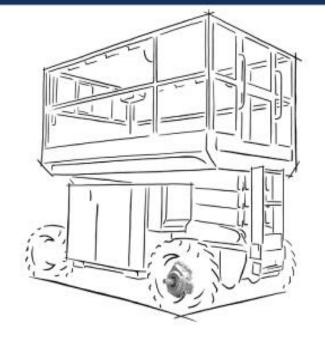


Catalog WHEEL DRIVE UNIT









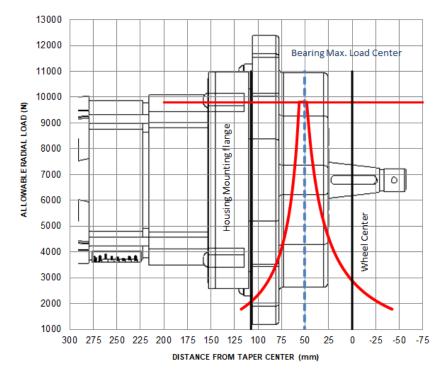
SP260D Wheel Drive Double Reduction

	SP260	D Whee	l Drive Do	uble Re	duction	
Max. Continuo	in-lbf	125	Nm			
Max. intermitte		2,212 in-lbf 25		250	Nm	
Max. input spe	ed	5,000 RPM				
Approximate w	eight	8.8	lbs	4.0	kg	
Approximate oi	l capacity	10.1	fl oz	0.3	L	
		F	eature Cha	art		
Feature	GEAR R	ΑΤΙΟ	MAX OU TORQUE		Code	Sample
	50.94	4	250		51	
GEAR RATIO &						
MAX OUTPUT TORQUE						SP250D51
TORQUE						
	Motor P	Pilot	Motor M	ount		
INPUT ²⁾	¢5.79"		4XM6 on ¢6.14' B.C		HL	SP250D51HL
MOTOR	Teeth		Module			
COUPLING	11T		0.9		11	SP250D51HL11
OUTPUT	Taper with flange				T1	SP250D51HL11T2
1) с			t flange		T2	
¹⁾ Continuous un surroundings aff ²⁾ O-rings for mot	ecting heat dis	ssipation.	Customer tes			ambient lications is strongly

³⁾ Length under stud head to end of thread equals usable stud length plus housing flange



BEARING CURVE PER RATING 100RPM AT 3000h



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

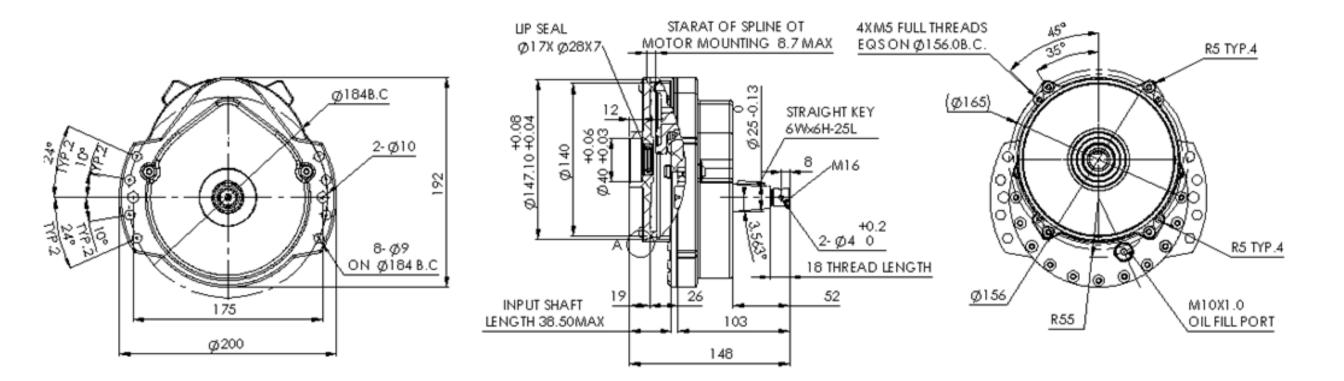
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SP260D Wheel Drive Double Reduction



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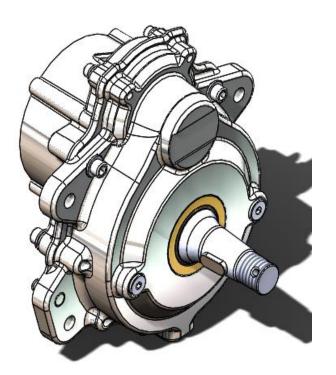
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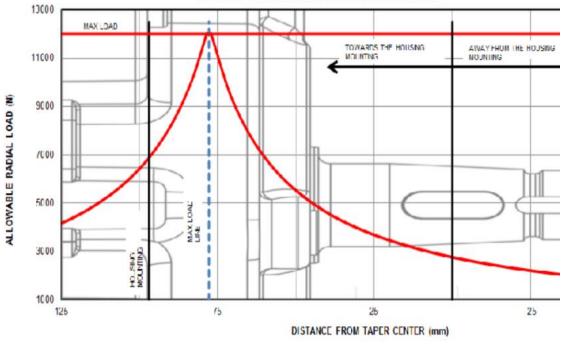


SP400D Wheel Drive Double Reduction

	3P400	D Whee	l Drive Do	uble Re	duction	
Max. Continuous torque ¹⁾ 1,905		in-lbf 215 Nm				
Max. intermitten	t torque	3,805	3,805 in-lbf 430 l		Nm	
Max. input speed	d	5,000 RPM				
Approximate wei	ight	14.3 lbs 6.5 l		kg		
Approximate oil	capacity	16.9	fl oz	0.5	L	
		F	eature Ch	art		
Feature GEAR R		ΑΤΙΟ	MAX OL TORQU		Code	Sample
	20.66	6	16	2	21	_
GEAR RATIO &	27.97		22	0	28	
MAX OUTPUT	35.93		28	2	36	SP400D51
TORQUE	42.55		33	4 43		
	50.93		400		51	
	Motor Pilot		Motor I	Nount		
INPUT ²⁾	¢4.21"		4XM6 on ¢	6 on ¢4.39' B.C HL		SP400D51GN
	¢5.31'		4xM6 on ¢5.98' B.C.		GN	
MOTOR	Teeth		Module			
MOTOR COUPLING	11T		0.9		11	SP400D51GN11
OUTPUT	Taper with flange				T1	SP400D51GN11T2
	Without flange				T2	



BEARING CURVE PER RATING 100RPM AT 3000h



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

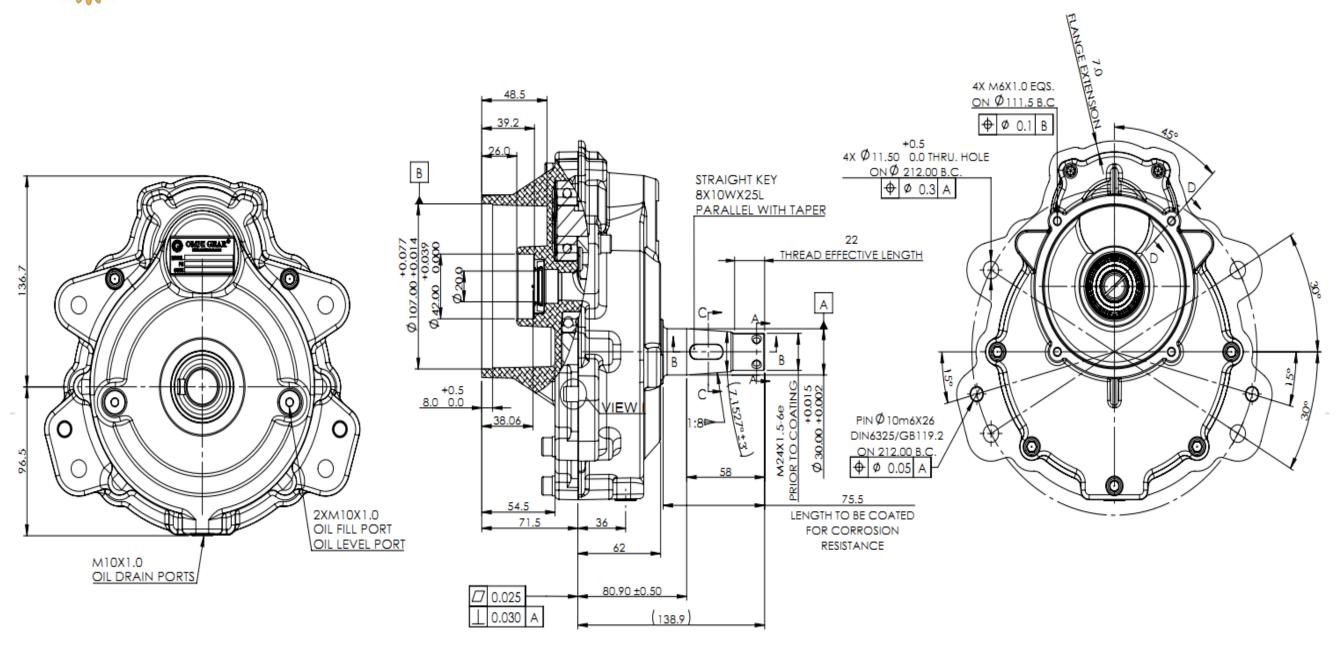
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SP400D Wheel Drive Double Reduction



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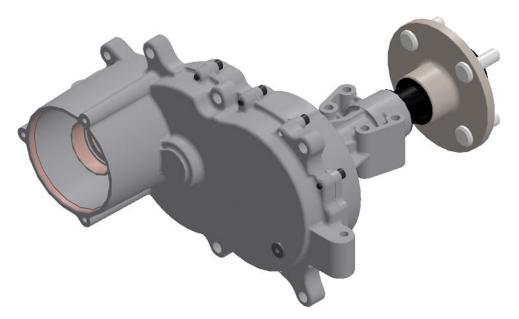
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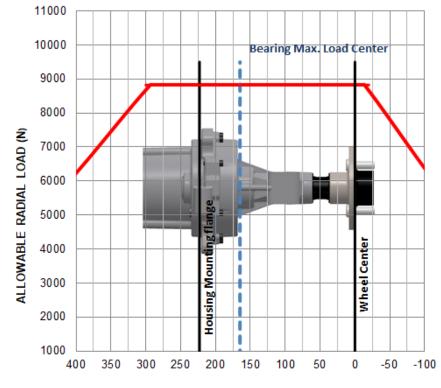
MP500 Wheel Drive Double Reduction

	MP50	0 Wheel	Double Tri	ple Rec	luction		
Max. Continuous torque ¹⁾ 2		2,213	in-lbf	250	Nm		
Max. intermittent torque		4,425 in-lbf 500		Nm			
Max. input spe	ed	5,000 RPM					
Approximate w	eight	21.0 lbs		9.5	kg		
Approximate oi	l capacity	20.1	fl oz	0.6	L		
		F	eature Cha	rt			
Feature	GEAR R	ΑΤΙΟ	MAX OUT TORQUE		Code	Sample	
	44.20)	500		44.2		
GEAR RATIO &	-		-		-		
MAX OUTPUT	-		-			MP500T44	
TORQUE	-		-		-		
	-		-		-		
	Motor Pilot		Motor Mo	ount			
INPUT ²⁾	¢4.65"		3xM6 on ¢4.69"B.C.		GN	MP500T44GN	
MOTOR	Teeth		Module				
MOTOR COUPLING	12T		1.365		12	MP500T44GN12	
	Piolt		Stud			1	
OUTPUT	ø4.0"		4x 1/2"-20UNF on		AF	MP500T44GN12AF	
001P01	-		-		-		

³⁾ Length under stud head to end of thread equals usable stud length plus housing flange



MP500 BEARING CURVE PER RATING 100RPM AT 3000h

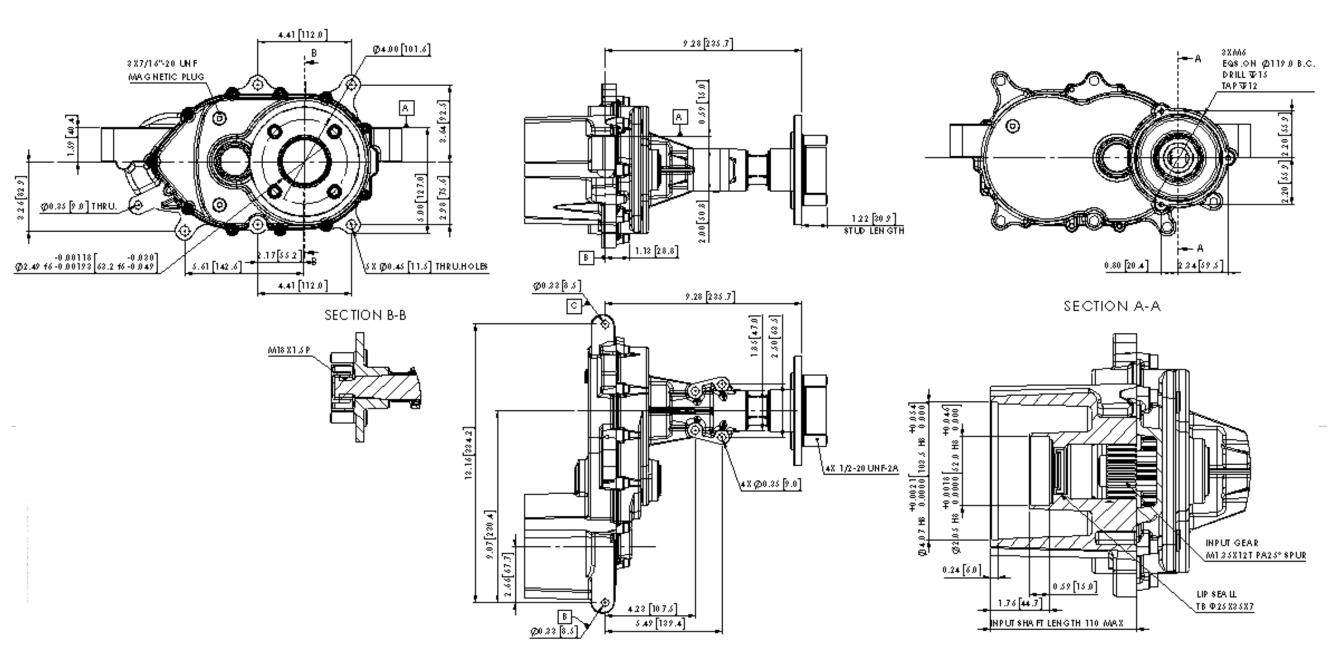


DISTANCE FROM TAPER CENTER (mm)

Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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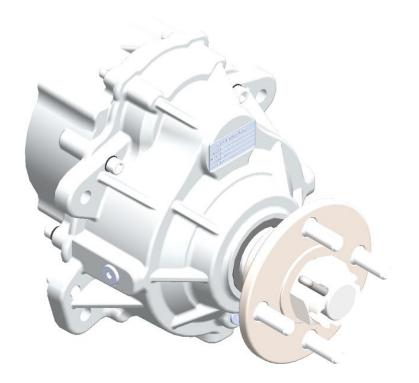
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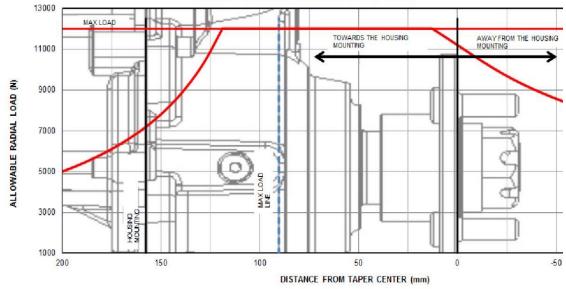


SP600D Wheel Drive Double Reduction

SP600D Wheel Drive Double Reduction							
Max. Continuous torque ¹⁾ 2,832 in-lbf			320	Nm			
		5,310	5,310 in-lbf 600		Nm		
Max. input spe	ed	5,000 RPM					
Approximate w	eight	33.2 lbs 15.0 l		kg			
Approximate oi	l capacity	20.3	fl oz	0.6	L		
			Feature C	hart			
Feature	GEAR RATIO		UTPUT UE (Nm)	Code	Sample		
	20.86		3	350	21		
GEAR RATIO &	24.43		4	10	24		
MAX OUTPUT	32.00		530 32		SP600D36		
TORQUE	36.00		600 36		36		
Motor P		tor Pilot Motor Mount		r Mount			
INPUT ²⁾	(\$5.39 kpt) kpt		4XM6 on ¢ 6.06" B.C		GN	SP600D36GN	
	Teeth		Module				
MOTOR COUPLING	11T		1		11	SP600D36GN11	
OUTPUT	Taper with flange			T1	SDC00D2CCN44T4		
OUTPUT	OUTPUT Without flange			T2	SP600D36GN11T1		
 ¹⁾ Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended. ²⁾ O-rings for motor/brake port interface not included ³⁾ Length under stud head to end of thread equals usable stud length plus housing flange 							



BEARING CURVE PER RATING 100RPM AT 3000h



Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

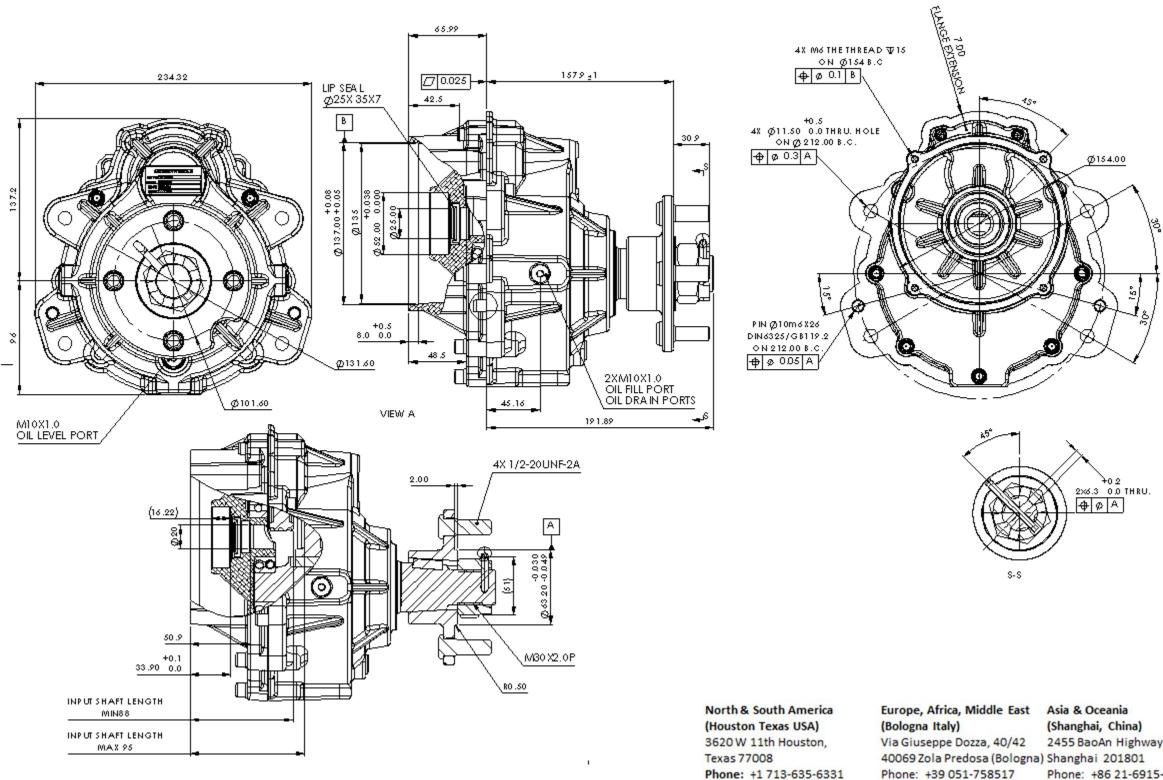
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SP600D Wheel Drive Double Reduction



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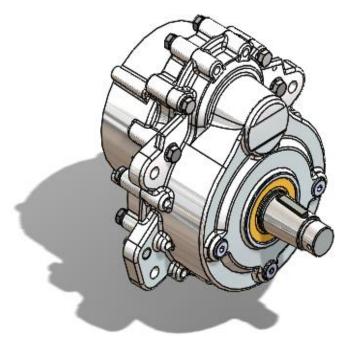
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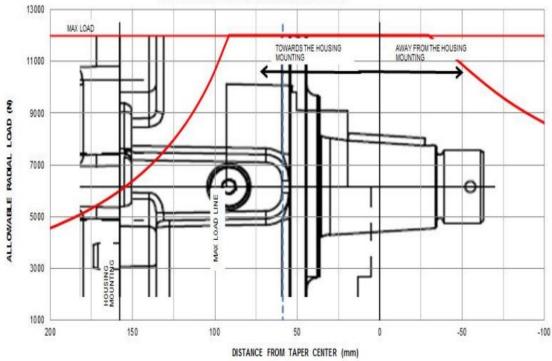
SP1200D Wheel Drive Double Reduction

	SP120	0D Whe	el Drive	Double Re	duction	
Max. Continuous torque ¹⁾ 5,310 in-lbf 600					Nm	
Max. intermitte		10,620 in-lbf 1,20		1,200	Nm	
Max. input spe	ed	5,000	RPM			
Approximate w	eight	37.6	lbs	17.0	kg	
Approximate oi	l capacity	23.7	fl oz	0.7	L	
			Feature C	hart		
Feature	GEAR RATIO			UTPUT UE (Nm)	Code	Sample
	20.0	1	Ę	550	20	
GEAR RATIO &	25.46		6	670	25	
MAX OUTPUT	31.34		8	360	31	SP1200D44
TORQUE	36.66		1	005	37	
	43.75		1200		44	
	Motor Pilot		Moto	r Mount		
INPUT ²⁾	¢5.31"		4XM6 on	l6 on ¢5.98" B.C		SP1200D44GN
	Teeth		Teeth Module			
MOTOR COUPLING	10T		1.1567		10	SP1200D44GN10
OUTPUT		Taper with flange		T1	SP1200D44GN10T2	
OULEU		Withou	ut flange		T2	3P1200044001012
	sipation. Cus	stomer tes	ting for spea	cific applicatio		mbient surroundings ngly recommended.

³⁾ Length under stud head to end of thread equals usable stud length plus housing flange



BEARING CURVE PER RATING 100RPM AT 3000h



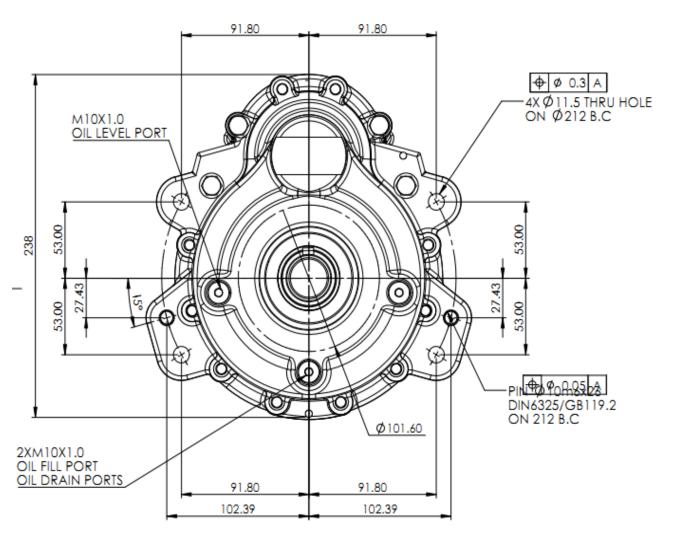
Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

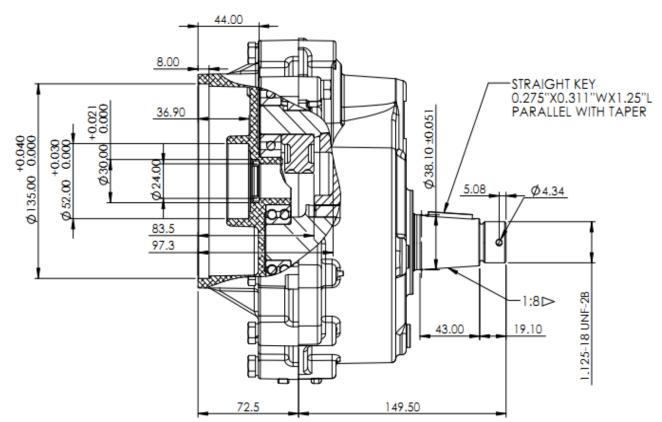
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SP1200D Wheel Drive Double Reduction





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Appendix: Application Instruction

To adjust life for loads and speeds other than shown on the curve

Life Factor (LF) =

SF x R R'

R = Allowable resultant load for a given location from the mounting flange R' = Anticipated load at location from mounting flange SF = Speed factor from table

Speed	Factors	Bearii	ng Life
Output Speed		Life Factor	
(RPM)	SF	(LF)	Hours
5	2.456	0.584	500
10	1.944	0.719	1000
20	1.620	0.812	1500
30	1.435	0.886	2000
40	1.316	0.947	2500
50	1.231	1.000	3000
60	1.165	1.047	3500
70	1.113	1.090	4000
80	1.069	1.130	4500
90	1.032	1.116	5000
100	1.000	1.231	6000
200	0.812	1.289	7000
300	0.719	1.342	8000
400	0.659	1.390	9000
500	0.617	1.435	10000

1) Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.

2) O-rings for motor/brake port interface not included

3) Length under stud head to end of thread equals usable stud length plus housing flange thickness

CAUTION: The same torsional load parameters used in calculating the driving mode must be used in the braking mode!

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