



PLJ 2 Precision Lapping Jigs and PLJ7 Large Format Lapping Jig

- Preset thickness control and automatic parallelism
- Vacuum chuck sample location
- Preset process shutdown
- Precision and versatility
- Large format capability (PLJ7)

Introduction:

Logitech PLJ Precision Lapping Jigs are used to hold multiple "wafer geometry" or slide mounted specimens while they are being processed on Logitech precision lapping machines.

The jigs enable specimens to be lapped automatically to a high degree of parallelism and feature shutdown of the lapping action at a predetermined thickness.

Specimens are held by vacuum to a chuckface. Different sizes of specimens can be held according to the design of the chuckface, which can be selected from one of our standard range or specifically designed to suit your particular application.

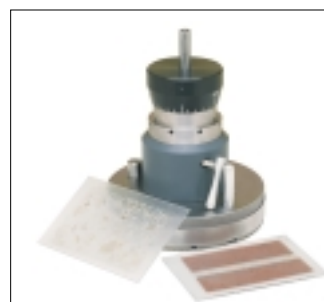
Applications:

PLJ2 and PLJ7 Jigs can be used for a variety of applications where the requirement is to produce a highly uniform specimen with a precisely controlled final thickness. Because of their robust construction, they are suitable for both production and research environments.

Typical applications for the use of a PLJ jig include:



Routine production of Thin Rock Sections with the PLJ2



Production of Large Format Thin Sections with the PLJ7



Backlapping of Silicon Wafers

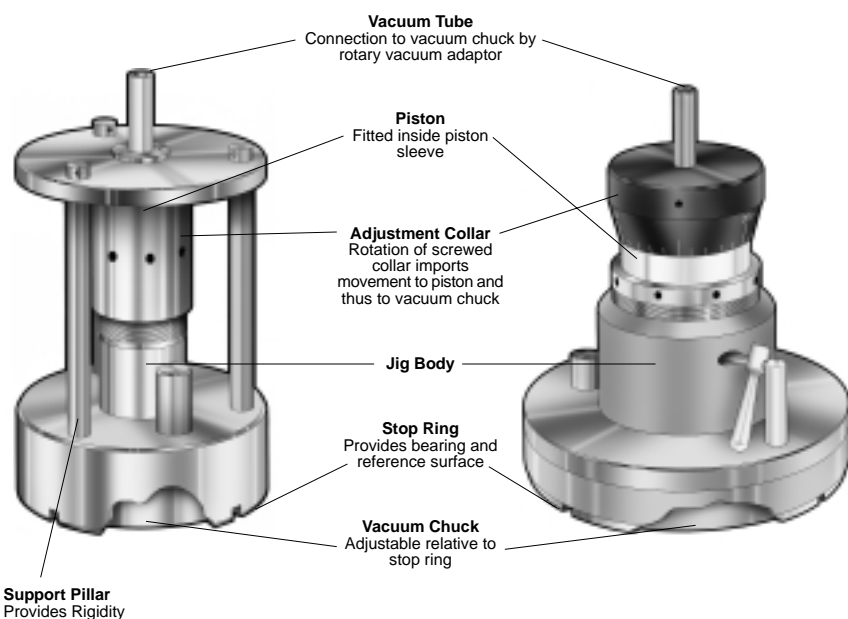
They can also be used for routine lapping of optical components, polymers and calcified tissue sample preparation.

PLJ2 Jigs will accommodate wafers of up to 102mm (4") diameter, which can be lapped to produce parallelism and finished thickness control to within 2 microns. PLJ7 jigs will accept wafers of up to 150mm (6") in diameter. The jigs will also accept multiple specimens of smaller sizes.

Technical Data

PLJ2

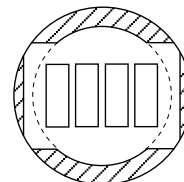
PLJ7



Vacuum Chuck:

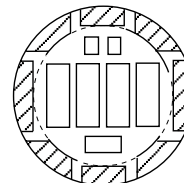
Three standard chuckface patterns are available for the PLJ2:

PLJ2a accepts:
four slides each
25x75mm
OR
two slides each
50x75mm
OR
one slide
75x110mm



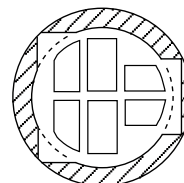
Cat No.: 1PLJ1

PLJ2c accepts:
six slides each
28x48mm
OR
two slides each
25x75 plus
three slides each
28x48mm
OR
one slide
50x75mm plus
three slides each
28x48mm



Cat No.: 1PLJ2

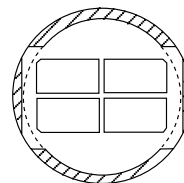
PLJ2f accepts:
six slides each
30x45mm
OR
three slides each
45x60mm
OR
one slide
60x90mm plus
two slides each
30x45mm



Cat No.: 1PLJ3

The PLJ7 has one standard chuckface:

PLJ7 accepts:
one slide
100x150mm
OR
four slides each
50x75mm



Cat No.: 1PLJ71

Chuckfaces are not convertible. Specimen dimensions must be specified at time of order.

Special chuckface patterns to suit your own particular requirements may be supplied on request.



Certificate No. FM 12025

PLJ2 Precision Lapping Jig

Specifications:

Net weight:	5.5kg
Height:	208mm (8.2")
Outside diameter:	127mm (5.0")
Maximum Specimen Size:	As chuckface pattern
Maximum Specimen Diameter:	102mm (4")
Maximum Substrate Diameter:	105mm (4.1")
Achievable Parallelism:	2 microns over 102mm (4")
Thickness Control:	± 2 microns

Ordering Data:

Cat. No.	Description
1PLJ1	PLJ2a Precision Lapping Jig*
1PLJ2	PLJ2c Precision Lapping Jig*
1PLJ3	PLJ2f Precision Lapping Jig*
1ACCS-0100	Rotary Vacuum Adaptor
1TDG1	Two Dial Gauge
1ACCS-1300	Master Flat Reference Block

PLJ7 Large Format Lapping Jig

Specifications:

Net weight:	12kg
Height:	231mm (9.1")
Outside diameter:	188mm (7.4")
Maximum Specimen Size:	152x102mm (6 x 4")
Maximum Specimen Diameter:	152mm (6")
Maximum Substrate Diameter:	167mm (6.6")
Achievable Parallelism:	4 microns over 152mm (6")
Thickness Control:	± 2 microns

Ordering Data:

Cat. No.	Description
1PLJ71	PLJ7 Precision Lapping Jig*
1ACCS-0100	Rotary Vacuum Adaptor
1TDG7	Two Dial Gauge (178mm, 7" diameter)
1ACCS-1300	Master Flat Reference Block

*See diagrams for full details of standard chuckface patterns



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