

PU-2004
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HTC 8020 Series Cleaning Systems Process Racks

Process racks are used to hold device handling products during cleaning in HTC 8020 cleaning systems. Each HTC 8020 holds two racks. Racks are made of stainless steel coated with a fluoropolymer material and are available from stock for many Fluoroware® and other device handling products. Custom rack designs are also available. Contact your local Fluoroware representative for information.

Each process rack is designed to:

- Thoroughly wash, rinse and dry specific products.
- Maximize product throughput.
- Minimize cycle time.
- Ensure no damage to the product being cleaned.
- Reduce potential metallic contamination.

Fluoroware thoroughly tests each new rack design to ensure they meet the above requirements.

Machine Throughput

Machine throughput is the number of a specific product that can be processed by the machine per hour. Each HTC 8020 holds two process racks. The following equation is used to calculate hourly machine throughput:

Machine throughput per hour = (60 min/approximate cycle time) × (products per rack × 2 racks)

Note

Cycle time is an estimate based on standard conditions and should be used only as a guide. Cycle time includes the time it takes to remove and replace racks in the machine, but does not include the time it takes to load and unload products on the racks. Estimated cycle time also affects machine throughput. To achieve stated throughput, duplicate racks must be prepared during the machine cycle. Actual results may vary. Contact your local Fluoroware representative for more information.

Racks by Product Held

PRODUCT HELD	MACHINE CYCLE TIME	PRODUCTS PER RACK	MACHINE THROUGHPUT/HOUR	RACK ORDERING NUMBER
200mm Wafer Carriers				
A192-80M	27 min	8	35	L-1652-FC
A192-81M	27 min	8	35	L-1652-FC
A198-80M	27 min	8	35	L-1652-FC
A198-80MB	27 min	8	35	L-1652-FC
A200 Series	27 min	8	35	L-1664-FC
FA200 Series	27 min	8	35	L-1664-FC
KA200 Series	27 min	8	35	L-1664-FC
PA192-80M	27min	8	35	L-1652-FC
PA195-80M	27 min	8	35	L-1652-FC
PA200 Series	27 min	8	35	L-1664-FC
150mm Wafer Carriers				
A182-60M	27 min	12	52	L-1637-FC*
A182-60MB	27 min	12	52	L-1637-FC*
A182-60MC	27 min	12	52	L-1637-FC*
A182-60MU	27 min	12	52	L-1662-FC
A190-60M	27 min	12	52	L-1637-FC*
A190-60MH	27 min	12	52	L-1637-FC*
A194-60MB	27 min	12	52	L-1637-FC*
A196-60ML	27 min	12	52	L-1637-FC*
A196-60MLB	27 min	12	52	L-1637-FC*
PA182-60MB	27 min	12	52	L-1637-FC*
PA182-60MC	27 min	12	52	L-1637-FC*
PA182-60MU	27 min	12	52	L-1662-FC
PA194-60MB	27 min	12	52	L-1637-FC*
PA194-60MBJ	27 min	12	52	L-1637-FC*
PA195-60M	27 min	12	52	L-1637-FC*
125mm Wafer Carriers				
A72-50M	27 min	12	52	L-1662-FC
A182-50M	27 min	12	52	L-1637-FC*
A182-50MB	27 min	12	52	L-1637-FC*
A182-50MBH	27 min	12	52	L-1637-FC*
A182-50MC	27 min	12	52	L-1637-FC*
A182-50MEB	27 min	12	52	L-1637-FC*
A182-50MEC	27 min	12	52	L-1637-FC*
A182-50MU	27 min	12	52	L-1662-FC
A190-50M	27 min	12	52	L-1637-FC*
A190-50MH	27 min	12	52	L-1637-FC*
A194-50MB	27 min	12	52	L-1637-FC*
PA72-50M	27 min	12	52	L-1662-FC
PA182-50M	27 min	12	52	L-1637-FC*
PA182-50MB	27 min	12	52	L-1637-FC*
PA182-50MC	27 min	12	52	L-1637-FC*
PA194-50MB	27 min	12	52	L-1637-FC*
PA195-50M	27 min	12	52	L-1637-FC*

*The L-1637-FC rack is recommended for these products. They will also fit in an L-1662-FC rack.

PRODUCT HELD	MACHINE CYCLE TIME	PRODUCTS PER RACK	MACHINE THROUGHPUT/HOUR	RACK ORDERING NUMBER
100mm Wafer Carriers				
A72-38M	27 min	12	52	L-1662-FC
A72-39M-06	27 min	12	52	L-1662-FC
A72-40MB	27 min	12	52	L-1662-FC
A72-41M	27 min	12	52	L-1662-FC
A72-41MB	27 min	12	52	L-1662-FC
A182-39M	27 min	12	52	L-1637-FC*
A182-39MLB	27 min	12	52	L-1637-FC*
A182-39MLBH	27 min	12	52	L-1637-FC*
A182-39MLC	27 min	12	52	L-1637-FC*
A182-39MU	27 min	12	52	L-1662-FC
A190-40M	27 min	12	52	L-1637-FC*
PA72-39M-06	27 min	12	52	L-1662-FC
PA72-40MB	27 min	12	52	L-1662-FC
PA182-39M	27 min	12	52	L-1637-FC*
PA182-39MLB	27 min	12	52	L-1637-FC*
PA182-39MLC	27 min	12	52	L-1637-FC*
PA194-40	27 min	12	52	L-1637-FC*
PA195-40M	27 min	12	52	L-1637-FC*
Storage Boxes				
E34-101	31 min	6	23	L-1658-FC
E34-102	31 min	6	23	L-1658-FC
E46-101	28 min	2	8	L-1643-FC
				L-1644-FC
E46-103	28 min	2	8	L-1644-FC
E50-101	28 min	4	17	L-1644-FC
E53-102	28 min	2	8	L-1635-FC
E88-101	28 min	2	8	L-1643-FC
E88-102	28 min	2	8	L-1643-FC
E88-103	28 min	2	8	L-1643-FC
E89-101	28 min	4	17	L-1638-FC
				L-1644-FC
E89-102	28 min	4	17	L-1644-FC
				L-1638-FC
E90-101	28 min	4	17	L-1635-FC
				L-1643-FC
				L-1644-FC
E90-102	28 min	4	17	L-1644-FC
				L-1643-FC
				L-1635-FC
E93-101	28 min	2	8	L-1644-FC
				L-1633-FC
E93-102	28 min	2	8	L-1644-FC
	28 min	2	8	L-1633-FC
E93-103	28 min	2	8	L-1644-FC
E97	28 min	6	26	L-1663 FC
E98-101	28 min	2	8	L-1635-FC
E98-102	28 min	2	8	L-1635-FC
E98-103	28 min	2	8	L-1635-FC
E99-101	30 min	2	8	L-1655-FC

*The L-1637-FC rack is recommended for these products. They will also fit in an L-1662-FC rack.

PRODUCT HELD	MACHINE CYCLE TIME	PRODUCTS PER RACK	MACHINE THROUGHPUT/HOUR	RACK ORDERING NUMBER
Wafer Shippers				
E124-60-101	28 min	4	21	L-1642-FC
E205-50	28 min	2	8	L-1656-FC
E206-60-101	28 min	2	8	L-1657-FC
Empak® H2150-1	36 min	2	7	L-1651-FC
TI 5" (2) capacity	28 min	2	9	L-1653-FC
E126-40	41 min	4 sets	12 sets	L-1625-FC
E126-80	41 min	2 sets	6 sets	L-1636-FC
Empak® PH9100	41 min	6 sets	18 sets	L-1625-FC
Empak® PH9150	41 min	3 sets	9 sets	L-1627-FC
H22 Individual				L-1671-FC

Data Storage Products

S300-048 Disk Shipper	28 min	12 sets	51 sets	L-1628-FC
S800-065 Disk Shipper	28 min	12sets	51 sets	L-1629-FC
S800 095 Disk Shipper	28 min	8 sets	34 sets	L-1630-FC
Empak® 95mm 2-piece Shipper	54 min	8 sets	18 sets	L-1632-FC
PA806-065 Process Carrier	30 min	48	192	L-1631-FC
PA806-095 Process Carrier	38 min	45	71	L-1666-FC
95mm Disk Caddie	36 min	6	20	L-1661-FC
E800 Storage Box	43 min	7	10	L-1668-FC

Other Products

Miscellaneous	Varies	Varies	Varies	L-1648-FC
200mm Microenvironment	Varies by mfg.	2 pods and 2 carriers	Varies by mfg.	L-1670-FC
Asyst 100mm SMIF-POD™	31 min	4	15	L-1660-FC
Hoya® 5" Mask Shipper	43 min	3 sets	8 sets	L-1650-FC
Hoya® 5"-A Mask Shipper	38 min	3 sets	9 sets	L-1654-FC
Hoya® 6" Mask Shipper	43 min	3 sets	8 sets	L-1649-FC
Chip and Bar/Head Trays, 2"	30 min	594	2,376	L-1665-FC
Chip and Bar/Head Trays, 4"	30 min	176	704	L-1667-FC

Racks by Rack Ordering Number

RACK ORDERING NUMBER	PRODUCT HELD
L-1625-FC	Wafer Shippers: E12640, Empak® PH9100
L-1627-FC	WaferShipper: Empak® PH9150
L-1628-FC	Disk Shipper: S800-048
L-1629-FC	Disk Shipper: S800-065
L-1630-FC	Disk Shipper: S800-095
L-1631-FC	Process Carrier: PA806-065
L-1632-FC	Disk Shipper: Empak® 95mm 2-piece
L-1633-FC	Storage Boxes: E93-101, E93-102
L-1635-FC	Storage Boxes: E98-101, E98-102, E98-103, E90-101, E90-102
L-1636-FC	Wafer Shipper: E126-80
L-1637-FC*	Wafer Carriers: A182-39M, PA182-39M, A182-39MLB, A182-39MLBH, PA182-39MLB, A182-39MLC, PA182-39MLC, A190-40M, PA194-40, PA195-40M, A182-50M, PA182-50M,

*The L-1637-FC rack is recommended for these products. They will also fit in an L-1662-FC rack.

RACK
ORDERING
NUMBER

L-1637-FC* (cont.)

PRODUCT HELD

A182-50MB, PA182-50MB, PA182-50MBH, A182-50MC,
PA182-50MC, A182-50MEB, A182-50MEC, A190-50M,
A190-50MH, A194-50MB, PA194-50MB, PA195-50M,
A182-60M, A182-60MB, PA182-60MB, A182-60MC,
PA182-60MC, A190-60M, A194-60MB, PA194-60MB,
PA194-60MBJ, PA195-60M, A196-60ML, A196-60MLB
Storage Boxes: E89-101, E89-102
Storage Box: E124-60-101
Storage Boxes: E88-101, E88-102, E88-103, E46-10, E90-101,
E90-102
Storage Boxes: E50-101, E89-101, E89-102, E90-101, E90-102,
E93-101, E93-102, E93-103, E46-101, E46-103
Storage Boxes: E53-102, E98-101, E98-102, E98-103
Miscellaneous
Mask Shipper: Hoya® 6"
Mask Shipper: Hoya® 5"
Storage Box: Empak® H2150-1
Wafer Carriers: A192-80M, PA192-80M, A192-81M, PA195-80M,
A198-80M, A198-80MB
Storage Box: TI 5" (2) Capacity
Mask Shipper: Hoya® 5"-A
Storage Boxes: E99-101
Storage Box: E205-50
Storage Box: E206-60-101
Storage Boxes: E34-101, E34-102
Microenvironment: Asyst 100mm SMIF-POD™
Disk Caddie: 95mm
Wafer Carriers: A72-38M, A72-39M-06, PA72-39M-06,
A72-40MB, PA72-40MB, A72-41M, A72-41MB, A182-39MU,
A72-50M, PA72-50M, A182-50MU, A182-60MU, PA182-60MU
Storage Box: E97
Wafer Carriers: A200 Series, PA200 Series, KA200 Series,
FA200 Series
Chip and Bar/Head Trays: 2"
Process Carrier: PA806-095
Chip and Bar/Head Trays: 4"
Storage Box: E800
Microenvironment: 200mm
Wafer Shipper: H22 Individual

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MICROELECTRONIC MATERIALS MANAGEMENT BY



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