

Traction Machines-Geared**Overhead Traction Machines**

H-W offers a complete line of heavy duty traction machines with speeds up to 500 f.p.m. The smooth running efficiency of tapered roller bearings, plus the fact that each machine is thoroughly tested before shipment, insures the best possible installation at the lowest possible cost.

Right Hand Arrangement
Shown, Left Hand
Arrangement Available



Shown with optional
rope gripper mount

5 MODELS TO CHOOSE FROM:

MACHINE	MAXIMUM SHAFT LOAD		MACHINE WEIGHT LESS MOTOR	
	lbs	kgs	lbs	kgs
#34	11,000	4,990	1,200	544
#44	20,000	9,072	1,600	726
#54	26,000	11,793	2,300	1,043
#64	33,000	14,969	3,500	1,588
#74	60,000	27,216	5,500	2,495

Standard Equipment:

(at no extra cost)

- Direct Current Brake: #34 thru #64 Machines Furnished with Disc Brake, #74 Furnished with Drum Brake Only
- Motor Coupling Bored with Keyway
- Fabricated Steel Base
- Demountable Traction Sheave
- Demountable Bronze Gear
- Steel Worm on Integral Shaft
- Motor Mounting Pads
- Customer Name on Housing Cover
- Supplied w/ Oil

Optional Equipment:

- Drip Pans
- Mileage Recorder and Drive Assembly
- Brake Switch
- Sheave Guard
- Machine Isolation Assembly (Standard or Seismic)
- Motor Mounting in Field or by H-W
- Manual Brake Release
- Drum Brake
- Rope Gripper Mounting Provisions
- VVVF-AC Hoist Motor
- Machine Block-Up Assy.

When Ordering Overhead Traction Machines, Please Specify the Following:

- Rated Car Capacity • Rated Car Speed • Roping (1:1 or 2:1)
- Hand of Machine • Number and Size of Hoist Ropes
- Pitch of Hoist Ropes (If Deflector Exists) • Hoist Motor Manufacturer (Motor Prints Required) • Horsepower and R.P.M.
- Power Supply • Motor Mounting in Field or by H-W
- Name to be put on Upper Housing • Isolation Dimensions from Centerline of Sheave to Centerline of Beams on Either Side
- Other Optional Equipment

H-W EQUIPMENT

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HORSEPOWER & MACHINE SELECTION CHARTS

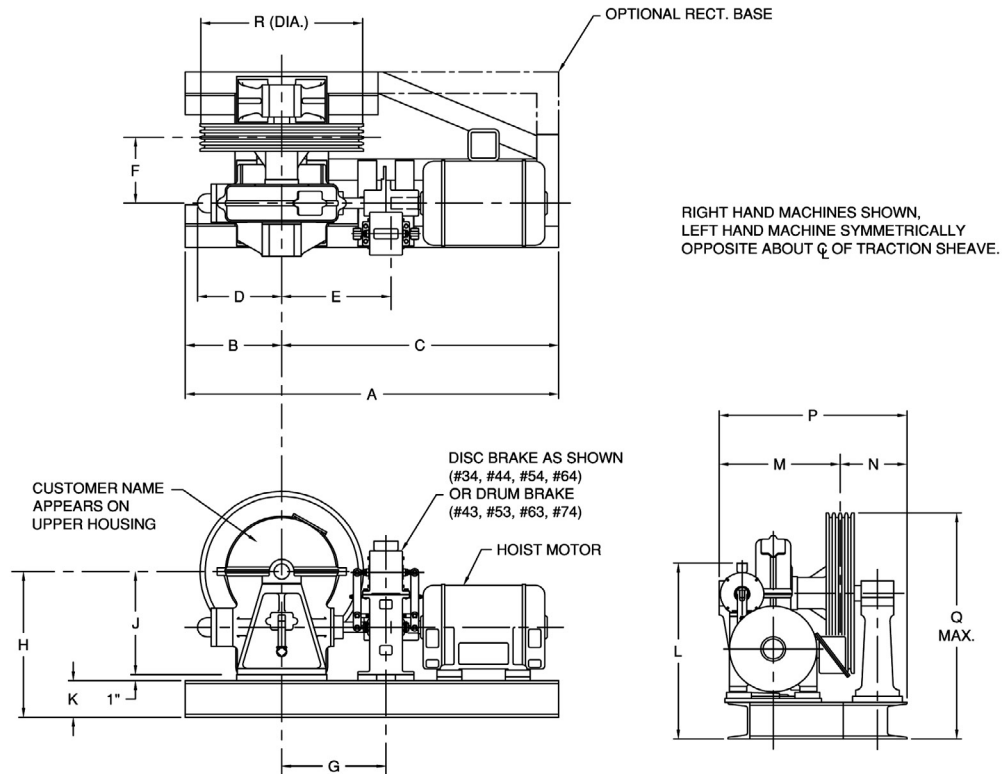
1:1 ROPING, 40% COUNTERBALANCE														
SPEED: CAR = MACHINE														
fpm	50	75	100	125	150	200	250	300	350	400	450	500		
m/s	0.25	0.38	0.51	0.64	0.76	1.02	1.27	1.52	1.78	2.03	2.29	2.54		
#34	lbs	kgs												
	1000	454	3	3	5	5	5	7.5	10	10	12.5			
	1500	680	3	5	7.5	7.5	7.5	10	12.5	12.5	15			
	2000	907	5	7.5	7.5	10	10	12.5	15	20	20	25	30	30
#43/44	2500	1134	5	7.5	10	12.5	12.5	15	20	25	25	30	40	40
	3000	1361	7.5	10	12.5	12.5	15	20	25	25	30	40	40	50
	3500	1588	7.5	10	12.5	15	20	25	25	30	40	40	50	50
	4000	1814	10	12.5	15	20	20	25	30	40	40	50	60	60
#53/54	4500	2041	10	12.5	20	20	25	30	40	40	50	50	60	75
	5000	2268	12.5	15	20	25	25	30	40	50	50	60	75	75
	6000	2722	12.5	20	25	30	30	40	50	50	60	75		
	7000	3175	15	20	25	30	40	50	60	60	75			
#63/64	8000	3629	20	25	30	40	40	50	60	75	75			
	10000	4536				40	50	50	60	75				
	12000	5443				40	50	60	75					
	15000	6804				50	75	75						
#74	20000	9072				75								
	CAPACITY													
	CAR = MACHINE													

2:1 ROPING, 40% COUNTERBALANCE															
SPEED: Car = 1/2 Machine															
Car		fpm	25	50	75	100	125	150	175	200	225	250			
		m/s	0.13	0.25	0.38	0.51	0.64	0.76	0.89	1.02	1.14	1.27			
Machine		fpm	50	100	150	200	250	300	350	400	450	500			
		m/s	0.25	0.51	0.76	1.02	1.27	1.52	1.78	2.03	2.29	2.54			
		lbs	kgs	lbs	kgs										
#34	1000	454	2000	907	3	5	7.5	7.5	10	10	12.5				
	1500	680	3000	1361	3	7.5	10	10	12.5	15	20				
	2000	907	4000	1814	5	7.5	12.5	15	20	20	20	25	30	30	
	2500	1134	5000	2268	5	10	15	20	20	25	30	30	40	40	
#43/44	3000	1361	6000	2722	7.5	12.5	20	20	25	30	40	40	40	50	
	3500	1588	7000	3175	7.5	12.5	20	25	30	40	40	50	50	60	
	4000	1814	8000	3629	10	15	25	30	40	40	50	50	60	60	
	4500	2041	9000	4082	10	20	25	30	40	50	50	60	60	75	
#53/54	5000	2268	10000	4536	12.5	20	30	40	40	50	60	60	75	75	
	6000	2722	12000	5443	12.5	25	40	40	50	60	60	75			
	7000	3175	14000	6350	15	25	40	50	60	60	75				
	8000	3629	16000	7257	20	30	50	60	75	75					
#63/64	10000	4536	20000	9072				40	60	75					
	12000	5443	24000	10886				40	75						
	15000	6804	30000	13608				50							
	20000	9072	40000	18144				75							
#74	MACHINE CAPACITY			CAR CAPACITY											
	1/2 CAR = MACHINE														

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DIMENSIONS: INCHES [MILLIMETERS]



Mach.	Brake	A	B	C	D	E	F	G
#34 O.H.	#92 Disc	48 [1219]	11 [279]	37 [940]	10 7/8 [276]	13 11/16 [378]	8 [203]	12 [305]
#44 O.H.	#102 Disc	60 [1524]	15 1/2 [394]	44 1/2 [1130]	13 7/8 [352]	17 9/16 [446]	10 3/4 [273]	16 3/4 [425]
#43 O.H.	#90 Drum	60 [1524]	15 1/2 [394]	44 1/2 [1130]	13 7/8 [352]	17 3/8 [441]	10 3/4 [273]	16 3/4 [425]
#54 O.H.	#102 Disc	66 [1676]	17 1/2 [445]	48 1/2 [1232]	14 3/4 [375]	17 3/4 [451]	12 3/4 [324]	15 5/8 [397]
#53 O.H.	#100 Drum	66 [1676]	17 1/2 [445]	48 1/2 [1232]	14 3/4 [375]	19 9/16 [497]	12 3/4 [324]	19 [483]
#64 O.H.	#112 Disc	72 [1829]	20 [508]	52 [1321]	18 3/8 [467]	19 7/8 [505]	13 3/8 [340]	17 5/8 [448]
#63 O.H.	#110 Drum	78 [1981]	20 [508]	58 [1473]	18 3/8 [467]	24 3/8 [619]	13 3/8 [340]	23 3/8 [594]
#74 O.H.	#120 Drum	84 [2134]	20 [508]	64 [1626]	19 5/16 [491]	24 3/4 [629]	18 [457]	23 3/4 [603]

Mach.	Brake	H	J	K	L	M	N	P	Q	R (Dia.)	
#34 O.H.	#92 Disc	21 7/8 [556]	14 7/8 [378]	6 [152]	25 5/8 [652]	15 3/5 [396]	8 1/4 [210]	23 5/8 [600]	34 3/8 [873]	20 [508]	25 [635]
#44 O.H.	#102 Disc	23 7/8 [492]	16 7/8 [429]	6 [152]	28 7/8 [733]	20 [508]	10 3/4 [273]	30 3/4 [781]	37 7/8 [962]	20 [508]	28 [711]
#43 O.H.	#90 Drum	23 7/8 [492]	16 7/8 [429]	6 [152]	36 3/4 [933]	20 [508]	10 3/4 [273]	30 3/4 [781]	37 7/8 [962]	20 [508]	28 [711]
#54 O.H.	#102 Disc	26 3/4 [679]	19 3/4 [502]	6 [152]	30 5/8 [778]	23 3/4 [603]	15 [381]	38 3/4 [984]	41 3/4 [1060]	20 [508]	30 [762]
#53 O.H.	#100 Drum	26 3/4 [679]	19 3/4 [502]	6 [152]	39 [990]	23 3/4 [603]	15 [381]	38 3/4 [984]	41 3/4 [1060]	20 [508]	30 [762]
#64 O.H.	#112 Disc	33 1/4 [845]	24 1/4 [641]	8 [203]	34 1/2 [876]	25 1/2 [678]	16 1/8 [410]	41 5/8 [1060]	51 1/4 [1057]	25 [635]	38 [965]
#63 O.H.	#110 Drum	33 1/4 [845]	24 1/4 [641]	8 [203]	45 [1143]	25 1/2 [678]	16 1/8 [410]	41 5/8 [1060]	51 1/4 [1057]	25 [635]	38 [965]
#74 O.H.	#120 Drum	40 13/16 [1037]	29 13/16 [757]	10 [254]	46 5/8 [1184]	31 3/4 [806]	16 [406]	47 3/4 [1213]	59 13/16 [1519]	32 [813]	38 [965]

No. 74 Machine is supplied with a Drum Brake instead of Disc Type Shown