

# MAINTENANCE#1-TUM2 19/10/2022

Location:

GPS: 48.1362410, 11.6017370

TranslaTUM is located at the corner of Einsteinstraße and Trogerstraße (in front of a parking lot for ambulances)

1st Floor, aisle slightly left, room 22.1.33

## INTERVENTION :

	Date	Plaser (mW)	BOOST (%)	Nb Hours (H)	Linéar (V)	Line 1 $\mu$ m (mW)
<i>Installation</i>	25-06-2019	69.8	103.5	/	0.79	4.8
<i>Maintenance#1</i>	19-10-2022	59.8	103.5	368	/	2.11
	After maintenance				0.778	3.20

- ⇒ Beam misaligned in the optical tube.
- ⇒ Short drop of power.
- ⇒ linearization coefficient adjustment

**SOFTWARE :**

	Date	Dilase SOFT	KloeDesign	DFM	DFL Creator
<b>Installation</b>	25-06-2019	2.2.23.3	2.2.0.55	/	1.36
<b>Maintenance#1</b>	19-10-2022	2.2.23.4	2.2.0.56.13.1	1.20	//

**FIRMWARE**

	Date	FOCALE
<b>Installation</b>	25-06-2019	V4.F.2.14.0.A
<b>Maintenance#1</b>	19-10-2022	V4.F.2.20.SB

**PID FOCALE:**

	Vkp	Vki	Vkd	Vfp	Vil	Pil	Pkp	Pki	Pkd	Pfp
<b>CARTE FOC</b>	55	2	0	3	1000	10000	1	0	0	0
<b>Installation</b>	55	30	5	2	500	100	0.1	0.15	0.5	4
<b>Maintenance#1</b>	//	//	//	//	//	//	//	//	//	//
<b>MAJ CARTE FOC</b>	1	2	0.1	2	600	10000	1	0	0	0

**PID XY:**

		Repos						Litho			
		AXE	FR	G	D	I	IL	Acc	Dcc	Acc	Dcc
<b>INSTALLATION</b>	PID V1.2	X	0	0.06	0.9	0.0008	50000	3000	3000	3000	3000
		Y	0	0.05	0.5	0.0008	50000				
<b>Maintenance#1</b>											

	AXE	Speed	Speed reached (mm)	Stability reached (mm)
<b>PID – 02-2012-20-V4</b>	X	10	0.09	0.2
		20	0.35	0.4
		50	0.46	1.7
		100	1.7	4
	Y	10	0.06	0.2
		20	0.2	0.5
		50	1.2	2.3
		100	5	7.2

## **MAINTENANCE :**

⇒ Replacement of the Y motor cable due to a failure on the original one.

Currently the faulty cable is on the X axis because it does not move and does not show the bad contact.

- Disconnecting the Y axis cable
- Disconnecting the X axis cable
- Connection to motor X of the cable previously connected to motor Y
  - Return to initial configuration
- New Y-axis cable connection
- Connection to the Amplifier rack of the new Y cable
- Limit switch detection test with Status 64 software
  - Ok
- False contact detection test on X and on Y
  - Everything seems OK
- 2-axis initialization on Wincontrol
  - Ok
- Initialization from DilaseSoft
  - Ok
- Extraction of the old motor Y-cable
- Cable management for X and Y axis, so that the X cable is not too twisted and the Y cable has enough travel.
  - Ok
- Label of the new cable as Axis SUP.

⇒ Laser beam realignement

- Reticule realignment
- Vignetting of the camera image slightly to the left but OK.

⇒ Rails examination = OK

- Cleaning and oiling

## **OPTICAL TABLE**

Table feet inflation

### **Cleaning of all optical parts**

- Dichro
- Lightning
- Visualisation

## **Mécanics**

Internal screw check => OK

Interior cleaning machine + side plates.

## **Note:**

Installing DFM

Installation new version of Dilase Soft

KD update