

The CAD/CAM Partnership

The leading independent CATIA specialist in the UK

cCLaserPointTable.catvba

A typical OTP Table, with Description but without optional third Axis system columns, is shown below...

DESCRIPTION	OTP No.	TARGET OFFSET	MTOG AXES			JIG AXES			SETTING TOL FRANGE			PERIODIC CHECK TOL FRANGE			ADAPTOR NUMBER
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
INNER FIXED SHROUD MACHINE DATUMS	OTP1	35.000	55.000	45.000	95.000	35.000	360.000	35.000	40.100	40.100	40.100	40.150	40.150	40.150	
	OTP2	25.000	85.000	145.250	85.000	135.250	360.000	25.000	15.0	40.100	40.100	40.150	40.150	40.150	
	OTP3	25.000	145.000	95.125	85.000	85.125	270.000	25.000	15.0	40.100	40.100	40.150	40.150	40.150	
	OTP4	25.000	245.000	215.000	85.000	205.000	170.000	25.000	40.500	40.100	40.100	40.500	40.150	40.150	
INNER FIXED SHROUD SPAR SHELF	OTP5	25.000	65.679	199.877	85.000	189.877	349.321	25.000	40.500	40.100	43.0	40.500	40.150	40.150	
	OTP6	25.000	125.000	210.000	85.000	200.000	290.000	25.000	40.500	40.100	43.0	40.500	40.150	40.150	
	OTP7	25.000	185.000	190.000	85.000	185.000	230.000	25.000	40.500	43.0	43.0	40.150	40.150	40.150	
	OTP10	25.000	355.000	210.000	85.000	200.000	60.000	25.000	40.500	43.0	43.0	40.150	40.150	40.150	

Before the macro completes, an option is provided to write out the table contents to a comma delimited (and automatically named and dated) text file, with the ± symbol automatically removed from tolerance values...

10. Optionally choose to have a CSV File created.

Reference Point (RP) Tables

- The creation of RP Tables is very similar to that of OTP Tables.
- Only Two Axes systems, and a Body containing Points named in the format RPn, are required. This Body may also contain corresponding Lines (also named RPn).

RP Laser Points

RP1

Target Offset

15.00

This macro is a major redevelopment/enhancement of the cCLaserPoints macro, in terms of both execution and functionality...

- ★ Presents windows of the **standard CATIA V5 style**, and incorporates a dual execution capability. The previous execution of compiled Microsoft VisualBasic code has been replaced by standard catvba, to avoid any possible inherent problems of window focus and data control.
- ★ 'Online help', also in the CATIA V5 style, and illustrated above, is available from the standard ? (help icon) top right of the initial menu panel.
- ★ The original **Optical Target Points (OTP)** function now accommodates an optional Description column to group sets of points, and the optional selection of a third reference Axis system (which generates additional x, y and z columns). These new options are fully compliant with existing options to subsequently add or remove points.
- ★ A new **Reference Points (RP)** option provides similar functionality presented in a dedicated "RP Settings Co-ordinates" table format.
- ★ Both the OTP and RP options search for a line corresponding to each point. Where such a line is not found, there is an option to create it. These lines are used to automatically define the 'Target Offset' length, and are projected into each generated view of a drawing to **clarify the location of each point**.
- ★ A new **Enhanced Reference System (ERS)** option creates a table of point coordinates imported from a file (and will also process Jig Reference System points, for example).