

LARGE IC CUSHION

BOX CAR SPECIAL



THINK INSIDE THE BOX

- ▶ 8000 - 12000 lb. Capacity
- ▶ Mast Height Under 90 in.
- ▶ Increased Maneuverability With Shortened Counterweight
- ▶ Force-Cooled Wet Disc Brakes



50-8FGC35U-55U-BCS

CLASS
4

INTERNAL COMBUSTION ENGINE CUSHION TIRE

ToyotaForklift.com

BIG ON SMALL SPACE PRODUCTIVITY

THE TOYOTA BOX CAR SPECIAL FORKLIFT. A forklift with high lifting capacity that can comfortably squeeze into railcars and other tight spaces? It's a major small miracle. One made possible by a specially designed counterweight that frees the Box Car Special to work in confined areas without sacrificing lifting power. It's a design that opens up new opportunities in racking, space planning, and shipping. So you can think big and small at the same time.

BOX CAR SPECIAL ADVANTAGES

- ▶ **SPECIALLY DESIGNED COUNTERWEIGHT**
for superior tight space navigability
- ▶ **LOAD-SENSING POWER STEERING** improves efficiency by making sure the hydraulic pump only runs when it is needed
- ▶ **ACTIVE MAST CONTROL** responds automatically to enhance stability of loads handled at high lift heights
- ▶ **SYSTEM OF ACTIVE STABILITY™ (SAS)**
automatically detects potentially unsafe conditions and engages additional safety features for increased operator protection and reduced product and forklift damage
- ▶ **FORCE-COOLED WET DISC BRAKES**
reduce maintenance cost and downtime with an expected lifespan of 10 years/20,000 hours*
- ▶ **STANDARD LED HEADLIGHTS** lower operational costs due to reduced amp draw and no filament

*Actual results may vary by application and usage.





- ▶ **STANDARD LCD MULTI-FUNCTION DISPLAY** puts customizable performance, operational data, and QR code diagnostics right at your fingertips
— — — — —
- ▶ **PREMIUM COMFORT SEAT** utilizes high-quality materials and a multitude of adjustable settings to deliver a smooth ride, shift after shift
— — — — —
- ▶ **IMPROVED ERGONOMICS** including load-sensing power steering, 11.8 inch steering wheel, dash-integrated amenity tray, and oversized cup holder
— — — — —
- ▶ **DURABLE BOLT-ON OVERHEAD GUARD** provides maximum operator protection with improved entry/exit and load visibility
— — — — —
- ▶ **ENGINE PROTECTION SYSTEM** automatically reduces power if coolant temperature rises to potentially damaging levels
— — — — —
- ▶ **FULLY SEALED AIR INTAKE** is mounted up high to limit low-level dust and debris from entering engine
— — — — —

CAPACITY
8000 - 12000 LBS.

WHEELBASE
61.8 - 70.5 IN.

LOAD CENTER
24 IN.

INDUSTRIES



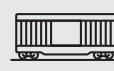
General
Manufacturing



General
Warehousing



Intermodal/Port



Rail Yard



Retail

STANDARD FEATURES

DURABILITY

- Control Area Network (CAN-bus) communication
- Fully-stamped steel side panels
- Full-floating front axle
- Limited free-lift 2-stage mast (V)¹
- 3-stage limited free lift mast (FSV)²
- Moisture-resistant electric connectors
- High cooling capacity radiator
- Tilt cylinder boots
- Low-maintenance battery
- Large-capacity engine cooling fan
- 8" cyclone air cleaner
- Plate-iron front fenders
- Anti-restart ignition key switch
- Stamped steel engine hood
- Radiator screen
- External hydraulic oil cooler
- Force-cooled wet disc brakes
- Fully oil charged lift cylinders (FV, FSV Mast Only)

SUPPORT

- System of Active Stability™ (SAS)
- Operator Presence Sensing System (OPSS)
- Bolt-on overhead guard
- Key lowering interlock
- Electric horn
- Neutral start safety switch
- LED headlights
- Orange forks
- Asbestos-free components
- Key off/headlight off system
- Speed control

PERFORMANCE

- EPA/CARB-certified engine
- Toyota 3.7 liter, 4-cylinder, OHV gasoline engine (1FS)
- Distributorless ignition system
- UL-approved model type "LP"
- Full-floating powertrain
- Alternator with built-in regulator (70A)
- Automatic transmission with oil cooler
- LCD Multi-Function Display - includes:
 - Data log, fuel, and operation information w/ QR Code output
 - Master warning, wheel, direction, and mast tilt indicators
 - Various hour meters
 - Engine coolant temperature gauge
 - Fuel gauge (gasoline only)
- Check engine light
- Engine oil pressure warning light
- OPSS activation light
- Parking brake indicator
- SAS/OPSS warning light
- Electric shift control
- Treaded cushion tires (front/rear)
- Wide tread

ERGONOMICS

- Dash-mounted instrument display
- 11.8"-dia., 2-spoke steering wheel
- Load-sensing power steering
- Cowl-mounted hydraulic control levers with rubber boot covers
- 12"-long dual operator assist grips
- Low, wide entry steps
- Vinyl 4-way adjustable full-suspension seat
- Oversized cup holder
- Non-cinching seatbelt
- One-way automatic fork leveling
- Double-action parking brake (hand)
- Integrated headlight & turn signal lever

SERVICEABILITY

- Easy access no tools required floorboard
- Engine hood assist damper with lock device
- Air cleaner discharge valve
- Easy-lift engine hood with wide 75° opening
- Easy access to common service items such as filters & dipsticks
- Engine protection system

¹ Standard on 8FGC35U-BCS and 8FGC45U-BCS models only.
² Standard on 8FGC55U-BCS model only.

OPTIONAL EQUIPMENT

- Various fork bar (carriage) widths
- Fully-tapered & polished forks
- High-load backrest
- Hydraulic accumulator
- Hydraulic quick disconnects (dual)
- Hydraulic valve for clamping attachments
- Less backrest
- Less forks
- Side hosing termination
- Tapered forks
- 3-way valve (with 3rd function hosing)
- 4-way valve (with 3rd & 4th function hosing or no hosing)
- 5-way valve (with 3rd, 4th & 5th function hosing)
- Cascade component guard (hang-on sideshifter)
- Clamp release interlock system
- Box fin radiator
- Cyclone air cleaner (dual element)
- High-capacity alternator
- High-capacity cooling package
- Keyless ignition switch
- Low LPG fuel warning indicator
- LPG bracket (swing-down type)
- LPG regulator drain valve
- High-capacity battery
- Pre-cleaner
- Sealed alternator
- Sealed starter
- Block heater
- Engine hood ventilation
- Polycarbonate OHG cover
- Rearview mirrors (left & right side)
- Special paint
- LED front combination lights
- LED rear combination lights
- LED rear work light
- LED reverse activated rear work light
- LED strobe lights
- Auto lights-off (wired to oil pressure switch)
- Operator compartment light
- Wiring harness for rear overhead guard options
- Key-activated blue light
- Reverse-activated blue light
- Directional lever on column
- EZ pedal (foot directional control)
- Intelli-Shift
- Mini-lever controls with ErgoShift
- Single pedal (combination brake/inching)
- Steering wheel with knob
- Synchronized steering
- Cloth 4-way adjustable full-suspension seat
- Swivel seat
- Orange seatbelt
- Seatbelt interlock
- 12-Volt power supply
- Adjustable volume back up alarm (smart alarm)
- Fire extinguisher
- OK monitor
- Operator cooling fan
- Pencil/tape holder (mounted on OHG leg)
- Pre-delivery inspection
- Rear pillar assist grip with horn button
- Wide tread tires
- Treaded, non-marking tires (front & rear)
- Smooth back tires (front & rear)
- Smooth, non-marking tires (front & rear)
- SEEnS

Please contact your local, authorized Toyota Dealer for a complete list of available options.



TRUCK SPECIFICATIONS

TRUCK SPECIFICATIONS				MODEL NUMBERS					
GENERAL DATA				50-8FGC35U-BCS		50-8FGC45U-BCS		50-8FGC55U-BCS	
Load Capacity		lb (kg)		8000 (3500)		10000 (4500)		12000 (5500)	
Load Center		in (mm)		24 (600)		24 (600)		24 (600)	
Power Type				LPG		LPG		LPG	
Operator Position				Seated Rider		Seated Rider		Seated Rider	
Tire Type		Front / Rear		Cushion / Cushion		Cushion / Cushion		Cushion / Cushion	
Wheels (x = driven)		Front / Rear		2x / 2		2x / 2		2x / 2	
EXTERIOR DIMENSIONS				50-8FGC35U-BCS		50-8FGC45U-BCS		50-8FGC55U-BCS	
Maximum Fork Height (top of forks)		in (mm)		159.5 (4050)		159.5 (4050)		159.5 (4050)	
Free-Lift (top of forks)		in (mm)		33.1 (840)		33.1 (840)		33.1 (840)	
Fork Size (T x W x L)		in (mm)		2 x 6 x 42 (50 x 150 x 1070)		2 x 6 x 42 (50 x 150 x 1070)		2.4 x 6 x 48 (60 x 150 x 1220)	
Fork Spread Max. / Min. (outer edge to edge)		in (mm)		45.7 / 11.8 (1160 / 300)		45.7 / 11.8 (1160 / 300)		46.1 / 11.8 (1170 / 300)	
Tilt Range (forward / backward)		deg		5 / 5		5 / 5		5 / 5	
Length to Fork Face		in (mm)		95.5 (2425)		100.2 (2545)		106.3 (2700)	
Overall Width		in (mm)		55.9 (1420)		55.9 (1420)		55.9 (1420)	
Mast Lowered Height		in (mm)		81.1 (2060)		81.1 (2060)		81.1 (2060)	
Mast Extended Height (top of load backrest)		in (mm)		207.5 (5270)		207.5 (5270)		207.5 (5270)	
Overhead Guard Height		in (mm)		83.5 (2120)		83.5 (2120)		83.5 (2120)	
Turning Radius (outside)		in (mm)		82 (2090)		88 (2230)		93.5 (2380)	
Load Distance¹		in (mm)		17.7 (450)		18.1 (460)		18.5 (470)	
Basic Right-Angle Stacking Aisle Width²		in (mm)		100.5 (2560)		106.5 (2710)		112 (2850)	
PERFORMANCE DATA				50-8FGC35U-BCS		50-8FGC45U-BCS		50-8FGC55U-BCS	
Speeds⁵	Maximum Travel (forward / reverse)	Full Load	mph (km/h)	11.8 (19.0) / 11.8 (19.0)		11.8 (19.0) / 11.8 (19.0)		13.0 (21.0) / 13.0 (21.0)	
		No Load	mph (km/h)	11.8 (19.0) / 11.8 (19.0)		11.8 (19.0) / 11.8 (19.0)		13.0 (21.0) / 13.0 (21.0)	
	Lifting	Full Load	fpm (mm/sec)	100 (510)		98 (500)		91 (460)	
		No Load	fpm (mm/sec)	108 (550)		100 (510)		94 (480)	
	Lowering	Full Load	fpm (mm/sec)	104 (530)		106 (540)		106 (540)	
		No Load	fpm (mm/sec)	94 (480)		96 (490)		96 (490)	
Drawbar Pull	Maximum	Full Load	lb (kg)	9900 (4500)		9900 (4500)		9900 (4500)	
		No Load	lb (kg)	2780 (1260)		2670 (1210)		3390 (1540)	
Gradeability³	1 mph (1.5 km/h)	Full Load	%	37		30		25	
		Full Load	%	47		37		34	
	Maximum	Full Load	%	19		16		19	
		No Load	%						
TRUCK WEIGHTS				50-8FGC35U-BCS		50-8FGC45U-BCS		50-8FGC55U-BCS	
Total Weight		lb (kg)		13910 (6320)		15910 (7220)		16600 (7530)	
Weight Distribution	Full Load (front / rear)		lb (kg)	18930 (8590) / 2700 (1230)		22470 (10190) / 3370 (1530)		25530 (11580) / 3200 (1450)	
	No Load (front / rear)		lb (kg)	6050 (2750) / 7860 (3570)		5860 (2660) / 10050 (4560)		6150 (2790) / 10450 (4740)	
TIRES				50-8FGC35U-BCS		50-8FGC45U-BCS		50-8FGC55U-BCS	
Tires	Number (front / rear)			2 / 2		2 / 2		2 / 2	
	Size	Front		22 x 9 x 16		22 x 12 x 16		22 x 12 x 16	
		Rear		18 x 6 x 12-1/8		18 x 7 x 12-1/8		18 x 8 x 12-1/8	
Wheelbase		in (mm)		61.8 (1570)		61.8 (1570)		70.5 (1790)	
Tread Width (front / rear)		in (mm)		40.9 (1040) / 41.4 (1050)		43.9 (1115) / 42.4 (1080)		43.9 (1115) / 43.5 (1105)	
Underclearance (full load)	Minimum with Load		in (mm)	3.3 (85)		3.3 (85)		3.3 (85)	
	Center of Wheelbase		in (mm)	5.7 (145)		5.7 (145)		5.7 (145)	
Brake	Service (foot) / Parking			Hydraulic <wet> / Hand		Hydraulic <wet> / Hand		Hydraulic <wet> / Hand	
POWER SYSTEM				50-8FGC35U-BCS		50-8FGC45U-BCS		50-8FGC55U-BCS	
Battery (5-hour rating)		V / Ah		12 / 35		12 / 35		12 / 35	
Internal Combustion Engine⁵	Make / Model			IFS-US		IFS-US		IFS-US	
	Rated Horsepower @ rpm	SAE HP		87 @ 2330		87 @ 2330		88 @ 2530	
		(kW)		(65 @ 2330)		(65 @ 2330)		(66 @ 2530)	
	Rated Torque @ rpm	SAE ft-lb		212 @ 1600		212 @ 1600		212 @ 1600	
		(N-m)		(288 @ 1600)		(288 @ 1600)		(288 @ 1600)	
	Number of Cylinders			4		4		4	
	Piston Displacement		cu in (cc)	224 (3685)		224 (3685)		224 (3685)	
Fuel Tank Capacity		US gal (liter)	—		—		—		
Transmission	Type			Automatic		Automatic		Automatic	
	Speeds (forward / reverse)			1 / 1		1 / 1		1 / 1	
Auxiliary Hydraulic Function Specifications (for attachments)⁴	Max. Operating Pressure		psi (kg/cm2)	2630 (185)		2630 (185)		2630 (185)	
	Max. Flow Rate		gpm (lpm)	33.8 (128)		33.8 (128)		33.8 (128)	

1 At centerline of front axle to front face of forks.
2 Add load length & clearance.
3 Computed values. Performance of LPG fuel system may be less than performance of standard model shown.
4 Values taken at Hydraulic Control Valve. Does not take in to consideration losses through mast plumbing (hosing, fittings, QDs, etc.).
5 Estimated based on preliminary performance test data

MAST SPECIFICATIONS

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST	FWD	BWD	STANDARD TREAD	WIDE TREAD
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
50-8FGC35U-BCS										
Wide Visible (V)	120 (3050)	81.1 (2060)	149.6 (3800)	168.1 (4270)	4.3 (110)	4.3 (110)	5	6	8000 (3500)	8000 (3500)
	132 (3350)	88.2 (2240)	161.4 (4100)	179.9 (4570)	4.3 (110)	4.3 (110)	5	6	8000 (3500)	8000 (3500)
	147.5 (3750)	96.1 (2440)	177.2 (4500)	195.7 (4970)	4.3 (110)	4.3 (110)	5	6	8000 (3500)	8000 (3500)
Full Free-Lift 2-Stage (FV)	120 (3050)	81.1 (2060)	150.8 (3830)	168.1 (4270)	50.4 (1280)	33.1 (840)	5	6	8000 (3500)	8000 (3500)
	132 (3350)	88.2 (2240)	162.6 (4130)	179.9 (4570)	57.5 (1460)	40.2 (1020)	5	6	8000 (3500)	8000 (3500)
Full Free-Lift 3-Stage (FSV)	159.5 (4050)	81.1 (2060)	190.9 (4850)	207.5 (5270)	49.6 (1260)	33.1 (840)	5	5	8000 (3500)	8000 (3500)
	171.5 (4350)	83.1 (2110)	202.8 (5150)	219.3 (5570)	51.6 (1310)	35.0 (890)	5	5	7870 (3500)	7870 (3500)
	187 (4750)	88.2 (2240)	218.5 (5550)	235.0 (5970)	56.7 (1440)	40.2 (1020)	5	5	7700 (3500)	7700 (3500)
	199 (5050)	92.1 (2340)	230.3 (5850)	246.9 (6270)	60.6 (1540)	44.1 (1120)	5	5	7550 (3450)	7550 (3450)
	218.5 (5550)	98.0 (2490)	250.0 (6350)	266.5 (6770)	66.5 (1690)	50.0 (1270)	5	5	7340 (3350)	7340 (3350)
	238 (6050)	105.9 (2690)	269.7 (6850)	286.2 (7270)	74.4 (1890)	57.9 (1470)	5	5	N/A	6500 (2950)

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST	FWD	BWD	STANDARD TREAD	WIDE TREAD
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
50-8FGC45U-BCS										
Wide Visible (V)	120 (3050)	83.1 (2110)	152.0 (3860)	168.1 (4270)	4.3 (110)	4.3 (110)	5	6	10000 (4500)	10000 (4500)
	132 (3350)	92.1 (2340)	163.8 (4160)	179.9 (4570)	4.3 (110)	4.3 (110)	5	6	10000 (4500)	10000 (4500)
	147.5 (3750)	100.0 (2540)	179.5 (4560)	195.7 (4970)	4.3 (110)	4.3 (110)	5	6	10000 (4500)	10000 (4500)
Full Free-Lift 2-Stage (FV)	120 (3050)	83.1 (2110)	152.2 (3865)	168.1 (4270)	51.0 (1295)	35.0 (890)	5	6	10000 (4500)	10000 (4500)
	132 (3350)	92.1 (2340)	164.0 (4165)	179.9 (4570)	60.0 (1525)	44.1 (1120)	5	6	10000 (4500)	10000 (4500)
Full Free-Lift 3-Stage (FSV)	159.5 (4050)	81.1 (2060)	191.5 (4865)	207.5 (5270)	49.0 (1245)	33.1 (840)	5	5	10000 (4500)	10000 (4500)
	171.5 (4350)	85.6 (2175)	203.4 (5165)	219.3 (5570)	53.5 (1360)	37.6 (955)	5	5	10000 (4500)	10000 (4500)
	187 (4750)	92.1 (2340)	219.1 (5565)	235.0 (5970)	60.0 (1525)	44.1 (1120)	5	5	10000 (4500)	10000 (4500)
	199 (5050)	98.0 (2490)	230.9 (5865)	246.9 (6270)	65.9 (1675)	50.0 (1270)	5	5	9950 (4400)	9950 (4400)
	218.5 (5550)	105.9 (2690)	250.6 (6365)	266.5 (6770)	73.8 (1875)	57.9 (1470)	5	5	9600 (4350)	9600 (4350)
	238 (6050)	115.8 (2940)	270.3 (6865)	286.2 (7270)	83.7 (2125)	67.7 (1720)	5	5	8800 (3990)	8800 (3990)

MAST TYPE	MAXIMUM FORK HEIGHT (TOP OF FORKS)	OVERALL HEIGHT			FREE-LIFT		TILT RANGE		LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER	
		LOWERED	EXTENDED		WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST	FWD	BWD	STANDARD TREAD	WIDE TREAD
			WITHOUT LOAD BACKREST	WITH STANDARD LOAD BACKREST						
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lb (kg)	lb (kg)
50-8FGC55U-BCS										
Wide Visible (V)	120.5 (3060)	86.6 (2200)	152.8 (3880)	174.6 (4435)	4.7 (120)	4.7 (120)	5	6	12000 (5500)	12000 (5500)
	132.5 (3360)	92.5 (2350)	164.6 (4180)	186.4 (4735)	4.7 (120)	4.7 (120)	5	6	12000 (5500)	12000 (5500)
	148 (3760)	102.4 (2600)	180.3 (4580)	202.2 (5135)	4.7 (120)	4.7 (120)	5	6	12000 (5500)	12000 (5500)
Full Free-Lift 3-Stage (FSV)	160 (4060)	81.1 (2060)	191.9 (4875)	214.0 (5435)	45.7 (1160)	27.2 (690)	5	6	12000 (5500)	12000 (5500)
	171.5 (4360)	85.6 (2175)	203.7 (5175)	225.8 (5735)	50.2 (1275)	31.7 (805)	5	6	12000 (5500)	12000 (5500)
	187.5 (4760)	92.1 (2340)	219.4 (5573)	241.5 (6135)	56.7 (1440)	38.2 (970)	5	6	11800 (5350)	11800 (5350)
	199 (5060)	98.0 (2490)	231.3 (5875)	253.4 (6435)	62.6 (1590)	44.1 (1120)	5	6	11600 (5260)	11600 (5260)
	211 (5360)	99.6 (2530)	243.1 (6175)	265.2 (6735)	64.2 (1630)	45.7 (1160)	5	6	11250 (5100)	11250 (5100)
	219 (5560)	102.4 (2600)	251.0 (6375)	273.0 (6935)	66.9 (1700)	48.4 (1230)	5	6	11250 (5100)	11250 (5100)
	238.5 (6060)	115.8 (2940)	270.7 (6875)	292.7 (7435)	80.3 (2040)	61.8 (1570)	5	6	10900 (4940)	10900 (4940)



"I'M HERE TO MAKE SURE YOUR FORKLIFTS DON'T TAKE VACATION DAYS."

Butch - 360 Technician, ProLift, Cincinnati, Ohio



HELP IS ALWAYS HERE WITH TOYOTA 360 SUPPORT.

The industry's best and most comprehensive dealer network quickly delivers Toyota Certified Technicians to your work site. These specially trained technicians can also help assess your warehouse and facility needs to recommend the right equipment for the job. And with the largest fleet of material handling equipment, Toyota 360 keeps your business running at full speed.

ToyotaForklift.com/360-Support



YOUR BUSINESS IS RIDING ON IT.

Some product features described herein are optional. Please consult your dealer for specifications. Details of specifications and equipment are based on information available at time of printing and may change without notice. Photos may not reflect physical trucks.



BOXCARSPECIALCB

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