



RenoNix CMP Parts Profile

2020.09.03



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1-1. Company Profile

Established 04th November 2010

Business

Semiconductor tools marketing, Refurbishment, Installation, Relocation, Conversion & Modification, Parts outsourcing, Technical Service, On call service & Technical Development & manufacturing

Capital 330K USD

Employee 16 Persons

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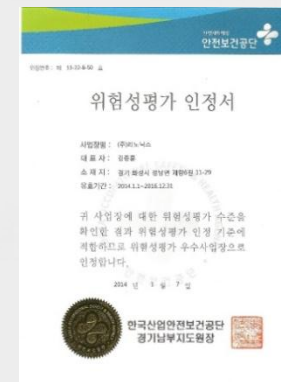
✓ISO9001
QAIC/KR/4291-B



✓ISO14001
QAIC/KR/4292-B



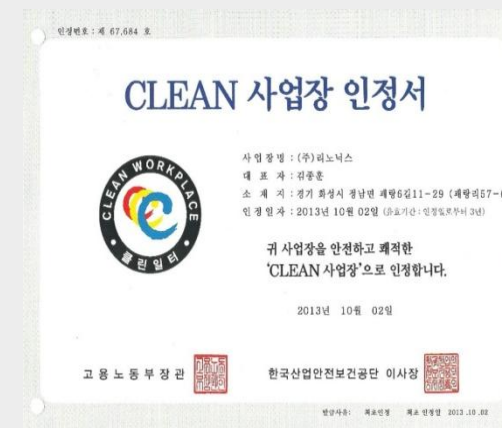
✓Enterprise Risk Management
13-22-B-50



✓Research Institute
2012151144



✓Clean Industry
67,684



1-2. Project Record (The Most Recent 3 Years)

Customer	Project Name	Brief Description	Q'TY	Year
Korea	DxZ PE SiH4 System Controller	Relocation	1	2019
Korea	CxZ Giga Fill Process Conversion From PSG to BPSG	Conversion	1	2019
Korea	Endura PCII Chamber Addition	Addition	1	2019
Korea	WxZ 4 Chamber Dual Divert	Conversion	1	2019
Korea	HDP SPEED USG 3 Chamber	Relocation	1	2019
Czech	Endura Back Metal 4 Chamber	Refurbish & Set-up	1	2019
Korea	CxZ Chamber From Bottom RPS to Top RPS	Conversion	1	2019
Singapore	Endura System From 6" to 8"	Conversion	1	2019
Korea	CxZ Chamber From Bottom RPS to Top RPS	Conversion	1	2019
Korea	Endura Chamber From HTHU Heater to STF 4F Heater	Conversion	1	2018
Korea	DxZ PE TEOS 4 Chamber	Refurbish & Set-up	1	2018
USA	2 WxZ Chamber, 2 WxP Chamber	Refurbish & Set-up	1	2018
Korea	WxZ 4 Chamber Dual Divert	Conversion	1	2018
Korea	DLH PE SiH4 3 Chamber	Relocation	1	2018
Korea	AMAT Centura TPCC DPN	Refurbishment/Start up	1	2017
Singapore	AMAT Endura5500 Ai Cu	Refurbishment/Start up	1	2017
USA	AMAT Centura	Refurbishment	1	2017
Korea	AMAT Producer-S 200mm	Refurbishment	1	2017
Korea	AMAT Endura5500 MOCVD	Retrofit & Start up	1	2017
Korea	AMAT Centura WCVD	Refurbishment/Start up	1	2017

1-3. Project Record (The Most Recent 9 Years)

Summary list for project

Project Name	Endura	Centura	Producer	LAM / Novellus	TEL SCCM	DNS	Other	TOTAL
Refurbishment/ Start up	18	8	2	2	1	1	5	37
Retrofit / Start up	22	10	-	-	-	-	3	35
Relocation/ Start up	1	12	-	1	-	-	4	18
Refurbishment	6	2	2	-	1(Upgrade)	-	3	14
TOTAL (104)	47	32	4	3	2	1	15	104

Summary list for country

Country	Q'TY	Rate
Korea	54	52%
China	18	17%
Singapore	18	17%
Taiwan	8	8%
Other	6	6%
TOTAL	104	100%

1-4. Business Detail

Customer Satisfaction

Equipment Refurbish

- ✓ AMAT PVD / CVD / ETCH, LAM / Novellus ETCH / CVD, TEL ETCH / TRACK, DNS Scrubber, etc.
- System Refurbishment, Modification, Relocation, Upgrade & Conversion Start-up.

2nd / OPM NEW Overhaul Items

- ✓ Shower Head OPM NEW (200mm / 300mm)
- ✓ Magnet 2nd NEW (200mm / 300mm)
- ✓ Electrode OPM NEW (200mm / 300mm)
- ✓ Roller Follower Mech 2nd NEW
- ✓ CMP Hybrid Bearing 2nd NEW

Spare Parts

- ✓ OEM / OPM / 2nd New Parts
- ✓ OPM : LAM Electrode / Stud Socket / ESC / ALN Heater / Gasket etc.
- ✓ 2nd New : Ceramic Pin.
- ✓ Provide process kits for PVD, CVD, ETCH process chamber.
- ✓ AMAT / LAM / NOVELLUS DNS / TEL etc. system part.

2. AMAT CMP 2nd NEW Items

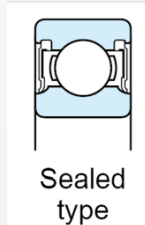
➤ CMP Parts List

P/N : 0190-77188	P/N : 0190-77187	P/N : 0190-77189	P/N : 0190-14833	P/N : 3060-00285	P/N : 0021-25762
BEARING, DOUBLE SEAL (Hybrid Bearing)	BEARING, .25IDX.625 OD (Hybrid Bearing)	BEARING, 3.0IDX3.5O D (Hybrid Bearing)	Hybrid Bearing (CMP)	Hybrid Bearing	SPACER BEARING INNER BRUSH MODULE 300MM
					
P/N : 0040-84148	P/N : 0010-17014	P/N : 0190-19948	P/N : 0040-80748	P/N : 0021-25759	P/N : 0021-25759
SHAFT IDLER, BRUSH MODULE, 300MM DESICA	IDLER ASSY, MEGA SONIC TANK, 300 mm Bearing ASSY	Bearing ASSY VITON G4051	HOUSING MAGNET BRUSH MODULE 300mm DESICA	BEARING HOUSING IDLER BRUSH MODULE 300MM	Bearing Housing (IDLER BRUSH MODULE)
					

2. AMAT CMP 2nd NEW Items

➤ Hybrid Bearing

*** RenoNix**



Description : BEARING,DOUBLE SEAL (Hybrid Bearing)

Specification : 4S-6007PKN.2RS-3N4.G

Code : (Vendor P/N: 0190-77188)

Material : Inner/Outer : SUS440C

Ball: CERAMIC (Si3N4)

Retainer : PEEK

Cover : RUBBER SHIELD

Lubricant : Grease (COLOR : RED)-MOBILITH SHC460

Type : Deep Groove Ball Bearing

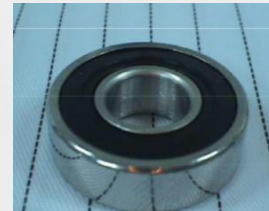
Remark : Use the special grease of CMP process

Improvement Item : Use ceramic material ball rotation to improve the bearing's life and rollability

Use conditional :

- Temperature : Normal temperature
- Load / RPM / Chemical : X
- Temperature difference between the bearing surface wet

*** RenoNix**



Description : BEARING,.25IDX.625OD (Hybrid Bearing)

Specification : 4S-R4S3. 2RS-3N4.G

Code : (Vendor P/N. : 0190-77187)

Material : Inner / Outer : SUS440C

Ball : CERAMIC (Si3N4)

Retainer : SUS304

Cover : RUBBER SHIELD

Lubricant : Grease (COLOR : RED) - MOBILITH SHC460

Type : Deep Groove Ball Bearing

Remark : Use the special grease of CMP process

Improvement Item : Use ceramic material ball rotation to improve the bearing's life and rollability

Use conditional :

- Temperature : Normal temperature
- Load / RPM / Chemical : X
- Temperature difference between the bearing surface wet

2. AMAT CMP 2nd NEW Items

➤ Hybrid Bearing

* RenoNix



Description : BEARING,3.0IDX3.5OD (Hybrid Bearing)

Specification : 4S-SB030PKN-3N4

Code : (Vendor P/N. : 0190-77189)

Material : Inner / Outer : SUS440C

Ball : CERAMIC (Si3N4)

Retainer : PEEK

Cover : RUBBER SHIELD

Lubricant : Grease

Type : 4 Point (Deep Groove Ball Bearing)

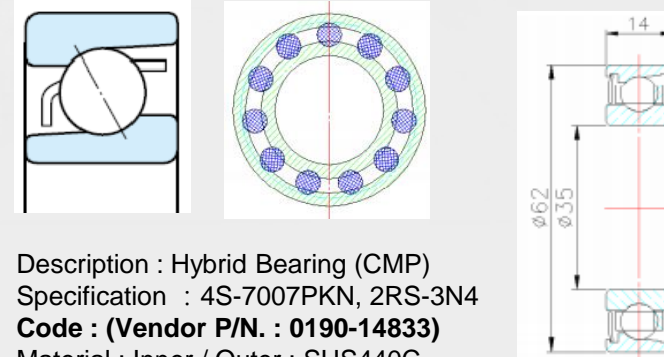
Remark : Have Direction. (@30"*@35"*2.5")

Improvement Item : Use ceramic material ball rotation to improve the bearing's life and rollability

Use conditional :

- Temperature : Normal temperature
- Load / RPM / Chemical : X
- Temperature difference between the bearing surface wet

* RenoNix



Description : Hybrid Bearing (CMP)

Specification : 4S-7007PKN, 2RS-3N4

Code : (Vendor P/N. : 0190-14833)

Material : Inner / Outer : SUS440C

Ball : CERAMIC (Si3N4)

Retainer : PEEK

Cover : RUBBER SHIELD

Lubricant : Grease

Type : Angular Ball Bearing

Remark : Use the special grease of CMP process

Improvement Item : Use ceramic material ball rotation to improve the bearing's life and rollability

Use conditional :

- Temperature : Normal temperature
- Load / RPM / Chemical : X
- Temperature difference between the bearing surface wet

2. AMAT CMP 2nd NEW Items

➤ Hybrid Bearing & Spacer Bearing

* RenoNix



Description : Hybrid Bearing

Specification : SC-6001T/E-SC

Code : (Vendor P/N. : 3060-00285)

Material : Bearing

Inner / Outer : CERAMIC (Si3N4)

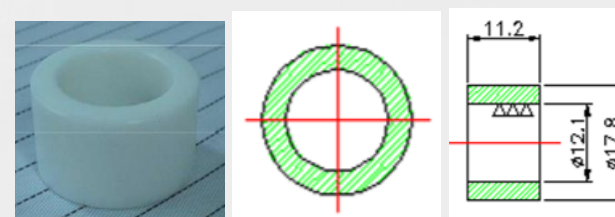
Ball : CERAMIC (Si3N4)

Retainer : PTFE

Use conditional :

- Temperature : Normal temperature
- Chemical : HF (1:100),
SC1-Ammonia(1) : Supernumerary(4) : DI (20)

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Description : SPACER BEARING INNER BRUSH MODULE 300MM
(Bearing ASSY)

Specification : 6001 RF SPACER

Code : (Vendor P/N. : 0021-25762)

Material : PLASTIC-PET

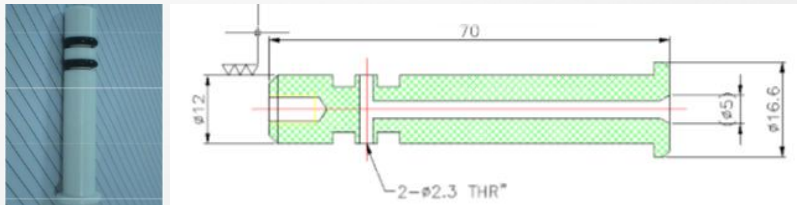
Use conditional :

- Temperature : Normal temperature
- Chemical : HF (1:100),
SC1-Ammonia(1) : Supernumerary(4) : DI (20)

2. AMAT CMP 2nd NEW Items

➤ Shaft Idler & Idler ASSY

* RenoNix



Description : SHAFT IDLER, BRUSH MODULE, 300MM DESICA (Bearing ASSY)

Specification : BEARING SHAFT-RF IDLER 12*70

Code : (Vendor P/N. : 0040-84148)

Material : BEARING SHAFT-PET, ORING

Use conditional :

- Temperature : Normal temperature
- Chemical : HF (1:100), SC1-Ammonia(1) : Supernumerary(4) : DI (20)

* RenoNix



Description : IDLER ASSY, MEGASONIC TANK, 300MM Bearing ASSY (CMP)

Specification : PKN-ID3924-SC

Code : (Vendor P/N. : 0010-17014)

Material : Inner / Outer : PEEK

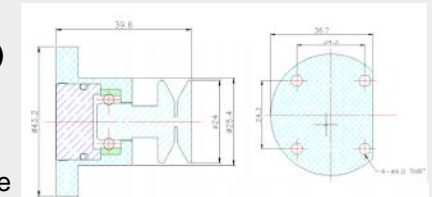
Ball : CERAMIC (Si3N4)

Retainer : *

Cover : PEEK BOLT Type

Lubricant : *

Type : Deep Groove Ball Bearing



Improvement Items :

1. Drive parts after improve Bearing drive effect more than Maker
2. Product surface treatment over the original level, so that effectively solve the problem of pollution and dust.

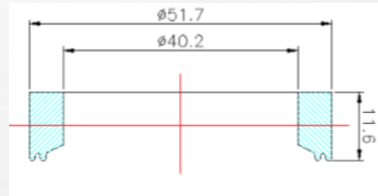
Use conditional :

- Temperature : Normal temperature
- Chemical : HF (1:100), SC1-Ammonia(1) : Supernumerary(4) : DI (20)
- Remark : Wafer transfer to taper gap between
Sometimes taper gap between the case of damage and surface wear

2. AMAT CMP 2nd NEW Items

➤ Hybrid Bearing & Housing Magnet Brush Module

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Description : Bearing ASSY

Specification : Bearing ASSY VITON G4051

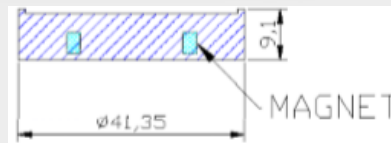
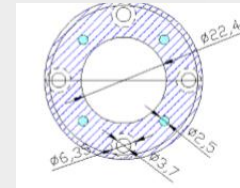
Code : (Vendor P/N. : 0190-19948)

Material : VITON

Use conditional :

- Temperature : Normal temperature
- Chemical : HF (1:100),
SC1-Ammonia(1) : Supernumerary(4) : DI (20)

* RenoNix



Description : HOUSING MAGNET BRUSH MODULE
300MM DESICA (Housing)

Specification : Bearing ASSY Magnet Housing

Code : (Vendor P/N. : 0040-80748)

Material : PVDF + MAGNET

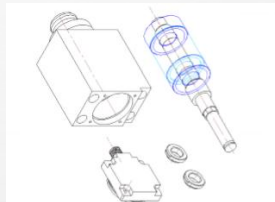
Use conditional :

- Temperature : Normal temperature
- Chemical : HF (1:100),
SC1-Ammonia(1) : Supernumerary(4) : DI (20)

2. AMAT CMP 2nd NEW Items

➤ Bearing Housing (IDLER BRUSH MODULE)

* RenoNix



Description : BEARING HOUSING IDLER BRUSH MODULE 300MM

Specification : IDLER BRUSH MOUDLE ASSY

Code : (Vendor P/N. : 0021-25759)

Material : Body-PET

Bearing

Inner / Outer : PCTFE

Ball : CERAMIC(SiC)

Retainer : PCTFE

Remark : Increasing bearing specifications improves rotational performance

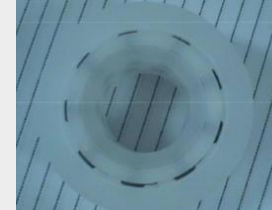
Use conditional :

- Temperature : Normal temperature

- Chemical : HF (1:100),

SC1-Ammonia(1) : Supernumerary(4) : DI (20)

* RenoNix



Description : Bearing Housing (IDLER BRUSH MODULE)

Specification : PCT-D6204UP-SC

Code : (Vendor P/N. : 0021-25759 Part)

Material : Bearing

Inner / Outer : PCTFE

Ball : CERAMIC(Si3N4)

Retainer : UHMW-PE

Use conditional :

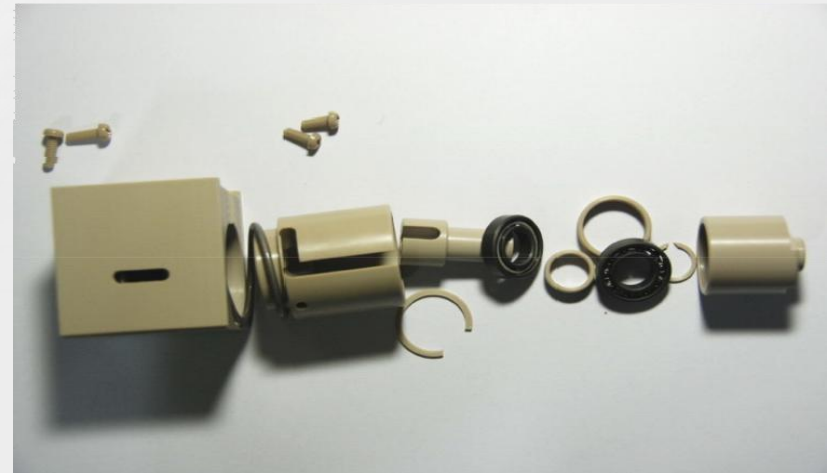
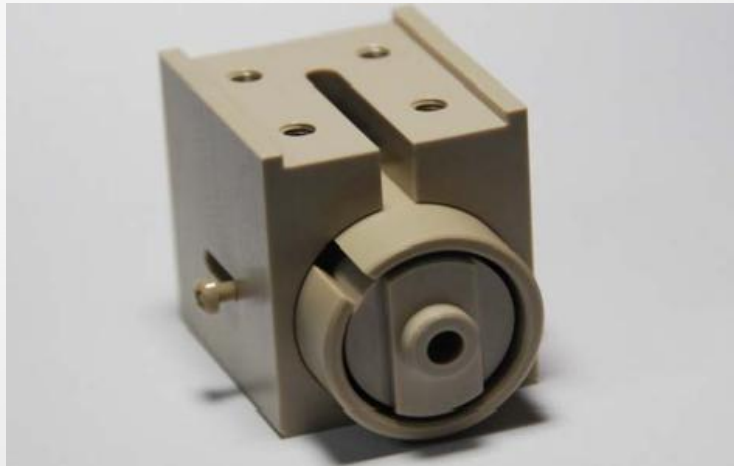
- Temperature : Normal temperature

- Chemical : HF (1:100),

SC1-Ammonia(1) : Supernumerary(4) : DI (20)

3. EBARA Roller Follower Mech 2nd NEW Items

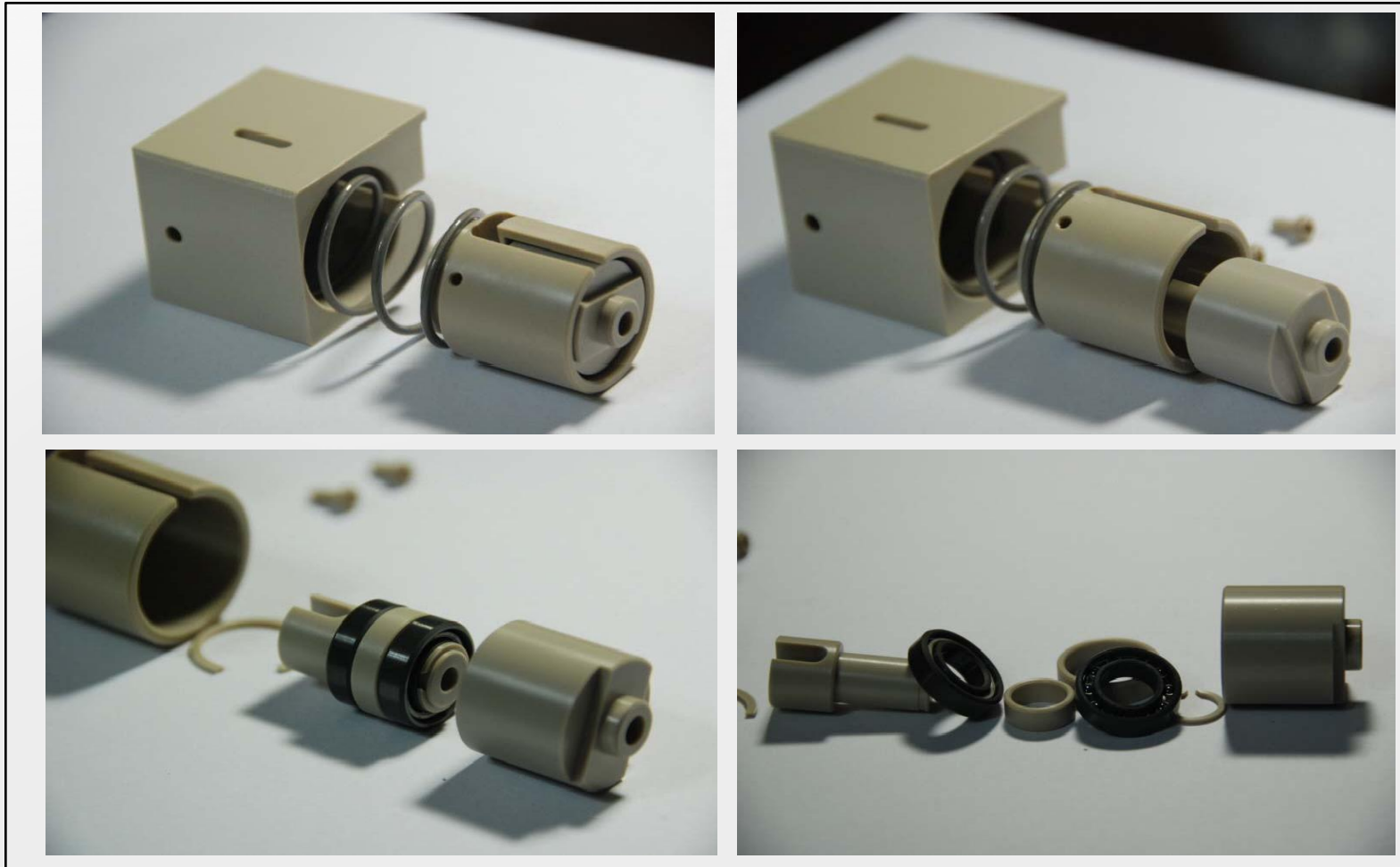
➤ Roller Follower Mech ASSY Photo



1. Equipment Maker : EBARA
2. Equipment Name : FREX 300
3. Description : IDLER BRUSH_BEARING BLOCK
4. Specification : SB-0821-1400
5. Code No.: P1157495
6. Use Q'TY : 6 SET /
Equipment (#6800 CERAMIC BR:12EA)
7. Use conditional :
 - Temperature : Normal temperature
 - Chemical : HF (1 :100)
 - SC1-Ammonia (1): Supernumerary (4): DI(20)
8. Material : PEEK, SiC

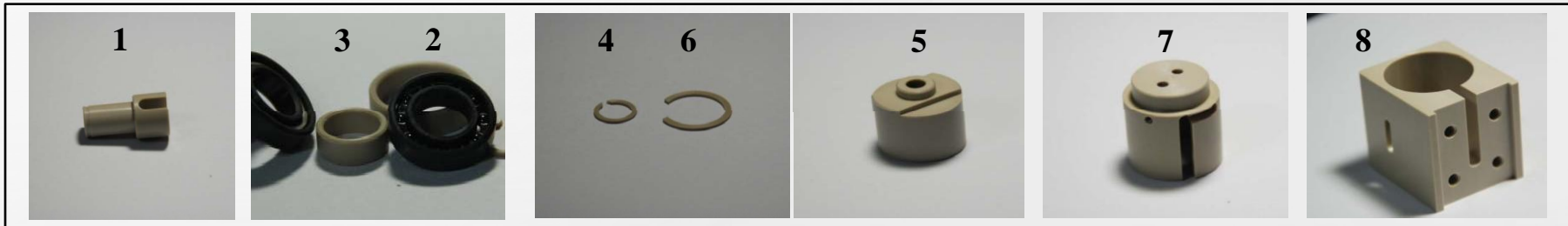
3. EBARA Roller Follower Mech 2nd NEW Items

➤ Roller Follower Mech ASSY & Dis-ASSY Photo



3. EBARA Roller Follower Mech 2nd NEW Items

➤ Roller Follower Mech ASSY & Dis-ASSY Photo



NO.	Model Name	Specification	Material
1	CENTER NOZZLE	C-1340-108-0001	PEEK
2	COLLAR BRG (D19*5). ROL	C-3115-093-0101	PEEK
3	COLLAR BRG (D10*5). ROL	C-3115-092-0101	PEEK
4	CIRCLIP (WR10)	C-4110-173-0101	PEEK
5	SUPPORT. CENTER NOZZLE. ROLL	C-3202-302-0001	PEEK
6	CIRCLIP (AR19)	C-4110-172-0101	PEEK
7	HOLDER. CENTER NOZZLE. ROLL	C-3558-081-0001	PEEK
8	CASE. CENTER NOZZLE. UR	C-3131-088-0001	PEEK
9	SPRING. NOZZLE. ROLL	C-1200-025-0001	SPRING, TEFLON CT
10	CERAMIC BEARING (CODE:P1144693)	C-1124-053-0101	CERAMIC, PEEK
11	CROSS RECESSED HEAD SCREW M3*8L	C-1000-043-0301	PEEK
12	CROSS RECESSED HEAD SCREW M3*10L	C-1000-044-0301	PEEK
13	CERAMIC PRODUCTS	-	CERAMIC (SiC)

RenoNix Major Customer

ON Semiconductor®



Dongbu HiTek
Agricultural Business

SILTERRA

UMC-SG

SSMC



em microelectronic



TSI
SEMICONDUCTORS



 **长电科技**
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Contact Point

**We're Capable of Most of service for PVD,CVD, ETCH areas.
If you have any inquiry or interest , please feel free to contact us.**



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