The dramatic increase in the level and complexity of cleanliness and automation requirements in Semiconductor Fabs, requires wafer cassettes that offer a reduction in particle generation and improved mechanical interface capabilities with automated material-handling systems (AMHS's) and process tools.

WAFER CASSETTE

Unique Stainless Steel Solutions

Palbam Class Stainless Steel cassettes have the following properties:

• Non contaminating
• Non deforming
• Highly accurate dimensions - robotic suitability
• Withstands baking processes up to 400°C
• Designed and manufactured to 'Semi' standards
• "H" Bar where stated
• Fully conductive
• Cassette design allows uniform heat distribution over the wafer surface

Stainless steel has excellent stable molecular properties. High surface quality -20RA - is much superior to any petro-chemical material - no out gassing. Stainless steel is much softer than silicon - in the category of Rockwell B.
The cassettes are fabricated from stainless steel 316

4"&5" WAFER CASSETTE

4 inch stainless steel wafer cassette for bake oven. Includes H Bar and slide on cover to prevent wafer exit. 25 slots. Withstand bake temperatures up to 400˚C.
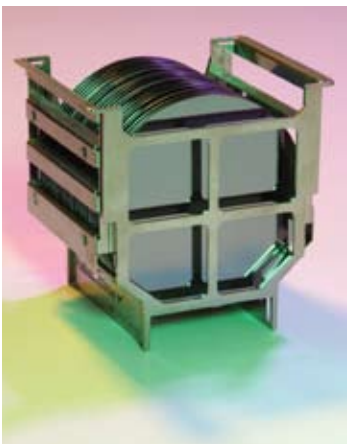
Product	LxWxH (mm)	LxWxH (")	Cat. No.
4" Wafer Cassette	132.5x143x115		**PCPC0101**

5 inch stainless steel wafer cassette for bake oven. 50 slots. Withstand bake temperatures up to 400˚C.

Product	LxWxH (mm)	LxWxH (")	Cat. No.
5" Wafer Cassette	135.5x269x155		**PCPC0121**

6"-150mm WAFER CASSETTE

The Palbam Class™, innovative Stainless Steel wafer cassette is designed to replace standard plastic cassettes, in the semiconductor manufacturing process. The cassette has been designed to SEMI standard. 6 inch wafer bake cassettes with H Bar & either 25 or 12 slots.

Properties:
- non-contaminating.
- non-deforming.
- fully conductive.
- withstands temperatures up to 400˚C.
- with "H" bar.
- dimensions are highly accurate.
- weighs 800 gr.
- designed for both manual and robotic handling.
- fits into standard boxes.
- Fabrication material: 316 stainless steel.
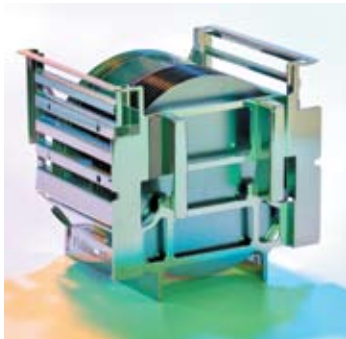- Handle - optional.

Product	LxWxH (mm)	LxWxH (")	Cat. No.
6" Wafer Cassette - 25 slots	178x144x1171		**PCPC0154**
6" Wafer Cassette - 12 slots			**PCPC0155**

8"-200mm WAFER BAKE CASSETTES - With H Bar

PCPC0210
8 Inch round wafers
H bar
25 wafer slots
Robotic or push transfer loading

Product	LxWxH (mm)	LxWxH (")	Cat. No.
8" Wafer Cassette	210x217x220		**PCPC0210**

PCPC0207
8 Inch round wafers
H bar
25 wafer slots
Additional handles
Modeled on specific plastic cassette
Robotic or push transfer loading

Product	LxWxH (mm)	LxWxH (")	Cat. No.
8" Wafer Cassette	233.5x222x220		**PCPC0207**

PCPC0205
8 Inch round wafers
H bar
12 wafer slots
Robotic or push transfer loading

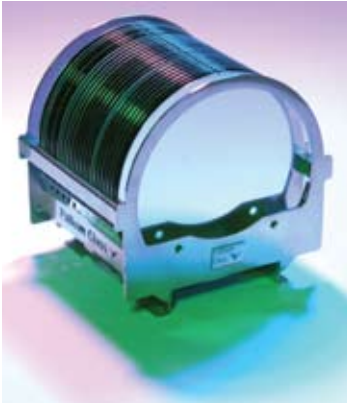| Product	LxWxH (mm)	LxWxH (")	Cat. No.
8" Wafer Cassette	233.5x203x220		**PCPC0205**

PCPC0214
8 inch round wafers
H Bar
13 slots
Robotic or push transfer loading

Product	LxWxH (mm)	LxWxH (")	Cat. No.
8" Wafer Cassette	233.5x220x220		**PCPC0214**

8" - 200mm BAKE CASSETTES - Without H Bar

8 inch round wafers
Without H Bar
25 wafer slots

Product	LxWxH (mm)	LxWxH (")	Cat. No.
8" Wafer Bake Cassette	226x189x1900		PCPC0203
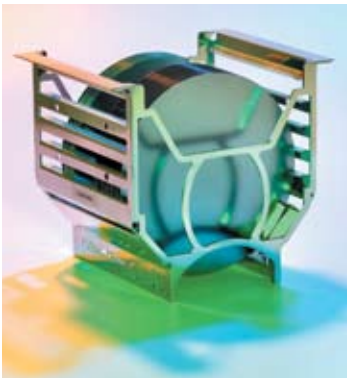
8 inch round wafers
Without H Bar
25 wafer slots
Robotic or push transfer loading

Product	LxWxH (mm)	LxWxH (")	Cat. No.
8" Wafer Bake Cassette	255x202.4x218		PCPC0208

**We offer custom designs
to fit your dimensions**

HANDLE 6" AND 8"

Handle for 6" and 8" cassettes
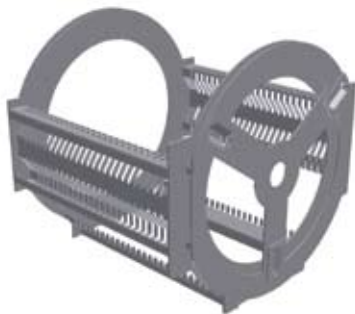
Product	LxWxH (mm)	LxWxH (")	Cat. No.
Handle for 6 inch cassettes			HANDLE-6
Handle for 8 inch cassettes			HANDLE-8

12"- 300mm WAFER BAKE CASSETTES
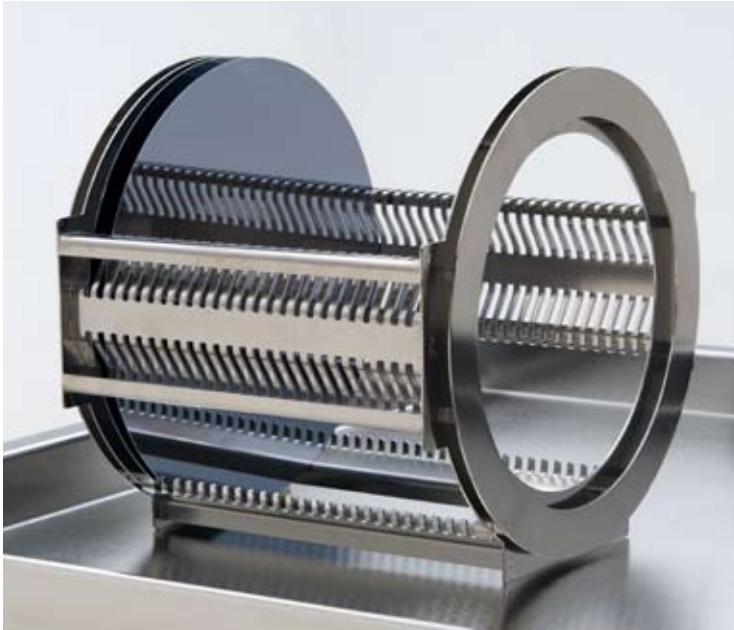
Product	LxWxH (mm)	LxWxH (")	Cat. No.
12" Wafer Cassette - 25 slots	324x293x305		**PCPC0301**

12 inch stainless steel wafer cassette
for bake oven.
25 slots.
Withstand bake temperatures up to
450°C.
Lightweight design - weighs only 3.4 kg.

Features & Benefits

Stainless steel construction allows
cassette to withstand bake temperatures
up to 450°C.
Open design allows even heat
distribution of wafer surface.
Unique design keeps weight down
to 3.4kg.
Dedicated kinematic adapter allows
cassette to be placed on a stage
conforming to SEMI Std.
Fully conductive
Non outgassing.

SEMI Standard E-57 compatible.

Product	LxWxH (mm)	LxWxH (")	Cat. No.
12" Wafer Cassette - 25 slots with kinematic couplings	324X307X305		**PCPC0305**