

E & I Corporation

A Member of McNish Corporation

BROOKSEDGE CORPORATE CENTER
748 B GREENCREST DRIVE
WESTERVILLE, OHIO 43081
(614) 899-2282

Parallel Construction Features

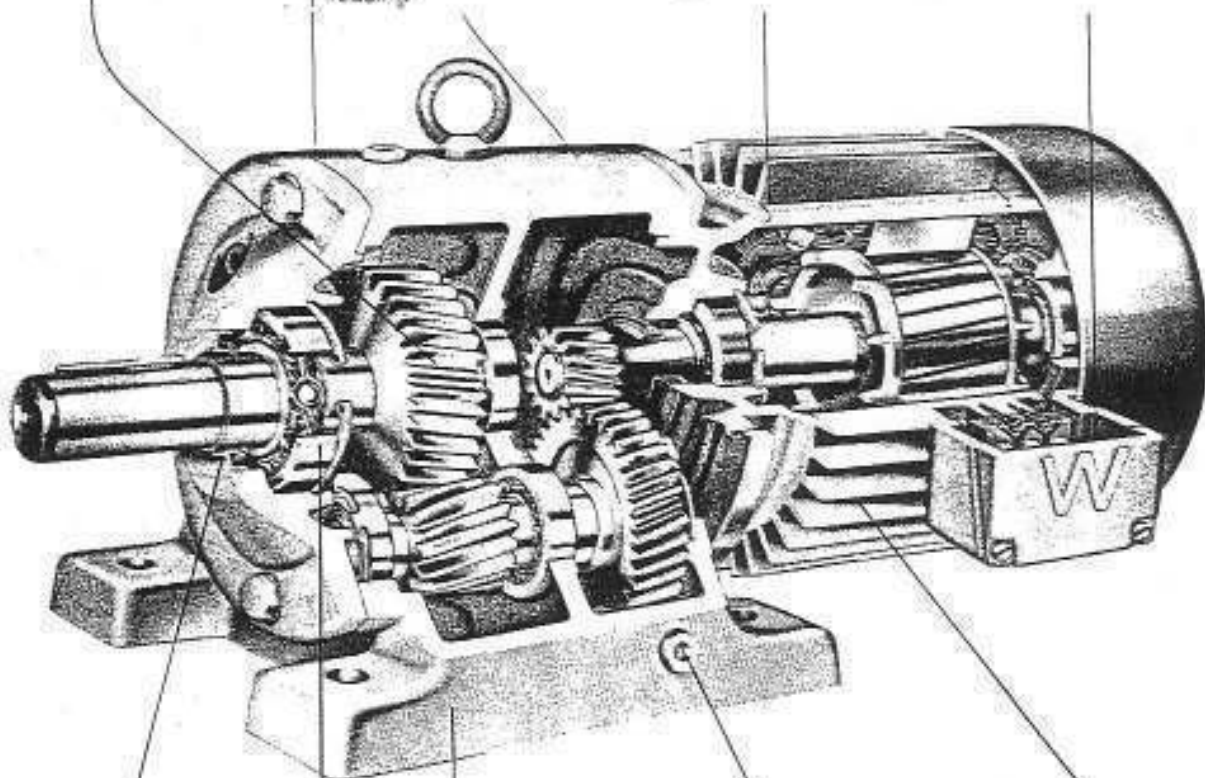
Forged, case hardened gearing to 58 HRC finish ground after heat treat to insure profile.

Gasketed tendon fit for proper assembly and reservoir integrity.

Motors available in A.C. and D.C. types, enclosed and explosion proof, special multi speed and air integrated brake.

Conduit entry into cast iron terminal box containing lugs or terminal blocks.

Rugged cast iron housing.



Oilseal double lip high temperature synthetic riding on precision ground shaft to minimize leakage possibilities for input and output shafts.

Available for foot, flange or agitator mounting.

High overhung load bearings properly adjusted and selected for service class.

Arranged for various mounting positions.

Available for C-face, scoop and piggy back motor mounting also.

Constant Speed Drives Parallel (Helical) Gearmotors & Speed Reducers

.20 to 200 HP. Output speeds available from 1167 RPM to 0.05 RPM. Output torques to 132,700 lb. in. 96% efficient.

PROJECT NO.: 8912003

DWG NO.: E1

ITEM NO.: 1

PROJECT NAME: CONCRETE PUMP

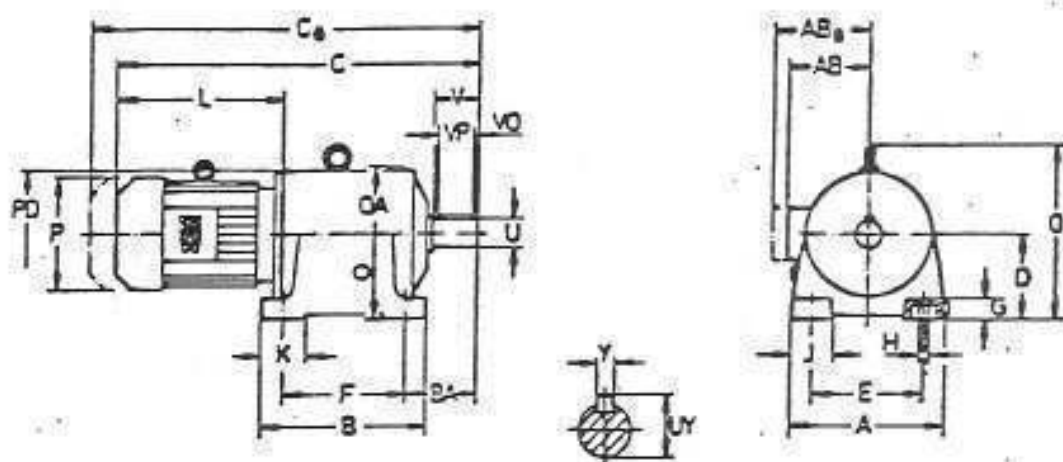
SHEET 1 OF 50

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Parallel (Helical) Gearmotors



FRAME	A	B	BA	D	E	F	G	BOLT	U	V	KEY	
R83	11 $\frac{1}{2}$	12 $\frac{1}{4}$	5 $\frac{1}{2}$	7 $\frac{1}{8}$	8 $\frac{1}{2}$	10 $\frac{1}{4}$	1 $\frac{3}{4}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$	3 $\frac{15}{16}$	1 $\frac{1}{2}$	

PROJECT NO.: 8912002

DWG NO.: EI

ITEM NO.: 1

PROJECT NAME: CONOVER N.C.

SHEET 2 OF 50

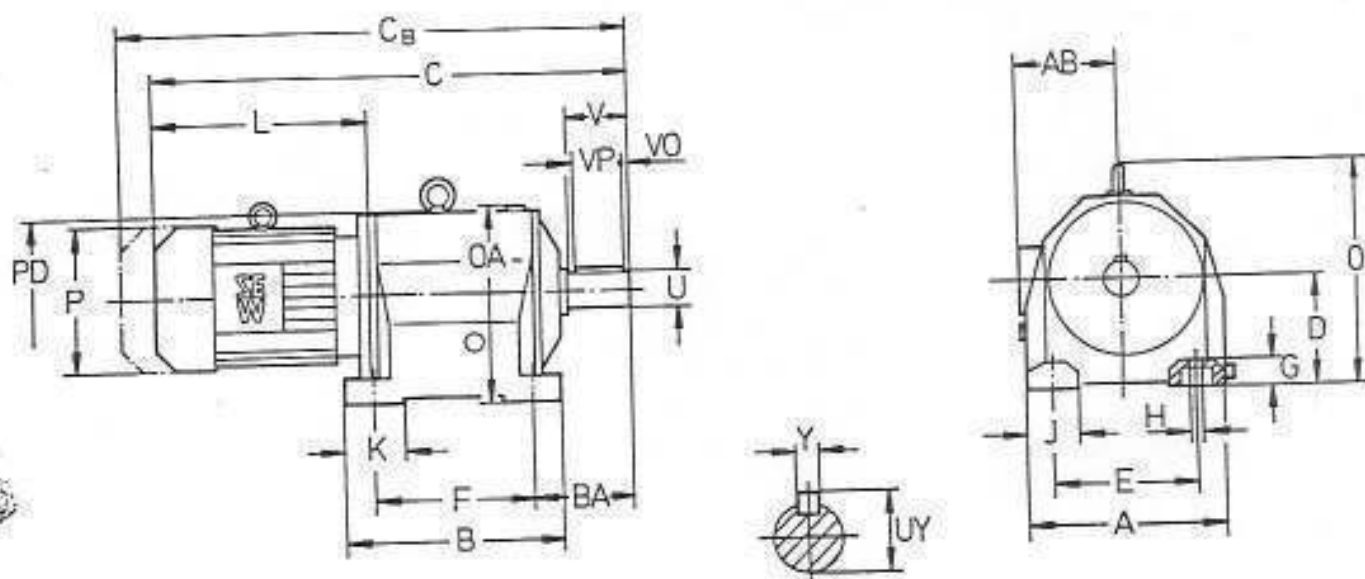


Parallel (Helical) Gearmotors Foot Mounted

DIMENSION SHEET

04 085 08 US

CERTIFIED DRAWING
THESE DRAWINGS ARE SUBJECT
TO THE COMPANY'S TERMS
AND CONDITIONS OF SALE



Refer to the Mounting Positions section of this catalog for specifying desired mounting position and location of conduit box and cable entry. If no mention is made on the order the unit will be shipped per B3 mfg., conduit box at 0°, cable entry at normal. The above shows the conduit box at 180°. Dimensions C₀ refer to brake motors. Eyebolts can be removed. Eyebolts are supplied only on motor sizes DV132M and up.

FRAME SIZE	DIMEN	A	AB	B	BA	C	C ₀	D	E	F	G	H	J	K	L	O OA	P	PD	U V	VO VP	UY Y	Confr DIN 332
DT80...	in	11.42	5.43	12.20	5.51	24.09	26.50	7.09 36	8.46	10.24	1.77	.71	2.85	3.54	9.33	14.21	5.71	9.84	2.125 90	.39	2.35	-
DT90...			6.73			24.84	28.11								10.08		7.76					
DT100...			6.89			26.81	30.08								12.05		8.70					
DV112M			7.40			28.23	31.30								13.48		10.83					
DV132S			9.21			30.00	33.07								15.24							
DV132M						30.79	35.20								16.02							
DV132ML						33.15	37.56								18.39							
DV160M						35.04	41.06								20.28		12.44						13.03	3.94	3.15	.500
DV160L	10.75	612	673	237	361	145	50	10	53.5	DIN												
DT80...	138	631	714	256	221	197																
DT90...	171	681	764	306		250																
DT100...	175	717	795	342																		
DV112M	188	762	840	367																		
DV132S	234	782	894	407																		
DV132M		842	954	467																		
DV132ML		890	1043	515	316	331	100	80	14													
DV160M																						
DV160L	273																					

FRAME: R83 DT90S6 CERTIFIED FOR: SEW Corp ORDER: R-12392
 ITEM: 1 HP: 1 RPM: 4.5 PH. 5 HZ: 60 VOLTS: 230/440 GEAR DATA: 169.49:1 BRAKE DATA: -
 EURODRIVE SALES ORDER: 8555236 APPROVED BY: J. Allen 1/9/91

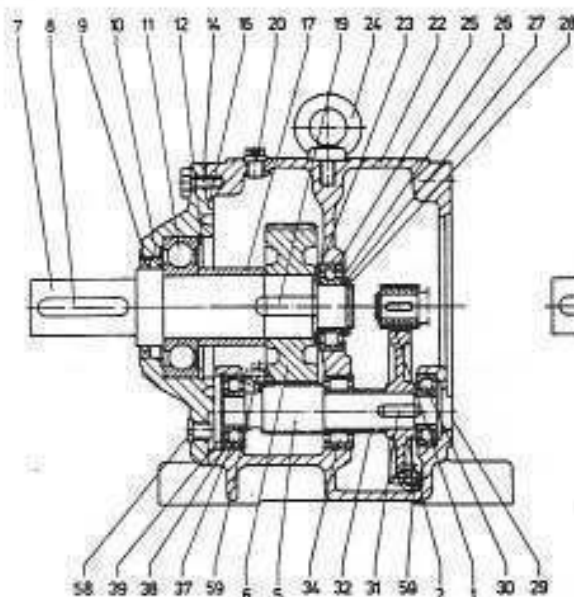


Parallel (Helical) Reducer

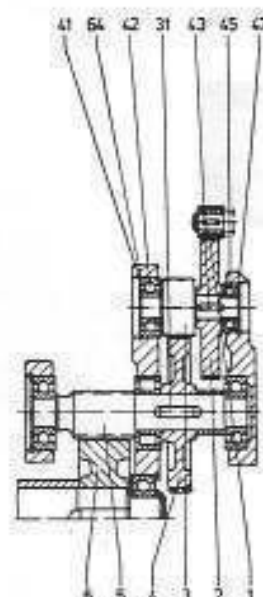
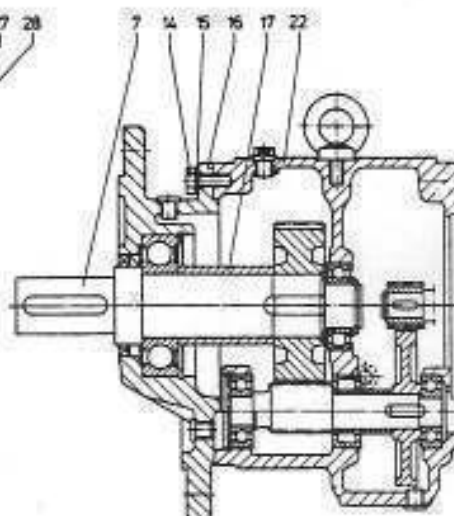
① R 82/83A ② RF 82/83A

PARTS LIST

01 328 14 US



2-gear stages



3-gear stages

When ordering parts, please supply nameplate data with serial number or S.O. number, model number, description of part and part number. All gears are stamped with a part number.

For motors, input covers, variable speed units, housings and adapters attached to the input side, refer to the respective parts list.

X = as required

Item	Part Name	Description	Part No.	Qty.
22	Gear Case ①		116 179 2	1
20	Breather Plug	M12x1.5mm	010 467 1	1
19	Key	B16x10x45mm	013 479 1	1
17	Spacer ②		118 007 9	1
17	Spacer ①		116 006 0	1
16	Output Flange	350mm Dia.	115 928 3	1
16	Output Flange	300mm Dia.	115 926 7	1
16	Output Cover		115 924 0	1
15	Lockwasher	B12mm	010 993 2	8
14	Socket Head Screw ②	M12x30mm	010 148 6	8
14	Hex Head Screw ① ②	M12x30mm	010 122 2	8
12	Snapring	120x4mm	010 329 2	1
11	Ball Bearing	6311Z	010 528 7	1
10	Oil Seal	A65x90x10mm	010 636 4	1
9	Oil Seal	A365x90x10/12mm	010 664 X	1
8	Key	1/2x1/2x2-5/8 in.	92001008	1
7	Output Shaft ②	2.125 in. Dia.	116 069 9	1
7	Output Shaft ①	2.125 in. Dia.	116 068 0	1
6	Gear			1
5	Pinion Shaft			1
4	Gear			1
3	Pinion Shaft			1
2	Gear			1
1	Pinion			1

Item	Part Name	Description	Part No.	Qty.
64	Shim	42x52x0.3mm	010 399 3	X
64	Shim	42x52x0.1mm	010 375 6	X
59	Drain Plug	M12x1.5mm	011 430 8	3
58	Drain Plug	M12x1.5mm	011 430 8	1
47	Snapring	47x1.75mm	010 318 7	1
45	Ball Bearing	6303	010 507 4	1
43	Key	6x6x18mm	010 012 9	1
42	Ball Bearing	6304	010 508 2	1
41	Snapring	52x2mm	010 319 6	1
39	Snapring	62x2mm	010 321 7	1
38	Shim	50x62x0.3mm	010 400 0	X
38	Shim	50x62x0.1mm	010 376 4	X
37	Ball Bearing	6305	010 509 0	1
34	Roller Bearing	NUP 2206E	012 157 6	1
32	Spacer		116 008 7	1
31	Key	B8x7x25mm	011 055 2	1
30	Ball Bearing	6305	010 509 0	1
29	Gasket		100 878 9	1
28	Snapring	40x1.75mm	010 283 0	1
27	Thrust Washer	S40x50x2.5mm	010 352 7	1
26	Shim	40x50x0.3mm	010 398 5	X
26	Shim	40x50x0.1mm	010 374 8	X
25	Roller Bearing	NUP 208E	013 697 2	1
24	Eye Bolt	M12mm	010 230 X	1
23	Thrust Washer	S45x62x3mm	012 039 1	1
22	Gear Case ②		116 184 9	1



Motor

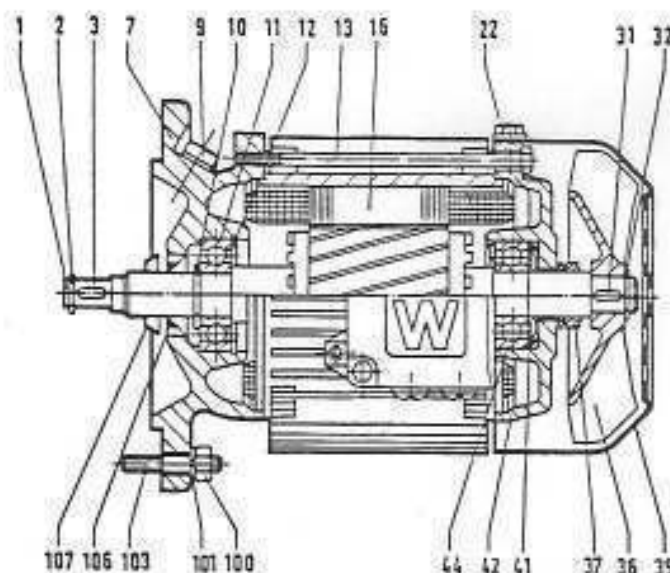
DFT90L & S; DFT100L & LS
For Mounting to Gear Reducers:

PARTS LIST

08 830 37 US

- (1) Size 40 & 50 (2) Size 60 (3) Size 70
(4) Size 80 (5) Size 90 (6) Size 100

Side 1 of 2



When ordering parts, please supply nameplate data with serial number or S.O. number, model number, description of part and part number. For terminal box parts, refer to respective parts list.

[] Parts for Severe Duty motor feature

X As required

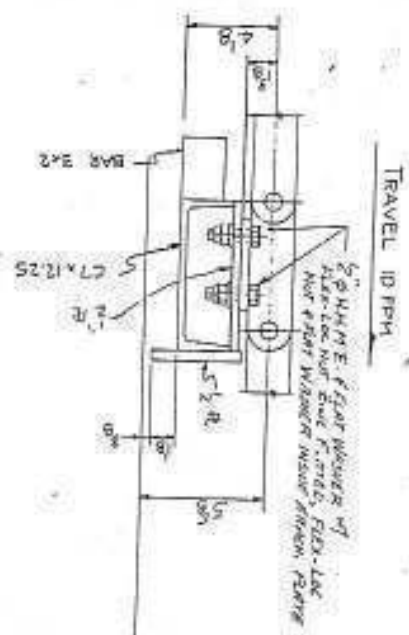
a) For Size 40 & 50 footmounted gear units

7	Flange (2)		135 178 8	1
7	Flange (1)	DFT100	181 406 0	1
7	Flange (1)	DFT90	135 176 1	1
3	Key DFT100	A4x4x18mm	011 438 3	1
3	Key DFT90	A3x3x14mm	010 069 2	1
2	Snapring DFT100	16x1mm	010 268 7	1
2	Snapring DFT90	14x1mm	010 266 0	1
1	Rotor	DFT100LS-8/2	135 474 4	1
1	Rotor	DFT100L-8/2	135 364 0	1
1	Rotor	DFT100LS-4	135 473 6	1
1	Rotor	DFT100L-4	135 363 2	1
1	Rotor	DFT90S-8/2	135 466 3	1
1	Rotor	DFT90L-8/2	135 352 7	1
1	Rotor	DFT90S-4	135 465 5	1
1	Rotor	DFT90L-4	135 351 9	1

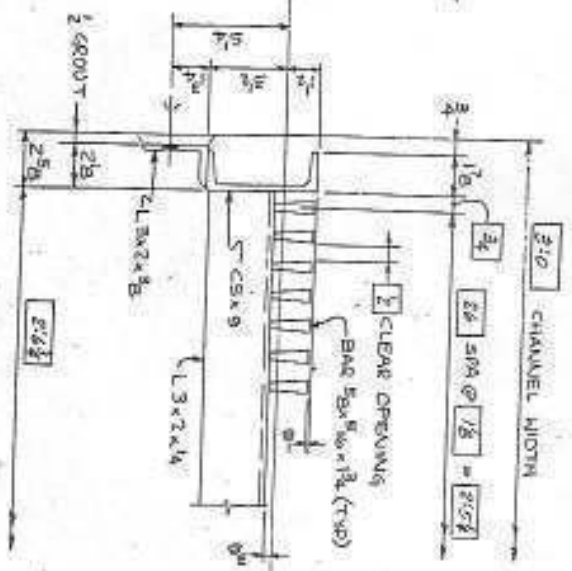
Item	Part Name	Description	Part No.	Qty
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22	Hex Head Screw	M5x7mm Z1	013 630 1	4
16	Stator	a) Flattened		1
16	Stator			1
13	Hex Hd Screw DFT100	M6x205mm	011 871 0	4
13	Hex Hd Screw DFT90	M6x155mm	011 870 2	4
12	Snapring	72x2.5mm	010 322 5	1
11	Ball Bearing	6306C3-2RS	90000528	1
10	Snapring	30x1.5mm	011 462 6	1
9	Plug (5) (8)	M22x1.5mm	011 431 6	1
9	Plug (3) (4)	M12x1.5mm	011 430 8	1
9	Plug (1) (2)	M10x1mm	011 426 X	1
7	Flange (6)	DFT100	135 301 2	1
7	Flange (5)		135 184 2	1
7	Flange (4)		135 182 6	1
7	Flange (3)		135 180 X	1

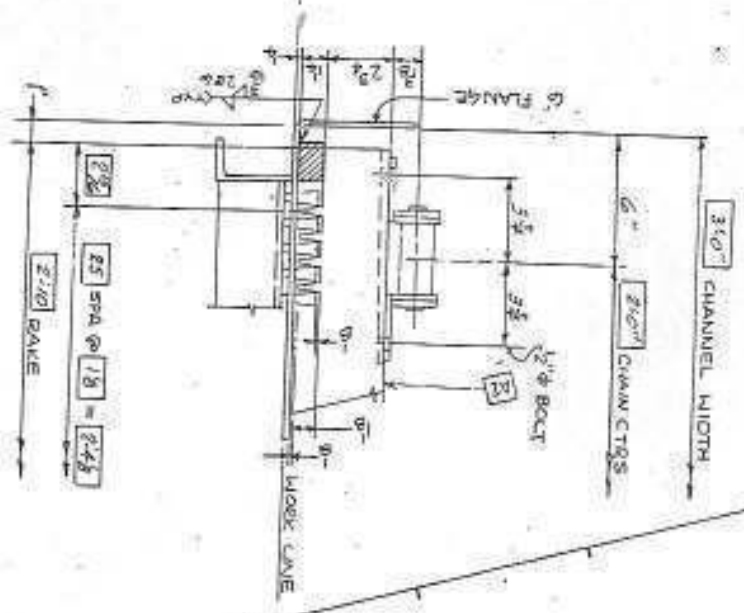
Item	Part Name	Description	Part No.	Qty
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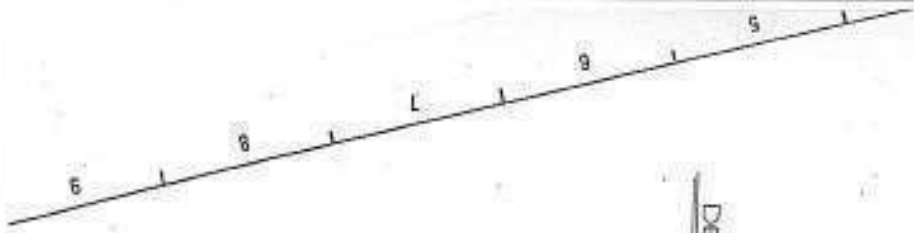
DETAIL - RAKE

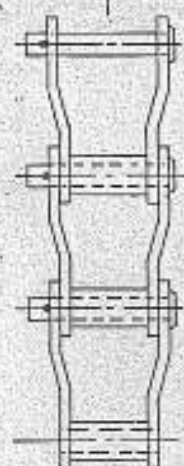


DETAIL - BAR RACK



DETAIL - DEAD FL





TRAVEL

ATTACHMENT (CIV)

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

11 P

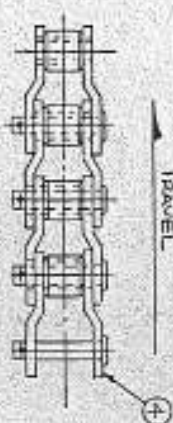
11 P

11 P

6 SPACES @ 11 PITCHES = 66 PITCHES
(NOTE: 6 PITCHES = 6.00")

PLAN OF HS CHAIN

* NOTE: ADJUSTMENT TAKEN
OUT OF THIS SECTION



TRAVEL

PLAN OF DRIVE CHAIN

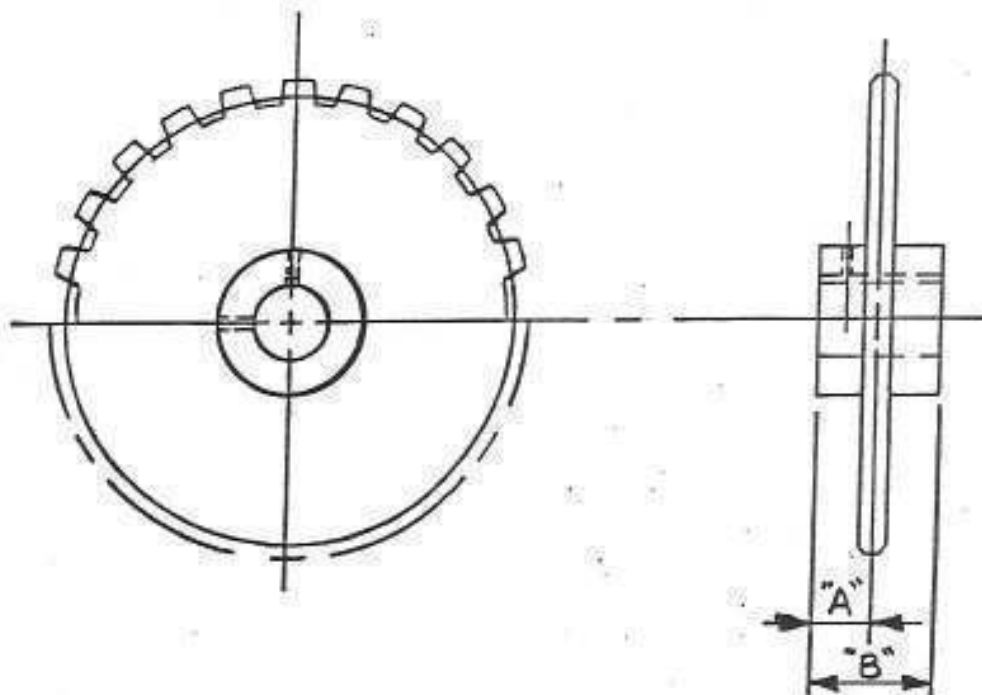
(REF)

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SPROCKET - CAST IRON CHILLED RIM



34 TOOTH, 28.27 PITCH DIA., FOR 882 CHAIN

BORE = $2\frac{7}{16}$ DIA. W/ $\frac{5}{8}$ X $\frac{5}{16}$ KEYWAY & 2 SET SCREWS @ 90°

A = $1\frac{3}{4}$, B = $3\frac{1}{2}$

375 BHN X $3\frac{1}{16}$ DEEP

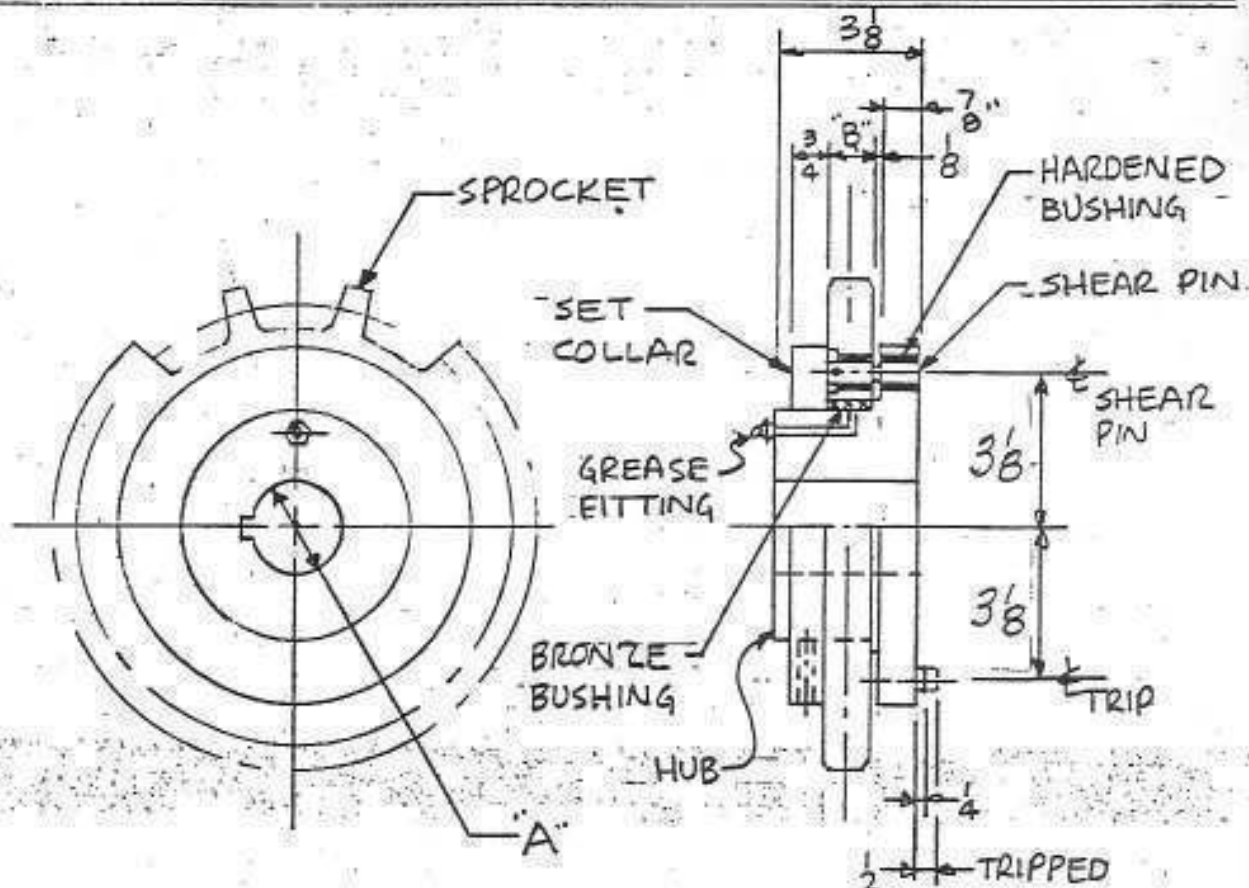
OBJECT NO.: 8912008 DWG NO.: E1 ITEM NO.: 2

PROJECT NAME: CONOVER N.C. SHEET 4 OF 50

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748 B GREENCREST DRIVE
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SHEAR PIN SPROCKET W / TRIP STD NO. 40521-1



CHAIN: 882

11 TOOTH, 9.24 PITCH DIA

A = 2 1/8 ϕ BORE W / 1/2 x 1/4 KEYWAY

B = 1

SPROCKET: CAST IRON CHILLED RIM
375 BHN x 3/16 DEEP

SHEAR PIN NO. 7 RATED @ 7220 [#]

PROJECT NO.: 8912002

DWG NO.: EI

ITEM NO.: 3

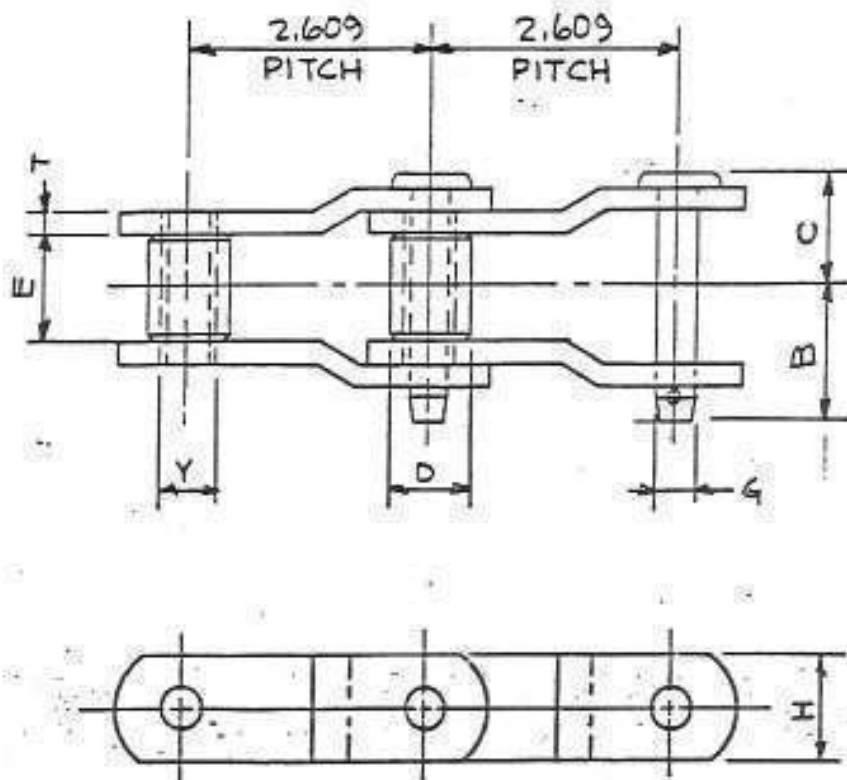
PROJECT NAME: CONOVER N.C.

SHEET 5 OF 50

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ENGINEERING CLASS DRIVE CHAIN

CHAIN NO.	B	C	D	E	G	H	T	Y	AVERAGE* ULTIMATE STRENGTH	MAX WORKING LOAD *	WT* PER FT
882	1 7/16	1 1/4	7/8	1 1/8	.438	1 1/8	1/4	5/8	26000	2500	3.6

STEEL THIMBLE ROLLER, OFF-SET SIDE BAR, COTTER CONST.
*VALUES IN LBS, ALL DIMENSIONS IN INCHES

OBJECT NO.: 8912002

DWG NO.: E1

ITEM NO.: 4

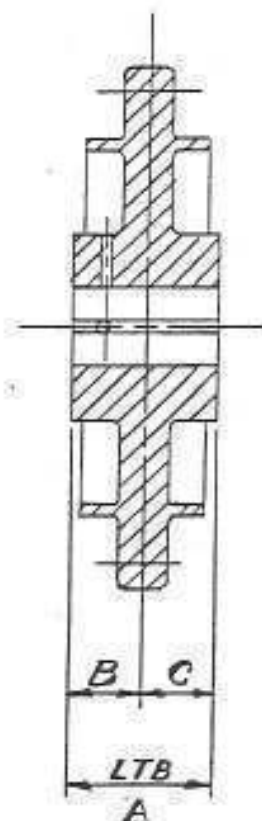
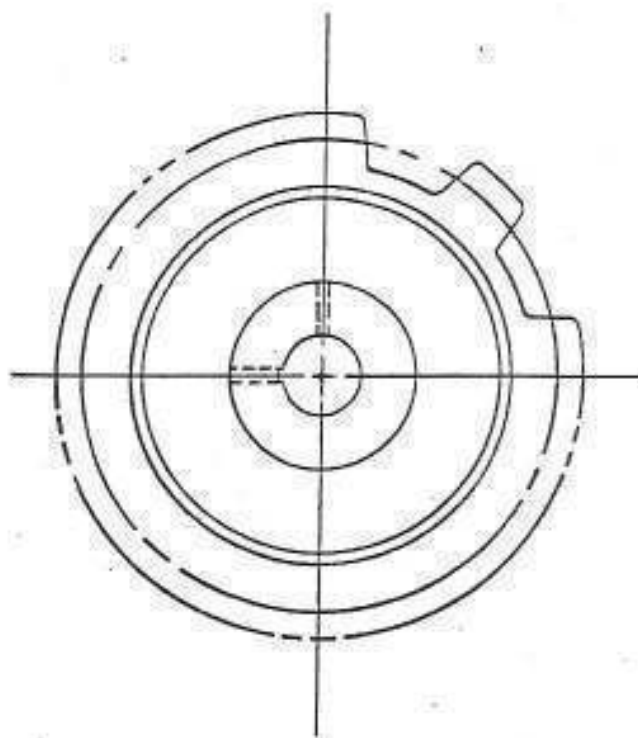
PROJECT NAME: CONOVER N.C.

SHEET 6 OF 50

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10 Tooth 19.58 Pitch dia
Bore $2\frac{7}{16}$ " dia w/ $\frac{5}{8}$ x $\frac{5}{16}$ keyway

2 Setscrews @ 90°

A = $3\frac{1}{2}$

B = $1\frac{3}{4}$

C = $1\frac{3}{4}$

Chain Saver Rims

Chain: WS 132

JECT NO.: 8912002

DWG NO.: E1

ITEM NO.: 5

PROJECT NAME: CONOVER N.C.

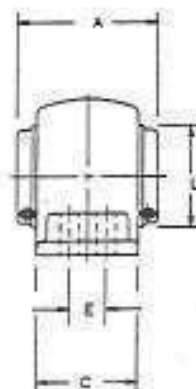
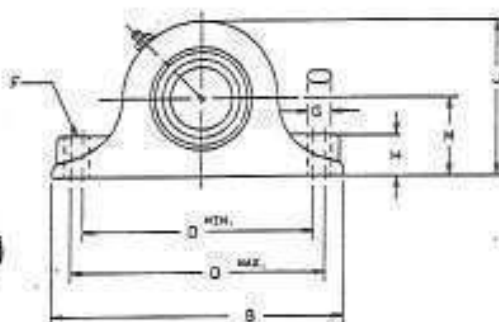
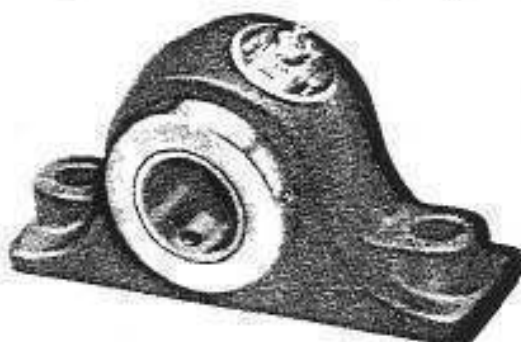
SHEET 7 OF 50

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Pillow Blocks with Tapered Roller Bearings



Shaft Size	A	B	C		D				2-Bolt Base		4-Bolt Base		G	H	J	L	M
			2-Bolt Base	4-Bolt Base	2-Bolt Base		4-Bolt Base		2-Bolt Base		4-Bolt Base						
					Min.	Max.	Min.	Max.	F Bolts	E	F Bolts						
1 1/8, 1 1/4	2 1/4	6	1 1/4	....	4 1/4	4 7/8	....	....	1 1/2	....	....	1 1/2	1 1/4	3.24	2 1/4	1 1/2	
1 1/4, 1 1/2	3	7 1/4	2 1/4	....	5 1/4	5 7/8	....	....	1 1/2	....	....	1 1/4	1 1/4	3.93	2 1/4	1 3/4	
1 1/2, 1 3/4, 1 7/8	3 1/4	7 7/8	2 3/4	....	6 1/4	6 7/8	....	....	1 1/2	....	....	1 1/4	1 1/4	4.41	3 1/4	2 1/4	
1 3/4, 1 7/8, 1 7/8, 2	3 3/4	8 1/4	2 1/2	....	6 7/8	7 1/4	....	....	1 1/2	....	....	1 1/4	1 1/4	4.67	3 1/4	2 1/4	
2 1/8	3 3/4	9 1/4	2 1/4	....	7 1/4	7 7/8	....	....	1 1/2	....	....	1 1/4	1 1/4	5.13	3 3/4	2 1/4	
2 1/4, 2 1/4, 2 1/2	4	10 1/2	2 1/4	3 1/2	8 1/4	8 7/8	8 1/4	8 7/8	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	5.61	4 1/4	2 3/4	
2 1/4, 2 1/4, 2 1/4, 3	4 1/2	12	3	4	9 1/4	9 7/8	9 1/4	9 7/8	1 1/2	2 1/2	1 1/2	1 1/4	1 1/4	6.32	4 7/8	3 1/4	
3 1/8, 3 1/4, 3 1/4, 3 1/2	5	14 1/4	3 1/4	4 1/2	10 1/4	11 1/8	10 1/4	11 1/8	1 1/2	2 1/2	1 1/2	1 1/4	2 1/4	7.50	5 1/4	3 3/4	
3 1/4, 4	6 1/4	15 1/4	....	4 1/2	....	....	12 1/4	12 7/8	....	2 1/2	1 1/2	1 1/4	2 1/4	8.50	5 7/8	4 1/4	
4 1/8, 4 1/2	6 1/4	16 1/4	....	4 1/2	....	....	13 1/4	13 7/8	....	2 1/2	1 1/2	1 1/4	2 1/4	9 1/4	6 1/4	4 3/4	
4 1/4, 5	7 1/4	18 1/2	....	5 1/4	....	....	15 1/4	15 7/8	....	2 1/2	1 1/2	1 1/4	3	10 1/4	7 1/4	5 1/4	
5 1/8, 5 1/4, 6	9	22	....	5 1/4	....	....	17 1/4	17 7/8	....	3 1/2	1	2	3 1/4	13 1/4	9 1/4	6 1/4	
6 1/8, 6 1/4, 6 1/4, 7	10 1/2	26	....	7 1/4	....	....	21 1/4	21 7/8	....	4 1/2	1	2	3 1/4	14 1/4	11 1/4	7 1/4	

◆ This dimension is 13 1/2" for 4-Bolt Base.

PROJECT NO.: 8912002

DWG NO.: E1

ITEM NO.: 6

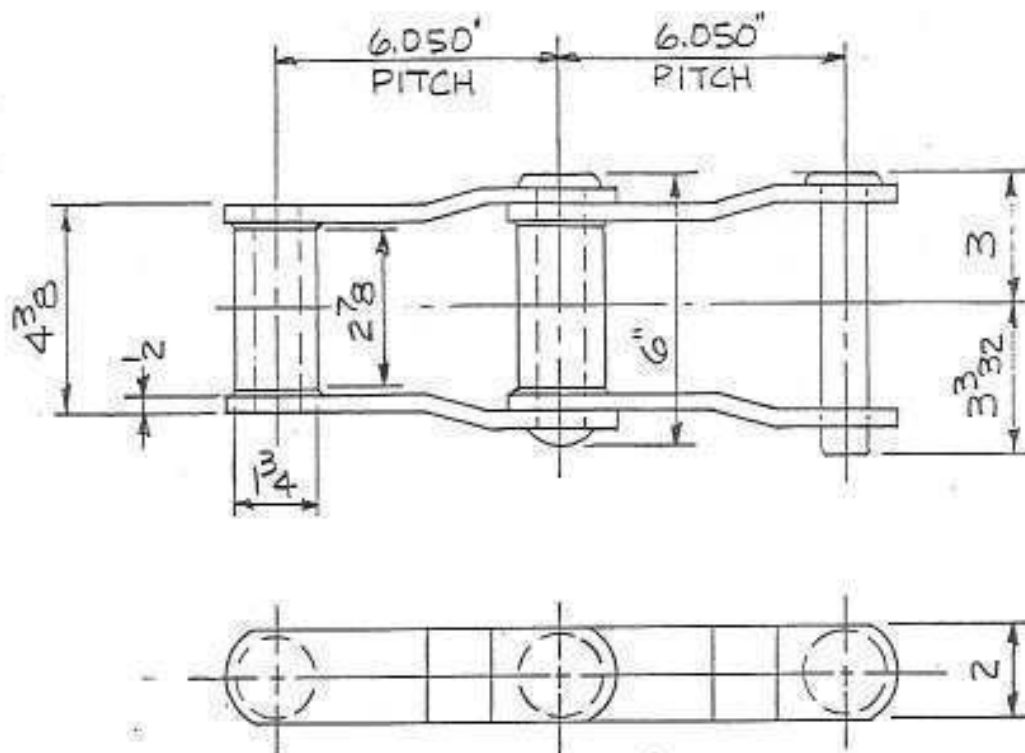
PROJECT NAME: CONOVER N.C.

SHEET 8 OF 50

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WELDED STEEL MILL CHAIN

CHAIN NUMBER	AVERAGE * ULTIMATE STRENGTH	MAX * WORKING LOAD	WT * PER FT
WS 132	84000	13100	13.6

* VALUES IN LBS

OBJECT NO.: 8912002 DWG NO.: EI ITEM NO.: 7

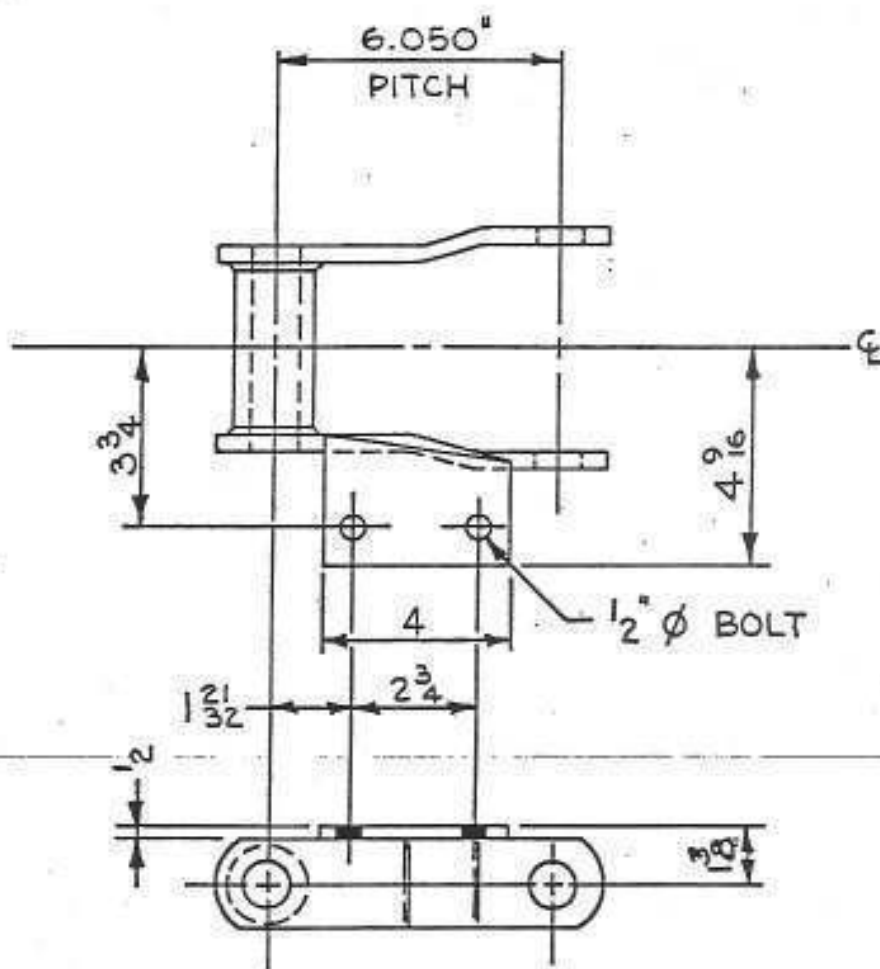
PROJECT NAME: CONOVER N.C. SHEET 9 OF 50

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WELDED STEEL MILL CHAIN w/A2 ATTACHMENT



CHAIN NUMBER	AVERAGE* ULTIMATE STRENGTH	MAX* WORKING LOAD
WS 132	84000	13100

* VALUES IN LBS

PROJECT NO.: 891200Z

DWG NO.: EI

ITEM NO.: 7

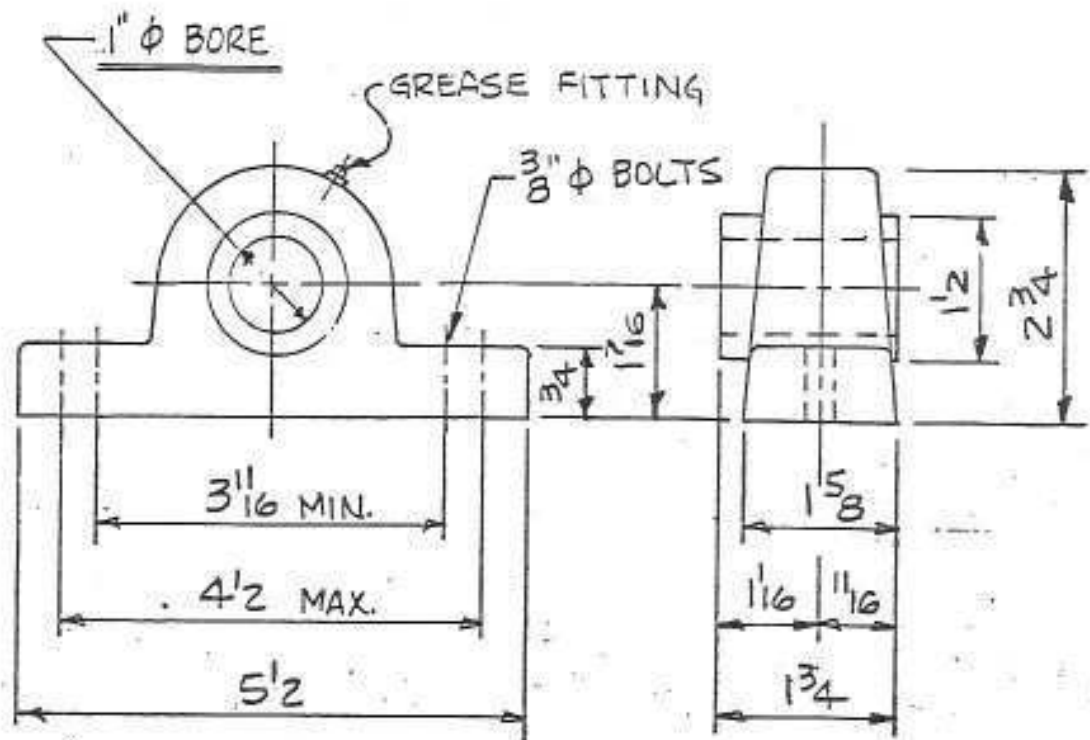
PROJECT NAME: CONOVER N.C.

SHEET 10 OF 50

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TYPE SX PILLOW BLOCK

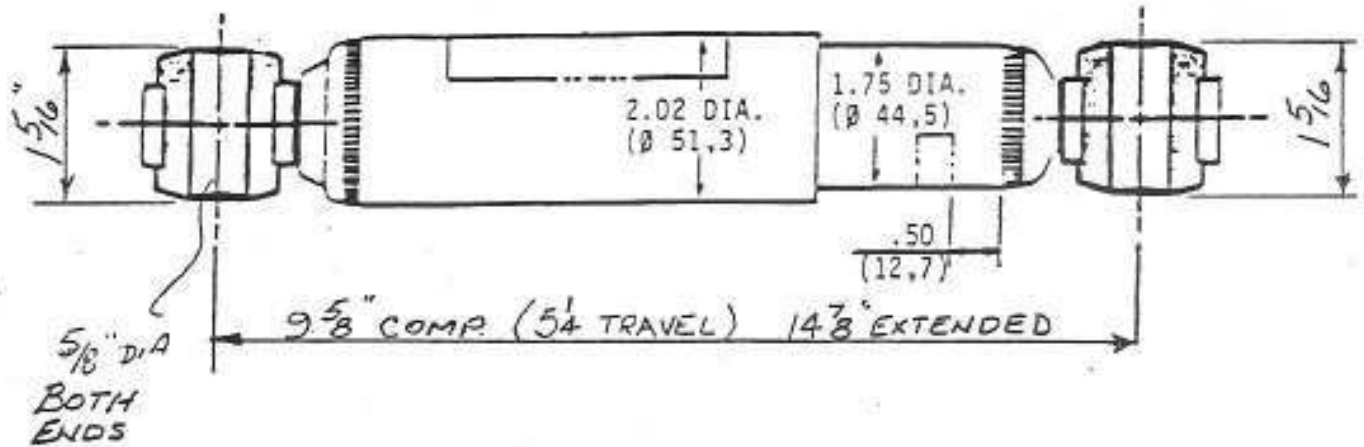
BALL BEARING, GRAY IRON HOUSING

PROJECT NO.: 8912002 DWG NO.: E1 ITEM NO.: 8
PROJECT NAME: CONOVER N.C. SHEET 11 OF 50

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WESTERVILLE, OHIO 43081
(614) 899-2282



SHOCK ABSORBER

PROJECT NO.: 8912002 DWG NO.: E1 ITEM NO.: 9
PROJECT NAME: CONOVER N.C. SHEET 12 OF 50

E & I Corporation

A Member of McNair Corporation

Brooksedge Corporate Center
748 B Greencrest Drive
Westerville, Ohio 43081
614-899-2282

BULLETIN 802T

PLUG-IN STYLE NEMA TYPE 13 OILTIGHT LIMIT SWITCHES

NEMA TYPE 4 WATERTIGHT — NEMA TYPE 13 OILTIGHT

DESCRIPTION — These limit switches can reduce costly downtime when switch replacement is often required. The two circuit base is common to the entire two circuit line — any type of actuator and contact block combination can be plugged in and fastened in minutes. This same feature also applies to the four circuit base. All that is required is loosening the two front captive screws, unplugging the switch unit from the base and simply replacing the unit.

With the switch unit removed, the self-lifting pressure plate terminals are readily available with adequate room for easy wiring. The contacts of the switch provide high snap-through force for more positive switching action. The double break, fine silver contacts are electrically independent but must be wired same phase.

The location of the mounting holes on these switches are the same as the non plug-in type limit switches.

The lever movement contact action for the lever type switches (except the maintained and neutral position types) can be easily converted in the field to clockwise, counter-clockwise or both. Refer to the instruction sheet supplied with the device for proper conversion.

Number of Circuits	NEMA Rating Designation	Maximum AC Contact Rating Per Pole						Maximum DC Rating Per Pole	
		Max. AC Voltage 60 or 50 Hz	Amperes		Continuous Carrying Current	Voltamperes		Voltage Range	Ampere Rating
			Make	Break		Make	Break		
2 Circuit	A600	120	60	6.00	10	7200	720	115-125	0.4
		240	30	3.00	10	7200	720	230-250	0.2
		480	15	1.50	10	7200	720	550-600	0.1
		600	12	1.20	10	7200	720		
	B600	120	30	3.00	5	3600	360	115-125	0.4
		240	15	1.50	5	3600	360	230-250	0.2
4 Circuit	A300	480	7.5	0.75	5	3600	360	550-600	0.1
		600	6	0.60	5	3600	360		
		120	60	6.00	10	7200	720	115-125	0.4
		240	30	3.00	10	7200	720	230-250	0.2

■ Low Operating Torque-Spring Return ratings only.

LEVER TYPE • SPRING RETURN

No. of Circuits

Travel to Operate Contacts
Max. Travel
Travel to Reset
Max. Travel

—NOTE—
Contacts of Catalog Numbers 802T-AP, 802T-ATP, 802T-HP and 802T-HTP operate when lever is moved in either direction.
Contacts of Catalog Numbers 802T-A1P, 802T-A2P, 802T-A1TP, 802T-A2TP, 802T-H1P, 802T-H2P, 802T-H1TP, and 802T-H2TP operate when lever is moved in one direction. See contact target below.

Switch Without Lever

Catalog Number 802T-W3B
Shipping Wt 1 1/2 Oz

LEVER MOVEMENT CONTACT OPERATION				Operating Torque (Max.)	Travel to Operate Contacts (Max.)	Maximum Travel	Travel to Reset Contacts (Max.)	Catalog Number
Clockwise	1 2 2	1 0 2	1 2 2	2.5 In.-Lbs	13°	75°	7°	802T-AP
Counter-clockwise	3 0 4	3 0 4	3 0 4	5 In.-Lbs	9°	75°	3.5°	802T-HP

PROJECT NO.: 8912002 DWG NO.: E1 ITEM NO.: 11

PROJECT NAME: CONOVER N.C. SHEET 13 OF 50