

CAST-IRON WORM GEARBOXES



CHAPTER

2

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IRONHORSE® CAST-IRON WORM GEARBOXES



GEARBOX SELECTION FACTORS

SERVICE FACTORS AND K FACTORS

Service Factors for Selecting Gearboxes (when used with electric motors)				
Service Continuity (per day)	Load Characteristics			
	Uniform	Moderate Shock*	Heavy Shock*	Extreme Shock*
Occasional 1/2 hour	1.00	1.00	1.00	1.25
Less than 3 hours	1.00	1.00	1.25	1.50
3-10 hours	1.00	1.25	1.50	1.75
More than 10 hours	1.25	1.50	1.75	2.00
* Shock results from sudden increases in the torque demand of the load, such as: sudden stopping, restarting, and/or reversing; significantly heavy loads dropped onto a moving conveyor; impact loads such as punch press operations.				
Depending upon the load characteristics, divide the gearbox HP, Overhung Load, and Maximum Mechanical Capacity ratings by the applicable service factor.				

Overhung Load K Factors for Various Drive Types	
Chain & Sprocket	1.00
Gear	1.25
V-belt	1.50
Flat Belt	2.50
Variable Pitch Belt	3.50
Divide gearbox OHL ratings by the applicable OHL K factors.	

IRONHORSE® CAST-IRON WORM GEARBOX SPECIFICATIONS

FRAME SIZE 175 SPECIFICATIONS

IronHorse Cast-Iron Worm Gearbox Specifications – Frame Size 175																	
Part Number	Ratio	Output RPM @ 1750 rpm Input	Nominal Motor HP 1 @ 1800 rpm	NEMA Motor Frame	Output Type 2	Center Distance 3 (in)	Overhung Load 4 (lb)	Thrust Load 5 (lb)	Efficiency (%)	Approx Weight (lb)	Maximum Ratings @ 1750 rpm Input						Maximum Input Speed (rpm)
											Mechanical 6			Thermal 7			
											Input Power (hp)	Output Power (hp)	Output Torque (lb-in)	Input Power (hp)	Output Power (hp)	Output Torque (lb-in)	
WG-175-005-D	5:1	350	1-1/2	56C	D	1.75	650	550	93	23	2.83	2.62	499	2.28	2.11	402	2500
WG-175-005-H					H												
WG-175-005-L					L												
WG-175-005-R					R												
WG-175-010-D	10:1	175	1	56C	D				88	23	1.57	1.38	515	1.36	1.19	445	
WG-175-010-H					H												
WG-175-010-L					L												
WG-175-010-R					R												
WG-175-015-D	15:1	117	3/4	56C	D				85	23	1.24	1.06	554	1.13	0.96	506	
WG-175-015-H					H												
WG-175-015-L					L												
WG-175-015-R					R												
WG-175-020-D	20:1	88	3/4	56C	D				83	23	1.26	1.04	737	0.98	0.81	572	
WG-175-020-H					H												
WG-175-020-L					L												
WG-175-020-R					R												
WG-175-040-D	40:1	44	1/3	56C	D				62	23	0.79	0.49	714	0.45	0.28	404	
WG-175-040-H					H												
WG-175-040-L					L												
WG-175-040-R					R												
WG-175-060-D	60:1	29	1/4	56C	D	52	23	0.38	0.20	433	0.35	0.19	404				
WG-175-060-H					H												
WG-175-060-L					L												
WG-175-060-R					R												

1) Nominal Motor HP is the highest HP 1800 rpm motor to be used with the gearbox under conditions of 1.0 service factor. Gearbox input power capacity decreases as motor speed decreases and as service factor increases.

2) Output Type: D = Dual Shaft; H = Hollow Bore; L = Left-Hand Shaft; R = Right-Hand Shaft.

3) The Center Distance is the distance between the centerlines of the input and output shafts/bores; serves as the gearbox frame size.

4) Overhung Load ratings are for forces perpendicular to the output shaft and located at the shaft midpoint, such as from a gear, pulley, or sprocket with a belt or chain. Divide OHL ratings by the applicable OHL K factors shown separately in the Selection Factors tables. OHL ratings should also be divided by applicable service factors.

5) Thrust Load ratings are for forces along the axis of the output shaft, usually encountered in vertical-drive applications from agitators, mixers, fans, blowers, etc.

6) Maximum Mechanical Ratings are limits based on strength and durability of gearbox components; applicable when operating time is short and stopped time is greater than or equal to operating time. These ratings are applicable for 1.0 service factor loads, and may require modification depending upon characteristics of the applicable driven loads. Refer to the "Service Factors" table for more information.

7) Maximum Thermal Ratings are limits for gearbox continuous use without overheating.

CAST-IRON WORM GEARBOX SPECIFICATIONS (CONTINUED)

FRAME SIZE 206 SPECIFICATIONS

IronHorse Cast-Iron Worm Gearbox Specifications – Frame Size 206																									
Part Number	Ratio	Output RPM @ 1750 rpm Input	Nominal Motor HP 1 @ 1800 rpm	NEMA Motor Frame	Output Type 2	Center Distance 3 (in)	Overhung Load 4 (lb)	Thrust Load 5 (lb)	Efficiency (%)	Approx Weight (lb)	Maximum Ratings @ 1750 rpm Input						Maximum Input Speed (rpm)								
											Mechanical 6			Thermal 7											
											Input Power (hp)	Output Power (hp)	Output Torque (lb-in)	Input Power (hp)	Output Power (hp)	Output Torque (lb-in)									
WG-206-005-D	5:1	350	2	56C	D	2.06	700	750	92	27.9	3.62	3.33	925	2.57	2.36	657									
WG-206-005-H					H					32															
WG-206-005-L					L					27.3															
WG-206-005-R					R					27.3															
WG-206-010-D	10:1	175	1-1/2	56C	D				2.06	700	750	90	27.9	2.77	2.50	935	2.10	1.89	708						
WG-206-010-H					H								32												
WG-206-010-L					L								27.3												
WG-206-010-R					R								27.3												
WG-206-015-D	15:1	117	1	56C	D							2.06	700	750	85	27.9	2.09	1.78	1002	1.40	1.20	673			
WG-206-015-H					H											32									
WG-206-015-L					L											27.3									
WG-206-015-R					R											27.3									
WG-206-020-D	20:1	88	1	56C	D										2.06	700	750	82	27.9	1.57	1.29	914	1.17	0.96	681
WG-206-020-H					H														32						
WG-206-020-L					L														27.3						
WG-206-020-R					R														27.3						
WG-206-040-D	40:1	44	1/2	56C	D	2.06	700	750	71	27.9	1.09							0.77	1120	0.71	0.50	726			
WG-206-040-H					H					32															
WG-206-040-L					L					27.3															
WG-206-040-R					R					27.3															
WG-206-060-D	60:1	29	1/3	56C	D				2.06	700	750	58	27.9	0.60				0.35	750	0.48	0.28	606			
WG-206-060-H					H								32												
WG-206-060-L					L								27.3												
WG-206-060-R					R								27.3												

1) Nominal Motor HP is the highest HP 1800 rpm motor to be used with the gearbox under conditions of 1.0 service factor. Gearbox input power capacity decreases as motor speed decreases and as service factor increases.
 2) Output Type: D = Dual Shaft; H = Hollow Bore; L = Left-Hand Shaft; R = Right-Hand Shaft.
 3) The Center Distance is the distance between the centerlines of the input and output shafts/bores; serves as the gearbox frame size.
 4) Overhung Load ratings are for forces perpendicular to the output shaft and located at the shaft midpoint, such as from a gear, pulley, or sprocket with a belt or chain. Divide OHL ratings by the applicable OHL K factors shown separately in the Selection Factors tables. OHL ratings should also be divided by applicable service factors.
 5) Thrust Load ratings are for forces along the axis of the output shaft, usually encountered in vertical-drive applications from agitators, mixers, fans, blowers, etc.
 6) Maximum Mechanical Ratings are limits based on strength and durability of gearbox components; applicable when operating time is short and stopped time is greater than or equal to operating time. These ratings are applicable for 1.0 service factor loads, and may require modification depending upon characteristics of the applicable driven loads. Refer to the "Service Factors" table for more information.
 7) Maximum Thermal Ratings are limits for gearbox continuous use without overheating.

CAST-IRON WORM GEARBOX SPECIFICATIONS (CONTINUED)

FRAME SIZE 237 SPECIFICATIONS

IronHorse Cast-Iron Worm Gearbox Specifications – Frame Size 237																									
Part Number	Ratio	Output RPM @ 1750 rpm Input	Nominal Motor HP 1 @ 1800 rpm	NEMA Motor Frame	Output Type 2	Center Distance 3 (in)	Overhung Load 4 (lb)	Thrust Load 5 (lb)	Efficiency (%)	Approx Weight (lb)	Maximum Ratings @ 1750 rpm Input						Maximum Input Speed (rpm)								
											Mechanical 6			Thermal 7											
											Input Power (hp)	Output Power (hp)	Output Torque (lb-in)	Input Power (hp)	Output Power (hp)	Output Torque (lb-in)									
WG-237-005-D	5:1	350	3	56C	D	2.37	900	900	93	37.6	4.32	4.02	766	3.56	3.31	630									
WG-237-005-H					H					38															
WG-237-005-L					L					36.7															
WG-237-005-R					R					36.7															
WG-237-010-D	10:1	175	1-1/2		D				2.37	900	900	89	37.6	3.47	3.09	1158	2.24	1.99	746						
WG-237-010-H					H								38												
WG-237-010-L					L								36.7												
WG-237-010-R					R								36.7												
WG-237-015-D	15:1	117	1		D							2.37	900	900	84	37.6	2.64	2.22	1249	1.55	1.30	732			
WG-237-015-H					H											38									
WG-237-015-L					L											36.7									
WG-237-015-R					R											36.7									
WG-237-020-D	20:1	88	1		D										2.37	900	900	82	37.6	2.06	1.69	1195	1.36	1.12	791
WG-237-020-H					H														38						
WG-237-020-L					L														36.7						
WG-237-020-R					R														36.7						
WG-237-040-D	40:1	44	1/2	D	2.37	900	900	71										37.6	1.45	1.02	1483	0.83	0.58	845	
WG-237-040-H				H														38							
WG-237-040-L				L														36.7							
WG-237-040-R				R														36.7							
WG-237-060-D	60:1	29	1/2	D				2.37	900	900	61							37.6	0.86	0.53	1149	0.63	0.39	844	
WG-237-060-H				H														38							
WG-237-060-L				L														36.7							
WG-237-060-R				R														36.7							

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 3) The Center Distance is the distance between the centerlines of the input and output shafts/bores; serves as the gearbox frame size.
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 7) Maximum Thermal Ratings are limits for gearbox continuous use without overheating.

CAST-IRON WORM GEARBOX SPECIFICATIONS (CONTINUED)

FRAME SIZE 262 SPECIFICATIONS

IronHorse Cast-Iron Worm Gearbox Specifications – Frame Size 262																						
Part Number	Ratio	Output RPM @ 1750 rpm Input	Nominal Motor HP ¹ @ 1800 rpm	NEMA Motor Frame	Output Type ²	Center Distance ³ (in)	Overhung Load ⁴ (lb)	Thrust Load ⁵ (lb)	Efficiency (%)	Approx Weight (lb)	Maximum Ratings @ 1750 rpm Input						Maximum Input Speed (rpm)					
											Mechanical ⁶			Thermal ⁷								
											Input Power (hp)	Output Power (hp)	Output Torque (lb-in)	Input Power (hp)	Output Power (hp)	Output Torque (lb-in)						
WG-262-005-D	5:1	350	3	182TC	D	2.62	1000	1000	93	57.0	5.24	4.86	924	4.32	4.00	761	2500					
WG-262-005-H					H					50												
WG-262-005-L					L					55.7												
WG-262-005-R					R					55.7												
WG-262-010-D	10:1	175	2	D	56C				1000	1000	90	57.0	4.17	3.74	1445	3.06		2.75	1061			
WG-262-010-H				H								50										
WG-262-010-L				L								55.7										
WG-262-010-R				R								55.7										
WG-262-015-D	15:1	117	2	D							56C	1000	1000	87	49.9	3.22		2.81	1577	2.47	2.16	1212
WG-262-015-H				H											50							
WG-262-015-L				L											48.6							
WG-262-015-R				R											48.6							
WG-262-020-D	20:1	88	1-1/2	D		56C	1000	1000						83	49.9	2.67		2.21	1563	1.84	1.53	1078
WG-262-020-H				H											50							
WG-262-020-L				L											48.6							
WG-262-020-R				R											48.6							
WG-262-040-D	40:1	44	3/4	D	56C				1000	1000				72	49.9	1.85		1.32	1919	1.11	0.80	1153
WG-262-040-H				H											50							
WG-262-040-L				L											48.6							
WG-262-040-R				R											48.6							
WG-262-060-D	60:1	29	3/4	D							56C	1000	1000	66	49.9	1.16		0.77	1670	0.94	0.62	1346
WG-262-060-H				H											50							
WG-262-060-L				L											48.6							
WG-262-060-R				R											48.6							

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 7) Maximum Thermal Ratings are limits for gearbox continuous use without overheating.

CAST-IRON WORM GEARBOX SPECIFICATIONS (CONTINUED)

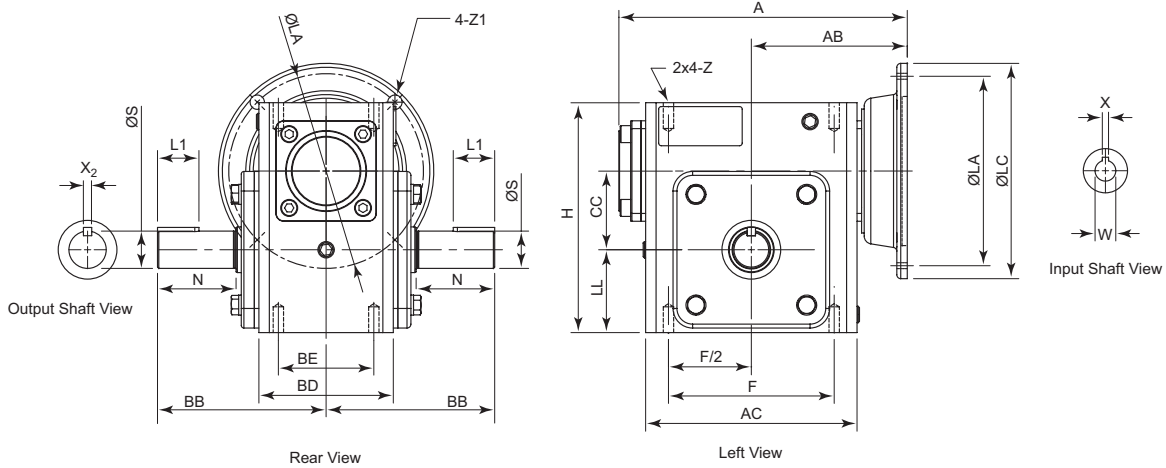
FRAME SIZE 325 SPECIFICATIONS

IronHorse Cast-Iron Worm Gearbox Specifications – Frame Size 325																																
Part Number	Ratio	Output RPM @ 1750 rpm Input	Nominal Motor HP 1 @ 1800 rpm	NEMA Motor Frame	Output Type 2	Center Distance 3 (in)	Overhung Load 4 (lb)	Thrust Load 5 (lb)	Efficiency (%)	Approx Weight (lb)	Maximum Ratings @ 1750 rpm Input					Maximum Input Speed (rpm)																
											Mechanical 6			Thermal 7																		
											Input Power (hp)	Output Power (hp)	Output Torque (lb-in)	Input Power (hp)	Output Power (hp)		Output Torque (lb-in)															
WG-325-010-DC	10:1	175	3	182/4TC	D	3.25	1200	1100	90	91	7.19	6.46	2419	4.63	4.16	1558	2500															
WG-325-010-HC					H																											
WG-325-010-LC					L																											
WG-325-010-RC					R																											
WG-325-015-DC	15:1	117	5	182/4TC	D	3.25	1200	1100	85	91	5.45	4.65	2611	3.19	2.72	1527	2500															
WG-325-015-HC					H																											
WG-325-015-LC					L																											
WG-325-015-RC					R																											
WG-325-020-DC	20:1	88	3	182TC	D	3.25	1200	1100	86	91	4.74	4.07	2875	3.31	2.85	2011	2500															
WG-325-020-HC					H																											
WG-325-020-LC					L																											
WG-325-020-RC					R																											
WG-325-030-DA	30:1	58	2	56C	D	3.25	1200	1100	77	88	3.66	2.80	3045	2.00	1.53	1661	2500															
WG-325-030-DB				145TC	D																											
WG-325-030-HA				56C	H																											
WG-325-030-HB				145TC	H																											
WG-325-030-LA				56C	L																											
WG-325-030-LB				145TC	L																											
WG-325-030-LC			3	182TC	L																											
WG-325-030-RA			3	56C	R																											
WG-325-030-RB				145TC	R																											
WG-325-030-RC				182TC	R																											
WG-325-040-DA				40:1	44													1.5	56C	D	3.25	1200	1100	76	88	3.35	2.55	3692	1.96	1.49	2156	2500
WG-325-040-DB																			145TC	D												
WG-325-040-HA	56C	H																														
WG-325-040-HB	145TC	H																														
WG-325-040-LA	56C	L																														
WG-325-040-LB	145TC	L																														
WG-325-040-RA	3	56C	R																													
WG-325-040-RB		145TC	R																													
WG-325-060-DA		60:1	29			1.5	56C	D	3.25	1200	1100	71	88	2.03	1.44	3127	1.61	1.314	2476	2500												
WG-325-060-DB							145TC	D																								
WG-325-060-HA							56C	H																								
WG-325-060-HB							145TC	H																								
WG-325-060-LA	56C			L																												
WG-325-060-LB	145TC			L																												
WG-325-060-RA	3			56C	R																											
WG-325-060-RB				145TC	R																											

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- 4) Overhung Load ratings are for forces perpendicular to the output shaft and located at the shaft midpoint, such as from a gear, pulley, or sprocket with a belt or chain. Divide OHL ratings by the applicable OHL K factors shown separately in the Selection Factors tables. OHL ratings should also be divided by applicable service factors.
- 5) Thrust Load ratings are for forces along the axis of the output shaft, usually encountered in vertical-drive applications from agitators, mixers, fans, blowers, etc.
- 6) Maximum Mechanical Ratings are limits based on strength and durability of gearbox components; applicable when operating time is short and stopped time is greater than or equal to operating time. These ratings are applicable for 1.0 service factor loads, and may require modification depending upon characteristics of the applicable driven loads. Refer to the "Service Factors" table for more information.
- 7) Maximum Thermal Ratings are limits for gearbox continuous use without overheating.

IRONHORSE® CAST-IRON WORM GEARBOX DIMENSIONS

SOLID-SHAFT OUTPUT GEARBOXES WG-XXX-XXX-D/L/R

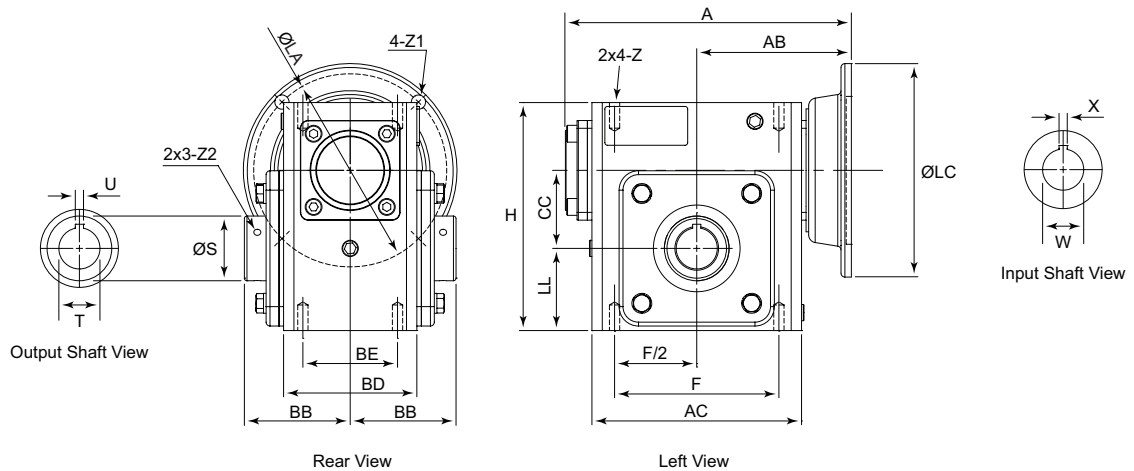


Dimensions (inches) – IronHorse Cast-Iron Worm Gearboxes – Solid-Shaft Outputs													
Part Number	Frame	A	AB	AC	BB	BD	BE	CC	F	H	LL	Z (UNC)	
WG-175-xxx-D/L/R	56C	7.29	4.035	5.06	4.311	3.56	2.75	1.75	4.188	5.75	2.062	5/16-18	
WG-206-xxx-D/L/R		7.95	4.37	5.75	4.69	3.82	2.88	2.062	5	6.38	2.281		
WG-237-xxx-D/L/R		8.71	4.705	6.38	5.087	4.06	2.88	2.375	5	6.94	2.5		
WG-262-005-D/L/R	182TC	10.57	6.24	7.17	5.63	4.69	3.375	2.625	6.375	8	2.938	3/8-16	
WG-262-010-D/L/R													
WG-262-015-D/L/R													
WG-262-020-D/L/R	56C	9.41	5.059										
WG-262-040-D/L/R													
WG-262-060-D/L/R													
WG-325-010-xC	182/4TC	12.60	7.24	9.02	7.06	5.75	4.00	3.25	7.50	9.38	3.50	7/16-14	
WG-325-015-xC													
WG-325-020-xC	182TC												
WG-325-030-xA	56C	11.42	6.06										
WG-325-030-xB	145TC												
WG-325-030-xC	182TC	12.60	7.24										
WG-325-040-xA	56C	11.42	6.06										
WG-325-040-xB	145TC												
WG-325-060-xA	56C												
WG-325-060-xB	145TC												
Part # (repeated)	Frame	Flange		Input Shaft			Output Shaft						
		LA	LC	Z1	W	X	L1	N	S	X2			
WG-175-xxx-D/L/R	56C	5.875	6.496	0.433	5/8	3/16	1	1.781	7/8	3/16			
WG-206-xxx-D/L/R							1.25	2.09	1				
WG-237-xxx-D/L/R							1.25	2.37					
WG-262-005-D/L/R	182TC	7.25	9	0.551	1-1/8	1/4	2	2.626	1-1/8	1/4			
WG-262-010-D/L/R													
WG-262-015-D/L/R													
WG-262-020-D/L/R	56C	5.875	6.496	0.433	5/8	3/16							
WG-262-040-D/L/R													
WG-262-060-D/L/R													
WG-325-010-xC	182/4TC	7.25	9.00	0.55	1-1/8	1/4	2.44	3.25	1-3/8	5/16			
WG-325-015-xC													
WG-325-020-xC	182TC												
WG-325-030-xA	56C	5.875	6.50	0.41	5/8	3/16							
WG-325-030-xB	145TC				7/8								
WG-325-030-xC	182TC				1-1/8		1/4						
WG-325-040-xA	56C	5.875	6.50	0.41	5/8	3/16							
WG-325-040-xB	145TC				7/8								
WG-325-060-xA	56C				5/8								
WG-325-060-xB	145TC				7/8								

Dual-shaft output gearboxes have output shafts on both sides (dimensions BB, L1, N, S, & X2).
 Left-hand shaft gearboxes have output shafts only on the left side, as viewed looking into the input shaft.
 Right-hand shaft gearboxes have output shafts only on the right side, as viewed looking into the input shaft.
 See our website: www.AutomationDirect.com for complete engineering drawings.

IRONHORSE® CAST-IRON WORM GEARBOX DIMENSIONS (CONTINUED)

HOLLOW-BORE OUTPUT GEARBOXES WG-XXX-XXX-H



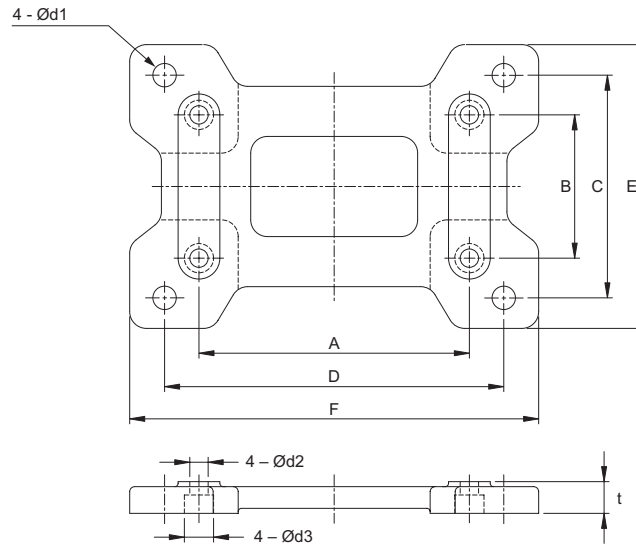
Dimensions (inches) – IronHorse Cast-Iron Worm Gearboxes – Hollow-Bore Outputs												
Part Number	Frame	A	AB	AC	BB	BD	BE	CC	F	H	LL	Z (UNC)
WG-175-xxx-H	56C	7.28	4.035	5.059	3.091	3.563	2.750	1.75	4.188	5.75	2.062	3/8-16
WG-206-xxx-H		7.95	4.370	5.748	3.219	3.819	2.880	2.062	5.000	6.375	2.281	
WG-237-xxx-H		8.68	4.705	6.378	3.220	4.055	2.880	2.375	5.000	6.937	2.500	
WG-262-005-H	182TC	10.59	6.240	7.165	3.500	4.685	3.375	2.625	6.375	8.000	2.938	
WG-262-010-H												
WG-262-015-H	56C	9.41	5.059									
WG-262-020-H												
WG-262-040-H												
WG-262-060-H												
WG-325-010-HC	182/4TC	12.60	7.24									
WG-325-015-HC												
WG-325-020-HC	182TC	11.42	6.06	9.02	4.375	5.75	4.00	3.25	7.50	9.38	3.50	
WG-325-030-HA	56C											
WG-325-030-HB	145TC											
WG-325-040-HA	56C											
WG-325-040-HB	145TC											
WG-325-060-HA	56C											
WG-325-060-HB	145TC											

Part # (repeated)	Frame	Flange		Input Shaft		Output Bore					
		LA	LC	Z1	W	X	S	T	U	Z2 (UNF)	
WG-175-xxx-H	56C	5.875	6.496	0.433	5/8	3/16	1.575	1.0	1/4	#10-32	
WG-206-xxx-H							1.772	1.125			
WG-237-xxx-H							1.969	1.250			
WG-262-005-H	182TC	7.25	9.000	0.551	1-1/8	1/4	2.362	1.437	3/8		1/4-28
WG-262-010-H											
WG-262-015-H	56C	5.875	6.496	0.433	5/8	3/16					
WG-262-020-H											
WG-262-040-H											
WG-262-060-H											
WG-325-010-HC	182/4TC	7.25	9.00	0.55	1-1/8	1/4	2.76	1.938	1/2		5/16-24
WG-325-015-HC											
WG-325-020-HC	182TC										
WG-325-030-HA	56C	5.88	6.50	0.41	5/8	3/16					
WG-325-030-HB	145TC				7/8						
WG-325-040-HA	56C				5/8						
WG-325-040-HB	145TC				7/8						
WG-325-060-HA	56C				5/8						
WG-325-060-HB	145TC				7/8						

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IRONHORSE® CAST-IRON WORM GEARBOX ACCESSORY MOUNTING BASES

MOUNTING BASE SELECTION AND DIMENSIONS



IronHorse Worm Gearbox Mounting Bases												
Part Number	Fits Gearbox Numbers	Approx Weight (lb)	Dimensions (in)									
			A	B	C	D	E	F	t	d1	d2	d3
WG-175-BASE	WG-175-xxx-x	4.0	4.19	2.76	4.50	5.75	5.69	7.00	0.69	0.43	0.35	0.55
WG-206-BASE	WG-206-xxx-x	4.8	5.00	2.88	4.69	6.38	5.91	7.76	0.72	0.47	0.43	0.69
WG-237-BASE	WG-237-xxx-x	6.2	5.00	2.88	4.88	7.06	6.22	8.50	0.75	0.47	0.43	0.69
WG-262-BASE	WG-262-xxx-x	7.5	6.38	3.38	5.25	8.00	6.69	9.65	0.75	0.55	0.43	0.69
WG-325-BASE	WG-325-xxx-xx	12.0	7.50	4.00	6.13	9.50	7.66	11.19	0.88	0.50	0.47	0.71