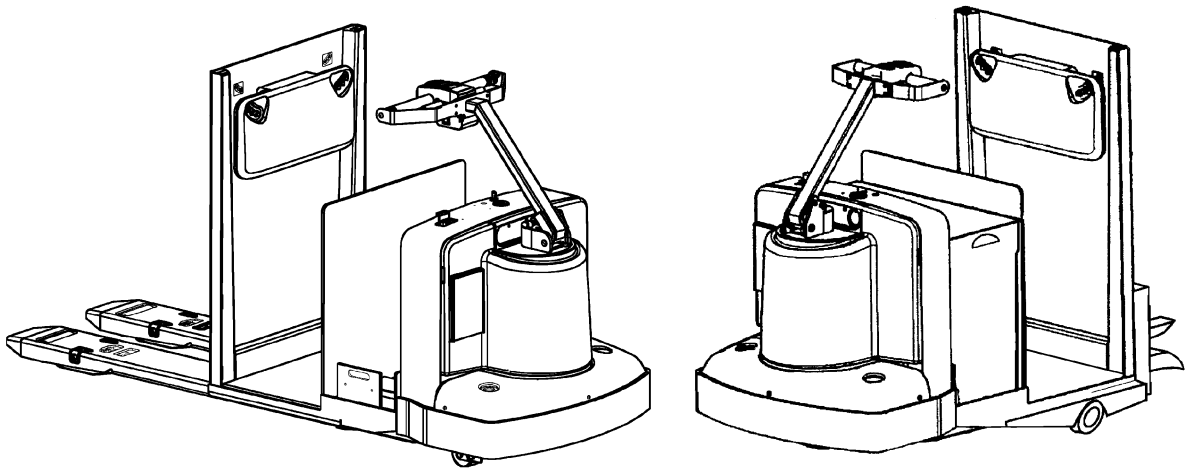


CAPACITIES AND SPECIFICATIONS

T5Z [A476]; T7Z [A477]; C60Z [A478];
C80Z [A479]; T5Z^{AC} [B476]; T7Z^{AC} [B477];
C60Z^{AC} [B478]; C80Z^{AC} [B479]



HYSTER

TABLE OF CONTENTS

Hydraulic System (C60-80Z and C60-80Z ^{AC})	1
Hydraulic Oils	1
Master Drive Unit Specifications.....	2
Gear Oils.....	2
Grease.....	3
Tire Specifications.....	3
Torque Specifications	4
Master Drive Unit	4
Brake	4
Steering	4
Electrical	4
Coupler (T5Z, T5Z ^{AC} , T7Z, and T7Z ^{AC})	4
Lift Pump (C60Z, C60Z ^{AC} , C80Z, and C80Z ^{AC}).....	4
Travel Speeds	5
T5Z, T5Z ^{AC} , T7Z, and T7Z ^{AC}	5
C60Z, C60Z ^{AC} , C80Z, and C80Z ^{AC}	5
Truck Weight.....	5
Battery Specifications and Adjustments	6

This section is for the following models:

T5Z [A476];
 T7Z [A477];
 C60Z [A478];
 C80Z [A479];
 T5Z^{AC} [B476];
 T7Z^{AC} [B477];
 C60Z^{AC} [B478];
 C80Z^{AC} [B479]

(More Content includes: Brake system, Capacities, and specifications, Frame, Hydraulic, System, Industrial battery, Main control, Valve, Mast repair, Fasteners, Schematics diagrams, Steering axle, Steering system, Wire harness repair And more)

[Click Here](#)

**Get all the content
after purchase**

**Thank you very
much.**

Hydraulic System (C60-80Z and C60-80Z^{AC})

Specification	C60Z and C60Z ^{AC}	C80Z and C80Z ^{AC}
Motor Power ¹	1.2 kW (1.6 hp)	1.5 kW (2.0 hp)
Hydraulic Relief Pressure	2700 psi	3500 psi
Lifting Speed		
With Load ²	4.7 seconds	5.7 seconds
Without Load	3.5 seconds	3.9 seconds
Lowering Speed		
With Load ²	1.2 seconds	2.4 seconds
Without Load	1.8 seconds	6.5 seconds
Pump Displacement	1.50 cm ³ (0.092 in. ³)/rev	2.00 cm ³ (0.122 in. ³)/rev
Allowable Drift With Load	6.4 mm (0.25 in.) Maximum in 10 minutes @ 21°C (70°F) Oil Temperature	
Hydraulic Reservoir Capacity	0.71 liter (0.75 qt)	0.85 liter (0.90 qt)
¹ 24 Volts DC ² Capacity Load		

Hydraulic Oils

Operating Condition	Standard	CS/Freezer/Food Processing	Arctic
Truck Temperature Range	0 to -84°C (32 to -120°F)	-18 to -84°C (0 to -120°F)	-40 to -84°C (-40 to -120°F)
For All Hydraulically Actuated Equipment			
Specification	ISO VG 46 Antiwear (HCE-140)	Exxon Univis [®] HVI 26	Exxon Univis [®] HVI 26
Pour Point Maximum	-15°C (5.0°F)	-60°C (-76.0°F)	-60°C (-76.0°F)
Field Personnel Note: The product listed above is the approved source that meets or exceeds HYSTER specifications. The use of products other than that listed above is unauthorized.			

Master Drive Unit Specifications

Model	Motor Power	Gear Ratio	Capacity	Oil Specification
T5Z and C60Z	2.0 kW (2.7 hp)	16:1	1.7 liter (1.8 qt)	Gear Oil
T7Z and C80Z	2.8 kW (3.8 hp)	17.8:1	2.0 liter (2.1 qt)	Gear Oil
T5Z ^{AC} and C60Z ^{AC}	4.0 kW (5.36 hp)	16:1	1.7 liter (1.8 qt)	Gear Oil
T7Z ^{AC} and C80Z ^{AC}	4.0 kW (5.36 hp)	17.8:1	2.0 liter (2.1 qt)	Gear Oil

Gear Oils

Operating Condition	Standard/CS/Freezer/Food Processing	Arctic
SAE Grade	80W-90	75W-90
Type	Multipurpose EP	Multipurpose EP
Base Oil	Conventional Petroleum	Synthetic
MIL-Specification No.	MIL-L-2105C	MIL-L-2105C
API Service Classification	GL-5	GL-5
Anticipated Ambient Temperature	-18 to 49°C (-15 to 100°F) Most HYSTER lift truck operations will fall within this temperature range.	As low as -60°C (-51°F) Primarily intended for cold storage and/or Arctic conditions; can be used as high as 90°C (32°F).
Approved Sources		
Chevron	Chevron Universal Gear Lube 80W/90	No Product
Exxon	Exxon Gear Oil GX 80W/90	No Product
Mobil	Mobilube HD 80W/90	Mobilube SHC 75W/90
Pennzoil	Pennzoil MP 4092	No Product
Phillips 66	Philube SMP Gear Oil 80W/90	No Product
Solene Lub. Inc.	Solene Gear Oil #905	No Product
Sun	Sunfleet GL-5 Gear Lube 80W/90	No Product
Union 76	Unocal MP Gear Lube LS 80W/90	No Product
Field Personnel Note: The products listed above are the approved sources that meet or exceed HYSTER specifications. The use of products other than that listed above is unauthorized.		

Grease

Fittings and Bearings			
Application	Standard/CS/Freezer	Arctic/Food Processing	Steer Bearings
Approved Vendor	Mobilgrease® 28	Amsoil GHD®	Amsoil GHD®
Oil	Synthetic	Synthetic	Synthetic
Thickener	Clay	Lithium Complex	Lithium Complex
Grade NGLI	1.5	2.0	2.0
Moly-Fortified	No	Yes	Yes
Dropping Pt.	310°C (590°F)	288°C (550°F)	288°C (550°F)

Field Personnel Note: The product listed above is the approved source that meets or exceeds **HYSTER** specifications. The use of products other than that listed above is unauthorized.

Tire Specifications

Lift Truck Model	Drive Tire		Load Wheel		Casters	
	Size	Composition	Size	Composition	Size	Composition
T5Z and T5Z ^{AC}	10.0 × 5.0 in.	Poly ¹ (Standard) Rubber ² (Optional) Siped-Poly ¹ (Optional)	8.0 × 5.0 in.	Rubber ² (Standard) Poly ³ (Optional)	Not Available	
T7Z and T7Z ^{AC}	12.0 × 4.5 in.	Poly ¹	8.0 × 5.0 in.	Rubber ² (Standard) Poly ³ (Optional)	Not Available	
C60Z and C60Z ^{AC}	10.0 × 5.0 in.	Rubber ² (Standard) Poly ¹ (Optional) Siped-Poly ¹ (Optional)	3.25 × 6.50 in.	Single/Poly ⁴ (Standard)	4.0 × 2.5 in.	Poly ⁴
			3.250 × 3.125 in.	Dual/Poly ⁴ (Optional)		
C80Z and C80Z ^{AC}	12.0 × 4.5 in.	Poly ¹	3.25 × 6.50 in.	Single/Poly ⁴ (Standard)	4.0 × 2.5 in.	Poly ⁵
			3.250 × 3.125 in.	Dual/Poly ⁴ (Optional)		

¹Durometer 90
²Durometer 65
³Durometer 93
⁴Durometer 95
⁵Durometer 92

Torque Specifications

MASTER DRIVE UNIT

Lower Nut on Motor Mounting Stud (4 Places)
26 N•m (19 lbf ft)

Upper Nut on Motor Mounting Stud (4 Places)
20 N•m (15 lbf ft)

Transmission to Frame Mounting Bolts (4 Each)(C60Z, C60Z^{AC}, T5Z, and T5Z^{AC})
201 N•m (148 lbf ft)

Transmission to Frame Mounting Bolts (4 Each)(C80Z, C80Z^{AC}, T7Z, and T7Z^{AC})
300 N•m (221 lbf ft)

Top Cover to Support Bracket
32 N•m (24 lbf ft)

Pinion Gear to Shaft
180 N•m (133 lbf ft)

Drive Shaft Gear Retaining Nut
300 N•m (221 lbf ft)

Drain Plug
60 N•m (44 lbf ft)

Fill Plug
45 N•m (33 lbf ft)

Lug Bolts (5 Each) (C60Z and T5Z)
201 ±9 N•m (148 ±7 lbf ft)

Lug Nuts (5 Each) (C80Z, C80Z^{AC}, T7Z, and T7Z^{AC})
201 ±9 N•m (148 ±7 lbf ft)

BRAKE

Installation Allen-Head Capscrews (3 Each) (C60Z, C60Z^{AC}, T5Z, and T5Z^{AC})
10 N•m (89 lbf in)

Installation Allen-Head Capscrews (3 Each) (C80Z, C80Z^{AC}, T7Z, and T7Z^{AC})
17 N•m (13 lbf ft)

STEERING

Support to Frame Mounting Bolts (4 Each)
88 N•m (65 lbf ft)

Steer Bearing Locking Nut
27 N•m (20 lbf ft)

Control Handle Bracket to Control Handle Arm (4 Each)
14 N•m (10 lbf ft)

Control Handle Head to Control Handle Bracket (4 Each)
9 N•m (80 lbf in)

Directional Control Shaft to Control Handle Bracket (2 Each)
42 N•m (31 lbf ft)

ELECTRICAL

Traction Motor Terminals (4 Each)
9 N•m (80 lbf in)

COUPLER (T5Z, T5Z^{AC}, T7Z, AND T7Z^{AC})

Coupler (Jaw-Type) to Frame (4 Each)
102 N•m (75 lbf ft)

Coupler (Pin-Type) to Frame (2 Each)
203 N•m (150 lbf ft)

LIFT PUMP (C60Z, C60Z^{AC}, C80Z, AND C80Z^{AC})

Pressure Port Fitting
38 N•m (28 lbf ft)

Travel Speeds

T5Z, T5Z^{AC}, T7Z, AND T7Z^{AC}

Model	No Load						200 lbs Drawbar Pull			300 lbs Drawbar Pull			5000 lbs GTW		
	Level			5% Grade			Level			Level			5% Grade		
	Speed		Batt. Amp.	Speed		Batt. Amp.	Speed		Batt. Amp.	Speed		Batt. Amp.	Speed		Batt. Amp.
	km/h	mph		km/h	mph		km/h	mph		km/h	mph		km/h	mph	
T5Z	12.6	7.8	98.3	5.9	3.7	176.0	7.1	4.4	135.6	N/A	N/A	N/A	4.7	2.9	259.0
T7Z	13.5	8.4	138.9	8.9	5.5	187.0	N/A	N/A	N/A	6.8	4.2	225.4	4.6	2.8	285.0

NOTE: Information applies to trucks equipped with rubber drive tire and 454 kg (1000 lb) battery with specific gravity 1.265 or higher.

C60Z, C60Z^{AC}, C80Z, AND C80Z^{AC}

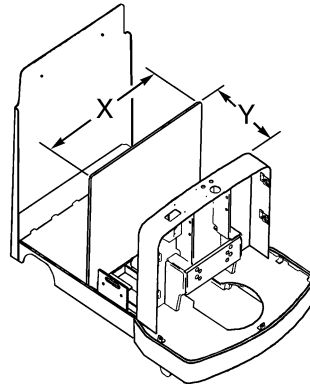
Model	No Load						Loaded to Capacity					
	Level			5% Grade			Level			5% Grade		
	Speed		Batt. Amp.	Speed		Batt. Amp.	Speed		Batt. Amp.	Speed		Batt. Amp.
	km/h	mph		km/h	mph		km/h	mph		km/h	mph	
C60Z	13.0	8.1	56.6	9.0	5.6	129.0	9.5	5.9	110.0	4.2	2.6	294.0
C80Z	12.6	7.8	95.3	8.0	5.0	132.0	7.4	4.6	145.4	3.9	2.4	251.0

NOTE: Information applies to trucks equipped with poly drive tire and 454 kg (1000 lb) battery with specific gravity 1.265 or higher.

Truck Weight

Unit	Less Battery		With Battery	
	kg	lb	kg	lb
T5Z and T5Z ^{AC}	541	1192	994	2192
T7Z and T7Z ^{AC}	587	1295	1041	2295
C60Z and C60Z ^{AC}	733	1616	1187	2616
C80Z and C80Z ^{AC}	836	1842	1289	2842

Battery Specifications and Adjustments



BO030000

Figure 1. Battery Compartment

Battery and Battery Compartment Dimensions									
Model	Battery Compartment			Battery					
	Dimensions			Length (X)		Width (Y)		Capacity ²	Weight
	Length (X) mm (in.)	Width (Y) mm (in.)	Height	Min ¹ mm (in.)	Max mm (in.)	Min ¹ mm (in.)	Max mm (in.)	Max kwh (amp hr)	Max kg (lb)
T5Z and T5Z ^{AC}	794 (31.25)	340 (13.4)	Open	648 (25.5)	785 (30.9)	218 (8.6)	330 (13)	11.9 (510)	469 (1035)
T7Z and T7Z ^{AC}	794 (31.25)	340 (13.4)	Open	648 (25.5)	785 (30.9)	218 (8.6)	330 (13)	17.6 (750)	658 (1450)
C60Z and C60Z ^{AC}	794 (31.25)	340 (13.4)	Open	663 (26.1)	785 (30.9)	325 (12.8)	330 (13)	11.9 (510)	469 (1035)
C80Z and C80Z ^{AC}	794 (31.25)	340 (13.4)	Open	663 (26.1)	785 (30.9)	325 (12.8)	330 (13)	17.6 (750)	658 (1450)

¹ Minimum battery dimensions allowed with standard battery spacer group.
² 6 hour rate.
NOTE: 24 Volt DC battery only.
 Covered batteries required.
 Battery connector type is 175 Amp, Red (Gray is optional).
 Cable lead position B.
 20-Inch cable length.
 Maximum cable gauge of 1/0.

