

# **CC-TLP Probing System with DC Test CCTLP-DC**

Advanced TLP/HMM/HBM Solutions



Figure 1: CC-TLP Probing System with DC Test. Application example: probing a 300 mm wafer on a ATS-8300G automated test system.

## 1 Features

- CC-TLP probe including DC test
- DC test probes with force sensors
- CC-TLP probe with force sensor (optional)
- CC-TLP probe electrical system ground isolator (optional)
- CC-TLP probe interface adapter (optional)

## 2 Description

The CC-TLP Probing System with DC Test is optimized to be used on the ATS-8300G automated test system. The probing system consists of 3 probe arms:

- CC-TLP probe (left)
- Lift-off DC probe (left)
- DC probe (right)

The right sided DC test probe arm can move independent. The left sided probing system combine the CC-TLP probe and a lift-off capable DC test probe arm on the same XYZmotor of the probe station. The measurement procedure works as follows:

- 1. lift-off left, right DC-probe and CC-TLP probe
- 2. move CC-TLP probe to test position
- 3. contact CC-TLP probe
- 4. zap CC-TLP
- 5. lift-off CC-TLP probe
- 6. move and contact right DC probe
- 7. move and contact (= lift down) left DC probe
- 8. run DC test (spot or sweep)
- 9. lift-off left and right DC probe
- 10. repeat cycle for different DUT at 2.

Both DC probes have touch down force sensors. A touch down force sensor for the CC-TLP probe (optional) is in development<sup>1</sup> and need to be integrated in the system control software and firmware.

<sup>&</sup>lt;sup>1</sup>expected to be available: end 2025



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### **3** Ordering Information

| Pos. | Description  | Part No.  |
|------|--|-----------|
| 01   | CC-TLP Probing System with DC Test                     | CCTLP-DC  |
| 02   | CC-TLP force sensors (optional)                        | FS-06A    |
| 03   | Electrical probe tip system ground isolator (optional) | PA-R-E-FE |
| 04   | Micropositioner interface adapter (optional)           | IF-xxx    |

#### **List of Parts**

The CC-TLP Probing System with DC Test CCTLP-DC consists typically of the following parts:

| Qty. | Description                                   | Part No.          |
|------|---|-------------------|
| 1    | Probe arm RF EAST / STD                       | PA-R-E            |
| 1    | CC-TLP probe                                  | CC-TLP-50-A1      |
| 1    | DC lift-off probe arm including force sensor  | DC-FS-LO          |
| 1    | DC probe arm including force sensor           | DC-FS             |
| 6    | Bracket screws including washer               | UNC #4-40 x 5/16" |
| 6    | Bracket screws including washer               | M3 x 8 mm         |
| 1    | Allen key                                     | 2.5 mm            |
| 1    | Allen key                                     | 3 mm              |
| 1    | Allen key                                     | 3/32 "            |
| 1    | CC-TLP probe force sensor (optional)          | FS-06A            |
| 1    | Electrical system ground isolators (optional) | PA-R-E-FE         |
| 3    | Micropositioner interface adapter (optional)  | IF-xxx            |

#### General

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High Power Pulse Instruments GmbH Stadlerstrasse 6A D-85540 Haar, Germany Phone : +49 (0)89 8780698 - 440 Fax : +49 (0)89 8780698 - 444 E-Mail : info@hppi.de

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