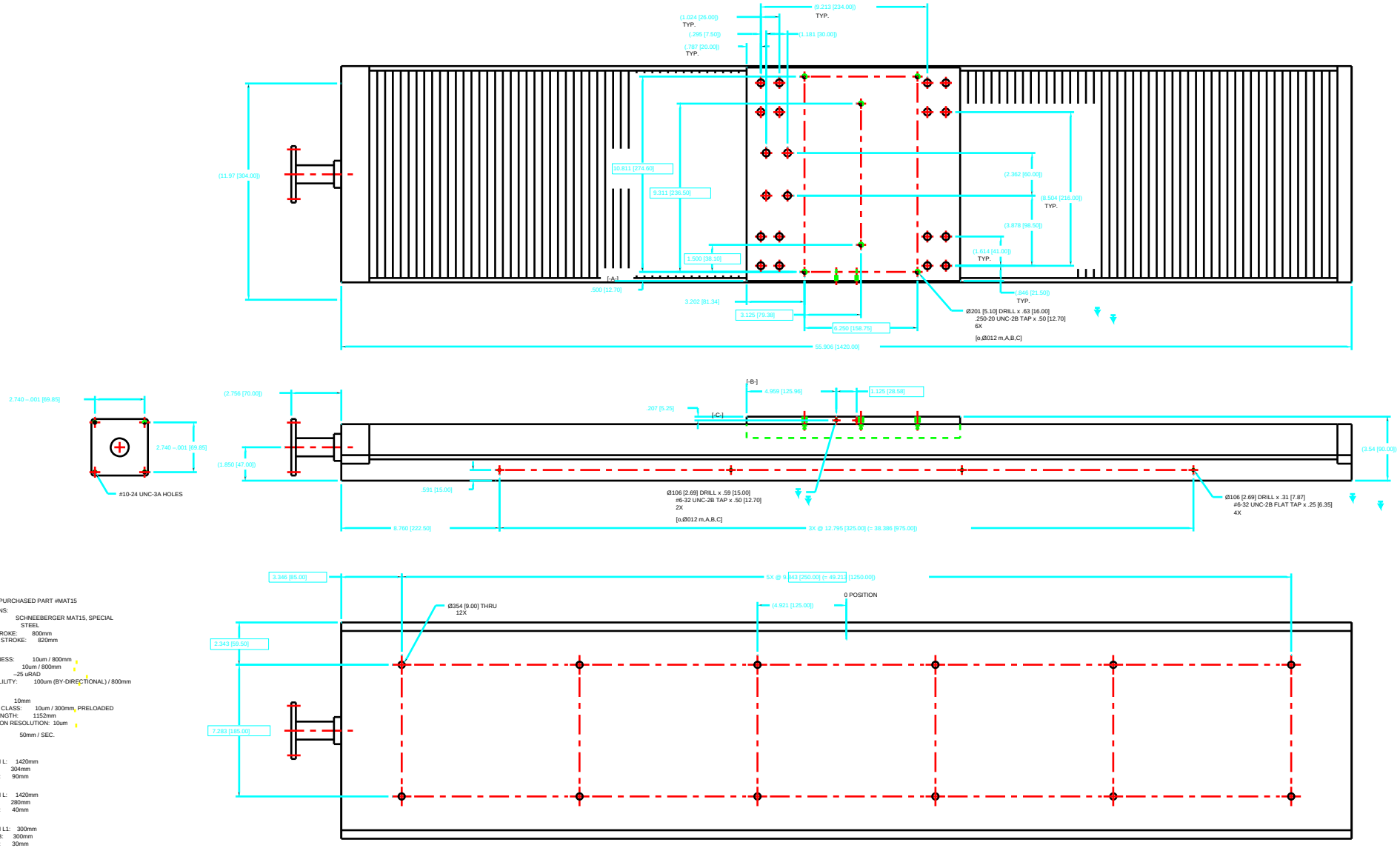

NOTES:

1. MODIFIED FROM PURCHASED PART #MAT15

SPECIFICATIONS:
MODEL: SCHNEEBERGER MAT15, SPECIAL
MATERIAL: STEEL
USABLE STROKE: 800mm
EFFECTIVE STROKE: 820mm

PRECISION:
STRAIGHTNESS: 10um / 800mm
FLATNESS: 10um / 800mm
ROLL: ~25 uRAD
REPEATABLILITY: 100um (BY-DIRECTIONAL) / 800mm

BALLSCREW:
PITCH: 10mm
PRECISION CLASS: 10um / 300mm, PRELOADED
THREAD LENGTH: 1152mm
TRANSLATION RESOLUTION: 10um

MAX. SPEED: 50mm / SEC.

DIMENSIONS:
OVERALL:
LENGTH L: 1420mm
WIDTH: 304mm
HEIGHT: 90mm

BASE:
LENGTH L: 1420mm
WIDTH: 280mm
HEIGHT: 40mm

UPPER:
LENGTH L1: 300mm
WIDTH B: 300mm
HEIGHT: 30mm

RAIL LENGTH: 1360mm

OPTIONS:
LIMIT SWITCHES: 2 END SWITCHES, PROXIMITY TYPE
HOME SWITCHES: 1 LOCATED AT THE END OF TRAVEL, APPROX. 5mm BEFORE LIMIT SWITCH
ENCODER: OPTICAL, LINEAR, INCREMENTAL, FULL TRAVEL RANGE
RESOLUTION: 1um
OUTPUT: TTL COMPATIBLE
COVER: BELLOWS, 47 FOLDS / SIDE
VARIOUS: WITH COUPLING, COUPLING HOUSING AND NEMA SIZE 34 MOUNTING ARRANGEMENT

OPERATING CONDITIONS:
THIS LINEAR TRANSLATION TABLE WILL OPERATE AT 2° INCLINE FROM HORIZONTAL, AND FACING UP. THE LOADING WILL BE 50 LBS. APPLIED NORMAL TO THE MIDPOINT OF THE TABLE. THE AMBIENT OPERATING TEMPERATURE WILL BE APPROXIMATELY 20°C. THE LUBRICATION WILL BE APPLIED DIRECT.

TESTING AND INSPECTION:
THIS TABLE IS TO BE ASSEMBLED AND INSPECTED BY THE MANUFACTURER. STRAIGHTNESS, FLATNESS, AND ROLL ARE TO BE MEASURED AT 20mm INTERVALS MINIMUM OVER THE FULL RANGE OF TRAVEL. AN INSPECTION REPORT IS TO BE SUPPLIED AT THE TIME OF SHIPPING OF THE COMPONENT.

2. DIMENSIONS IN BRACKETS [ ] ARE MILLIMETERS AND ARE FOR REFERENCE ONLY.

SOURCE

SCHNEEBERGER INC.
11 DeANGELO DRIVE
BEDFORD, MA. 01730
PHONE: (617)-271-0140
FAX: (617)-275-6782

ITEM	DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC
		PARTS LIST	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM
TOLERANCES
X ± .015 [.381]
XX ± .005 [.127]
XXX ± .005 [.127]
SURFACE ROUGHNESS 125
DO NOT SCALE DRAWING

DRAWING NUMBER: A2176500

DRAWN BY	R. KRAKORA	1/95
CHECKED BY	C. BRITE	1/95
DESIGNED BY	R. KRAKORA	1/95
ENGINEERING APPROVAL	C. BRITE	1/95
MATERIAL	SEE NOTE 1	

THIS DRAWING IS THE PROPERTY OF
ARGONNE NATIONAL LABORATORY

CHIEF DRAFTSPERSON	DATE
CHIEF ENGINEER	DATE
PROJECT MGR	DATE
MANUFACTURING	DATE

TITLE
ADVANCED PHOTON SOURCE
L7 SOFT X-RAY
EXIT VERTICAL SLIT

LINEAR TABLE
MODIFIED

SCALE 1:2 | SHEET 1 OF 1 | SIZE E | DRAWING NUMBER P4105091507-200001-00

DO NOT SCALE DRAWING

REV	DESCRIPTION OF REVISION	BY	CHKD	DATE