

From: [Alan Tan](#)
To: [Edwin Koh](#); [HuaZhen Luo](#)
Cc: [Desmond Ann](#); [Sue Jin Ng](#); [Christine Zhao](#); [GuanYee Chan](#)
Subject: RE: CPSM - 3D Printed Parts - CPSM upgrade for Arc FTN
Date: Sunday, 29 November, 2020 05:42:35
Attachments: [image004.png](#)

Approved
rdgs

From: Edwin Koh <Edwin_Koh@waters.com>
Sent: Saturday, 28 November, 2020 16:03
To: [HuaZhen Luo](mailto:HuaZhen_Luo@waters.com) <HuaZhen_Luo@waters.com>; [Alan Tan](mailto:Alan_Tan@waters.com) <Alan_Tan@waters.com>
Cc: [Desmond Ann](mailto:Desmond_Ann@waters.com) <Desmond_Ann@waters.com>; [Sue Jin Ng](mailto:Sue_Jin_Ng@waters.com) <Sue_Jin_Ng@waters.com>; [Christine Zhao](mailto:Christine_Zhao@waters.com) <Christine_Zhao@waters.com>; [GuanYee Chan](mailto:GuanYee_Chan@waters.com) <GuanYee_Chan@waters.com>
Subject: RE: CPSM - 3D Printed Parts - CPSM upgrade for Arc FTN

Approved per request

From: [HuaZhen Luo](mailto:HuaZhen_Luo@waters.com) <HuaZhen_Luo@waters.com>
Sent: Friday, November 27, 2020 16:31
To: [Edwin Koh](mailto:Edwin_Koh@waters.com) <Edwin_Koh@waters.com>; [Alan Tan](mailto:Alan_Tan@waters.com) <Alan_Tan@waters.com>
Cc: [Desmond Ann](mailto:Desmond_Ann@waters.com) <Desmond_Ann@waters.com>; [Sue Jin Ng](mailto:Sue_Jin_Ng@waters.com) <Sue_Jin_Ng@waters.com>; [Christine Zhao](mailto:Christine_Zhao@waters.com) <Christine_Zhao@waters.com>; [GuanYee Chan](mailto:GuanYee_Chan@waters.com) <GuanYee_Chan@waters.com>
Subject: RE: CPSM - 3D Printed Parts - CPSM upgrade for Arc FTN

Hi Edwin/Alan,

Please kindly review and approve this PO for 3D printed parts under CEA# WPPL20024.

Thanks

Luo HuaZhen
Senior Test Engineer

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#02-08 The Capricorn
Singapore Science Park II
Singapore 117528

From: [GuanYee Chan](mailto:GuanYee_Chan@waters.com) <GuanYee_Chan@waters.com>
Sent: Wednesday, 18 November, 2020 10:14
To: [Edwin Koh](mailto:Edwin_Koh@waters.com) <Edwin_Koh@waters.com>; [HuaZhen Luo](mailto:HuaZhen_Luo@waters.com) <HuaZhen_Luo@waters.com>
Cc: [Desmond Ann](mailto:Desmond_Ann@waters.com) <Desmond_Ann@waters.com>
Subject: FW: CPSM - 3D Printed Parts - CPSM upgrade for Arc FTN

Hi Edwin and HZ,

Please find attached the revised quotation for the CPSM parts.

Part List	Remarks
999047233 CPSM Cross Bar, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics

999047232 CPSM Main Panel, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics
999047123 CPSM Fluidic Docking Block, ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics
999047136 CPSM Fluidic Docking Cap, ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics
999047221 MOUNTING BRACKET	Aluminum

Thanks.

Regards,
Guan Yee

From: Eddie Lee <jegeddielee@yahoo.com.sg>
Sent: Wednesday, November 18, 2020 10:11
To: GuanYee Chan <GuanYee_Chan@waters.com>
Subject: [EXT] Re: [EXT] Re: Tooling Upgrade

ATTENTION: This email originated from outside of the organization. Please do not open any attachments or click any links unless you recognize the sender and know the content is safe.

Dear Ms. Guan Yee,
Please refer to the attached Revised Quotation.

Thank You and Best Regards.

Eddie Lee

On Wednesday, 18 November 2020, 8:57:43 am GMT+7, GuanYee Chan <guanyee_chan@waters.com> wrote:

Hi Eddie,

Delrin material is ok for the first 4 parts, but do note that it has to be ESD graded.

The parts are used with electronic system. So when people connect the cables to the instruments and parts, we want to avoid charges being built up.

Please let me know if you've questions on the part dimensions.

Please help to include the last mounting bracket in the quotation.

Part List	Remarks
999047233 CPSM Cross Bar, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics
999047232 CPSM Main Panel, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics
999047123 CPSM Fluidic Docking Block, ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics
999047136 CPSM Fluidic Docking Cap, ABS-ESD7, Solid Infill, .010 Slice Height	ESD grade plastics
999047221 MOUNTING BRACKET	

Look forward to hear from you.

Thanks.

Regards,

Guan Yee

From: Edwin Koh <Edwin_Koh@waters.com>
Sent: Friday, November 13, 2020 08:57
To: GuanYee Chan <GuanYee_Chan@waters.com>; HuaZhen Luo <HuaZhen_Luo@waters.com>
Cc: Desmond Ann <Desmond_Ann@waters.com>
Subject: FW: CPSM - 3D Printed Parts - CPSM upgrade for Arc FTN

Hi Guan Yee,

Thanks! I will ask HuaZhen to liaise with you on the fabrication of these parts. Please take note we need to stick to the material (Delrin should be an ABS material?)

and it must be **ESD grade** to ensure we have grounding. Also, there is one more part **999047221** we need JEG to quote.

@ HuaZhen, please ensure you follow up on the order placement and Leadtime with JEG on these parts.

These are for tester upgrade so you need to follow on the schedule.

Thanks

Edwin

From: GuanYee Chan <GuanYee_Chan@waters.com>
Sent: Tuesday, November 10, 2020 17:09
To: Edwin Koh <Edwin_Koh@waters.com>
Subject: CPSM - 3D Printed Parts

Hi Edwin, please find attached JEG quotation for CPSM - 3D Printed Parts.

999047233 CPSM Cross Bar, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height
999047232 CPSM Main Panel, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height
999047123 CPSM Fluidic Docking Block, ABS-ESD7, Solid Infill, .010 Slice Height
999047136 CPSM Fluidic Docking Cap, ABS-ESD7, Solid Infill, .010 Slice Height

Thanks.

Regards,

Guan Yee

From: Eddie Lee <jegeddielee@yahoo.com.sg>
Sent: Tuesday, November 10, 2020 16:44
To: GuanYee Chan <GuanYee_Chan@waters.com>

Subject: [EXT] Re: [EXT] RE: Tooling Upgrade

ATTENTION: This email originated from outside of the organization. Please do not open any attachments or click any links unless you recognize the sender and know the content is safe.

Dear Ms. Guan Yee,

Please refer to the attached Quotation.

Thank You and Best Regards.

Eddie Lee

On Tuesday, 10 November 2020, 12:19:10 pm GMT+7, jegeddielee <jegeddielee@yahoo.com.sg> wrote:

Hi Guan Yee,

Will quote you using ESD delrin. Milky colour. Thanks.

Regards

Eddie

Sent from my Galaxy

----- Original message -----

From: GuanYee Chan <GuanYee_Chan@waters.com>

Date: 10/11/2020 10:39 (GMT+08:00)

To: jegeddielee <jegeddielee@yahoo.com.sg>

Subject: RE: [EXT] RE: Tooling Upgrade

Hi Eddie,

Please use the ABS-ESD7, I believe it's a type of 3D printing material.

999047233 CPSM Cross Bar, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height
999047232 CPSM Main Panel, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height
999047123 CPSM Fluidic Docking Block, ABS-ESD7, Solid Infill, .010 Slice Height
999047136 CPSM Fluidic Docking Cap, ABS-ESD7, Solid Infill, .010 Slice Height

Thanks.

Regards,

Guan Yee

From: jegeddielee <jegeddielee@yahoo.com.sg>
Sent: Tuesday, November 10, 2020 10:37
To: GuanYee Chan <GuanYee_Chan@waters.com>
Subject: [EXT] RE: Tooling Upgrade

ATTENTION: This email originated from outside of the organization. Please do not open any attachments or click any links unless you recognize the sender and know the content is safe.

Hi Guan Yee,

Base on what materials to quote? Thanks.

Regards

Eddie

Sent from my Galaxy

----- Original message -----

From: GuanYee Chan <GuanYee_Chan@waters.com>

Date: 10/11/2020 10:09 (GMT+08:00)

To: Eddie Lee <jegeddielee@yahoo.com.sg>

Subject: RE: Tooling Upgrade

Hi Eddie, please find attached step files. Thanks.

Regards,

Guan Yee

From: GuanYee Chan

Sent: Tuesday, November 10, 2020 09:36

To: Eddie Lee <jegeddielee@yahoo.com.sg>

Subject: RFQ: Tooling Upgrade

Hi Eddie,

I'm tasked for some tooling upgrade.

Could you help to review the models and send us a quotation? The material type and description are below.

999047233 CPSM Cross Bar, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height
999047232 CPSM Main Panel, 3Dprinted ABS-ESD7, Solid Infill, .010 Slice Height
999047123 CPSM Fluidic Docking Block, ABS-ESD7, Solid Infill, .010 Slice Height
999047136 CPSM Fluidic Docking Cap, ABS-ESD7, Solid Infill, .010 Slice Height

Thanks.

Regards,

Guan Yee

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