

700 Series Right Angle Single Reduction Worm Speed Reducer

Example: SBKCHQC738B-40KEZT-B7-

SBKC **H** **QC** **7** **38** **B** - **40** **K** **E** **Z** **T** - **B7** -

Input Shaft Style

Blank – Solid Projecting Input Shaft
F – Quill Style Motor Flange
RF – Coupling Style Motor Flange
QC – *Quick Connect* Motor Flange (close coupled)

Output Shaft Style

Blank – Solid Output Shaft
H – *BostMount* Hollow Output (setscrews both sides, bore size selectable)
S – Hollow Output (setscrews one side, bore size fixed)

Center Distance (inches)

10 – 1.00
 13 – 1.33
 15 – 1.54
 18 – 1.75
 21 – 2.06
 24 – 2.38
 26 – 2.62
 30 – 3.00
 32 – 3.25
 38 – 3.75
 52 – 5.13
 60 – 6.00

Exact Gear Ratio

Ratio to 1

5	25
7	30
7.5	40
10	50
12	60
15	80
20	100

Or Consult Factory for Availability

Vent

Blank – Standard Vent
P – Pressure Vent (5 psi)
Z – Posivent (sealed)

Endcap or Fan (732-760 only)

E – Endcap (standard)
F – Fan

Lubrication

Blank – No lubrication
K – Klubersynth UH1 6-460
S – Mobil SHC 634
X – Mobil 600W

Oil Seal

Blank – Standard Seal
T – Two Standard Input Seals

See Stainless Steel below for high pressure washdown output seals and double input seals.

Reducer Material/Paint

Blank – Cast Iron, Std. Gray paint
BKC – Cast Iron, White *BostKleen* paint
SBKC – Cast Iron, Stainless *BostKleen* paint

See below for Stainless Steel material/ no paint

Base/Mounting Attachment*

Blank – No Base
A – Horizontal base – Top Mount
B – Horizontal base – Bottom Mount
BRB – Riser Block – Top Mount
C – Vertical High base – Right Mount
D – Vertical Low base – Right Mount
E – Vertical High base – Left Mount
F – Vertical Low base – Left Mount
R – *BostMount* Bracket – Right Mount
L – *BostMount* Bracket – Left Mount
M – Conveyor Flange Adptr – Right Mount
N – Conveyor Flange Adptr – Left Mount
V – Hollow Output Flange – Right Mount
W – Hollow Output Flange – Left Mount
X – Vertical Base – Rear Mount
Y – Vertical Base – Front Mount

*Projection of Base/Flange/Bracket assumes one is always looking into the input shaft in the #1 mounting position

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY
B4	42CZ	.500"	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8
B11	210TC/250UC	1.375	5/16 x 5/32
B13	250TC	1.625	3/8 x 3/16

Blank Solid Input Shaft (No Flange)

SS700 Stainless Steel Single Reduction Worm Speed Reducer

Example: SSHF7180B-40KC-B5-HS1-P20-FUTSS-3

SS **H** **F** **7** **180** **B** - **40** **K**

Style

Blank – Solid Output Shaft
H – *BostMount* Hollow Output

Motor Flange

F – Quill Style Motor Flange
QC – Quick Connect Motor Flange (Close Coupled)

Center Distance (Inches)

13 – 1.33
 15 – 1.54
 180 – 1.75
 210 – 2.06
 240 – 2.38
 26 – 2.62
 32 – 3.25

Base

Blank – No Base
B – Horizontal Base
V – Output Flange - Right Mount
W – Output Flange - Left Mount

Reduction Ratio To 1

5
 10
 15
 20
 25
 30
 40
 50
 60
 80
 100

Lubrication

K – Klubersynth UH1-6-460 (PAG)
 H1 Food-Grade
D – Mobil Cibus SHC 460 (PAO)
 H1 Food-Grade

SS – Stainless Steel Material

Clutch/Brake

Motor

HS 1 - P24 -

CMBA140TR-6 -

HUTF-IDB - 3

BostMount Output Bore Code

For H Series Only Specified in 1/16" increments.

Example: 1 1/4" = P20

5/8 - P10	1-1/2 - P24
3/4 - P12	1-5/8 - P26
7/8 - P14	1-11/16 - P27
15/16 - P15	1-3/4 - P28
1 - P16	1-7/8 - P30
1-1/16 - P17	1-15/16 - P31
1-1/8 - P18	2 - P32
1-3/16 - P19	2-1/8 - P34
1-1/4 - P20	2-3/16 - P35
1-5/16 - P21	2-1/4 - P36
1-3/8 - P22	2-7/16 - P39
1-7/16 - P23	3-7/16 - P55

See catalog P-1485-BG for availability by center distance. Consult Factory for Metric Bores

Mounting Positions

Blank - No Lubrication Supplied

For Factory Prelubrication Indicate Mounting Position

- 1 - Standard Mounting (Worm over)
- 2-6 - Refer to Mounting Positions in Catalog P-1485-BG

Output Shaft

(When facing Input and worm on top)

- G - Carbon Steel Output Projection - Left
- H - Carbon Steel Double Output Projection
- J - Carbon Steel Output Projection - Right
- GS - Stainless Output Projection - Left
- HS - Stainless Double Output Projection
- JS - Stainless Output Projection - Right

Common C-Face Brakes Installed

115/230 VAC 60hz	Ft-Lb	Bore Code
CMBA56R-3	3	B5
CMBA56R-6	6	B5
CMBA140TR-6	6	B7

208-230/460 VAC 60hz	Ft-Lb	Bore Code
CMBA56U-3	3	B5
CMBA56U-6	6	B5
CMBA140TU-6	6	B7

Other sizes available. See catalog P-1485-BG.

Motor Conduit box Orientation (When looking at fan end of motor and gearbox is in mounting position #1)

- 0 - 12 O'clock
- 3 - 3 O'clock (standard for G & H shaft assemblies)
- 6 - 6 O'clock
- 9 - 9 O'clock (standard for J shaft assemblies)

Common C-Face Motors Installed

HP Rating	Bore Code	AC Voltage	
		115/208-230-1-60	208-230/460-3-60
1/4 HP	B5	DRTFB	DUTFB
1/3 HP	B5	ERTFB	EUTFB
1/2 HP	B5	FRTFB	FUTFB
	B5		FUT-SS
	B5		FUTF-IDB
3/4 HP	B5	GRTFB	GUTFB
	B5		GUT-SS
	B5		GUTF-IDB
1 HP	B5	HRTF-5/8B	HUTF5/8B
	B5		HUT5/8-SS
	B5		HUTF5/8-IDB
	B7		HUTFB
	B7		HUT-SS
	B7		HUTF-IDB
1.5 HP	B7		JUTFB
	B7		JUTF-SS
	B7		JUTF-IDB
2 HP	B5		KUTF5/8B
	B7		KUTFB
	B7		KUTF-SS
	B7		KUTF-IDB
3 HP	B9		LUTFB
	B9		LUTF-SS
	B9		LUTF-IDB
5 HP	B9		MUTFB

Other motors available, please see catalog P-1485-BG.

- T - Totally enclosed non-ventilated
- TF - Totally enclosed fan cooled
- SS - Stainless
- IDB - Inverter Duty (10:1 turn down constant torque)
- B5 - 56C
- B7 - 140TC
- B9 - 180TC

C - B5 - HS 1 - P20 - FUTSS - 3

Seal Options

- Blank - Standard Seals (Gen 1 only)
- C - High pressure washdown output seals and double input seals (Standard for Gen 2)
- CT - C option plus Double Input Seals



NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY SIZES
B4	42CZ	.500	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8

Output Shaft

303 Stainless Steel (when facing input)

- GS - Stainless Output Projection - Left
- HS - Stainless Double Output Projection
- JS - Stainless Output Projection - Right

Mounting Positions

- 1 - Standard Mounting (Worm Over)
- 2-6 - Refer to Mounting Positions on page 7*

BostMount Output Bore Code

- Blank - Solid Output Shaft
- Pxx see Table 1*
- APxx see Table 3*
- TPxx see Table 4*
- Catalog P-1998-BG (Page 7)



Specified in 1/16" increments

Ex: xx = 20 for 1-1/4" (APxx, TPxx for sizes 7180, 7210, 7240 only) PMxx and APMxx are metric and specified in mm

Motor C-Face Motor

Blank - No Motor See Table 2* on Page 7

Motor Conduit Box Orientation

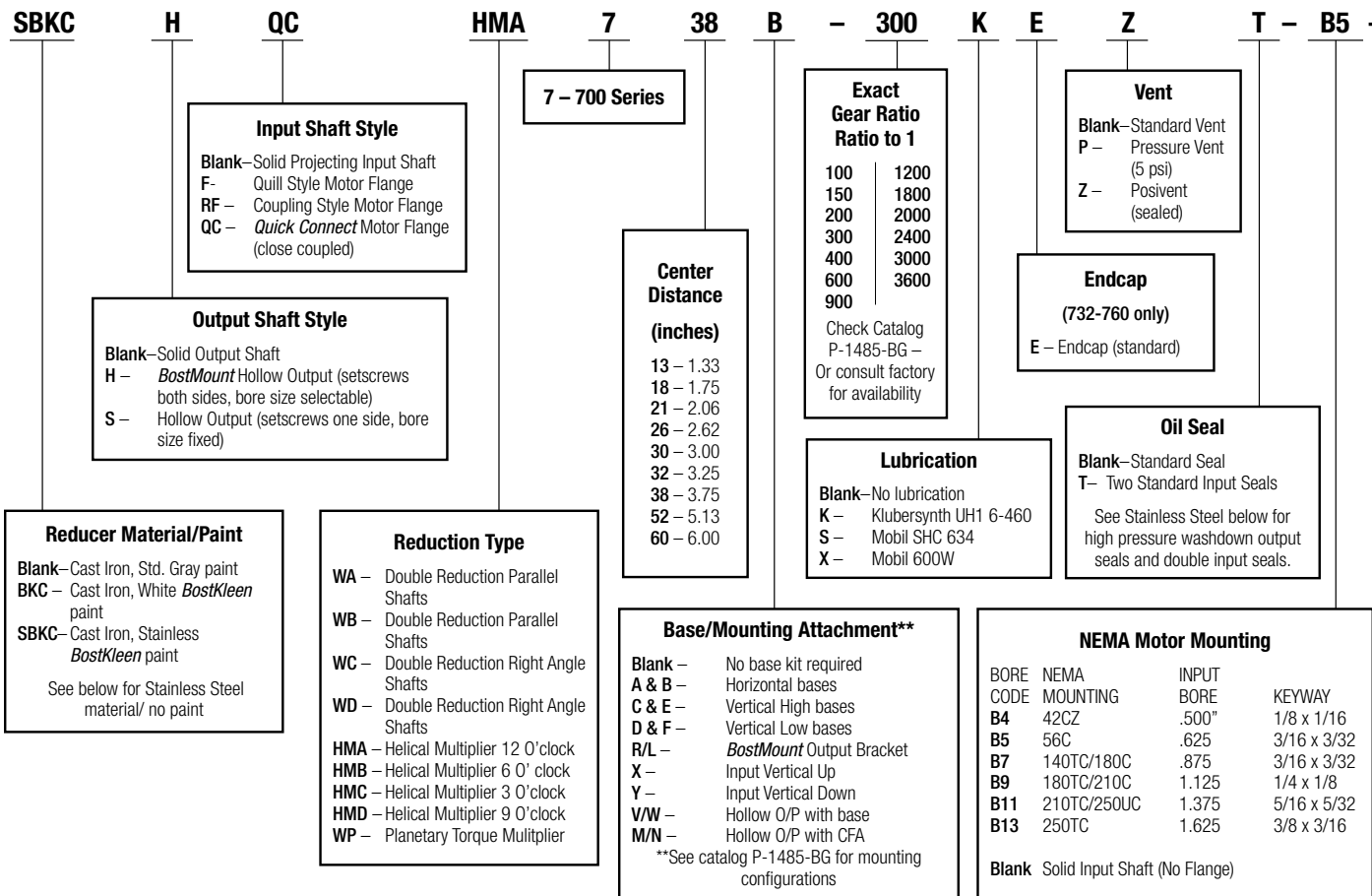
(When looking at fan end of motor and gearbox is in mounting position #1)

- 0 - 12 O'clock
- 3 - 3 O'clock (standard for G & H shaft assemblies)
- 6 - 6 O'clock
- 9 - 9 O'clock (standard for J shaft assemblies)

* Refer to P-1998-BG Stainless Steel Power Transmission Products Catalog Visit www.bostongear.com

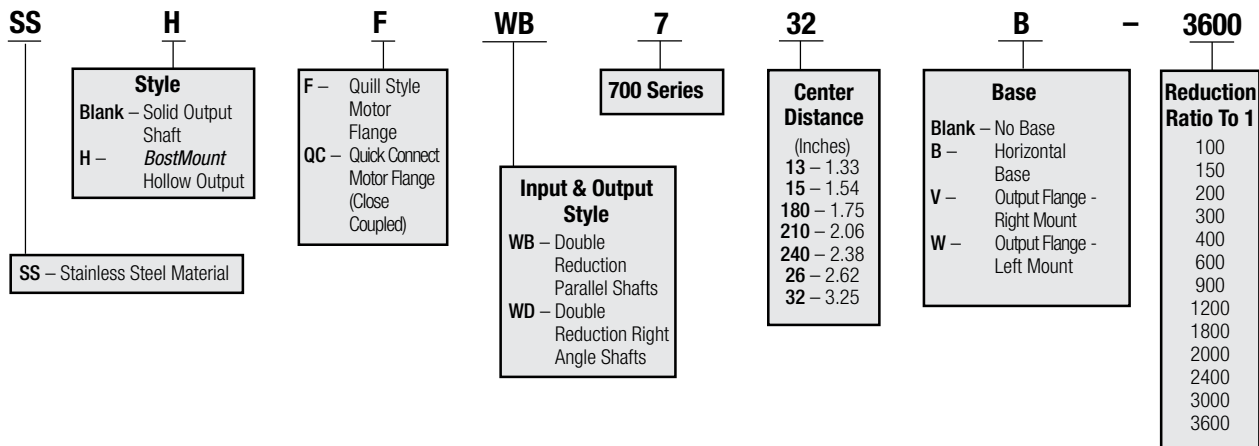
700 Series Right Angle Double Reduction Worm Speed Reducer

Example: SBKCHQCHMA738B-300KEZT-B5-HS1-P24-CMBA56U-6-HTUF5/8-IDB-3



SS700 Stainless Steel Double Reduction Worm Speed Reducer

Example: SSHFWB732B-3600KT-B5-LS1-P20



Clutch/Brake

Motor

HS 1 - P24 -

CMBA56U-6 -

HUTF5/8-IDB - 3

BostMount Output Bore Code

For H Series Only Specified in 1/16" increments.

Example: 1 1/4" = P20

5/8 - P10	1-1/2 - P24
3/4 - P12	1-5/8 - P26
7/8 - P14	1-11/16 - P27
15/16 - P15	1-3/4 - P28
1 - P16	1-7/8 - P30
1-1/16 - P17	1-15/16 - P31
1-1/8 - P18	2 - P32
1-3/16 - P19	2-1/8 - P34
1-1/4 - P20	2-3/16 - P35
1-5/16 - P21	2-1/4 - P36
1-3/8 - P22	2-7/16 - P39
1-7/16 - P23	3-7/16 - P55

See catalog P-1485-BG for availability by center distance.

Common C-Face Brakes Installed

115/230 VAC 60hz	Ft-Lb	Bore Code
CMBA56R-3	3	B5
CMBA56R-6	6	B5
CMBA140TR-6	6	B7

208-230/460 VAC 60hz	Ft-Lb	Bore Code
CMBA56U-3	3	B5
CMBA56U-6	6	B5
CMBA140TU-6	6	B7

Other sizes available. See catalog P-1485-BG

Motor Conduit box Orientation (When looking at fan end of motor and gearbox is in mounting position #1)

- 0 - 12 O'clock
- 3 - 3 O'clock (standard for G & H shaft assemblies)
- 6 - 6 O'clock
- 9 - 9 O'clock (standard for J shaft assemblies)

Common C-Face Motors Installed

HP Rating	Bore Code	AC Voltage	
		115/208-230-1-60	208-230/460-3-60
1/4 HP	B5	DRTFB	DUTFB
1/3 HP	B5	ERTFB	EUTFB
1/2 HP	B5	FRTFB	FUTFB
	B5		FUT-SS
	B5		FUTF-IDB
3/4 HP	B5	GRTFB	GUTFB
	B5		GUT-SS
	B5		GUTF-IDB
1 HP	B5	HRTF-5/8B	HUTF5/8B
	B5		HUT5/8-SS
	B5		HUTF5/8-IDB
	B7		HUTFB
	B7		HUT-SS
1.5 HP	B7		JUTFB
	B7		JUTF-SS
	B7		JUTF-IDB
	B7		JUTF-SS
2 HP	B5		KUTF5/8B
	B7		KUTFB
	B7		KUTF-SS
	B7		KUTF-IDB
3 HP	B9		LUTFB
	B9		LUTF-SS
	B9		LUTF-IDB
5 HP	B9		MUTFB

Other motors available, please see catalog P-1485-BG.

- T - Totally enclosed non-ventilated
- TF - Totally enclosed fan cooled
- SS - Stainless
- IDB - Inverter Duty (10:1 turn down constant torque)
- B5 - 56C
- B7 - 140TC
- B9 - 180TC

Mounting Positions

Blank - No Lubrication Supplied

For Factory Prelubrication Indicate Mounting Position

- 1 - Standard Mounting (Worm over)
- 2-6 - Refer to Mounting Positions in catalog P-1485-BG

Output Shaft Assembly

Double Reduction WA and WB

G	Output Projection Opposite Input
H	Double Output Projection
J	Output Projection Same Side as Input
GS	Stainless Output Projection Opposite Input
HS	Stainless Double Output Projection
JS	Stainless Output Projection Same Side as Input

Double Reduction WA and WB Mirrored Design

K	Output Projection Opposite Input
L	Double Output Projection
M	Output Projection Same Side as Input
KS	Stainless Output Projection Opposite Input
LS	Stainless Double Output Projection
MS	Stainless Output Projection Same Side as Input

Double Reduction WC and WD (When facing Input)

G	Output Projection Down
H	Double Output Projection
J	Output Projection Upward
GS	Stainless Output Projection Down
HS	Stainless Double Output Projection
JS	Stainless Output Projection Upward

Double Reduction WC and WD (When facing Input) Mirrored Design

K	Output Projection Down
L	Double Output Projection
M	Output Projection Upward
KS	Stainless Output Projection Down
LS	Stainless Double Output Projection
MS	Stainless Output Projection Upward

K

Lubrication

- Blank - No Lubrication Provided
- K - Klubersynth UH1-6-460 (PAG) H1 Food-Grade
- D - Mobil Cibus SHC 460 (PAO) H1 Food-Grade

T

Seal Options

- Blank - Standard Seals
- C - High pressure washdown output seals and double input seals
- CT - C option plus Double Input Seals **IP69K**

NEMA Motor Mounting

Bore Code	NEMA Mounting	Input Bore	Keyway Sizes
B4	42CZ	.500	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32

B5

LS

Output Shaft

- 303 Stainless Steel (when facing input of base housing)
- MS - Stainless Output Projection - Left
- LS - Stainless Double Output Projection
- KS - Stainless Output Projection - Right

1

Mounting Positions

- 1 - Standard Mounting (Worm Over)
- 2-6 - Refer to Mounting Positions on Page 7*

P20

BostMount Output Bore Code

- Blank - Solid Output Shaft
- Pxx see Table 1*
- APxx see Table 3*
- TPxx see Table 4* (Page 7)
- Specified in 1/16" increments
- Ex: xx = 20 for 1-1/4" (APxx, TPxx for sizes 7180, 7210, 7240 only)

PMxx and APMxx are metric and specified in mm

Motor C-Face Motor

- Blank - No Motor
- See Table 2* on Page 7

Motor Conduit Box Orientation

- (When looking at fan end of motor and gearbox is in mounting position #1)
- 0 - 12 O'clock
- 3 - 3 O'clock (standard for M & L shaft assemblies)
- 6 - 6 O'clock
- 9 - 9 O'clock (standard for K shaft assemblies)

* Refer to P-1998-BG Stainless Steel Power Transmission Products Catalog Visit www.bostongear.com

Warranty

The Company warrants that all 700 Series speed reducers will be free from defects in material and workmanship over the lifetime of the product.

Oil seals are considered to be replaceable maintenance items.

Any products which shall be proved to the Company's satisfaction to have been defective at the time of delivery in these respects will be replaced or repaired by the Company at its option. Freight is the responsibility of the customer. The Company's liability under this warranty is limited to such replacement or repair and it shall not be held liable in any form of action for direct or consequential damages to property or person. THE FOREGOING WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER, EXPRESS, IMPLIED AND STATUTORY AND INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. No employee, agent, distributor, or other person is authorized to give additional warranties on behalf of Boston Gear, nor to assume for Boston Gear any other liability in connection with any of its products, except an officer of Boston Gear by a signed writing.



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