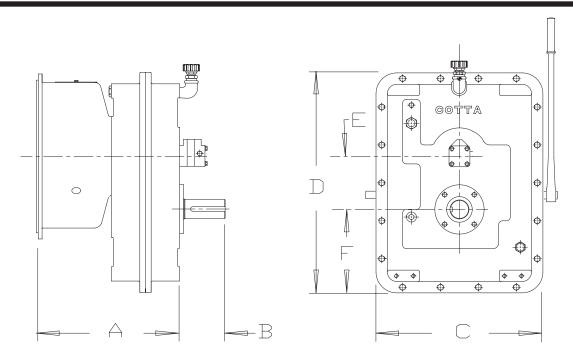


COTTA SPEED INCREASERS



Model	Torque Capacity (Ib. ft.)	Ratio Range	SAE Hsg. Size	Approx Weight (Ibs.)	Output Shaft Dia.	Key Size	А	В	С	D	E	F
AO2053A	650	1 to 4	1 ② 3 4	400	2.25	5/8	14.62	5.65	16.12	21.75	5.5	9.13
AO2053E	450	1 to 4	1 ② 3 4	415	2.25	5/8	14.62	5.65	16.12	21.75	5.5	9.13
SI2A	1450	1.5 to 3.07	0 ① 2	750	2.5	5/8	18.5	6.0	22.0	29.0	7.0	11.0
SI2E	1300	1.5 to 3	0 ① 2	800	2.5	5/8	18.5	6.0	22.0	29.0	7.0	11.0
SI3A	2000	1.39 - 3.04	0 ①	1050	2.75	5/8	22.75	6.3	25.0	33.00	8.0	12.5
SI3E	1900	1.38 to 3	0 ①	1185	2.75	5/8	22.75	6.3	25.0	33.00	8.0	12.5
GO1700A	5500	1.42 to 3.0	00 ①	1900	2.75	5/8	26.75	7.4	28.25	35.19	10.25	15.37
GO1700E	5500	1.27 to 2.95	00 ①	1925	2.75	5/8	26.75	7.4	28.25	35.19	10.25	15.37
GO1900A	7900	1.28 to 5	00 0	2100	3.25	3/4	24.5	7.15	38.0	42.0	13.5	19.0
GO1900A	7900	1.28 to 5	00 0	2200	3.25	3/4	24.5	7.15	38.0	42.0	13.5	19.0

- All dimensions are in inches.
- Circled bell housings are standard. Chart dimension "A" is based upon this standard. Consult individual spec sheets for optional bell housing dimensions.
- Standard output shaft location for speed increasers is 12 o'clock to the input.
- Cotta speed increasers are designed to be driven clockwise facing the input shaft.
- Refer to individual specification sheets for speed limitations.
- All speed increasers require rear supports. Location of support holes vary. See spec sheet for specific dimensions.



MODEL AO2053A SPEED INCREASER

Model AO2053A is a heavy duty unit mounted speed increaser having anti-engine rotation. It is available with a variety of input bell housings to fit the different engines. A wide range of ratios are offered. The gears are helical, carburized and are designed per AGMA specifications. The bearings are tapered roller. The case is cast iron.

CAPACITY: 650 lb. ft.

MAXIMUM INPUT SPEED: 3000 RPM

MAXIMUM OUTPUT SPEED: 4500 RPM

RATIOS: (STANDARD) 1.55, 2.0

1.40, 1.80, 2.50, 3.00

BELL HOUSINGS: SAE #1, #2, #3, #4

CLUTCH SIZES: C110, SP111, SP211, SP114

OUTPUT SHAFT: 2.250 diameter x 5" long, 5/8 x 5/16

keyway. Output shaft located above the

input shaft at 12 o'clock.

REAR SUPPORT: 4 Holes 1/2-13 on rear cover for customer

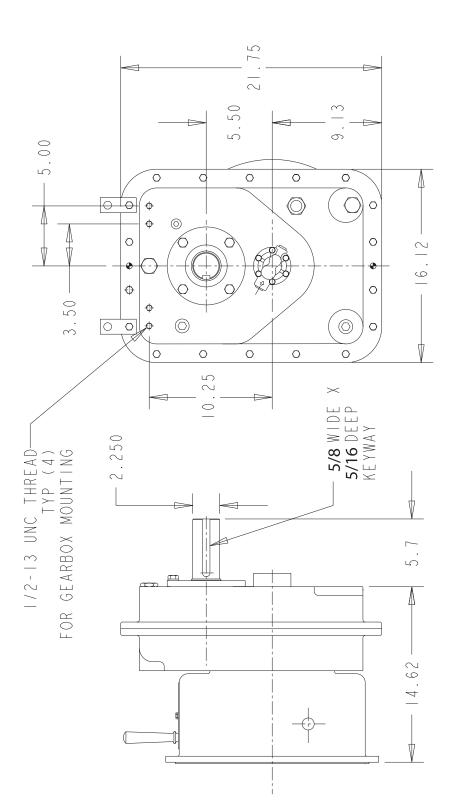
support plate

LUBRICATION: Splash

ISO Grade 68, AGMA #2

WEIGHT: 400 lbs

OUTPUT CAN BE ORIENTED AT 6 OR 12 O'CLOCK POSITION



DO NOT USE DIMENSIONS ON THIS DRAWING FOR INSTALLATIONS, USE CERTIFIED PRINT PROVIDED WITH ORDERS.





MODEL AOR2053A SPEED INCREASER

Model AOR2053A is an independently mounted speed increaser. The gears are helical and are carburized to RC58 minimum. The bearings are tapered roller and the case is cast iron.

CAPACITY: 650 lb. ft. (nominal input torque)

(See AO2053A capacity curve)

MAXIMUM INPUT SPEED: 3600 RPM

MAXIMUM OUTPUT SPEED: 5000 RPM

DIRECTION OF ROTATION: Output rotation is opposite to input

rotation

RATIOS: 1.20, 1.40, 1.55, 1.80, 2.0, 2.50, 3.00

INPUT SHAFT: 2.25" dia. x 5" long with 5/8 x 5/16 keyway

OUTPUT SHAFT: 2.25" dia. x 5" long with 5/8 x 5/16 keyway

CENTER DISTANCE: 5.500"

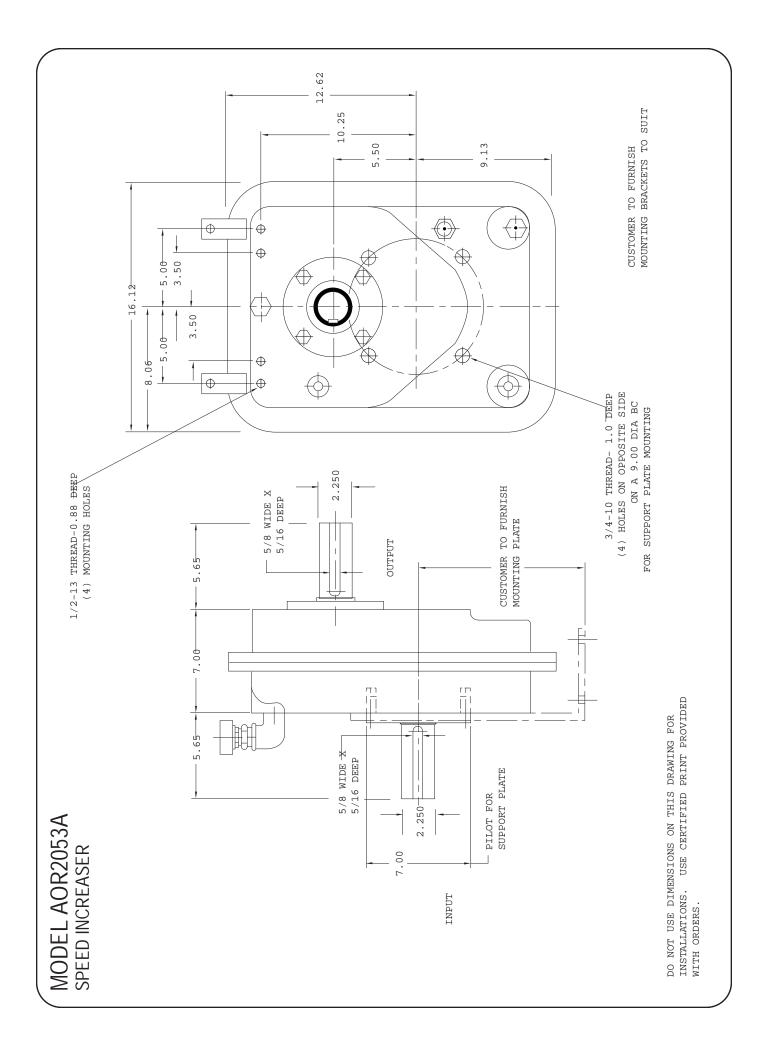
LUBRICATION: Splash

ISO Grade 46, AGMA #1

MOUNTING: There is a 6.999" dia. pilot and 4 holes

3/4-10 on a 9.000" B.C. on the front of the case for mounting purposes. There are also 4 holes 1/2-13 on the case rear cover that can also be used if required.

WEIGHT: 350 lbs





MODEL AO2053E SPEED INCREASER

Model AO2053E is a heavy duty unit mounted speed increaser having engine rotation. It is available with a variety of input bell housings to fit the different engines. A wide range of ratios are offered. The gears are helical, carburized and are designed per AGMA specifications. The bearings are tapered roller. The case is cast iron.

CAPACITY: 450 lb. ft. (nominal input torque)

MAXIMUM INPUT SPEED: 3000 RPM

MAXIMUM OUTPUT SPEED: 4500 RPM

RATIOS: (STANDARD) 1.50, 1.96

(SPECIAL) 1.42, 1.67, 2.48, 3.0

BELL HOUSINGS: SAE #1, #2, #3, #4

CLUTCH SIZES: C110, SP111, SP211, SP114

OUTPUT SHAFT: 2.250 diameter x 5' long, 5/8 x 5/16

keyway. Output shaft located above

the input shaft at 12 o'clock.

REAR SUPPORT: 4 Holes 1/2-13 on rear cover for

customer support plate

LUBRICATION: Splash

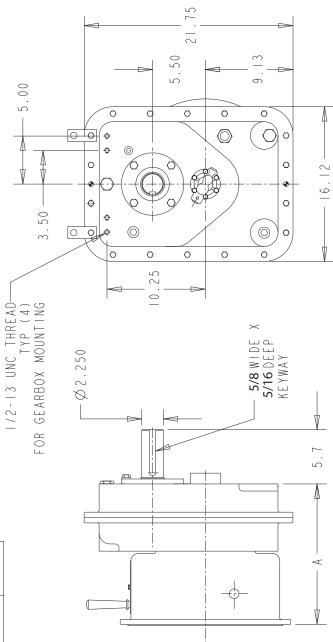
ISO Grade 68, AGMA #2

WEIGHT: 415 lbs

MODEL AO2053E SPEED INCREASER

BELLHSG	DIM A
A —	16.5
#2, #3, #4	14.62

OUTPUT CAN BE ORIENTED AT 6 OR 12 O'CLOCK POSITION



DO NOT USE DIMENSIONS ON THIS DRAWING FOR INSTALLATIONS, USE CERTIFIED PRINT PROVIDED WITH ORDERS.





MODEL AOR2053E SPEED INCREASER

Model AOR2053E is an independently mounted speed increaser. The gears are helical and are carburized to RC58 minimum. The bearings are tapered roller and the case is cast iron.

CAPACITY: 650 lb. ft. (nominal input torque)

(See AO2053A capacity curve)

MAXIMUM INPUT SPEED: 3600 RPM

MAXIMUM OUTPUT SPEED: 5000 RPM

RATIOS: 1.20, 1.40, 1.55, 1.80, 2.0, 2.50, 3.00

INPUT SHAFT: 2.25" dia. x 5" long with 5/8 x 5/16 keyway

OUTPUT SHAFT: 2.25" dia. x 5" long with 5/8 x 5/16 keyway

CENTER DISTANCE: 5.500"

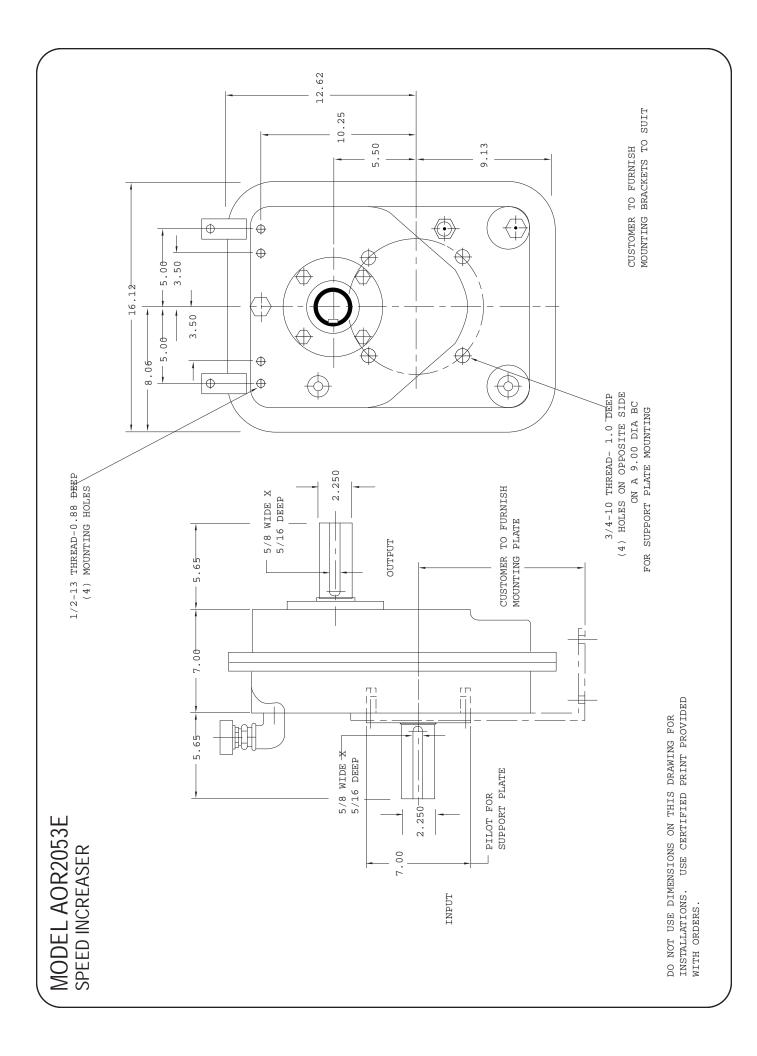
LUBRICATION: Splash

ISO Grade 46, AGMA #1

MOUNTING: There is a 6.999" dia. pilot and 4 holes

3/4-10 on a 9.000" B.C. on the front of the case for mounting purposes. There are also 4 holes 1/2-13 on the case rear cover that can also be used if required.

WEIGHT: 350 lbs





MODEL SI2A SPEED INCREASER

Model SI2A is a heavy duty unit mounted speed increaser having anti-engine rotation. It is available with a variety of input housings and clutches or rubber block drives to fit the different engines. A wide range of ratios are offered.

The gears are helical, carburized and precision ground and are per AGMA specifications. The bearings are taper roller.

CAPACITY (nominal input torque): 1450 lb. ft.

MAXIMUM INPUT SPEED: 3000 RPM with SP214 & SP314 clutch

2000 RPM with SP218 clutch

MAXIMUM OUTPUT SPEED: 4500 RPM

RATIOS: 1.5, 1.68, 1.75, 1.97, 2.24, 2.55, 3.07

BELL HOUSINGS: SAE #0, #1, #2

CLUTCHES: SP211, SP214, SP314, SP218

OUTPUT SHAFT: 2.500" diameter with 5/8 x 5/16

keyway

REAR SUPPORT: 4 holes 1/2-13 on rear cover for

customers support plate

LUBRICATION: ISO Viscosity Grade 68

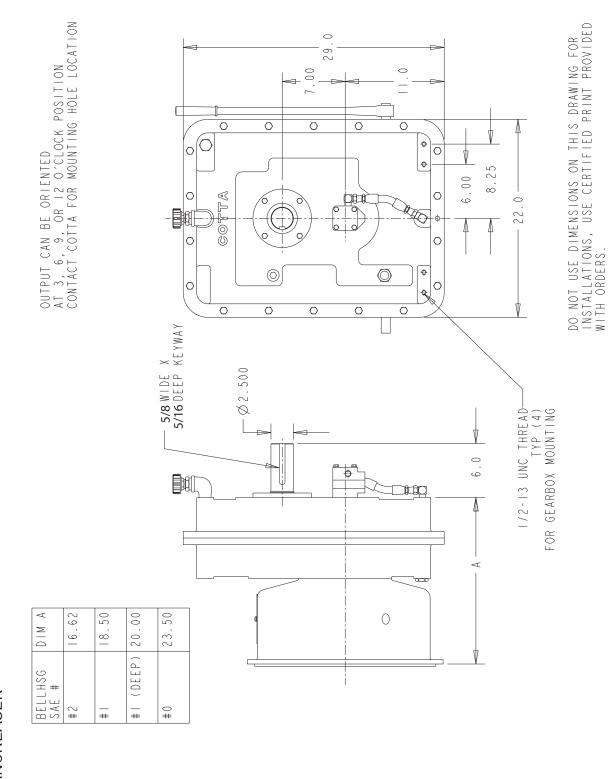
Lube pump and filter furnished

COOLING: Heat exchanger is furnished (loose)

WEIGHT: 750 lbs

Note: The output shaft can be located at 6 o'clock (below the input shaft) or at the 12 o'clock (above the input shaft) positions.

MODEL SI2A SPEED INCREASER





MODEL SI2E SPEED INCREASER

Model SI2E is a heavy duty unit mounted speed increaser having engine rotation. It is available with a variety of input housings to fit the different engines. A wide range of ratios are offered.

The gears are helical, carburized and precision ground and are per AGMA specifications. The bearings are taper roller.

CAPACITY (nominal input torque): 1300 lb. ft.

MAXIMUM INPUT SPEED: 3000 RPM with SP214 & SP314 clutch

2000 RPM with SP218 clutch

MAXIMUM OUTPUT SPEED: 4500 RPM

RATIOS: 1.47, 1.66, 1.74, 1.97, 2.25, 2.46,

2.55, 3.0

BELL HOUSINGS: SAE #0, #1, #2

CLUTCHES: SP211, SP214, SP314, SP218

OUTPUT SHAFT: 2.500" diameter with 5/8 x 5/16

keyway

REAR SUPPORT: 4 holes 1/2-13 on rear cover for

customers support plate

LUBRICATION: ISO Viscosity Grade 68

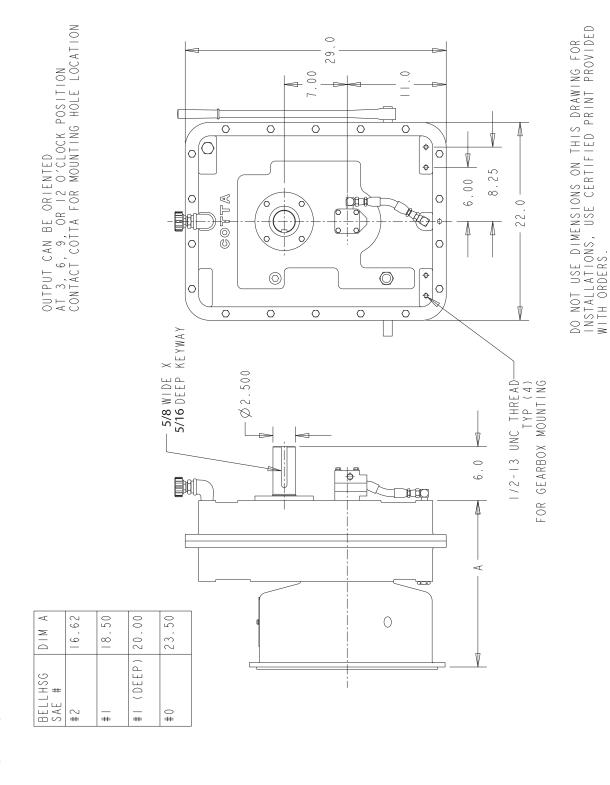
Lube pump and filter furnished

COOLING: Heat exchanger is furnished (loose)

WEIGHT: 800 lbs

Note: The output shaft can be located at 6 o'clock (below the input shaft) or at the 12 o'clock (above the input shaft) positions.

MODEL SIZE SPEED INCREASER





MODEL SI3A SPEED INCREASER

Model SI3A is a heavy duty unit mounted speed increaser having anti-engine rotation. It is available with a variety of input housings and clutches (or rubber block drives or flywheel couplings) to fit the different engines. A wide range of ratios are offered.

The gears are helical, carburized and precision ground and are per AGMA Q-12. The bearings are taper roller throughout. The case is heavy cast iron.

CAPACITY (nominal input torque): 2000 lb. ft.

MAXIMUM INPUT SPEED: 3000 RPM

NOTE: with SP218 clutch - 2000 RPM

with SP318 clutch - 2350 RPM

MAXIMUM OUTPUT SPEED: 6000 RPM

RATIOS: 1.39, 1.50, 1.66, 2.0, 2.21, 2.44, 3.04

BELL HOUSINGS: SAE #0, #1

CLUTCHES: SP314, SP218, SP318 and

14" and 18" rubber block drives

OUTPUT SHAFT: 2.750" diameter with 5/8 x 5/16

keyway

REAR SUPPORT: 4 holes 5/8-11 on rear cover for

customers support plate

LUBRICATION: ISO Viscosity Grade 68

Lube pump and filter furnished

COOLING: Heat exchanger is furnished (loose)

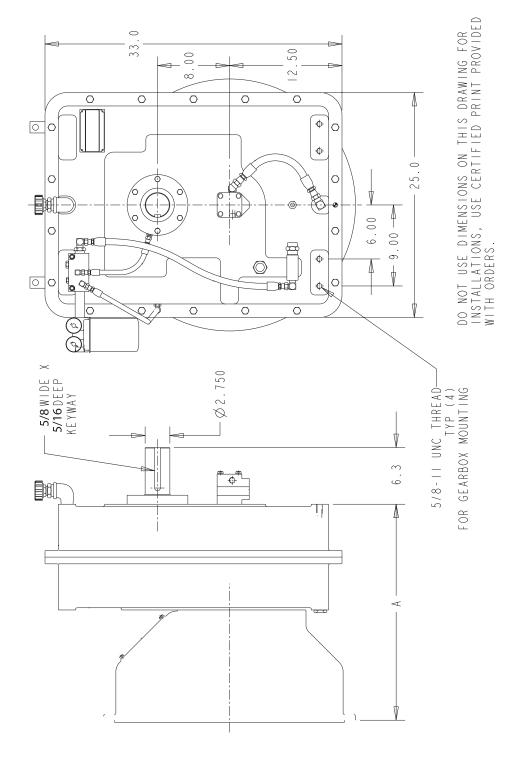
WEIGHT: 1000 lbs

Note: The output shaft can be located at 6 o'clock (below the input shaft) or at the 12 o'clock (above the input shaft) positions.

MODEL SI3A SPEED INCREASER



OUTPUT CAN BE ORIENTED AT 3, 6, 9, OR 12 O'CLOCK POSITION CONTACT COTTA FOR MOUNTING HOLE LOCATION





MODEL SI3E SPEED INCREASER

Model SI3E is a heavy duty unit mounted speed increaser having engine rotation. It is available with a variety of input housings and clutches (or rubber block drives or flywheel couplings) to fit the different engines. A wide range of ratios are offered.

The gears are helical, carburized and precision ground and are per AGMA specifications. The bearings are taper roller throughout. The case is heavy cast iron.

CAPACITY (nominal input torque): 1900 lb. ft.

MAXIMUM INPUT SPEED: 3000 RPM

NOTE: with SP218 clutch - 2000 RPM

with SP318 clutch - 2350 RPM

MAXIMUM OUTPUT SPEED: 6000 RPM

RATIOS: 1.38, 1.67, 2.03, 2.26, 2.52, 3.00

BELL HOUSINGS: SAE #0, #1

CLUTCHES: SP314, SP218, SP318 and

14" and 18" rubber block drives

OUTPUT SHAFT: 2.750" diameter with 5/8 x 5/16

keyway

REAR SUPPORT: 4 holes 5/8-11 on rear cover for

customers support plate

LUBRICATION: ISO Viscosity Grade 68

Lube pump and filter furnished

COOLING: Heat exchanger is furnished (loose)

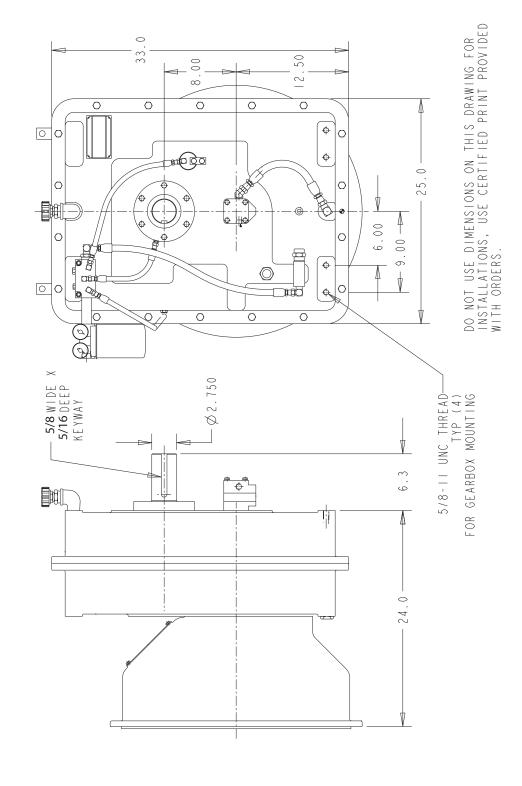
WEIGHT: 1185 lbs

Note: The output shaft can be located at 6 o'clock (below the input shaft) or at the 12 o'clock (above the input shaft) positions.

MODEL SI3E SPEED INCREASER



OUTPUT CAN BE ORIENTED AT 3, 6, 9, OR 12 O'CLOCK POSITION CONTACT COTTA FOR MOUNTING HOLE LOCATION







MODEL GO1700A SPEED INCREASER

Model GO1700A is a heavy duty independently mounted speed increaser having antiengine rotation. The gears are helical, carburized and precision ground for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

CAPACITY: 5500 ft. lbs.

MAXIMUM INPUT SPEED: 2500 RPM

MAXIMUM OUTPUT SPEED: 5500 RPM

RATIOS: 1.42, 1.67, 1.76, 1.96, 2.20, 2.48, 2.76, 3.0

INPUT HOUSINGS: SAE #0, #00

INPUT CLUTCH: Overcenter type clutches, rubber block

drives or couplings to fit various engines.

OUTPUT SHAFT: 2.750" diameter x 6.0" long with 5/8W x

15/16D keyway.

OUTPUT SHAFT LOCATIONS: 12 o'clock- output is above input

6 o'clock- output is below input 9 o'clock- output is to left of input

LUBRICATION REQUIREMENT: Lube pump furnished for oil spray on

bearings and gears.

COOLING: Heat exchanger furnished

ACCESSORIES FURNISHED: Oil level sight gauge, filter,

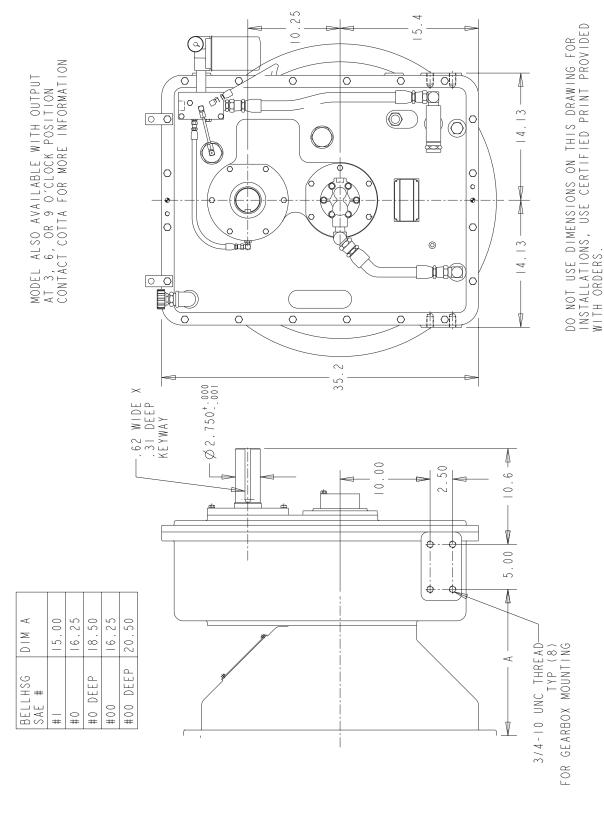
temperature/pressure switch relief valve

OPTIONS: Stub input shaft 4.000" diameter x 6" long

1" W x 1/2D

WEIGHT: 1900 lbs

MODEL GO1700A SPEED INCREASER





MODEL GO1700E SPEED INCREASER

Model GO1700E is a heavy duty independently mounted speed increaser having engine rotation. The gears are helical, carburized and precision ground for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

Text

CAPACITY: 5500 ft.lbs.

MAXIMUM INPUT SPEED: 2500 RPM

MAXIMUM OUTPUT SPEED: 5500 RPM

RATIOS: 1.27, 1.68, 2.0, 2.26, 2.57, 2.75, 2.95

INPUT HOUSINGS: SAE #0, #00

INPUT CLUTCH: Overcenter type clutches, rubber block

drives or couplings to fit various engines.

OUTPUT SHAFT: 2.750" diameter x 6.0" long with 5/8W x

15/16D keyway.

OUTPUT SHAFT LOCATIONS: 12 o'clock- output is above input

6 o'clock- output is below input 9 o'clock- output is to left of input

LUBRICATION REQUIREMENT: Lube pump furnished for oil spray on bear-

ings and gears.

COOLING: Heat exchanger furnished

ACCESSORIES FURNISHED: Oil level sight gauge, filter,

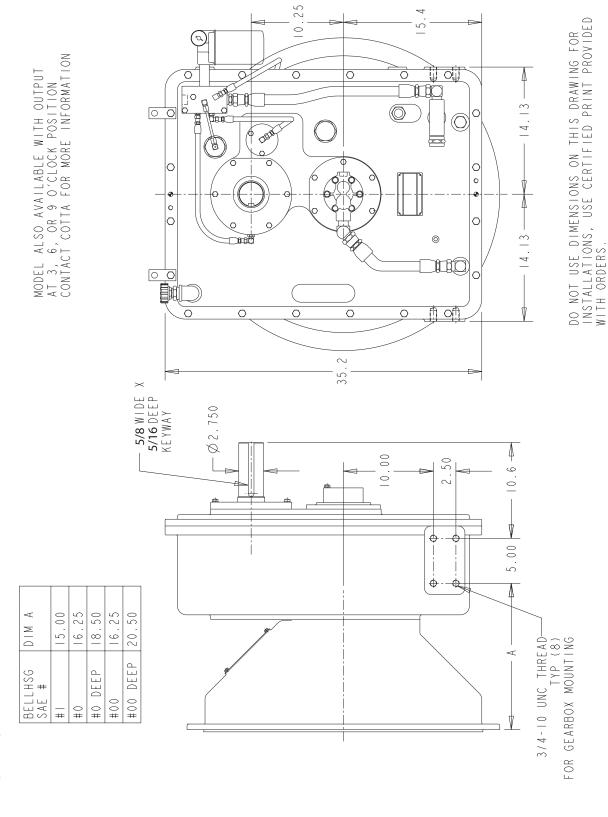
temperature/pressure switch relief valve

OPTIONS: Stub input shaft 4.000" diameter x 6" long

1" W x 1/2D

WEIGHT: 1900 lbs

MODEL GO1700E SPEED INCREASER





MODEL GOR1700A SPEED INCREASER

Model GOR1700A is a heavy duty independently mounted speed increaser having antiengine rotation. The gears are helical, carburized and precision ground for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

CAPACITY:	INPUT SPEED	<u>HP</u>
	1200	1400
	1800	1850
	2000	2000
	2200	2200
	2500	2350

NOTE: Capacities are in horsepower and are based upon 10,000 hours B-10 bearing life.

MAXIMUM INPUT SPEED: 2500 RPM

MAXIMUM OUTPUT SPEED: 5500 RPM

RATIOS: 1.42, 1.59, 1.67, 1.76, 1.96, 2.20, 2.48,

2.76, 3.0

INPUT SHAFT: 4.000" Dia. x 6.0" long with 1" wide x .50"

deep keyway.

OUTPUT SHAFT: 2.750" Dia. x 6.0" long with .625 wide x .31

deep keyway.

OUTPUT SHAFT LOCATIONS: 12 o'clock - output is above input

6 o'clock - output is below input

9 o'clock - output is to left of input when

viewed from rear.

LUBRICATION: Lube pump furnished for oil spray on

bearings and gears.

COOLING: Heat exchanger furnished

ACCESSORIES FURNISHED: Oil level sight gauge

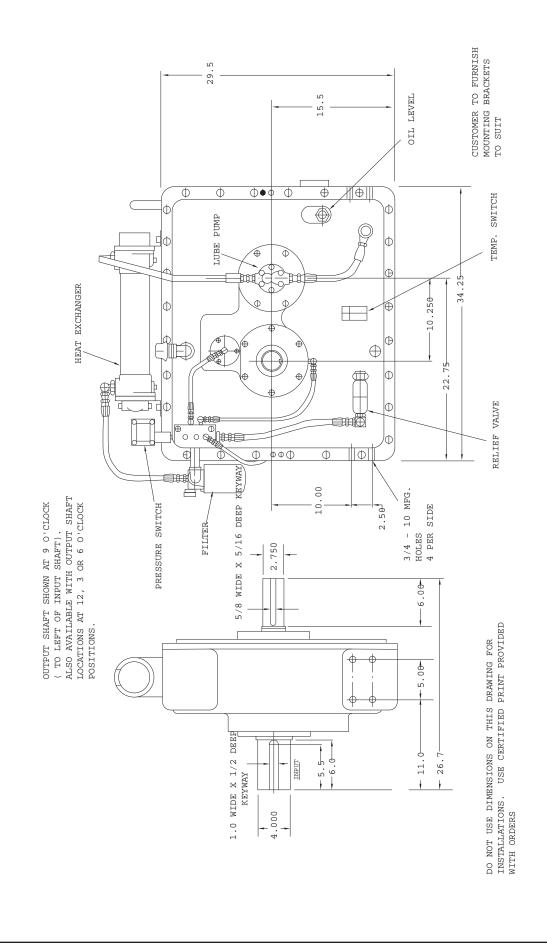
Filter

Temperature/Pressure switch

Relief Valve

NOTE: Mounting brackets are \underline{not} furnished as standard equipment. Customer to furnish brackets to suit installation.

MODEL GOR1700A SPEED INCREASER





MODEL GOR1700E SPEED INCREASER

Model GOR1700E is a heavy duty independently mounted speed increaser having engine rotation. The gears are helical, carburized and precision ground for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

CAPACITY:	INPUT SPEED	<u>HP</u>
	1200	1400
	1800	1850
	2000	2000
	2200	2200
	2500	2350

NOTE: Capacities are in horsepower and are based upon 10,000 hours B-10 bearing life.

MAXIMUM INPUT SPEED: 2500 RPM

MAXIMUM OUTPUT SPEED: 5500 RPM

RATIOS: 1.27, 1.59, 1.68, 1.78, 2.0, 2.26, 2.57,

2.75, 2.95, 3.11

INPUT SHAFT: 4.000" Dia. x 6.0" long with 1" wide x .50"

deep keyway.

OUTPUT SHAFT: 2.750" Dia. x 6.0" long with .625 wide x .31

deep keyway.

OUTPUT SHAFT LOCATIONS: 12 o'clock - output is above input

6 o'clock - output is below input

9 o'clock - output is to left of input when

viewed from rear.

LUBRICATION: Lube pump furnished for oil spray on

bearings and gears.

COOLING: Heat exchanger furnished

ACCESSORIES FURNISHED: Oil level sight gauge

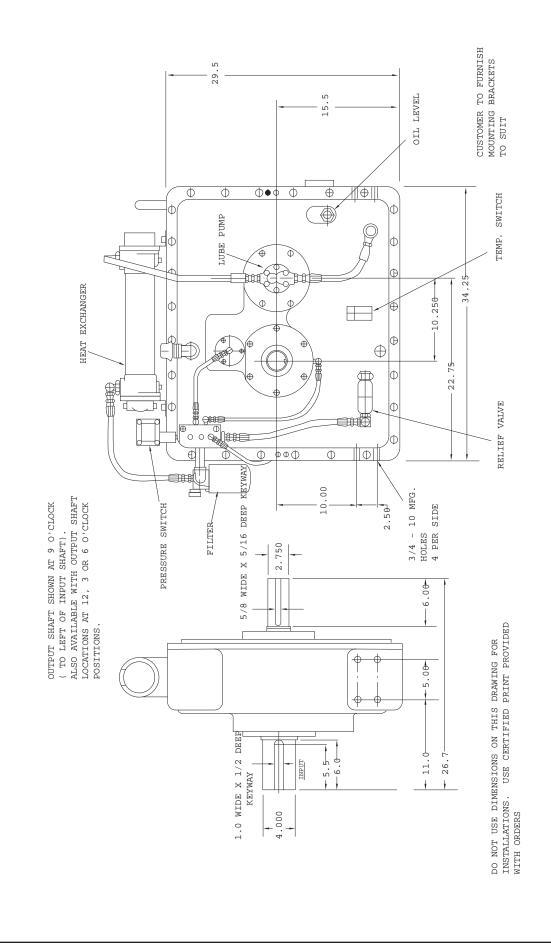
Filter

Temperature/Pressure switch

Relief Valve

NOTE: Mounting brackets are <u>not</u> furnished as standard equipment. Customer to furnish brackets to suit installation.

MODEL GOR1700E SPEED INCREASER





MODEL GO1901A SPEED INCREASER

Model GO1901A is a heavy duty speed increaser with anti-engine rotation. The gears are helical, carburized to RC 59-61 and are precision ground to AGMA class Q-12 for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

This model is available with a SAE bell housing and clutch (or rubber block drive or coupling) for unit mounting to an engine. It can also be furnished with a stub input shaft for independent mounting.

CAPACITY: 7900 ft. lbs

MAXIMUM INPUT SPEED: 2500 RPM

MAXIMUM OUTPUT SPEED: 4800 RPM

RATIOS: 1.28, 1.54, 1.97, 2.54, 2.967, 3.52, 4.0,

4.24, 5.0

INPUT HOUSINGS: SAE #0, #00

INPUT CLUTCHES: Over center type clutches, rubber block

drives or couplings to fit various engine fly-

wheels.

OUTPUT SHAFT: 3.25" diameter x 6.0" long with .75 x

.375 keyway

OUTPUT SHAFT LOCATION: 12 o'clock - output is above the input

shaft when viewed from rear

LUBRICATION: Lube pump is furnished for oil spray on

bearings and gear. Sump is in case.

COOLING: Heat exchanger is furnished

ACCESSORIES FURNISHED: Oil level sight gauge, filter,

temperature/pressure switch, relief valve

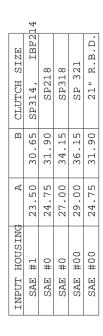
OPTIONS: Stub input shaft 4.500" diameter x 6"

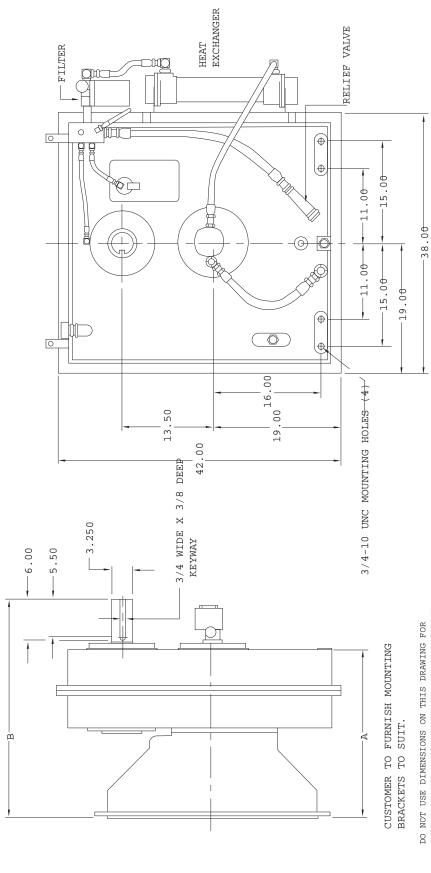
long with a 1" wide x 1/2" deep keyway

when independently mounted

WEIGHT: 2100 lbs 07/31/03

MODEL GO1901A SPEED INCREASER





DO NOT USE DIMENSIONS ON THIS DRAWING FOR INSTALLATIONS. USE CERTIFIED PRINT PROVIDED WITH ORDERS



MODEL GO1901E SPEED INCREASER

Model GO1901E is a heavy duty speed increaser with engine rotation. The gears are helical, carburized to RC 59-61 and are precision ground to AGMA class Q-12 for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

This model is available with a SAE bell housing and clutch (or rubber block drive or coupling) for unit mounting to an engine. It can also be furnished with a stub input shaft for independent mounting.

7900 ft. lbs CAPACITY:

2500 RPM

MAXIMUM INPUT SPEED:

4800 RPM MAXIMUM OUTPUT SPEED:

1.27, 1.54, 1.76, 1.95, 2.43, 3.10, 3.54,

RATIOS: 4.08, 4.52, 5.05

SAE #0, #00

INPUT HOUSINGS:

Over center type clutches, rubber block drives or couplings to fit various engine INPUT CLUTCHES:

flywheels.

3.25" diameter x 6.0" long with .75 x

OUTPUT SHAFT: .375 keyway

12 o'clock - output is above the input

shaft when viewed from rear **OUTPUT SHAFT LOCATION:**

Lube pump is furnished for oil spray on

LUBRICATION: bearings and gear. Sump is in case.

Heat exchanger is furnished

COOLING:

Oil level sight gauge, filter,

ACCESSORIES FURNISHED: temperature/pressure switch, relief valve

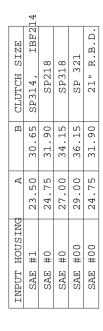
Stub input shaft 4.500" diameter x 6" long with a 1" wide x 1/2" deep keyway **OPTIONS:**

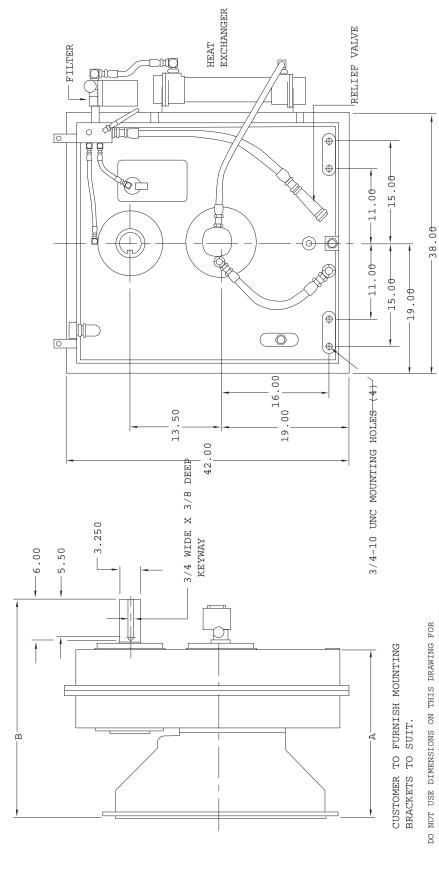
when independently mounted

2100 lbs

WEIGHT: 07/31/03

MODEL GO1901E SPEED INCREASER





DO NOT USE DIMENSIONS ON THIS DRAWING FOR INSTALLATIONS. USE CERTIFIED PRINT PROVIDED WITH ORDERS



MODEL GO1945A SPEED INCREASER

Model GO1945A is a heavy duty speed increaser having anti-engine rotation. The gears are helical, carburized to Rc 59-61 and are precision ground to AGMA class Q-12 for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

This model is available with a SAE bell housing and clutch (or rubber block drive or coupling) for unit mounting to an engine. It can also be furnished with a stub input shaft for independent mounting.

CAPACITY: 7900 ft. lbs.

MAXIMUM INPUT SPEED: 2500 RPM

MAXIMUM OUTPUT SPEED: 4800 RPM

RATIOS: 3.52, 4.24, 5.0

INPUT HOUSINGS: SAE #0, #00

INPUT CLUTCHES: Overcenter type clutches, rubber block

drives or couplings to fit various engine

flywheels

OUTPUT SHAFT: 3.25" diameter x 6.0" long with .75 x .375

keyway

OUTPUT SHAFT LOCATION: 9 o'clock - output is to left of input when

viewed from rear

LUBRICATION REQUIREMENT: Lube pump is fumished for oil spray on

bearings and gear. Sump is in case.

COOLING: Heat exchanger furnished

ACCESSORIES FURNISHED: Oil level sight gauge, filter,

temperature/pressure switch, relief valve

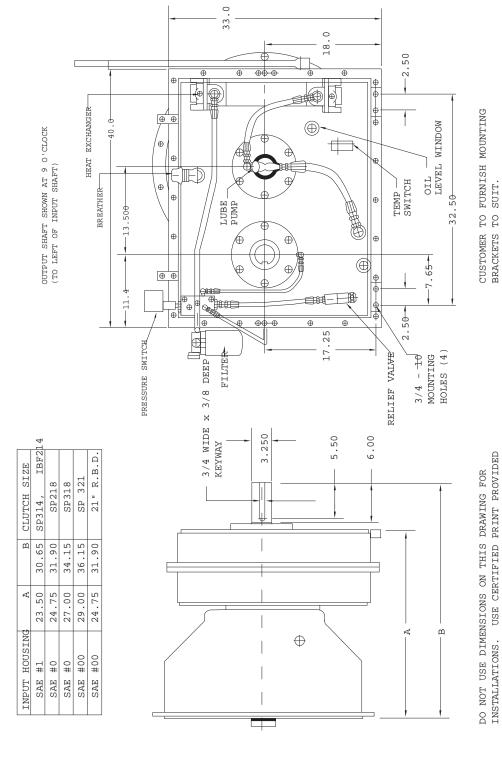
OPTIONS: Stub input shaft 4.500" diameter x 6" long

with a 1" wide x 1/2" deep keyway when

independently mounted

WEIGHT: 2450 lbs

MODEL GO1945A SPEED INCREASER



CUSTOMER TO FURNISH MOUNTING BRACKETS TO SUIT.

WITH ORDER.



MODEL GO1945E SPEED INCREASER

Model GO1945E is a heavy duty speed increaser having engine rotation. The gears are helical, carburized to Rc 59-61 and are precision ground to AGMA class Q-12 for increased strength and quiet operation. The bearings are tapered roller. The case is stress relieved, fabricated steel.

This model is available with a SAE bell housing and clutch (or rubber block drive or coupling) for unit mounting to an engine. It can also be furnished with a stub input shaft for independent mounting.

CAPACITY: 7900 ft. lbs.

MAXIMUM INPUT SPEED: 2500 RPM

MAXIMUM OUTPUT SPEED: 4800 RPM

RATIOS: 1.28, 1.54, 1.75, 1.97, 2.54, 2.97

INPUT HOUSINGS: SAE #0, #00

INPUT CLUTCHES: Overcenter type clutches, rubber block

drives or couplings to fit various engine

flywheels

OUTPUT SHAFT: 3.25" diameter x 6.0" long with .75 x .375

keyway

OUTPUT SHAFT LOCATION: 9 o'clock - output is to left of input when

viewed from rear

LUBRICATION REQUIREMENT: Lube pump is fumished for oil spray on

bearings and gear. Sump is in case.

COOLING: Heat exchanger furnished

ACCESSORIES FURNISHED: Oil level sight gauge, filter,

temperature/pressure switch, relief valve

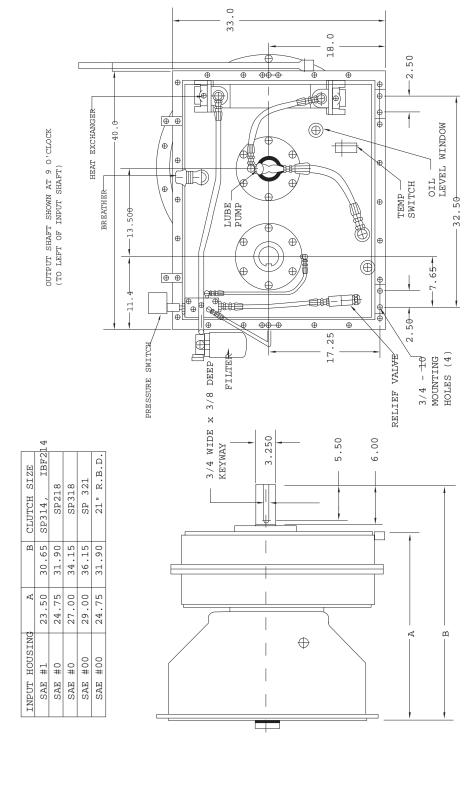
OPTIONS: Stub input shaft 4.500" diameter x 6" long

with a 1" wide x 1/2" deep keyway when

independently mounted

WEIGHT: 2450 lbs

MODEL GO1945E SPEED INCREASER



CUSTOMER TO FURNISH MOUNTING BRACKETS TO SUIT. DO NOT USE DIMENSIONS ON THIS DRAWING FOR INSTALLATIONS. USE CERTIFIED PRINT PROVIDED

WITH ORDER.



MODEL SIR2A SPEED INCREASER

Model SIR2A is an independently mounted speed increaser that is available in a variety of ratios. Model SIR2A has two gears resulting in output rotation opposite input. The gears are helical, carburized, and are precision ground. The bearings are taper roller and the case is cast iron.

CAPACITY (nominal input torque): 1450 lb. ft.

(See SI2A capacity curve)

MAXIMUM INPUT SPEED: 3600 RPM

MAXIMIUM OUTPUT SPEED: 4800 RPM

RATIOS: 1.20, 1.50, 1.68, 1.75, 1.97, 2.24, 2.55

INPUT SHAFT: 3.500 diameter by 7" long with 7/8 x 7/16

keyway

OUTPUT SHAFT: 2.50" diameter by 5.25" long with 5/8 x 5/16

keyway

CENTER DISTANCE: 7.000"

LUBRICATION: ISO Viscosity Grade 68, AGMA #2

Lube pump and filter are furnished

COOLING: A lube type heat exchanger is furnished

(shipped loose). If cooling water is not available a radiator can be furnished (contact Cotta for additional information)

MOUNTING: There is a pilot and 4 drilled and tapped

holes on the front of the case for mounting

purposes.

Mounting bracket is not furnished and is to

be fabricated to suit application.

WEIGHT: 725 lbs

—3/4-10 UNC THREAD - 1,3 DEEP (4) HOLES - EQUALLY SPACED OM A 12.50 DIA. B.C. ON OPPOSITE SIDE FOR GEARBOX MOUNTING 12.5 Ф $\overline{\diamondsuit}$ Ф \oplus Ф \oplus Φ \Diamond -BREATHER & FILLER 0 - 00 -9 -Ф Ф • Φ Ф Ф Ф 9.00 Φ 12.5 \oplus \oplus ф. OUTPUT SHAFT SHOWN AT 12 O'CLOCK (ABOVE THE INPUT SHAFT) LOCATIONS AT 3, 6 AND 9 O'CLOCK POSITIONS _ Ф Φ 4 Φ RELIEF VALVE 5/8-11 UNC THREAD-1.0 DEEP-(4) HOLES FOR GEARBOX MOUNTING 3/8-18 NPT OIL OUTLET TO COOLER 3/4-14 NPT-OIL RETURN FROM COOLER L 5/8 WIDE X 5/16 DEEP KEYWAY 4.50 **⊕**[™] ш ш 3 MAGNETIC DRAIN PLUG-MODEL SIR3A SPEED INCREASER DO NOT USE DIMENSIONS ON THIS PRAWING FOR INSTALLATIONS. USE CERTIFIED PRINT PROVIDED WITH ORDERS 1.00 WIDE X 1/2 DEEP KEYWAY

1/2 - 13 MTG HOLES 29.00 11.00 7.00 CUSTOMER TO FURNISH MOUNTING BRACKETS TO SUIT $\overline{\Phi}$ 0 \oplus \oplus \oplus Ф, 2.25 Φ $\overline{\Phi}$ $\overline{\Phi}$ Ф \bigcirc \bigcirc Ф \oplus 22.00 Ф -ф Ф Ф Ф \bigcirc 11.00 Ф 2.25 \bigoplus 0 0 Ф 3/4-10 THREAD- 1.0 DEKE (4) HOLES ON OPPOSITE SIDE \oplus 0 Ф Φ 0 ON A 12.500 DIA BC FOR SUPPORT PLATE MOUNTING OUTPUT SHAFT SHOWN AT 12 O'CLOCK (ABOVE THE INPUT SHAFT). ALSO AVAILABLE WITH OUTPUT SHAFT LOCATIONS AT 3, 6 OR 9 O'CLOCK 5/8 WIDE \times 5/16 DEEP -2.500 KEYWAY -4.25POSITIONS. DO NOT USE DIMENSIONS ON THIS DRAWING FOR INSTALLATIONS. USE CERTIFIED PRINT PROVIDED 6.50 9.75 9.25 7/8 WIDE \times 7/16 DEEP 6.50 MODEL SIR2A SPEED INCREASER WITH ORDERS 3.500 KEYWAY 9.000 FOR SUPPORT PLATE



MODEL SIR3A SPEED INCREASER

Model SIR3A is a heavy duty independently mounted speed increaser having anti-engine rotation. It is available with a variety of ratios. The gears are helical, carburized and precision ground and are per AGMA Q-12. The bearings are taper roller throughout. The case is heavy cast iron.

CAPACITY (nominal input torque): 2000 lb. ft.

(See SI3A capacity curve)

MAXIMUM INPUT SPEED: 3000 RPM

MAXIMUM OUTPUT SPEED: 6000 RPM

RATIOS: 1.21, 1.39, 1.50, 1.66, 2.0, 2.21, 2.44, 3.04

INPUT SHAFT: 4.25 diameter with 1 x 1.2 k.w. x 8.5 long

OUTPUT SHAFT: 2.75" diameter with 5/8 x 5/16 keyway

CENTER DISTANCE: 8.000"

REAR SUPPORT: 4 holes 5/8-11 on rear cover for

customers support plate

LUBRICATION: ISO Viscosity Grade 68, 31 quarts

Lube pump and filter are furnished

COOLING: Heat exchanger is furnished (loose)

MOUNTING: There is a pilot and 4 drilled and

tapped holes on the front of the case

for mounting.

WEIGHT: 900 lbs