



CLEANLINE™ GEAR DRIVES & MOUNTED BEARINGS

Solutions for Pharmaceutical, Meat, Poultry and Produce Processing & Washdown Applications.

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CleanLine™

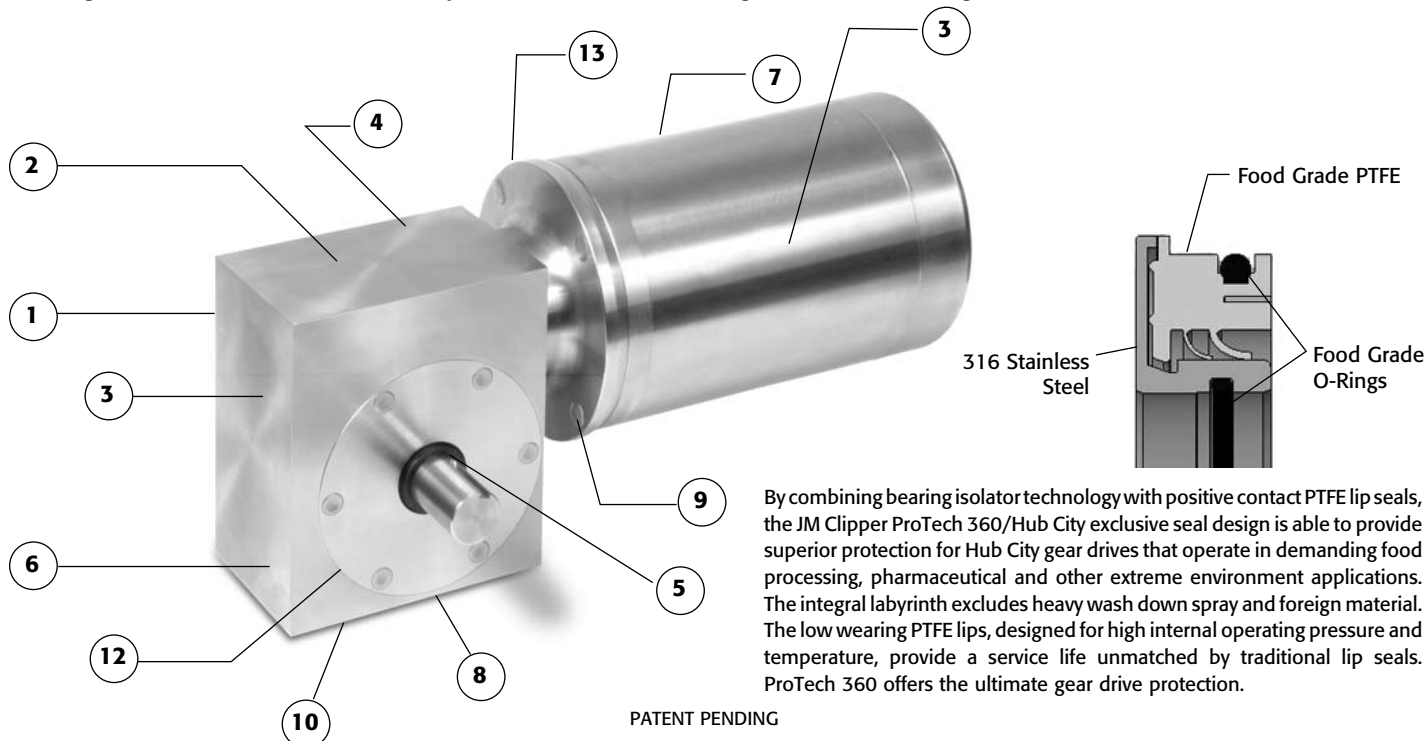
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THE HUB CITY ADVANTAGE



Raising Pharmaceutical, Meat, Poultry and Produce Processing Solutions to a Higher Power!



By combining bearing isolator technology with positive contact PTFE lip seals, the JM Clipper ProTech 360/Hub City exclusive seal design is able to provide superior protection for Hub City gear drives that operate in demanding food processing, pharmaceutical and other extreme environment applications. The integral labyrinth excludes heavy wash down spray and foreign material. The low wearing PTFE lips, designed for high internal operating pressure and temperature, provide a service life unmatched by traditional lip seals. ProTech 360 offers the ultimate gear drive protection.

PATENT PENDING

- | | |
|---|--|
| <p>① 316 Stainless Steel Housing, Shafting and Hardware (Plated Non-motorized Integral Gear Input Shafts):</p> <ul style="list-style-type: none"> • Provides superior corrosion resistance <p>② Cleanline UltraPlus™ and Pharmaceutical Design Enhances Ease of Cleaning:</p> <ul style="list-style-type: none"> • All exterior surfaces uninterrupted and machined • Contoured interfaces • No protrusions • No undercuts • No ribs <p>③ Reducer/Motor Oversized Identification, Configuration, and Operating Data:</p> <ul style="list-style-type: none"> • Micro-embossed in the housing/frame for permanent retention • Elimination of bacteria growth supporting protrusions • Will not trap food particles or dirt <p>④ Sealed Housing Design-Non-Vented:</p> <ul style="list-style-type: none"> • Will not ingest liquids and foreign material during operation or washdown <p>⑤ JM Clipper ProTech 360/Hub City exclusive seal design:</p> <ul style="list-style-type: none"> • Bearing Isolator technology excludes high pressure wash down spray and foreign material. • PTFE lip seal technology retains oil • Retains lubricant regardless of gear drive mounting position • Sealing surface is internal, no shaft wear • All components meet USDA/FDA requirements • Superior gear drive protection in hostile food processing applications • Low wear PTFE lips, designed for high internal operating pressure and temperature, provide extended seal and gear drive service life • Enhances ease of cleaning | <p>⑥ Permanently Lubricated for the Service Life of the Drive With USDA/ FDA Compliant Lubricant:</p> <ul style="list-style-type: none"> • Excellent ageing and oxidation stability • Broad service temperature range • Physiologically inert and without taste or smell <p>⑦ Motors:</p> <ul style="list-style-type: none"> • Stainless steel • Totally enclosed non-vented (TENV) with rear integral non-protruding conduit box (1/4, 1/3, 1/2, 3/4 and 1 horsepower) • Total enclosed fan cooled - TEFC (1-1/2, 2, 3, and 5 horsepower) • Conduit opening for customer connection is easily relocated to 12:00, 3:00, 6:00, and 9:00 o'clock positions • C-Face non footed design • Smooth uninterrupted exterior surfaces enhances ease of cleaning • Suitable for inverter-duty applications <p>⑧ Rebuild for Life Longevity Program</p> <p>⑨ Installation/Service Friendly NSF/3-A Compliant Fasteners</p> <p>⑩ Computer Aided Designed Elevated Operating Temperature (Above 160°F) Assists in Eradicating Bacteria</p> <p>⑪ HACCP Compatible</p> <p>⑫ O-Ring Sealed Bearing Carriers</p> <p>⑬ Sealed Motor to NEMA Frame Interface</p> |
|---|--|



The Hub City stainless steel Hub³™ design goes beyond basic corrosion resistance, by providing a machined unobstructed, contoured exterior surface. The exterior is free of ribs, undercuts and protrusions that do not support washdown, cleaning and sanitary conditions. The geardrives are configured such that all exterior surfaces self drain, do not entrap soil, foreign material or contain areas that support the breeding of bacteria, fungi, mold and or other microorganisms. All exterior surfaces are smooth and easily cleaned allowing for cleaning in place or manual cleaning processes.

The design of this superior product evolved from facility inspections and design input from a number of major food, meat, produce, and pharmaceutical processors. The acquired data was integrated with "Hygiene requirements for the design of meat and poultry processing equipment," NSF/ANSI/3-A 14159-1-2002. These resources, combined with Hub City's years of design and application experience in these industries, provide a drive that specifically meets the requirements of the processing industries and FDA/USDA/NSF National Sanitation Requirements. Several typical industrial applications requiring high degrees of sanitation and hygiene or severe environmental conditions are listed as follows:

- Food Handling and Processing including:

- Poultry and Meat
- Seafood and Fish
- Cereal and Grain
- Produce
- Baking
- Beverage
- Pharmaceutical Industry
- Chemical Processing Industry
- Petroleum Processing Industry
- Tobacco Industry
- Carwash Industry
- Mixer Industry
- Pump Industry

Stainless steel Hub³™ geardrives, manufactured with 316 stainless steel housings and shafting, provide superior



THE HUB CITY ADVANTAGE

corrosion resistance to most types of chemical corrosives and washdown chemicals. The exterior stainless steel surface texture is 70 microinches R_a. Configurations with a smoother surface texture (near mirror finish) are also available, consult the factory for further information.

Stainless steel Hub³™ geardrives utilize non-vented housings with high-pressure seals designed to be easily cleaned, expel and exclude foreign material and are resistant to ingestion of liquids during pressurized washdown. The seal material is non-absorbent and capable of withstanding elevated operating temperatures.

Stainless steel Hub³™ geardrives are factory lubricated, for the application service life of the unit, with food-grade lubricant conforming to the demands of USDA H1 regulations. The ingredients used in the formulation of this lubricant are on the FDA list of allowable substances, as specified in the Guidelines of Security CFR 212, section 178.3570.

Stainless steel Hub³™ geardrives are supported by industry-identified accessories. These accessories increase functionality, reduce bacteria and microorganism growth, and enhance ease of cleaning. Accessories are listed as follows:

- Clearance Spacers
- Shaft Protectors
- Hollow Bore Output Sleeve Protectors
- Universal Base Kits
- Torque Arm Brackets
- "C" Flange Adaptor Kits

Hub City stainless steel Hub³™ geardrives are part of the Hub City "Rebuild for Life Longevity Program". This program ensures that the customer is only required to purchase the stainless steel geardrive one time. When the unit has reached it's service life it can be returned to the factory and refurbished for the current cost of a similar sized cast iron drive. The refurbished unit carries the same factory warranty as a new unit.





CLEANLINE ULTRAPLUS™ ULTIMATE SOLUTIONS

HUB³™ STAINLESS STEEL HIGH EFFICIENCY HELICAL INLINE DRIVES

FEATURES:

- Ratios from 2.57/1 to 51.25/1
- Power Ratings to 18HP
- Two Models: SSHI4042 and SSHI4062
- Smooth Cast Surface Finish
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- 316 Stainless Steel Housings & Shafts
- HACCP Compatible
- BISSC Certified
- Packaged with LEESON WASHGUARD All-Stainless Motors



HUB³™ STAINLESS STEEL HIGH EFFICIENCY HELICAL BEVEL DRIVES

FEATURES:

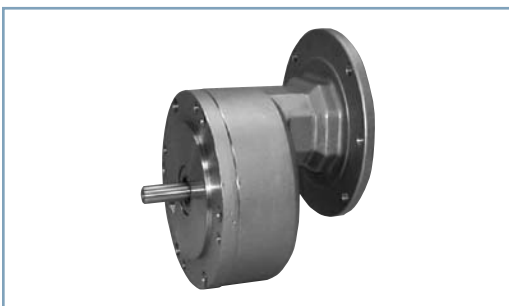
- Ratios from 6:1 to 140:1
- Power Ratings from 3/4 to 12 hp
- Two Models: SSHB2043 and SSHB2063
- Surface Finish Machined to a Ra of 70µin
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- 316 Stainless Steel Housings & Shafts
- HACCP Compatible
- BISSC Certified
- Packaged with LEESON WASHGUARD All-Stainless Motors
- Rebuild for Life Longevity Program
- Patented



CLEANLINE ULTRAPLUS™ STAINLESS STEEL HIGH EFFICIENCY HELICAL RATIO MULTIPLIER

FEATURES:

- 316 Stainless Steel Housing and Shafts
- Smooth Cast Surface Finish
- Ratios up to 7.46 /1
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- High Pressure Seals Configured for Severe High Pressure & Chemical Washdown Environments
- BISSC Certified and HACCP compatible
- Packaged with LEESON WASHGUARD All-Stainless Motors
- Ideal for use between a stainless steel motor and a C-face stainless steel gear drive to gain needed additional gear reduction.





CLEANLINE ULTRAPLUS™ ULTIMATE SOLUTIONS

HUB³™ STAINLESS STEEL WORM GEAR DRIVES

FEATURES:

- Four Sizes: 1.75" CD, 2.06" CD, 2.625" CD & 3.25" CD
- Designed to be Compliant with NSF/ANSI/3-A 14159-1–2002
- Surface Finish Machined to a R_a of 70 μ in
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- Sealed Non-Vented Housing
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- 316 Stainless Steel Housings & Shafts
- HACCP Compatible
- BISSC Certified
- Packaged with LEESON WASHGUARD All-Stainless Motors
- Rebuild for Life Longevity Program
- Patented



HUB³™ STAINLESS STEEL BEVEL GEAR DRIVES

FEATURES:

- Five Models: M3, 165, 175, 65 and 66
- Designed to be Compliant with NSF/ANSI/3-A 14159-1–2002
- Surface Finish Machined to a R_a of 70 μ in
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- 316 Series Stainless Steel Housings & Shafts
- HACCP Compatible
- BISSC Certified
- Rebuild for Life Longevity Program
- Patented



CLEANLINE ULTRAPLUS™ STAINLESS STEEL MOUNTED BEARINGS

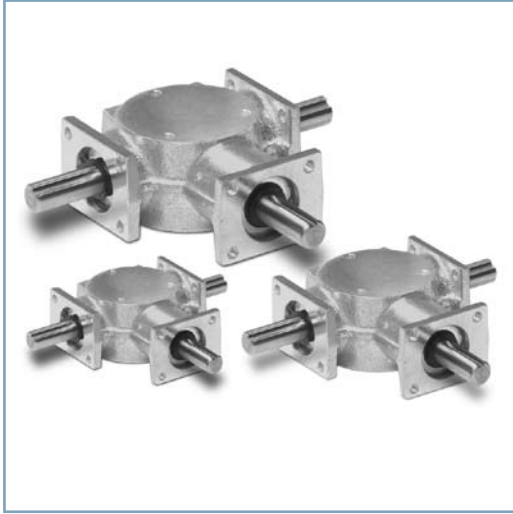
FEATURES:

- 304 Stainless Steel Housing
- 440 Stainless Steel Rings and Balls
- 302 Stainless Steel Flingers and Retainers
- Factory Filled with USDA H1 Lubricant
- Machine Polished to NSF/3-A or Industry Approved Standards
- Bore Sizes Up to 1.9375
- HACCP Compatible





CLEANLINE PLUS™ INTERMEDIATE SOLUTIONS



CLEANLINE PLUS™ AD SERIES BEVEL GEAR DRIVES

FEATURES:

- Three Models: AD3, AD4, AD5
- 303 Stainless Steel Shafts
- Aluminum Housings with Platinum Plus™ Finish
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- High Pressure Seals with V-Rings
- 1/1 and 2/1 Spiral Bevel Gears
- BISSC Certification Optional



CLEANLINE PLUS™ HELICAL RATIO MULTIPLIERS

FEATURES:

- Two Models CPARM1 and CPARM2
- Aluminum Housings with Platinum Plus™ Finish
- BISSC Certification Optional
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- Optional Corrosion and Bacteria Resistant Treatments Available



CLEANLINE PLUS™ THERMOPLASTIC COMPOSITE MOUNTED BEARINGS

FEATURES:

- Ultradur® Glass Reinforced PBT Thermoplastic Housings
- 440 Stainless Steel Rings and Balls
- 302 Stainless Steel Flingers and Retainers
- Factory Filled with USDA H1 Lubricant
- Smooth Surface for Easy Cleaning
- Bore Sizes Up to 1.5"

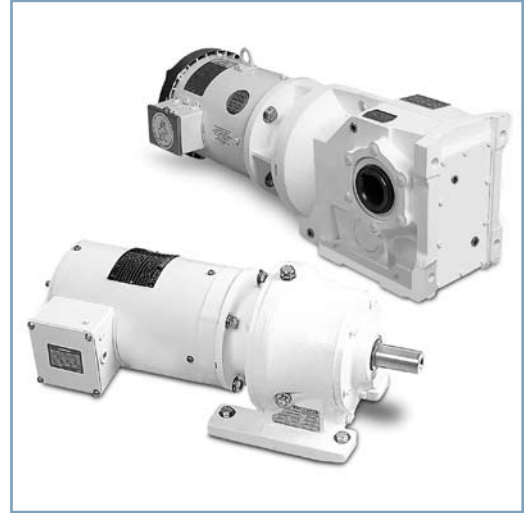


CLEANLINE™ BASIC SOLUTIONS

CLEANLINE™ HIGH EFFICIENCY GEAR DRIVES

FEATURES:

- FDA Approved White Acrylic Paint
- 303 Stainless Steel Output Shafts
- Stainless Steel Hardware and Nameplate
- BISSC Certification Optional
- Available in All Standard Models of Helical Bevel, Helical Worm, Helical Parallel & Helical InLine
- USDA/FDA Approved Stainless Steel Paint Optional



CLEANLINE™ WORM & BEVEL GEAR DRIVES

FEATURES:

- FDA Approved White Acrylic Paint
- 303 Stainless Steel Output Shafts
- Stainless Steel Hardware and Nameplate
- BISSC Certification Optional
- Available in All Standard Models
- USDA/FDA Approved Stainless Steel Paint Optional
- Most Popular Models Available in 5 Days or Less



CLEANLINE PLUS™ MODIFIED & CUSTOM DRIVES

FEATURES:

- Designs Tailored to Your Specifications
- Meets Unique Application Needs
- Special Fabrications
- Corrosion Resistant Treatments such as Powder or Stainless Steel Paint





HOW TO SELECT & ORDER HUB CUBE MODELS

WORM GEAR DRIVES:

- When ordering a worm gear reducer, it is necessary to select reducer size (series), gear ratio, model and assembly style. If accessories are required, they must be ordered separately and in addition to the reducer.
- Selection Information: Refer to pages B-8, B-9 and B-10.
- Mechanical Ratings: Refer to page O-9 for mechanical rating parameters.
- Thermal Ratings: Series SS180, SS210, and SS260 Hub Cube Worm Gear Reducers are not thermally limited. The application service factors associated with mechanical selection and rating, pages B-8, B-9 and O-9, address thermal requirements for the above listed units. In some applications a Thermal Rating may apply to SS320 Worm Gear Drives. If the mechanical service factor selected for a SS320 is 1.50 or less consult the factory with your application information for further assistance.
- Lubrication and Installation: All Hub Cube Worm Gear Reducers are configured and supplied with the correct quantity of lubricating oil from the factory for all horizontal and vertical shaft mounting positions, EXCEPT for THREE UNAPPROVED mounting positions shown in figure SSW1. For applications requiring mounting in any of these unapproved mounting positions, CONSULT HUB CITY. For additional

Worm Gear Hub Cube Lubrication and Installation information, refer to CleanLine Hub³™ pages of Section R.

BEVEL GEAR DRIVES:

- Refer to page D-3 for selection of a Hub Cube Bevel Gear Drive.
- Lubrication and Installation: A Mounting position for a Hub Cube Bevel Gear Drive must be specified at the time of placing the order. (See figure SSB1 for mounting positions.) All Hub Cube Bevel Gear Drives are configured and supplied with the correct quantity of lubricating oil for the specified mounting position. For additional Bevel Hub³™ Lubrication and Installation information, refer to CleanLine Hub³™ pages of Section R.

HELICAL INLINE GEAR DRIVES:

- Refer to section I for selection, page O-19 for ratings.

HELICAL BEVEL GEAR DRIVES:

- Refer to section K for selection, page O-22 for ratings.

HELICAL RATIO MULTIPLIERS:

- Refer to section F for selection, page O-24 for ratings.

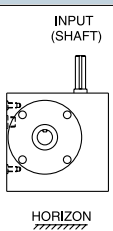
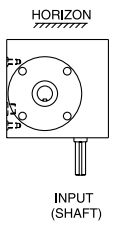
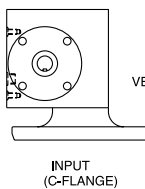
HUB ³ ™ WORM GEAR DRIVES UNAPPROVED MOUNTING POSITIONS	
UNAPPROVED POSITION	Description
1	 <p>INPUT SHAFT MOUNTED VERTICAL/UP</p> <p>HORIZON</p>
2	 <p>INPUT SHAFT MOUNTED VERTICAL/DOWN</p> <p>HORIZON</p>
3	 <p>C-FLANGE MOUNTED VERTICAL/DOWN</p> <p>INPUT (C-FLANGE)</p> <p>HORIZON</p>

FIGURE SSW1

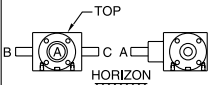

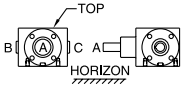
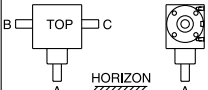
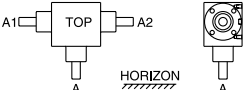
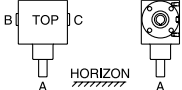
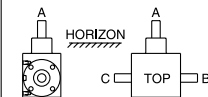
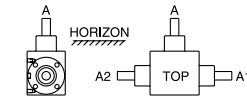
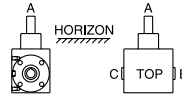
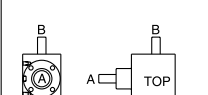
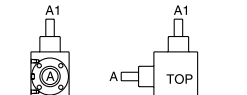
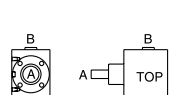

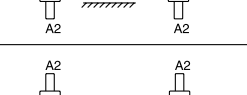
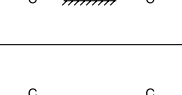
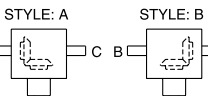
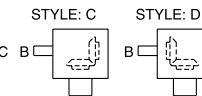
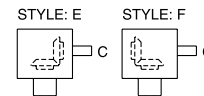
HUB ³ ™ BEVEL GEAR DRIVE MOUNTING POSITIONS						
POSITION	MODELS: SSM3, SS165, SS66 STYLES: * A, B, C, D, E, F	MODELS: SSM3, SS165, SS66 STYLE: G	MODELS: SS175, SS65 STYLES: A, B			
1						
2						
3						
4						
5						
* Only style A and B are shown. For styles C, D, E & F ignore non-applicable shaft extension.		Bevel Geared Units Styles A-F (as viewed from top of unit)				
STYLE: A		STYLE: B	STYLE: C	STYLE: D	STYLE: E	STYLE: F
						

FIGURE SSB1



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

SERIES SS180				SS210		SS260		SS320	
R A T I O	OUTPUT R.P.M.	SERVICE FACTOR		INPUT H.P.	OUTPUT TORQUE	INPUT H.P.	OUTPUT TORQUE	INPUT H.P.	OUTPUT TORQUE
		1.00							
		INPUT H.P.	OUTPUT TORQUE						



Hub³™ Worm Gear
Drives Mechanical
Rating (1.0 SF) &
Continuous Duty
Thermal Rating*

1750 RPM INPUT SPEED (HIGH SPEED SHAFT)									
5	350.0	2.17	358	3.01	492	4.47	723	11.1	1820
7.5	233.0	1.72	415	—	—	—	—	—	—
10	175.0	1.51	472	2.01	621	3.91	1260	7.51	2323
15	116.6	1.12	500	1.52	663	2.51	1110	5.43	2390
20	87.5	.922	536	1.31	748	2.34	1380	4.42	2490
25	70.0	.754	518	1.16	804	2.16	1600	3.76	2550
30	58.3	.675	518	.930	684	1.52	1140	3.29	2450
40	43.8	.547	536	.787	748	1.36	1380	2.67	2490
50	35.0	.439	489	.673	765	1.21	1530	2.23	2440
60	29.2	.365	448	.537	640	.838	986	1.89	2330

1150 RPM INPUT SPEED (HIGH SPEED SHAFT)									
5	230.0	1.73	436	2.40	601	3.67	915	9.02	2270
7.5	153.0	1.36	501	—	—	—	—	—	—
10	115.0	1.13	540	1.64	776	3.18	1570	5.89	2820
15	76.6	.880	598	1.23	826	2.06	1410	4.40	3020
20	57.5	.750	659	1.05	918	1.89	1710	3.60	3170
25	46.0	.583	608	.874	929	1.55	1760	3.06	3250
30	38.3	.530	618	.752	858	1.23	1450	2.63	3120
40	28.8	.431	633	.624	912	1.09	1710	2.14	3170
50	23.0	.345	580	.533	928	.920	1780	1.76	3090
60	19.1	.268	533	.412	761	.670	1250	1.51	2970

850 RPM INPUT SPEED (HIGH SPEED SHAFT)									
5	170.0	1.42	482	2.02	685	3.16	1070	7.87	2700
7.5	113.0	1.12	551	—	—	—	—	—	—
10	85.0	.929	593	1.36	871	2.64	1760	5.08	3310
15	56.6	.750	678	1.03	929	1.74	1610	3.79	3540
20	42.5	.587	688	.873	1019	1.58	1920	3.07	3680
25	34.0	.501	692	.659	929	1.17	1760	2.57	3710
30	28.3	.440	676	.624	954	1.04	1660	2.24	3630
40	21.2	.351	687	.525	1010	.911	1920	1.81	3680
50	17.0	.285	631	.410	934	.695	1780	1.51	3590
60	14.1	.236	573	.312	761	.564	1430	1.13	3030

690 RPM INPUT SPEED (HIGH SPEED SHAFT)									
5	138.0	1.22	508	1.77	735	2.81	1170	7.03	2970
7.5	92.0	1.00	606	—	—	—	—	—	—
10	69.0	.792	620	1.19	928	2.30	1870	4.51	3620
15	46.0	.620	685	.898	987	1.52	1730	3.36	3860
20	34.5	.503	717	.754	1077	1.38	2040	2.72	4010
25	27.6	.411	690	.537	929	1.01	1867	2.09	3710
30	23.0	.379	706	.550	1014	.921	1780	2.01	4010
40	17.2	.306	715	.455	1070	.798	2030	1.60	4000
50	13.8	.251	668	.334	934	.569	1780	1.28	3740
60	11.5	.196	573	.258	761	.501	1534	.912	3030

100 RPM INPUT SPEED (HIGH SPEED SHAFT)									
5	20.0	.251	642	.364	939	.614	1610	1.56	4210
7.5	13.3	.192	688	—	—	—	—	—	—
10	10.0	.167	749	.253	1150	.473	2320	1.02	4980
15	6.6	.135	805	.202	1220	.346	2230	.785	5280
20	5.0	.111	834	.156	1190	.304	2510	.583	4840
25	4.0	.084	703	.104	929	.174	1760	.383	3710
30	3.3	.093	829	.139	1250	.234	2290	.517	5420
40	2.5	.077	830	.109	1200	.189	2380	.391	4880
50	2.0	.061	708	.075	934	.120	1780	.265	3740
60	1.6	.048	573	.060	761	.110	1500	.197	3030

* A THERMAL RATING
MAY APPLY TO SOME
SS320 APPLICATIONS.
SEE REFERENCE #4 ON
PAGE O-8 FOR FURTHER
INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 181 AND 184 400 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 182, AND 185 NOT APPLICABLE.
MODELS 211 AND 214 550 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 212, AND 215 NOT APPLICABLE.
MODELS 261 AND 264 850 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 262, AND 265 NOT APPLICABLE.
MODELS 321 AND 324 1,100 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 322, AND 325 NOT APPLICABLE.

*OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO HUB CITY CUSTOMER SERVICE DEPARTMENT.

CALL: (605) 225-0360 • FAX: (605) 225-0567



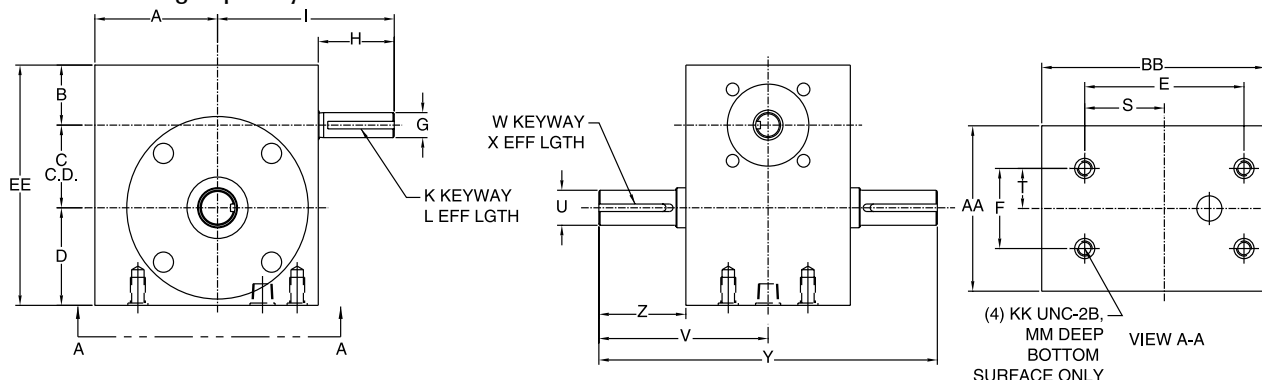
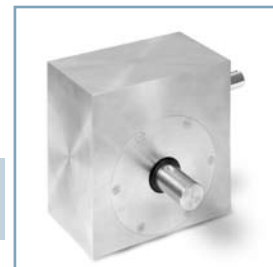
CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ WORM GEAR DRIVES MODELS SS181, SS211, SS261 & SS321

FEATURES:

- 316 Stainless Steel Housings & Output Shafts
- Plated Input Shafts
- Sealed Non-Vented Housing
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- Factory Filled with USDA H1 Lubricant
- Universal Mounting Capability

NOTE: CLEANLINE PHARMACEUTICAL FEATURES POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSP: EXAMPLE SSP181



MODEL	A	B	C	D	E	F	G	H	I	K	L
SS181	2.65	1.374	1.751	1.875	3.125	1.625	.500/.499	1.83	4.00	1/8 X 1/16	1.40
SS211	3.08	1.499	2.064	2.437	4.000	2.000	.625/.624	1.91	4.44	3/16 X 3/32	1.38
SS261	3.46	1.874	2.626	2.938	4.875	2.688	.625/.624	2.73	5.63	3/16 X 3/32	2.20
SS321	4.20	2.124	3.251	3.250	6.250	2.750	.875/.874	2.56	6.75	3/16 X 3/32	2.00

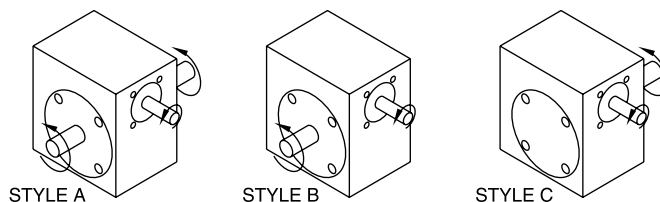
MODEL	S	T	U	V	W	X	Y	Z	AA	BB
SS181	1.56	.81	.750/.749	3.50	3/16 X 3/32	1.30	7.00	1.75	3.50	4.82
SS211	2.00	1.00	.875/.874	4.25	3/16 X 3/32	1.59	8.50	2.19	4.13	5.61
SS261	2.44	1.34	1.250/1.249	4.50	1/4 X 1/8	1.78	9.00	2.23	4.54	6.36
SS321	3.13	1.38	1.375/1.374	5.44	5/16 X 5/32	2.05	10.88	2.74	5.40	8.39

MODEL	EE	KK	MM	WEIGHT (LBS)
SS181	5.000	1/4 NC	.50	16
SS211	6.000	3/8 NC	.70	25
SS261	7.438	3/8 NC	.70	37
SS321	8.625	1/2 NC	.90	75

**FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION R**

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

STANDARD STYLES AVAILABLE



CONSULT FACTORY FOR VERTICAL INPUT SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

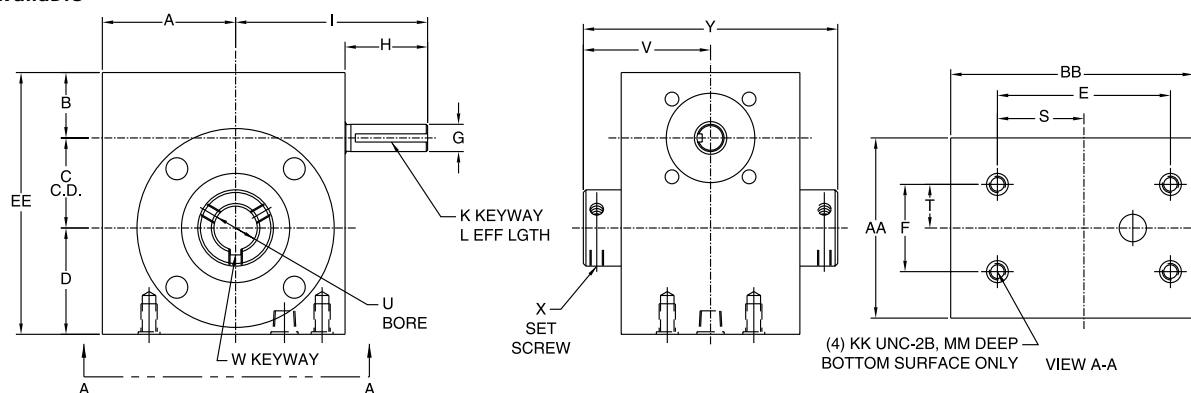
HUB³™ WORM GEAR DRIVES MODELS SS182, SS212, SS262 & SS322

FEATURES:

- 316 Stainless Steel Housings & Output Sleeves
- Plated Input Shafts
- Sealed Non-Vented Housing
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- Factory Filled with USDA H1 Lubricant
- Universal Mounting Capability
- Optional Seize Proof Output Sleeve Liners Available

NOTE: CLEANLINE PHARMACEUTICAL FEATURES POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSP: EXAMPLE SSP182

SHAFT MOUNTED UNITS REQUIRE TORQUE ARM. TORQUE ARM KITS ARE AVAILABLE, SEE PAGE O-27



MODEL	A	B	C	D	E	F	G	H	I	K	L	S	T	V	Y
SS182	2.65	1.374	1.751	1.875	3.125	1.625	.500/.499	1.83	4.00	1/8 X 1/16	1.40	1.56	.81	2.40	4.81
SS212	3.08	1.499	2.064	2.437	4.000	2.000	.625/.624	1.91	4.44	3/16 X 3/32	1.38	2.00	1.00	2.94	5.88
SS262	3.46	1.874	2.626	2.938	4.875	2.688	.625/.624	2.73	5.63	3/16 X 3/32	2.20	2.44	1.34	3.12	6.25
SS322	4.20	2.124	3.251	3.250	6.250	2.750	.875/.874	2.56	6.75	3/16 X 3/32	2.00	3.13	1.38	3.78	7.56

STOCK BORES

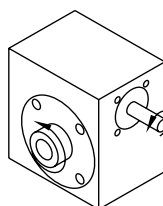
MODEL	U	W	X	KEY FURNISHED
SS182	.9375	1/4 X 1/8	1/4 UNC	1/4 Sq.
	1.000 (MAX)	1/4 X 1/8	1/4 UNC	1/4 Sq.
SS212	1.000	1/4 X 1/8	5/16 UNC	1/4 Sq.
	1.1875	1/4 X 1/8	5/16 UNC	1/4 Sq.
	1.250 (MAX)	1/4 X 1/8	5/16 UNC	1/4 Sq.
SS262	1.000	1/4 X 1/8	5/16 UNC	1/4 Sq.
	1.1875	1/4 X 1/8	5/16 UNC	1/4 Sq.
	1.250	1/4 X 1/8	5/16 UNC	1/4 Sq.
	1.4375 (MAX)	3/8 X 1/8	1/4 UNC OVER KW 5/16 UNC NON KW	3/8 X 5/16
SS322	1.4375	3/8 X 3/16	3/8 UNC	3/8 Sq.
	1.9375	1/2 X 1/4	3/8 UNC	1/2 Sq.
	2.188 (MAX)	1/2 X 1/8	3/8 UNC	1/2 Sq.

MODEL	AA	BB	EE	KK	MM	WEIGHT (LBS)
SS182	3.50	4.82	5.000	1/4 NC	.50	16
SS212	4.13	5.61	6.000	3/8 NC	.70	25
SS262	4.54	6.36	7.438	3/8 NC	.70	37
SS322	5.40	8.39	8.625	1/2 NC	.90	75

**FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION R**

BORE TOLERANCE: NOMINAL +.002

STANDARD STYLES AVAILABLE



DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

CONSULT FACTORY FOR VERTICAL INPUT SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ MOTORIZED WORM GEAR DRIVES MODELS SS184, SS214, SS264 & SS324

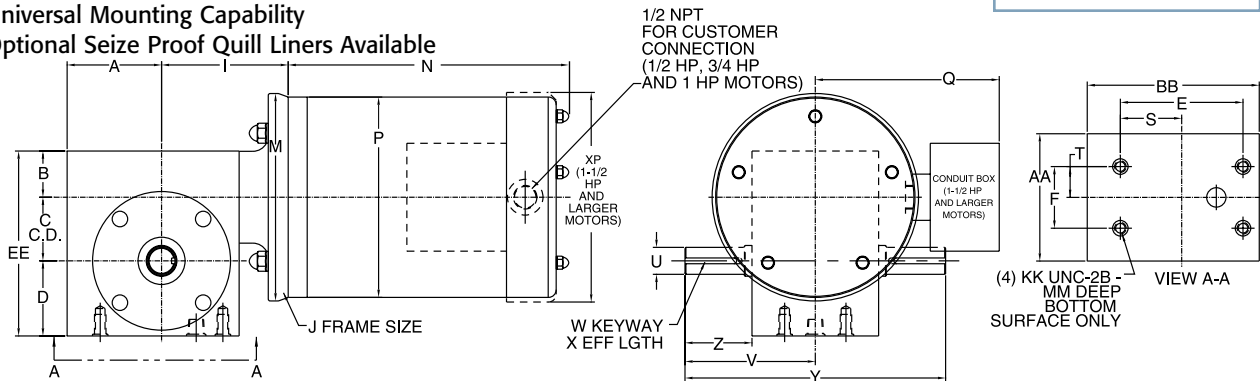


FEATURES:

- 316 Stainless Steel Housings & Shafts
- LEESON WASHGUARD All-Stainless Motors
- Integrated Rear Conduit Box 1/4 thru 1 hp
- Sealed Non-Vented Housing
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- Factory Filled with USDA H1 Lubricant
- Universal Mounting Capability
- Optional Seize Proof Quill Liners Available

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

NOTE: CLEANLINE PHARMACEUTICAL FEATURES POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSP: EXAMPLE SSP184



MODEL	A	B	C	D	E	F	I	J	M	MOTOR HP	FRAME	STYLE	N	P	Q	XP	MOTOR WT
SS184	2.65	1.374	1.751	1.875	3.125	1.625	3.75	56C	6.73	1/4 HP	56C	TENV	9.15	6.50	NA	NA	30
SS214	3.08	1.499	2.064	2.437	4.000	2.000	4.13	56C	6.73	1/3 HP	56C	TENV	9.15	6.50	NA	NA	30
								143TC		1/2 HP	56C	TENV	10.15	6.50	NA	NA	32
SS264	3.46	1.874	2.626	2.938	4.875	2.688	4.50	56C	6.73	3/4 HP	56C	TENV	10.65	6.50	NA	NA	39
								143TC		1 HP	56C	TENV	11.65	6.50	NA	NA	40
							5.00	182TC	9.00	1-1/2 HP	143TC	TEFC	11.57	6.60	6.19	7.16	46
SS324	4.20	2.124	3.251	3.250	6.250	2.750	5.50	56C	6.73	2 HP	143TC	TEFC	12.07	6.60	6.19	7.16	47
								143TC		3 HP	182TC	TEFC	11.99	8.53	7.19	9.22	67
							6.25	182TC	9.00	5 HP	182TC	TEFC	12.99	8.53	7.19	9.22	79

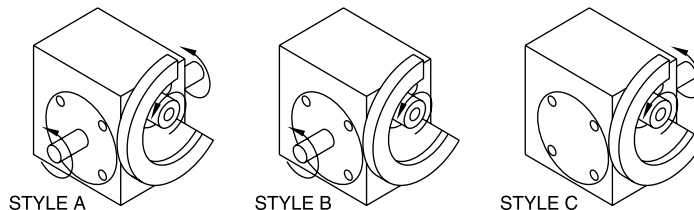
MOTORS ARE 1750 RPM - 230/460 VOLT - 3 PHASE - SOLD SEPARATELY

MODEL	S	T	U	V	W	X	Y	Z	AA	BB	EE	KK	MM	WEIGHT* (LBS)
SS184	1.56	.81	.750/.749	3.50	3/16 X 3/32	1.30	7.00	1.75	3.50	4.82	5.000	1/4 NC	.50	21
SS214	2.00	1.00	.875/.874	4.25	3/16 X 3/32	1.59	8.50	2.19	4.13	5.61	6.000	3/8 NC	.70	30
SS264	2.44	1.34	1.250/1.249	4.50	1/4 X 1/8	1.78	9.00	2.23	4.54	6.36	7.438	3/8 NC	.70	42
SS324	3.13	1.38	1.375/1.374	5.44	5/16 X 5/32	2.05	10.88	2.74	5.40	8.39	8.625	1/2 NC	.90	80

*WEIGHT OF GEAR BOX ONLY - DOES NOT INCLUDE MOTOR.

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

STANDARD STYLES AVAILABLE



CONSULT FACTORY FOR VERTICAL INPUT SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ MOTORIZED WORM GEAR DRIVES MODELS SS185, SS215, SS265 & SS325

FEATURES:

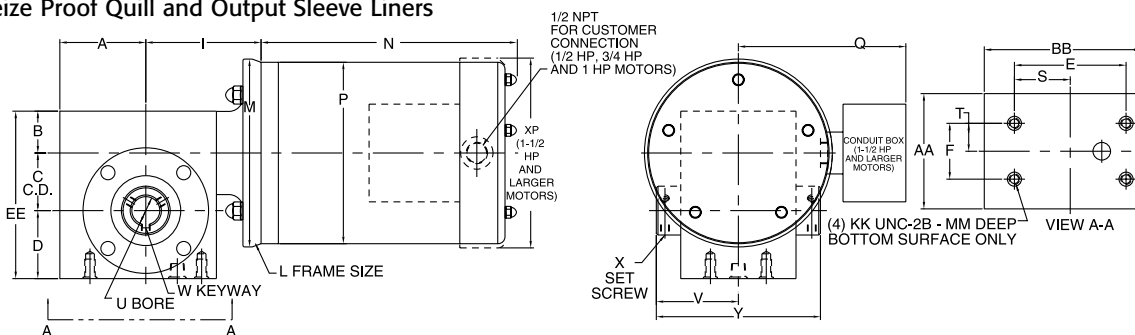
- 316 Stainless Steel Housings & Output Sleeves
- LEESON WASHGUARD All-Stainless Motors
- Integrated Rear Conduit Box 1/4 thru 1 hp
- Sealed Non-Vented Housing
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- Factory Filled with USDA H1 Lubricant
- Universal Mounting Capability
- Optional Seize Proof Quill and Output Sleeve Liners Available

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

NOTE: CLEANLINE PHARMACEUTICAL FEATURES POLISHED EXTERIOR SURFACES.

TO ORDER SPECIFY SSP: EXAMPLE SSP185

SHAFT MOUNTED UNITS REQUIRE TORQUE ARM. TORQUE ARM KITS ARE AVAILABLE, SEE PAGE O-27



MODEL	A	B	C	D	E	F	I	J	M
SS185	2.65	1.374	1.751	1.875	3.125	1.625	3.75	56C	6.73
SS215	3.08	1.499	2.064	2.437	4.000	2.000	4.13	56C 143TC	6.73
SS265	3.46	1.874	2.626	2.938	4.875	2.688	4.50	56C 143TC	6.73
							5.00	182TC	9.00
SS325	4.20	2.124	3.251	3.250	6.250	2.750	5.50	56C 143TC	6.73
							6.25	182TC	9.00

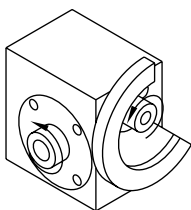
MOTOR HP	FRAME	STYLE	N	P	Q	XP	MOTOR WT
1/4 HP	56C	TENV	9.15	6.50	NA	NA	30
1/3 HP	56C	TENV	9.15	6.50	NA	NA	30
1/2 HP	56C	TENV	10.15	6.50	NA	NA	32
3/4 HP	56C	TENV	10.65	6.50	NA	NA	39
1 HP	56C	TENV	11.65	6.50	NA	NA	40
1-1/2 HP	143TC	TEFC	11.57	6.60	6.19	7.16	46
2 HP	143TC	TEFC	12.07	6.60	6.19	7.16	47
3 HP	182TC	TEFC	11.99	8.53	7.19	9.22	67
5 HP	182TC	TEFC	12.99	8.53	7.19	9.22	79

MOTORS ARE 1750 RPM - 230/460 VOLT - 3 PHASE - SOLD SEPARATELY

MODEL	S	T	V	Y	AA	BB	EE	KK	MM	WGT* (LBS)
SS185	1.56	.81	2.40	4.81	3.50	4.82	5.000	1/4 NC	.50	21
SS215	2.00	1.00	2.94	5.88	4.13	5.61	6.000	3/8 NC	.70	30
SS265	2.44	1.34	3.12	6.25	4.54	6.36	7.438	3/8 NC	.70	42
SS325	3.13	2.75	3.78	7.56	5.40	8.39	8.625	1/2 NC	.90	80

*WEIGHT OF GEAR BOX ONLY - DOES NOT INCLUDE MOTOR.

STANDARD STYLES AVAILABLE



MODEL	U	W	X	KEY FURNISHED
SS185	.9375 1.000 (MAX)	1/4 X 1/8 1/4 X 1/8	1/4 UNC 1/4 UNC	1/4 Sq. 1/4 Sq.
SS215	1.000 1.1875 1.250 (MAX)	1/4 X 1/8 1/4 X 1/8 1/4 X 1/8	5/16 UNC 5/16 UNC 5/16 UNC	1/4 Sq. 1/4 Sq. 1/4 Sq.
SS265	1.000 1.1875 1.250 1.4375 (MAX)	1/4 X 1/8 1/4 X 1/8 1/4 X 1/8 3/8 X 1/8	5/16 UNC 5/16 UNC 5/16 UNC 1/4 UNC OVER KW 5/16 UNC NON KW	1/4 Sq. 1/4 Sq. 1/4 Sq. 3/8 X 5/16
SS325	1.4375 1.9375 2.188 (MAX)	3/8 X 3/16 1/2 X 1/4 1/2 X 1/8	3/8 UNC 3/8 UNC 3/8 UNC	3/8 Sq. 1/2 Sq. 1/2 Sq.

BORE TOLERANCE: NOMINAL +.002

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

CONSULT FACTORY FOR VERTICAL INPUT SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

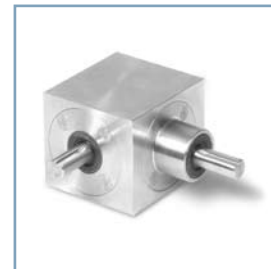


CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL HUB³™ BEVEL GEAR DRIVES MODEL SSM3



FEATURES

- 316 Series Stainless Steel Housings & Shafts
- All Exterior Surfaces Machined
- Precision Ball Bearings to Accommodate Higher Operating Speeds.
- Choice of Five (5) Gear Ratios.
- Factory Configured for Universal Mounting Assures Maximum Design Flexibility
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- Factory Filled with USDA H1 Lubricant



NOTE: CLEANLINE PHARMACEUTICAL FEATURES
POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSPM3

RATING TABLE

INPUT RPM†		REDUCTION RATIOS				
		1:1	SPIRAL 1:1Δ	1.5:1	2:1	SPIRAL 2:1Δ
3000	INPUT HORSEPOWER		3.59	2.60	1.75	1.77
	OUTPUT TORQUE IN. LBS.		75.50	82.00	73.00	74.20
	‡INPUT O.H.L.		25.00	72.00	83.00	30.00
	‡OUTPUT O.H.L.		70.00	200.00	245.00	100.00
2400	INPUT HORSEPOWER	3.00	2.95	2.10	1.40	1.45
	OUTPUT TORQUE IN. LBS.	79.00	77.40	83.00	74.00	76.10
	‡INPUT O.H.L.	67.00	45.00	85.00	90.00	50.00
	‡OUTPUT O.H.L.	155.00	105.00	220.00	270.00	135.00
1750	INPUT HORSEPOWER	2.25	2.19	1.57	1.04	1.07
	OUTPUT TORQUE IN. LBS.	81.00	78.70	84.00	75.00	77.20
	‡INPUT O.H.L.	88.00	60.00	98.00	102.00	70.00
	‡OUTPUT O.H.L.	177.00	150.00	245.00	300.00	180.00
1150	INPUT HORSEPOWER	1.50	1.47	1.03	.70	.72
	OUTPUT TORQUE IN. LBS.	83.00	80.30	85.00	77.00	78.60
	‡INPUT O.H.L.	110.00	90.00	118.00	121.00	95.00
	‡OUTPUT O.H.L.	205.00	175.00	290.00	350.00	210.00
850	INPUT HORSEPOWER	1.13	1.10	.80	.53	.54
	OUTPUT TORQUE IN. LBS.	84.00	81.30	88.00	78.00	79.40
	‡INPUT O.H.L.	131.00	100.00	137.00	142.00	105.00
	‡OUTPUT O.H.L.	240.00	210.00	320.00	382.00	240.00
690	INPUT HORSEPOWER	.93	.90	.65	.43	.44
	OUTPUT TORQUE IN. LBS.	85.00	81.90	89.00	80.00	80.00
	‡INPUT O.H.L.	137.00	110.00	144.00	148.00	112.00
	‡OUTPUT O.H.L.	267.00	230.00	350.00	400.00	270.00
400	INPUT HORSEPOWER	.55	.53	.39	.26	.26
	OUTPUT TORQUE IN. LBS.	87.00	83.30	92.00	82.00	81.20
	‡INPUT O.H.L.	169.00	125.00	175.00	180.00	138.00
	‡OUTPUT O.H.L.	330.00	300.00	400.00	400.00	330.00
300	INPUT HORSEPOWER	.42	.40	.30	.20	.19
	OUTPUT TORQUE IN. LBS.	88.00	84.70	95.00	83.00	82.40
	‡INPUT O.H.L.	189.00	150.00	190.00	190.00	152.00
	‡OUTPUT O.H.L.	378.00	400.00	400.00	400.00	400.00
100	INPUT HORSEPOWER	.14	.14	.12	.08	.07
	OUTPUT TORQUE IN. LBS.	90.00	85.80	113.00	100.00	83.20
	‡INPUT O.H.L.	190.00	160.00	190.00	190.00	175.00
	‡OUTPUT O.H.L.	400.00	400.00	400.00	400.00	400.00

†FOR HIGHER INPUT SPEEDS CONSULT FACTORY.

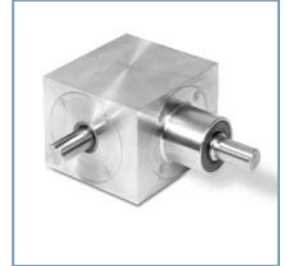
‡OVERHUNG LOAD IN POUNDS AT CENTER OF SHAFT EXTENSIONS.
ΔMFG. TO ORDER - CONSULT FACTORY FOR PRICE AND DELIVERY.



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL HUB³™ BEVEL GEAR DRIVES MODELS SS165 & SS175

FEATURES

- 316 Series Stainless Steel Housings & Shafts
- All Exterior Surface Machined
- Tapered Roller Bearings for Endurance and Strength
- Choice of Seven (7) Gear Ratios
- Sealed – Non-Vented Housing
- Factory Configured for Universal Mounting Assures Maximum Design Flexibility
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- Factory Filled with USDA H1 Food Grade Lubricant



NOTE: CLEANLINE PHARMACEUTICAL FEATURES
POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSP165 OR SSP175

RATING TABLE

INPUT RPM†		REDUCTION RATIOS						
		1:1*	SPIRAL 1:1	1.5:1*	SPIRAL 1.5:1	2:1*	SPIRAL 2:1	SPIRAL 3:1
3000	INPUT HORSEPOWER		26.87		28.00		16.75	8.70
	OUTPUT TORQUE IN. LBS.		564.00		883.00		703.00	548.00
	‡INPUT O.H.L.		25.00		25.00		55.00	225.00
	‡OUTPUT O.H.L.		160.00		200.00		500.00	625.00
2400	INPUT HORSEPOWER		21.80		22.70	9.00	13.65	7.00
	OUTPUT TORQUE IN. LBS.		570.00		895.00	341.00	717.00	554.00
	‡INPUT O.H.L.		54.00		50.00	330.00	85.00	275.00
	‡OUTPUT O.H.L.		215.00		225.00	410.00	600.00	700.00
1750	INPUT HORSEPOWER		16.00	9.20	16.90	6.25	10.25	5.20
	OUTPUT TORQUE IN. LBS.		580.00	500.00	911.00	442.00	736.00	562.00
	‡INPUT O.H.L.		114.00	366.00	75.00	372.00	125.00	350.00
	‡OUTPUT O.H.L.		265.00	320.00	275.00	455.00	665.00	775.00
1150	INPUT HORSEPOWER	17.00	11.00	6.20	11.30	4.25	7.00	3.50
	OUTPUT TORQUE IN. LBS.	930.00	600.00	510.00	930.00	465.00	761.00	571.00
	‡INPUT O.H.L.	79.00	182.00	426.00	125.00	434.00	200.00	475.00
	‡OUTPUT O.H.L.	260.00	310.00	380.00	375.00	525.00	750.00	800.00
850	INPUT HORSEPOWER	13.00	8.30	4.70	8.50	3.25	5.25	2.60
	OUTPUT TORQUE IN. LBS.	960.00	615.00	520.00	941.00	481.00	777.00	576.00
	‡INPUT O.H.L.	121.00	211.00	473.00	250.00	481.00	280.00	575.00
	‡OUTPUT O.H.L.	305.00	355.00	425.00	450.00	555.00	800.00	800.00
690	INPUT HORSEPOWER	10.60	6.80	3.90	6.90	2.70	4.30	2.10
	OUTPUT TORQUE IN. LBS.	970.00	620.00	530.00	950.00	494.00	788.00	578.00
	‡INPUT O.H.L.	156.00	243.00	508.00	325.00	517.00	345.00	600.00
	‡OUTPUT O.H.L.	345.00	395.00	470.00	500.00	575.00	800.00	800.00
400	INPUT HORSEPOWER	6.30	4.10	2.30	4.10	1.60	2.60	1.24
	OUTPUT TORQUE IN. LBS.	1000.00	645.00	550.00	964.00	504.00	815.00	586.00
	‡INPUT O.H.L.	374.00	319.00	600.00	375.00	600.00	500.00	600.00
	‡OUTPUT O.H.L.	425.00	475.00	610.00	650.00	780.00	800.00	800.00
300	INPUT HORSEPOWER	5.00	3.10	1.80	3.10	1.25	2.00	.94
	OUTPUT TORQUE IN. LBS.	1010.00	650.00	560.00	974.00	525.00	829.00	592.00
	‡INPUT O.H.L.	450.00	384.00	600.00	475.00	600.00	600.00	600.00
	‡OUTPUT O.H.L.	500.00	550.00	655.00	750.00	800.00	800.00	800.00
100	INPUT HORSEPOWER	1.65	1.10	.65	1.05	.50	.70	.32
	OUTPUT TORQUE IN. LBS.	1040.00	693.00	615.00	993.00	630.00	876.00	605.00
	‡INPUT O.H.L.	600.00	600.00	600.00	600.00	600.00	600.00	600.00
	‡OUTPUT O.H.L.	775.00	800.00	800.00	800.00	800.00	800.00	800.00

†FOR HIGHER INPUT SPEEDS CONSULT FACTORY.

‡OVERHUNG LOAD IN POUNDS AT CENTER OF SHAFT EXTENSIONS.

* NOT AVAILABLE IN MODEL 175



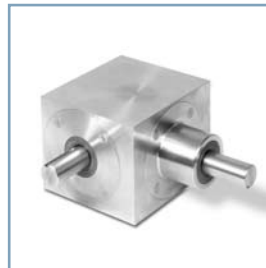
CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL HUB³™ BEVEL GEAR DRIVES MODELS SS66 & SS65



FEATURES

- 316 Series Stainless Steel Housings & Shafts
- All Exterior Surface Machined
- Tapered Roller Bearings for Endurance and Strength
- Choice of Seven (7) Gear Ratios
- Factory Configured for Universal Mounting Assures Maximum Design Flexibility
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- Factory Filled with USDA H1 Food Grade Lubricant

NOTE: CLEANLINE PHARMACEUTICAL FEATURES,
POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSP66 OR SSP65



RATING TABLE

INPUT RPM†		REDUCTION RATIOS						
		1:1*	SPIRAL 1:1	1.5:1*	SPIRAL 1.53:1	2:1*	SPIRAL 2:1	SPIRAL 3:1
3000	INPUT HORSEPOWER				56.00		25.50	15.40
	OUTPUT TORQUE IN. LBS.				1765.00		1072.00	951.00
	‡INPUT O.H.L.				38.00		100.00	35.00
	‡OUTPUT O.H.L.				80.00		725.00	100.00
2400	INPUT HORSEPOWER		59.00		46.00		20.67	12.50
	OUTPUT TORQUE IN. LBS.		1550.00		1810.00		1085.00	961.00
	‡INPUT O.H.L.		30.00		59.00		125.00	45.00
	‡OUTPUT O.H.L.		65.00		100.00		800.00	225.00
1750	INPUT HORSEPOWER		46.00	15.00	35.00	7.30	15.40	9.20
	OUTPUT TORQUE IN. LBS.		1650.00	810.00	1887.00	525.00	1112.00	975.00
	‡INPUT O.H.L.		62.00	351.00	97.00	459.00	225.00	85.00
	‡OUTPUT O.H.L.		100.00	300.00	140.00	330.00	900.00	350.00
1150	INPUT HORSEPOWER	24.20	30.50	10.60	23.00	5.40	10.30	6.15
	OUTPUT TORQUE IN. LBS.	1320.00	1670.00	870.00	1930.00	591.00	1125.70	989.00
	‡INPUT O.H.L.	126.00	109.00	446.00	133.00	521.00	400.00	100.00
	‡OUTPUT O.H.L.	190.00	160.00	340.00	190.00	380.00	1075.00	500.00
850	INPUT HORSEPOWER	19.00	24.00	8.20	18.00	4.50	7.68	4.60
	OUTPUT TORQUE IN. LBS.	1410.00	1790.00	910.00	2000.00	667.00	1139.00	998.00
	‡INPUT O.H.L.	158.00	143.00	524.00	161.00	567.00	525.00	195.00
	‡OUTPUT O.H.L.	230.00	210.00	400.00	230.00	440.00	1080.00	750.00
690	INPUT HORSEPOWER	16.30	20.00	7.10	15.00	3.90	6.28	3.75
	OUTPUT TORQUE IN. LBS.	1480.00	1830.00	970.00	2050.00	712.00	1147.00	1009.00
	‡INPUT O.H.L.	213.00	178.00	558.00	217.00	603.00	600.00	215.00
	‡OUTPUT O.H.L.	265.00	250.00	445.00	270.00	465.00	1080.00	800.00
300	INPUT HORSEPOWER	8.14	10.00	3.50	7.00	1.80	2.80	1.65
	OUTPUT TORQUE IN. LBS.	1700.00	2100.00	1100.00	2205.00	756.00	1177.00	1031.00
	‡INPUT O.H.L.	418.00	312.00	744.00	421.00	806.00	900.00	550.00
	‡OUTPUT O.H.L.	425.00	420.00	645.00	425.00	715.00	1080.00	1080.00
100	INPUT HORSEPOWER	2.86	3.70	1.40	3.00	.70	.95	.55
	OUTPUT TORQUE IN. LBS.	1800.00	2330.00	1320.00	2835.00	882.00	1198.00	1056.00
	‡INPUT O.H.L.	625.00	493.00	900.00	611.00	900.00	900.00	800.00
	‡OUTPUT O.H.L.	695.00	685.00	965.00	685.00	1080.00	1080.00	1080.00
WR ₂ (Lb. In.) REFERRED TO HIGH SPEED SHAFT		STYLE						
		A, B	6.29	5.42	3.10	4.04	1.87	1.24
		C, D, E, F	6.08	5.21	3.00	3.96	1.82	1.22
		G	8.76	7.45	4.43	6.27	2.59	1.68
		GG	9.21	7.90	4.46	5.47	2.81	1.97
WR ₂ (Lb. In.) REFERRED TO LOW SPEED SHAFT		A, B	6.29	5.42	6.97	9.42	7.50	11.17
		C, D, E, F	6.08	5.21	6.76	9.22	7.29	10.96
		G	8.76	7.45	9.96	14.62	10.35	15.16
		GG	9.21	7.90	10.03	12.74	11.22	17.70

†FOR HIGHER INPUT SPEEDS CONSULT FACTORY.

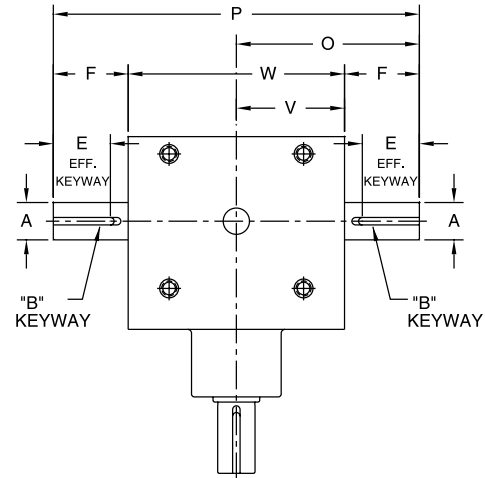
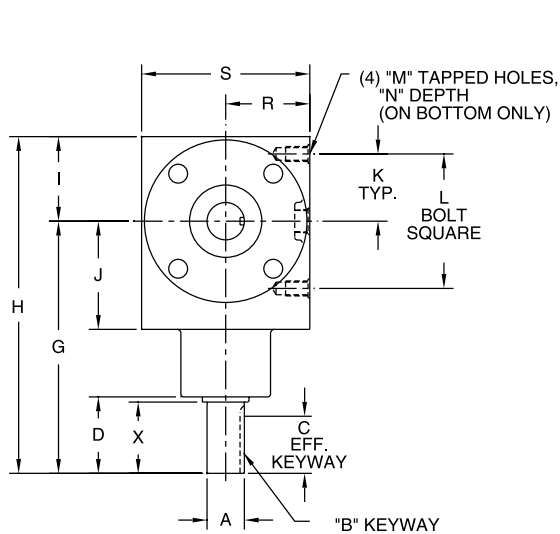
‡OVERHUNG LOAD IN LBS. AT CENTER OF SHAFT EXTENSIONS.

* NOT AVAILABLE IN MODEL 65



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ BEVEL GEAR DRIVES MODELS SSM3, SS165 & SS66



	WEIGHTS (LBS)	SSM3	SS165	SS66
Styles A,B,C,D,E,F		13	31	54
Styles G		16	39	65

MODEL	A	B	C	D	E	F	G	H	I	J
SSM3	0.625 0.624	3/16 X 3/32 KW	1.00*	1.53	1.00	1.35	4.57	6.20	1.63	1.89
SS165	1.000 0.999	1/4 X 1/8 KW	1.44**	2.03	1.53	2.07	7.16	9.72	2.56	3.03
SS66	1.250 1.249	1/4 X 1/8 KW	1.91	2.56	1.91	2.51	8.44	11.27	2.83	3.62

MODEL	K	L	M	N	O	P	R	S	V	W	X
SSM3	1.125	2.250	5/16-18UNC-2B	0.44	3.24	6.47	1.594	3.188	1.89	3.78	N/A
SS165	2.125	4.250	3/8-16UNC-2B	0.69	5.10	10.19	2.313	4.625	3.03	6.06	1.89
SS66	2.250	4.500	1/2-13UNC-2B	0.81	6.13	12.25	2.814	5.628	3.62	7.24	N/A

- * - 1.16 EFFECTIVE KEYWAY ON SSM3, 2/1 STRAIGHT BEVEL RATIO
 ** - 1.53 EFFECTIVE KEYWAY ON SS165, 3/1 SPIRAL BEVEL RATIO

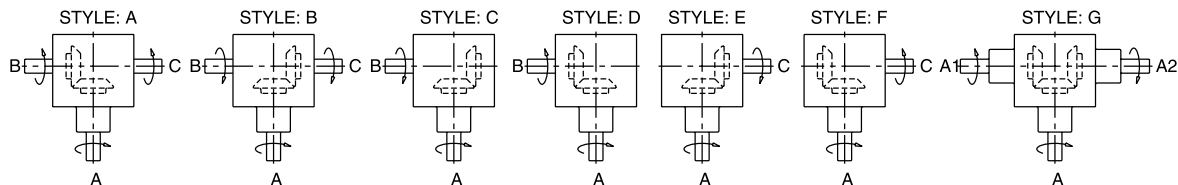
NOTE: STYLE G;
 1. DIMENSIONS FOR SHAFTS A, A1 AND A2 ARE IDENTICAL FOR ALL RATIOS.
 2. CENTERLINE TO END OF SHAFT DIMENSIONS WILL VARY. REQUEST CERTIFIED DIMENSIONAL PRINTS.

"A" SHAFT EXTENSION ON SSM3 2/1 STRAIGHT BEVEL, SS165 3/1 SPIRAL BEVEL AND SS66 3/1 SPIRAL BEVEL RATIOS ARE MADE FROM 8620 STEEL TREATED FOR CORROSION RESISTANCE.

STANDARD STYLES AVAILABLE

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
 DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

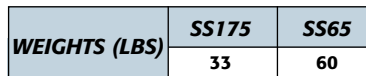
(Viewed from Top of Gear Drives - Mounting Holes on Bottom Surface **Only**)



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
 INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION



HUB³™ BEVEL GEAR DRIVES MODELS SS175 & SS65



MODEL	M	N	O	P	R	S	T	U	V	W	X
SS175	3/8-16UNC-2B	0.69	3.20	6.40	2.313	4.625	1/4 X 1/8 KW	1.0000 1.0025	3.30	6.06	1.89
SS65	1/2-13UNC-2B	0.81	3.94	7.88	2.814	5.628	1/4 X 1/8 KW	1.2500 1.2525	3.62	7.24	N/A

"A" SHAFT EXTENSION ON SS175 3/1 SPIRAL BEVEL AND SS65 3/1 SPIRAL BEVEL RATIOS ARE MADE FROM 8620 STEEL TREATED FOR CORROSION RESISTANCE.

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
 DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

0-18

CALL: (605) 225-0360 • FAX: (605) 225-0567



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ HELICAL INLINE GEAR DRIVES MODELS SSHI4042 & SSHI4062

FEATURES

- Ratios from 2.57/1 to 51.25/1
- Power Ratings to 18HP
- Two Models: SSHI4042 and SSHI4062
- Smooth Cast Surface Finish
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- High Pressure Dual Lip Seals Configured for Severe High Pressure & Chemical Washdown Environments
- 316 Stainless Steel Housings & Shafts
- HACCP Compatible
- BISSC Certified
- Packaged with LEESON WASHGUARD All-Stainless Motors
- Optional Seize Proof Quill Liners Available
- 95% Efficiency Ratings



NOTE: CLEANLINE PHARMACEUTICAL FEATURES
POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSHBP2043 OR SSHBP2063

RATING TABLE

SSHI4042						
RATIO	OUTPUT SPEED	INPUT H.P.	OUTPUT TORQUE	OUTPUT OHL	INPUT OHL	OUTPUT THRUST
2.63	665	11.2	1020	530	140	610
2.95	593	10.4	1060	550	140	630
3.31	529	9.61	1100	570	140	650
3.72	470	9.10	1170	580	140	660
4.21	416	8.79	1280	590	140	650
4.78	366	7.75	1280	620	140	690
5.47	320	6.77	1280	650	140	730
5.87	298	6.31	1280	680	140	780
6.13	285	6.79	1440	710	140	840
6.86	255	6.16	1460	740	140	880
7.70	227	5.56	1480	770	140	920
8.67	202	5.17	1550	790	140	950
9.80	179	4.75	1610	820	140	980
11.14	157	4.41	1700	850	140	1010
12.74	137	3.95	1740	890	140	1060
13.67	128	3.77	1780	920	140	1100
16.66	105	3.13	1800	980	140	1250
20.77	84	2.52	1810	1050	140	1250
25.04	70	2.10	1820	1150	140	1250
28.79	61	1.84	1830	1150	140	1250
36.56	48	1.46	1840	1150	140	1250
44.10	40	1.21	1850	1150	140	1250
50.47	35	1.01	1770	1150	140	1250
SSHI4062						
2.57	681	18.6	1650	960	200	890
3.08	568	16.5	1760	1010	200	930
3.90	449	13.9	1880	1090	200	1000
4.52	387	12.6	1970	1140	200	1050
5.98	293	15.8	3260	1080	200	870
7.16	244	13.5	3340	1180	200	990
9.06	193	11.0	3450	1290	200	1110
10.52	166	10.1	3680	1340	200	1140
13.75	127	8.22	3910	1470	200	1260
16.43	107	7.04	4000	1560	200	1370
17.50	100	6.63	4010	1600	200	1400
20.00	88	5.83	4030	1600	200	1400
21.47	82	5.44	4040	1600	200	1400
25.00	70	4.69	4050	1600	200	1400
27.14	64	4.33	4060	1600	200	1400
29.62	59	3.97	4070	1600	200	1400
32.50	54	3.64	4090	1600	200	1400
35.91	48.7	3.30	4100	1600	200	1400
45.00	38.9	2.64	4110	1600	200	1400
51.25	34.1	2.33	4120	1600	200	1400

ALL TORQUE VALUES LISTED IN INCH-POUNDS, ALL OVERHUNG LOAD AND THRUST LOAD VALUES LISTED IN POUNDS.

THE POINT OF APPLICATION OF OHL IS CONSIDERED TO BE APPLIED AT THE MIDPOINT OF SHAFT EXTENSION. INPUT OHL APPLIES ONLY TO SHAFT INPUT MODELS.

OHL AND THRUST RATINGS CANNOT BE APPLIED SIMULTANEOUSLY. CONSULT THE FACTORY FOR APPLICATIONS WITH COMBINED OHL AND THRUST LOAD.

AT SPEEDS ABOVE 1750 RPM, UNITS MAY BECOME THERMALLY LIMITED. FOR EXTENDED OPERATION, LIMIT HP TO 1750 RPM RATING.

CALL: (605) 225-0360 • FAX: (605) 225-0567



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ HELICAL INLINE GEAR DRIVES MODELS SSHI4042 & SSHI4062



MODELS SSHI4042E & SSHI4062E

GEARCASE

MODEL	A	AD	B	BA	D	E	F	H	OA
SSHI4042E	5.72	6.61	6.30	2.95	3.54 ⁺⁰ _{-.02}	4.33	5.12	0.39	6.68
SSHI4062E	7.48	7.93	7.87	3.94	4.53 ⁺⁰ _{-.02}	5.32	6.50	0.53	8.48

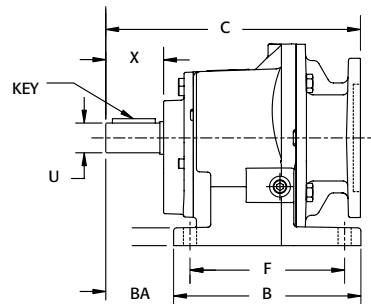
OUTPUT SHAFT

MODEL	U	X	KEY
SSHI4042E	1.000 ⁺⁰ _{-.001}	2.12	1/4 x 1/4 x 1-1/2
SSHI4062E	1.375 ⁺⁰ _{-.001}	2.83	5/16 x 5/16 x 1-3/4

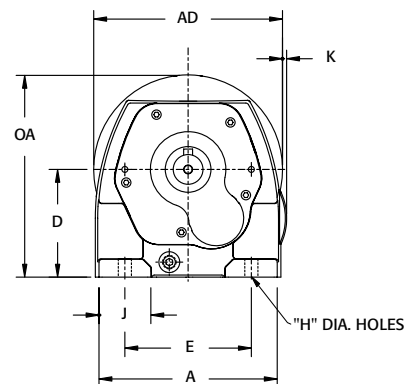
MOTOR COMPATIBILITY - NEMA

MODEL	NEMA			
	56C	143TC	182TC	213TC
SSHI4042E C	9.90	9.90	11.21	-
SSHI4062E C	11.10	11.10	12.12	12.12

SSHI4062E ALSO AVAILABLE WITH 1.250" OUTPUT SHAFT



DIMENSIONS ARE INCH



MODELS SSHI4042A & SSHI4062A

GEARCASE

MODEL	A	AD	B	BA	D	E	F	H	OA
SSHI4042A	5.72	6.61	6.30	2.95	3.54 ⁺⁰ _{-.02}	4.33	5.12	0.39	6.68
SSHI4062A	7.48	7.93	7.87	3.94	4.53 ⁺⁰ _{-.02}	5.32	6.50	0.53	8.48

OUTPUT SHAFT *

MODEL	U	X	KEY
SSHI4042A	1.000 ⁺⁰ _{-.001}	2.12	1/4 x 1/4 x 1-1/2
SSHI4062A	1.375 ⁺⁰ _{-.001}	2.83	5/16 x 5/16 x 1-3/4

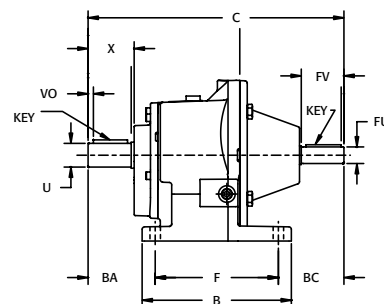
INPUT SHAFT *

MODEL	FU	FV	KEY
SSHI4042A	0.750 ⁺⁰ _{-.001}	1.57	3/16 x 3/16 x 1-1/16
SSHI4062A	0.875 ⁺⁰ _{-.001}	2.25	3/16 x 3/16 x 2

GEARCASE/INPUT

MODEL	BC	C
SSHI4042A	3.56	11.63
SSHI4062A	3.45	13.89

* SEE PAGES I-64 AND I-65 FOR ADDITIONAL SHAFT DIAMETERS AVAILABLE.



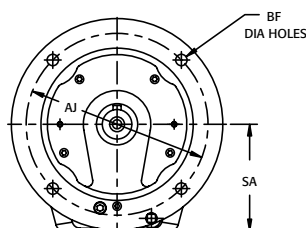
DIMENSIONS ARE INCH/ mm



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ HELICAL INLINE GEAR DRIVES MODELS SSHI4042 & SSHI4062

MODELS SSHI4042G & SSHI4062G



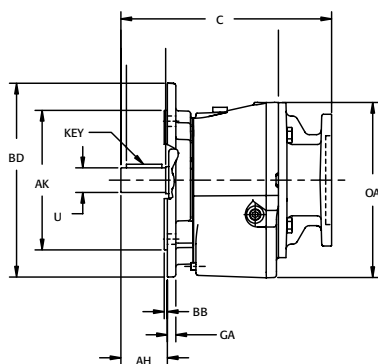
GEARCASE

MODEL	OA	SA
SSHI4042G	7.22	4.04
SSHI4062G	8.92	4.96

OUTPUT SHAFT *

MODEL	AH	AJ	AK	BB	BD	BF	U	KEY
SSHI4042G	1.97	6.50	5.118 $\begin{smallmatrix} +0 \\ -.002 \end{smallmatrix}$	0.14	7.90	0.47	1.000 $\begin{smallmatrix} +0 \\ -.001 \end{smallmatrix}$	1/4 x 1/4 x 1-1/2
SSHI4062G	2.76	8.46	7.087 $\begin{smallmatrix} -.0004 \\ -.0029 \end{smallmatrix}$	0.16	9.84	0.53	1.375 $\begin{smallmatrix} +0 \\ -.001 \end{smallmatrix}$	5/16 x 5/16 x 1-3/4

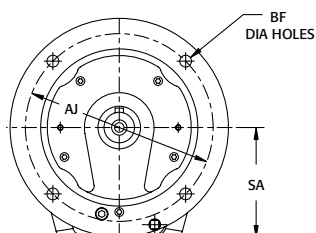
DIMENSIONS ARE INCH/ mm



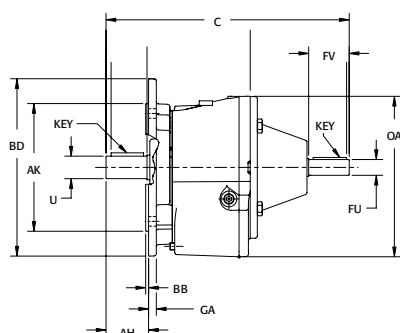
MOTOR COMPATIBILITY - NEMA

MODEL	NEMA			
	56C	143TC 145TC	182TC 184TC	213TC 215TC
SSHI4042G C	9.90	9.90	11.21	-
SSHI4062G C	11.10	11.10	12.12	12.12

* SEE PAGES I-64 AND I-65 FOR ADDITIONAL SHAFT DIAMETERS AVAILABLE.



DIMENSIONS ARE INCH/ mm



MODELS SSHI4042C & SSHI4062C

GEARCASE

MODEL	OA	SA
SSHI4042C	7.22	4.04
SSHI4062C	8.92	4.96

OUTPUT SHAFT *

MODEL	AH	AJ	AK	BB	BD	BF	U	KEY
SSHI4042C	1.97	6.50	5.118 $\begin{smallmatrix} +0 \\ -.002 \end{smallmatrix}$	0.14	7.90	0.47	1.000 $\begin{smallmatrix} +0 \\ -.001 \end{smallmatrix}$	1/4 x 1/4 x 1-1/2
SSHI4062C	2.76	8.46	7.087 $\begin{smallmatrix} -.0004 \\ -.0029 \end{smallmatrix}$	0.16	9.84	0.53	1.375 $\begin{smallmatrix} +0 \\ -.001 \end{smallmatrix}$	5/16 x 5/16 x 1-3/4

INPUT SHAFT *

MODEL	FU	FV	KEY
SSHI4042C	0.750 $\begin{smallmatrix} +0 \\ -.001 \end{smallmatrix}$	1.57	3/16 x 3/16 x 1-1/16
SSHI4062C	0.875 $\begin{smallmatrix} +0 \\ -.001 \end{smallmatrix}$	2.25	3/16 x 3/16 x 2

GEARCASE/INPUT

MODEL	C
HI4042C	11.63
HI4062C	13.89

* SEE PAGES I-64 AND I-65 FOR ADDITIONAL SHAFT DIAMETERS AVAILABLE.

DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL

HUB³™ HELICAL-BEVEL GEAR DRIVES MODELS SSHB2043 & SSHB2063



FEATURES

- Ratios from 6:1 to 140:1
- Power Ratings from 3/4 to 12 hp
- 316 Stainless Steel Housing and Shafts
- Surface Finish Machined to R_a of 70 μ in
- Patented
- Optional Seize Proof Quill & Sleeve Output Liners Available
- 93% Efficiency Ratings



NOTE: CLEANLINE PHARMACEUTICAL FEATURES
POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SSHBP2043 OR SSHBP2063

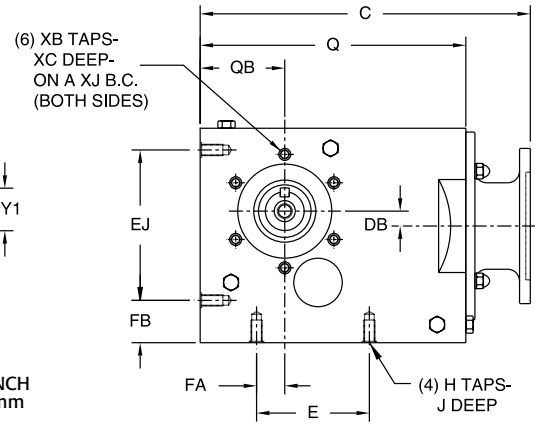
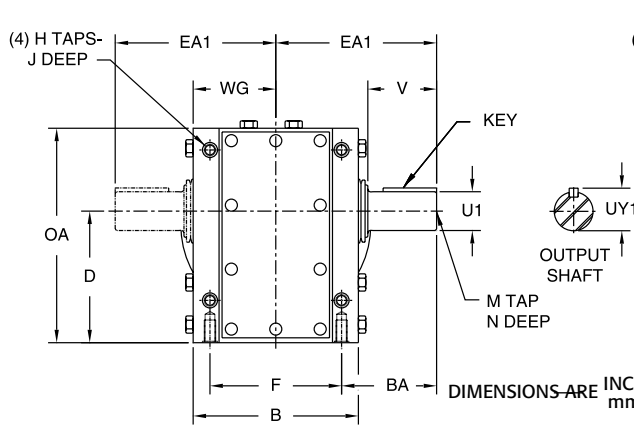
RATING TABLE

SSHB2043						
RATIO	OUTPUT SPEED	INPUT H.P.	OUTPUT TORQUE	OUTPUT OHL	INPUT OHL	OUTPUT THRUST
6.53	268	10	2210	650	140	1730
7.31	239	9.0	2230	675	140	1730
9.24	189	7.5	2350	700	140	1730
12.07	145	7.6	3100	800	140	1950
13.51	130	6.9	3150	770	140	1950
17.08	102	5.8	3350	830	140	1950
21.94	80	4.8	3540	930	140	1950
25.10	70	4.2	3540	1050	140	1950
30.37	58	3.4	3540	1150	140	1950
38.38	46	2.7	3540	1250	140	1950
49.31	35	2.1	3540	1250	140	1950
56.41	31	1.9	3540	1250	140	1950
73.76	24	1.4	3540	1250	140	1950
91.94	19	1.1	3540	1250	140	1950
110.88	16	0.9	3540	1250	140	1950
127.45	14	0.8	3540	1250	140	1950
SSHB2063						
6.22	281	12	2530	2050	200	2850
7.46	235	11	2880	2050	200	2850
9.44	185	10	3250	2050	200	2850
11.25	156	11	4060	2050	200	2850
13.48	130	12	5320	2050	200	2850
17.06	103	9.9	5720	2050	200	2850
19.80	88	9.2	6200	2050	200	2850
25.89	68	7.4	6500	2050	200	2850
30.51	57	6.8	7000	2050	200	2850
38.61	45	5.5	7150	2050	200	2850
44.81	39	4.8	7250	2050	200	2850
58.58	30	3.7	7260	2050	200	2850
69.99	25	3.1	7260	2050	200	2850
74.56	23	2.9	7260	2050	200	2850
85.21	21	2.5	7260	2050	200	2850
91.47	19	2.3	7260	2050	200	2850
106.51	16	2.0	7260	2050	200	2850
115.64	15	1.9	7260	2050	200	2850
126.17	14	1.7	7260	2050	200	2850
138.46	13	1.5	7260	2050	200	2850

ALL TORQUE VALUES LISTED IN INCH-POUNDS, ALL OVERHUNG LOAD AND THRUST LOAD VALUES LISTED IN POUNDS.
THE POINT OF APPLICATION OF OHL IS CONSIDERED TO BE APPLIED AT THE MIDPOINT OF SHAFT EXTENSION. INPUT OHL APPLIES ONLY TO SHAFT INPUT MODELS.
OHL AND THRUST RATINGS CANNOT BE APPLIED SIMULTANEOUSLY. CONSULT THE FACTORY FOR APPLICATIONS WITH COMBINED OHL AND THRUST LOAD.
AT SPEEDS ABOVE 1750 RPM, UNITS MAY BECOME THERMALLY LIMITED. FOR EXTENDED OPERATION, LIMIT HP TO 1750 RPM RATING.



CLEANLINE ULTRAPLUS™ & PHARMACEUTICAL HUB³™ HELICAL-BEVEL GEAR DRIVES MODELS SSHB2043 & SSHB2063

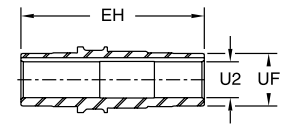
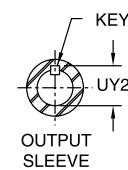
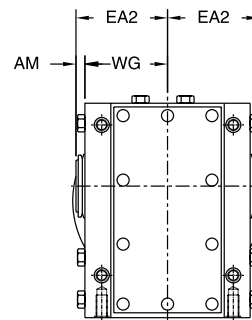


GEARCASE

MODEL	B	D	DB	E	EJ	F	FA
SSHB2043E*	5.71	4.41 ⁺⁰ _{-.02}	0.47	5.12	5.12	4.72	1.38
	145	112 ⁺⁰ _{-.02}	12.0	130	130	120	35
SSHB2063E*	692	5.51 ⁺⁰ _{-.02}	0.62	4.72	6.30	5.51	1.18
	1.76	140 ⁺⁰ _{-.02}	15.8	120	160	140	30

GEARCASE

MODEL	FB	H	J	OA	Q	QB	WG
SSHB2043E*	1.46	—	0.63	7.48	9.82	2.80	2.85
	37	M10 X 1.5	16	190	249	71	72.5
SSHB2063E*	1.77	—	0.95	8.98	11.13	3.54	3.46
	45	M12 X 1.75	24	228	283	90	87.9



GEARCASE

MODEL	XB	XC	XJ
SSHB2043E*	—	0.63	3.875
	M8 X 1.25	16.0	98.43
SSHB2063E*	—	0.66	4.750
	M10 X 1.5	16.8	120.65

OUTPUT SHAFT

MODEL	BA	EA1	U1	UV1	V	KEY	M	N
SSHB2043E*	2.95	5.31	1.250 ⁺⁰ _{-.001}	1.36	2.04	1/4 X 1/4 X 1-1/2	1/2 - 13UNC	1.20
	75	135	—	—	—	—	—	—
SSHB2063E*	3.98	6.73	1.625 ⁺⁰ _{-.001}	1.78	2.88	3/8 X 3/8 X 2-1/4	5/8 - 11UNC	1.38
	101	171	—	—	—	—	—	—

OUTPUT SLEEVE (SEIZE PROOF SLEEVE LINERS AVAILABLE)

MODEL	AM	EA2	EH	U2	UF	UY2	KEY
SSHB2043E*	0.48	3.34	6.67	1.375 ^{+0.0025} _{-.0}	1.97	1.52	(2) 5/16 X 5/16 X 1-13/16
	12	—	84.7	—	—	—	—
SSHB2063E*	0.38	3.84	7.68	1.500 ^{+0.0025} _{-.0}	2.20	1.67	(2) 3/8 X 3/8 X 2-1/4
	10	97.5	—	—	—	—	—

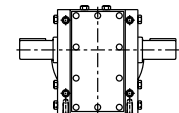
MOTOR COMPATIBILITY - NEMA

MODEL		NEMA		
		56C	143TC 145TC	182TC 184TC
SSHB2043E*	C	12.43 316	12.43 316	13.80 351
SSHB2063E*	C	13.83 351	13.83 351	14.85 377

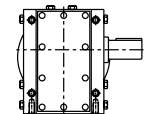
DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

SHAFT INPUT VERSIONS AND STAINLESS STEEL ACCESSORIES AVAILABLE, CONSULT FACTORY

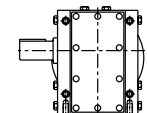
*OUTPUT STYLES



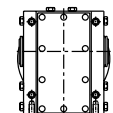
D: Double Ext.



L: Left Ext.



R: Right Ext.



S: Sleeve
(Hollow Bore)



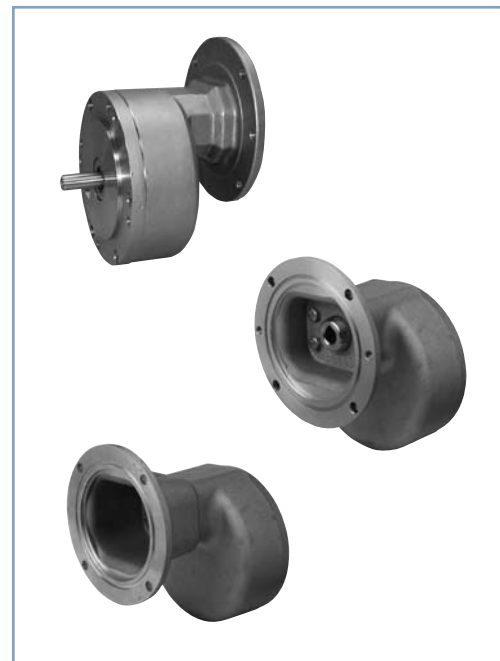
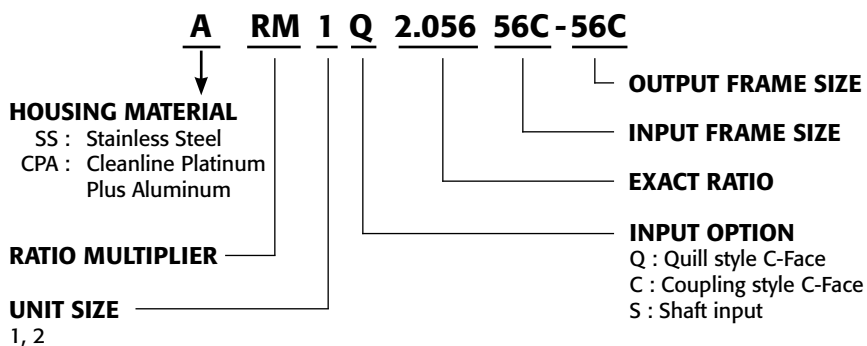
RATIO MULTIPLIERS

MODELS SSRM1, CPARM1, CPARM2
SINGLE REDUCTION

FEATURES:

- 316 Stainless Steel Housing and Shafts
- Smooth Cast Surface Finish
- Ratios up to 7.46 /1
- Factory Filled with USDA H1 Lubricant for Application Service Life of the Drive
- High Pressure Seals Configured for Severe High Pressure & Chemical Washdown Environments
- BISSC Certified and HACCP compatible
- Packaged with LEESON WASHGUARD All-Stainless Motors
- Ideal for use between a stainless steel motor and a C-face stainless steel gear drive to gain needed additional gear reduction.

MODEL NOMENCLATURE EXAMPLE



RM1 RATINGS @1750 RPM INPUT (48, 56 Stainless Steel or Aluminum Housing)

RATIO	OUTPUT RPM	INPUT HP	OUTPUT TORQUE	MAX LS OHL
2.056	851	4.69	347	222
2.929	598	3.64	384	265
4.000	438	2.91	419	300
5.111	342	2.33	428	300
7.462	235	1.56	419	300

RM2 RATINGS @1750 RPM INPUT (56, 140 Aluminum Housing)

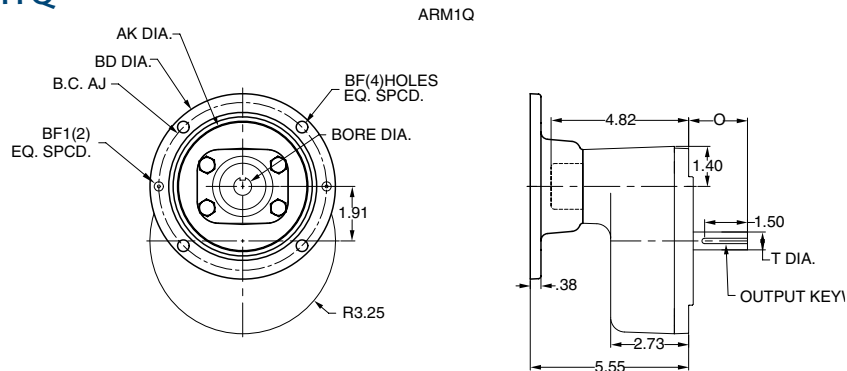
RATIO	OUTPUT RPM	INPUT HP	OUTPUT TORQUE	56C OUTPUT	140TC OUTPUT
				MAX LS OHL	MAX LS OHL
2.000	875	6.00	424	358	358
2.913	601	4.21	433	375	434
4.000	438	3.63	511	375	455
5.000	350	3.00	529	375	455
7.182	244	2.62	664	375	455



RATIO MULTIPLIERS

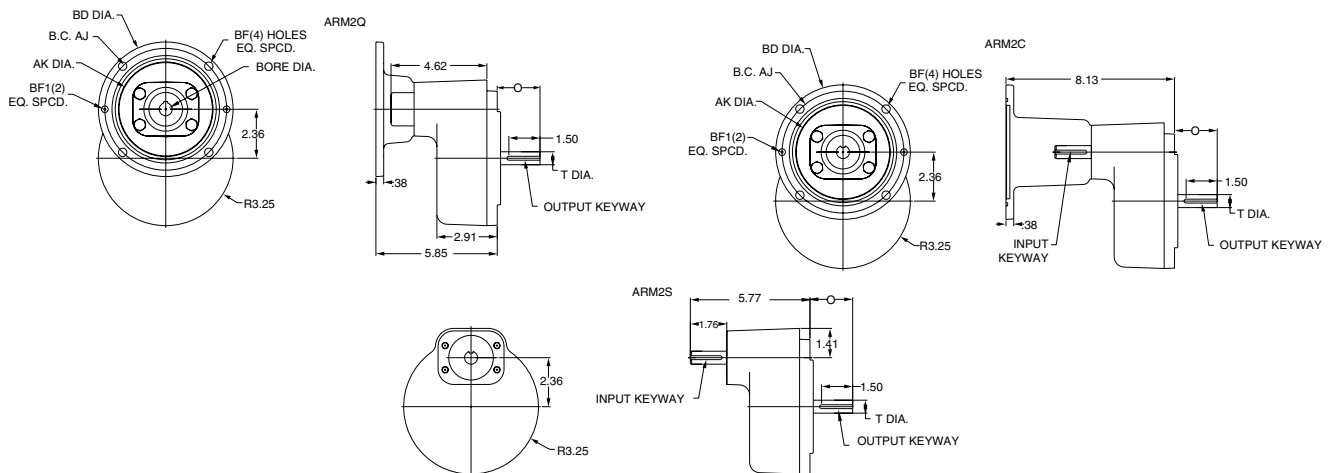
MODELS CPARM1Q & CPARM2Q - SINGLE REDUCTION ALUMINUM HOUSING

MODEL CPARM1Q



STYLE	FRAME COMBINATIONS	AJ	AK	BD	BF	BF1	O	T	INPUT BORE	INPUT KEYWAY	OUTPUT KEYWAY	WGT. (LBS.)
CPARM1	48CZ-56C	3.75	3.00	4.36	0.28	1/4-20 UNC	2.06	0.625	0.50	1/8 X 1/16	3/16 x 3/32	9.5
	56C-56C	5.88	4.50	6.64	0.41	3/8-16 UNC	2.06	0.625	0.63	3/16 X 3/32	3/16 x 3/32	9.5

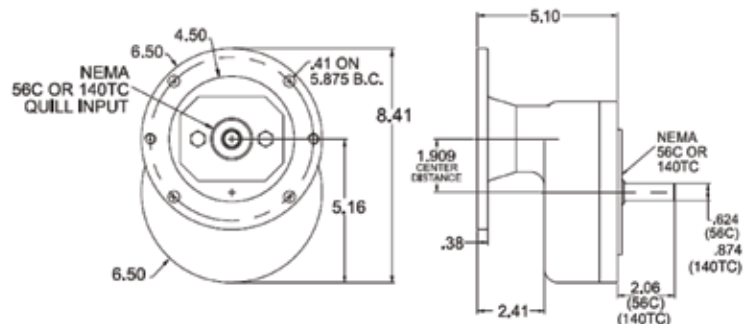
MODEL CPARM2Q



STYLE	FRAME COMBINATIONS	AJ	AK	BD	BF	BF1	O	T	INPUT BORE	INPUT KEYWAY	OUTPUT KEYWAY	WGT. (LBS.)
CPARM2Q	140TC-56C	5.88	4.50	6.64	0.41	3/8-16 UNC	2.06	0.625	0.63	3/16 X 3/32	3/16 x 3/32	11.5
CPARM2C	140TC-140TC	5.88	4.50	6.64	0.41	3/8-16 UNC	2.125	0.625	0.88	3/16 X 3/32	3/16 x 3/32	11.5

STAINLESS STEEL MODEL SSRM1

WEIGHT (LBS.) - 20

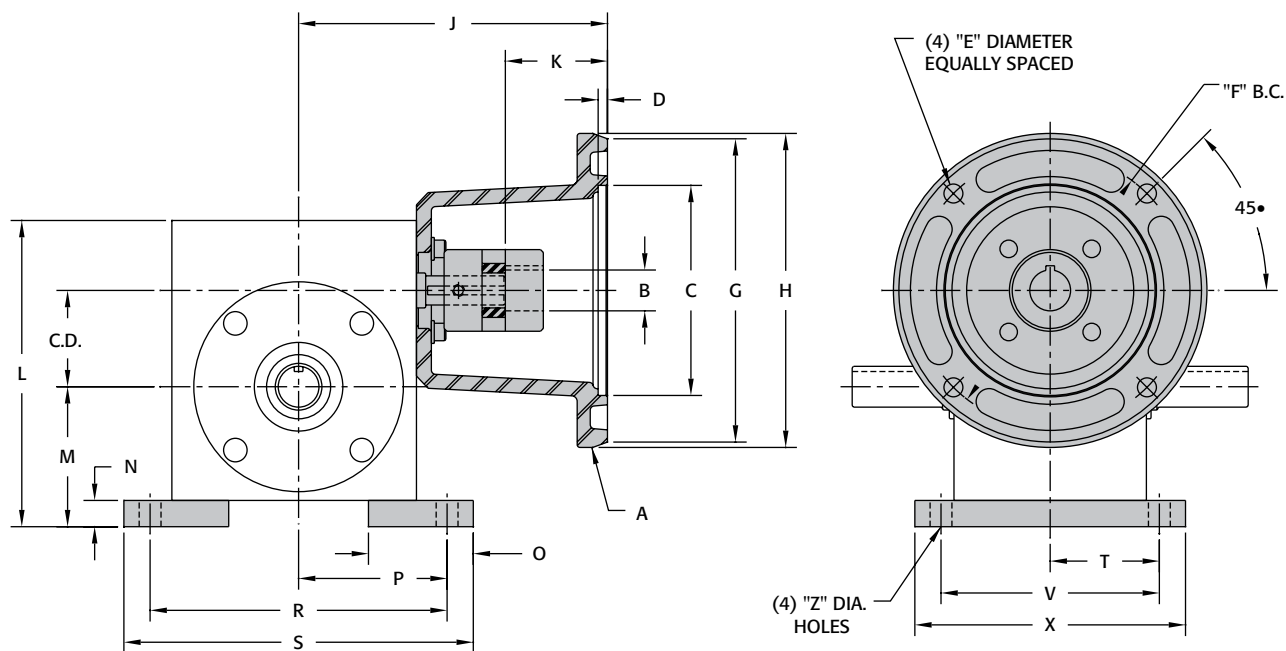


CALL: (605) 225-0360 • FAX: (605) 225-0567



HUB³™ ACCESSORIES

316 STAINLESS STEEL NEMA "C" FLANGE ADAPTOR & UNIVERSAL BASE KITS



316 STAINLESS STEEL NEMA "C" FLANGE ADAPTOR KITS

SERIES	A-NEMA FLANGE	FLANGE KIT NO.	FLANGE KIT SHIP WT.	B	C	D	E	F	G	H	J	K
SS180	56C*	0229-02913*	6.1 lbs.	.625/.626	4.501/4.503	.20	13/32	5.875	6.50	6.73	6.19	2.19
SS210	56C	0229-02914	6.3 lbs.	.625/.626	4.501/4.503	.20	13/32	5.875	6.50	6.73	6.63	2.19
	143TC, 145TC, 182C, 184C	0229-02915	6.5 lbs.	.875/.876								
SS260	56C	0229-02916	8.5 lbs.	.625/.626	4.501/4.503	.20	13/32	5.875	6.50	6.73	7.82	2.19
	143TC, 145TC, 182C, 184C	0229-02917	8.3 lbs.	.875/.876								
	182TC, 184TC, 213C, 215C	0229-02918	17.8 lbs.	1.125/1.126								
SS320	56C	0229-02919	10.3 lbs.	.625/.626	4.501/4.503	.20	13/32	5.875	6.50	6.73	8.94	2.19
	143TC, 145TC, 182C, 184C	0229-02920	10.1 lbs.	.875/.876								
	182TC, 184TC, 213C, 215C	0229-02921	18.5 lbs.	1.125/1.126								

* - SERIES SS180 FLANGE ADAPTOR KIT MUST BE FACTORY INSTALLED.

316 STAINLESS STEEL UNIVERSAL BASE KITS

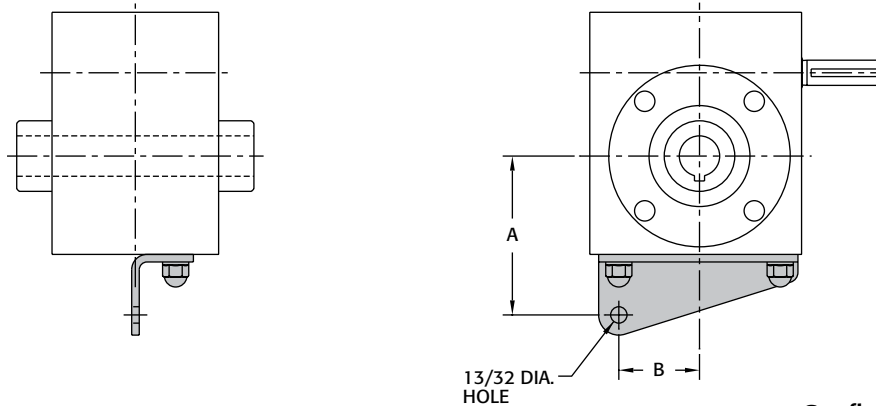
SERIES	BASE KIT NO.	BASE KIT SHIP WT.	C.D.	L	M	N	O	P	R	S	T	V	X	Z
SS180	0229-02922	6.5 lbs.	1.751	5.88	2.75	0.88	2.25	2.88	5.75	6.88	2.25	4.50	5.62	13/32 THRU
SS210	0229-02923	4.4 lbs.	2.064	6.56	3.00	0.56	2.25	3.19	6.38	7.50	2.34	4.69	5.81	7/16 UNC TAPPED
SS260	0229-02924	7.8 lbs.	2.626	8.19	3.69	0.75	2.75	4.00	8.00	9.25	2.63	5.25	6.50	17/32 THRU
SS320	0229-02925	14.3 lbs.	3.251	9.75	4.38	1.13	3.00	4.75	9.50	10.75	3.06	6.13	7.38	17/32 THRU

CONFIGURED TO BE USED WITH OR WITHOUT CLEARANCE SPACERS BETWEEN BASE KIT AND REDUCER HOUSING


HUB³™ ACCESSORIES

STAINLESS STEEL TORQUE ARM BRACKET KITS & CLEARANCE SPACERS

316 STAINLESS STEEL TORQUE ARM BRACKET KITS



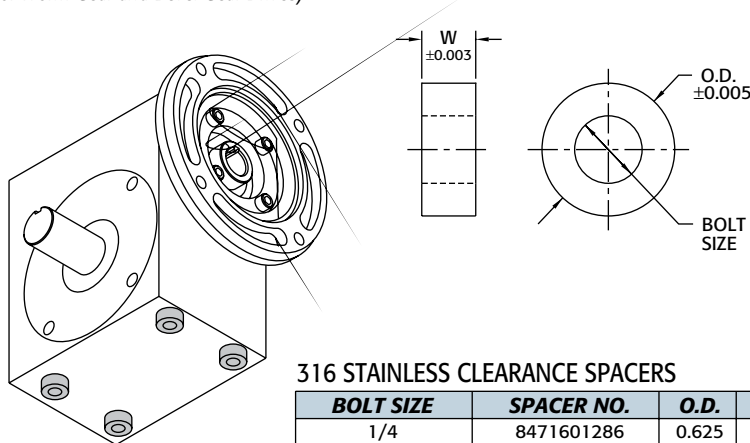
316 STAINLESS TORQUE ARM BRACKET KITS

SERIES	BASE KIT NO.	BASE KIT SHIP WT.	A	B
SS180	0229-02926	0.6 lbs.	3.25	1.56
SS210	0229-02927	1.4 lbs.	3.94	2.00
SS260	0229-02928	2.0 lbs.	4.94	2.44
SS320	0229-02929	2.5 lbs.	5.50	3.13

Configured to be
Used With or Without
Clearance Spacers
between Base Kit and
Reducer Housing

316 STAINLESS STEEL CLEARANCE SPACERS

(For Worm Gear and Bevel Gear Drives)



Clearance spacers are an excellent method of adding space between the gearbox and its mounting surface.

Clearance spacers minimize the surface contact area between the gearbox and its mounting surface to reduce potential bacterial growth areas.

Clearance spacers provide space for cleaning brushes to be used during sanitation processes. The spacers allow accessibility when cleaning by high-pressure washing or circulation of flowing chemical solutions, cleaning liquids and water rinses.

316 STAINLESS CLEARANCE SPACERS

BOLT SIZE	SPACER NO.	O.D.	W
1/4	8471601286	0.625	0.375
5/16	8471601287	0.688	0.375
3/8	8471601288	0.812	0.375
7/16	8471601289	0.922	0.375
1/2	8471601290	0.969	0.375
5/8	8471601291	1.312	0.375

ORDER (1) SPACER FOR EACH MOUNTING HOLE REQUIRED.
CONSULT FACTORY FOR ADDITIONAL SIZES AVAILABLE.

SUITABLE FOR:

CleanLine Pharmaceutical
CleanLine UltraPlus
CleanLine Plus
CleanLine Gear Drives



HUB³™ STAINLESS SHAFT PROTECTORS

SHAFT EXTENSION AND HOLLOW SLEEVE PROTECTOR KITS



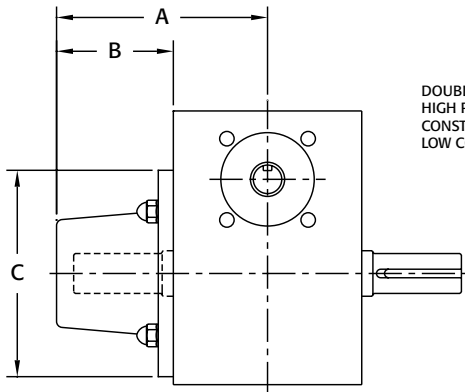
Caps are made from corrosion and bacteria resistant material.

WORM GEAR DRIVES

SOLID OUTPUT SHAFT

Models: SS_1 & SS_4

(example: Models SS181 & SS184)



DOUBLE LIP SEAL CONFIGURED TO EXCLUDE HIGH PRESSURE WASHDOWN FLUIDS. CONSTRUCTED OF BACTERIA RESISTANT, LOW COEFFICIENT OF FRICTION MATERIAL.

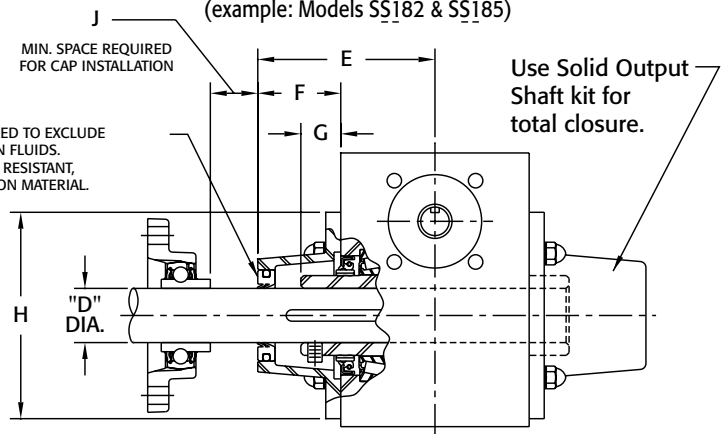
SOLID OUTPUT SHAFT KIT

SERIES	KIT PART NO.	A	B	C
SS180	0229-02930	3.91	2.16	3.59
SS210	0229-02931	4.62	2.56	4.53
SS260	0229-02932	5.17	2.90	5.60
SS320	0229-02933	5.83	3.13	6.29

HOLLOW OUTPUT SLEEVE

Models: SS_2 & SS_5

(example: Models SS182 & SS185)



HOLLOW OUTPUT SLEEVE KIT

SERIES	KIT PART NO.	D	E	F	G	H	J
SS180	0229-02934	1.000	3.25	1.50	0.66	3.59	0.81
SS210	0229-02935	1.000	3.88	1.82	0.88	4.53	1.03
	0229-02936	1.188					
	0229-02949	1.250					
SS260	0229-02937	1.000	4.12	1.85	0.86	5.60	1.01
	0229-02938	1.188					
	0229-02948	1.250					
	0229-02939	1.438					
SS320	0229-02940	1.438	5.33	2.63	1.08	6.29	1.23
	0229-02941	1.938					
	0229-02942	2.188					

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
 DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM



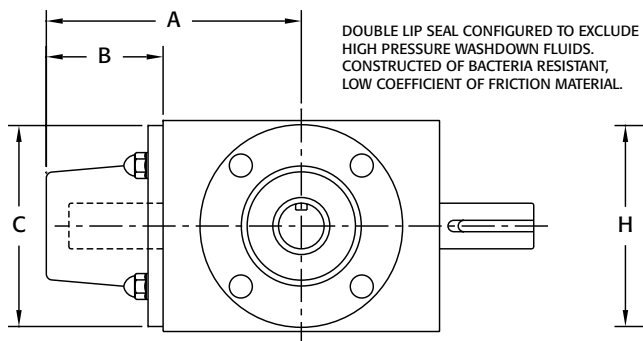
HUB³™ STAINLESS SHAFT PROTECTORS

SHAFT EXTENSION AND HOLLOW SLEEVE PROTECTOR KITS

BEVEL GEAR DRIVES

SOLID OUTPUT SHAFT

Models: SSM3, SS165 & SS66

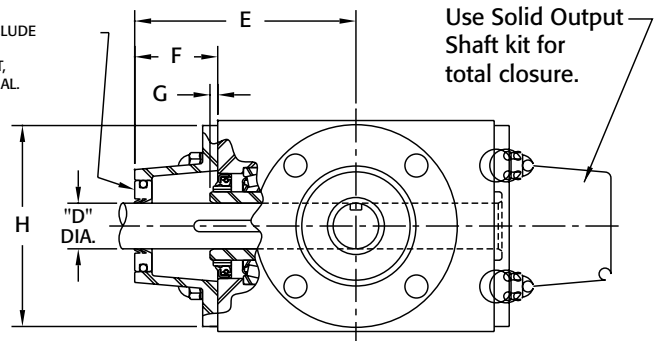


SOLID OUTPUT SHAFT KIT

MODEL	KIT PART NO.	A	B	C
SSM3	0229-02943	3.61	1.72	2.85
SS165	0229-02944	5.59	2.56	4.41
SS66	0229-02945	6.52	2.90	5.42

HOLLOW SLEEVE OUTPUT

Models: SS175 & SS65



HOLLOW OUTPUT SLEEVE KIT

MODEL	KIT PART NO.	D	E	F	G	H
SS175	0229-02946	1.000	3.85	1.82	0.17	4.41
SS65	0229-02947	1.250	5.47	1.85	0.32	5.42

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
 DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

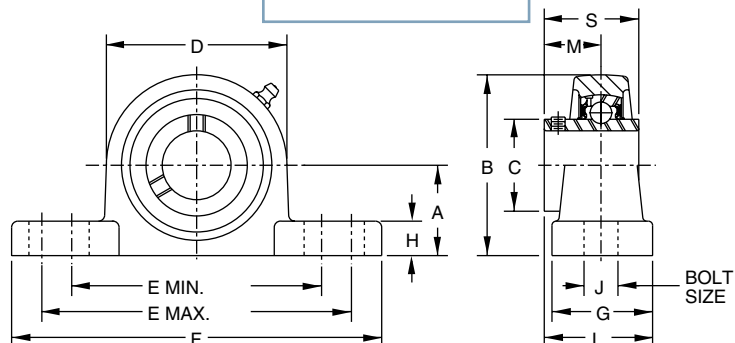
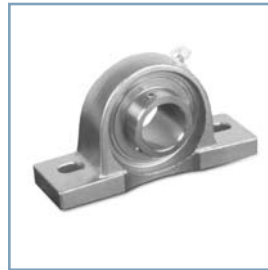


CLEANLINE ULTRAPLUS™ AND PHARMACEUTICAL

STAINLESS STEEL MOUNTED BEARINGS - PILLOW BLOCK PB251STW

FEATURES:

- 440 Stainless Steel Rings and Balls
- 302 Stainless Steel Flingers and Retainers
- Setscrew Lock - Wide Inner Ring
- Factory Filled USDA H1 Lubricant Meets FDA Regulation 178.3570 Requirement for Incidental Contact with Food
- 304 Stainless Steel Setscrews
- Anti Rotation Pin
- 304 Stainless Steel Housing
- No Ribs Undercuts or Protrusions - Easier to Clean
- Stainless Steel Grease Fittings
- Grooved for Composite Dust Caps on One Side, See Page O-37



SHAFT SIZE	A	B	C	D	E MIN.	E MAX.	F	G	H	J	L	M	S	WT. LBS.
1/2, 5/8	1-5/16	2-9/16	1.142	2-1/2	3-1/2	3-31/32	5	1-1/2	9/16	3/8	1-15/32	0.720	1.220	1.4
3/4	1-5/16	2-9/16	1.142	2-1/2	3-1/2	3-31/32	5	1-1/2	9/16	3/8	1-15/32	0.720	1.220	1.4
7/8, 1	1-7/16	2-3/4	1.339	2-5/8	3-29/32	4-3/8	5-1/2	1-1/2	19/32	3/8	1-17/32	0.780	1.343	1.7
1-1/8, 1-3/16, 1-1/4S	1-11/16	3-9/32	1.587	3-5/32	4-5/8	4-15/16	6-1/2	1-7/8	5/8	1/2	1-53/64	0.874	1.500	2.9
1-1/4, 1-3/8, 1-7/16	1-7/8	3-23/32	1.890	3-21/32	4-27/32	5-5/32	6-9/16	1-7/8	11/16	1/2	1-61/64	1.000	1.689	3.5
1-1/2	1-15/16	3-15/16	2.087	4	5-1/4	5-9/16	7-1/4	2-1/8	23/32	1/2	2-1/4	1.189	1.937	4.4
1-11/16, 1-3/4	2-1/8	4-1/4	2.252	4-1/4	5-9/16	5-15/16	7-1/2	2-1/8	25/32	1/2	2-1/4	1.189	1.937	5.0
1-15/16	2-1/4	4-15/32	2.433	4-15/32	6-1/16	6-15/32	8-1/8	2-3/8	27/32	5/8	2-15/32	1.283	2.031	5.9

PART NUMBERS ARE SPECIFIED BY "PB251STW" AND BORE SIZE. EXAMPLE: PB251STW X 1.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34.

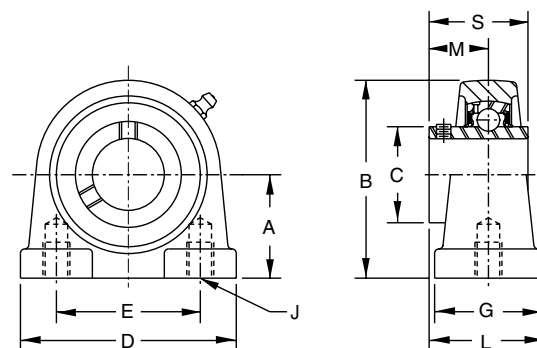
FOR LOAD RATINGS, SEE PAGE O-34.

TAPPED BASE PILLOW BLOCK TPB250STW

FEATURES: (Same as Above)

**FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION R**

NOTE: CLEANLINE PHARMACEUTICAL FEATURES
POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SPTW: EXAMPLE PB251SPTWX1



SHAFT SIZE	A	B	C	D	E	G	J - TAPPED HOLES	L	M	S	WT. LBS.
1/2, 5/8	1-5/16	2-9/16	1.142	2-7/8	2	1-1/2	3/8-16NC X 1/2	1-15/32	0.720	1.220	0.8
3/4	1-5/16	2-9/16	1.142	2-7/8	2	1-1/2	3/8-16NC X 1/2	1-15/32	0.720	1.220	0.8
7/8, 1	1-7/16	2-13/16	1.339	3	2	1-1/2	3/8-16NC X 1/2	1-17/32	0.780	1.343	0.9
1-1/8, 1-3/16, 1-1/4S	1-11/16	3-7/16	1.587	4	3	1-1/2	7/16-16NC X 5/8	1-5/8	0.874	1.500	1.9
1-1/4, 1-3/8, 1-7/16	1-7/8	3-3/4	1.890	4-1/4	3-1/4	1-7/8	1/2-13NC X 3/4	1-61/64	1.000	1.689	2.0
1-1/2	1-15/16	3-15/16	2.087	4-5/8	3-1/2	1-7/8	1/2-13NC X 3/4	2-9/64	1.189	1.937	2.8
1-11/16, 1-3/4	2-1/8	4-1/4	2.252	5	3-3/4	2	1/2-13NC X 3/4	2-13/64	1.189	1.937	3.3
1-15/16	2-1/4	4-5/8	2.433	5-1/2	4	2	5/8-11NC X 1	2-9/32	1.283	2.031	4.2

PART NUMBERS ARE SPECIFIED BY "TPB250STW" AND BORE SIZE. EXAMPLE: TPB250STW X 3/4.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34.

FOR LOAD RATINGS, SEE PAGE O-34.

†† DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. DOWNLOAD AVAILABLE CAD MODELS AT: WWW.HUBCITYINC.COM

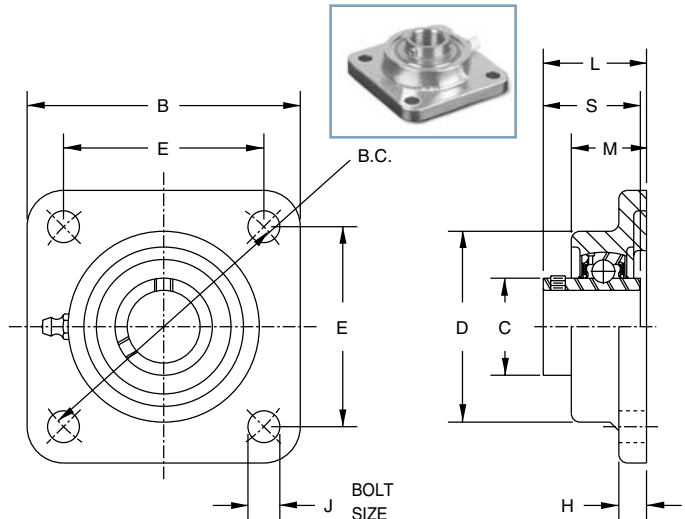


CLEANLINE ULTRAPLUS™ AND PHARMACEUTICAL STAINLESS STEEL MOUNTED BEARINGS - 4 BOLT FLANGE BLOCKS FB250STW

FEATURES:

- 440 Stainless Steel Rings and Balls
- 302 Stainless Steel Fingers and Retainers
- Setscrew Lock - Wide Inner Ring
- Factory Filled USDA H1 Lubricant Meets FDA Regulation 178.3570 Requirement for Incidental Contact with Food
- 304 Stainless Steel Setscrews
- Anti Rotation Pin
- 304 Stainless Steel Housing
- No Ribs - Undercuts or Protrusions Easier to Clean
- Stainless Steel Grease Fittings
- Grooved for Composite Dust Caps on One Side,

See Page O-37



SHAFT SIZE	B	B.C.	C	D	E	H	J	L	M	S	WT. LBS.
1/2, 5/8	3-3/8	3-17/32	1.142	2-3/8	2-1/2	7/16	3/8	1-5/16	1-3/64	1.220	1.3
3/4	3-3/8	3-17/32	1.142	2-3/8	2-1/2	7/16	3/8	1-5/16	1-3/64	1.220	1.3
7/8, 1	3-3/4	3-57/64	1.339	2-13/16	2-3/4	1/2	3/8	1-13/32	1-5/64	1.343	1.8
1-1/8, 1-3/16, 1-1/4S	4-1/4	4-19/32	1.587	3-3/16	3-1/4	1/2	3/8	1-37/64	1-7/32	1.500	2.4
1-1/4, 1-3/8, 1-7/16	4-5/8	5-1/8	1.890	3-5/8	3-5/8	19/32	1/2	1-3/4	1-9/32	1.689	3.5
1-1/2	5-1/8	5-21/32	2.087	4-3/32	4	19/32	1/2	2-1/64	1-3/8	1.937	4.2
1-11/16, 1-3/4	5-3/8	5-53/64	2.252	4-1/4	4-1/8	5/8	1/2	2-1/16	1-7/16	1.937	5.3
1-15/16	5-5/8	6-3/16	2.433	4-1/2	4-3/8	5/8	1/2	2-5/32	1-29/64	2.031	5.7

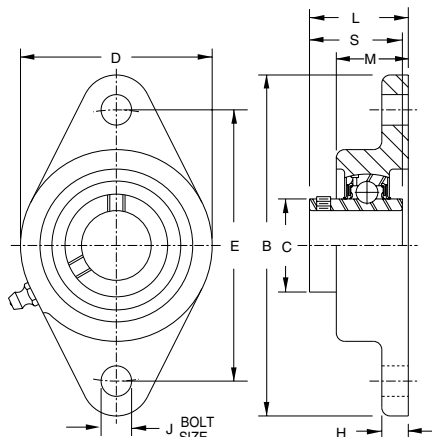
PART NUMBERS ARE SPECIFIED BY "FB250STW" AND BORE SIZE. EXAMPLE: FB250STW X 3/4.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34.

FOR LOAD RATINGS, SEE PAGE O-34.

FEATURES: (Same as Above)

**FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION R**

NOTE: CLEANLINE PHARMACEUTICAL FEATURES
POLISHED EXTERIOR SURFACES.
TO ORDER SPECIFY SPTW: EXAMPLE FB250SPTW



2 BOLT FLANGE BLOCKS FB260STW

SHAFT SIZE	B	C	D	E	H	J	L	M	S	WT. LBS.
1/2S, 5/8S	3-7/8	1.142	2-9/32	3	25/64	3/8	1-5/16	1-3/64	1.220	0.9
1/2, 5/8	4-7/16	1.142	2-3/8	3-17/32	7/16	3/8	1-5/16	1-3/64	1.220	1.1
3/4	4-7/16	1.142	2-3/8	3-17/32	7/16	3/8	1-5/16	1-3/64	1.220	1.0
7/8, 1	5-1/8	1.339	2-11/16	3-57/64	33/64	3/8	1-13/32	1-5/64	1.343	1.4
1-1/8, 1-3/16, 1-1/4S	5-13/16	1.587	3-5/32	4-19/32	33/64	3/8	1-37/64	1-7/32	1.500	1.9
1-1/4, 1-3/8, 1-7/16	6-11/32	1.890	3-17/32	5-1/8	35/64	1/2	1-3/4	1-9/32	1.689	2.6
1-1/2	6-7/8	2.087	3-15/16	5-21/32	35/64	1/2	2-1/64	1-3/8	1.937	3.5
1-11/16, 1-3/4	7-13/32	2.252	4-1/4	5-53/64	19/32	1/2	2-3/64	1-7/16	1.937	4.2
1-15/16	7-3/4	2.433	4-17/32	6-3/16	19/32	1/2	2-5/32	1-15/32	2.031	5.1

PART NUMBERS ARE SPECIFIED BY "FB260STW" AND BORE SIZE. EXAMPLE: FB260STW X 3/4.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34.

FOR LOAD RATINGS, SEE PAGE O-34.

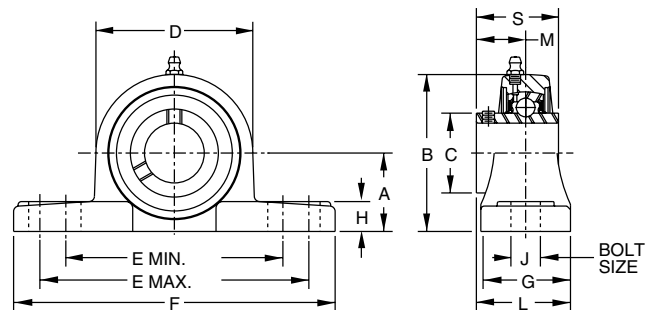


CLEANLINE PLUS™ THERMOPLASTIC

COMPOSITE MOUNTED BEARINGS - PILLOW BLOCK PB251CTW

FEATURES:

- 440 Stainless Steel Rings and Balls
- 302 Stainless Steel Flingers and Retainers
- Setscrew Lock - Wide Inner Ring
- Factory Filled USDA H1 Lubricant Meets FDA Regulation 178.3570 Requirement for Incidental Contact with Food
- 304 Stainless Steel Setscrews
- Anti Rotation Pin
- Ultradur Glass Reinforced PBT Thermoplastic Housing
- Tensile Strength 16700 psi at Room Temperature
- Stainless Steel Bushings in All Bolt Holes
- Stainless Steel Insert for Zerk Threads
- Stainless Steel Zerks
- Moisture Resistant
- Corrosion Resistant
- Grooved for Composite Dust Caps on One Side, See Page O-37
- Smooth Surface with No Ribs for Easy Cleaning



SHAFT SIZE	A	B	C	D	E MIN.	E MAX.	F	G	H	J	L	M	S	WT. LBS.
1/2, 5/8	1-5/16	2-19/32	1.142	2-17/32	3-5/8	3-7/8	5	1-1/2	9/16	3/8	1-15/32	0.720	1.220	0.7
3/4	1-5/16	2-19/32	1.142	2-17/32	3-5/8	3-7/8	5	1-1/2	9/16	3/8	1-15/32	0.720	1.220	0.7
7/8, 1	1-7/16	2-25/32	1.339	2-23/32	4-1/32	4-1/4	5-17/32	1-1/2	9/16	3/8	1-17/32	0.780	1.343	0.7
1-1/8, 1-3/16, 1-1/4S	1-11/16	3-5/16	1.587	3-1/4	4-17/32	4-27/32	6-13/32	1-13/16	11/16	1/2	1-25/32	0.874	1.500	1.2
1-1/4, 1-3/8, 1-7/16	1-7/8	3-23/32	1.890	3-11/16	4-27/32	5-5/32	6-5/8	1-7/8	23/32	1/2	1-61/64	1.000	1.689	1.6
1-1/2	1-15/16	3-31/32	2.087	4-3/32	5-1/4	5-9/16	7-1/4	2-1/8	25/32	1/2	2-1/4	1.189	1.937	2.3

PART NUMBERS ARE SPECIFIED BY "PB251CTW" AND BORE SIZE. EXAMPLE: PB251CTW X 3/4.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34.

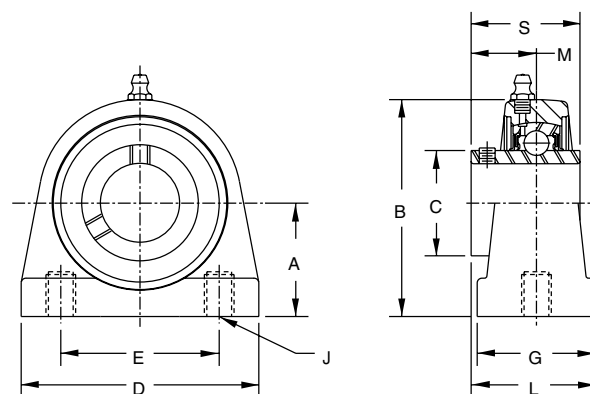
FOR LOAD RATINGS, SEE PAGE O-34 & O-35.

TAPPED BASE PILLOW BLOCK TPB250CTW

FEATURES:

(Same as Above)

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R



SHAFT SIZE	A	B	C	D	E	G	J - TAPPED HOLES	L	M	S	WT. LBS.
1/2, 5/8	1-5/16	2-19/32	1.142	2-7/8	2	1-11/32	3/8-16NC X 1/2	1-13/32	0.720	1.220	0.6
3/4	1-5/16	2-19/32	1.142	2-7/8	2	1-11/32	3/8-16NC X 1/2	1-13/32	0.720	1.220	0.6
7/8, 1	1-7/16	2-29/32	1.339	3	2	1-9/16	3/8-16NC X 1/2	1-35/64	0.780	1.343	0.7
1-1/8, 1-3/16, 1-1/4S	1-11/16	3-5/16	1.587	3-31/32	3	1-21/32	7/16-14NC X 1/2	1-23/32	0.874	1.500	1.1
1-1/4, 1-3/8, 1-7/16	1-7/8	3-3/4	1.890	4-11/32	3-1/4	1-7/8	1/2-13NC X 5/8	1-15/16	1.000	1.689	1.6
1-1/2	1-15/16	3-31/32	2.087	4-23/32	3-1/2	1-29/32	1/2-13NC X 5/8	2-1/8	1.189	1.937	2.2

PART NUMBERS ARE SPECIFIED BY "TPB250CTW" AND BORE SIZE. EXAMPLE: TPB250CTW X 1.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34.

FOR LOAD RATINGS, SEE PAGE O-34 & O-35.

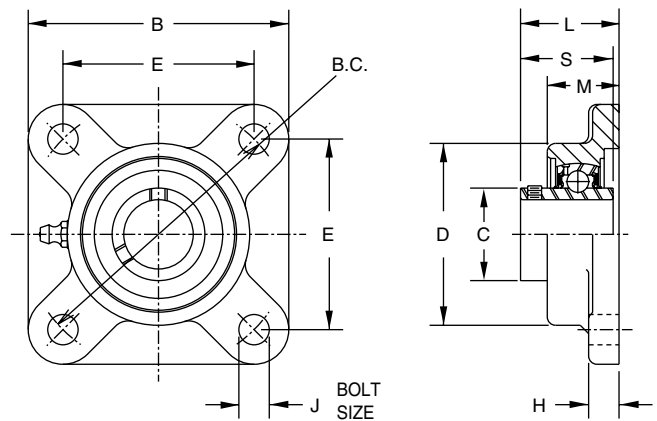
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CLEANLINE PLUS™ THERMOPLASTIC COMPOSITE MOUNTED BEARINGS - 4 BOLT FLANGE BLOCK FB250CTW

FEATURES:

- 440 Stainless Steel Rings and Balls
- 302 Stainless Steel Fingers and Retainers
- Setscrew Lock - Wide Inner Ring
- Factory Filled USDA H1 Lubricant Meets FDA Regulation 178.3570 Requirement for Incidental Contact with Food
- 304 Stainless Steel Setscrews
- Anti Rotation Pin
- Ultradur Glass Reinforced PBT Thermoplastic Housing
- Tensile Strength 16700 psi at Room Temperature
- Stainless Steel Bushings in All Bolt Holes
- Stainless Steel Insert for Zerk Threads
- Stainless Steel Zerks
- Moisture Resistant
- Corrosion Resistant
- Grooved for Composite Dust Caps on One Side, See Page O-37
- Smooth Surface with No Ribs for Easy Cleaning



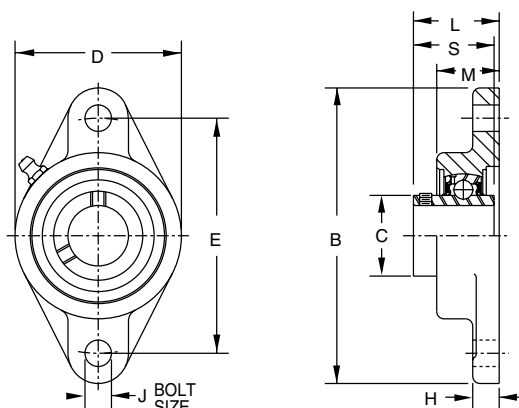
SHAFT SIZE	B	B.C.	C	D	E	H	J	L	M	S	WT. LBS.
1/2, 5/8	3-3/8	3-17/32	1.142	2-17/32	2-1/2	17/32	3/8	1-23/64	1-3/32	1.220	0.7
3/4	3-3/8	3-17/32	1.142	2-17/32	2-1/2	17/32	3/8	1-23/64	1-3/32	1.220	0.7
7/8, 1	3-3/4	3-57/64	1.339	2-3/4	2-3/4	9/16	3/8	1-29/64	1-1/8	1.343	0.8
1-1/8, 1-3/16, 1-1/4S	4-7/32	4-19/32	1.587	3-1/8	3-1/4	9/16	3/8	1-5/8	1-1/4	1.500	1.1
1-1/4, 1-3/8, 1-7/16	4-5/8	5-1/8	1.890	3-17/32	3-5/8	5/8	7/16	1-27/32	1-23/64	1.689	1.6
1-1/2	5-1/8	5-21/32	2.087	3-15/16	4	11/16	1/2	2-3/32	1-7/16	1.937	2.3

PART NUMBERS ARE SPECIFIED BY "FB250CTW" AND BORE SIZE. EXAMPLE: FB250CTW X 3/4.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34

FOR LOAD RATINGS, SEE PAGE O-34 & O-35.

0

FEATURES: (Same as Above)



2 BOLT FLANGE BLOCKS FB260CTW



FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION R

SHAFT SIZE	B	C	D	E	H	J	L	M	S	WT. LBS.
1/2, 5/8	4-7/16	1.142	2-9/16	3-17/32	17/32	3/8	1-5/16	1-3/64	1.220	0.6
3/4	4-7/16	1.142	2-9/16	3-17/32	17/32	3/8	1-5/16	1-3/64	1.220	0.6
7/8, 1	5-5/32	1.339	2-3/4	3-57/64	9/16	3/8	1-27/64	1-7/64	1.343	0.7
1-1/8, 1-3/16, 1-1/4S	5-13/16	1.587	3-5/32	4-19/32	9/16	3/8	1-37/64	1-13/64	1.500	1.0
1-1/4, 1-3/8, 1-7/16	6-15/32	1.890	3-17/32	5-1/8	5/8	7/16	1-3/4	1-17/64	1.689	1.4
1-1/2	6-15/16	2.087	3-15/16	5-21/32	11/16	1/2	2-1/32	1-3/8	1.937	2.0

PART NUMBERS ARE SPECIFIED BY "FB260CTW" AND BORE SIZE. EXAMPLE: FB260CTW X 3/4. FOR LOAD RATINGS, SEE PAGE O-34 & O-35.
FOR REPLACEMENT INSERTS USE B250TW BEARING INSERTS, O-34.

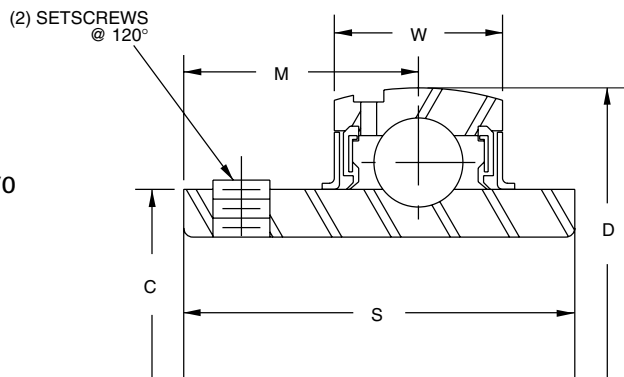


CLEANLINE PLUS™ & ULTRAPLUS BEARING INSERTS

B250TW STAINLESS STEEL BEARINGS

FEATURES:

- 440 Stainless Steel Rings and Balls
- 302 Stainless Steel Retainers
- Setscrew Lock - Wide Inner Ring
- Factory Filled USDA HI Lubricant Meets FDA Regulation 178.3570 Requirement for Incidental Contact with Food
- Silicone Seals with 302 Stainless Steel Fingers
- Lube Groove for Relubrication. (Housing Groove Not Required)
- 304 Stainless Steel Setscrews
- Anti Rotation Pin



SHAFT SIZE	C	D	M	S	W	SETSCREW	WT. LBS.
1/2, 5/8	1.142	1.8504	0.720	1.220	0.669	1/4-28 UNF	0.4
3/4	1.142	1.8504	0.720	1.220	0.669	1/4-28 UNF	0.4
7/8, 1	1.339	2.0472	0.780	1.343	0.669	1/4-28 UNF	0.5
1-1/8, 1-3/16, 1-1/4S	1.587	2.4409	0.874	1.500	0.748	1/4-28 UNF	0.7
1-1/4, 1-3/8, 1-7/16	1.890	2.8346	1.000	1.689	0.787	5/16-24 UNF	1.0
1-1/2	2.087	3.1496	1.189	1.937	0.827	5/16-24 UNF	1.5
1-11/16, 1-3/4	2.252	3.3465	1.189	1.937	0.866	5/16-24 UNF	1.6
1-15/16	2.433	3.5433	1.283	2.031	0.906	3/8-24 UNF	1.8

CLEANLINE™ STAINLESS STEEL BEARING RATINGS - SERIES B250TW

BEARING RADIAL LOAD CAPACITY (POUNDS) FOR 500 HOURS L-10 LIFE (2500 HOURS AVERAGE LIFE) AND STEADY LOAD CONDITIONS										
SHAFT SIZE (INCHES) 100, 200 SERIES	BASIC DYNAMIC RATING, C* (POUNDS)	BASIC STATIC RATING, Co** (POUNDS)	BEARING SPEED (RPM)							
			100	500	1,000	1,500	2,000	2,500	3,000	3,500
1/2 to 5/8	2200	1390	1,530	890	710	620	560	520	490	470
3/4	2200	1390	1,530	890	710	620	560	520	490	470
7/8 to 1	2430	1570	1,680	990	780	680	620	580	540	520
1-1/8 to 1-1/4S	3350	2250	2,320	1,360	1080	940	860	790	750	710
1-1/4 to 1-7/16	4430	3060	3,070	1,800	1430	1250	1130	1050	990	
1-1/2	5640	3990	3,910	2,290	1810	1590	1440	1340	1260	
1-11/16 to 1-3/4	5640	3990	3,910	2,290	1810	1590	1440	1340		
1-7/8 to 1-15/16	6060	4450	4,200	2,460	1950	1700	1550	1440		

* RADIAL LOAD FOR AN L-10 RATING LIFE OF 1,000,000 REVOLUTIONS.

** RADIAL LOAD RATING FOR STATIONARY OR VERY LOW SPEED OPERATION.

FOR ULTIMATE LIFE, SNUG FIT OR LIGHT PRESS FIT ON SHAFT SHOULD BE USED.

RECOMMENDED OPERATING TEMPERATURE RANGE: 0 TO +225 DEG F. FOR APPLICATIONS NOT COVERED IN THE RATING TABLES, CONSULT THE FACTORY.

RATINGS ARE BASED ON ISO 281.

MAXIMUM RECOMMENDED SPEEDS:

1/2 to 1-1/4S 3,500 RPM
1-1/4 to 1-1/2 3,000 RPM
1-5/8 to 1-15/16 2,500 RPM

TO MODIFY THE ABOVE RATINGS FOR OTHER L-10 LIFE REQUIREMENTS OR FOR SHOCK LOADS MULTIPLY THE ABOVE RATINGS BY THE FACTOR FROM THIS CHART														
MODIFICATION FACTORS FOR L-10 SERVICE LIFE AND LOAD CONDITIONS:														
LOAD CONDITIONS	L-10 LIFE (HOURS)													
	500	700	1,000	1,500	2,000	3,000	4,000	5,000	7,000	10,000	15,000	20,000	30,000	50,000
Steady Load	1.00	.894	.794	.694	.630	.550	.500	.464	.415	.368	.322	.292	.255	.215
Light Shock	.90	.804	.715	.624	.567	.495	.450	.418	.373	.331	.290	.263	.230	.194
Moderate Shock	.70	.626	.556	.485	.441	.385	.350	.325	.290	.258	.225	.205	.179	.151

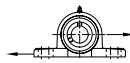
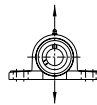

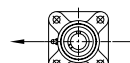
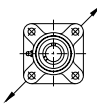

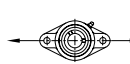


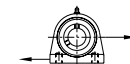
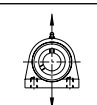

†† DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

DOWNLOAD AVAILABLE CAD MODELS AT: WWW.HUBCITYINC.COM



LOAD RATINGS

CLEANLINE PLUS™ LOAD RATINGS

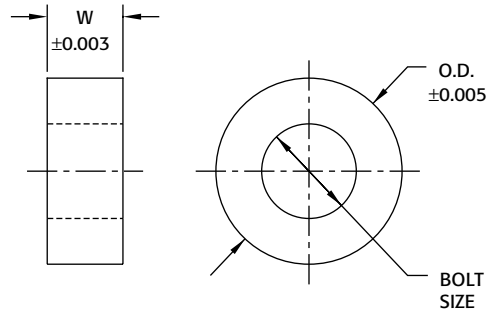
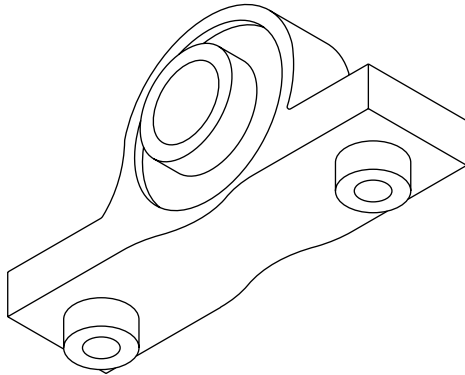
BREAKING POINT TESTS OF COMPOSITE HOUSINGS AT ROOM TEMPERATURE (75 F.)						
	MODE OF LOAD	BREAKING STRENGTH (POUNDS)				
		1/2 TO 3/4	7/8 TO 1	1-1/8 TO 1-1/4S	1-1/4 TO 1-7/16	1-1/2
PB251CTW		2000	3100	2800	2900	2900
		1700	2200	2400	2400	2500
		1100	1800	1300	1700	1900
FB250CTW		2900	2900	3800	4200	4300
		2300	2700	4000	4200	4300
		730	750	760	790	850
FB260CTW		2500	2600	3700	3800	3900
		2500	3100	3000	3100	3200
		1900	2500	3200	3300	3400
TPB250CTW		1800	1900	2300	2700	2700
		1500	1600	1500	1800	2000
		670	640	1100	1800	2200

RECOMMENDED OPERATING TEMPERATURE OF COMPOSITE HOUSINGS IS 20 TO 230 DEG F.
HOUSING STRENGTH VARIES WITH OPERATING TEMPERATURE, AND THIS MUST BE CONSIDERED IN THE SELECTION AND APPLICATION OF COMPOSITE BEARING UNITS.



CLEANLINE ULTRAPLUS™ MOUNTED BEARING

ACCESSORIES - CLEARANCE SPACERS



Clearance spacers are an excellent method of adding space between the mounted bearing and its mounting surface.

Clearance spacers minimize the surface contact area between the mounted bearing and its mounting surface to reduce potential bacterial growth areas.

Clearance spacers provide space for cleaning brushes to be used during sanitation processes. The spacers allow accessibility when cleaning by high-pressure washing or circulation of flowing chemical solutions, cleaning liquids and water rinses.

316 STAINLESS STEEL CLEARANCE SPACERS

BOLT SIZE	SPACER NO.	O.D.	W
1/4	8471601286	0.625	0.375
5/16	8471601287	0.688	0.375
3/8	8471601288	0.812	0.375
7/16	8471601289	0.922	0.375
1/2	8471601290	0.969	0.375
5/8	8471601291	1.312	0.375

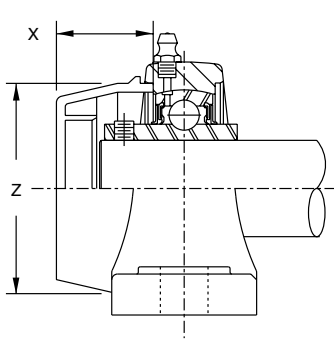
ORDER (1) SPACER FOR EACH MOUNTING HOLE REQUIRED.
CONSULT FACTORY FOR ADDITIONAL SIZES AVAILABLE.

SUITABLE FOR:

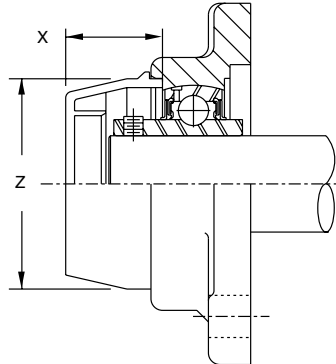
CleanLine Pharmaceutical
CleanLine UltraPlus
CleanLine Plus
CleanLine Gear Drives



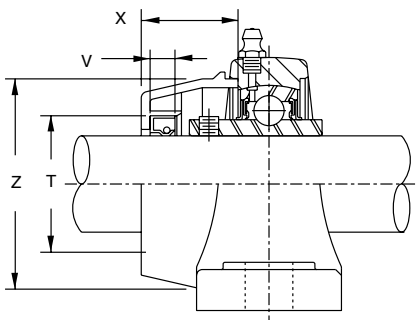
CLEANLINE ULTRAPLUS™ MOUNTED BEARING ACCESSORIES - PROTECTIVE CAPS



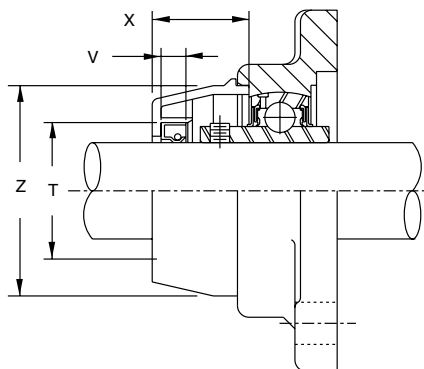
CLOSED PILLOW BLOCK UNITS



CLOSED FLANGE UNITS



OPEN PILLOW BLOCK UNITS



OPEN FLANGE UNITS



0

PROTECTIVE CAPS AND SEALS

SHAFT SIZE	T	V	X	Z	CLOSED CAP		OPEN CAP		SEAL FOR OPEN CAP	
					DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER
1/2	1.260	0.28	29/32	1-31/32	CPCCx3/4	1540101016	CPOCx3/4	1540101007	CPSEALx1/2	1745011004
5/8									CPSEALx5/8	1745011005
3/4									CPSEALx3/4	1745011006
7/8	1.457	0.28	1	2-5/32	CPCCx1	1540101017	CPOCx1	1540101008	CPSEALx7/8	1745011019
1									CPSEALx1	1745011007
1-1/8									CPSEALx1-1/8	1745011008
1-3/16	1.654	0.28	1-3/16	2-1/2	CPCCx1-3/16	1540101018	CPOCx1-3/16	1540101009	CPSEALx1-3/16	1745011009
1-1/4S									CPSEALx1-1/4S	1745011010
1-1/4									CPSEALx1-1/4	1745011011
1-3/8	1.850	0.28	1-1/4	2-15/16	CPCCx1-7/16	1540101019	CPOCx1-7/16	1540101010	CPSEALx1-3/8	1745011012
1-7/16									CPSEALx1-7/16	1745011013
1-1/2									CPSEALx1-1/2	1745011014
1-1/2	2.047	0.28	1-15/32	3-5/16	CPCCx1-1/2	1540101020	CPOCx1-1/2	1540101011	CPSEALx1-1/2	1745011014

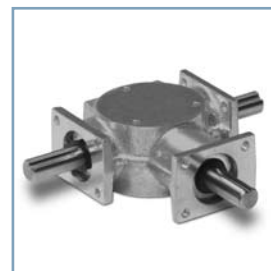
PROTECTIVE CAPS AND SEALS ARE SUITABLE FOR BOTH STAINLESS STEEL AND THERMOPLASTIC COMPOSITE BEARINGS
CAPS AND SEALS ARE SOLD SEPARATELY. ORDER BY DESCRIPTION OR PART NUMBERS SHOWN



CLEANLINE PLUS™ MODELS CPAD3, CPAD4, CPAD5

FEATURES

- Cast aluminum housing with Platinum Plus finish designed to resist corrosion and provide rigid gear and bearing support.
- Stainless steel or chrome plated shaft provide resistance to corrosion.
- Precision ball bearings to accommodate higher operating speeds.
- Spiral bevel gearing to assure low noise level at higher operating speeds.
- High Pressure Seals with V-Rings
- Factory filled with USDA H1 lubricant for application service life.
- Universal mounting (5 surfaces) to assure maximum design flexibility.
- BISSC Certification Optional



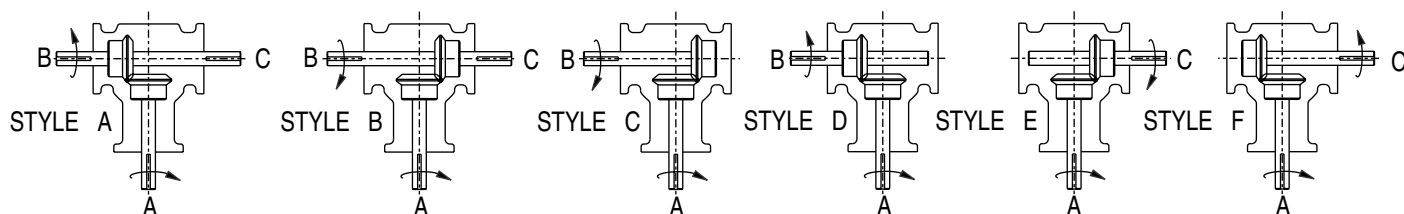
RATING TABLE

INPUT RPM†		MODEL CPAD4 RATIO		MODEL CPAD5 RATIO		MODEL CPAD3 RATIO	
		1:1	2:1Δ	1:1	2:1Δ	1:1	2:1Δ
3600	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	1.810 31.700	.525 18.400	4.310 75.500	2.120 74.200	10.250 179.560	3.820 133.800
2400	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	1.240 32.500	.356 18.700	2.950 77.400	1.450 76.100	7.100 186.400	2.620 137.600
1750	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	.913 32.900	.262 18.900	2.190 78.700	1.070 77.200	5.270 189.700	1.960 141.000
1150	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	.609 33.400	.176 19.300	1.470 80.300	.720 78.600	3.550 194.800	1.320 144.400
850	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	.457 33.900	.131 19.500	1.100 81.300	.540 79.400	2.670 198.000	.990 146.800
690	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	.374 34.200	.108 19.700	.900 81.900	.440 80.000	2.190 200.100	.810 148.200
400	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	.220 34.700	.064 20.000	.530 83.300	.260 81.200	1.300 204.800	.480 151.200
200	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	.112 35.100	.033 20.300	.270 84.700	.130 82.400	.670 209.400	.250 154.400
100	INPUT HORSEPOWER OUTPUT TORQUE IN. LBS.	.057 35.600	.016 20.500	.140 85.800	.070 83.200	.340 212.900	.130 156.600

†FOR HIGHER INPUT SPEEDS CONSULT FACTORY

Δ2:1 RATIO HAS PLATED PINION SHAFTS

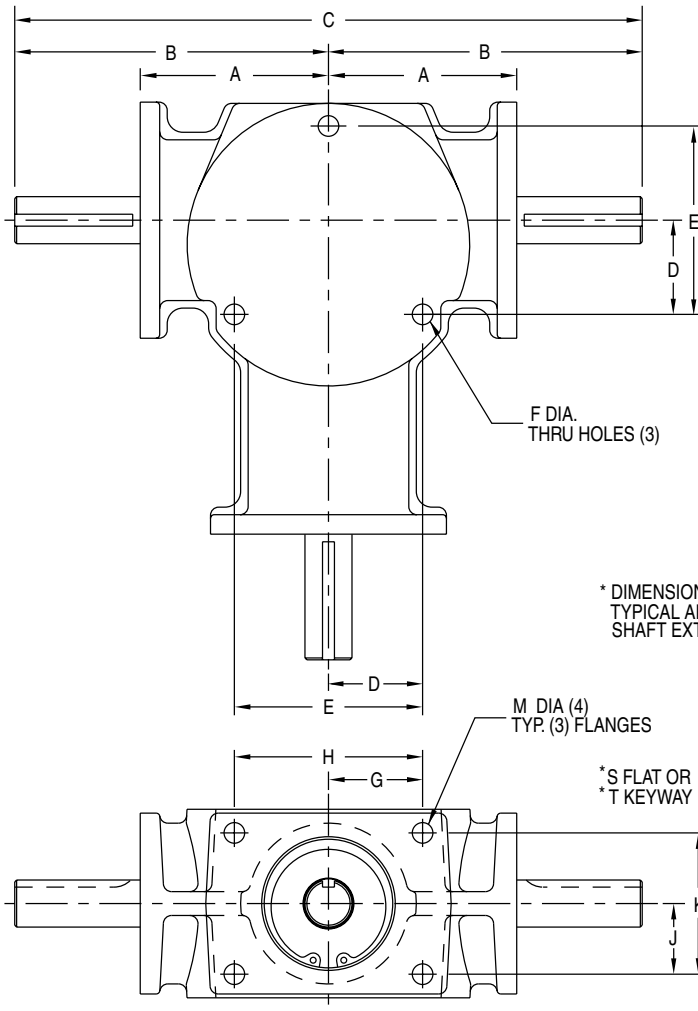
STANDARD STYLES AVAILABLE



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS
INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION



CLEANLINE PLUS™ MODELS CPAD3, CPAD4, CPAD5



ALLOWABLE SHAFT LOADS ALL RATIOS AND SHAFTS

MODEL NO.	OVERHUNG LOAD**	THRUST LOAD
AD 3	100 lbs.	200 lbs.
AD 4	25 lbs.	50 lbs.
AD 5	50 lbs.	100 lbs.

** ASSUMES LOAD AT MIDPOINT OF
SHAFT EXTENSION

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION R

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

SHIPPING WEIGHTS

MODEL CPAD3 8-1/4 lbs.
MODEL CPAD4 1/2 lb.
MODEL CPAD5 2 lbs.

INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION

MODEL NO.	A	B	C	D	E	F	G	H	J	K	M
CPAD3	3	5	10	1.500	3.000	21/64	1.500	3.000	1.125	2.250	21/64
CPAD4	1-3/8	1-63/64	3-61/64	.656	1.312	17/64	.594	1.188	.438	.875	11/64
CPAD5	2-1/8	3-5/8	7-1/4	.937	1.875	17/64	.937	1.875	.687	1.375	17/64

MODEL NO.	N	P	Q	R	S	T	V
CPAD3	5	2	3.005 7	.750/.749	—	3/16 X 3/32 1-9/16 EFF. LGTH.	3.005/3.000
CPAD4	2-5/32	19/32	2-3/4	.3745/.3740	1/32 DEEP	.60 Eff. Flat	1.255/1.250
CPAD5	3-1/4	1-1/2	2.005 4-3/4	.6245/.6240	—	3/16 X 3/32 1-7/32 EFF. LGTH.	2.005/2.000



CLEANLINE™ HIGH EFFICIENCY GEAR DRIVES

FEATURES:

- FDA/USDA Approved White Acrylic Paint
- FDA/USDA Approved Stainless Steel Paint Optional
- 303 Stainless Steel Output Shafts
- Stainless Steel Hardware and Nameplate
- BISSC Certification Optional
- Available in All Standard Models of Helical Bevel, Helical Worm, Helical Parallel & Helical InLine
- Spring Loaded Double Lip Seals with V-Rings

REFER TO SECTIONS I,J,K AND L FOR RATINGS AND DIMENSIONS



CLEANLINE™ WORM & BEVEL GEAR DRIVES

FEATURES:

- FDA/USDA Approved White Acrylic Paint
- FDA/USDA Approved Stainless Steel Paint Optional
- 303 Stainless Steel Output Shafts
- Stainless Steel Hardware and Nameplate
- BISSC Certification Optional
- Available in All Standard Models
- Spring Loaded Double Lip Seals with V-Rings
- Components in Stock for Worm Gear Series 130 thru 320 (Model # Ending in 1, 2, 3, 4, 5, 6)
- Components In Stock for Bevel Gear Models M3 thru 66
- **Most Popular Models Available in 5 Days or Less!**

REFER TO SECTIONS B AND D FOR RATINGS AND DIMENSIONS

MODIFIED AND CUSTOM DESIGNS

If you have looked through this catalog and do not see exactly what you need, Hub City has the capability and engineering expertise to design and produce a special drive. Capabilities range from flange and shaft modifications, to custom housing dimensions. Consult the factory or your Hub City representative with your specifications.