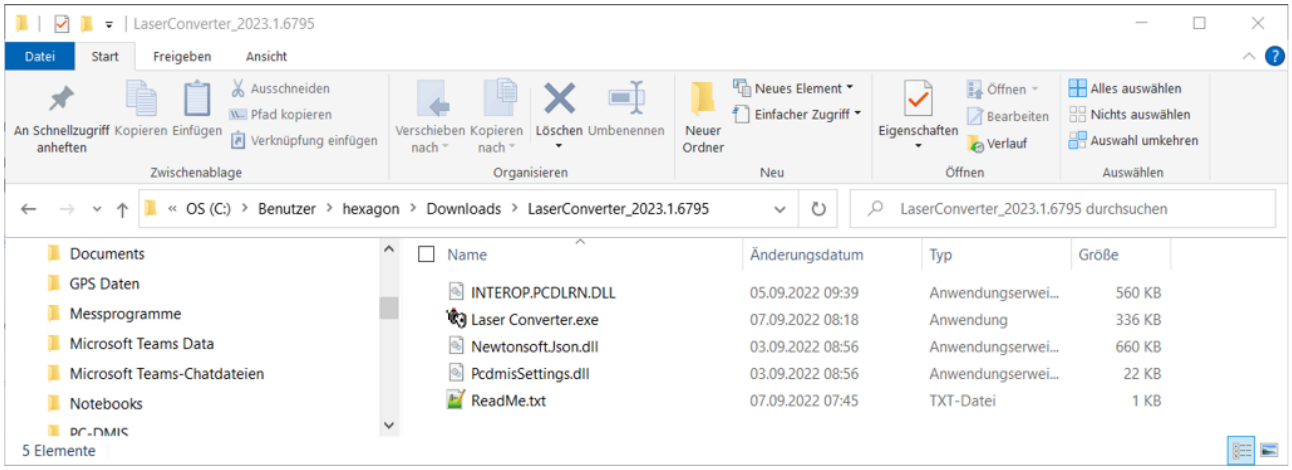
Tactile to Laser Converter

The Tool converts a measurement routine from tactile to laser features. It has been developed by Antionio Cuenca and it is not licensed.

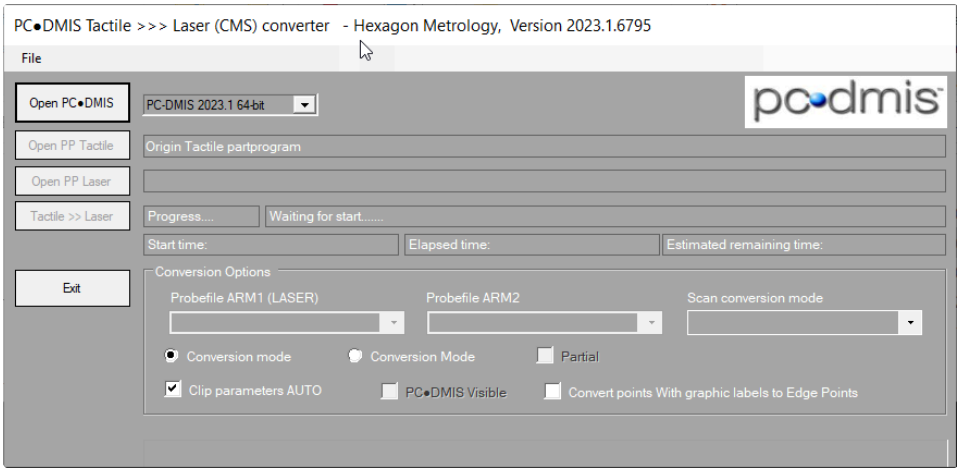
Here's the download link to 7z archive with the application.

Metrology Software Distribution - /Utilities/TactileToLaser/x64>

Unzip the folder and run 'Laser Converter.exe'



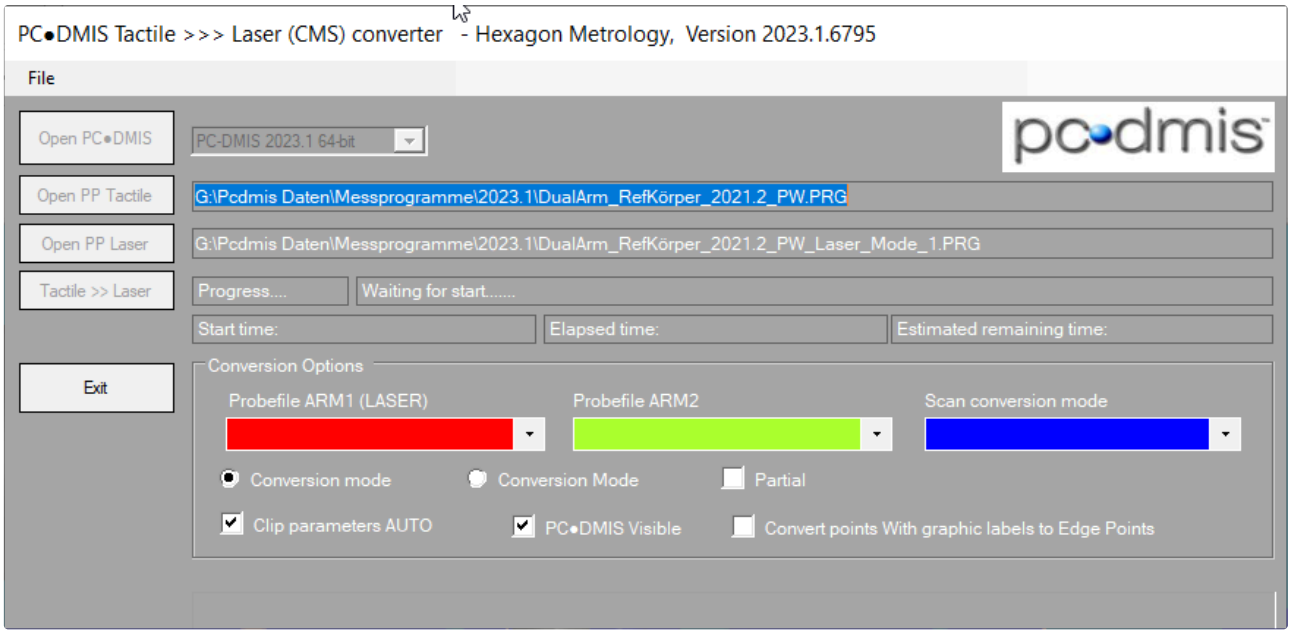
The main dialog will open. Please note that there's File menu from where you can access the Logfile.



The active button are 'Open PC-DMIS' and 'Exit'

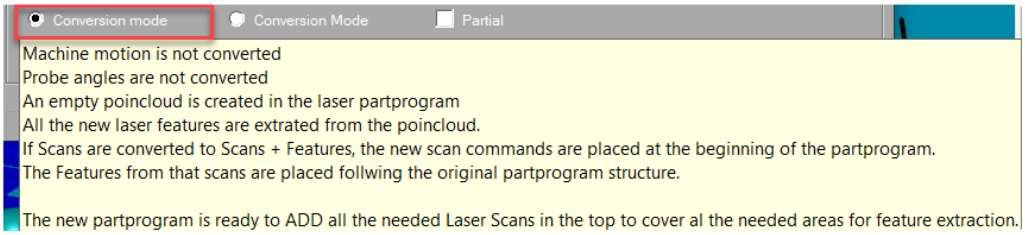
The supported PC-DMIS versions are listed. Select one of it an press 'Open PC-DMIS'

The blinking controls in the ‘Conversion Options’ groubox requires mandatory informations for the conversion. Please select a ‘Probefile ARM1 (LASER) and the ‘Scan conversion mode. If the tactile measurement has 2 arms the also assign a laser probe in the combobox 'Probefile ARM2’.



Select a ‘Conversion mode’. The tooltip shows what the selected conversion option does.

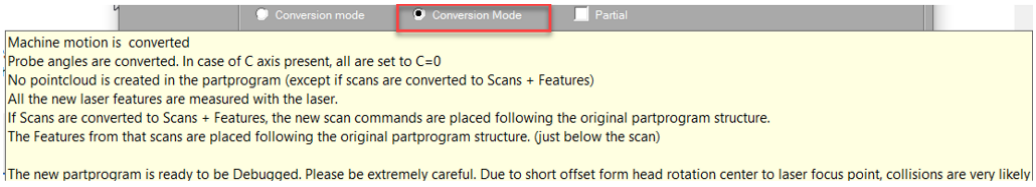
Conversion mode1:



Machine motion is not converted
Probe angles are not converted
An empty pointcloud is created in the laser part program
All the new laser features are extracted from the pointcloud.
If Scans are converted to Scans + Features, the new scan commands are placed at the beginning of the part program.
The Features from that scans are placed following the original part program structure.

The new part program is ready to ADD all the needed Laser Scans in the top to cover al the needed areas for feature extraction.

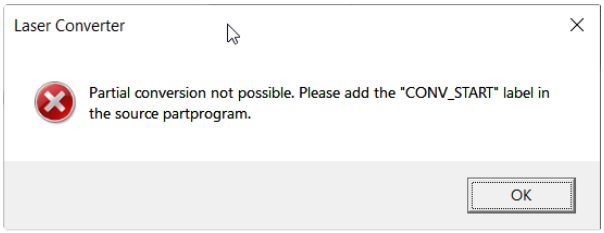
Conversion mode 2:



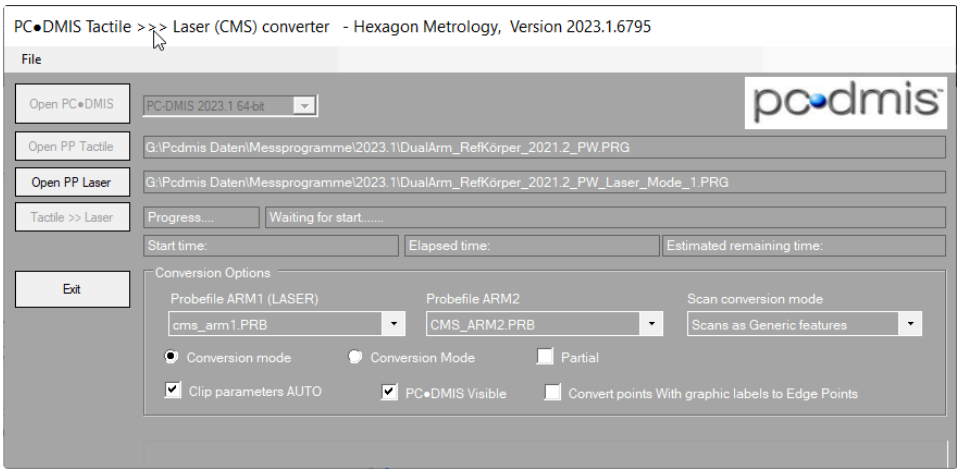
Machine motion is converted
Probe angles are converted. In case of C axis present, all are set to C=0
No pointcloud is created in the part program (except if scans are converted to Scans + Features)
All the new laser features are measured with the laser.
If Scans are converted to Scans + Features, the new scan commands are placed following the original part program structure.
The Features from that scans are placed following the original part program structure. (just below the scan)

The new part program is ready to be Debugged. Please be extremely careful. Due to short offset form head rotation center to laser focus point, collisions are very likely

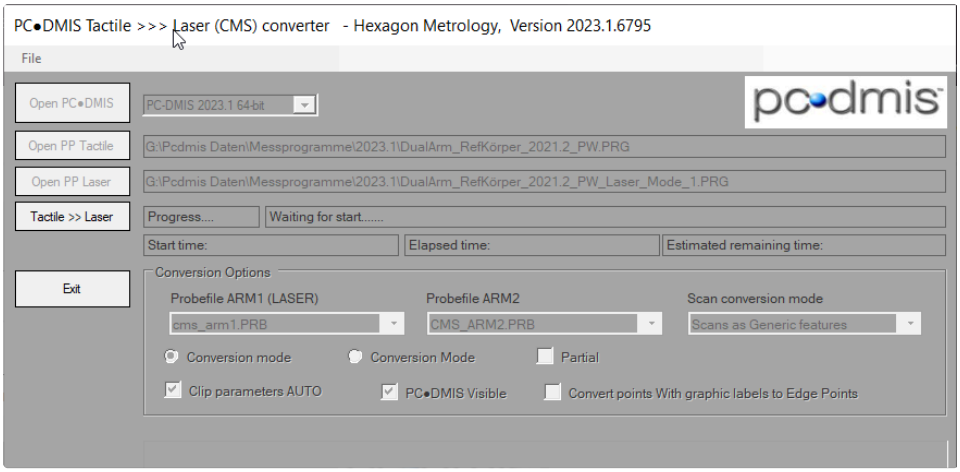
In the case of a partial conversion this message informs that the “CONV_START“ label is required in the source measurement routine.



Once all options are set, the ‘Open PP Laser’ button becomes actice. Press it.



The Laser measurement routine is ceated. Add Label ‘CLOUD' to the source measurement routine if missing.



The Tactile >> Laser’ button becomes actice. Press it.

The conversion will start