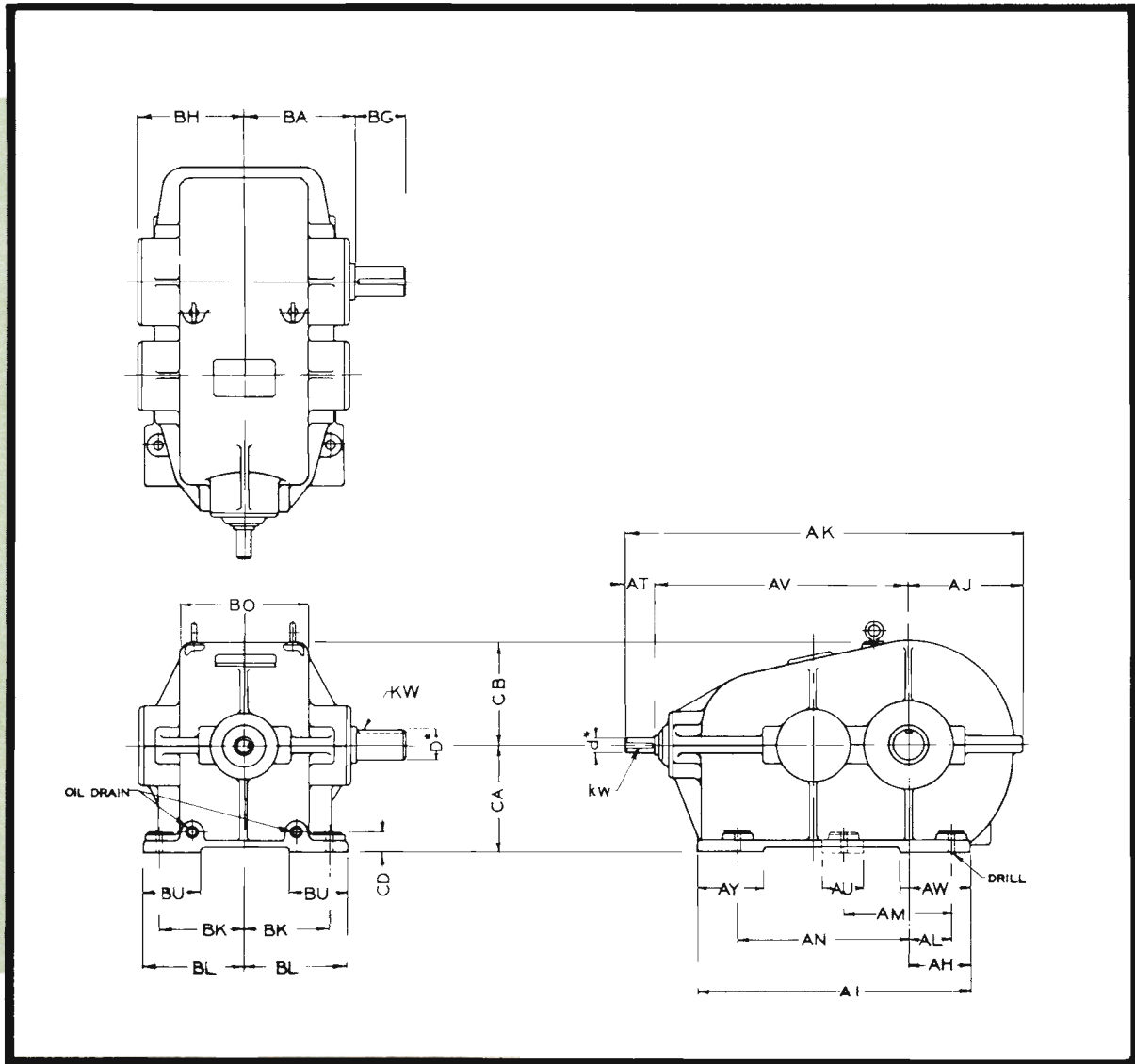


WESTERN GEAR SPEEDMASTER GEAR REDUCERS



OUTLINE DIMENSIONS — TYPE BH UNITS



DIMENSIONS IN INCHES

SIZE	AH	AI	AJ	AK	AL	AM	AN	AT	AU	AV	AW	AY	BA	BG	BH	BK	BL	BO	BU	CA	CB	CD	d	kw	D	KW	Dr.	Wt. Lbs.
BH - 109	2 1/2	12 1/4	6 3/8	25 1/4	1 1/2	-	8 3/8	2 1/2	-	16 3/8	3	3	7	3 3/4	6 7/8	5 1/4	6	7 1/2	3 1/4	6 1/4	5 11/16	1 1/8	1 1/4	1/4	2	1 1/2	1 1/2	325
BH - 114	3	14 3/4	7 3/8	28 5/8	2	-	10 1/4	3 1/4	-	18	4	3	8 1/4	4	8	6 3/8	7	9 3/4	3 1/2	7 9/16	6 9/16	1 3/8	1 1/2	1/2	2 1/2	3 3/8	3 3/4	400
BH - 133	5	20 3/8	9 3/4	35 1/2	4	-	13 7/8	3 1/2	-	22 1/4	5	4	8 3/4	5 1/4	8 3/4	7	8 3/8	11	3 7/8	9 1/4	8 3/8	1 1/2	2	1/2	3 1/8	3 3/4	3 3/4	650
BH - 157	6 1/4	24 1/2	11 11/16	43 3/16	4 3/4	10 7/8	17	3 3/4	4	27 3/4	6 3/8	4	11 1/4	5 1/2	10 1/2	8 3/8	9 3/8	13	5 3/8	11 1/8	10 3/8	1 1/2	2 1/4	1/2	3 3/4	7 3/8	3 3/4	1000
BH - 194	7 3/8	29 1/4	14	48 1/2	5 7/8	12 7/8	20	4 1/4	4	30 1/4	8	5	12	6 3/4	11 1/2	9 1/8	10 3/8	14 3/4	5 1/2	14	12 3/4	2	2 7/16	3/8	4 3/8	1	1 3/2	1800
BH - 252	9 1/4	36 3/4	16 1/2	60	6	15 1/2	25	4 3/4	5	38 3/4	5 3/4	5	13 1/2	8	14 1/8	11 1/4	13	17 3/4	4 3/4	17	15 3/8	2	3	3/4	5 1/2	1 1/4	1 3/2	2800
BH - 320	11	44 1/2	21 3/4	70	8 1/2	20 1/2	31	5 1/8	5 1/2	43 1/8	6	5	16 3/4	9 1/2	16 3/8	13	14 1/2	22	5 3/4	20	20 1/2	2	3 1/8	3/4	6 1/4	1 1/2	1 3/2	3900
BH - 356	12 3/4	50 3/4	23	75 3/4	9 3/4	22 3/4	35 1/2	5 1/2	5	47 1/4	7	5	17 3/4	10	17 1/8	15 3/4	17 1/4	23 5/8	6 1/4	22 1/2	21 3/4	2	3 1/8	3/4	6 1/2	1 1/2	1 3/2	4500

SHAFT DIAMETERS ARE HELD TO +.0000", -.001" LIMITS.
 CA DIMENSION IS NEVER EXCEEDED
 * THIS DIMENSION IS INCREASED FOR RATIOS BELOW 10 to 1

For reference only. Certified prints furnished for construction purposes.

For assembly and relative rotation diagrams see page 33.

HORSEPOWER RATINGS — TYPE BH UNITS

HORIZONTAL DOUBLE REDUCTION

REDUCER SIZE	MOTOR RPM	The horsepower capacities given below represent mechanical ratings at Input speeds shown. Refer to page 41 for instructions.											
		STANDARD RATIOS MAY VARY UP TO $\pm 3\frac{1}{2}\%$											
		6	8	10	12	15	20	25	30	35	40	45	50
BH-109	1750	44.9	38.0	34.5	26.2	22.5	16.4	13.7	10.6				
	1150	31.0	26.9	23.8	17.4	15.2	11.2	9.2	7.0				
	870	25.3	20.6	17.3	14.0	11.3	9.1	7.5	5.4				
	720	21.9	17.4	15.5	11.4	9.7	7.4	6.1	4.7				
BH-114	1750	83.0	62.3	52.4	43.4	35.8	25.6	20.7	18.9				
	1150	56.2	42.9	35.1	29.7	24.5	18.1	13.8	12.8				
	870	42.6	33.2	26.6	22.7	18.4	14.1	10.6	9.9				
	720	35.2	27.9	22.0	19.2	15.3	11.6	9.0	8.2				
BH-133	1750	187.0	133.0	111.4	94.9	69.3	52.1	45.0	35.1				
	1150	130.0	94.9	76.8	65.1	48.9	36.5	31.3	24.4				
	870	102.4	77.4	59.7	50.5	39.2	29.2	24.2	18.7				
	720	86.8	65.2	50.1	42.4	33.2	24.7	20.1	15.8				
BH-157	1750	304.0	238.0	183.0	159.0	128.0	91.4	77.3	65.4	49.9	44.4		
	1150	213.0	166.0	131.0	113.3	89.5	64.7	52.3	44.6	33.9	30.0		
	870	167.0	129.0	105.1	88.3	69.5	51.1	40.6	34.4	26.0	22.9		
	720	141.0	109.1	90.2	74.1	58.1	42.8	34.0	29.0	21.7	19.3		
BH-194	1750	425.0	382.0	288.0	246.0	209.0	158.0	121.0	103.8	88.2	75.3		
	1150	276.0	266.0	201.0	170.0	144.0	111.7	86.3	70.8	59.9	51.5		
	870	221.0	207.0	168.0	132.0	112.2	86.3	69.0	54.7	46.2	29.3		
	720	190.0	174.0	141.0	111.8	95.0	72.9	58.7	45.9	38.6	33.0		
BH-252	1750	595.0	490.0	388.0	322.0	244.0	190.0	154.0	144.0	111.2	98.9		
	1150	500.0	427.0	341.0	278.0	228.0	169.0	136.0	110.4	100.1	75.6	67.3	
	870	405.0	330.0	265.0	224.0	178.0	131.0	107.0	89.5	77.1	57.7	51.8	
	720	342.0	279.0	224.0	190.0	150.0	111.0	89.9	77.1	64.5	48.5	43.4	
BH-320	1750	627.0	535.0	433.0	322.0	264.0	212.0	204.0	168.0	152.0			
	1150	725.0	569.0	458.0	381.0	293.0	215.0	184.0	148.0	133.0	111.0	101.0	
	870	583.0	450.0	356.0	291.0	238.0	176.0	146.0	114.0	102.0	88.9	80.5	
	720	500.0	384.0	291.0	247.0	195.0	148.0	121.0	96.0	85.0	74.8	67.3	
BH-356	1750	708.0	635.0	473.0	359.0	304.0	276.0	235.0	210.0	183.0			
	1150	844.0	738.0	624.0	512.0	457.0	336.0	258.0	221.0	192.0	169.0	144.0	125.0
	870	695.0	598.0	486.0	413.0	362.0	262.0	207.0	176.0	149.0	131.0	111.0	96.5
	720	612.0	520.0	418.0	358.0	307.0	222.0	177.0	148.0	124.0	110.0	93.8	80.8
BH-356	580	518.0	438.0	350.0	300.0	252.0	182.0	147.0	122.0	102.0	90.0	76.2	66.0
	400	388.0	314.0	246.0	208.0	181.0	130.0	104.0	86.2	72.0	63.3	53.7	46.6

CONSULT FACTORY FOR INFORMATION ON LARGER UNITS

Exact ratios may be had on request. Intermediate ratios can be supplied.

Approximate mechanical ratings at lower speeds may be obtained by reducing the above values in proportion to the decreased speed. Consult factory for recommendations at operating speeds above or below those shown.

For high speed and low speed shaft overhung capacities see page 31.

Mechanical ratings are shown in shaded area when they exceed the thermal rating. See page 29 for thermal ratings.