	-	2825	2850	2880	3005	-	6°/6°	1730	1845	1760	1760	-	
	D500	5000	*1250	1000/*1400	1300/*1700	1300/*2200	2100/*2850	2100/*2850	2600/*3000	-	-	3125	3150	3180	3255	-	6°/6°	2030	2145	2010	2010	-	
	D550	5500	*1050	*1250	*1500	*1700	*2400	*2400	-	-	-	3375	3400	3430	-	-	3°/6°	2280	2395	2310	-	-	
D600	6000	*800	*1000	*1300	*1400	*2000	*2000	-	-	-	3625	3650	3680	-	-	3°/6°	2530	2645	2560	-	-		
FULL FREE 3-STAGE MAST	T400	4000	1400	1800	1900	2400	2900	3300	3600	4400	4900	1875	1900	1930	1940	2096	6°/6°	880	895	685	695	824	
	T430	4300	1300	1500	1850	2200	2700	3000	3200	4300	4700	1975	2000	2030	2040	2196	6°/6°	980	995	785	795	924	
	T450	4500	1250	1400/*1550	1700/*1800	1700/*2300	2450/*2800	3000/*3000	3200/*3600	3800	4600	2075	2100	2130	2185	2263	6°/6°	1080	1195	985	940	991	
	T470	4700	1200	1000/*1450	1700/*1800	1700/*2300	2450/*2800	3000/*3000	2700/*3600	3800	4600	2125	2150	2180	2252	2330	6°/6°	1130	1245	1035	1005	1058	
	T500	5000	*1250	900/*1350	1500/*1750	1500/*2250	2300/*2750	2400/*2850	2700/*3100	3300/*4100	4400/*4500	2225	2250	2280	2435	2430	6°/6°	1230	1345	1135	1105	1158	
	T550	5500	*1200	*1250	1200/*1700	1200/*2150	1700/*2650	1800/*2700	2200/*3100	2900/*3800	3300/*4300	2425	2450	2480	2518	2696	3°/6°	1530	1545	1335	1275	1424	
	T600	6000	*1050	*1000	800/*1600	800/*1800	1200/*2100	1300/*2200	1700/*2600	2200/*3500	2500/*4000	2625	2650	2680	2685	2863	3°/6°	1730	1745	1535	1375	1591	

Note: *---double front tires
Free lift (without backrest) 1.5t-1.8t +465mm; 2t-2.5t +435mm ; 3t +580mm; 4t-4.5t +400mm

STANDARD EQUIPMENT

- 1.Wide view mast

2.Class II (III) carriage

3.Load backrest

4.Standard fork

5.Pneumatic tires

6.Overhead guard

7.Standard seat

8.Drawbar pin

9.Air cleaner

10.2-spool control valve
- 11.Hydraulic filter

12.Oil filter

13.Halogen head lights

14.Rear combination lights

15.Rear view mirrors

16.Back-up lamp

17.Electric horn

18.Neutral safety switch (Tor-Con)

19.Deluxe rubber floor mat

20.Head guard canvas

21.Overhead air intake
- 22.Radiator reservoir

23.Tilt adjustable steering post

24.Turn signal lights

25.Lamp guard

26.Full hydrostatic power steering

27.Hour Meter

28.Water temperature meter

29.Fuel meter

30.Ignition key engine stop(c)

31.Hand grip

32.Operator tool kit

33.Back-up alarm

OPTION

- 1.Solid tire

2.Double front tire

3.No mark tire

4.Single lpg

5.Dual fuel(lpg/gasoline)

6.Alarm flash

7.Rear work light
- 8.Steel protection net

9.Widened fork holder

10.Supperhigh backrest

11.Lengthen fork

12.Sheath of fork

13.Windscreen (with wiper)

14.Cab
- 15.Condition heating

16.Dampened-shock chair

17.Safe belt

18.Anti-spark muffler

19.Vertical exhaust pipe

20.Dual air cleaner

21.Customer color

22.Three-way catalytic muffle

Engine Option

OverSeas Engine
Gasoline Engine
Local Engine

Brand	XINCHANG					JIANGLING	DACHAI	WEICHAI	WF	PERKINS	CUMMINS				
Model	485BPG	490BPG	495BPG	498BPG	498BT1	JE493G	CA498	R4105	WF491	1104D	B3.3				
Exhausted capacity	2.27L	2.54L	2.98L	3.168L	3.168L	2.77L	3.168L	4.1567L	2.237L	4.41L	3.3L				
Specified power	30KW/2600rpm	37KW/2650rpm	42KW/2650rpm	45KW/2500rpm	36.8KW/3168rpm	39KW/2500rpm	45KW/2500rpm	59KW/2300rpm	34KW/2500rpm	56KW/2200rpm	45KW/2200rpm				
Max.torque	≥131N.m/1700rpm	≥148N.m/1700-1900rpm	≥174N.m/1800-2000rpm	≥193N.m/1600-1800rpm	≥186N.m/1600-1800rpm	165N.m/1800rpm	190N.m/1800rpm	280N.m/1600-1800rpm	142N.m/1800rpm	765N.m/1700rpm	142N.m/1600rpm				
Brand	ISUZU			KUBOTA			YANMAR		MITSUBISHI			NISSAN		GM	
Model	C240	4JG2	6BG1	V2403	V3300	V3600	4TNE92	4TNE98	S4S	S6S	4G64	K21	K25	TB42G	GM4.3
Exhausted capacity	2.369L	3.059L	6.494L	2.434L	3.318L	3.620L	2.65 9L	3.318L	3.331L	4.9961L	2.35L	1.982L	2.472L	4.169L	4.3L
Specified power	34.3KW/2500rpm	44.8KW/2450rpm	82.4KW/2000rpm	42.6KW/2600rpm	54.9KW/2600rpm	49.8KW/2600rpm	32.8KW/2450rpm	42.1KW/2300rpm	38KW/2300rpm	52KW/2300rpm	37KW/2500rpm	32.4KW/2300rpm	42.7KW/2400rpm	66KW/2300rpm	63KW/2000rpm
Max.torque	137.7N.m/1800rpm	486N.m/1700rpm	410N.m/1500rpm	160N.m/1700rpm	221N.m/1600rpm	221N.m/1600rpm	135.4-149.4N.m/1600rpm	177.6-196.3 N.m/1700rpm	176N.m/1800rpm	248N.m/1700rpm	161N.m/1600rpm	145N.m/1600rpm	179N.m/1600rpm	310N.m/1800rpm	298N.m/1200rpm

Please read the operating manual closely before you drive the forklift, in order to make sure you operating feeler forklift conveniently and freely. Feeler forklifr continually renew and improve the products, thus maybe some function and model is different from the catalogues.