



AMAT Slit Valve Actuator Overhaul Procedure

AMAT P/N : 0040-75863-003





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➤ Basic Information

Picture



Factory P/N : 0040-75863-003 .

Function : slit valve actuator .

Port Size : N/A .

Port 方向 : 180 .

Driver : CDA .

Driver界面 : N/A .

Key parts : Bellows .

Bellow type : W-type .

Seal type : O-ring .

Application : PVD .



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➤ Overhaul process flow



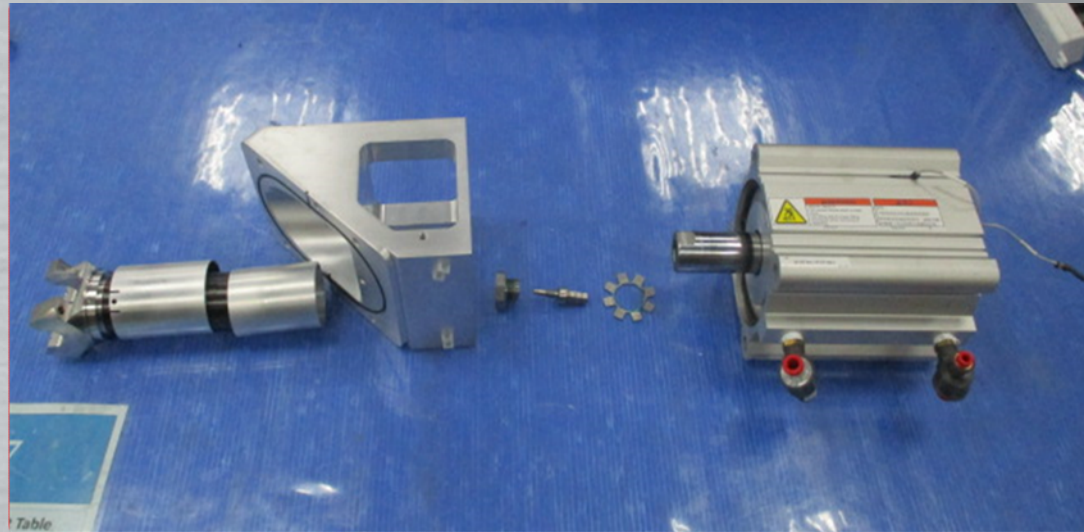
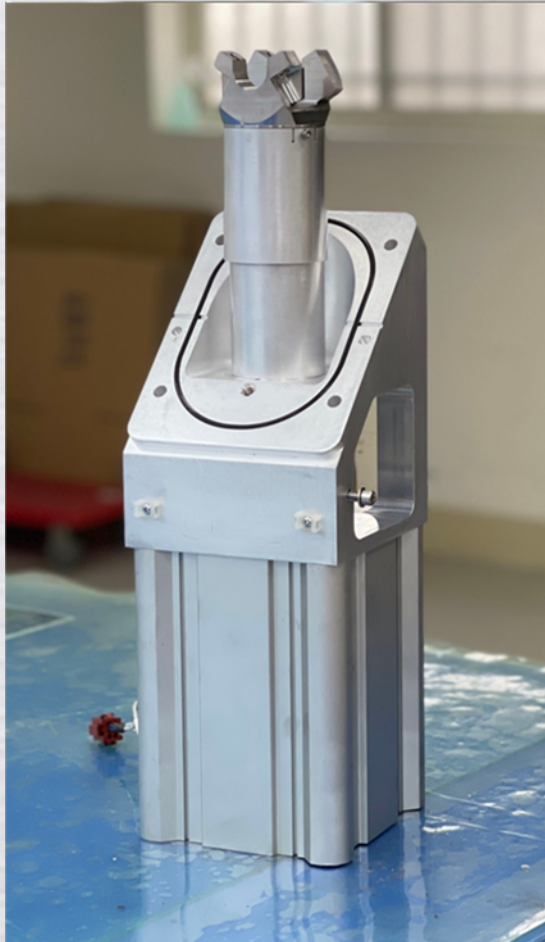


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1. Laser mark & valve disassembly

Actuator Disassembly

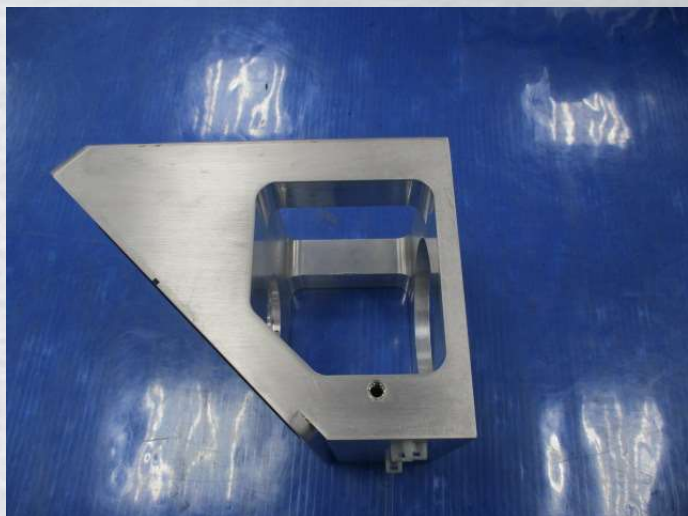




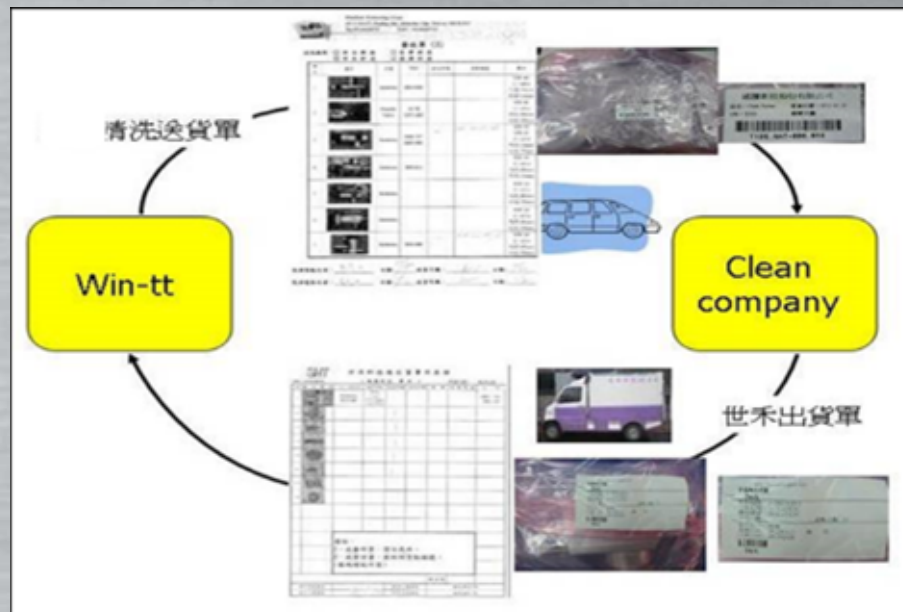
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2. Parts clean by outsourcing



送洗物件



送洗流程

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3. Parts Replacement



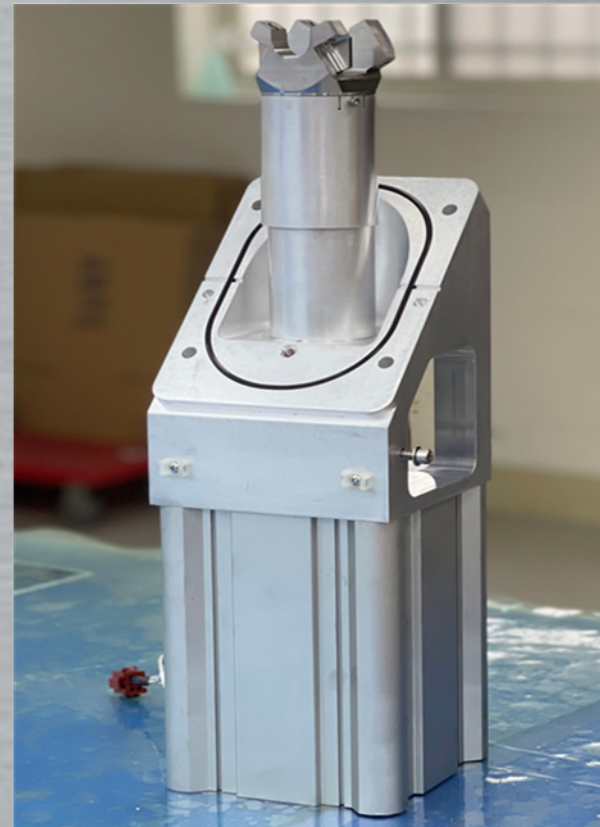
1. All of O-ring
2. All of Packing
3. Bellows assembly
4. Sensor & cable switch (If necessary)
5. CDA port (If necessary)
6. 主軸固定螺絲



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4. Valve Assembly





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5. Valve final test:

Bellows assembly Q.C

軸心&銅套 condition check



Door角度check

Vacuum leakage check by He detector



Vacuum leak test



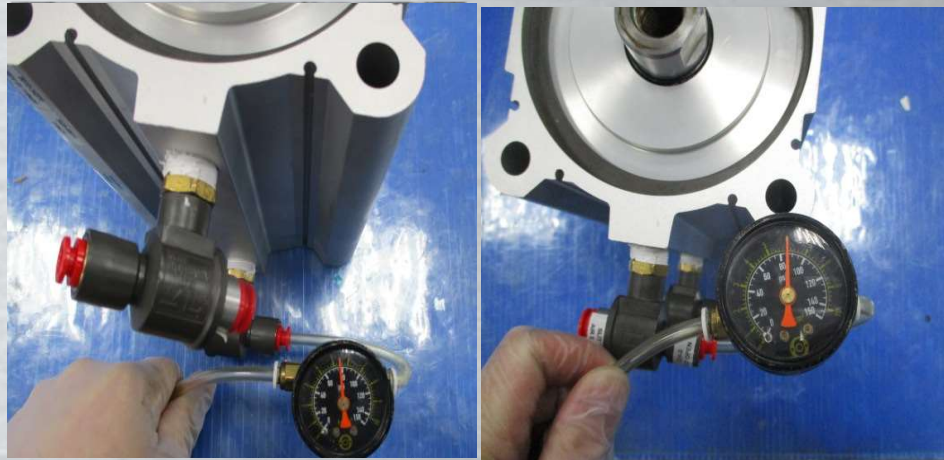
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5. Valve final test:

Cylinder 飽壓測試

◆ 氣壓缸測試: (飽壓測試)



※ 若氣壓缸為正常 (over 80 PSI), 則在壓力計之讀值不可下降 3 PSI (1分鐘以內)

Valve Open/Close Cycle (400 times) & Sensor function Check



Sensor check



door check



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5. Valve final test:

Vacuum test by He detector

測漏機



Vacuum leak test

測試Chamber



Base pressure



Hi氣 check



Leak check



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6. E-Check list

產品編號: SVA-B02 申請者: 簡誌億 申請日期: 2023-04-06
 版別: 1 預估成案版次: 1

數據

項次	(次)分類	單位	分析資料	Data Name	上限	下限	內容
3	Pressure test	Kg/cm2	Y	P-CDAP	30	25	OPEN/CLOSE最小壓力
6	Vacuum test	1.0e ⁻¹⁹ mbar-L/S	Y	P-LEAO	81.28	0.01	Vacuum leakage check <8.128 E-9 mbar l/s
7	Vacuum test	1.0e ⁻¹⁹ mbar-L/S	Y	P-LEAI	10	0.01	Vacuum leakage check < 1E-9 torr-L/sec
8	Pressure test	psi/min	Y	P-CYLD	85.09	75.65	CVD Cylinder leak rate (飽壓測試)

Check

項次	分類	內容
1	Condition check	Bellow 螺絲鎖緊時，螺帽必須是活動的
2	氣壓缸保壓測試	維持CDA為80psi,並持續測試1分鐘
4	Cycle test	Open to close cycle test 200 times
5	Position Check	Open/close Sensor 定位



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6. Remark



螺絲上膠



設定20N.M鎖緊



使用螺絲固定膠固定

螺絲固定膠



扭力扳手鎖緊



螺絲柱(每次更換)

舊 新