

H-W EQUIPMENT

Traction Machines-Geared

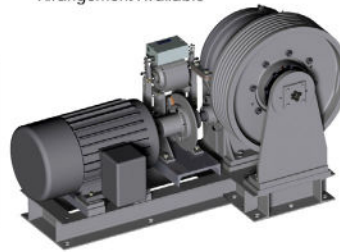
Basement Set Traction Machines (STD)

These machines are designed for installation where there is insufficient room over the hatch for an overhead machine. The Standard Basement Set Machine has a narrow steel outboard stand to allow the traction wheel to project into the hatch.

Right Hand Arrangement
Shown, Left Hand
Arrangement Available

4 MODELS TO CHOOSE FROM:

MACHINE	MAXIMUM SHAFT LOAD		MACHINE WEIGHT LESS MOTOR	
	lbs	kgs	lbs	kgs
#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)

- Steel Shaft Support Block
- Narrow Steel Outboard Stand
- Direct Current Brake: #44 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 Template
- Foundation Bolts and Pipe Spacers
- Motor Mounting in Field or by H-W
- Manual Brake Release
- Drum Brake
- Rope Gripper Mounting Provisions
- VVVF-AC Hoist Motor

When Ordering Standard Basement Set Traction Machines, Please Specify The Following:

- Rated Car Capacity • Rated Car Speed • Roping (1:1 or 2:1) • Hand of Machine • Number & Size of Hoist Ropes
- Hoist Motor Manufacturer (Motor Prints Required)
- Horsepower & R.P.M. • Power Supply • Motor Mounting in Field or by H-W • Name to be put on Upper Housing
- Other Optional Equipment

Traction Machines-Geared Basement Set Traction Machines (STD)

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
#43/44	lbs	kgs											
	1000	454	3	3	5	5	7.5	7.5	10	10	12.5	15	15
	1500	680	3	5	7.5	7.5	10	12.5	12.5	15	20	20	30
	2000	907	5	7.5	7.5	10	12.5	15	20	20	25	25	40
	2500	1134	5	7.5	10	12.5	15	20	25	25	30	40	40
	3000	1361	7.5	10	12.5	15	15	25	30	30	40	40	50
#53/54	3500	1588	7.5	10	15	20	20	25	30	40	40	50	60
	4000	1814	10	12.5	20	20	25	30	40	40	50	50	60
	4500	2041	10	15	20	25	25	40	40	50	50	60	75
#63/64	5000	2268	12.5	20	20	25	30	40	50	50	60	60	75
	6000	2722	12.5	20	25	30	40	50	50	60	75	75	
#7A	7000	3175	15	25	30	40	40	50	60	75	75		
	8000	3629	20	25	30	40	50	60	75	75			
	10000	4536			40	50	60	75					
	12000	5443			50	60	75						
15000	6804			60	75								
20000	9072			75									
CAPACITY													
CAR = MACHINE													

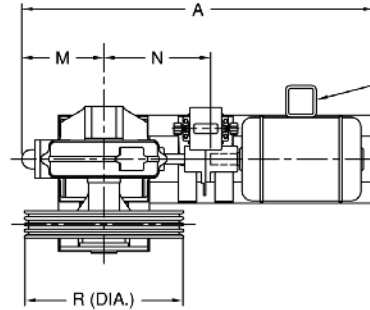
2:1 ROPING, 40% COUNTERBALANCE													
SPEED: Car = 1/2 Machine													
Car	fpm	25	50	75	100	125	150	175	200	225	250		
	m/s	0.13	0.25	0.38	0.51	0.64	0.76	0.89	1.02	1.14	1.27		
Machine	fpm	50	100	150	200	250	300	350	400	450	500		
	m/s	0.25	0.51	0.76	1.02	1.27	1.52	1.78	2.03	2.29	2.54		
#43/44	lbs	kgs	lbs	kgs									
	1000	454	2000	907	3	5	7.5	10	10	12.5	15	15	20
	1500	680	3000	1361	5	7.5	10	12.5	15	20	20	25	25
	2000	907	4000	1814	5	10	12.5	20	20	25	25	30	30
	2500	1134	5000	2268	7.5	12.5	15	20	25	30	30	40	40
	3000	1361	6000	2722	7.5	15	20	25	30	30	40	40	50
#53/54	3500	1588	7000	3175	10	20	25	30	30	40	40	50	50
	4000	1814	8000	3629	10	20	25	30	40	40	50	50	60
	4500	2041	9000	4082	10	20	30	40	40	50	50	60	75
#63/64	5000	2268	10000	4536	12.5	25	30	40	50	50	60	75	75
	6000	2722	12000	5443	15	30	40	50	60	60	75	75	
#7A	7000	3175	14000	6350	15	30	40	50	60	75	75		
	8000	3629	16000	7257	20	40	50	60	75				
	10000	4536	20000	9072		40	60	75					
	12000	5443	24000	10886		50	75						
15000	6804	30000	13608		60								
20000	9072	40000	18144		75								
MACHINE CAPACITY		CAR CAPACITY											
1/2 CAR = MACHINE													

H-W EQUIPMENT

Traction Machines-Geared

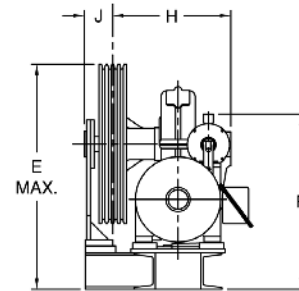
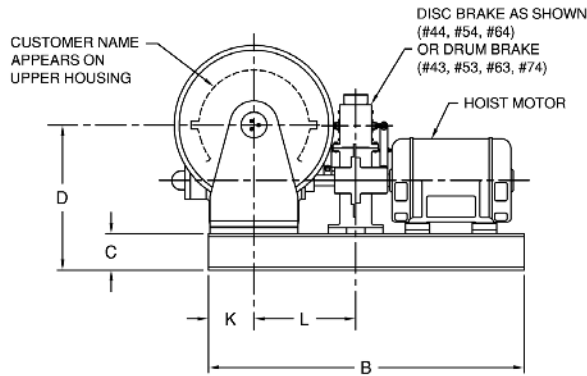
Basement Set Traction Machines (STD)

DIMENSIONS: INCHES [MILLIMETERS]



NOTE:
STANDARD LOCATION OF THE JUNCTION BOX IS ON THE RIGHT SIDE OF THE MOTOR AS SHOWN. THE JUNCTION BOX MAY BE LOCATED ON THE LEFT SIDE OF THE MOTOR IF REQUESTED BY THE CUSTOMER.

LEFT HAND MACHINE SHOWN. RIGHT HAND MACHINE SYMMETRICALLY OPPOSITE ABOUT ϕ OF TRACTION SHEAVE.



Mach.	Brake	A	B	C	D	E	F	H	J	K	L	M	N	R (Dia.)	
														Min.	Max.
#43 B.S.	#90 DRUM	58 3/8	52	6	23 7/8	37 7/8	36 3/4	20	5	7 1/2	16 3/4	13 7/8	17 3/8	20	28
		[1482]	[1321]	[152]	[606]	[962]	[933]	[508]	[127]	[191]	[425]	[352]	[441]	[508]	[711]
#44 B.S.	#102 DISC	58 3/8	52	6	23 7/8	37 7/8	28 7/8	20	5	7 1/2	16 3/4	13 7/8	17 9/16	20	28
		[1483]	[1321]	[152]	[606]	[962]	[733]	[508]	[127]	[191]	[425]	[352]	[446]	[508]	[711]
#53 B.S.	#100 DRUM	63 1/4	58	6	26 3/4	41 3/4	39	23 3/4	6 1/4	9 1/2	19	14 3/4	19 9/16	20	30
		[1607]	[1473]	[152]	[679]	[1060]	[991]	[603]	[159]	[241]	[483]	[375]	[497]	[508]	[762]
#54 B.S.	#102 DISC	63 1/4	58	6	26 3/4	41 3/4	30 5/8	23 3/4	6 1/4	9 1/2	15 5/8	14 3/4	17 3/4	20	30
		[1607]	[1473]	[152]	[679]	[1060]	[778]	[603]	[159]	[241]	[397]	[375]	[451]	[508]	[762]
#63 B.S.	#110 DRUM	73 1/4	66	8	33 1/4	51 1/4	45	25 1/2	7 3/4	11	23 3/8	18 1/4	24 3/8	25	38
		[1861]	[1676]	[203]	[845]	[1302]	[1143]	[648]	[197]	[279]	[594]	[464]	[619]	[635]	[965]
#64 B.S.	#112 DISC	73 1/4	66	8	33 1/4	51 1/4	34 1/2	25 1/2	7 3/4	11	17 5/8	18 1/4	19 7/8	25	38
		[1861]	[1676]	[203]	[845]	[1302]	[876]	[648]	[197]	[279]	[448]	[464]	[505]	[635]	[965]
#74 B.S.	#120 DRUM	82 11/16	76	10	40 11/16	59 11/16	46 5/8	31 3/4	10	12 1/2	23 3/4	19 5/16	24 3/4	32	38
		[2100]	[1930]	[254]	[1033]	[1516]	[1184]	[806]	[254]	[318]	[603]	[491]	[629]	[813]	[965]