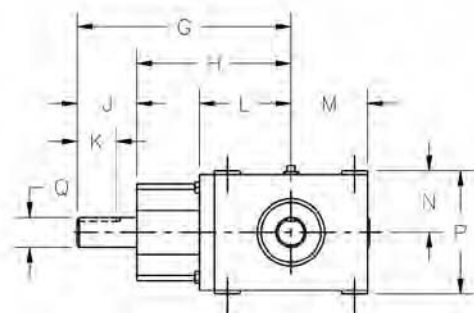
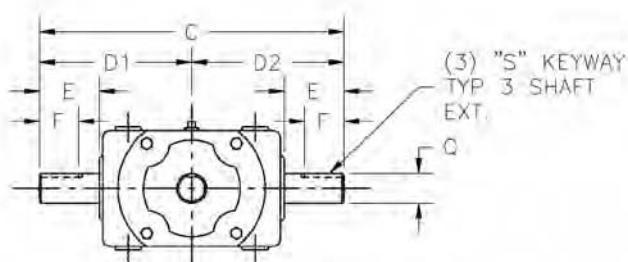
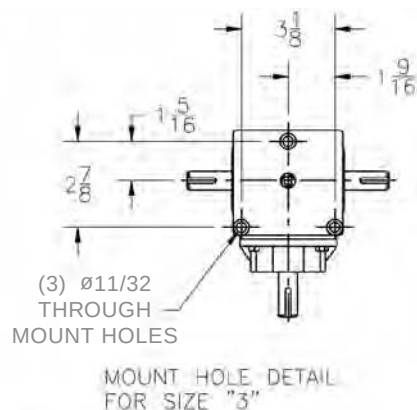
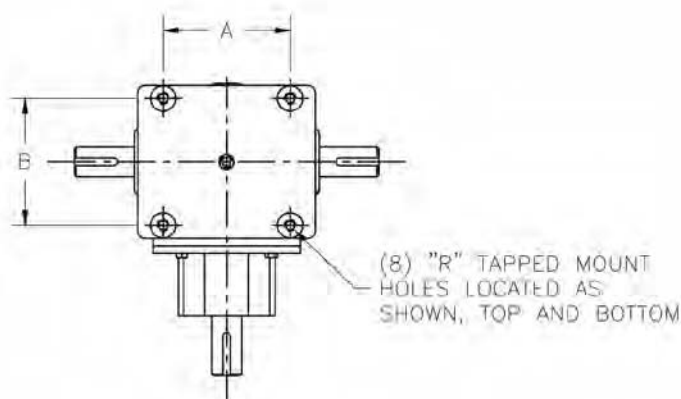




Cast Iron Housing Hardened Gears



Specifications

Size No.	Wt. Lbs.	Dimensions							
		A	B	C	D ₁	D ₂	E	F	G
3	10	▲	▲	7 1/2"	3 3/4"	3 3/4"	1 1/2"	7/8"	4 9/16"
6	23	4 3/8"	2 3/4"	9 3/32	4 35/64	4 35/64	1 5/8	7/8	6 1/8
9	28	4 1/4	4 1/4	10 3/16	5 3/32	5 3/32	2	1 5/16	7 5/32
12	48	4 1/2	4 1/2	12 1/4	6 1/8	6 1/8	2 3/8	1 5/8	8 15/32
15	105	6 1/2	6 1/2	15 13/16	7 29/32	7 29/32	3	2 1/8	10 7/8
18	125	6 1/2	6 1/2	16 3/32	8 3/64	8 3/64	3	2 1/8	11 15/32

Size No.	Dimensions								Tap Size	Tap Depth	Keyway S
	H	J	K	L	M	N	P	Q *			
3	3 1/16"	1 1/2"	7/8"	2 13/64"	1 11/16"	1 19/32"	3 3/16"	.625"	-	-	3/16" x 3/32"
6	4 3/8	1 3/4	1	2 15/16	2 1/16	2 1/8	4 1/4	1.000	3/8-16NC	.56	1/4 x 1/8
9	5 5/32	2	1 5/16	3 1/16	2 9/16	2 1/16	4 1/8	1.000	3/8-16NC	.56	1/4 x 1/8
12	5 31/32	2 1/2	1 5/8	3 31/32	2 7/8	2 13/16	5 5/8	1.250	1/2-13NC	.88	1/4 x 1/8
15	7 7/8	3	2 1/8	4 17/32	3 27/32	4 3/32	8 3/16	1.375	1/2-13NC	.88	5/16 x 5/32
18	8 15/32	3	2 1/8	4 27/32	3 27/32	4 3/32	8 3/16	1.500	1/2-13NC	.88	3/8 x 3/16

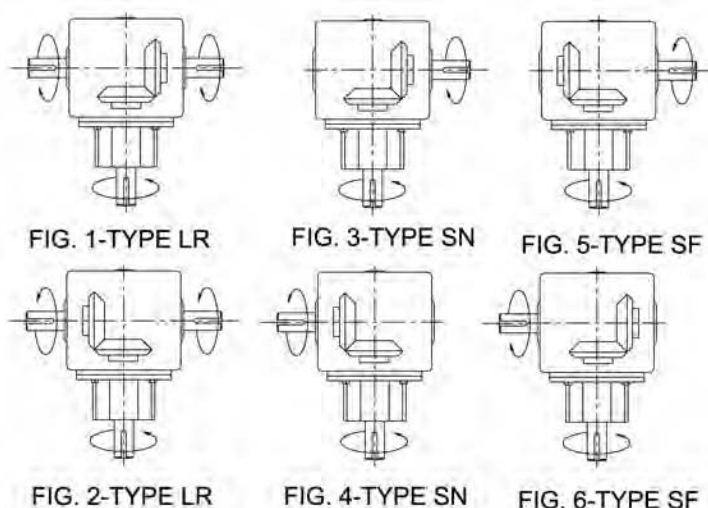
▲ See Mount Hole Detail Drawing for 3HSB1.

Select Part No. from the table and Figures 1-6 on page 461.

* Shaft Tolerances are: +.000 to -.001".

Note — If gear box is to be mounted with either shaft vertical, provision must be made to lubricate the top bearings. Contact the Application Engineering (1 800 626 2093).

Note — In order to obtain maximum reducer life, all applications applying axial force on the input shaft of these reducers should be referred to Application Engineering.



Ratios, Types and Part Numbers

Ratio	Fig.	Type	Part No.	Ratio	Fig.	Type	Part No.	Ratio	Fig.	Type	Part No.
Size No. 3				Size No. 12				Size No. 18			
1:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	3HSB1-LR10 3HSB1-SN10 3HSB1-SF10	1:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	12HSB1-LR10 12HSB1-SN10 12HSB1-SF10	1:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	18HSB1-LR10 18HSB1-SN10 18HSB1-SF10
1:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	3HB1-LR10 3HB1-SN10 3HB1-SF10	1:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	12HB1-LR10 12HB1-SN10 12HB1-SF10	1:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR10 18HB1-SN10 18HB1-SF10
1.5:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	3HB1-LR15 3HB1-SN15 3HB1-SF15	1.5:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	12HB1-LR15 12HB1-SN15 12HB1-SF15	1.2105:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR12 18HB1-SN12 18HB1-SF12
2:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	3HB1-LR20 3HB1-SN20 3HB1-SF20	2:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	12HB1-LR20 12HB1-SN20 12HB1-SF20	1.3333:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR13 18HB1-SN13 18HB1-SF13
Size No. 6				1:1.5 Straight (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	12HB1-LR15-A 12HB1-SN15-A 12HB1-SF15-A	1.5:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	18HSB1-LR15 18HSB1-SN15 18HSB1-SF15
1:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	6HSB1-LR10 6HSB1-SN10 6HSB1-SF10	Size No. 15				1.5:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR15 18HB1-SN15 18HB1-SF15
1:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	6HB1-LR10 6HB1-SN10 6HB1-SF10	1:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	15HSB1-LR10 15HSB1-SN10 15HSB1-SF10	1.7131:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR17 18HB1-SN17 18HB1-SF17
1.4615:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	6HB1-LR15 6HB1-SN15 6HB1-SF15	1:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	15HB1-LR10 15HB1-SN10 15HB1-SF10	1:1.2105 Straight (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR12-A 18HB1-SN12-A 18HB1-SF12-A
1.8:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	6HB1-LR18 6HB1-SN18 6HB1-SF18	1.5:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	15HSB1-LR15 15HSB1-SN15 15HSB1-SF15	1:1.3333 Straight (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR13-A 18HB1-SN13-A 18HB1-SF13-A
Size No. 9				1.5:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	15HB1-LR15 15HB1-SN15 15HB1-SF15	1:1.5 Spiral (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	18HSB1-LR15-A 18HSB1-SN15-A 18HSB1-SF15-A
1:1 Spiral	1 and 2 3 and 4 5 and 6	LR SN SF	9HSB1-LR10 9HSB1-SN10 9HSB1-SF10	2:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	15HB1-LR20 15HB1-SN20 15HB1-SF20	1:1.5 Straight (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR15-A 18HB1-SN15-A 18HB1-SF15-A
1:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	9HB1-LR10 9HB1-SN10 9HB1-SF10	3:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	15HB1-LR30 15HB1-SN30 15HB1-SF30	1:1.7143 Straight (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	18HB1-LR17-A 18HB1-SN17-A 18HB1-SF17-A
1.5:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	9HB1-LR15 9HB1-SN15 9HB1-SF15	1:1.5 Spiral (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	15HSB1-LR15-A 15HSB1-SN15-A 15HSB1-SF15-A				
2:1 Straight	1 and 2 3 and 4 5 and 6	LR SN SF	9HB1-LR20 9HB1-SN20 9HB1-SF20	1:1.5 Straight (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	15HB1-LR15-A 15HB1-SN15-A 15HB1-SF15-A				
				1:2 Straight (Speed-Up)	1 and 2 3 and 4 5 and 6	LR SN SF	15HB1-LR20-A 15HB1-SN20-A 15HB1-SF20-A				

Determine the size reducer and ratio needed from Engineering Data on pages 456 to 459. Then from the sketches above determine the Type needed for the desired shaft extension and rotation. Then from the table above, determine the Reducer Part Number. Example: For a Size 12, 2:1 Ratio Reducer with single output left and output to rotate CCW when input rotates CW (looking at the shaft ends) note from Fig. 4 that a Type SN is needed and from the table the Part Number is 12HB1-SN20.