



Internal Combustion Counterbalance Forklift HT40CT - HT55CT

8,000 - 12,000 lb. Capacity | 8963 Series

- Heavy duty one-piece frame helps protect from impact damage and extends the operating life.
- No-tool access to the engine creates an easy maintenance experience.
- Fully-adjustable suspension seat and tilt steering column supports operator comfort on the job.

STANDARD & OPTIONAL EQUIPMENT

Model/Equipment		HT40CT - HT55CT
Drive system	PSI 4X 4.3L V6 engine	●
	EPA/CARB emissions compliance	●
	Automatic engine protection system	●
	Two-speed powershift transmission	●
	Travel speed reduction	○
	Power-assisted disc brakes	●
	High air intake with heavy duty air cleaner	●
	High-mounted air pre-cleaner	○
	Additional protection air filter cartridge	○
	UL Type-LP construction	●
Operator assistance	Fixed-mount LPG tank bracket	●
	Swing-down LPG tank bracket	○
	Low-fuel warning light indication	●
	Power-assisted steering system	●
	Steering wheel spinner knob	○
	Entry grip handle	●
	Rear handle with horn button	●
	Dual, halogen front worklights	●
	Rear worklights	○
	LED stop/tail/reverse lighting	○
	LED turn signals, front	○
	Dual, external rear view mirrors	○
	Additional storage tray	○
	Seat switch with traction interrupt function	●
Load handling	Three-pedal controls (inching / brake / accelerator)	●
	Directional control lever on steering column	●
	Directional control switch on accelerator pedal	○
	3-function main hydraulic control valve	●
	4-function main hydraulic control valve	○
	Cowl-mounted mast control levers	●
	Clamp-release interlock	○
	Auxiliary hose reeving high-termination kit	○
	Quick-disconnect hydraulic fittings	○
	Pressure reduction valve	○
	Short counterweight "Boxcar" version chassis - HT40CT	○

● Standard equipment ○ Optional equipment

ANSI: Standard truck meets all applicable mandatory requirements of ANSI/ISO B561 standards for powered industrial trucks.
 NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance depicted represents nominal values obtained under typical operating conditions. Metric dimensions are in millimeters unless otherwise specified. All metric dimensions are not direct equivalents due to rounding data. The descriptions and specifications included on this data sheet were in effect at the time of printing. ICION North America Corporation reserves the right to make improvements and changes in specification or design without notice and without incurring obligation. Please check with your authorized dealer for information on possible updates or revisions.

STANDARD & OPTIONAL EQUIPMENT

Model / Equipment		HT40CT - HT55CT
Workplace	Standard 87.2" overhead guard	●
	Low-profile 82.5" overhead guard	○
	Full-suspension drivers seat with standard vinyl covering	●
	Full-suspension drivers seat with comfortable fabric covering	○
	Limited-suspension seat for low-profile overhead guard	○
	Vibration-isolated operator cell	●
	High-visibility orange seat belt	●
	Tilt-adjustable steering column	●
	Audible back-up alarm	○
Mast	Flashing strobe light	○
	Standard and triplex masts	○
	Auxiliary function hydraulic hose reeving	○
Carriage	Hydraulic accumulator for cushioned load protection	○
	41" ITA Class III, 6-roller fork carriage - HT40CT	●
	49" ITA Class III, 6-roller fork carriage - HT50CT, HT55CT	●
	Additional fork carriage widths	○
	Hang-on sideshifting fork carriage	○
Tires	Load backrest, 48"	○
	Black rubber cushion tires	●
	Non-marking rubber cushion tires	○
Service & Warranty	Treaded, black rubber cushion tires - HT50CT, HT55CT	○
	Tool-free floorboard for easy access	●
	Standard warranty, 1-year / unlimited hours	●
	Powertrain warranty, 2-year / 4,000-hours	●
Warranty extension, 1-year / 2,000-hours (additionally)	○	

● Standard equipment

○ Optional equipment

ANSI Standard truck meets all applicable mandatory requirements of ANSI/ISO B561 standards for powered industrial trucks. NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance depicted represents nominal values obtained under typical operating conditions. Metric dimensions are in millimeters unless otherwise specified. All metric dimensions are not direct equivalents due to rounding data. The descriptions and specifications included on this data sheet were in effect at the time of printing. KION North America Corporation reserves the right to make improvements and changes in specification or design without incurring obligation. Please check with your authorized dealer for information on possible updates or revisions.

TECHNICAL DATA

					LINDE		LINDE				
					HT40CT	HT50CT					
Characteristics	1.1	Manufacturer									
	1.2	Manufacturer type designation									
	1.3	Drive system			LPG		LPG				
	1.4	Operator type			Rider seated		Rider seated				
	1.5	Rated capacity	<i>Q</i>	<i>lb</i>	<i>kg</i>	8,000	4,000	10,000	5,000		
	1.6	Load center distance	<i>c</i>	<i>in</i>	<i>mm</i>	24	600	24	600		
	1.8	Load distance, center of drive axle to fork ⁽¹⁾	<i>x</i>	<i>in</i>	<i>mm</i>	18.1	460	18.6	472		
	1.9	Wheelbase	<i>y</i>	<i>in</i>	<i>mm</i>	61.8	1,570	70.5	1,790		
	Weights	2.1	Service weight			<i>lb</i>	<i>kg</i>	12,921	5,861	14,852	6,737
2.2		Axle weights, loaded front/rear			<i>lb</i>	<i>kg</i>	18,429 / 2,492	8,359 / 1,130	22,431 / 2,421	10,175 / 1,098	
2.3		Axle weights, unloaded front/rear			<i>lb</i>	<i>kg</i>	5,084 / 7,837	2,306 / 3,555	6,504 / 8,348	2,950 / 3,787	
Wheels	3.1	Tire type			Cushion		Cushion	Cushion	Cushion		
	3.2	Tire size, front			22 x 9 x 16		22 x 9 x 16	22 x 12x 16	22 x 12x 16		
	3.3	Tire size, rear			18 x 6 x 12½		18 x 6 x 12½	22 x 7 x 16	22 x 7 x 16		
	3.5	Wheels, number front/rear (× = driven wheels)			2x / 2		2x / 2	2x / 2	2x / 2		
	3.6	Track width, front	<i>b₁₀</i>	<i>in</i>	<i>mm</i>	41.8	1,062	43.8	1,113		
	3.7	Track width, rear	<i>b₁₁</i>	<i>in</i>	<i>mm</i>	44.0	1,118	43.0	1,098		
	Dimensions	4.1	Tilt range, forward/backward			α/β (°)	α/β (°)	5 / 6	5 / 6	5 / 6	5 / 6
4.2		Height of mast, lowered			<i>h₁</i>	<i>in</i>	<i>mm</i>	See table	See table	See table	See table
4.3		Free lift			<i>h₂</i>	<i>in</i>	<i>mm</i>	See table	See table	See table	See table
4.4		Maximum fork height			<i>H</i>	<i>in</i>	<i>mm</i>	See table	See table	See table	See table
4.7		Overhead guard height			<i>h₆</i>	<i>in</i>	<i>mm</i>	87.2	2,215	87.2	2,215
4.8		Seat height			<i>h₇</i>	<i>in</i>	<i>mm</i>	45.3	1,150	45.3	1,150
4.12		Tow coupling height			<i>h₁₀</i>	<i>in</i>	<i>mm</i>	13.3	337	13.3	337
4.19		Overall length			<i>l₁</i>	<i>in</i>	<i>mm</i>	138.0	3,505	153.2	3,891
4.20		Length to face of forks ⁽¹⁾			<i>l₂</i>	<i>in</i>	<i>mm</i>	96.8	2,459	106.0	2,692
4.21		Overall width			<i>b₁ / b₂</i>	<i>in</i>	<i>mm</i>	50.8	1,290	54.8	1,392
4.22		Fork dimensions			<i>s / e / l</i>	<i>in</i>	<i>mm</i>	2 x 5 x 42	50 x 127 x 1067	2 x 6 x 48	50 x 152 x 1220
4.23		Fork carriage, ITA Class/Type					Class III / Hook-type				
4.24		Fork carriage width			<i>b₃</i>	<i>in</i>	<i>mm</i>	41.0	1,041	49.0	1,245
4.31		Ground clearance, loaded, below mast			<i>m₁</i>	<i>in</i>	<i>mm</i>	3.8	96	3.8	96
4.32		Ground clearance, center of wheelbase			<i>m₂</i>	<i>in</i>	<i>mm</i>	6.1	155	6.1	155
4.34		Aisle width for pallets 40" x 48" ⁽²⁾			<i>Ast</i>	<i>in</i>	<i>mm</i>	161.5	4,099	170.8	4,335
4.34a		Minimum right-angle stacking width ⁽¹⁾					<i>in</i>	<i>mm</i>	107.5	2,730	116.8
4.35	Turning radius			<i>W₀</i>	<i>in</i>	<i>mm</i>	89.4	2,270	98.2	2,494	
4.36	Inside turning radius			<i>b₁₃</i>	<i>in</i>	<i>mm</i>	13.2	335	12.5	318	
Performance	5.1	Travel speed, loaded/unloaded			mph	km/h	12.2 / 12.5	19.6 / 20.1	12.1 / 12.4	19.5 / 20.0	
	5.2	Lift speed, loaded/unloaded			fpm	m/s	97 / 108	0.49 / 0.55	90 / 105	0.45 / 0.53	
	5.3	Lowering speed, loaded/unloaded			fpm	m/s	83 / 80	0.42 / 0.41	80 / 80	0.41 / 0.41	
	5.5	Tractive force, loaded/unloaded			lbf	N	5,250 / 2,380	23,350 / 10,580	5,250 / 2,380	22,240 / 13,900	
	5.7	Gradeability, loaded/unloaded			%	%	27 / 15	27 / 15	20 / 18	20 / 18	
	5.10	Service brake					Power-assist disc	Power-assist disc	Power-assist disc	Power-assist disc	
Drive	7.1	Engine manufacturer / type					PSI 4X 4.3L T4				
	7.2	Engine power			hp	kW	110	82	110	82	
	7.3	Rated speed			rpm	rpm	2,400	2,400	2,400	2,400	
	7.4	Number of cylinders / displacement			(-)/(in³)	(-)/(L)	6 / 262	6 / 4.3	6 / 262	6 / 4.3	
Other	10.1	Operating pressure for attachments			psi	bar	2,300	158	2,300	158	
	10.7	Sound pressure level (driver's seat)			dB (A)	dB (A)	81	81	81	81	

(1) Dimensions with triplex mast. Standard mast reduces by 0.8" (21mm)

(2) Includes 6" (150mm) operating clearance

TECHNICAL DATA

Characteristics	1.1	Manufacturer	LINDE				
	1.2	Manufacturer type designation	HT55CT				
	1.3	Drive system	LPG				
	1.4	Operator type	Rider seated				
	1.5	Rated capacity	<i>Q</i>	<i>lb</i>	<i>kg</i>	12,000	5,500
	1.6	Load center distance	<i>c</i>	<i>in</i>	<i>mm</i>	24	600
	1.8	Load distance, center of drive axle to fork ⁽¹⁾	<i>x</i>	<i>in</i>	<i>mm</i>	19.2	488
	1.9	Wheelbase	<i>y</i>	<i>in</i>	<i>mm</i>	70.5	1,790
	Weights	2.1	Service weight		<i>lb</i>	<i>kg</i>	16,881
2.2		Axle weights, loaded front/rear		<i>lb</i>	<i>kg</i>	25,942 / 2,939	11,767 / 1,333
2.3		Axle weights, unloaded front/rear		<i>lb</i>	<i>kg</i>	6,720 / 10,161	3,048 / 4,609
Wheels	3.1	Tire type				Cushion	Cushion
	3.2	Tire size, front				22 x 12 x 16	22 x 12 x 16
	3.3	Tire size, rear				22 x 7 x 16	22 x 7 x 16
	3.5	Wheels, number front/rear (× = driven wheels)				2x / 2	2x / 2
	3.6	Track width, front	<i>b₁₀</i>	<i>in</i>	<i>mm</i>	43.8	1,113
	3.7	Track width, rear	<i>b₁₁</i>	<i>in</i>	<i>mm</i>	43.0	1,098
Dimensions	4.1	Tilt range, forward/backward		α/β (°)	α/β (°)	5 / 6	5 / 6
	4.2	Height of mast, lowered	<i>h₁</i>	<i>in</i>	<i>mm</i>	See table	See table
	4.3	Free lift	<i>h₂</i>	<i>in</i>	<i>mm</i>	See table	See table
	4.4	Maximum fork height	<i>H</i>	<i>in</i>	<i>mm</i>	See table	See table
	4.7	Overhead guard height	<i>h₆</i>	<i>in</i>	<i>mm</i>	87.2	2,215
	4.8	Seat height	<i>h₇</i>	<i>in</i>	<i>mm</i>	45.3	1,150
	4.12	Tow coupling height	<i>h₁₀</i>	<i>in</i>	<i>mm</i>	13.3	337
	4.19	Overall length	<i>l₁</i>	<i>in</i>	<i>mm</i>	155.9	3,960
	4.20	Length to face of forks ⁽¹⁾	<i>l₂</i>	<i>in</i>	<i>mm</i>	108.7	2,761
	4.21	Overall width	<i>b₁ / b₂</i>	<i>in</i>	<i>mm</i>	54.8	1,292
	4.22	Fork dimensions	<i>s / e / l</i>	<i>in</i>	<i>mm</i>	2.3 x 6 x 48	57 x 152 x 1220
	4.23	Fork carriage, ITA Class/Type				Class IV / Hook-type	Class IV / Hook-type
	4.24	Fork carriage width	<i>b₃</i>	<i>in</i>	<i>mm</i>	49.0	1,245
	4.31	Ground clearance, loaded, below mast	<i>m₁</i>	<i>in</i>	<i>mm</i>	3.8	96
	4.32	Ground clearance, center of wheelbase	<i>m₂</i>	<i>in</i>	<i>mm</i>	6.1	155
	4.34	Aisle width for pallets 40" x 48" ⁽²⁾	<i>A_{st}</i>	<i>in</i>	<i>mm</i>	173.1	4,394
4.34a	Minimum right-angle stacking width ⁽¹⁾		<i>in</i>	<i>mm</i>	119.1	3,025	
4.35	Turning radius	<i>W₂</i>	<i>in</i>	<i>mm</i>	99.9	2,537	
4.36	Inside turning radius	<i>b₁₃</i>	<i>in</i>	<i>mm</i>	12.5	318	
Performance	5.1	Travel speed, loaded/unloaded		<i>mph</i>	<i>km/h</i>	11.7 / 12.2	18.8 / 19.6
	5.2	Lift speed, loaded/unloaded		<i>fpm</i>	<i>m/s</i>	82 / 103	0.42 / 0.52
	5.3	Lowering speed, loaded/unloaded		<i>fpm</i>	<i>m/s</i>	75 / 78	0.38 / 0.40
	5.5	Tractive force, loaded/unloaded		<i>lbf</i>	<i>N</i>	4,750 / 3,205	21,130 / 14,255
	5.7	Gradeability, loaded/unloaded		<i>%</i>	<i>%</i>	18 / 16	18 / 16
	5.10	Service brake				Power-assist disc	Power-assist disc
Drive	7.1	Engine manufacturer / type				PSI 4X 4.3L T4	PSI 4X 4.3L T4
	7.2	Engine power		<i>hp</i>	<i>kw</i>	110	82
	7.3	Rated speed		<i>rpm</i>	<i>rpm</i>	2,400	2,400
	7.4	Number of cylinders / displacement		(-)/(in ³)	(-)/(L)	6 / 262	6 / 4.3
Other	10.1	Operating pressure for attachments		<i>psi</i>	<i>bar</i>	2,300	158
	10.7	Sound pressure level (driver's seat)		<i>dB (A)</i>	<i>dB (A)</i>	81	81

(1) Dimensions with triplex mast. Standard mast reduces by 0.8" (21mm)

(2) Includes 6" (150mm) operating clearance

MAST & CAPACITY TABLES

HT40CT

Mast Table								Lifting Capacity at 24" Load Center				
Mast Type	Tilt	h1 (lowered height)		H (lift height)		h2 (free lift)		Fork Carriage		Integrated Sideshifter		
		Degrees	in	mm	in	mm	in	mm	lb	kg	lb	kg
Standard	9F / 8B	83.3	2,116	2,116	110.0	2,794	6.6	168	8,000	3,620	8,000	3,620
	9F / 8B	89.2	2,266	2,266	122.0	3,099	6.6	168	8,000	3,620	8,000	3,620
	9F / 8B	101.1	2,568	2,568	145.0	3,683	6.6	168	8,000	3,620	8,000	3,620
	6F / 5B	112.9	2,868	2,868	169.0	4,293	6.6	168	8,000	3,620	8,000	3,620
Triplex	11F / 6B	83.3	2,116	2,116	170.0	4,318	57.7	1,466	8,000	3,620	7,400	3,350
	11F / 6B	89.2	2,266	2,266	188.0	4,775	63.6	1,615	8,000	3,620	7,400	3,350
	3F / 5B	98.1	2,492	2,492	198.0	5,029	72.4	1,839	8,000	3,620	7,400	3,350
	3F / 5B	101.0	2,565	2,565	211.0	5,359	75.4	1,915	7,400	3,350	7,000	3,170
	3F / 5B	107.0	2,718	2,718	229.0	5,817	81.3	2,065	7,275	3,300	6,700	3,030
	3F / 0B	118.8	3,018	3,018	253.0	6,426	93.1	2,365	7,000	3,170	6,425	2,910

HT50CT

Mast Table								Lifting Capacity at 24" Load Center				
Mast Type	Tilt	h1 (lowered height)		H (lift height)		h2 (free lift)		Fork Carriage		Integrated Sideshifter		
		Degrees	in	mm	in	mm	in	mm	lb	kg	lb	kg
Standard	9F / 8B	83.3	2,116	2,116	104.0	2,642	6.6	168	10,000	4,530	10,000	4,530
	9F / 8B	89.2	2,266	2,266	116.0	2,946	6.6	168	10,000	4,530	10,000	4,530
	9F / 8B	101.1	2,568	2,568	140.0	3,556	6.6	168	10,000	4,530	10,000	4,530
	6F / 5B	112.8	2,865	2,865	163.0	4,140	6.6	168	10,000	4,530	10,000	4,530
Triplex	11F / 6B	83.3	2,116	2,116	162.0	4,115	49.5	1,257	10,000	4,530	9,800	4,440
	11F / 6B	89.2	2,266	2,266	178.0	4,521	55.4	1,407	10,000	4,530	9,800	4,440
	3F / 5B	95.1	2,416	2,416	190.0	4,826	61.3	1,557	10,000	4,530	9,500	4,310
	3F / 5B	101.0	2,565	2,565	198.0	5,029	67.2	1,707	10,000	4,530	9,500	4,310
	3F / 5B	106.0	2,692	2,692	220.0	5,588	73.1	1,857	9,250	4,190	8,700	3,940
	3F / 0B	118.7	3,015	3,015	243.0	6,172	84.9	2,156	8,975	4,070	8,400	3,810

HT55CT

Mast Table								Lifting Capacity at 24" Load Center				
Mast Type	Tilt	h1 (lowered height)		H (lift height)		h2 (free lift)		Fork Carriage		Integrated Sideshifter		
		Degrees	in	mm	in	mm	in	mm	lb	kg	lb	kg
Standard	9F / 8B	83.3	2,116	2,116	100.0	2,540	7.0	178	12,000	5,440	12,000	5,440
	9F / 8B	89.2	2,266	2,266	112.0	2,845	7.0	178	12,000	5,440	12,000	5,440
	9F / 8B	101.0	2,565	2,565	135.0	3,429	7.0	178	12,000	5,440	12,000	5,440
	9F / 8B	112.8	2,865	2,865	159.0	4,039	7.0	178	12,000	5,440	12,000	5,440
Triplex	11F / 6B	83.3	2,116	2,116	152.0	3,861	51.2	1,300	12,000	5,440	12,000	5,440
	11F / 6B	89.2	2,266	2,266	169.0	4,293	57.1	1,450	12,000	5,440	11,800	5,350
	11F / 6B	95.1	2,416	2,416	180.0	4,572	63.0	1,600	12,000	5,440	11,600	5,260
		99.1	2,517	2,517	192.0	4,877	66.9	1,699	Consult with factory			
	6F / 5B	107.0	2,718	2,718	210.0	5,334	74.8	1,900	11,800	5,350	11,400	5,170
	3F / 5B	118.7	3,015	3,015	234.0	5,944	86.6	2,200	11,000	4,990	10,500	4,760

h1: Height of mast, lowered

h2: Free lift

H: Lift

CHARACTERISTICS



PERFORMANCE

- Field-proven LPG engine built for smooth operation and low emissions.
- Hydraulic system uses load-sensing flow control valve for steering to reduce horsepower loss and heat buildup.
- Controlled lowering independent of engine speed.
- Sectional hydraulic design allows for easy addition of extra functions.



MAINTENANCE

- No tools required to remove engine cover.
- Hardened exhaust and intake valves provide long life.
- System can be simply diagnosed using automotive-style malfunction light and fault codes.
- No exposed seals or driveshafts to wear or collect debris.



ERGONOMICS

- Left inching pedal operation allows for precisely controlled travel speeds during high-speed lifting.
- Excellent visibility through nested mast.
- Thick floor mat reduces vibration and noise level.
- Fully-adjustable suspension seat and tilt steering column supports operator comfort on the job.



SAFETY

- Brakes are applied with a hydraulic servo-type power brake valve.
- Optional rear handle with horn button increases operational awareness.
- Electronically controlled engine has low emissions.
- Silent staging reduces shock and vibrations.

For more information on Linde Material Handling equipment, please contact:



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