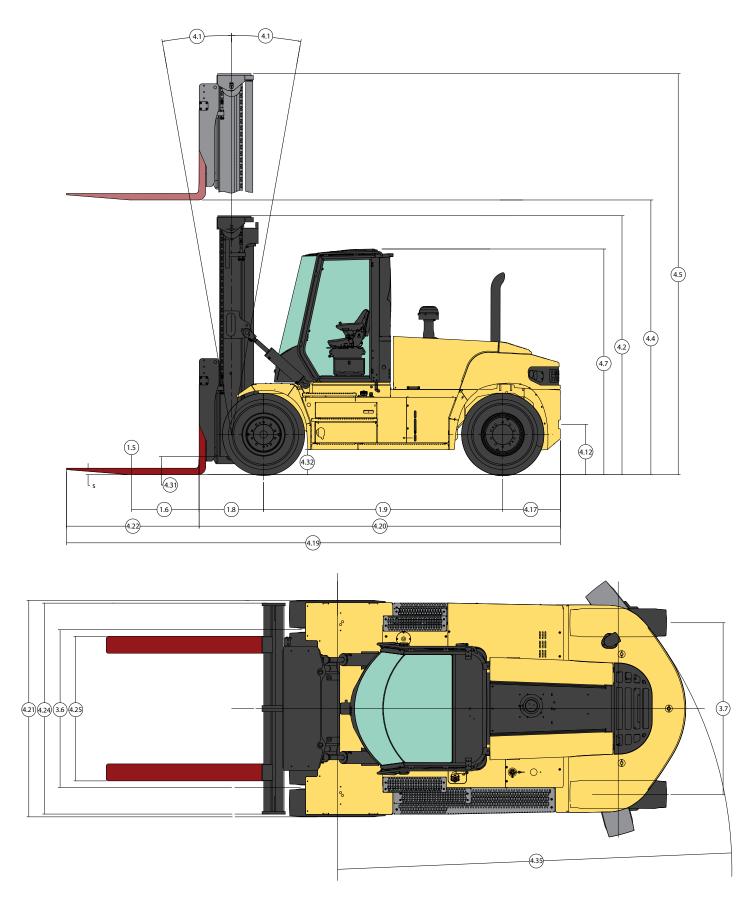


HEAVY DUTY FORKLIFT TRUCK PNEUMATIC TIRE PRODUCT TECHNICAL GUIDE





H300XDS | H330XDS | H300XD SPECIFICATIONS

	1-1	Manufacturer				HYS	TFR			HYS	TFR			HYS	ΓFR	
	1-2	Model designation			H300XDS		H330XDS			H300XD						
	1-3	Powertrain/drivetrain					esel		Die					Die		
Æ	1-4	Operator type				Sea				Sea				Sea		
ä	1-5	Rated load capacity	lb	kg	30,0	000	13,	608	33,0	000	14,	969	30,	000	13,6	808
5	1-6	Load center	in	mm	2	4	6	10	2	4	6	10	2	4	61	10
	1-8	Load distance	in	mm	35	5.0	8	39	35	5.0	88	89	35	.0	88	39
	1-9	Wheelbase	in	mm	11	14	2,9	900	11	14	2,9	900	13	80	3,3	00
Ę.	2-1	Total truck weight without load	lb	kg	40,3	336	18,	296	41,0	653	18,	893	38,	521	17,4	473
<u>5</u>	2-2	Axle loading with load, front/rear	lb	kg	64,221	6,115	29,130	2,774	68,288	6,364	30,975	2,887	63,276	5,245	28,702	2,379
≥	2-3	Axle loading without load, front/rear	lb	kg	18,718	21,618	8,490	9,806	18,235	23,418	8,271	10,622	19,652	18,868	8,914	8,558
	3-1	Tire type	Ty	эе		Pneu	matic			Pneu	matic			Pneur	natic	
(0	3-2	Tire size, front				12.00-2	20 16PR			12.00-2	0 16PR			12.00-2	0 16PR	
EELS	3-3	Tire size, rear				12.00-2	20 16PR			12.00-2	0 16PR			12.00-2	0 16PR	
₹ ¥	3-5	Number of tires, front/rear (X driven)	#	!			4/2		x4/2				x4			
	3-6	Tread width, front	in	mm	72		1,842		72.5			342	72		1,8	
	3-7	Tread width, rear	in	mm	79)17	79		2,0)17	79		2,0	117
	4-1	Mast tilt, forward/back	Degr				/12B		15F/						/12B	
	4-2	Height of mast lowered	in	mm	14			568	14			568	14		3,5	
	4-3	Freelift	in	mm	()	(0	(0.7	
	4-4	Lift height (top of fork)	in	mm	14			750	14		,	750	14		3,7	
	4-4-1	Lift height (bottom of fork)	in	mm	14			660	14			660	14		3,6	
	4-5	Height, extended	in	mm	21			398	2′			398	2′		5,3	
	4-7 4-7-1	Height to top of operator compartment (open cab)	in	mm	120)56	120			056	12		3,0	
-	4-7-1	Height, top of operator comp (closed cab)	in	mm	12)81	12		3,0		12:		3,1	
		,	in	mm	12)81 170	12		3,0	178	12: 12:		3,1	
	4-7-3 4-7-4	Height, top of operator comp (closed cab w/ strobe light) Height, top of operator comp (closed cab w/ work lights)	in in	mm mm	125 127			178 231	12: 12:		3,2		12		3,2 3,2	
		Height, top of operator comp (closed cab w/ work lights)	111	111111	121	.2			12							
SNS	4-7-5	and strobe)	in	mm	120	6.3	3,2	208	12	6.3	3,2	208	12	7.4	3,2	36
S	4-8	Seat height to seat point index (SIP)	in	mm	7	4	1,8	375	7	4	1,8	375	7	5	1,9	02
ME	4-19	Overall length	in	mm	25	58	6,5	543	25	58	6,5	543	26	8	6,8	12
	4-20	Length to load face	in	mm	18	36	4,7	714	18	36	4,7	714	19	96	4,9	83
	4-21	Overall width of truck	in	mm	10	00	2,5	540	10	00	2,5	540	10	00	2,5	40
	4-22	Fork dimension	in	mm	3.5/8	3/48	90/200)/1,220	3.5/	3/48	90/200	0/1,220	3.5/	3/48	90/200	/1,220
	4-23	Fork carriage type	Ty	эе	Star	ndard pin	type carr	iage	Star	ndard pin	type carr	iage	Star	dard pin	type carri	age
	4-24	Carriage width	in	mm	98	.3	2,4	196	98	.3	2,4	196	98	.3	2,4	96
	4-25-1	Fork spread, min (in-in)	in	mm	2.	8	7	0	2.			0	2.		7	0
	4-25-2		in	mm	91			320	91			320	91		2,3	
	4-30	Sideshift	in	mm	())		0	()
	4-31	Ground clearance, under mast w/o load	in	mm	9.			45	9.			45	9.		24	
	4-32	Ground clearance, center of wheelbase	in	mm	13			41	13			41	13		34	
	4-34	Minimum aisle width (add load length & clearance)	in	mm	20)69	20			069	2′		5,4	
	4-35	Outside turning radius	in	mm	16			180	16			180	18		4,5	
Tie						Cummins				Cummins					QSB 6.7L	
	5-1	Travel speed, with/without load Lifting speed, with/without load - 90cc pump	mph ft/min	km/h	17	18	27	29	17	18	27	29	17	18	27	29
	5-2-1		ft/min	m/s	-			-	-	•		-	-		-	
	F 0 0	0 1 1													-	0.46
Š	5-2-2	Lifting speed, with/without load - 111cc pump	ft/min	m/s	01	. 01	0.41	0.46	01	01	0.41	0.46	01	01	0.41	0.46
RMANCE	5-2-3	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump	ft/min ft/min	m/s m/s	81	91	0.41	0.46	81	91	0.41	0.46	81	91	0.41	0.48
FORMANCE	5-2-3 5-3	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load	ft/min ft/min ft/min	m/s m/s m/s	106	95	0.54	0.48	106	95	0.54	0.48	106	95	0.54	0.48
PERFORMANCE	5-2-3 5-3 5-5	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load	ft/min ft/min ft/min lb	m/s m/s m/s kN	106 22,000	95 23,200	0.54 98	0.48 103	106 21,900	95 23,100	0.54 97	0.48 103	106 22,100	95 23,200	0.54 98	103
PERFORMANCE	5-2-3 5-3 5-5 5-6	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load	ft/min ft/min ft/min lb	m/s m/s m/s kN	106	95 23,200 26,100	0.54 98 111	0.48	106	95 23,100 26,000	0.54 97 110	0.48	106	95 23,200 26,100	0.54 98 111	
PERFORMANCE	5-2-3 5-3 5-5 5-6 5-7	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load	ft/min ft/min Ib Ib	m/s m/s m/s kN kN	106 22,000	95 23,200 26,100 35	0.54 98 111 /31	0.48 103	106 21,900	95 23,100 26,000 33/	0.54 97 110 /29	0.48 103	106 22,100	95 23,200 26,100 36/	0.54 98 111 35	103
	5-2-3 5-3 5-5 5-6 5-7 5-8	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load	ft/min ft/min ft/min lb	m/s m/s m/s kN kN	106 22,000 24,900	95 23,200 26,100 35, 40,	0.54 98 111 /31 /31	0.48 103 116	106 21,900 24,800	95 23,100 26,000 33/ 38/	0.54 97 110 /29	0.48 103 116	106 22,100 25,000	95 23,200 26,100 36/ 41/	0.54 98 111 35 35	103 116
	5-2-3 5-3 5-5 5-6 5-7 5-8 3: Cum	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L	ft/min ft/min Ib Ib	m/s m/s m/s kN kN	106 22,000 24,900	95 23,200 26,100 35, 40,	0.54 98 111 /31 /31 QSB 6.7	0.48 103 116	106 21,900 24,800	95 23,100 26,000 33/ 38/ Cummins	0.54 97 110 /29 /29 QSB 6.7	0.48 103 116	106 22,100 25,000	95 23,200 26,100 36/ 41/	0.54 98 111 35 35 QSB 6.7L	103 116
	5-2-3 5-3 5-5 5-6 5-7 5-8	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load	ft/min ft/min Ib Ib	m/s m/s m/s kN kN	106 22,000 24,900	95 23,200 26,100 35, 40,	0.54 98 111 /31 /31	0.48 103 116	106 21,900 24,800	95 23,100 26,000 33/ 38/ Summins	0.54 97 110 /29	0.48 103 116	106 22,100 25,000	95 23,200 26,100 36/ 41/ summins 18	0.54 98 111 35 35	103 116
	5-2-3 5-3 5-5 5-6 5-7 5-8 r 3: Cum	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load - 90cc pump	ft/min ft/min ft/min lb lb %	m/s m/s m/s kN kN kN kM	106 22,000 24,900	95 23,200 26,100 35, 40,	0.54 98 111 /31 /31 QSB 6.7	0.48 103 116	106 21,900 24,800	95 23,100 26,000 33/ 38/ Summins	0.54 97 110 /29 /29 QSB 6.7	0.48 103 116	106 22,100 25,000	95 23,200 26,100 36/ 41/ summins 18	0.54 98 111 35 35 QSB 6.7L	103 116
	5-2-3 5-3 5-5 5-6 5-7 5-8 3: Cum 5-1 5-2-1	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load - 90cc pump	ft/min ft/min ft/min lb lb % mph ft/min	m/s m/s m/s kN kN km/h m/s	106 22,000 24,900	95 23,200 26,100 35, 40, 2ummins 18	0.54 98 111 /31 /31 QSB 6.7	0.48 103 116 29	106 21,900 24,800	95 23,100 26,000 33/ 38/ ummins 18	0.54 97 110 /29 /29 QSB 6.71	0.48 103 116	106 22,100 25,000	95 23,200 26,100 36/ 41/ summins 18	0.54 98 111 35 35 QSB 6.7L 27	103 116 29
	5-2-3 5-3 5-5 5-6 5-7 5-8 r3: Cum 5-1 5-2-1 5-2-2	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump	ft/min ft/min ft/min lb lb %/ mph ft/min ft/min	m/s m/s m/s kN kN km/h m/s m/s	106 22,000 24,900	95 23,200 26,100 35, 40, 2ummins 18	0.54 98 111 /31 /31 QSB 6.7	0.48 103 116 29	106 21,900 24,800	95 23,100 26,000 33/ 38/ ummins 18	0.54 97 110 /29 /29 QSB 6.71	0.48 103 116	106 22,100 25,000	95 23,200 26,100 36/ 41/ summins 18	0.54 98 111 35 35 QSB 6.7L 27	103 116 29
	5-2-3 5-3 5-5 5-6 5-7 5-8 3: Cum 5-1 5-2-1 5-2-2 5-2-3	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump	ft/min ft/min ft/min lb lb % mph ft/min ft/min	m/s m/s m/s kN kN kN m/s m/s m/s	106 22,000 24,900 17 71	95 23,200 26,100 35, 40, 2ummins 18	0.54 98 111 /31 /31 QSB 6.7 27	0.48 103 116 29 0.40	106 21,900 24,800 17 71	95 23,100 26,000 33/ 38/ Cummins 18	0.54 97 110 /29 /29 QSB 6.7 1 27	0.48 103 116 29 0.40	106 22,100 25,000 17	95 23,200 26,100 36/ 41/ Summins 18	0.54 98 111 35 35 35 QSB 6.7L 27 0.36	103 116 29 0.40
	5-2-3 5-3 5-5 5-6 5-7 5-8 3: Cum 5-1 5-2-1 5-2-2 5-2-3 5-3	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load	ft/min ft/min lb lb % mph ft/min ft/min ft/min	m/s m/s m/s kN kN km/h m/s m/s m/s	106 22,000 24,900 17 71 106	95 23,200 26,100 35, 40, 20mmins 18 79	0.54 98 111 /31 /31 QSB 6.7 27 0.36	0.48 103 116 29 0.40	106 21,900 24,800 17 71 106	95 23,100 26,000 33/ 38/ 2ummins 18 79	0.54 97 110 /29 /29 QSB 6.7 27 0.36	0.48 103 116 29 0.40	106 22,100 25,000 17 71 106	95 23,200 26,100 36/ 41/ cummins 18 79	0.54 98 111 35 35 QSB 6.7L 27 0.36	103 116 29 0.40
	5-2-3 5-3 5-5 5-6 5-7 5-8 r 3: Cum 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load	ft/min ft/min lb lb % mph ft/min ft/min ft/min ft/min lb	m/s m/s m/s kN kN km/h m/s m/s km/s km/s km/s kN	106 22,000 24,900 17 71 106 20,800	95 23,200 26,100 35, 40, Cummins 18 79 94 22,000 24,700	0.54 98 111 /31 /31 QSB 6.7 27 0.36 0.54 93	0.48 103 116 29 - 0.40 - 0.48 98	106 21,900 24,800 17 71 106 20,700	95 23,100 26,000 33/ 38/ ummins 18 79 94 21,900	0.54 97 110 /29 /29 QSB 6.7 27 0.36 0.54 92 104	0.48 103 116 29 0.40 0.48 97	106 22,100 25,000 17 71 106 20,900	95 23,200 26,100 36/ 41/ cummins 18 79 94 22,000	0.54 98 111 35 35 QSB 6.7L 27 0.36 0.54 93 105	103 116 29 0.40 0.48 98
	5-2-3 5-3 5-5 5-6 5-7 5-8 r 3: Cum 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5 5-6	Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load mins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load	ft/min ft/min lb lb % mph ft/min ft/min ft/min ft/min ft/min lb lb	m/s m/s m/s kN kN kN m/s km/h m/s m/s km/s kN	106 22,000 24,900 17 71 106 20,800	95 23,200 26,100 35, 40, Cummins 18 79 94 22,000 24,700	0.54 98 111 /31 /31 QSB 6.7 27 0.36 0.54 93 105 /31	0.48 103 116 29 - 0.40 - 0.48 98	106 21,900 24,800 17 71 106 20,700	95 23,100 26,000 33,38,38,4 20,000 18,200 24,900	0.54 97 110 /29 /29 QSB 6.7 27 0.36 0.54 92 104	0.48 103 116 29 0.40 0.48 97	106 22,100 25,000 17 71 106 20,900	95 23,200 26,100 36/ 41/ 24/ 18 79 94 22,000 24,800	0.54 98 111 35 35 QSB 6.7L 27 0.36 0.54 93 105 35	103 116 29 0.40 0.48 98

H330XD | H360XD | H210XD48 SPECIFICATIONS

	1-1	Manufacturer				HYS	TFR			HYS	TFR			HYS	ΓFR									
	1-2	Model designation			H330				H360XD				H210XD48											
	1-3	Powertrain/drivetrain				Die			Diesel					sel										
ΑĀ	1-4	Operator type				Sea	ted			Sea	ited			Seat	ed									
GENERAI	1-5	Rated load capacity	lb	kg	33,0	000	14,	969	36,0	000	16,	329	21,0	00	9,5	525								
e	1-6	Load center	in	mm	24	4	61	10	24	1	6	10	48	}	1,2	219								
	1-8	Load distance	in	mm	35		88		35			39	35.			89								
	1-9	Wheelbase	in 	mm	13		3,3		13		3,3		13			300								
爿	2-1	Total truck weight without load	lb	kg	39,7			048	42,1			126	38,8			621								
WEIGHT	2-2 2-3	Axle loading with load, front/rear	lb lb	kg	67,205 19,219	5,583 20,569	30,484 8,718	2,532 9,330	71,955 19.607	6,209 22,558	32,638 8,894	2,816 10,232	54,659 20,244	5,188 18,603	24,793 9,183	2,353 8,438								
	3-1	,		kg De	19,219	Pneur		9,330	19,007	Pneu		10,232	20,244	Pneur	,	0,430								
	3-2	21				12.00-2				12.00-2				12.00-20										
WHEELS	3-3	Tire size, rear	0			12.00-2				12.00-2				12.00-20										
불	3-5	Number of tires, front/rear (X driven)	#			x4	/2			x4	/2			x4/	2									
	3-6	Tread width, front	in	mm	72	.5	1,8	342	72	.5	1,8	342	72.	.5	1,8	342								
	3-7	Tread width, rear	in	mm	79		2,0)17	79.		2,0)17	79.		,)18								
	4-1	Mast tilt, forward/back	Degr	ees		15F/				15F/				15F/										
	4-2	Height of mast lowered	in	mm	14		3,568		141		3,5		14			568								
	4-3	Freelift	in	mm	0)	0)	0			0								
	4-4 4-4-1	Lift height (top of fork)	in	mm	14		3,7		14		3,7		14 14			750 seo								
	4-4-1 4-5	Lift height (bottom of fork) Height, extended	in in	mm	14 21		3,6 5,3		14 21		3,6 5,3		21			360 398								
	4-5	Height to top of operator compartment (open cab)	in	mm	121		3,0		121		3,0		121			084								
	4-7-1	Height, top of operator comp (closed cab)	in	mm	122		3,1		122			109	122			109								
	4-7-2	Height, top of operator comp (closed cab w/ AC)	in	mm	122		3,1		122		3,1		122			109								
	4-7-3	Height, top of operator comp	in	mm	126.2		3,2	205	126.2		3.2	205	126	5.2	3,205									
		(closed cab w/ strobe light) Height, top of operator comp																						
2	4-7-4	(closed cab w/ work lights)	in	mm	128	128.3 3,259		259	128.3		3,259		128.3		3,259									
DIMENSIONS	4-7-5	Height, top of operator comp (closed cab w/ AC and strobe)	in	mm	127.4		3,2	3,236		127.4		3,236		127.4		236								
ME	4-8	Seat height to seat point index (SIP)	in	mm	7:		1,9		75			902	75			902								
_	4-19	Overall length	<u> </u>		26		6,812		268		6,812		292		,	122								
	4-20 4-21	Length to load face Overall width of truck	in	mm	19		4,9		19		4,9		19			983								
	4-21	Fork dimension	in in	mm mm	100 3.5/8/48		2,540 90/200/1,220		100 3.5/8/48		2,540 90/200/1,220		100 3.5/8/96		2,540 90/200/2,440									
	4-23	Fork carriage type	Type												type carriage				type carri			dard pin t		
	4-24	Carriage width	in	mm	98	•	2,4	•	98	•		196	98.			496								
	4-25-1	Fork spread, min (in-in)	in	mm	2.	8		0	2.	8		0	2.8	3		0								
	4-25-2	Fork spread, max (out-out)	in	mm	91	.3	2,320		91.3		2,320		91.	.3	2,320									
	4-30	Sideshift	in	mm	0		0		0		0													
	4-31	Ground clearance, under mast w/o load	in	mm	9.6		245		9.		245		9.0			45								
	4-32	Ground clearance, center of wheelbase	in	mm		13.4		341		.4	341		13.			41								
	4-34	Minimum aisle width (add load length & clearance)	in	mm	21		5,4		21		5,4		21			461								
Tie	4-35	Outside turning radius	in	mm	18		4,5 QSB 6.7L	572	18		4,5 QSB 6.7L		18 C	ummins (572								
	5-1	Travel speed, with/without load	mph	km/h	17	18	27	29	17	18	27	29	17	18	27	29								
	5-2-1	Lifting speed, with/without load - 90cc pump	ft/min	m/s	-				-				-			-								
뿡	5-2-2	Lifting speed, with/without load - 111cc pump	ft/min	m/s	-				-			-	-			-								
IAN	5-2-3	Lifting speed, with/without load - 126cc pump	ft/min	m/s	81	91	0.41	0.46	81	91	0.41	0.46	81	91	0.41	0.46								
OR)	5-3	Lowering speed, with/without load	ft/min	m/s	106	95	0.54	0.48	106	95	0.54	0.48	106	95	0.54	0.48								
PERFORMANCE	5-5	Drawbar pull - 1 mph (1.6 km/h), with/without load	lb	kN	22,000	23,200	98	103	21,700	23,100	97	103	22,500	23,300	100	104								
_	5-6	Drawbar pull - stall, with/without load	lb	kN	24,800	26,100	110	116	24,600	24,600	109	109	25,300	26,200	113	117								
	5-7 5-8	Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load	%			34/				31/				43/3										
Tie		mins QSB 6.7L	/(39/33 Cummins QSB 6.7L				35/32 Cummins QSB 6.7L				C	ummins										
	5-1	Travel speed, with/without load	mph	km/h	17	18	27	29	17	18	27	29	17	18	27	29								
	5-2-1	Lifting speed, with/without load - 90cc pump	ft/min	m/s	-			-	-			-	-			-								
병	5-2-2	Lifting speed, with/without load - 111cc pump	ft/min	m/s	71	79	0.36	0.40	71	79	0.36	0.40	71	79	0.36	0.40								
JAN	5-2-3	Lifting speed, with/without load - 126cc pump	ft/min	m/s									-			-								
PERFORMANCE	5-3	Lowering speed, with/without load	ft/min	m/s	106	94	0.54	0.48	106	94	0.54	0.48	106	94	0.54	0.48								
뀲	5-5	Drawbar pull - 1 mph (1.6 km/h), with/without load	lb 	kN	20,700	22,000	92	98	20,500	21,900	91	97	21,200	22,000	94	98								
4	5-6	Drawbar pull - stall, with/without load	lb º/	kN	23,500	24,700	105	110	23,200	24,600	103	109	24,000	24,800	107	110								
	5-7 5-8	Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load	%			32/ 37/				29/				41/3										
	J-0	Oraceability Stall, with load/without load	70			3//	00			33/	UZ			46/	JU									

H230XD48 | H250XD48 SPECIFICATIONS

	1-1	Manufacturer				HYST	FR			HYS	TER	
	1-2	Model designation				H230X				H250)		
	1-3	Powertrain/drivetrain				Dies				Dies		
₹	1-4	Operator type				Seat				Seat		
Ë	1-5	Rated load capacity	lb	kg	23,0			433	25,0		11,3	340
2	1-6	Load center	in	mm	48		1,2		48		1,2	
	1-8	Load distance	in	mm	35.		88		35		88	
	1-9	Wheelbase	in	mm	13		3,3		13		3,3	
	2-1	Total truck weight without load	lb	kg	40,3		18,2		42,0		19,0	
Ξ	2-2	Axle loading with load, front/rear	lb	kg	57,729	5,611	26,185	2,545	61,140	5,908	27,733	2,680
WE	2-3	Axle loading without load, front/rear	lb	kg	20,035	20,304	9,088	9,210	20,169	21,879		9,924
	3-1	Tire type		rpe	20,000	Pneum		3,210	20,103	Pneur		3,324
	3-2	Tire size, front		0		12.00-20				12.00-20		
FELS	3-3	Tire size, rear		0		12.00-20				12.00-20		
WHE	3-5	Number of tires, front/rear (X driven)		#		x4/				x4/		
5	3-6	Tread width, front	in	mm	72.		1,8	42	72		1,8	42
	3-7	Tread width, rear	in	mm	79.		2,0		79		2,0	
	4-1	Mast tilt, forward/back	Deg	rees		15F/1				15F/		
	4-2	Height of mast lowered	in	mm	14	1	3,5	68	14	1	3,5	68
	4-3	Freelift	in	mm	0		(0		C	
	4-4	Lift height (top of fork)	in	mm	14	7	3,7	'50	14	7	3,7	50
	4-4-1	Lift height (bottom of fork)	in	mm	14	4	3,6	60	14	4	3,6	
	4-5	Height, extended	in	mm	21	3	5,3	98	21	3	5,3	98
	4-7	Height to top of operator compartment (open cab)	in	mm	121	.4	3,0	184	121	.4	3,0	84
	4-7-1	Height, top of operator comp (closed cab)	in	mm	122	.4	3,1	09	122	2.4	3,1	09
	4-7-2	Height, top of operator comp (closed cab w/ AC)	in	mm	122	.4	3,1	09	122	2.4	3,1	09
	4-7-3	Height, top of operator comp (closed cab w/ strobe light)	in	mm	126	.2	3,2	.05	126	6.2	3,2	05
	4-7-4	Height, top of operator comp (closed cab w/ work lights)	in	mm	128	.3	3,2	:59	128	3.3	3,2	59
NS	4-7-5	Height, top of operator comp (closed cab w/ AC and strobe)	in	mm	127	.4	3,2	236	127	'.4	3,2	36
<u>S</u>	4-8	Seat height to seat point index (SIP)	in	mm	75	5	1,9	02	75	5	1,9	02
DIMEN	4-19	Overall length	in	mm	29	2	7,4	22	29	2	7,4	22
□	4-20	Length to load face	in	mm	19	6	4,9	83	19	6	4,9	83
	4-21	Overall width of truck	in	mm	10		2,5		10		2,5	
	4-22	Fork dimension	in	mm	3.5/8		90/200		3.5/8		90/200	
	4-23	Fork carriage type	,	pe		dard pin t		-		idard pin t		_
	4-24			mm	98.	3	2,4		98	.3	2,4	96
		Carriage width	in								_	
	4-25-1	Fork spread, min (in-in)	in	mm	2.8			0	2.		7	
	4-25-1 4-25-2	Fork spread, min (in-in) Fork spread, max (out-out)	in in	mm mm	91.	3	2,3	20	91	.3	2,3	20
	4-25-1 4-25-2 4-30	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift	in in in	mm mm mm	91. 0	3	2,3	320	91 0	.3	2,3 0	20
	4-25-1 4-25-2 4-30 4-31	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load	in in in in	mm mm mm mm	91. 0 9.6	3	2,3 (2 ⁴	320) 45	91 0 9.	.3 6	2,3 0 24	20) 15
	4-25-1 4-25-2 4-30 4-31 4-32	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase	in in in in in	mm mm mm mm	91. 0 9.6 13.	3 6 4	2,3 (2 ⁴ 3 ⁴	320) 45 41	91 0 9.	.3 6 .4	2,3 0 24 34	20) 45 41
	4-25-1 4-25-2 4-30 4-31 4-32 4-34	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance)	in in in in in in in in	mm mm mm mm mm	91. 0 9.6 13. 21	3 6 4 5	2,3 (2 ⁴ 3 ⁴ 5,4	120) 45 41 161	91 0 9. 13 21	.3 6 .4 5	2,3 0 24 34 5,4	20) 45 41 61
Tio	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase	in in in in in	mm mm mm mm	91. 0 9.6 13.	3 6 4 5	2,3 (2 ⁴ 3 ⁴	120) 45 41 161	91 0 9.	.3 6 .4 5	2,3 0 24 34	20) 45 41 61
Tie	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius	in	mm mm mm mm mm mm	91. 0 9.6 13. 21:	3 6 4 5 0	2,3 (2 ⁴ 3 ⁴ 5,4 4,5	320) 45 41 461 572	91 0 9. 13 21 18	.3 6 .4 5	2,3 0 24 34 5,4 4,5	20) 45 41 61 72
Tie	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r 4F 5-1	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load	in in in in in in mph	mm mm mm mm mm mm	91. 0 9.6 13. 21	3 6 4 5	2,3 (2 ⁴ 3 ⁴ 5,4	120) 45 41 161	91 0 9. 13 21	.3 6 .4 5	2,3 0 24 34 5,4	20) 45 41 61
Tie	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r4F 5-1 5-2-1	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump	in in in in in in in mph ft/min	mm mm mm mm mm mm km/h	91. 0 9.6 13. 21:	3 6 4 5 0	2,3 (2 ⁴ 3 ⁴ 5,4 4,5	320) 45 41 461 572	91 0 9. 13 21 18	.3 6 .4 5	2,3 0 24 34 5,4 4,5	20) 45 41 61 72
ANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 (4F 5-1 5-2-1 5-2-2	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump	in in in in in in in in in ft/min ft/min	mm mm mm mm mm mm mm	91. 0 9.6 13. 21: 18: 17	3 6 4 5 0	2,3 (2 ² 3 ⁴ 5,4 4,5	220) 45 41 661 672 29	91 0 9. 13 21 18	3 6 .4 5 0	2,3 C 24 344 5,4 4,5	20) 15 11 61 72 29
RMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 (4F 5-2-1 5-2-2 5-2-3	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump	in in in in in in in fl/min ft/min	mm mm mm mm mm mm km/h m/s	91. 0 9.6 13. 21: 18: 17 - 81	3 3 4 4 5 0 18	2,3 (2 ² 3,4 4,5 27 	220 0 145 141 1661 1672 29	91 0 9. 13 21 18 17 -	3 6 .4 5 0	2,3 C 24 34 5,4 4,5 27	20) 15 11 61 72 29 0.46
RFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 (4F 5-1 5-2-1 5-2-2	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump	in in in in in in in in in ft/min ft/min	mm mm mm mm mm mm mm	91. 0 9.6 13. 21: 18: 17	3 6 4 5 0	2,3 (2 ² 3 ⁴ 5,4 4,5	220) 45 41 661 672 29	91 0 9. 13 21 18	3 6 .4 5 0	2,3 C 24 344 5,4 4,5	20) 15 11 61 72 29
PERFORMANCE =	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r 4F 5-1 5-2-1 5-2-2 5-2-3 5-3	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load	in in in in in in in fl/min ft/min ft/min	mm mm mm mm mm mm mm km/h m/s m/s	91. 0 9.6 13. 21: 18: 17 - 81 106 22,200	3 6 4 5 0 18 91 95 23,200	2,3 (2 ² 3,4 5,4 4,5 27 - 0.41 0.54	220 0 145 41 1661 572 29 - - 0.46 0.48	91 0 9. 13 21 18 17 - 81 106 22,200	3 6 .4 5 0 18 91 95 23,100	2,3 C 24 34 5,4 4,5 27 - 0.41 0.54	20 0 145 141 661 772 29 0.46 0.48
RFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r 4F 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load	in i	mm mm mm mm mm mm mm km/h m/s m/s m/s kN	91. 0 9.6 13. 21: 18: 17 - 81 106	3 6 4 5 0 18	2,3 (1) 24 34 5,4 4,5 27 	29 0.46 0.46 0.48 103	91 0 9. 13 21 18 17 - 81 106	3 6 .4 5 0 18	2,3 0 24 34 5,4 4,5 27 	20) 155 111 661 772 29 0.46 0.48 103
RFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r 4F 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5 5-6	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load	in i	mm mm mm mm mm mm km/h m/s m/s m/s kN kN	91. 0 9.6 13. 21: 18: 17 - 81 106 22,200	3 6 4 5 0 18 91 95 23,200 26,100	2,3 (1) 24 34 5,4 4,5 27 	29 0.46 0.46 0.48 103	91 0 9. 13 21 18 17 - 81 106 22,200	91 95 23,100 26,000	2,3 () 24 34 5,4 4,5 27 	20) 15 11 661 772 29 0.46 0.48 103
PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r 4F 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5 5-6 5-7 5-8	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Gradeability - 1 mph (1.6 km/h), with/without load	in i	mm mm mm mm mm mm km/h m/s m/s m/s kN kN	91. 0 9.6 13. 21: 18: 17 - - 81 106 22,200	3 6 4 5 0 18 91 95 23,200 26,100 38/3	2,3 (1) 24 34 5,4 4,5 27 	29 0.46 0.46 0.48 103	91 0 9. 13 21 18 17 - 81 106 22,200	91 95 23,100 26,000 38/3	2,3 () 24 34 5,4 4,5 27 	20) 15 11 661 772 29 0.46 0.48 103
PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r 4F 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5 5-6 5-7 5-8	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load	in i	mm mm mm mm mm mm km/h m/s m/s m/s kN kN	91. 0 9.6 13. 21: 18: 17 - - 81 106 22,200	3 6 4 5 0 18 91 95 23,200 26,100 38/3	2,3 (1) 24 34 5,4 4,5 27 	29 0.46 0.46 0.48 103	91 0 9. 13 21 18 17 - 81 106 22,200	91 95 23,100 26,000 38/3	2,3 () 24 34 5,4 4,5 27 	20) 15 11 661 772 29 0.46 0.48 103
PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 r 4F 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5 5-6 5-7 5-8 r 3: Cumn	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load Mins QSB 6.7L	in i	mm mm mm mm mm mm mm km/h m/s m/s m/s kN kN	91. 0 9.6 13. 21: 18: 17 - - 81 106 22,200 25,100	3 6 4 5 0 18 91 95 23,200 26,100 38/3 44/3	2,3 (2 ² 3 ⁴ 5,4 4,5 27 	220 0 45 41 46 61 672 29 0.46 0.48 103 116	91 0 9. 13 21 18 17 - - 81 106 22,200 25,100	91 95 23,100 26,000 38/43/3	2,3 () 24 3,4 5,4 4,5 27 	20 0 145 141 1661 172 29 0.46 0.48 103 116
CE = PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 5-1 5-2-1 5-2-2 5-2-3 5-5 5-6 5-7 5-8 r 3: Cumn 5-2-1 5-2-1 5-2-2	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load nins QSB 6.7L Travel speed, with/without load	in i	mm mm mm mm mm mm mm km/h m/s m/s m/s kN kN kN	91. 0 9.6 13. 21: 18: 17 - - 81 106 22,200 25,100	3 6 4 5 0 18 91 95 23,200 26,100 38/3 44/3	2,3 (2 ² 3 ⁴ 5,4 4,5 27 	220 0 45 41 46 61 672 29 0.46 0.48 103 116	91 0 9. 13 21 18 17 - - 81 106 22,200 25,100	91 95 23,100 26,000 38/43/3	2,3 () 24 3,4 5,4 4,5 27 	20 0 145 141 1661 172 29 0.46 0.48 103 116
CE = PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 74F 5-2-1 5-2-2 5-2-3 5-5 5-6 5-7 5-8 73: Cumn 5-2-1	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load nins QSB 6.7L Travel speed, with/without load Lifting speed, with/without load Lifting speed, with/without load	in i	mm mm mm mm mm mm mm km/h m/s m/s kN kN kN km/h	91. 0 9.6 13. 21: 18: 17 - 81 106 22,200 25,100	3 6 4 5 0 18 91 95 23,200 26,100 38/3 44/3	2,3 (24 34 5,4 4,5 27 	220 0 45 41 46 41 661 672 29 0.46 0.48 103 116	91 0 9. 13 21 18 17 	91 95 23,100 26,000 38/43/5	2,3 () 24 344 5,4 4,5 27 	20 0 145 141 1661 172 29 0.46 0.48 103 1116
PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 5-1 5-2-1 5-2-2 5-2-3 5-5 5-6 5-7 5-8 r 3: Cumn 5-2-1 5-2-1 5-2-2	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load nins QSB 6.7L Travel speed, with/without load - 90cc pump Lifting speed, with/without load Lifting speed, with/without load - 111cc pump	in i	mm mm mm mm mm mm mm km/h m/s m/s kN kN kN km/h m/s	91. 0 9.6 13. 21: 18: 17 - 81 106 22,200 25,100	3 6 4 5 0 18 91 95 23,200 26,100 38/3 44/3	2,3 (24 34 5,4 4,5 27 	220 0 45 41 46 41 661 672 29 0.46 0.48 103 116	91 0 9. 13 21 18 17 	91 95 23,100 26,000 38/43/5	2,3 () 24 344 5,4 4,5 27 	20 0 145 141 1661 172 29 0.46 0.48 103 1116
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CE = PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 74F 5-2-1 5-2-2 5-2-3 5-5 5-6 5-7 5-8 73: Cumn 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5-5 5-6 5-7 5-8	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load Inins QSB 6.7L Travel speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load	in i	mm mm mm mm mm mm mm km/h m/s m/s kN kN kN kN/s m/s m/s m/s	91. 0 9.6 13. 21: 18: 17 - - 81 106 22,200 25,100	3 6 4 5 0 18 91 95 23,200 26,100 38/3 44/3	2,3 (24 34 5,4 4,5 27 	220 0 45 41 461 672 29 0.46 0.48 103 116	91 0 9. 13 21 18 17 	91 95 23,100 26,000 38/3 43/3	2,3 () 24 344 5,4 4,5 27 0.41 0.54 99 112 33 33 27 - 0.36 - 0.54	20 0 145 141 1661 172 29 0.46 0.48 103 1116
CE = PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 5-1 5-2-1 5-2-2 5-2-3 5-5 5-6 5-7 5-8 73: Cumn 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5-5 5-6 5-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-9 5-9 5-9 5-9 5-9 5-9 5-9 5-9	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load nins QSB 6.7L Travel speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load	in i	mm mm mm mm mm mm mm mm km/h m/s m/s kN kN kN kN/s kN/s kN/s kN/s kN/s kN/	91. 0 9.6 13. 21: 18: 17 - 81 106 22,200 25,100 17 - 71 - 106 21,000	3 6 4 5 0 18 91 95 23,200 26,100 38/3 44/3 18 79 94 22,000	2,3 (24 34 5,4 4,5 27 	220 0 45 41 461 672 29 0.46 0.48 103 116	91 0 9. 13 21 18 17 	91 95 23,100 26,000 38/43/3 18 79 94 21,900	2,3 () 24 344 5,4 4,5 27 0.41 0.54 99 112 33 33 27 - 0.36 - 0.54 93 105	20 0 145 141 1661 172 29 0.46 0.48 103 1116 29 0.40
CE = PERFORMANCE	4-25-1 4-25-2 4-30 4-31 4-32 4-34 4-35 5-1 5-2-1 5-2-2 5-2-3 5-5 5-6 5-7 5-8 73: Cumn 5-1 5-2-1 5-2-2 5-2-3 5-3 5-5-5 5-6 5-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-8 7-7 5-9 5-9 5-9 5-9 5-9 5-9 5-9 5-9	Fork spread, min (in-in) Fork spread, max (out-out) Sideshift Ground clearance, under mast w/o load Ground clearance, center of wheelbase Minimum aisle width (add load length & clearance) Outside turning radius Travel speed, with/without load Lifting speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - stall, with/without load Gradeability - 1 mph (1.6 km/h), with/without load Gradeability stall, with load/without load Inins QSB 6.7L Travel speed, with/without load - 90cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 111cc pump Lifting speed, with/without load - 126cc pump Lowering speed, with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load Drawbar pull - 1 mph (1.6 km/h), with/without load	in i	mm mm mm mm mm mm mm mm km/h m/s m/s kN kN km/h m/s m/s km/h km/s kn/s kn/s kn/s kn/s kn/s kn/s kn/s kn	91. 0 9.6 13. 21: 18: 17 - 81 106 22,200 25,100 17 - 71 - 106 21,000	3 6 4 5 0 18 91 95 23,200 26,100 38/3 44/3 18 79 94 22,000 24,700	2,3 (24 34 5,4 4,5 27 	220 0 45 41 461 672 29 0.46 0.48 103 116	91 0 9. 13 21 18 17 	91 95 23,100 26,000 38/43/5 18 79 94 21,900 24,600	2,3 (24 34 5,4 4,5 27 	20 0 145 141 1661 172 29 0.46 0.48 103 1116 29 0.40

POWERTRAINS

PO	WERTRAI	ns							
	1-1	Manufacturer							
GENERA	1-2	Model designation				H300-360XD	(S), H210-250XD48		
	1-3	Powertrain/drivetrain			Die	sel	Die	esel	
	7-1	Engine Manufacture/model			Cummins/	QSB 6.7L	Cummins	/QSB 6.7L	
	7-1a	EPA Tier Compliance			Tier 3/St	age IIIA	Tier 4/	Stage IV	
	7-2	Engine power output - rated	hp	kW	156@2300	116@2300	164@2300	122@2300	
	7-2-1	Engine power output - peak	hp	kW	156@2300	116@2300	168@2100	125@2100	
	7-3	Rated speed	rpm		2,300		2,3	300	
ш	7-3a	Peak speed	rpm		2,3	00	2,	100	
ENGIN	7-3-1	Engine torque @ rpm (1/min)	lb-ft	N-m	440@1500	597@1500	540@1500	732@1500	
	7-4	Number of cylinders/displacement	#/in3	#/cm3	6/409	6/6700	6/409	6/6700	
	X	Turbocharger	Type		Wastegate, Water cooled		Variable Geometry, Water cooled		
	7-8	Alternator output	Amps		120		120		
	7-9	Electrical system voltage	V		24	24		24	
	7-10	Battery voltage/nominal capacity	V/Ah		24/1	102	24/102		
	8-0	Drive control/transmission	Type		Powershift Tr	ransmission	Powershift Transmission		
	8-1	Type of drive unit	T	ype	Torque C	onverter	Torque (Converter	
	8-2	Transmission manufacturer/type	Type		ZF/3WG161		ZF/3V	VG161	
Æ	8-2-1	Transmission speeds forward/reverse	#		3/3		3	3/3	
DRIV	8-3	Wheel drive/drive axle manufacturer/type	Ty	ype	Kessler/D81		Kessler/D81		
	8-4	Service brake	T	ype	Oil immersed (wet) disc		Oil immerse	ed (wet) disc	
	8-5	Parking brake	Ty	ype	Spring apply, dry disc on drive axle			g apply, n drive axle	
	10-1	Operating pressure for attachments	psi	MPa	3,263	23	3,263	23	
	10-2	Oil flow for attachments	gpm	I/m	26.4	100	26.4	100	
	10-3	Hydraulic oil tank, capacity	gal	- I	32	121	32	121	
SC	10-4	Fuel tank, capacity	gal	1	40	151	40	151	
◙	10-4-1	DEF tank, capacity	gal	- I	N/A	N/A	5	19	
	10-5	Steering design	T	ype	Hydraulic pov	wer steering	Hydraulic po	ower steering	
	10-6	Number of steering rotation		#	5			5	
	10-8	Towing coupling, type DIN	T	ype	Pi	n	P	Pin	

NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your $\mbox{{\sc Hyster}}^{\mbox{\tiny \ensuremath{\mathfrak{g}}}}$ truck.

All capacities are according to ANSI B56.

Specification data is based on VDI 2198.



Safety: This truck conforms to the current ANSI requirements.

NOTICE:

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products are subject to change without notice.

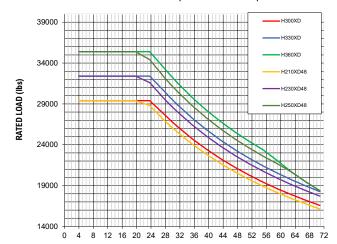
Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equipment on this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

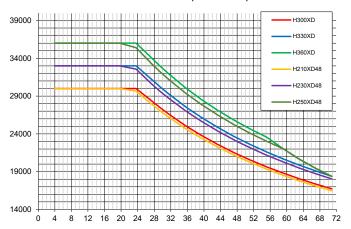
NOTE: Specifications, unless otherwise listed, are for a standard truck without optional equipment.

CAPACITY RATINGS

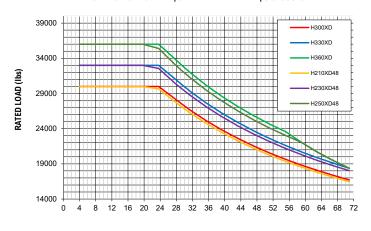
RATED LOAD VS. LOAD CENTER | DF-SS-FP CARRIAGE | U.S. CUSTOMARY



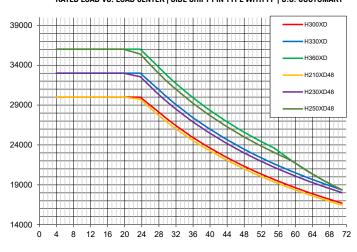
RATED LOAD VS. LOAD CENTER | STD PIN TYPE | U.S. CUSTOMARY



RATED LOAD VS. LOAD CENTER | STD PIN TYPE WITH FP | U.S. CUSTOMARY



RATED LOAD VS. LOAD CENTER | SIDE SHIFT PIN TYPE WITH FP | U.S. CUSTOMARY



LOAD CENTER (in)

LOAD CENTER (in)

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSB 6.7L Tier 4F diesel engine 164 hp (122 kW)*	х	
Cummins QSB 6.7L Tier 3 diesel engine 156 hp (116 kW)*	Χ	
Tier 4/Stage IV compliant	Х	
Tier 3/Stage IIIA compliant	Х	
Wastegate turbocharger, water cooled - Tier 3/Stage IIIA	х	
Variable geometry turbocharger, water cooled - Tier 4	Х	
Delayed engine shutdown for turbo cooldown		х
On-demand cooling fan	Х	
120 amp alternator	х	
Performance modes selectable in Integrated Performance Display	Χ	
Powertrain protection system	Х	
Heavy duty air intake	Х	
Heavy duty air intake (raised)		х
Low mount exhaust (below chassis)	Х	
High mount exhaust		Х
ZF Transmission WG161 3-speeds fwd/3-speeds reverse		
auto-shifting	Х	
Kessler D81 drive axle with wet disc brakes	Х	
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable		Х
Travel speed limiter - loaded (adjustable)		Х
12.00 - 20 20PR Trelleborg pneumatic bias ply drive and steer tires	Х	
12.00 - R20 Michelin XZM radial drive and steer tires		Х
12.00 - R20 Trelleborg radial drive and steer tires		Х
12.00 - 20 Pneumatic shaped solid drive and steer tires		Х
LIFT	STD	OPT
111cc Dual Pump Hydraulic System*	Х	
126cc Dual Pump Hydraulic System*	Х	
On-Demand Load Sensing Hydraulic System	Х	
Automatic throttle-up when lifting (in neutral or inching)	Х	
Variable lap mast for low roller forces	Х	
2-stage non free lift mast	Х	
2-stage full free lift mast		Х
3-stage full free lift mast		Х
Mast tilt - 5° forward/6° back		Х
Mast tilt - 5° forward/12° back		Х
Mast tilt - 15° forward/10° back		Х
Mast tilt - 15° forward/12° back	Х	
		х
Mast tilt - 20.5° forward/7° back		^
Mast tilt - 20.5° forward/7° back Mast Tilt Indicator - mechanical		Х
Mast Tilt Indicator - mechanical		х
Mast Tilt Indicator - mechanical Hydraulic Accumulator Pressure compensated lowering Hydraulic system temperature protection with performance		X X X
Mast Tilt Indicator - mechanical Hydraulic Accumulator Pressure compensated lowering Hydraulic system temperature protection with performance de-rate		x x x
Mast Tilt Indicator - mechanical Hydraulic Accumulator Pressure compensated lowering Hydraulic system temperature protection with performance de-rate HANDLING	STD	X X X
Mast Tilt Indicator - mechanical Hydraulic Accumulator Pressure compensated lowering Hydraulic system temperature protection with performance de-rate HANDLING 98.3" (2496 mm) pin type carriage with mechanical fork locks	STD X	x x x
Mast Tilt Indicator - mechanical Hydraulic Accumulator Pressure compensated lowering Hydraulic system temperature protection with performance de-rate HANDLING 98.3" (2496 mm) pin type carriage with mechanical fork locks 98.3" (2496 mm) pin type carriage with simultaneous and		x x x
Mast Tilt Indicator - mechanical Hydraulic Accumulator Pressure compensated lowering Hydraulic system temperature protection with performance de-rate HANDLING 98.3" (2496 mm) pin type carriage with mechanical fork locks		X X X OPT

HANDLING (continued)	STD	OPT
98.4" (2500 mm) pin type apron-style sideshift carriage	OID	OI I
with simultaneous fork positioner		Х
98.3" (2496 mm) pin type apron-style sideshift carriage with simultaneous and independent fork positioner		х
98.3" (2498 mm) QD hook type dual function sideshift carriage with simultaneous and Independent fork positioner		х
98.3" (2498 mm) QD hook type dual function sideshift carriage		х
with simultaneous fork positioner and 2 auxiliary functions		^
72" (1824 mm) high load backrest		Х
80" (2040 mm) high load backrest		Х
98" (2500 mm) high load stabilizer (for lumber applications)		Х
72" long x 3.5" thick x 7.9" wide (1830 mm x 90 mm x 200 mm) forks	Х	
Pin type forks (various sizes)		Х
Pin type forks for lumber applications		Х
Hook type quick disconnect DFSSFP forks (various sizes)		Х
ERGONOMICS	STD	OPT
Open operator compartment (without doors & screens)	X	
Enclosed operator cabin		Х
Manual tilt operator compartment for service	X	
Powered tilt operator compartment for service		Х
Isolated cabin mounting for low noise and vibration	X	
Operator presence system	Х	
Mechanical suspension seat	X	
Air suspension seat		Х
Deluxe air suspension seat		Х
Low backrest seat	Х	
High backrest seat		Χ
Armrest on left side		Х
Cloth seat cover		Х
Vinyl seat cover	Х	
Seat heating		Χ
Seat ventilation		Х
2-point high visibility seatbelt	Χ	
Lateral seat sliding mechanism		Х
Floor mat	Χ	
Coat hook	Х	
Front, top and rear wipers		Χ
"H"-pattern front wiper (enclosed operator cabin)		Х
"I"-pattern front wiper (enclosed operator cabin)		Χ
Laminated glass operator compartment front window		Х
Tinted operator compartment windows (doors, rear and top window)		х
Tinted operator compartment top window		Х
Lexan top window		Х
Plexiglass shield in front of front window		х
Wire mesh installed on top of operator compartment		X
Vertical steel bar front window guard		Х
Operator shield wire mesh		Х
7" Integrated Performance Display	х	
• ,		

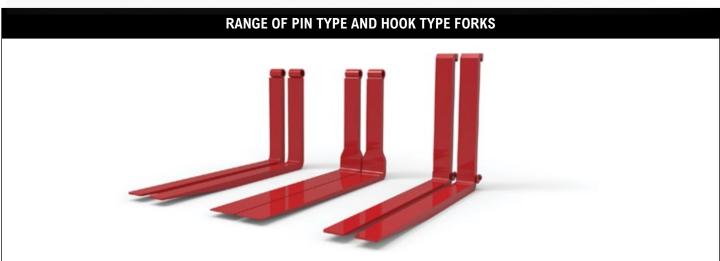
FEATURES AND OPTIONS

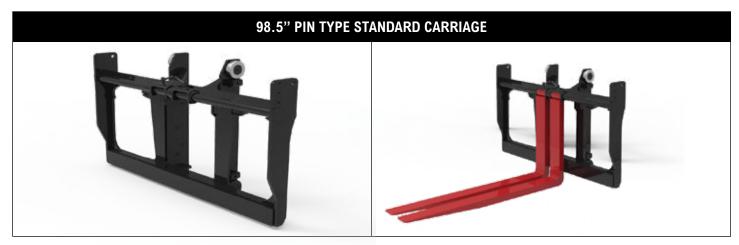
ERGONOMICS (continued)	STD	OPT
Touchpoint™ mini levers hydraulic control integrated in Control Arm	Х	
Joystick hydraulic control integrated in Control Arm		Х
Steering wheel without spinner knob	Х	
Steering wheel with spinner knob		Х
Directional control lever on steering column	Х	
Hyster Monotrol® pedal directional control		Х
Directional control on mini-levers or joystick		Х
Park brake - push button applied	Х	
Park brake - automatically applied		х
Heater with adjustable speed fan (enclosed operator cabin)		Х
Telescoping & tilting steering column	Х	
USB outlet inside armrest	Х	
24-12 volt DC converter with 1 socket and 2 USB outlets	Х	
24-12 volt DC converter with 2 sockets and 2 USB outlets		Х
Air conditioning		Х
Automatic climate control		Х
Reading light		Х
Sun shades on top and rear		X
Sun visors front window		X
Trainer seat		X
Recirculation fan		X
Additional recirculation fan		X
Accessory mounting bracket on cab front right pillar		X
Document holder on cab front right pillar		X
Heated top- and/or rear window		X
Radio preparation set-up (wiring, two speakers and antenna)		X
VISIBILITY	STD	OPT
		UPI
Steel bars on top of cab (open operator compartment)	X	
Top window with armored glass (enclosed operator cabin)	Х	
Steel bars under armored glass top window (enclosed operator cabin)		Х
Interior wide angle mirrors	Х	
Exterior mirrors mounted to cab	,	х
Rear view camera system		Х
Radar object detection system		X
Halogen work lights		X
High Performance LED work lights		X
Two head lights mounted on front fenders		X
Four mast mounted work lights		X
Four cabin mounted work lights		X
Two rearward work lights mounted on the cabin		X
LED stop/tail/brake lights	v	^
, ,	Х	v
Turn signals, hazard & marker lights (LED)		Х

OPERATION	STD	OPT
Air horn 112 dBA	OID	Х
Electric horn 105 dBA	Х	^
Visible alarm – Amber strobe light, ignition activated		Х
Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting		х
Audible alarm – Reverse direction white noise		х
Forward/reverse motion alarm		Х
Blue LED spotlight – rear/front and rear		х
Air conditioning shut-off with open door		Х
Automatic engine shutdown with timer		Х
Lockable battery disconnect switch		Х
Battery jump start connector (NATO plug)		Х
Truck start with key switch and start button	Х	
Operator password (display) for truck start	Х	
Seatbelt interlock for truck start		Χ
Power distribution group with fuses	Х	
Fuses below 30 amps replaced by electric circuit breakers		Χ
Non-lockable fuel cap	Х	
Lockable fuel cap		Χ
Fuel strainer in fuel filler neck		Х
Hyster Tracker™ wireless asset management system	Х	.,
Hyster Tracker™ wireless asset management - access/verification Hyster Tracker™ wireless asset management - monitoring		X
Auto greasing system for base truck		X
24 volt electrical system	Х	^
Engine block heater 110 or 240 volt	X	х
Steer wheel lug nut protection		Х
Front mud flaps		х
Rear mud flaps		Х
Lifting eyes - 2 front and 2 rear		х
Wire mesh belly pan		Х
Wire mesh and plates belly pan		Х
APPEARANCE	STD	OPT
Second capacity plate		Х
Hyster yellow paint base truck	Х	
Special paint base truck		Х
Operator compartment special paint (outside only)		Χ
Hazard warning striping on counterweight	OFF	X
SUPPLEMENTAL	STD	OPT
Literature package	Х	
Operator's manual	Х	
CE certification	.,	Х
U.L. Label - Standard Construction Warranty: 12 months /2,000 hours parts & labor manufacturer's	Х	
warranty*	Х	
Warranty: 12 months/2,000 hours parts manufacturer's warranty*	Х	

^{*}Standard or Optional in select markets or on select models. Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.







98.5" PIN TYPE APRON STYLE SIDESHIFT CARRIAGE WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER (FOR LUMBER APPLICATIONS)





98.5" PIN TYPE CARRIAGE WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER





98.5" PIN TYPE APRON STYLE SIDESHIFT CARRIAGE





98.5" QD HOOK TYPE DUAL FUNCTION SIDESHIFT WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER









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