Edition: PD220125.2





Planetary Gear Drive Systems

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Introduction

Spindle: Chrome-moly froging, through hardened & precision machined. Carburized alloy forged spindles and ductile cast spindles also available.

Motor Pilots: SAE, NEMA and custom flanges available.

Drive Couplings: Splined, Keyed and custom integrated couplings to OEM request.

Bearings: Carburized & Ground Bearings standard, ISO & Timken® bearings available upon request.

Seals: Nitrile double lip oil seals standard; Viton, Metal face & Barrier Seals available.

Bearing Locknut: ISO Class external bearing retention system standard on OPH-06 an dOPH-12 series.

Hub Flanges: SAE & Metric Studs, through holes or tapped, various standard and custom bolt patterns available.

Excluder Seals: Standard on wheel drives with lip oil seals, cavity packed with grease during assembly.

Hubs: Precision Cast Carbon Steel, Ductile Iron, Gray Iron, Forged Alloy; OEM specified and OMNI supplied.

Gearing: Quiet running shaved gearing standard, ground gearing optional.

Needle Bearings: ISO Quality full compliment needle bearings standard.

Planet Shafts: Precision ground from through hardened bearing steel.

Disconnects: Standard on OPH-03, OPH-06 & OPH-12 wheel drives for quick-tow capability. Other design options available.

Carrier Housings: Precision Cast & Heat Treated Steel standard.

Ring Gears: Standard Planetaries are Forged Chrome-moly steel, through hardened, precision machined and then nitrided for long life. Differential reduction units are Forged Alloy steel, machined, diequenched and ground.

Joints: All joints are o-ringed, standard.



WD02 Wheel Drive Double Reduction



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WD02 Double Reduction- General Specifications

Max. intermittent output torque*: 15,000 lb-in (1,695Nm)

Max. input speed: 4,000 RPM
Approximate weight: 65 lbs (29.5 kg)
Approximate oil capacity: 0.10gal (0.4 liters)

Standard Features

Ratios: 11.96:1; 12.97:1

Contact OMNI GEAR for custom ratios

Spindle/Motor Pilot:

SAE 'A' motor pilot spindle standard. Contact OMNI GEAR

for other avaiable motor mount options

Motor Coupling:

13T 16/32 standard. Contact OMNI GEAR for available $\stackrel{\cdot }{\cdot \cdot}$

options

Wheel:

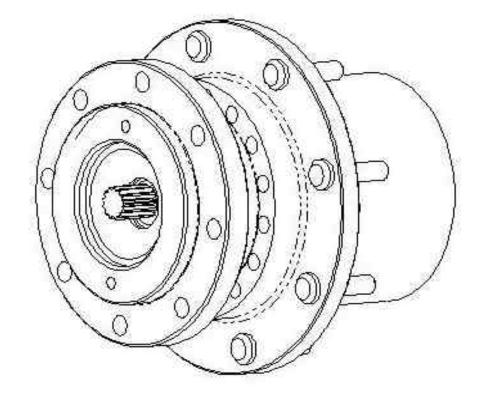
Custom housing flange pilot, hole patterns and axial positons available.

Contact OMNI GEAR for available options

Studs:

1/2"-20UNF standard. Other studs and flange hole size available.

Contact OMNI GEAR for available options



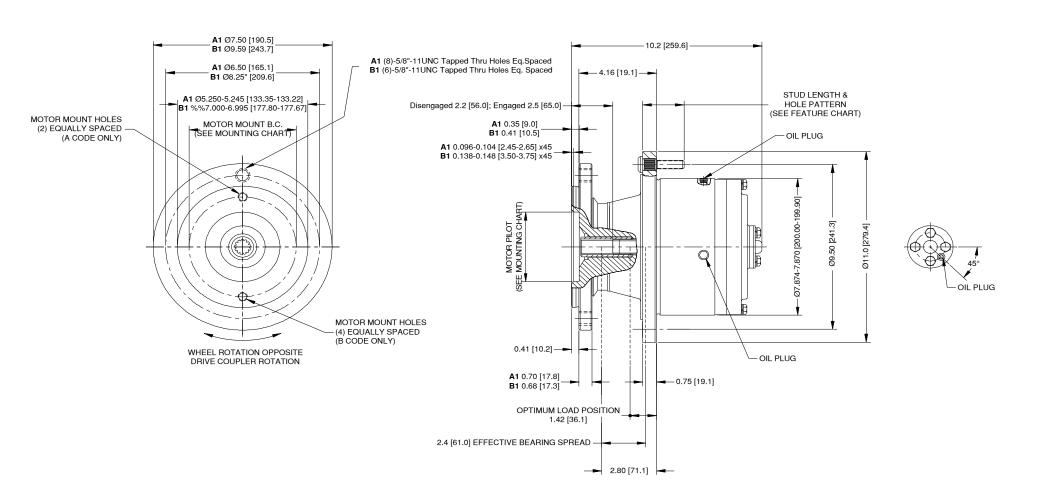


WD03 Wheel Drive Double Reduction



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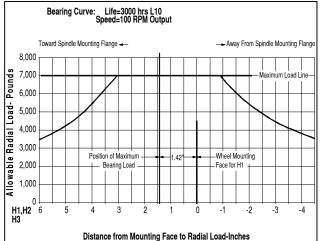
WD03 Double Reduction- General Specifications

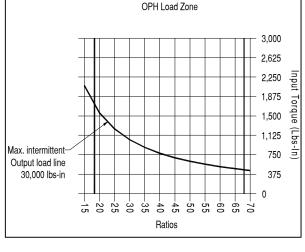
Max. intermittent output torque*: 30,000 lb-in (3,390 Nm)

Max. input speed: 4,000 RPM
Approximate weight: 90 lbs (41 kg)
Approximate oil capacity: 0.16gal (0.6 liters)

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

WD03 Feature Chart						
Feature		Code	Sample			
		Ratio				
		18.25:1		18		
		24.85:1		24		
		30.05:1		30	٧I	
Gear Ratio		35.13:1		35	WD03 60	
		40.25:1		40	60	
		49.29:1		49		
		59.50:1		60		
		68.00:1		68		
Spindle/	Motor Flange	Frame Pilot	Bolt Circle		W	
Motor Pilot	SAE A	5.250"	6.50"	A1	WD0360 B1	
	SAE B	7.000"	8.25"	B1	B1	
	Teeth	Pitch	Flange Used		W	
Motor					Doa	
Coupling	13T	16/32	A & B codes	13	WD0360B1 13	
					113	
	Pilot	Hole Pattern	Flange		WE	
Hub	7.88"	9 x .681" on 9.50" B.C.	.75"	H1	WD0360B113 H1	
	DiaPitch	Stud Length*	For Hole		WD0360B113H1 AA	
	No Studs			NS)03(
Studs	1/2"-20UNF	2.23"	.681"	AA	60B	
Siuus	9/16"-18UNF	2.23"	.681"	BA	113	
	5/8"-18UNF	2.23"	.681"	CA	¥11	
	*Usable length	equals stud lengt	h less hsg. flang	je	AA	





To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

MOUNTING CHART							
Code	Motor Mount	Pilot Diameter					
	(2) 3/8"-16UNC-2B						
A 1	Tapped .78 [20] deep	3.251-3.256 [82.58-82.70]					
	on 4.187 [106.35] B.C.						
	(4) 1/2"-13UNC-2B						
B1	Tapped Thru	4.001-4.006 [101.63-101.75]					
	on 5.750 [146.05] B.C.						

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

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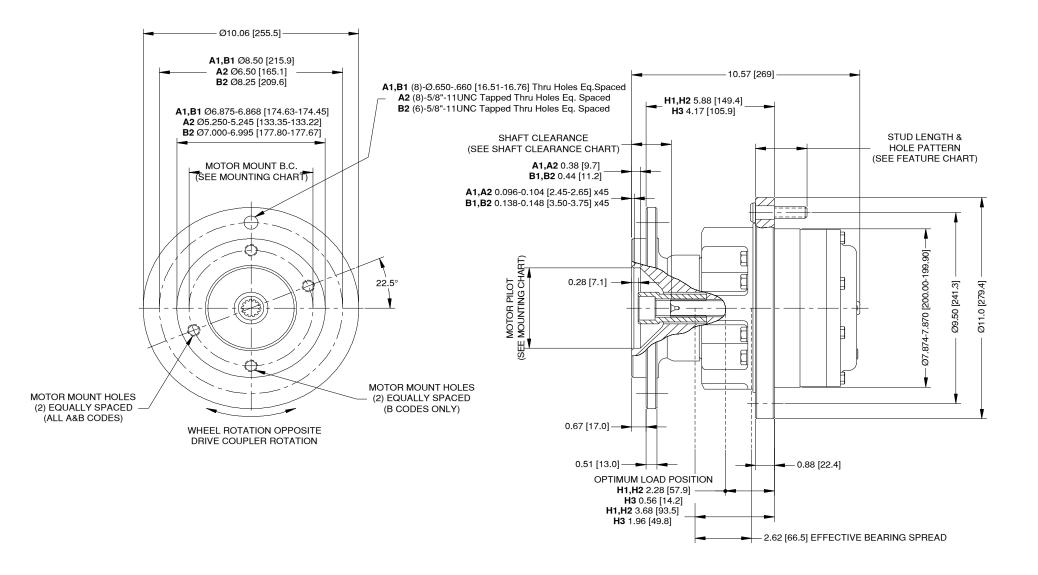


WS06 Wheel Drive Single Reduction



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WS06 Single Reduction- General Specifications

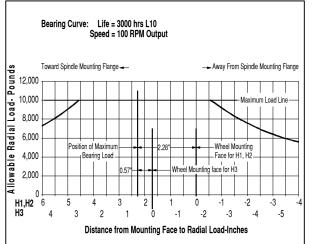
Max. intermittent output torque^{A, B}: 22,000 lb-in (2,485 Nm)

Max. input speed: 3,500 RPM
Approximate weight: 85 lbs (38.6 kg)
Approximate oil capacity: 0.21 gals (0.8 liters)

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

Note B: This rating is input limited. See OPH load zone curve for rating at ratio.

WS06 Feature Chart							
Feature		Description		Code	Sample		
		Ratio					
		2.75:1		02			
Gear Ratio		3.50:1		03	WS06 04		
		4.05:1		04	04		
		4.81:1		05			
	Motor Flange	Frame Pilot	Bolt Circle		_		
	SAE A	6.875"	8.50"	A 1	WS0604 B1		
Spindle/	SAE A	5.250"	6.50"	A2	060		
Motor Pilot	SAE B	6.875"	8.50"	B1	₽		
	SAE B	7.000"	8.25"	B2	_		
	Teeth	Pitch	Flange Used		>		
	13T	16/32	A & B codes	13	/S0		
Motor					504		
Coupling	15T	16/32	B code only	15	WS0604B1 13		
					ω		
	Pilot	Hole Pattern	Flange				
	7.88"	9 x .610"	.88"	H1	₩S		
		on 9.50" B.C.			3060		
Hub	7.88"	9 x .681"	.88"	H2	WS0604B113 H2		
		on 9.50" B.C.			113		
	7.88"	9 x .681"	.88"	Н3	H2		
		on 9.50" B.C.					
	DiaPitch	Stud Length*	For Hole		\$		
	No Studs			NS	/S0		
Studs	1/2"-20UNF	2.23"	.681"	AA	604		
Oldus	9/16"-18UNF	2.23"	.681"	BA	B11		
	5/8"-18UNF	2.23"	.681"	CA	WS0604B113H2 AA		
					2 A /		
	*Usable length e	'Usable length equals stud length less hsg. flange					

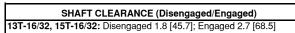


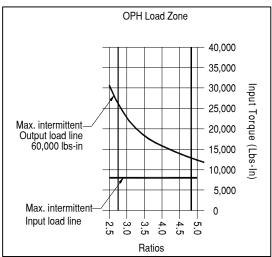
To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

	MOUNTING CHART						
Code	Motor Mount	Pilot Diameter					
	(2) 3/8"-16UNC-2B						
A1,A2	Tapped .98 [24.9] deep	3.251-3.256 [82.58-82.70]					
A1,52	on 4.187 [106.35] B.C.	0.201 0.200 [02.30 02.70]					
	2 Sets of						
	(2) 1/2"-13UNC-2B						
B1,B2	Tapped Thru	4.001-4.006 [101.63-101.75]					
	on 5.750 [146.05] B.C.						





Contact OMNI GEAR Engineering for other inputs.

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

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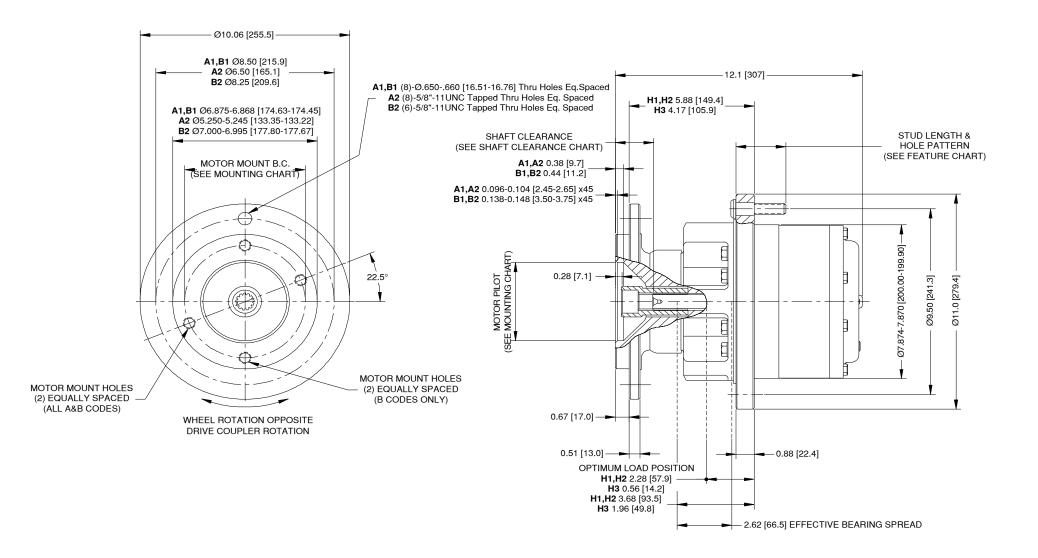


WD06 Wheel Drive Double Reduction



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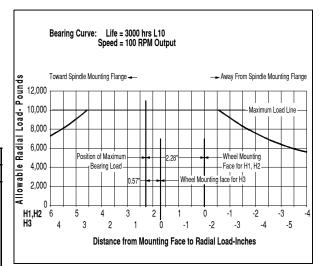
WD06 Double Reduction- General Specifications

Max. intermittent output torque*: 50,000 lb-in (5,650 Nm)

Max. input speed: 5,000 RPM
Approximate weight: 100 lbs (45.4 kg)
Approximate oil capacity: 0.26 gals (1.0 liters)

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

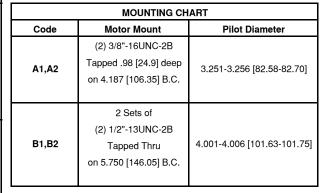
аррисацоны	s strongly recomr	ND06 Feature Ch	nart			
Feature		Description				
		Ratio			Sample	
		13.06:1		13		
		16	_			
Gear Ratio		19.62:1		20	VDΩ	
Gear Hallo		21.74:1		22	WD06 20	
		24.53:1		25	0	
		28.37:1		28		
		32.76:1		33		
	Motor Flange	Frame Pilot	Bolt Circle		1	
	SAE A	6.875"	8.50"	A1	WD0620 B1	
Spindle/	SAE A	5.250"	6.50"	A2)62(
Motor Pilot	SAE B	6.875"	8.50"	B1) B1	
	SAE B	7.000"	8.25"	B2		
	Teeth	Pitch	Flange Used		WD	
Motor	13T	16/32	A & B codes	13	062	
Coupling					WD0620B1 13	
	15T	16/32	B code only	15	13	
	Pilot	Hole Pattern	Flange			
	7.88"	9 x .610"	.88"	H1	8	
	7.00	on 9.50" B.C.	.00		D06	
Hub	7.88"	9 x .681"	.88"	H2	WD0620B113 H2	
	7.00	on 9.50" B.C.	.00		311:	
	7.88"	9 x .681"	.88"	НЗ	3 H2	
		on 9.50" B.C.				
	DiaPitch	Stud Length*	For Hole		_	
	No Studs			NS	VDO	
Studs	1/2"-20UNF	2.23"	.681"	AA)62(
Siuus	9/16"-18UNF	2.23"	.681"	ВА)B11	
	5/8"-18UNF	2.23"	.681"	CA	WD0620B113H2 AA	
	*Usable length e	quals stud length	less hsg. flange		A	

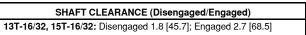


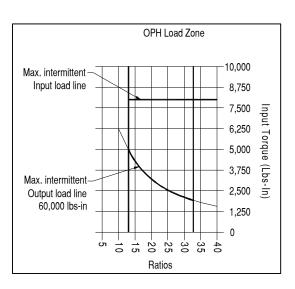
To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.







NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

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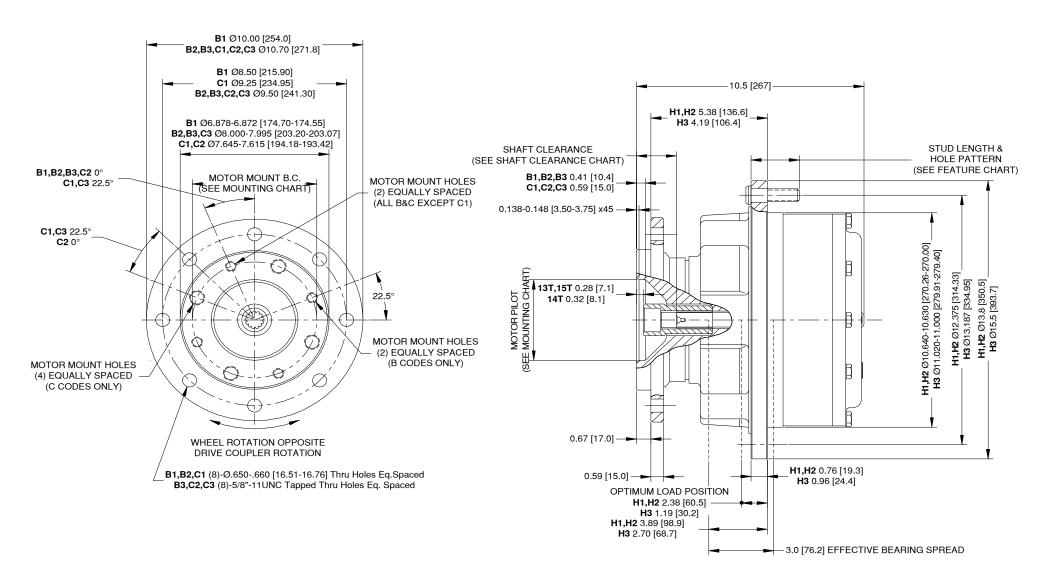


WS12 Wheel Drive Single Reduction



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WS12 Single Reduction- General Specifications

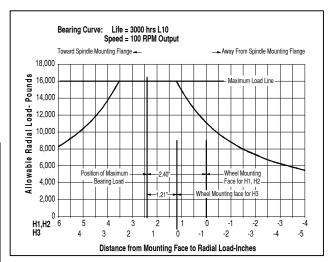
Max. intermittent output torque^{A, B}: 28,000 lb-in (3,164 Nm)

Max. input speed: 3,500 RPM
Approximate weight: 156 lbs. (71 kg)
Approximate oil capacity: 0.34 gals (1.3 liters)

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

Note B: This rating is input limited. See OPH load zone curve for rating at ratio.

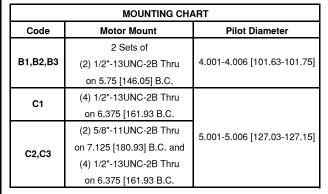
WS12 Feature Chart						
Feature		Description		Code	Sample	
	Ratio					
		3.43:1		03	_	
Gear Ratio		3.95:1		04	VS1	
acui riutio		4.65:		4A	WS12 05	
		5.00:1		05	O.	
		6.07:1		06		
	Motor Flange	Frame Pilot	Bolt Circle			
	SAE B	6.875"	8.50"	B1	_	
Spindle/	SAE B	8.000"	9.50"	B2	VS1	
Motor Pilot	SAE B	8.000"	9.50"	В3	WS1205 B3	
	SAE C	7.645"	9.25"	C1	5 B3	
	SAE C	8.000"	9.50"	C2		
	SAE C	8.000"	9.50"	C3		
	Teeth	Pitch	Flange Used		8	
	13T	16/32	B code only	13	WS1205B3 13	
Motor	14T	12/24	C code only	14	2051	
Coupling	15T	16/32	B code only	15	331	
	21T	16/32	C code only	21	3	
	Pilot	Hole Pattern	Flange			
	10.635"	8 x .610"	.76"	H1	SW	
	on 12.375" B.C.				120	
Hub	10.635"	8 x .681"	.76"	H2	WS1205B313 H2	
		on 12.375" B.C.			3131	
	11.000"	10 x .850"	.96"	Н3	H2	
		on 13.187" B.C.				
	DiaPitch	Stud Length*	For Hole		\$	
	No Studs			NS	/S12	
	1/2"-20UNF	2.23"	.681"	AA	2051	
Studs	9/16"-18UNF	2.23"	.681"	BA	B31	
	5/8"-18UNF	2.23"	.681"	CA	3H2	
	3/4"-16UNF	2.44"	.850"	DB	WS1205B313H2 BA	
	*Usable length	equals stud length	less hsg. flange)		



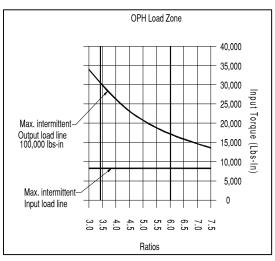
To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.







Contact OMNI GEAR Engineering for other inputs.

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

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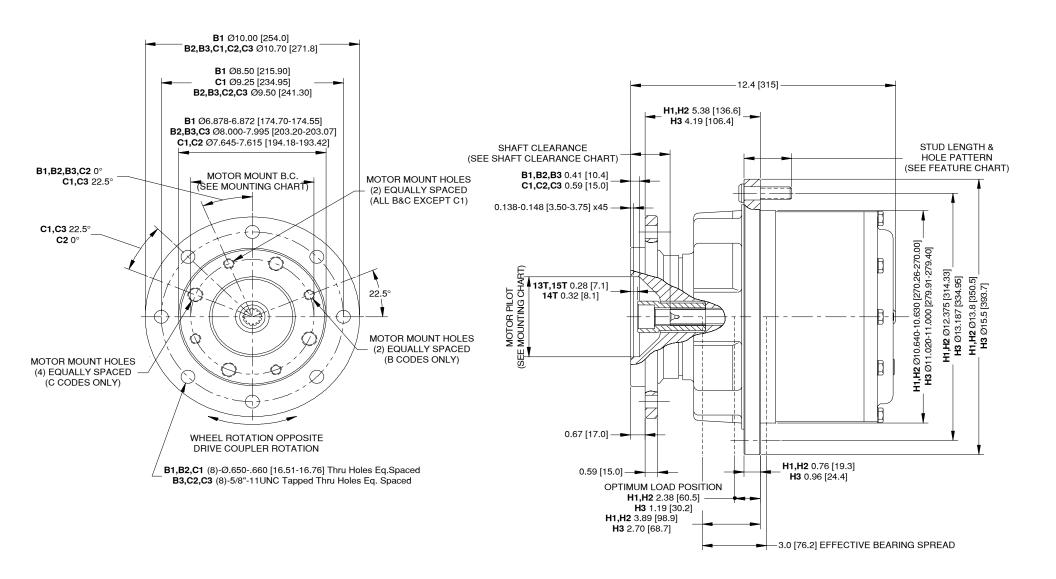


WD12 Wheel Drive Double Reduction



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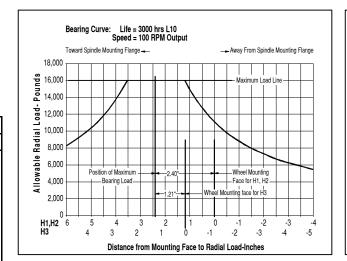
WD12 Double Reduction- General Specifications

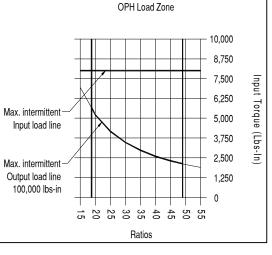
Max. intermittent output torque*: 100,000 lb-in (11,300 Nm)

Max. input speed: 5,000 RPM
Approximate weight: 210 lbs (95.5 kg)
Approximate oil capacity: 0.39 gals (1.5 liters)

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

applications i	WD12 Feature Chart					
Feature		Description		Code	Sample	
		Ratio				
	18.67:1					
		21				
		23.50:1		24	8	
Gear Ratio		26.95:1		27	WD12 3 1	
		30.89:1		31	3	
		35.00:1		35		
		41.43:1		41		
		49.01:1		49		
	Motor Flange	Frame Pilot	Bolt Circle			
	SAE B	6.875"	8.50"	B1	_	
	SAE B	8.000"	9.50"	B2	Ð	
Spindle/	SAE B	8.000"	9.50"	В3	WD1231 B3	
Motor Pilot	SAE C	7.645"	9.25"	C1	1B3	
	SAE C	8.000"	9.50"	C2		
	SAE C	8.000"	9.50"	C3		
	Teeth	Pitch	Flange Used		8	
	13T	16/32	B code only	13	WD1231B3 13	
Motor	14T	12/24	C code only	14	231	
Coupling	15T	16/32	B code only	15	331	
	21T	16/32	C code only	21	3	
	Pilot	Hole Pattern	Flange			
	10.635"	8 x .610"	.76"	H1	₩D	
		on 12.375" B.C.			123	
Hub	10.635"	8 x .681"	.76"	H2	31 B	
		on 12.375" B.C.			WD1231B313 H2	
	11.000"	10 x .850"	.96"	Н3	H2	
		on 13.187" B.C.				
	DiaPitch	Stud Length*	For Hole		8	
	No Studs			NS	WD1231B313H2 BA	
	1/2"-20UNF	2.23"	.681"	AA	.31E	
Studs	9/16"-18UNF	2.23"	.681"	ВА	331:	
	5/8"-18UNF	2.23"	.681"	CA	3½2	
	3/4"-16UNF	2.44"	.850"	DB	ĕA	
	Usable length e	equals stud length	iess risg. flange	,		





To apply the bearing curve to other design conditions:



NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

MOUNTING CHART						
Code	Motor Mount	Pilot Diameter				
	2 Sets of					
B1,B2,B3	(2) 1/2"-13UNC-2B Thru	4.001-4.006 [101.63-101.75]				
	on 5.75 [146.05] B.C.					
C1	(4) 1/2"-13UNC-2B Thru					
0.	on 6.375 [161.93 B.C.					
	(2) 5/8"-11UNC-2B Thru	5.001-5.006 [127.03-127.15]				
C2,C3	on 7.125 [180.93] B.C. and	0.001 0.000 [127.00 127.10]				
02,00	(4) 1/2"-13UNC-2B Thru					
	on 6.375 [161.93 B.C.					

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general purposes only. Not to be used for
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If specific information is not present for your application or dimensional information. Please contact OMNI GEAR.

subject to change.

SHAFT CLEARANCE (Disengaged/Engaged)

13T-16/32, 15T-16/32: Disengaged 1.9 [48]; Engaged 2.8 [71]

14T-12/24: Disengaged 2.4 [61]; Engaged 3.2 [83]





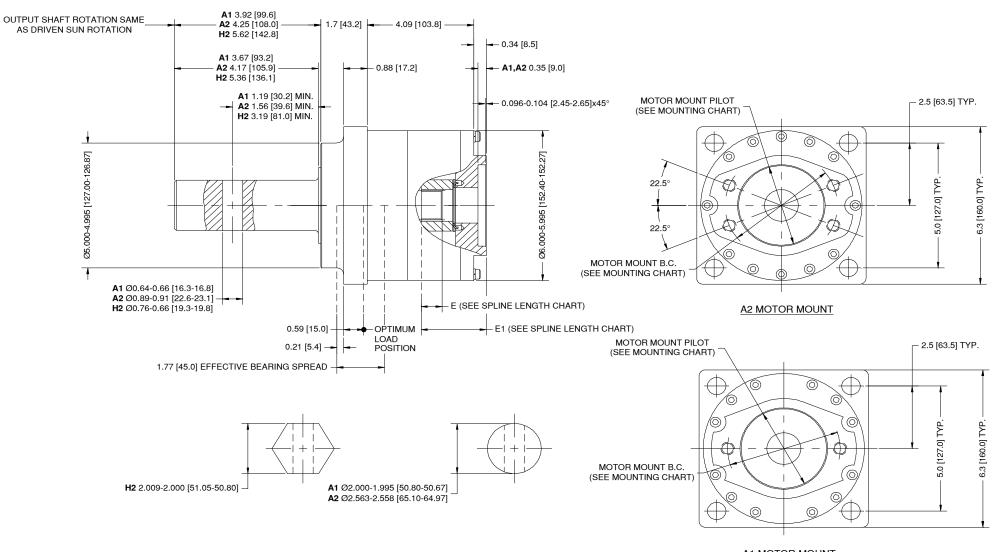
SS02 Shaft Output Drive Single Reduction



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All Dimensions in INCHES [mm]



A1 MOTOR MOUNT



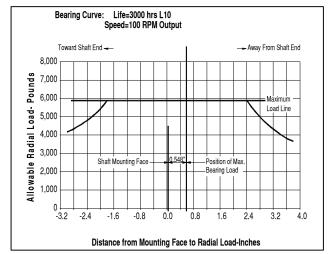
SS02 Single Reduction- General Specifications

Max. intermittent output torque*: 15,000 lb-in (1,695 Nm)

Max. input speed: 4,000 RPM
Approximate weight: 65 lbs (29.5 kg)
Approximate Oil capacity: 0.08 gals (0.3 liters)

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

SS02 Feature Chart							
Feature		Code	Sample				
			Ratio			SS	
Gear Ratio			3.60:1		03	SS02 03	
	Motor Flange	Fr	ame Pilot	Hole Pattern		SS	
Motor Mount	SAE A		3.25"	(2) 1/2"-13UNC-2B	A 1	SS0203 A1	
	SAE A		3.25"	2 x (2) 1/2-13UNC-2B	A2	Ã1	
	Teeth		Pitch			SS	
Input Spline	13T		16/32		13	SS0203A1 14	
Input opinic	14T	12/24			14	3A1:	
						14	
		Dia.	Hole Dia.	Ext. length		လ္က	
		2.00"	.64"	3.67"	A1	S020	
Output	Round					03A:	
		2.56"	.90"	4.17"	A2	SS0203A114 A2	
	Hex	2.00"	.76"	5.38"	H2	ź.	
	Pilot		Hole Pattern	Flange		S	
Hub	5.00"		4 x .688" on 7.07" B.C.	.88"	НА	SS0203A114A2 HA	



To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

MOUNTING CHART				
Code	Motor Mount	Pilot Diameter		
A1	(2) 1/2"-13UNC-2B Thru	3.251-3.255 [82.58-82.70]		
Α'	on 4.188 [106.38] B.C.	0.231 0.233 [02.30 02.70]		
A2	2x(2) 1/2"-13UNC-2B Thru	3.251-3.255 [82.58-82.70]		
~~	on 4.188 [106.38] B.C.	0.231-0.233 [02.30-02.70]		

SPLINE LENGTHS				
Code	Teeth	Е	E1	
A1/A2	13	0.73 [18.5]	1.65 [42.0]	
A1/A2	14	0.85 [21.5]	2.34 [59.5]	

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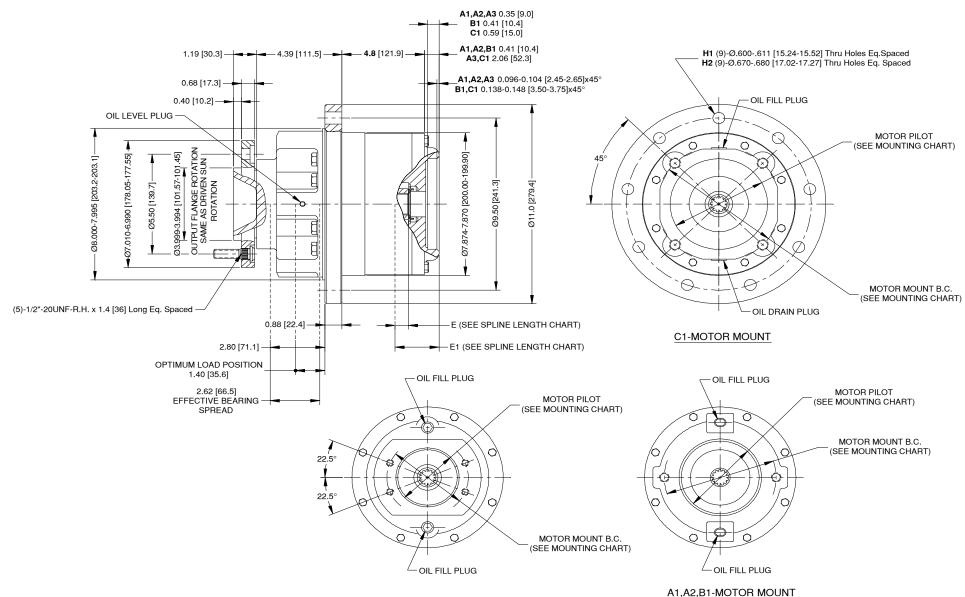


SS06 Flange Output Drive Single Reduction



PHONE: 713-635-6331 FAX: 713-635-6330

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SS06 Single Reduction- General Specifications

Max. intermittent output torque^{A,B}: 30,000 lb-in (3,390 Nm)

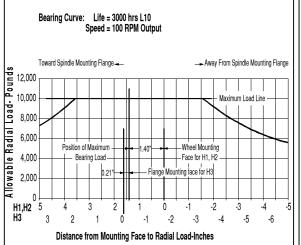
Max. input speed: 3,500 RPM
Approximate weight: 85 lbs (38.6 kg)
Approximate oil capacity: 0.21 gals (0.8 liters)

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

Note B: This rating is input limited. See OPH load zone curve for rating at ratio.

SS06 Feature Chart							
Feature			Code	Sample			
	Ratio	Motor	Mount Usage	Input Spline Usage			
	3.75:1		All codes	All codes	03	SS	
Gear Ratio	4.50:1		All codes	All codes	04	SS06 04	
	5.05:1		All codes	All codes**	05	4	
	5.81:1	Α	1, A2 & B	13	06		
	Motor Flange	Fı	ame Pilot	Hole Pattern			
	SAE A		3.25"	2	A1	Ø	
Motor Mount	SAE A		3.25"	2	A2	S06	
WIGIOI WIGUIII	SAE A		3.25"	2 x 2	A 3	SS0604 A2	
	SAE B		4.00"	2	B1		
	SAE C		5.00"	4	C1		
	Teeth		Pitch	Motor Flange Used		SS	
Input Spline	13T	16/32		A1, A2 & B1 codes	13	SS0604A2 13	
iliput Spilile	14T		12/24	A1, A2, A3 & C1 codes	14	4A2	
	6T	1	1.00" Dia.	A1 & A2 codes	6B	13	
		Pilot	Hole Size	Hole Pattern		S	
Output	Flanged	4.00"	1/2"-20UNF-STUD	5x72 on 5.50" B.C.	FS	SS0604A213 FS	
	Pilot		Hole Pattern	Flange		SSO	
	8.00"		9 x .610"	.88"	H1	SS0604A213FS H1	
Hub			on 9.50" B.C.			A21	
	8.00"		9 x .680"	.88" H		3FS	
			on 9.50" B.C.			Ĭ	

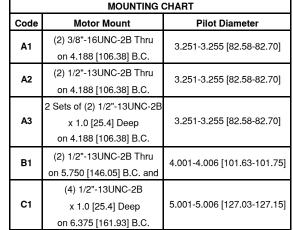
^{**5.05:1} ratio with 14T input spline not available with motor codes A1 or A2

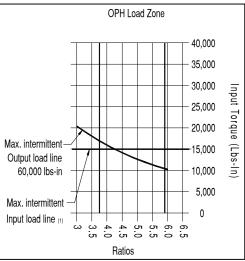


To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.





(1) Max. intermittent input load line shown is for 14T input. Contact OMNI GEAR Engineering for other inputs.

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

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SPLINE LENGTHS					
Code Teeth E			E1		
A1/A2	13	0.65 [16.5]	1.87 [47.5]		
A1/A2	14	1.04 [26.5]	2.26 [57.5]		
A1/A2	6B	0.83 [21.0]	2.05 [52.0]		
A3/C1	14	0.94 [24.0]	2.22 [56.5]		
B1	13/15	0.65 [16.5]	1.87 [47.5]		



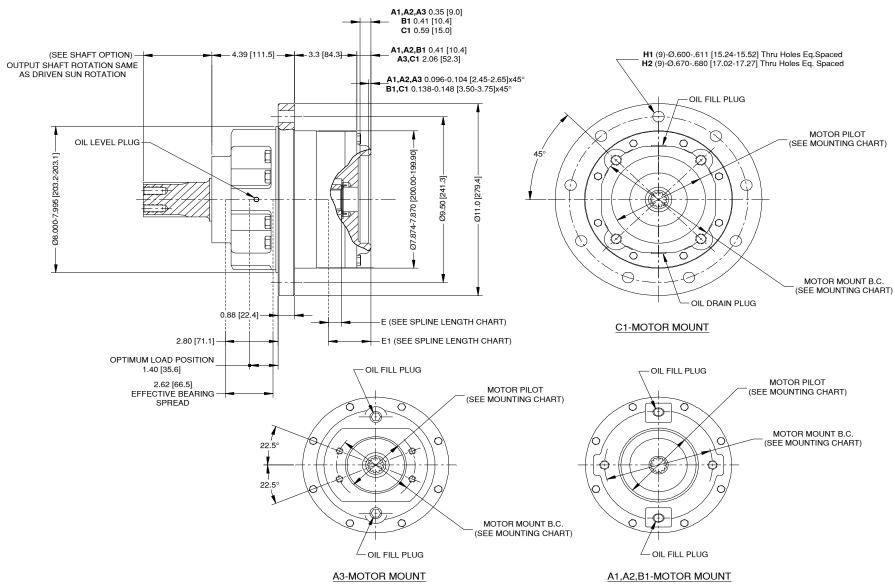


SS06 Shaft Output Drive Single Reduction



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SS06 Single Reduction- General Specifications

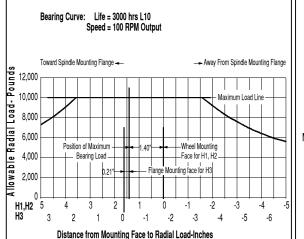
Max. intermittent output torque^{A, B}: 30,000 lb-in (3,390 Nm)

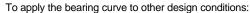
Max. input speed:3,500 RPMApproximate weight:85 lbs (38.6 kg)Approximate oil capacity:0.18 gals (0.7 liters)

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

Note B: This rating is input limited. See OPH load zone curve for rating at ratio.

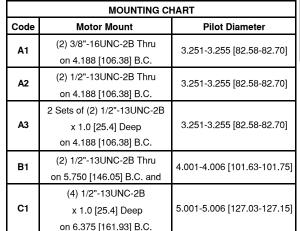
SS06 Feature Chart								
Feature	Description					Code	Sample	
	Ratio	Motor N	lount Usage	Input 9	Spline Usage			
Gear Ratio	3.75:1	Al	l codes	A	All codes 03		တ္တ	
	4.50:1	Al	l codes	A	All codes	04	SS06 04	
	5.05:1	Al	l codes	Al	I codes**	05	4	
	5.81:1	A1	, A2 & B		13	06		
	Motor Flange	Fra	me Pilot	Но	le Pattern			
	SAE A		3.25"		2	A1	S	
Motor Mount	SAE A		3.25"		2	A2	SS0604 A2	
Motor Mount	SAE A		3.25"		2 x 2	A3	04 A	
	SAE B		4.00"		2	B1		
	SAE C		5.00"	00" 4		C1		
	Teeth	Pitch Motor Flange Used		Flange Used		SS		
Input Spline	13T		16/32	A1, A2	2 & B1 codes	13	SS0604A2 13	
mpar opinio	14T	12/24 A1, A2,		A3 & C1 codes	14	4A2		
	6T	1.0	1.00" Dia. A1 & A2 codes		6B	చ		
		Teeth-DP	Spline Typ	e Fit	Ext. length			
	Splined	23-12/24	Flat root-side f	it-class 6	3.67"	AL		
	ANSI	23-12/24	Flat root-side f	it-class 6	2.79"	AS	SS	
	92.1-1970	17-12/24	Flat root-side f	it-class 6	2.06"	BS	3060	
Output	Keyed	Dia./Hex flat	Key/Hole	Dia.	Ext. length		SS0604A213 AL	
		2.00"	1/2 Sq		3.67"	KA	13 A	
	Round	2.00"	.64"		3.67"	A1	F	
		2.56"	.90"		4.17"	A2		
	Hex	2.00"	.76"		5.38"	H2		
Hub	Pilot		Hole Pattern		Flange		δ	
							S060	
	8.00"		9 x .610"		.88"	H1	04A	
			on 9.50" B.C.				213/	
	8.00"		9 x .680"		.88"	H2	SS0604A213AL H1	
			on 9.50" B.C.					

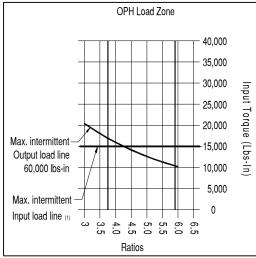






NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.





(1) Max. intermittent input load line shown is for 14T input.

Contact OMNI GEAR Engineering for other inputs.

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

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SPLINE LENGTHS					
Code	E1				
A1/A2	13	0.65 [16.5]	1.87 [47.5]		
A1/A2	14	1.04 [26.5]	2.26 [57.5]		
A1/A2	6B	0.83 [21.0]	2.05 [52.0]		
A3/C1	14	0.94 [24.0]	2.22 [56.5]		
B1	13/15	0.65 [16.5]	1.87 [47.5]		



^{**5.05:1} ratio with 14T input spline not available with motor codes A1 or A2.

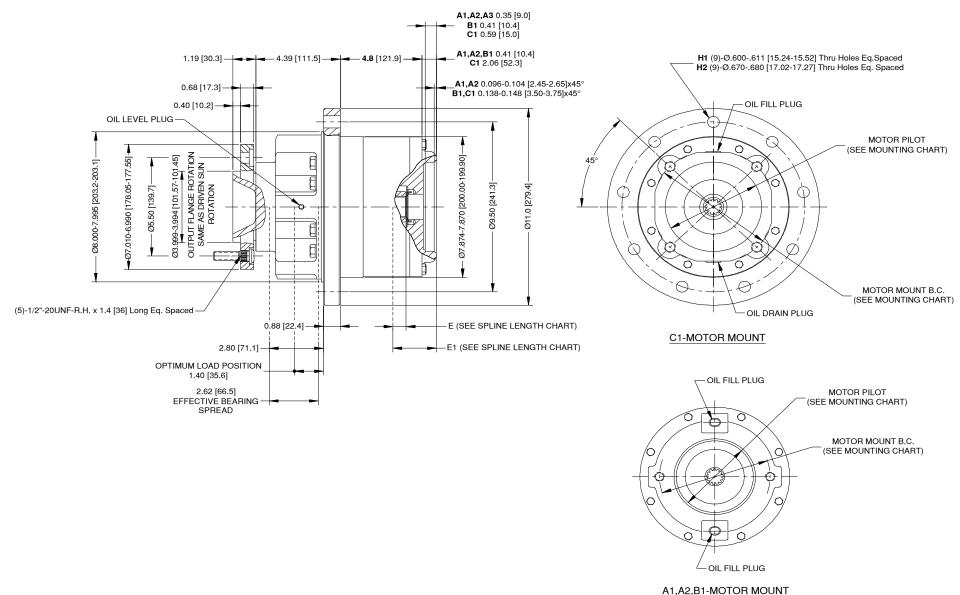


SD06 Flange Output Drive Double Reduction



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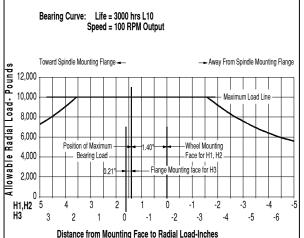
SD06 Double Reduction- General Specifications

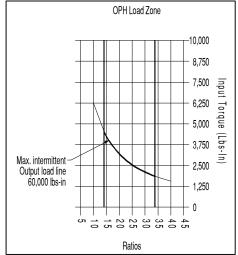
Max. intermittent output torque*: 50,000 lb-in (5,650 Nm)

Max. input speed: 5,000 RPM
Approximate weight: 100 lbs (45.4 kg)
Approximate oil capacity: 0.26 gals (1.0 liters)

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

SD06 Feature Chart						
Feature		Description		Code	Sample	
	Ratio	Motor Mount Usage	Input Spline Usage			
	14.06:1	All codes	All codes	14		
	16.88:1	All codes	All codes	17		
Gear Ratio	20.62:1	All codes	All codes	21	SD06 26	
acai nano	22.74:1	All codes	All codes	23	6 26	
	25.53:1	A1, A2 & B1	13, 15 & 6B codes	26		
	29.37:1	A1, A2 & B1	13 code	29		
	33.76:1	A1, A2 & B1	13 code	34		
	Motor Flange	Frame Pilot	Hole Pattern			
	SAE A	3.25"	2	A1	SDO	
Motor Mount	SAE A	3.25"	2	A1 SD0626 A2 B1		
	SAE B	4.00"	2 B1		Ã2	
	SAE C	5.00" 4		C1		
	Teeth	Pitch	Motor Flange Used		(O	
	13T	16/32	A1, A2 & B1 codes	13	SD0626A2 13	
Input Spline	14T	12/24	C1 code	14	326A	
	15T	16/32	B1 code	15	2 13	
	6T	1.00" Dia.	A1 & A2 codes	6B		
		Pilot Hole Size	Hole Pattern		38	
Output	Flanged	4.00" 1/2"-20UNF STUD	5 on 5.50" B.C.	FS	SD0626A213 FS	
	Pilot	Hole Pattern	Flange		(0	
Hub	8.00"	9 x .610"	.88"	H1	SD0626A213FS H1	
		on 9.50" B.C.			?13F	
	8.00"	9 x .680" on 9.50" B.C.	.88"	H2	S H1	





To apply the bearing curve to other design conditions:

Design life (hrs)=3000 (100 RPM) × (allowable radial load (curve)
Design RPM) × (Design RPM) × (allowable radial load

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

	MOUNTING CHART					
Code	Motor Mount	Pilot Diameter				
A1	(2) 3/8"-16UNC-2B Thru	3.251-3.255 [82.58-82.70]				
	on 4.188 [106.38] B.C.					
A2	(2) 1/2"-13UNC-2B Thru	3.251-3.255 [82.58-82.70]				
	on 4.188 [106.38] B.C.					
B1	(2) 1/2"-13UNC-2B Thru	4.001-4.006 [101.63-101.75]				
	on 5.750 [146.05] B.C. and					
	(4) 1/2"-13UNC-2B					
C1	x 1.0[25.4] Deep	5.001-5.006 [127.03-127.15]				
	on 6.375 [161.93] B.C.					

SPLINE LENGTHS						
Code	ode Teeth E E1					
A1/A2	13	0.65 [16.5]	1.87 [47.5]			
A1/A2	14	1.04 [26.5]	2.26 [57.5]			
A1/A2	6B	0.65 [16.5]	1.87 [47.5]			
C1	14	0.94 [24.0]	2.22 [56.5]			
В1	13/15	0.65 [16.5]	1.87 [47.5]			

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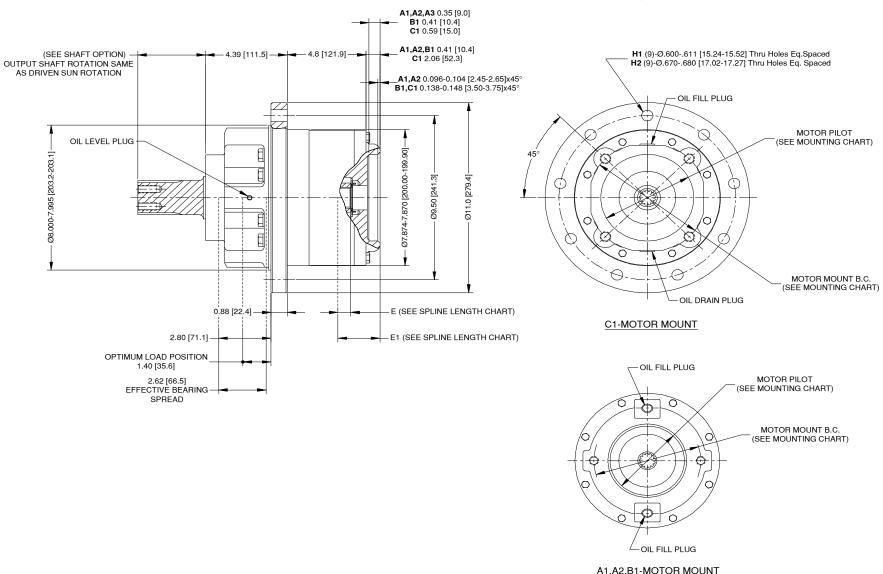


SD06 Shaft Output Drive Double Reduction



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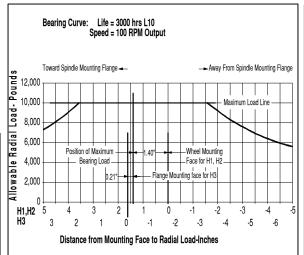
SD06 Double Reduction- General Specifications

Max. intermittent output torque*: 50,000 lb-in (5,650 Nm)

Max. input speed: 5,000 RPM
Approximate weight: 100 lbs (45.4 kg)
Approximate oil capacity: 0.26 gals (1.0 liters)

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

SD06 Feature Chart								
Feature			Description			Code	Sample	
	Ratio	Motor N	lount Usage	Input	Spline Usage			
	14.06:1	Al	l codes	A	All codes	14		
	16.88:1	Al	All codes		All codes	17		
Gear Ratio	20.62:1	All codes		A	All codes	21	SD06 26	
deal Hallo	22.74:1	Al	l codes	A	All codes	23	6 26	
	25.53:1	A1,	A2 & B1	13, 15	5 & 6B codes	26		
	29.37:1	A1,	A2 & B1		13 code	29		
	33.76:1	A1,	A2 & B1		13 code	34		
	Motor Flange	Fra	me Pilot	Но	le Pattern			
	SAE A		3.25"		2	A1	SDO	
Motor Mount	SAE A		3.25"		2	A2	SD0626 A2	
	SAE B		4.00"		2	B1	Ã2	
	SAE C	5.00"		4		C1		
	Teeth	Pitch Motor		Flange Used				
	13T	16/32 A		A1, A	A1, A2 & B1 codes		SD0626A2 13	
Input Spline	14T	12/24		(C1 code	14	526/	
	15T	16/32		- 1	B1 code	15	213	
	6T	1.0	00" Dia.	A1 a	& A2 codes	6B	-	
		Teeth-DP	Spline Typ	e Fit	Ext. length			
	Splined	23-12/24 Flat root-side fit-class 6 3.67"		3.67"	AL			
	ANSI	23-12/24	Flat root-side fi	t-class 6	2.79"	AS	18	
	92.1-1970	25-12/24 Tat 100t-side III-class 0 2.79		7.0)062			
Output	Keyed	Dia./Hex flat	Key/Hole	Dia.	Ext. length		SD0626A213 AL	
	,cu	2.00"	1/2 Sq.		3.67"	KA	134	
	Round	2.00"	.64"		3.67"	A1	F	
	riouna	2.56"	.90"		4.17"	A2		
	Hex	2.00" .76"			5.38"	H2		
	Pilot		Hole Pattern		Flange		<u>S</u>	
							D06:	
Hub	8.00"		9 x .610"		.88"	H1	26A;	
1.00			on 9.50" B.C.				213/	
	8.00"		9 x .680"		.88"	H2	SD0626A213AL H1	
			on 9.50" B.C.					

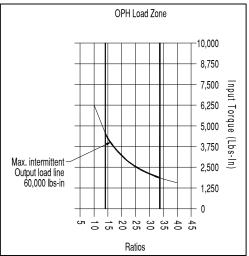


To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

	MOUNTING CHART					
Code	Motor Mount	Pilot Diameter				
A 1	(2) 3/8"-16UNC-2B Thru	3.251-3.255 [82.58-82.70]				
Α'	on 4.188 [106.38] B.C.	0.231-0.233 [02.30-02.70]				
A2	(2) 1/2"-13UNC-2B Thru	3.251-3.255 [82.58-82.70]				
	on 4.188 [106.38] B.C.	0.231 0.233 [02.30 02.70]				
B1	(2) 1/2"-13UNC-2B Thru	4.001-4.006 [101.63-101.75]				
	on 5.750 [146.05] B.C. and	4.001 4.000 [101.00 101.70]				
	(4) 1/2"-13UNC-2B					
C1	x 1.0[25.4] Deep	5.001-5.006 [127.03-127.15]				
	on 6.375 [161.93] B.C.					



NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

SPLINE LENGTHS					
Code	Teeth	E	E1		
A1/A2	13	0.65 [16.5]	1.87 [47.5]		
A1/A2	14	1.04 [26.5]	2.26 [57.5]		
A1/A2	6B	0.65 [16.5]	1.87 [47.5]		
C1	14	0.94 [24.0]	2.22 [56.5]		
B1	13/15	0.65 [16.5]	1.87 [47.5]		

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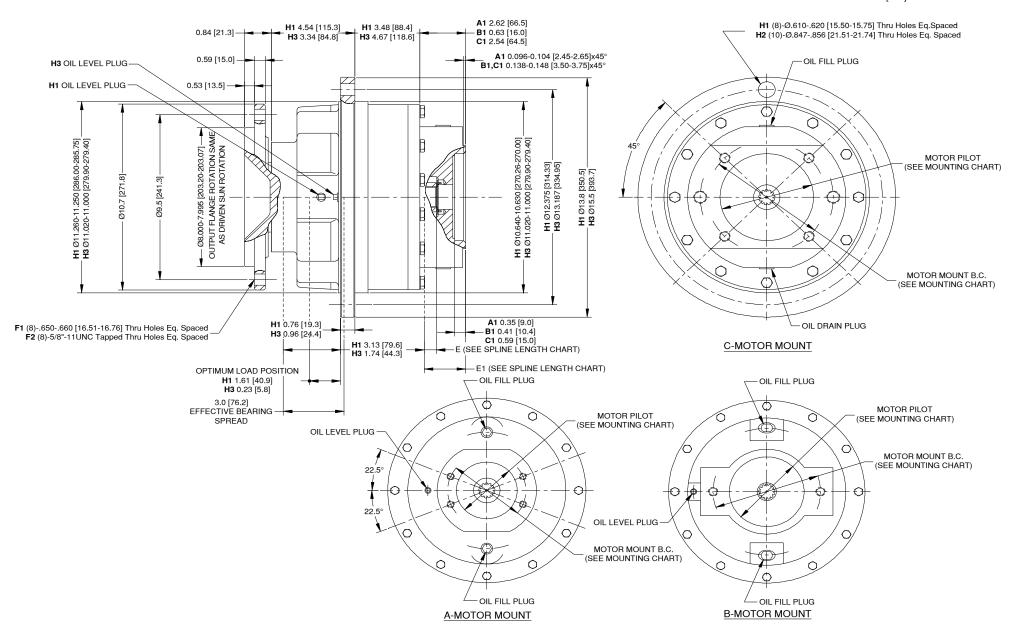




SS12 Flange Output Drive Single Reduction



PHONE: 713-635-6331 FAX: 713-635-6330 EMAIL: sales@omnigear.com WEBSITE: www.omnigear.com





SS12 Single Reduction- General Specifications

Max. intermittent output torque^{A,B}: 36,000 lb-in (4,067 Nm)

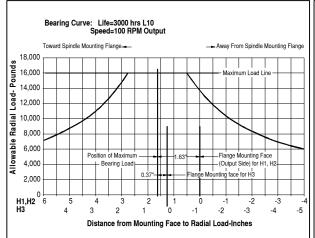
Max. input speed: 3,500 RPM
Approximate weight: 156 lbs (71 kg)
Approximate oil capacity: 0.39 gals (1.5 liters)

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

Note B: This rating is input limited. See OPH load zone curve for rating at ratio.

SS12 Feature Chart						
Feature			Description		Code	Sample
			Ratio			
			4.43:1		04	
Gear Ratio	4.95:1				05	SS12 05
Godi Hatio		5.65:1				2 05
			6.00:1		06	
			7.07:1		07	
	Motor Flange	Fra	me Pilot	Hole Pattern		S
Motor Mount	SAE A		3.25"	2 & 4 bolts	A1	SS1205 B1
Motor Mount	SAE B		4.00"	2 bolts	B1	05 B
	SAE C		5.00"	2 & 4 bolts	C1	1
	Teeth		Pitch	Flange Used		SS
Input Spline	13T	16/32		B code only	13	SS1205B1 13
input opinio	14T		12/24	C code only	14	5B1
	6T	1.0	00" Dia.	B code only	6B	13
		Pilot	Hole Size	Hole Pattern		SS
Output	Flanged	8.00"	5/8"-11UNC	8 on 9.50" B.C.	F1	SS1205B113 F1
		8.00"	0.69"	8 on 9.50" B.C.	F2	113 F1
Hub	Pilot	Hole	e Pattern	Flange		SS
	11.250"	8 x .610" .		.76"	H1	1205
		on 12.375" B.C.			ìВ11	
	11.000"	10 x .850" .96"		НЗ	SS1205B113F1 H1	
		on 13	3.187" B.C.			표

SPLINE LENGTHS					
Code	Teeth	E	E1		
A1	14	0.79 [20.0]	2.40 [61.0]		
A1	6B	0.65 [16.5]	2.07 [52.5]		
B1	13	0.63 [16.0]	1.75 [44.5]		
C1	14	0.79 [20.0]	2.32 [59.0]		

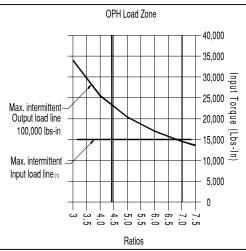


To apply the bearing curve to other design conditions:



NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

	MOUNTING CHART						
Code	Motor Mount	Pilot Diameter					
A 1	(2) 1/2"-13UNC-2B x 0.88 [22.4] Deep on 4.188 [106.38] B.C.	3.251-3.255 [82.58-82.68]					
B1	(2) 1/2"-13UNC-2B Thru on 5.750 [146.05] B.C.	4.001-4.006 [101.63-101.75]					
C1	(2) 5/8"-11UNC-2B x 1.25[38.1] DP on 7.125 [180.93] B.C. and (4) 1/2"-13UNC-2B x 1.0[25.4] DP on 6.375 [161.93] B.C.	5.001-5.006 [127.03-127.15]					



(1) max. intermittent input load line shown is for 14T input. Contact OMNI GEAR Engineering for other inputs.

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

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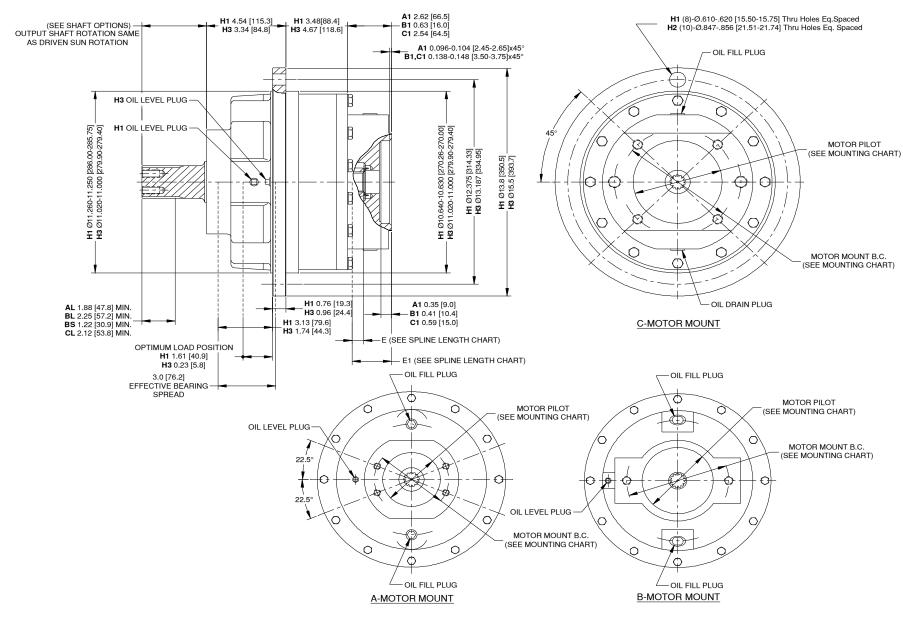




SS12 Shaft Output Drive Single Reduction



PHONE: 713-635-6331 FAX: 713-635-6330 EMAIL: sales@omnigear.com WEBSITE: www.omnigear.com





SS12 Single Reduction- General Specifications

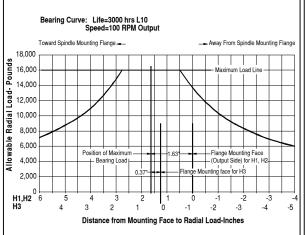
Max. intermittent output torque^{A, B}: 36,000 lb-in (4,067 Nm)

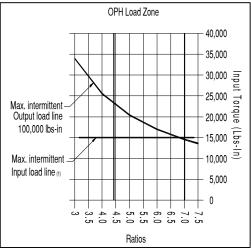
Max. input speed: 3,500 RPM
Approximate weight: 156 lbs (71 kg)
Approximate oil capacity: 0.39 gals (1.5 liters)

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

Note B: This rating is input limited. See OPH load zone curve for rating at ratio

Description Code Gear Ratio 4.43:1 04 4.95:1 5.65 5A 6.00:1 06 6.00:1 07 Motor Mount SAE A 3.25" 2 & 4 bolts A1 SAE B 4.00" 2 bolts B1 SAE C 5.00" 2 & 4 bolts C1 SAE A 133" 16/32 B code only 13 14T 12/24 C code only 14 6T 1.00" Dia. B code only 6B ANSI 23-12/24 Flat root-side fit-class 6 2.25" BL ANSI 23-8/16 Flat root-side fit-class 6 2.25" BS 92.1-1970 23-8/16 Flat root-side fit-class 6 2.12" CL Keyed Dia./Hex flat Key/Hole Dia. Ext. length Round 2.00" 1/2 Sq. 3.60" KA A.1 2.56" .90" 4.17" A2 Hex 2.00" .64"				S12 Feature Chart	s			
A.43:1	Sample	Code		Description			Feature	
Motor Mount Motor Flange Frame Pilot Hole Pattern				Ratio				
Same	SS12 05	04						
Motor Mount SAE A SAE B A.00" 2 & 4 bolts B1		05		4.95:1			Gear Ratio	
Motor Flange Frame Pilot Hole Pattern	2 05	5A		5.65:1			GCUI TIUTIO	
Motor Flange Frame Pilot Hole Pattern SAE A 3.25" 2 & 4 bolts A1 SAE B 4.00" 2 bolts B1 SAE C 5.00" 2 & 4 bolts C1 Input Spline Teeth Pitch Flange Used 13T 16/32 B code only 13 14T 12/24 C code only 14 6T 1.00" Dia. B code only 6B Splined 23-12/24 Flat root-side fit-class 6 1.88" AL ANSI 23-8/16 Flat root-side fit-class 6 2.25" BL 92.1-1970 23-8/16 Flat root-side fit-class 6 2.12" CL Keyed Dia./Hex flat Key/Hole Dia. Ext. length 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2		06		6.00:1				
SAE A SAE B SAE C SAE		07		7.07:1				
SAE B SAE C S.00" 2 & 4 bolts C1	S		Hole Pattern	Frame Pilot		Motor Flange		
SAE B SAE C S.00" 2 & 4 bolts C1	SS1205 B1	A1	2 & 4 bolts	3.25"		SAE A	Motor Mount	
Teeth	.05 B	B1	2 bolts	4.00"		SAE B	MOTOL MOULT	
13T	=	C1	2 & 4 bolts	5.00"		SAE C		
Teeth-DP Spline Type Fit Ext. length	SS		Flange Used	Pitch		Teeth		
14T	SS1205B1 13	13	B code only	16/32		13T	Innut Culina	
Splined Teeth-DP Spline Type Fit Ext. length ANSI 23-12/24 Flat root-side fit-class 6 1.88" AL 92.1-1970 23-8/16 Flat root-side fit-class 6 2.25" BL 92.1-1970 23-8/16 Flat root-side fit-class 6 1.22" BS 20-8/16 Major dia. Fit-class 6 2.12" CL Keyed Dia./Hex flat Key/Hole Dia. Ext. length 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2)5B1	14	C code only	12/24		14T	Input Spline	
Splined 23-12/24 Flat root-side fit-class 6 1.88" AL ANSI 23-8/16 Flat root-side fit-class 6 2.25" BL 92.1-1970 23-8/16 Flat root-side fit-class 6 1.22" BS 20-8/16 Major dia. Fit-class 6 2.12" CL Keyed Dia./Hex flat Key/Hole Dia. Ext. length 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2	13	6B	B code only	1.00" Dia.		6T		
ANSI 23-8/16 Flat root-side fit-class 6 2.25" BL 92.1-1970 23-8/16 Flat root-side fit-class 6 1.22" BS 20-8/16 Major dia. Fit-class 6 2.12" CL Keyed Dia./Hex flat Key/Hole Dia. Ext. length 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex Hex 2.00" .76" 5.38" H2			Ext. length	Spline Type Fit	Teeth-DP			
92.1-1970 23-8/16 Flat root-side fit-class 6 1.22" BS CL Keyed Dia./Hex flat Key/Hole Dia. Ext. length 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2		AL	1.88"	Flat root-side fit-class 6	23-12/24	Splined		
Cutput Exeyed Dia./Hex flat Key/Hole Dia. Ext. length 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2		BL	2.25"	Flat root-side fit-class 6	23-8/16	ANSI		
Number Keyed Dia./Hex flat Key/Hole Dia. Ext. length 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2		BS	1.22"	Flat root-side fit-class 6	23-8/16	92.1-1970		
Round 2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2	SS1	CL	2.12"	Major dia. Fit-class 6	20-8/16			
2.00" 1/2 Sq. 3.60" KA 3.00" 5/8 Sq. 3.57" KB Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2	SS1205B113 CL		Ext. length	Key/Hole Dia.	Dia./Hex flat	Keyed	Outnut	
Round 2.00" .64" 3.67" A1 2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2	B1 1	KA	3.60"	1/2 Sq.	2.00"		Output	
2.56" .90" 4.17" A2 Hex 2.00" .76" 5.38" H2	ဋ	KB	3.57"	5/8 Sq.	3.00"			
Hex 2.00" .76" 5.38" H2		A1	3.67"	.64"	2.00"	Round		
		A2	4.17"	.90"	2.56"			
Pilot Hole Pattern Flange		H2	5.38"	.76"	2.00"	Hex		
	ο̈		Flange	Hole Pattern	I	Pilot		
11.250" 8 x .610" .76" H1	SS1205B113CL H1	H1	.76"	8 x .610"		11.250"		
Hub on 12.375" B.C.)5B1				OI		Hub	
11.000" 10 x .850" .96" H3	1130	НЗ	.96"			11.000"		
on 13.187" B.C.	Ŧ			n 13.187" B.C.	OI			





To apply the bearing curve to other design conditions:

Design life (hrs)=3000 (100 RPM) x (allowable radial load (curve) Design RPM) x (Design radial)

NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

(1) Max. intermittent input load line shown is for 14T input.

Contact OMNI GEAR Engineering for other inputs.

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

	MOUNTING CHART					
Code	Motor Mount	Pilot Diameter				
	(2) 1/2"-13UNC-2B					
A 1	x 0.88 [22.4] Deep	3.251-3.255 [82.58-82.68]				
	on 4.188 [106.38] B.C.					
B1	(2) 1/2"-13UNC-2B Thru	4.001-4.006 [101.63-101.75]				
	on 5.750 [146.05] B.C.	4.001 4.000 [101.00 101.73]				
	(2) 5/8"-11UNC-2B x 1.25[38.1] DP					
C1	on 7.125 [180.93] B.C. and	5.001-5.006 [127.03-127.15]				
	(4) 1/2"-13UNC-2B x 1.0[25.4] DP	3.001 3.000 [127.00 127.13]				
	on 6.375 [161.93] B.C.					

SPLINE LENGTHS						
Code	E1					
A 1	14	0.79 [20.0]	2.40 [61.0]			
A 1	6B		2.07 [52.5]			
B1	13	0.63 [16.0]	1.75 [44.5]			
C1	14	0.79 [20.0]	2.32 [59.0]			

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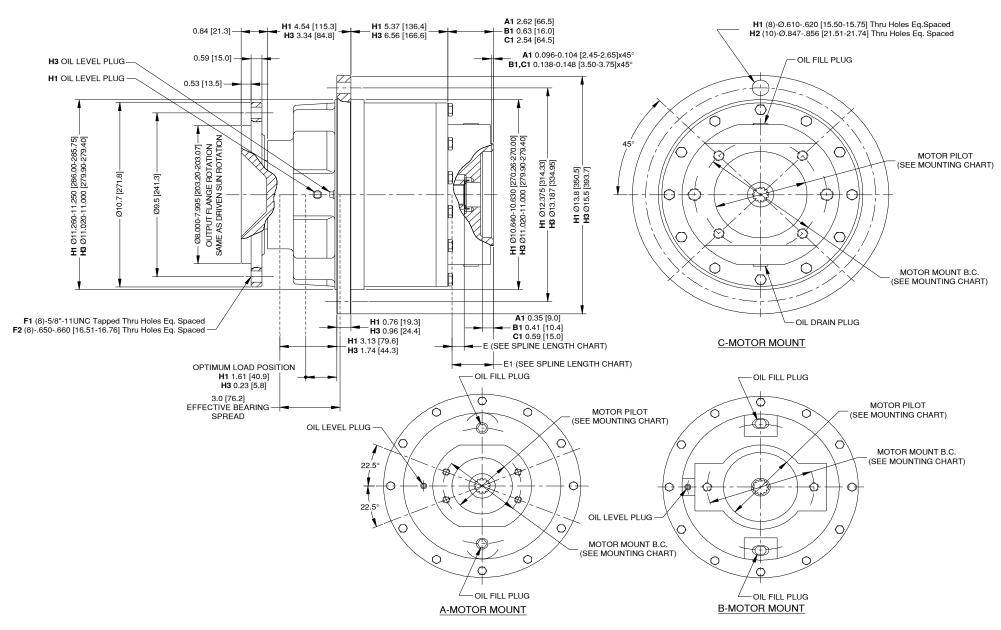


SD12 Flange Output Drive Double Reduction



PHONE: 713-635-6331 FAX: 713-635-6330 EMAIL: sales@omnigear.com

WEBSITE: www.omnigear.com





SD12 Double Reduction- General Specifications

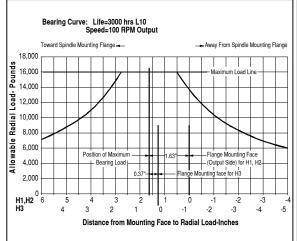
Max. intermittent output torque*: 100,000 lb-in (11,300 Nm)

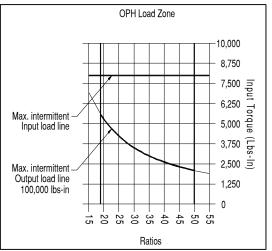
Max. input speed: 5,000 RPM
Approximate weight: 210 lbs (95.5 kg)
Approximate oil capacity: 0.44 gals (1.7 liters)

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

SD12 Feature Chart						
Feature			Code	Sample		
			Ratio			
	19.67:1					
	21.95:1					
			24.50:1		25	18
Gear Ratio			27.95:1		28	SD12 32
			31.89:1		32	ĸ
			36.00:1		36	
			42.43:1		42	
			50.01:1		50	
	Motor Flange	Fra	me Pilot	Hole Pattern		S
Motor Mount	SAE A	;	3.25"	2 & 4 bolts	A1	SD1232 B1
motor mount	SAE B		4.00"	2 bolts	B1	32 B
SAE C			5.00"	2 & 4 bolts	C1	1
	Teeth	Teeth Pitch		Flange Used		SD
Input Spline	13T		16/32	B code only	13	SD1232B1 13
mpat opinio	14T		12/24	C code only	14	2B1
	6T	1.00" Dia.		B code only	6B	
		Pilot	Hole Size	Hole Pattern		SD1
Output	Flanged	8.00"	5/8"-11UNC	8 on 9.50" B.C.	F1	SD1232B113 F1 SD1232B113F1 H1
		8.00"	0.69"	8 on 9.50" B.C.	F2	13 F1
	Pilot Hole Pattern		Flange		SD	
	11.250"	8	x .610"	.76"	H1	1232
Hub		on 12	.375" B.C.			B11
	11.000"	10	x .850"	.96"	НЗ	3F1
		on 13	.187" B.C.			포

SPLINE LENGTHS					
Code Teeth E E1					
A1	14	0.79 [20.0]	2.40 [61.0]		
A1	6B	0.65 [16.5]	2.07 [52.5]		
B1	13	0.63 [16.0]	1.75 [44.5]		
C1	14	0.79 [20.0]	2.32 [59.0]		





To apply the bearing curve to other design conditions:

Design life (hrs)=3000 (100 RPM) × (allowable radial load (curve) Design RPM) × (besign radial load load

NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

	MOUNTING CHA	ART
Code	Motor Mount	Pilot Diameter
A 1	(2) 1/2"-13UNC-2B x 0.88 [22.4] Deep on 4.188 [106.38] B.C.	3.251-3.255 [82.58-82.68]
B1	(2) 1/2"-13UNC-2B Thru on 5.750 [146.05] B.C.	4.001-4.006 [101.63-101.75
C1	(2) 5/8"-11UNC-2B x 1.25[38.1] DP on 7.125 [180.93] B.C. and (4) 1/2"-13UNC-2B x 1.0[25.4] DP on 6.375 [161.93] B.C.	5.001-5.006 [127.03-127.15

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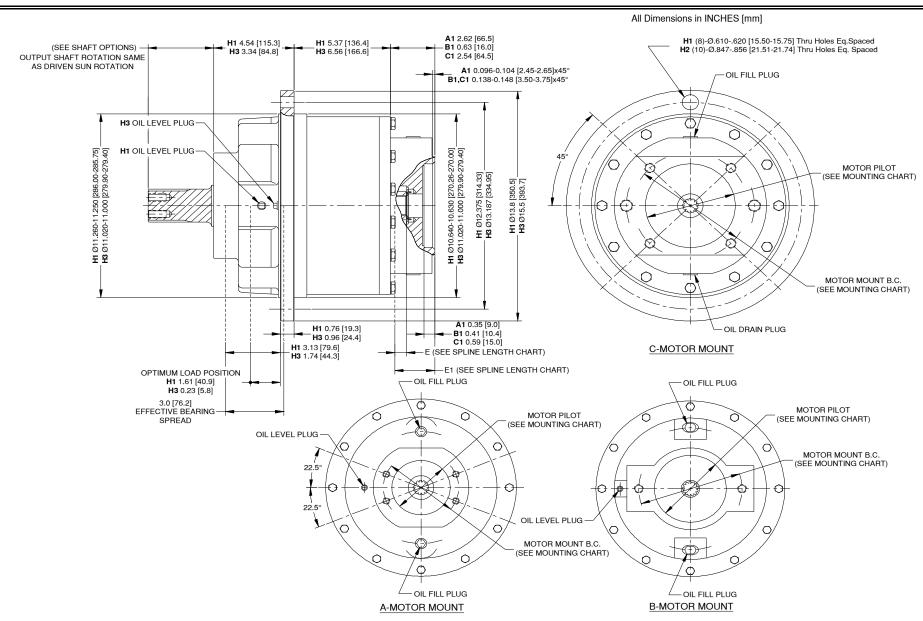


SD12 Shaft Output Drive Double Reduction



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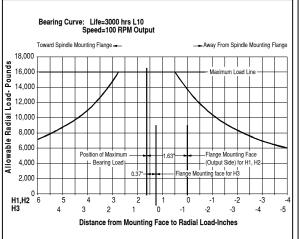
SD12 Double Reduction- General Specifications

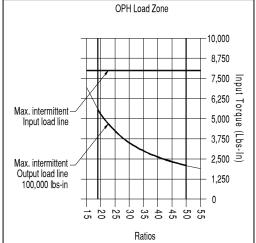
Max. intermittent output torque*: 100,000 lb-in (11,300 Nm)

Max. input speed: 5,000 RPM
Approximate weight: 210 lbs (95.5 kg)
Approximate oil capacity: 0.44 gals (1.7 liters)

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

SD12 Feature Chart							
Feature				Code	Sample		
			Ratio				
			20				
			21.95:1		22		
			24.50:1		25	<u>8</u>	
Gear Ratio			27.95:1		28	SD12 32	
			31.89:1		32	8	
			36.00:1		36		
			42.43:1		42		
			50.01:1		50		
	Motor Flange		Frame Pilot	Hole Pattern		S	
Motor Mount	SAE A		3.25"	2 & 4 bolts	A1	SD1232 B1	
SAE B		4.00"		2 bolts	B1	32 B	
	SAE C 5.00" 2 & 4 bolt				C1	1	
	Teeth	Pitch		Flange Used		SD	
Input Spline	13T	16/32		B code only	13	SD1231B1 13	
Input opinio	14T	12/24 C code only			14	1B ² :	
	6T	1.00" Dia. B code			6B	13	
		Teeth-DP	Spline Type Fit	Ext. length			
	Splined	23-12/24	Flat root-side fit-class 6	1.88"	AL		
	ANSI	23-8/16	Flat root-side fit-class 6	2.25"	BL		
	92.1-1970	23-8/16	Flat root-side fit-class 6	1.22"	BS	38	
		20-8/16	Major dia. Fit-class 6	2.12"	CL)123	
Output		Dia./Hex flat	Key/Hole Dia.	Ext. length		SD1232B113 CL	
	Keyed	2.00"	1/2 Sq.	3.60"	KA	130	
		3.00"	5/8 Sq.	3.57"	KB	ř	
	Round	2.00"	.64"	3.67"	A1		
		2.56"	.90"	4.17"	A2		
	Hex	2.00"	.76"	5.38"	H2		
	Pilot		Hole Pattern	Flange		SD1	
						SD1232B113CL H1	
Hub	11.250"		8 x .610"	.76"	H1	B11	
	11.000"	on 12.375" B.C. 10 x .850"		.96"	НЗ	3CL	
		0	n 13.187" B.C.			프	





To apply the bearing curve to other design conditions:



NOTE: This load zone curve is supplied for design reference only. It illustrates the relationship and importance between ratio and torque relative to intermittent gearbox torque limits. For detailed analysis or application review, contact OMNI GEAR Engineering.

NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

	MOUNTING CHART					
Code	Motor Mount	Pilot Diameter				
	(2) 1/2"-13UNC-2B					
A1	x 0.88 [22.4] Deep	3.251-3.255 [82.58-82.68]				
	on 4.188 [106.38] B.C.					
B1	(2) 1/2"-13UNC-2B Thru	4.001-4.006 [101.63-101.75]				
	on 5.750 [146.05] B.C.	4.001 4.000 [101.00 101.73]				
	(2) 5/8"-11UNC-2B x 1.25[38.1] DP					
C1	on 7.125 [180.93] B.C. and	5.001-5.006 [127.03-127.15]				
"	(4) 1/2"-13UNC-2B x 1.0[25.4] DP	3.001 3.000 [127.00 127.13]				
	on 6.375 [161.93] B.C.					

SPLINE LENGTHS					
Code	Teeth	E	E1		
A1	14	0.79 [20.0]	2.40 [61.0]		
A1	6B	0.65 [16.5]	2.07 [52.5]		
B1	13	0.63 [16.0]	1.75 [44.5]		
C1	14	0.79 [20.0]	2.32 [59.0]		

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SS06/SD06 Shaft Output Drive **Shaft Options**

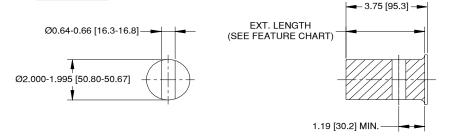


PHONE: 713-635-6331 FAX: 713-635-6330

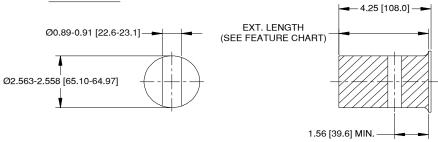
EMAIL: sales@omnigear.com WEBSITE: www.omnigear.com

All Dimensions in INCHES [mm]

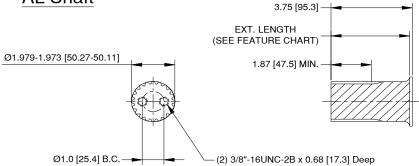
A1 Shaft



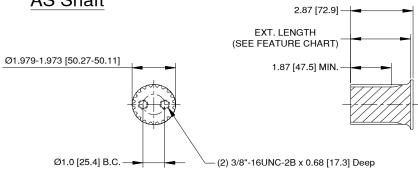
A2 Shaft



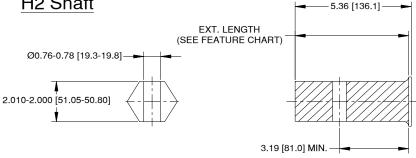
AL Shaft

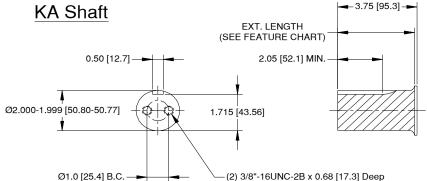


AS Shaft



H2 Shaft









SS12/SD12 Shaft Output Drive Shaft Options

1.19 [30.2] MIN.

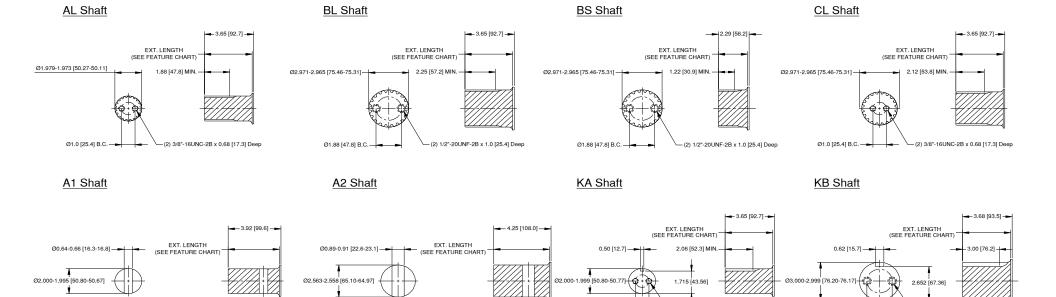


-(2) 3/8"-16UNC-2B x 0.68 [17.3] Deep

PHONE: 713-635-6331 FAX: 713-635-6330 EMAIL: sales@omnigear.com WEBSITE: www.omnigear.com

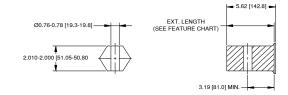
All Dimensions in INCHES [mm]

Ø1.88 [47.8] B.C. -



1.56 [39.6] MIN.

H2 Shaft







-(2) 1/2"-20UNF-2B x 1.0 [25.4] Deep

GS06/GD06 Wheel Drive Gear Kit



PHONE: 713-635-6331 FAX: 713-635-6330

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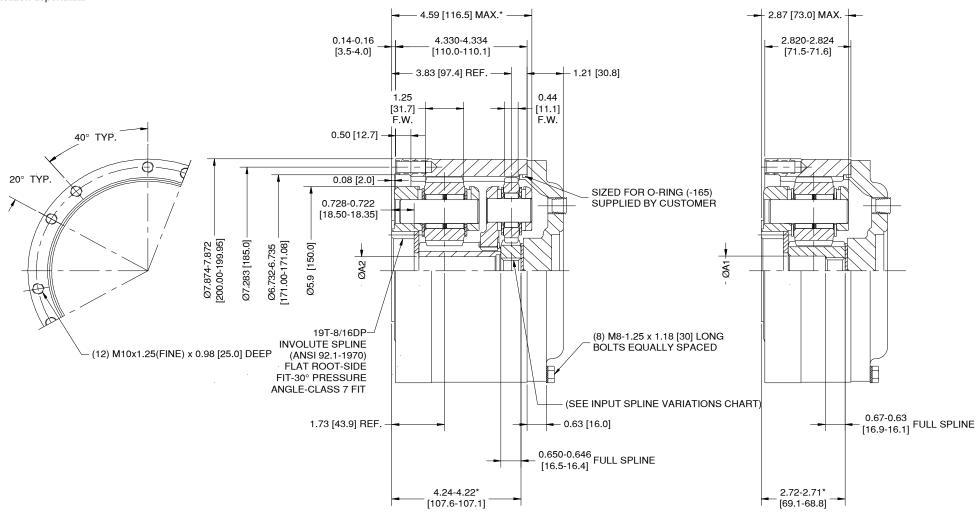
All Dimensions in INCHES [mm]

Double Reduction (GD) Kit

Single Reduction (GS) Kit

If single dim not shown, then same as double

* Note: Dimension is metal to metal for all components. Axial clearance is required for proper operation and is application dependent.



Shown here is a full component gear kit. Please check your specific assembly for the actual parts your gear kit includes.



GS06/GD06 Single&Double Reduction- General Specifications Wheel Drive Style Gear Kit

GS/GD06 Feature Chart							
Feature		Description		Code	Sample		
	Size Code	Ratio*					
	GS06	3.75:1		03			
	GS06	4.50:1		04			
	GS06	5.05:1	05				
	GS06	5.81:1		06			
Gear Ratio	GD06	14.06:1		14	GD06 21		
acui nuno	GD06	16.88:1		17	621		
	GD06	20.62:1		21			
	GD06	22.74:1		23			
	GD06	25.53:1		26			
	GD06	29.37:1		29			
	GD06	33.76:1		34			
	Teeth	Pitch	Ratio Usage				
Input Type	13T	16/32	03, 04, 05, 14 17, 21, 23, 26	13	GD0621 13		
	24T	T 32/64 06, 29, 34		24	21 13		
	No i	NS					
Ring Gear	Standard ring gear				GD062113 S		
Tillig acui	No ring gear			N	2113 S		
End Con	Wheel drive endcap-closed			ND	GD062		
End Cap Type	No cap included in kit			NC	GD062113S ND		
Hardware	Full set of capscrews, capscrew washers, & pipe plugs			н	GD062113SND H		
* Ratio show	No hardware supplied in kit			N			

^{*} Ratio shown is for shaft drives. For wheel drives actual ratio subtract 1 from ratio shown.

Ring Gear Data				
No. of Teeth	77			
Diametral Pitch (Module)	12 (2.1167)			
Pressure Angle	20°			
Tooth depth system	2.25			
Pin Diameter	Ø0.12 [3.048]			
Dist. Between pins	6.316-6.324 [160.5-160.7]			

Input Spline Variations						
No. of Teeth	13	24				
Diametral Pitch	16/32	32/64				
Dim ØA1	1.02 [26.0]	0.90 [22.8]				
Dim ∅A2	1.02 [26.0]	0.71 [18.0]				
External Involute Spline (ANSI 92.1 1970) Flat Root-Side Fit						
30° Pressure Angle- Class 7 Fit						

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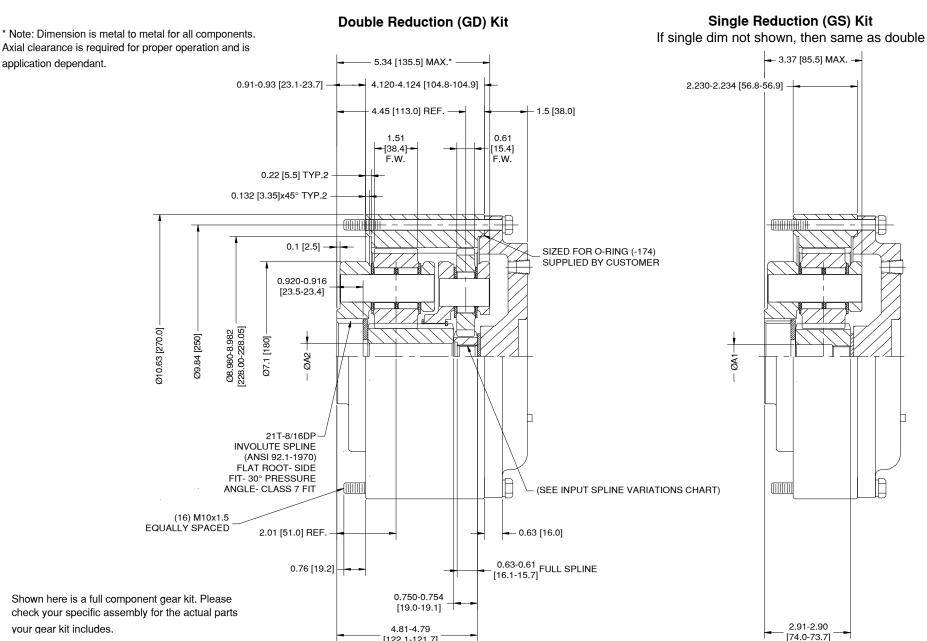
GS12/GD12 Wheel Drive Gear Kit



PHONE: 713-635-6331 FAX: 713-635-6330

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All Dimensions in INCHES [mm]



[122.1-121.7]

GS12/GD12 Single&Double Reduction- General SpecificationsWheel Drive Style Gear Kit

GS/GD12 Feature Chart								
Feature		Description		Code	Sample			
	Size Code	Ratio*						
	GS12	4.43:1		04				
	GS12	4.95:1		05				
	GS12	5.65:1		5A				
	GS12	6.00:1						
	GS12	7.07:1		07				
Gear Ratio	GD12	19.67:1		20	GD12 25			
Geal Hatio	GD12	21.95:1		22	2 25			
	GD12	24.50:1		25				
	GD12	27.95:1		28				
	GD12	31.89:1		32				
	GD12	36.00:1		36				
	GD12	42.43:1		42				
	GD12	50.01:1		50				
	Teeth	Pitch	Ratio Usage					
Input Type	13T	16/32	04, 05, 5A, 06, 20 22, 25, 28, 32, 36	3B	GD1225 3B			
	24T	32/64 07, 42, 50		24	5 3B			
	No input drive component supplied in kit							
Ring Gear	Standard ring gear			s	GD12:			
ning Gear	No ring gear			N	253B S			
End Cap	Wheel drive endcap-closed			ND	GD12253B S GD12253BS ND			
Туре	No cap included in kit			NC	3BS ND			
Hardware	Full set o	Full set of capscrews, capscrew washers, & pipe plugs			GD12253BSNDH			
. idi dirai 6		No hardware supplied in kit			3BSND H			

^{*} Ratio shown is for shaft drives. For wheel drives actual ratio subtract 1 from ratio shown.

Ring Gear Data						
Used for ratio codes	04, 05, 5A, 20 22, 25, 28, 32	06, 07, 36, 42 50				
No. of Teeth	79	85				
Diametral Pitch (Module)	10 (2.54)	10 (2.54)				
Pressure Angle	25°	25°				
Tooth depth system	2.25	2.25				
Pin Diameter	Ø0.144 [3.658]	Ø0.144 [3.658]				
Dist. Between pins	7.765-7.774 [197.26-197.46]	8.367-8.375 [212.51-212.71]				

Input Spline Variations						
No. of Teeth	13	24				
Diametral Pitch	16/32	32/64				
Dim ∅A1	1.02 [26.0]	0.90 [22.8]				
Dim ∅A2	1.06 [27.0]	0.93 [23.5]				
External Involute Spline (ANSI 92.1-1970) Flat Root- Side Fit						
30° Pressure Angle- Class	7 Fit					

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GS06 Shaft Out Gear Kit



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All Dimensions in INCHES [mm]

* Note: Dimension is metal to metal for all components. (8) M8-1.25 EQUALLY SPACED OIL PLUG 2x180° (ALL CAPS SAME SIZE) Axial clearance is required for proper operation and is application dependant. FOR A1, A2 & B1 MOTOR FLANGE MOTOR MOUNT B.C. 2.820-2.824 0.14-0.16 [3.5-4.0] [71.5-71.6] - MAX. SHAFT 1 SIZED FOR O-RING (-165) DATUM A SUPPLIED BY CUSTOMER 2.87 [73.0] MAX. -0.63 [16.0] A3 END CAP MOTOR MOUNT HOLES 1.73 [43.9] REF. 2.72-2.71 [69.1-68.8]* - CHAMFER [31.7] F.W. TO DATUM A OIL PLUG 2x180° 0.5 [12.7] 40° TYP. 0.08 [2.0] -MOTOR MOUNT HOLES (USE OIL SEALING BOLTS) (SEE INPUT SPLINE DETAILS) Ø6.732-6.735 [171.00-171.08] 0.728-0.722 [021] 6.30 [18.50-18.35] A1, A2 & B1 MOTOR MOUNT B.C. **END CAP** 19T-8/16DP -INVOLUTE SPLINE (SEE INPUT SPLINE DETAILS) (ANSI 92.1-1970) (12) M10-1.25(FINE) x 0.98 [25.0] DP FLAT ROOT-SIDE OIL PLUG 2x180° FIT-30° PRESSURE ANGLE-CLASS 7 FIT MOTOR MOUNT HOLES 4.31-4.32 [109.5-109.2]* TO DATUM A CHAMFER SIZED FOR O-RING (-165) SUPPLIED BY CUSTOMER MAX. SHAFT 1 0.63 [16.0]

FOR A3 & C1 MOTOR FLANGE

Shown here is a full component gear kit. Please check your specific assembly for the actual parts your gear kit includes.



MOTOR MOUNT B.C.

C1 END CAP

GS06 Single Reduction- General Specifications Shaft Out Style Gear Kit

			GS06 Feature	e Chart		
Feature			Description		Code	Sample
	Size Code		Ratio			
	GS06		3.75:1		03	ဂ္ဂ
Gear Ratio	GS06		4.50:1		04	GS06 03
	GS06		5.05:1		05	<u> </u>
	GS06		5.81:1		06	
	Teeth		Pitch	Cap Type Usage		
	13T	16/32		A1, A2, B1 Codes	13	GS
Input Type	14T	12/24		A1 & A2 Codes	14	GS0603 13
	6T	1.00" OD		A1 & A2 Codes	6F	313
	14T	12/24		A3 & C1 Codes	4H	
Bin n Ocean	Standard ring gear S		s	GS06		
Ring Gear	No ring gear			N	GS060313 S	
	Motor Flange	Pilot		Hole Pattern		
	SAE A	3.25"	(2) 3/8"-16 bolts	A1	ര
	SAE A	3.25"	(2) 1/2"-13 bolts	A2	GS060313S B 1
End Cap Type	SAE A	3.25"	2 sets	s of (2) 1/2"-13 bolts	А3	031
.,,,,,	SAE B	4.00"	(2) 1/2"-13 bolts	B1	3S B
	SAE C	5.00"	(2) 5/8"	-11 & (4) 1/2"-13 bolts	C1	=
		No	cap included in	n kit	NC	
Hardware	Full set o	Full set of capscrews, capscrew washers, & pipe plugs		н	GS060:	
		No ha	ardware supplie	d in kit	N	GS060313SB1 H

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Ring Gear Data					
No. of Teeth 77					
Diametral Pitch (Module)	12 (2.1167)				
Pressure Angle	20°				
Tooth depth system	2.25				
Pin Diameter	Ø0.12 [3.048]				
Dist. Between pins	6.316-6.324 [160.5-160.7]				

	Input Spline Details						
Code	Teeth	Diamteral Pitch	Type				
13	13	16/32	External Involute				
14	14	12/24	(ANSI 92.1 1970) Flat				
14	14	12/24	Root-Side Fit-30° Pressure				
4H	14	12/24	Angle-Class 7 Fit				
6F	6	1.00" OD	SAE Straight Sided				
OI .	U	1.00 OD	6B Slide Fit Spline				

Input Spline Lengths						
Endcap Code	Input Code	E1	Max. Shaft 1			
A1, A2, B1	13, 15, 6F	0.65 [16.5]	1.87 [47.5]			
C1	4H	0.94 [24.0]	2.22 [56.5]			
A1, A2	14	1.04 [26.5]	2.26 [57.5]			

	Motor Flange Variations					
Code	Χ	D	Chamfer	Motor Mount	W	
A1	3.251-3.256 [82.58-82.68]	0.35 [9.0]	0.096-0.104x45° [2.45-2.65x45°]	(2x180°) 3/8"-16UNC-2B Thru on 4.188 [106.38] B.C.	1.04 [26.5]	
A2	3.251-3.256 [82.58-82.68]	0.35 [9.0]	0.096-0.104x45° [2.45-2.65x45°]	(2x180°) 1/2"-13UNC-2B X 0.88 [22.4] DP on 4.188 [106.38] B.C.	1.04 [26.5]	
А3	3.251-3.256 [82.58-82.68]	0.35 [9.0]	0.096-0.104x45° [2.45-2.65x45°]	2 Sets of (2x180°) 1/2"-13UNC-2B X 0.98 [25] DP on 4.188 [106.38] B.C.	2.69 [68.4]	
B1	4.001-4.006 [101.63-101.75]	0.41 [10.4]	0.138-0.148x45° [3.50-3.75x45°]	(2x180°) 1/2"-13UNC-2B Thru on 5.750 [146.05] B.C.	1.26 [32.0]	
C1	5.001-5.006 [127.03-127.15]	0.59 [15.0]	0.138-0.148x45° [3.50-3.75x45°]	(4x90°) 1/2"-13UNC-2B x 0.98 [25] DP on 6.375 [161.93] B.C.	2.69 [68.4]	



GD06 Shaft Out Gear Kit



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All Dimensions in INCHES [mm]

* Note: Dimension is metal to metal for all components. (8) M8-1.25 EQUALLY SPACED OIL PLUG 2x180° (ALL CAPS SAME SIZE) Axial clearance is required for proper operation and is application dependant. MOTOR MOUNT B.C. FOR A1, A2 & B1 MOTOR FLANGE – 4.59 [116.5] MAX.* — 0.14-0.16 4.330-4.334 [3.5-4.0] [110.0-110.1] - MAX. SHAFT 1 SIZED FOR O-RING (-165) 3.83 [97.4] REF. -DATUM A SUPPLIED BY CUSTOMER 2.87 [73.0] MAX. + 0.63 [16.0] A3 END CAP MOTOR MOUNT HOLES 1.73 [43.9] REF. 4.240-4.22 [107.6-107.1]* - CHAMFER TO DATUM A [31.7] F.W. [11.1] F.W. OIL PLUG 2x180° 0.5 [12.7] 40° TYP. 0.08 [2.0] -MOTOR MOUNT HOLES (USE OIL SEALING BOLTS) (SEE INPUT SPLINE DETAILS) Ø6.732-6.735 [171.00-171.08] 0.728-0.722 [021] 6.30 [18.50-18.35] A1, A2 & B1 MOTOR MOUNT B.C. (SEE INPUT SPLINE DETAILS) **END CAP** 19T-8/16DP -INVOLUTE SPLINE (ANSI 92.1-1970) (12) M10-1.25(FINE) x 0.98 [25.0] DP FLAT ROOT-SIDE OIL PLUG 2x180° FIT-30° PRESSURE ANGLE-CLASS 7 FIT MOTOR MOUNT HOLES 5.83-5.63 [148.0-147.5] TO DATUM A - CHAMFER MAX. SHAFT 1 SIZED FOR O-RING (-165) SUPPLIED BY CUSTOMER - 0.63 [16.0

FOR A3 & C1 MOTOR FLANGE

Shown here is a full component gear kit. Please check your specific assembly for the actual parts your gear kit includes.



MOTOR MOUNT B.C.

C1 END CAP

GD06 Double Reduction- General Specifications Shaft Out Style Gear Kit

GD06 Feature Chart						
Feature		!	Description		Code	Sample
	Size Code		Ratio			
	GD06		14.06:1		14	
	GD06	16.88:1			17	
Gear Ratio	GD06		20.62:1		21	GD06 21
deal Hatio	GD06		22.74:1		23	621
	GD06		25.53:1		26	
	GD06		29.37:1		29	
	GD06		33.76:1		34	
	Teeth	Pit	tch	Cap Type Usage]	
	13T	16/32		A1, A2, B1 Codes	13	GD
Input Type	15T	16/32		B1 Code	15	GD0621 13
	6T	1.00" OD		A1 & A2 Codes	6F	13
	14T	12/24		A3 & C1 Codes	4H	
	Standard ring gear			s	99	
Ring Gear			0.0			062
	No ring gear			N	GD062113 S	
						0,
	Motor Flange	Pilot		lole Pattern		
	SAE A	3.25"	,) 3/8"-16 bolts	A1	90
End Cap	SAE A	3.25"	,) 1/2"-13 bolts	A2	GD062113S B1
Туре	SAE A	3.25"		of (2) 1/2"-13 bolts	A3	2113
	SAE B	4.00"	,) 1/2"-13 bolts	B1	S B 1
	SAE C	5.00"	. ,	1 & (4) 1/2"-13 bolts	C1	
		No c	ap included in	kit	NC	
	Full set o	of canscrews	canscrew wa	shers, & pipe plugs	н	GD
l	T dill oot t	or oupcorotto,	, capcoron ma	shore, a pipe plage	"	062
Hardware						1138
		No hard	lware supplied	in kit	N	GD062113SB1 H
						_

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Ring Gear Data					
No. of Teeth 77					
Diametral Pitch (Module)	12 (2.1167)				
Pressure Angle	20°				
Tooth depth system	2.25				
Pin Diameter	Ø0.12 [3.048]				
Dist. Between pins	6.316-6.324 [160.5-160.7]				

		Input Spline Details	
Code	Teeth	Diamteral Pitch	Туре
13	13	16/32	External Involute
10	10	10/02	(ANSI 92.1 1970) Flat
15	15	16/32	Root-Side Fit-30° Pressure
4H	14	12/24	Angle-Class 7 Fit
6F	6	1.00" OD	SAE Straight Sided
OI .	0	1.00 OD	6B Slide Fit Spline

Input Spline Lengths				
Endcap Code	Input Code	E1	Max. Shaft 1	
A1, A2, B1	13, 15, 6F	0.65 [16.5]	1.87 [47.5]	
C1	4H	0.94 [24.0]	2.22 [56.5]	

	Motor Flange Variations					
Code	Χ	D	Chamfer	Motor Mount	W	
A1	3.251-3.256 [82.58-82.68]	0.35 [9.0]	0.096-0.104x45° [2.45-2.65x45°]	(2x180°) 3/8"-16UNC-2B Thru on 4.188 [106.38] B.C.	1.04 [26.5]	
A2	3.251-3.256 [82.58-82.68]	0.35 [9.0]	0.096-0.104x45° [2.45-2.65x45°]	(2x180°) 1/2"-13UNC-2B X 0.88 [22.4] DP on 4.188 [106.38] B.C.	1.04 [26.5]	
А3	3.251-3.256 [82.58-82.68]	0.35 [9.0]	0.096-0.104x45° [2.45-2.65x45°]	2 Sets of (2x180°) 1/2"-13UNC-2B X 0.98 [25] DP on 4.188 [106.38] B.C.	2.69 [68.4]	
B1	4.001-4.006 [101.63-101.75]	0.41 [10.4]	0.138-0.148x45° [3.50-3.75x45°]	(2x180°) 1/2"-13UNC-2B Thru on 5.750 [146.05] B.C.	1.26 [32.0]	
C1	5.001-5.006 [127.03-127.15]	0.59 [15.0]	0.138-0.148x45° [3.50-3.75x45°]	(4x90°) 1/2"-13UNC-2B x 0.98 [25] DP on 6.375 [161.93] B.C.	2.69 [68.4]	



GS12 Shaft Out Gear Kit

Shown here is a full component gear kit. Please check your specific assembly for the actual parts

your gear kit includes.



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All Dimensions in INCHES [mm] OIL PLUG 2x180° * Note: Dimension is metal to metal for all components. MOTOR MOUNT HOLES Axial clearance is required for proper operation and is MOTOR MOUNT B.C. application dependant. FOR B1 MOTOR FLANGE 22.5° 0.91-0.93 2.230-2.234 [23.1-23.7] SIZED FOR O-RING (-174) 22.5° 0.63 [16.0] SUPPLIED BY CUSTOMER A1 MOTOR MOUNT OIL LEVEL PLUG -- 3.37 [85.5] MAX. -OIL PLUG 2x180° 2.01 [51.0] REF. - CHAMFER 1.51 [38.5] 3.24-3.23 [82.3-82.0]* OIL LEVEL PLUG TO DATUM A 0.132 [3.35]x45° TYP.2 MOTOR MOUNT HOLES 0.22 [5.5] TYP.2 0.10 [2.5] -(SEE INPUT SPLINE DETAILS) - MAX, SHAFT 1 MOTOR MOUNT B.C. 0.920-0.916 Ø8.980-8.982 [228.00-228.05] [23.5-23.4] **B1 MOTOR MOUNT** Ø9.84 B.C. [250] 21T-8/16 INVOLUTE SPLINE OIL PLUG 2x180° MOTOR MOUNT B.C. (ANSI 92.1-1970) FLAT ROOT- SIDE MAX. SHAFT 1 FIT-30° PRESSURE ANGLE-CLASS 7 FIT (SEE INPUT SPLINE DETAILS) MOTOR MOUNT HOLES (16) M10x1.5 EQUALLY SPACED 0.76 [19.2] MOTOR MOUNT B.C. 4.95-4.94 [125.6-125.3]* TO DATUM A - CHAMFER MOTOR MOUNT HOLES SIZED FOR O-RING (-174) - 0.63 [16.0] SUPPLIED BY CUSTOMER

FOR A1 & C1 MOTOR FLANGE



C1 MOTOR MOUNT

GS12 Single Reduction- General Specifications Shaft Out Style Gear Kit

	GS/GD12 Feature Chart					
Feature			Description		Code	Sample
	Size Code		Ratio			
	GS12	4.43:1		04		
Gear Ratio	GS12		4.95:1		05	GS12 05
Godi Hatio	GS12		5.65:1		5A	2 05
	GS12		6.00:1		06	
	GS12		7.07:1		07	
	Teeth		Pitch	Cap Type Usage		മ
Input Type	13T		16/32	B1 codes	13	GS1205 4H
mpat Type	6T		1.00" OD	A1 codes	6H*	05 4
	14T		12/24	A1 & C1 codes	4H	
		St	andard ring gear		s	GS12
Ring Gear		No ring gear			N	GS12054H S
	Motor Flange	Pilot	Hole	e Pattern		و م
F= 4 0-=	SAE A	3.25"	2 sets of (2) 1/2"-13 bolts	A1	GS12054HS C1
End Cap Type	SAE B	4.00"	(2) 1/	2"-13 bolts	B1	054
	SAE C	5.00"	(2) 5/8"-11 8	k (4) 1/2"-13 bolts	C1	-tsc
		No	cap included in kit		NC	- 1
Hardware Hardware	Full set o	f capscrews	s, capscrew washe	rs, & pipe plugs	н	GS1205
nardware		No har	rdware supplied in I	kit	N	GS12054HSC1 H

^{*} Not available with ratio code 07

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Ring Gear Data				
Used for ratio codes	04, 05, 5A	06, 07		
No. of Teeth	79	85		
Diametral Pitch (Module)	10 (2.54)	10 (2.54)		
Pressure Angle	25°	25°		
Tooth depth system	2.25	2.25		
Pin Diameter	Ø0.144 [3.658]	Ø0.144 [3.658]		
Dist. Between pins	7.765-7.774 [197.26-197.46]	8.367-8.375 [212.51-212.71]		

Input Spline Details				
Code	Teeth	Diamteral Pitch	Туре	
13	13	16/32	External Involute	
10	10	10/02	(ANSI 92.1 1970) Flat	
ΛH	14	4H 14 12/24 Root-S	Root-Side Fit-30° Pressure	
711	14	12/24	Angle-Class 7 Fit	
6H	6	1.00" OD	SAE Straight Sided	
011	0	1.00 OB	6B Slide Fit Spline	

Input Spline Lengths						
Endcap Code	Input Code	E1	Max. Shaft 1			
A1	4H	0.79 [20.0]	2.40 [61.0]			
A1	6H	0.65 [16.5]	2.07 [52.5]			
B1	13	0.63 [16.0]	1.75 [44.5]			
C1	4H	0.79 [20.0]	2.32 [59.0]			
C1	6H	0.65 [16.5]	1.99 [50.5]			

Motor Flange Variations					
Code	Х	D	Chamfer	Motor Mount	W
A1	3.251-3.256 [82.58-82.68]	0.35 [9.0]	0.096-0.104x45° [2.45-2.65x45°]	(2x180°) 1/2"-13UNC-2B X 0.88 [22.4] DP on 4.188 [106.38] B.C 2 Places	3.25 [82.5]
B1	4.001-4.006 [101.63-101.75]	0.41 [10.4]	0.138-0.148x45° [3.50-3.75x45°]	(2x180°) 1/2"-13UNC-2B Thru on 5.750 [146.05] B.C.	1.26 [32.0]
C1	5.001-5.006 [127.03-127.15	0.59 [15.0]	0.138-0.148x45° [3.50-3.75x45°]	(2x180°) 5/8"-11UNC-2B x 1.25 [31.8] DP on 7.125 [180.98] B.C. (4x90°) 1/2"-13UNC-2B x 1.00 [25.4] DP on 6.375 [161.93] B.C.	3.17 [80.5]





GD12 Shaft Out Gear Kit



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All Dimensions in INCHES [mm] OIL PLUG 2x180° * Note: Dimension is metal to metal for all components. MOTOR MOUNT HOLES Axial clearance is required for proper operation and is MOTOR MOUNT B.C. application dependant. FOR B1 MOTOR FLANGE 22.59 MAX. SHAFT 1 5.34 [135.5] MAX.* -- w -0.91-0.93 [23.1-23.7] [104.8-104.9] 22.5° SIZED FOR O-RING (-174) 0.63 [16.0] SUPPLIED BY CUSTOMER 4.45 [113.0] REF. --A1 MOTOR MOUNT OIL LEVEL PLUG -- 3.37 [85.5] MAX. -2.01 [51.0] REF. 5.13-5.11 [130.4-130.0] * TO DATUM A 1.51 0.61 CHAMFER [38.5] OIL LEVEL PLUG 0.132 [3.35]x45° TYP.2 MOTOR MOUNT HOLES 0.22 [5.5] TYP.2 0.10 [2.5] -(SEE INPUT SPLINE DETAILS) MOTOR MOUNT B.C. 0.920-0.916 [23.5-23.4] [58] [123.5-23.4] **B1 MOTOR MOUNT** 21T-8/16 OIL PLUG 2x180° INVOLUTE SPLINE MOTOR MOUNT B.C. (ANSI 92.1-1970) FLAT ROOT- SIDE FIT-30° PRESSURE ANGLE-CLASS 7 FIT (SEE INPUT SPLINE DETAILS) MOTOR MOUNT HOLES (16) M10x1.5 MOTOR MOUNT B.C. EQUALLY SPACED 0.76 [19.2] 6.84-6.82 [173.6-173.2]* TO DATUM A MAX. SHAFT MOTOR MOUNT HOLES SIZED FOR O-RING (-174) - 0.63 [16.0] SUPPLIED BY CUSTOMER Shown here is a full component gear kit. Please check your specific assembly for the actual parts C1 MOTOR MOUNT

FOR A1 & C1 MOTOR FLANGE



your gear kit includes.

GD12 Double Reduction- General Specifications Shaft Out Style Gear Kit

	GD12 Feature Chart					
Feature			Description		Code	Sample
	Size Code		Ratio			
	GD12	19.67:1		20		
	GD12	21.95:1		22		
	GD12		24.50:1		25	GI
Gear Ratio	GD12		27.95:1		28	GD12 25
	GD12		31.89:1		32	25
	GD12		36.00:1		36	
	GD12		42.43:1		42	
	GD12		50.01:1		50	
	Teeth		Pitch	Cap Type Usage		G
Input Type	13T		16/32	B1 codes	13	GD1225 4H
	6T		1.00" OD	A1 codes	6H*	25 4
	14T		12/24	A1 & C1 codes	4H	
		Sta	andard ring gear			GD.
Ring Gear					S	1225
	No ring gear					GD12254H S
	Motor Flange	Pilot	Но	le Pattern	N	
	SAE A	3.25"		(2) 1/2"-13 bolts	A1	GD12254HS C1
End Cap	SAE B	4.00"		/2"-13 bolts	B1	225
Туре	SAE C	5.00"		& (4) 1/2"-13 bolts	C1	4HS
	0,120		cap included in ki		NC	Ω
						GI
	Full set o	f capscrews	s, capscrew wash	ers, & pipe plugs	Н)122
Hardware						2541
	No hardware supplied in kit				N	GD12254HSC1 H
						I

^{*} Not available with ratio codes 42 & 50

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Ring Gear Data					
Used for ratio codes	20, 22, 25 28, 32	42, 50			
No. of Teeth	79	85			
Diametral Pitch (Module)	10 (2.54)	10 (2.54)			
Pressure Angle	25°	25°			
Tooth depth system	2.25	2.25			
Pin Diameter	Ø0.144 [3.658]	Ø0.144 [3.658]			
Dist. Between pins	7.765-7.774 [197.26-197.46]	8.367-8.375 [212.51-212.71]			

Input Spline Details				
Code	Teeth	Diamteral Pitch	Туре	
13	13	16/32	External Involute	
10	15	10/32	(ANSI 92.1 1970) Flat	
4H	14	4H 14 12/24	12/24	Root-Side Fit-30° Pressure
711	14	12/24	Angle-Class 7 Fit	
6H	6	1.00" OD	SAE Straight Sided	
011	0	1.00 00	6B Slide Fit Spline	

Input Spline Lengths					
Endcap Code	Input Code	E1	Max. Shaft 1		
A1	4H	0.79 [20.0]	2.40 [61.0]		
A1	6H	0.65 [16.5]	2.07 [52.5]		
B1	13	0.63 [16.0]	1.75 [44.5]		
C1	4H	0.79 [20.0]	2.32 [59.0]		
C1	6H	0.65 [16.5]	1.99 [50.5]		

Motor Flange Variations					
Code	Х	D	Chamfer	Motor Mount	W
A1		2.05	0.000.0.104.450	(2x180°)	
		0.35 [9.0]		1/2"-13UNC-2B X 0.88 [22.4] DP	3.25 [82.5]
	[[]		on 4.188 [106.38] B.C 2 Places	
B1	4.001-4.006 0.41 [101.63-101.75] [10.4]	0.44	0.400.0.440::450	(2x180°)	
		[10.4]	0.138-0.148x45° [3.50-3.75x45°]	1/2"-13UNC-2B Thru	1.26 [32.0]
	[[]	[0.00 0 0]	on 5.750 [146.05] B.C.	
				(2x180°)	
				5/8"-11UNC-2B x 1.25 [31.8] DP	
C1	5.001-5.006	0.59	0.138-0.148x45°	on 7.125 [180.98] B.C.	3.17 [80.5]
	[127.03-127.15 [15.0] [3.50-3.75x45		[3.50-3.75x45°]	(4x90°)	0.17 [00.0]
				1/2"-13UNC-2B x 1.00 [25.4] DP	
				on 6.375 [161.93] B.C.	





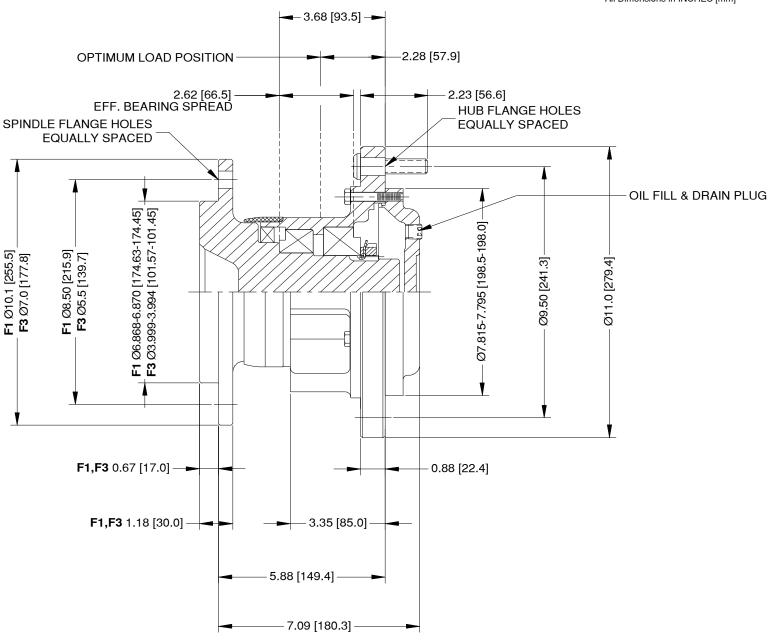
WN06 Non-Powered Wheel Drive



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All Dimensions in INCHES [mm]

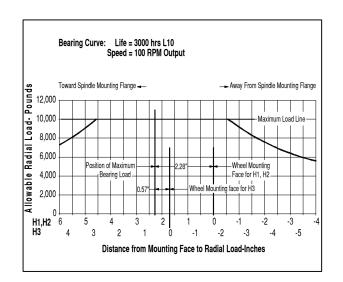




WN06 Single Reduction- General Specifications

Approximate weight: 73 lbs (33 kg)
Approximate oil capacity: 0.13 gals (0.5 liters)

WN06 Feature Chart					
Feature	Description			Code	Sample
	Flange OD	Frame Pilot	Bolt Pattern		
	10.0"	6.875"	(8) .660" holes	F1	≦
Spindle			on 8.50" B.C.		WN06 F 1
Frame Pilot	7.0"	4.000"	(5) 1/2-13UNC	F3	꼬
			on 5.50" B.C.		
	Pilot	Bolt Pattern	Flange		≦
Hub	7.88"	9 x .681"	.88"	H2	WN06F1 H2
		on 9.50" B.C.			F1
					12
	Dia Pitch	Stud Length*	For Hole		8
	No Studs			NS	N 06
Studs	1/2"-20UNF	2.23"	.681"	AA	WN06F1H2 AA
	9/16"-18UNF	2.23"	.681"	BA	124
	5/8"-18UNF	2.23"	.681"	CA	Ď
	Usable length equals stud length less hsg. Flange				





NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

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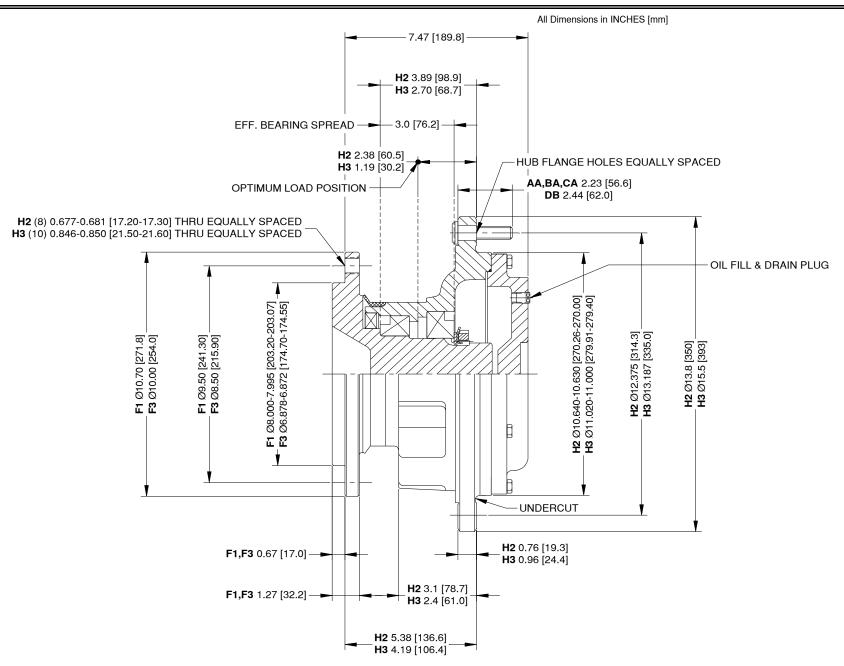


WN12 Non-Powered Wheel Drive



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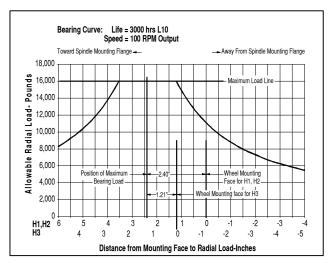




WN12 Non-Powered- General Specifications

Approximate weight: 141 lbs. (64 kg)
Approximate oil capacity: 0.21 gals (0.8liters)

WN12 Feature Chart					
Feature		Description		Code	Sample
	Flange OD	Frame Pilot	Bolt Pattern		
	10.7"	8.000"	(8) 5/8"-11UNC	F1	₹
Spindle			on 9.50" B.C.		WN12 F1
Frame Pilot	10.0"	6.875"	(8) .660" holes	F3	프
			on 8.50" B.C.		
	Pilot	Bolt Pattern	Flange		_
	10.635"	8 x .681"	.76"	H2	WN12F1 H2
Hub		on 12.375" B.C.			12F
	11.000"	10 x .850"	.96"	Н3	1 H2
		on 13.187" B.C.			
	Dia Pitch	Stud Length*	For Hole		_
	No Studs			NS	WN12F1H2 BA
Studs	1/2"-20UNF	2.23"	.681"	AA	12F
	9/16"-18UNF	2.23"	.681"	ВА	1H2
	5/8"-18UNF	2.23"	.681"	CA	BA
	3/4"-16UNF	2.44"	.850"	DB	
	* Usable length equals stud length less hsg. Flange				



To apply the bearing curve to other design conditions:

NOTE: This bearing curve is supplied for design reference purposes only. It illustrates the relationship and importance of radial load position relative to this gearbox. For detailed analysis or application review, contact OMNI GEAR Engineering.

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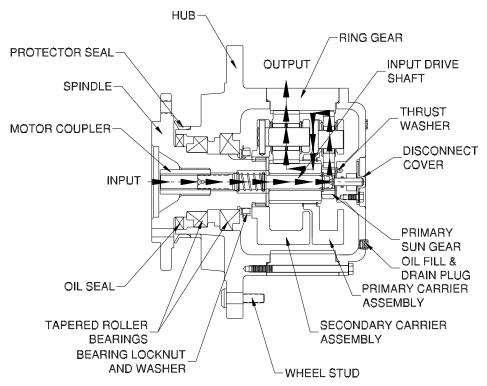
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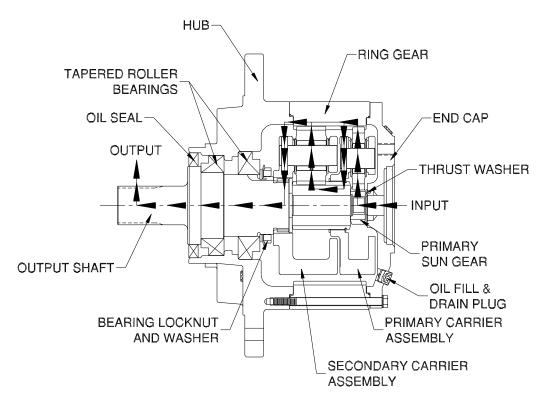


➤ Wheel Drive- Assembly View/Power Flow

➤ Double Reduction



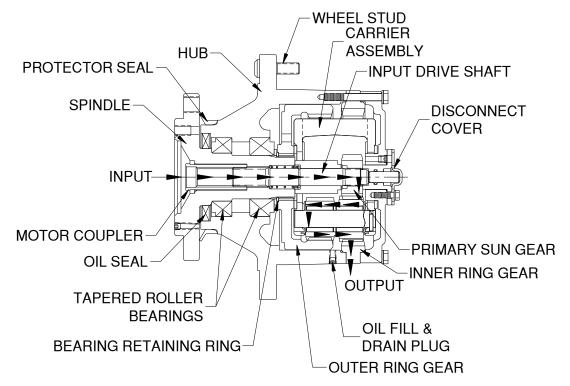
- > Shaft Output Drive- Assembly View/Power Flow
- ➤ Double Reduction





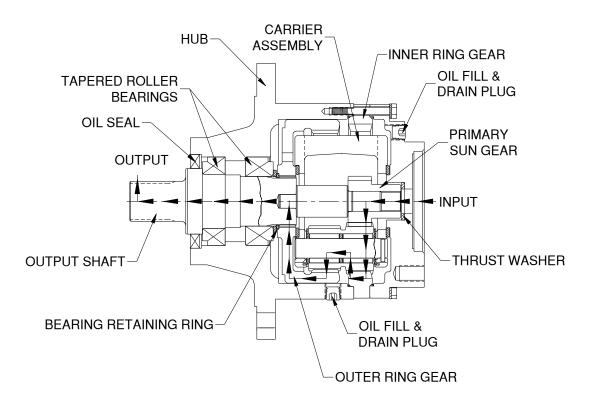
➤ Wheel Drive- Assembly View/Power Flow

➤ Differential



➤ Shaft Output Drive- Assembly View/Power Flow

➤ Differential





Limited Warranty

Omni Gear warrants its Products to be free defects in materials and workmanship when installed and maintained consistent with Omni Gear's specifications.

Unless otherwise specified below, each Product is warranted for a period of 12 months from the date of retail delivery or 18 months from the date of shipment from Omni Gear's facility, whichever shall first occur. All replacement or spare parts supplied by Omni Gear are warranted for a period of 3 months from the date of shipment from Omni Gear's Facility.

Should any part of an Omni Gear Product be found, under normal use and service, during the warranty period, to be defective, Omni Gear shall repair or replace, at its sole option, said part FOB Omni Gear's facility, Houston, Texas, provided the defective gear drive, in whole, is returned to Omni Gear's facility, charges prepaid, accompanied by a Return Goods Authorization Number ("RGA") and defect report detailing the claimed defect, and provided inspection of the original Product establishes the claimed defect to the satisfaction of Omni Gear.

In the event a warranty claim is denied, an Omni Gear Customer Service representative shall contact the customer and advise of the cost to repair the Product not covered under warranty. If the customer requests the Product be repaired, the repaired Product shall carry a Manufactureri's Remanufactured Warranty of 6 months from the date of remanufacture.

Warranty Disclaimer and Limitations of Liability

Omni Gear makes no other warranties. No warranty of merchantability or fitness for a particular purpose is implied.

Omni Gear's liability under this warranty is limited to the conditions stated herein. OMNI GEAR SHALL NOT IN ANY EVENT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE including, but not limited to expenses, attorney fees, loss of income or profits due to delay or defective material or workmanship and no allowance will be made for repairs, replacements, transportation or freight charges, or alterations UNLESS authorized in writing by Omni Gear. Omni Gearí s warranty is subject to change without notice.

This warranty shall not apply to any Product upon which repairs or alterations have been made, improper lubrication, including type and frequency, excessive shock loading, improper application or for misused, neglected or incorrectly installed Product. This warranty shall not apply in the event proper gearbox lubrication and service is not maintained. All gearbox Product lubrication must be flushed and refilled after the first 100 hours of service, and then every 1000 hours thereafter. This warranty shall not apply to seals in the event they have been subjected to heat in excess of 200 degrees, paint, solvents or other chemicals in the assembly or painting processes. Any Omni Gear Product that remains unused for a period of 6 consecutive months during the warranty period shall not be warranted for leakage due to seal aging. The warranty for bearings shall be limited to the warranty provided by the bearing manufacturer. No Product will be eligible for warranty if rust or corrosion has started on internal surfaces.

If any provision of this warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction and the remainder of the warranty shall not be affected thereby. Legal proceedings arising out of the terms of Omni Gear's warranty must be commenced within one (1) year of the accrual of the cause of action or be forever barred.

Exceptions

Exceptions to Omni Gear's stated Warranty Policy must be in writing, and made a part of this Limited Warranty.

Customer Product Group Limited Warranty Effective Date





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