

Gear Reduction (GHB) Unit Sizes 11 to 22 Performance Chart

Totally enclosed and running in oil, the reduction gears are made of hardened steel to assure longer life. Antifriction bearings are used throughout. Three interchangeable gear ratios are available in each size. For additional ratios look at using a Roper CCD bracket and an industrial standard gearmotor.

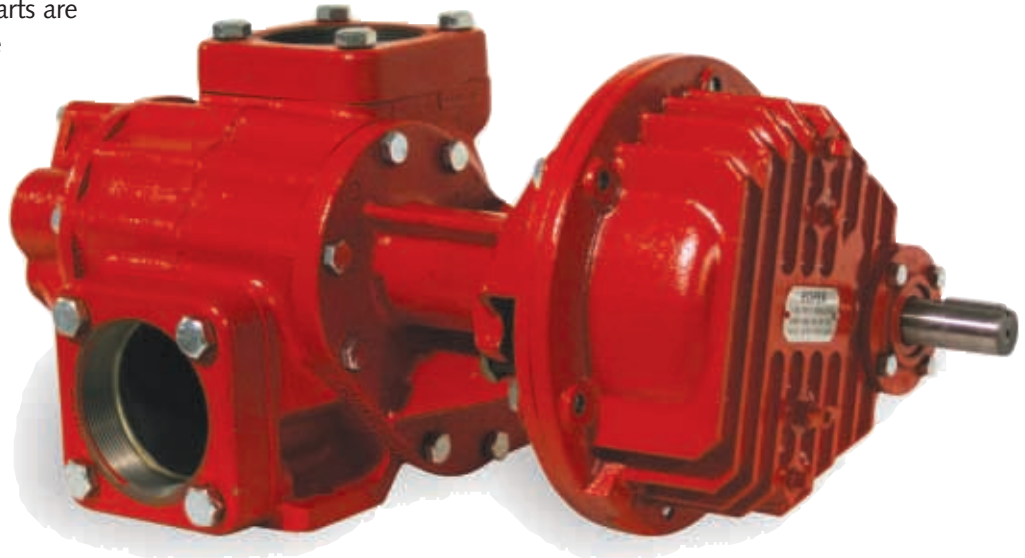
GEAR RATIOS AND CAPACITIES FOR GHB UNITS				
	Motor RPM	Gear Ratio	Pump RPM	Max. Permissible HP
11 through 22	1150	4.60:1	250	5.5
		3.94:1	290	6.5
		3.20:1	360	8.0
	1750	4.60:1	380	8.5
		3.94:1	445	10.0
		3.20:1	545	10.0
3450*	4.60:1	750	10.0	

*3450 RPM motors are used in handling low viscosity lubricating liquids.

PERFORMANCE CHARTS

Performance figures show maximum horsepower requirements for minimum rated gallons per minute at the various speeds, viscosities and pressures. The charts are intended as a guide for conditions at the pump. In determining the proper conditions of operation for the pump, many factors must be considered including inlet conditions, liquid characteristics, and temperature.

If there is any question concerning these charts or the recommended operating conditions, please consult your Roper distributor, district representative, or the home office.

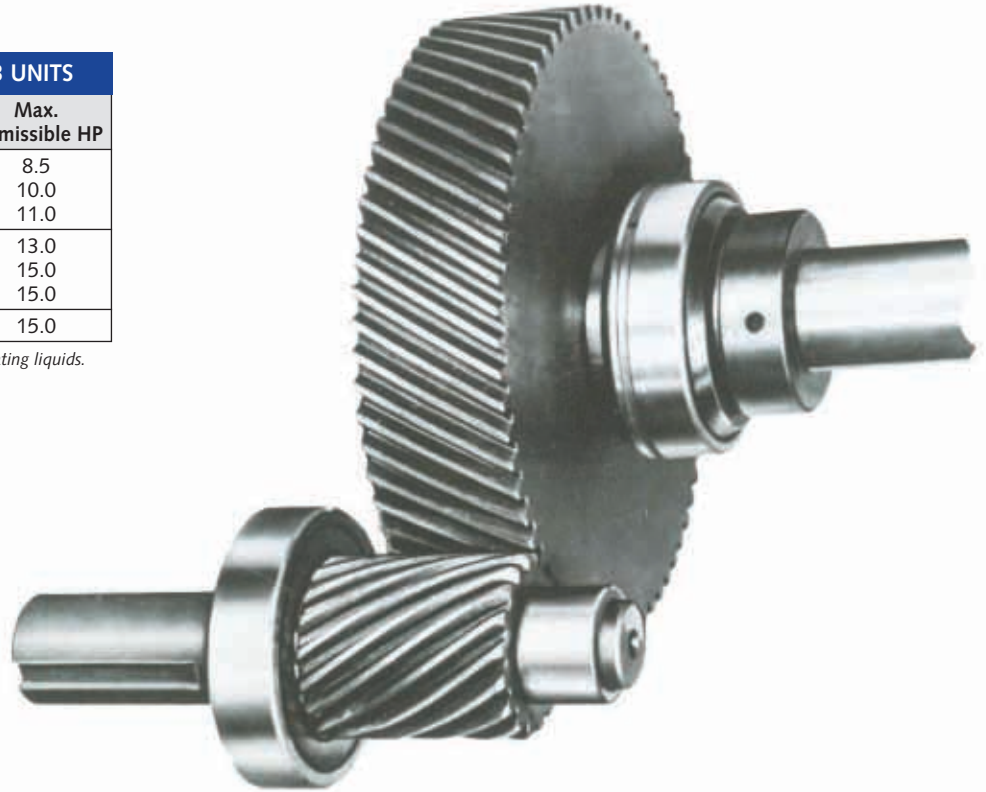


SIZE	RPM	250 RPM				290 RPM				360 RPM				380 RPM				445 RPM				545 RPM				750 RPM					
		PSI	SSU	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000
11	25	GPM	.25	.26	.27	.27	.29	.30	.31	.31	.37	.38	.39	.39	.40	.41	.42	.42	.47	.48	.49		.58	.59	.60		.80	.81	.82		
		HP	.7	.7	.9	1.3	.9	.9	1.2	1.5	1.1	1.1	1.4	2.2	1.1	1.1	1.5	2.3	1.4	1.4	2.0		1.9	1.9	2.7		2.8	2.8	3.8		
	50	GPM	23	25	27	27	27	29	31	31	35	37	39	39	38	40	42	42	45	47	49		56	58	60		78	80	82		
		HP	1.1	1.1	1.3	1.7	1.3	1.3	1.5	1.9	1.7	1.7	2.0	2.8	1.7	1.7	2.1	2.9	2.1	2.1	2.6		2.7	2.7	3.5		3.9	3.9	4.9		
17	100	GPM		23	26	27		27	30	31		35	38	39	33	38	41	42	40	45	48		51	56	59		73	78	81		
		HP		1.9	2.1	2.5		2.2	2.4	3.0		2.8	3.1	3.9	2.9	2.9	3.3	4.1	3.5	3.5	4.0		4.4	4.4	5.2		6.3	6.3	7.3		
	125	GPM		22	24	27		26	30	31		34	38	39		37	41	42		44	48		48	55	59		70	77	81		
		HP		2.2	2.6	2.8		2.7	2.9	3.5		3.3	3.6	4.4		3.5	3.9	4.7		4.2	4.7		5.4	5.4	6.2		7.5	7.5	8.5		
22	25	GPM	38	40	41	42	45	47	48	49	57	59	60	61	60	62	63	64	71	73	74		88	90	91		123	125	126		
		HP	.8	.8	1.1	1.8	1.0	1.0	1.3	2.2	1.2	1.2	1.8	3.0	1.3	1.3	1.9	3.3	1.7	1.7	2.5		2.3	2.3	3.6		3.5	3.5	6.0		
	50	GPM	38	38	41	42	40	45	48	49	52	57	60	61	55	60	63	64	66	71	74		83	88	91		118	123	126		
		HP	1.4	1.4	1.7	2.4	1.6	1.6	1.9	2.8	2.1	2.1	2.7	3.9	2.3	2.3	2.9	4.3	2.9	2.9	3.7		3.6	3.6	4.9		5.4	5.4	7.9		
22	100	GPM		34	40	41		41	47	48		49	53	59	60	52	56	62	63	63	63	67	73	80	84	90		115	119	125	
		HP		2.5	2.9	3.6		3.0	3.3	4.2		3.8	3.8	4.4	5.6	4.2	4.2	4.8	6.2	5.0	5.8		6.3	6.3	7.6		9.0	9.0	11.5		
	125	GPM			39	41			46	48	49	51	58	60	52	54	61	63	63	65	72		80	82	89		115	117	124		
		HP			3.4	4.1			4.0	4.9	4.6	4.6	5.2	6.4	5.0	5.0	5.6	7.0	6.0	6.0	6.8		7.5	7.5	8.8		10.8	10.8	13.3		

Gear Reduction (GHB) Unit Sizes 32 to 58 Performance Chart

GEAR RATIOS AND CAPACITIES FOR GHB UNITS				
32 through 58	Motor RPM	Gear Ratio	Pump RPM	Max. Permissible HP
		1150	5.66:1	203
4.88:1			235	10.0
4.26:1			270	11.0
	1750	5.66:1	309	13.0
		4.88:1	360	15.0
		4.26:1	410	15.0
	3450*	5.66:1	609	15.0

*3450 RPM motors are used in handling low viscosity lubricating liquids.



SIZE	RPM	203 RPM				235 RPM				270 RPM				309 RPM				360 RPM				410 RPM				609 RPM						
		PSI	SSU	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	30	100	1000	10,000	
32	25	GPM	54	57	61	65	64	67	71	75	75	78	82	86	88	91	95	99	104	107	111	115	120	123	127	131	184	187	191	195		
		HP	1.2	1.4	1.8	1.3	1.5	1.8	2.3	1.7	1.9	2.5	3	3	2.1	2.3	2.8	3.4	2.8	3	3.6	4.3	3.5	3.7	4.3	5.2	6	6.7	8	10		
	50	GPM	41	47	55	59	51	57	66	70	62	68	77	81	75	81	89	93	91	97	106	110	107	113	122	126	171	177	185	189		
		HP	2	2.2	2.4	2.8	2.3	2.5	2.8	3.3	3	3.2	3.8	4.3	3.5	3.7	4.2	4.8	4.5	4.7	5.3	6	5.5	5.7	6.3	7.2	9	9.7	11	13		
35	100	GPM			44	52			54	62			47	65	73			60	78	86	94	102	81	92	110	118	145	156	174	182		
		HP			4.4	4.8			5.1	5.6			5.9	6.5	7			6.7	7.2	7.8	8.3	9	9.5	9.7	10.3	11.2	14.5	15.2	16.5	18.5		
	125	GPM				49			46	59			57	70				70	83	95	107	115	121	131	145	178	185	196	219	217		
		HP				5.8			6.6	7.1			8	8.5				8.7	9.3	10	10.7	11.5	12.1	13	14.5	17.8	19.1	21.1	21.1	21.1		
43	25	GPM	71	72	73	75	83	84	85	87	96	97	98	100	110	111	112	114	129	130	131	133	148	149	150	172	174	221	222	223	223	
		HP	2.6	2.6	2.8	4.3	3.1	3.1	3.3	5.2	3.7	3.7	3.9	6.2	4.4	4.4	4.6	7.5	5.3	5.3	5.7	9.4	6.2	6.7	6.7	10.9	10.9	10.9	11.9	11.9	11.9	
	50	GPM	67	69	71	73	79	81	83	85	92	94	96	98	106	108	110	112	125	127	129	131	144	146	148	170	170	217	219	221	221	
		HP	3.7	3.7	3.9	5.4	4.4	4.4	4.6	6.5	5.1	5.1	5.3	7.6	6.0	6.0	6.2	9.1	7.1	7.1	7.5	11.2	8.4	8.4	8.9	13.4	14.2	14.2	15.2	15.2	15.2	
48	100	GPM		61	68	71		73	80	83	82	86	93	96	96	100	107	110			126	129			145				218			
		HP		5.8	6.0	7.5		6.8	7.0	8.9	8.0	8.2	10.5	9.4	9.4	9.6	12.5				11.4	15.1			13.4				21.8			
	125	GPM			65	70			77	82			83	90	95			104	109			123	128			142			215			
		HP			7.2	8.7			8.3	10.2			9.5	9.7	12.0			11.2	14.1			13.4	17.1			15.6			25.2			
58	25	GPM	76	79	83	85	90	93	97	99	105	108	112	114	122	125	128	131	144	147	150	153	165	168	172	174	251	254	257	260		
		HP	1.8	2	2.3	3	2	2.3	2.8	3	2.4	2.9	3.3	3.7	3	3.2	3.7	4.4	3.7	3.9	4.7	5.6	4.4	4.9	5.7	7	8.2	9	11	14		
	50	GPM	62	68	77	81	76	82	91	95	91	97	106	110	108	114	123	127	130	136	145	149	151	157	166	170	237	243	252	256		
		HP	2.5	2.7	3	3.7	3.2	3.5	4	4.2	4	4.5	4.9	5.3	5	5.2	5.7	6.4	5.8	6	6.8	7.7	7.1	7.6	8.4	9.7	12	12.8	14.8	17.8		
58	100	GPM			62	72			76	86			73	91	101			90	108	118	95	112	130	140	116	161	202	219	237	247		
		HP			5.5	6.2			7	7.2			8	8.4	8.8			9.2	9.7	10.4	10.6	10.8	11.6	12.5	12.2	12.7	14.8	19.4	20.2	22.2	25.2	
	125	GPM			56	69			70	83			85	98					102	115	55	97	124	137		118	145	158	182	204	231	244
		HP			6.6	7.3			8.5	8.7			9.5	9.9					11.2	11.9	13.1	13.3	14.1	15	15.4	16.2	17.5	23.2	24	26	29	
58	25	GPM	94	97	101	103	111	114	118	120	129	132	136	138	149	152	156	158	176	179	183	185	202	205	209	211	305	308	312	314		
		HP	2.5	2.8	3.2	3.8	3.0	3.4	3.9	4.6	3.7	3.9	4.7	5.7	4.4	4.7	5.7	6.9	5.4	5.9	7.0	8.5	6.3	6.8	8.4	10.3	10.9	12.0	16.8	19.7		
	50	GPM			93	99		103	110	116		121	128	134	133	141	148	154	160	168	175	181	186	194	201	207	209	297	304	310		
		HP			4.7	5.3		5.1	5.6	6.3		5.9	6.7	7.7	6.8	7.1	8.1	9.3	8.0	8.5	9.6	11.1	9.5	10.0	11.6	13.5	15.4	16.5	19.3	24.2		
58	100	GPM							105				123								159	170			185	196		266	288	299		
		HP							10.0				11.1								12.7	13.9			17.7	19.6		25.6	28.4	33.3		
	125	GPM							101				119								139	143			166	192		279	295			
		HP							11.7				14.0								16.2	17.7			20.8	22.7		32.9	37.3			