



VACGEN

Assembly Guide

Transax X&Y Bellows Replacement

AS0018

VGS03-02T18



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DISCLAIMER

This Assembly Guide should be used in conjunction with the owner's manual where available, and is intended as a guide only as there may be variations between versions and therefore must be used at the Owner's Risk. For more detailed assistance, please contact our Support desk +44 (0) 1323 379 335 or support@vacgen.com.

HEALTH AND SAFETY

All repairs and services should be carried out by a qualified engineer, using the correct tools and procedures to carry out the repair. VACGEN are not liable for any errors within the assembly guides which may cause inconsistencies during repair.

The Goods, especially chemicals, may be dangerous if not properly used or stored and the appropriate precautions taken. The Customer accordingly agrees that it shall take all such steps as are reasonably practicable or usual to eliminate or reduce any risk to health and/or safety to which use of the Goods may give rise and acknowledges that where the Goods are manufactured to a design supplied by the Customer, the Company will not undertake any research as to the risks to health and/or safety which may arise from use or storage of the Goods. Where the Goods are manufactured to a design supplied by the Customer, the Customer shall comply with all the duties which may be implied at law on a designer and/or manufacturer of the Goods.

Revision	Date	Comment	Initials
1			
2			
3			

Unit A, Swallow Business Park
Diamond Drive, Lower Dicker
Hailsham, East Sussex
BN27 4EL, UK



Transax X & Y Bellows Replacement

NOTE: With care, the Z stage can be removed as a single item, to save time.

IMPORTANT: It is very important that the Transax is well supported on the bench.

1. If cooling is fitted, undo the cooling couplings at sample end.
2. Remove the Sample Holder, noting the Power Wires are connected on the back side of the Sample Holder. The Thermocouples will be left flying.
3. The "Z" bellows and "Z" Slide can now be removed as an assembly as follows.
4. Remove the 6 nuts holding the lower "Z" Bellows Base Flange to the X&Y Table flange. You will need at least two people for the next stage.
5. Remove the cap head bolts holding the "Z" slide to the X&Y table.
6. VERY carefully pull the "Z" Slide assembly away, while the support tube is passing through the bearing in the X&Y Table and support, so the bellows are not damaged.
7. Undo the six screws (11) holding the X&Y Bellows Top Flange to the Top Plate of the X&Y Table, this will now be free and will drop into the X&Y Table.
8. Undo the screws (10) holding the Bellows Can attached to the Base Flange and the bellows will now be free.

Refit in reverse

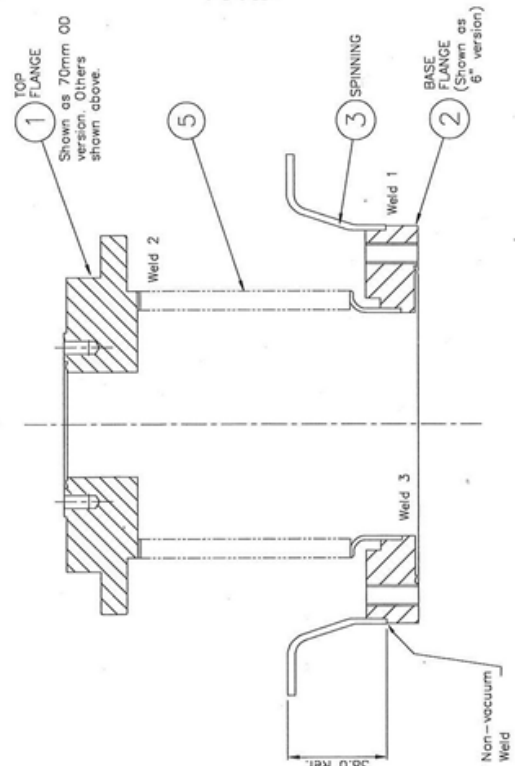
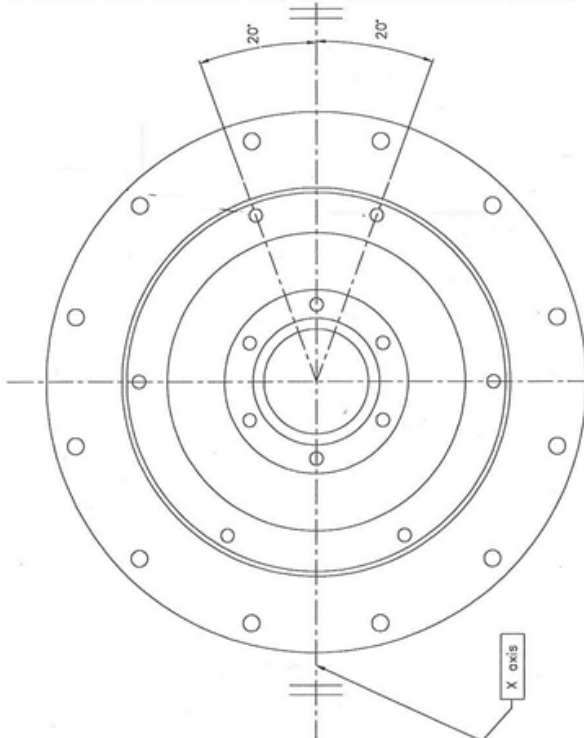
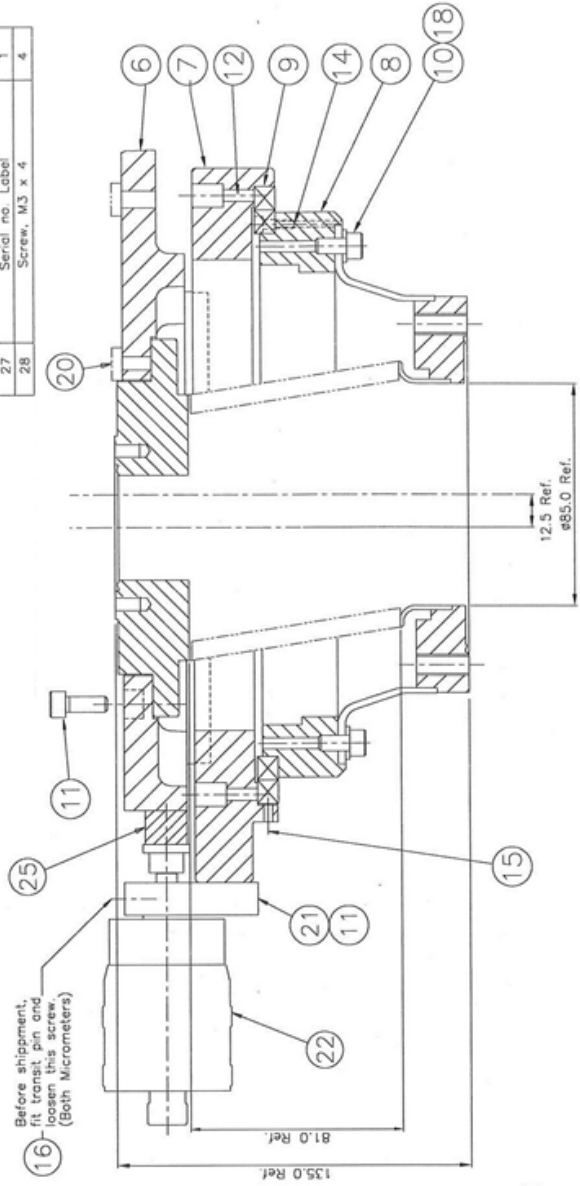
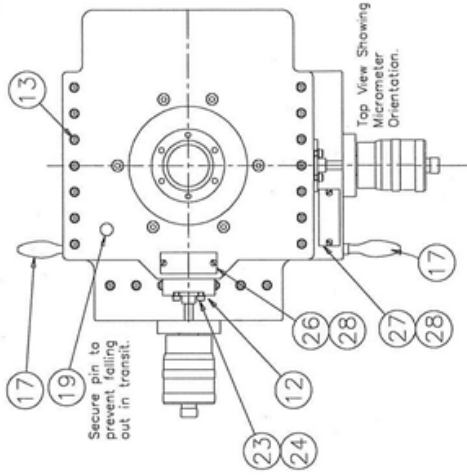
Cooling

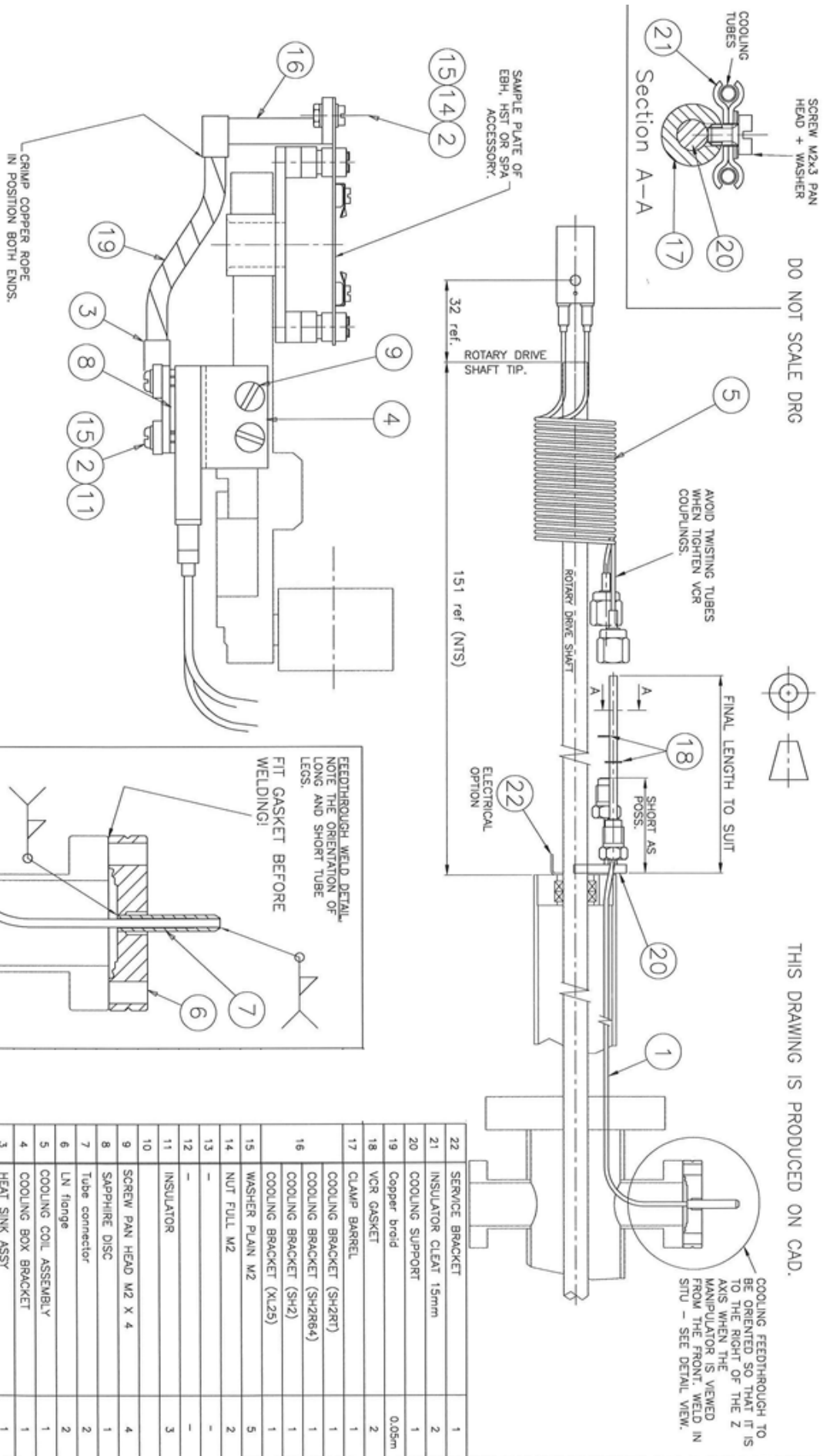
For the cooling you will need The Cajon Gasket set, ZLNCU

The couplings are done up finger tight, then 1-quarter turn with a spanner, taking great care not to twist or kink the tubes.



Item	Used on*	Description	Qty.
1	_T108A_	TOP FLANGE	1
	T108B		
	T108C		
2	_T108_6_	BASE FLANGE	1
	_T108_6_		
3	_T108_6_	SPINNING	1
	_T108_8_		
4			
5	BELLOWS: 400-343x55		1
6	_T108A,B_	TOP PLATE	1
	T108C		
7		UPPER SLIDE	1
8		LOWER SLIDE	1
9		BEARING SLIDE 8650-3175	2
10		SCREW, M6 x 12	12
11		SCREW, M6 x 16	10
12		SCREW, M4 x 16	22
13		SCREW, M4 x 10 (Top plate)	14
14		SCREW, M3 x 10	28
15		SCREW, M4 x 8 Set.	14
16		SCREW, M5 x 16	2
17		Handle (WDS 8175-201)	2
18		M6 WASHER	12
19		TRANSIT PIN (WDS 507-205 75)	1
20		Transax Spacer (see note below)	5
21		MICROMETER MOUNT	2
22		MICROMETER + COUPLING	2
23		Screw, M4 x 8	4
24		Spring Washer, M4	4
25		MICROMETER BLOCK	2
26		VecGen Label	1
27		Serial no. Label	1
28		Screw, M3 x 4	4





SCREW M2X3 PAN HEAD + WASHER

DO NOT SCALE DRG

THIS DRAWING IS PRODUCED ON CAD.

COOLING FEEDTHROUGH TO BE ORIENTED SO THAT IT IS TO THE RIGHT OF THE Z AXIS WHEN THE MANIPULATOR IS VIEWED FROM THE FRONT. WELDED IN SITU - SEE DETAIL VIEW.

DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED	ROUND ALL BORES UNLESS OTHERWISE STATED	SCALE ALL BORES AND SHARP EDGES	SCALE	30	SCALE	NTS	
0 MILLIMETERS FULL SCALE							
MATERIAL-		DRAWN BY	TSF				
FINISH-	CLEAN	DATE	15/4/97	TITLE	LN Cooling: TRANSAX	DRG No	DH-09-20-2
TOLERANCE UNLESS OTHERWISE STATED			VACUUM GENERATORS				
DIM ± 0.1mm	ANGLE ± 0° 30'	Vacuum Generators Series					
DIM ± 0.2mm	SURFACE FINISH 1.6u	Mfg 0424 81191 Fax 0424 81149					
DIM ± 0.1mm		Mfg 8025 VAC GEN 0					

ITEM NO	DESCRIPTION	QTY
1	LN Tubes	1
2	SCREW PAN HEAD M2 X 6	5
3	HEAT SINK ASSY	1
4	COOLING BOX BRACKET	1
5	COOLING COIL ASSEMBLY	1
6	LN flange	2
7	Tube connector	2
8	SAPPHIRE DISC	1
9	SCREW PAN HEAD M2 X 4	4
10	INSULATOR	3
11	INSULATOR	3
12	-	-
13	-	-
14	NUT FULL M2	2
15	WASHER FLAIN M2	5
16	COOLING BRACKET (XL25)	1
17	CLAMP BARREL	2
18	VCR GASKET	2
19	Copper braid	0.05m
20	COOLING SUPPORT	1
21	INSULATOR CLEAR 15mm	2
22	SERVICE BRACKET	1