

TECHNICAL SPECIFICATIONS:

1. PRIOR TO ASSEMBLY, ALL MACHINED PARTS MUST BE FREE OF GREASE, OIL, DUST, LINT AND ALL FOREIGN MATTER. SPECIAL ATTENTION SHOULD BE PAID TO THE BEARING SURFACES.
2. PRIOR TO FITTING, ALL LINEAR BEARINGS MUST BE WASHED WITH A CLEANING AGENT THEN OILED LIGHTLY.

BEARING ASSEMBLY PROCEDURES:

1. FIT BEARING RAILS INTO THEIR BASE AND SECURE LIGHTLY WITH SCREWS.
2. INSERT ROLLER CAGES AND CENTER ALONG BEARING RAILS.
3. ADJUST PRELOAD BAR USING SET SCREWS UNTIL PLAY FREE, THEN PRELOAD EACH SET SCREW TO APPROX. 19-38 lbf. TIGHTEN TO APPROX. 1in-lb. INSURE THAT SMOOTH, FREE ROLLING MOTION IS OBTAINED.
4. SECURE SCREWS ON BEARING RAILS TIGHTLY USING A TORQUE WRENCH.

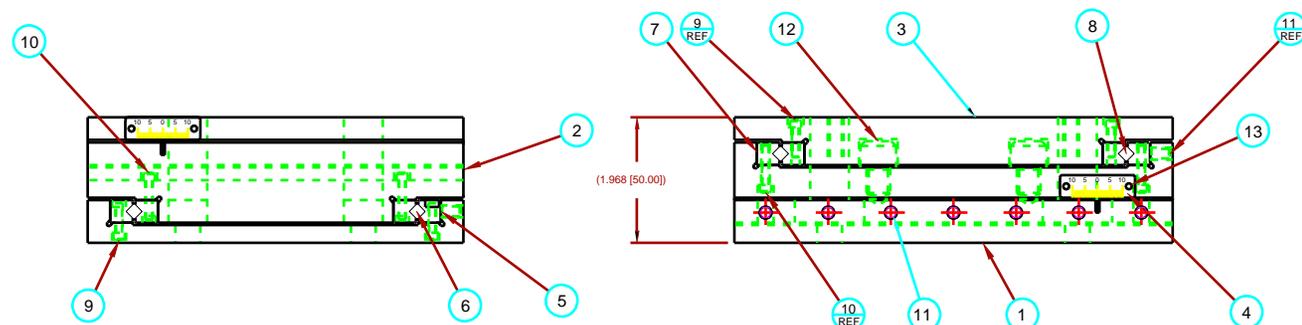
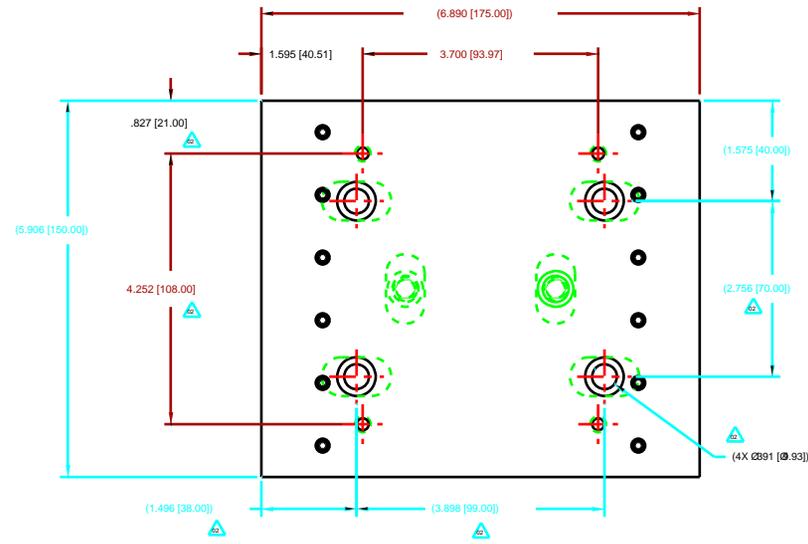
SPECIFICATIONS:

1. LOAD CAPACITY: 500 LBS. [227 kg].
2. TRAVEL RANGE: -1/4 [6.35]
3. STRAIGHTNESS OF TRAJECTORY: 1x10-4 rad per 25 mm.

NOTE:

1. ITEM NO'S 4 (1) ARE (2) BE MOUNTED IN AREAS SHOWN. DRILL (4) Ø62 HOLES X .25 DEEP.
2. ALL DIMENSIONS SHOWN IN [] ARE MILLIMETERS.
3. SOME HIDDEN LINES OMITTED FOR CLARITY.

SCHNEEBERGER, INC.
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ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
13		#0 X .25 LG. TYPE "U" DRIVE SCREW	STN. STL.	4
12		3/8-16UNC-2A X .500 LG. CAP SCREW	304 STN. STL.	2
11		10-32UNF-2A X .31 LG. SET SCREW	304 STN. STL.	13
10		M3 X 16mm LG. CAP SCREW	304 STN. STL.	26
9		M3 X 12mm LG. CAP SCREW	304 STN. STL.	26
8		ROLLER CAGE	KBN4X-21	2
7		BEARING RAIL	RNG-4-150	4
6		ROLLER CAGE	KBN4X-25	2
5		LINEAR BEARING RAIL	RNG-4-175	4
4	P4105090501-820509	T1 GAGE MARKER	304 STN. STL.	2
3	P4105090501-820602	T1 TOP PLATE	6061 ALUMINUM	1
2	P4105090501-820601	T1 MIDDLE PLATE	6061 ALUMINUM	1
1	P4105090501-820501	T1 BASE PLATE	6061 ALUMINUM	1

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
DECIMALS ANGLE
X .XX - .01 (0.25) - .030
XXX - .005 (0.127)

LOG NUMBER: **A0869802**

ARGONNE NATIONAL LABORATORY

ADVANCED PHOTON SOURCE
T1 FRONT END "X"-Y" STAGE
STYLE "B"
ASSEMBLY

DESIGNED BY: J. BARRAZA
ENGINEER: J. BARRAZA
RESPONSIBLE ENGINEER: J. BARRAZA

DATE: 4/14/92
DATE: 10/15/92
DATE: 10/15/92

CHIEF DESIGN ENGINEER: D. SHU
DATE: 10/15/92

PROJECT MGR.:
APPROVED/RELEASED:

REVISIONS:

NO	CHANGE DESCRIPTION	BY	CHKD	DATE
02	ADDED REF DIMENSIONS FOR 4X Ø81 HOLES	KWC	JB	7/29/96
01	REMOVED REPEATABILITY TO MICRONS FROM SPECS	KWC	JB	7/29/96
01	SPECIFICATIONS ADDED	HPC	JB	10/29/91

SCALE: 1:1
SHEET: 1 of 1

DWG NUMBER: P4105090501-820600-02