

**Star Rapid Limited**

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**QUOTE.**

Number: P013639G  
Date: 14-May-2020  
Valid until: 12-Jun-2020

Quote To
University of Michigan Maurice Miro ( mmiro@umich.edu ) Tel: 2350 Hayward Street Rm#1495 Bldg: G.G. Brown Ann Arbor, MI 48109-2125 United States of America

Details
Sales: Dara SHABNAM Email: DARA.SHABNAM@starrapid.com  Currency: US Dollar Terms: Net 30 Days Ship Via: ExWorks  Ref.:

Item #	Item Name	Description	Lead Time	Quantity	Unit Price	Amount
001	p1001_stage1InputPulley_2mm_16	Process: CNC Part Material: 17-4PH SS Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	1	US\$309.00	US\$309.00
002	p1002_motorBearingHousing	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	1	US\$210.00	US\$210.00
003	p1003_motorPulleyLock	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+dark grey anodized Surface Color: ?Dark grey (PANTONE #18-0306) Remarks:	16-19 Day(s)	1	US\$139.00	US\$139.00
004	p1004_motorCouplingKnee	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	2	US\$81.00	US\$162.00
005	p1005_pulleyFlange_stage1Input	Process: CNC Part Material: Black ABS Surface Finish: As machined (Ra3.2) Surface Color: Black Remarks:	16-19 Day(s)	4	US\$47.00	US\$188.00
006	p1006_stage2InputPulley_5mm_14	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	1	US\$227.00	US\$227.00

Item #	Item Name	Description	Lead Time	Quantity	Unit Price	Amount
007	p1007_stage1OutputPulley_2mm_8	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	1	US\$330.00	US\$330.00
008	p1008_pulleyFlange_stage2Input	Process: CNC Part Material: Black ABS Surface Finish: As machined (Ra3.2) Surface Color: Black Remarks:	16-19 Day(s)	2	US\$70.00	US\$140.00
009	p1009_stage3InputPulley_5mm_14	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	1	US\$227.00	US\$227.00
010	p1010_stage2OutputPulley_5mm_4	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	1	US\$282.00	US\$282.00
011	p1011_pulleyFlange_stage3Input	Process: CNC Part Material: Black ABS Surface Finish: As machined (Ra3.2) Surface Color: Black Remarks:	16-19 Day(s)	2	US\$69.00	US\$138.00
012	p1012_stage3OutputPulley_5mm_4	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	1	US\$387.00	US\$387.00
013	p1013_proxPyramid	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+black anodized Surface Color: Black Remarks:	16-19 Day(s)	3	US\$240.00	US\$720.00
014	p1014_proxPyramidStrut	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+black anodized Surface Color: Black Remarks: <b>Remove EDM feature.</b>	16-19 Day(s)	2	<b>US\$155.00</b>	US\$310.00

Item #	Item Name	Description	Lead Time	Quantity	Unit Price	Amount
015	p1015_magnetHolder	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	2	US\$70.00	US\$140.00
016	p1016_distalBase	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+black anodized Surface Color: Black Remarks:	16-19 Day(s)	1	US\$179.00	US\$179.00
017	p1016_distalBaseLoadcell	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+black anodized Surface Color: Black Remarks:	16-19 Day(s)	1	US\$179.00	US\$179.00
018	p1016_distalBaseLoadcellSmall	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+black anodized Surface Color: Black Remarks:	16-19 Day(s)	2	US\$140.00	US\$280.00
019	p1017_kneeEncoderHousing	Process: CNC Part Material: Black ABS Surface Finish: As machined (Ra3.2) Surface Color: Black Remarks:	16-19 Day(s)	2	US\$139.00	US\$278.00
020	p1018_housingKneeRight	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+dark grey anodized Surface Color: ?Dark grey (PANTONE #18-0306) Remarks:	16-19 Day(s)	1	US\$593.00	US\$593.00
021	p1019_housingKneeLeft	Process: CNC Part Material: AL7075-T6 Surface Finish: Bead blasted+dark grey anodized Surface Color: ?Dark grey (PANTONE #18-0306) Remarks:	16-19 Day(s)	1	US\$720.00	US\$720.00
022	p1020_pulleyGuard	Process: CNC Part Material: Black ABS Surface Finish: As machined (Ra3.2) Surface Color: Black Remarks:	16-19 Day(s)	1	US\$115.00	US\$115.00

Item #	Item Name	Description	Lead Time	Quantity	Unit Price	Amount
023	p1021_electronicsCover Knee	Process: CNC Part Material: Black ABS Surface Finish: As machined (Ra3.2) Surface Color: Black Remarks:	16-19 Day(s)	1	US\$196.00	US\$196.00
024	p1022_standoffSlotted	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks:	16-19 Day(s)	6	US\$39.00	US\$234.00
025	p1101_gearStopNoSpri ng	Process: CNC Part Material: 17-4PH SS Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks: <b>Change material.</b>	16-19 Day(s)	2	<b>US\$180.00</b>	US\$360.00
026	p1102_spacer	Process: CNC Part Material: AL7075-T6 Surface Finish: As machined (Ra3.2) Surface Color: Natural Remarks: Additional Charges: shipment cost	16-19 Day(s)	1	US\$190.00	US\$190.00  US\$80.00
					<b>PARTS Total:</b>	<b>US\$7,233.00</b>
					<b>GRAND Total:</b>	<b>US\$7,313.00</b>

Thank you for the opportunity to quote. Please contact us if you have any enquiries concerning this quote.

**Please sign and return this quotation by email to confirm your order.**

Date
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Signature
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I confirm that I am an authorized signatory of the client company.

## NOTES

### 1. Terms & Conditions

Acceptance of our quotation or placing of an order shall constitute acceptance of our terms & conditions:  
[www.starrapid.com/terms-and-conditions/](http://www.starrapid.com/terms-and-conditions/)

### 2. Import

All importers are legally required to provide a valid HS Code for the purposes of importation into your own country.

### 3. Payment

#### 3.1 General

- Prices exclude VAT. You may be required to pay VAT and Import Duties in your own Country.
- A 4% fee will be applied to orders that are paid via PayPal.

#### 3.2 Tooling

- Proforma Invoice upon receipt of Customer PO, tooling project starts after receiving 50% upfront payment.
- If no approval received within 30 days after 1st sample shipment, the balance 50% is treated as payment due.
- If delay is caused due to customer's fault (e.g. design change & etc), the customer shall pay 50% balance amount and we carry on the order upon receipt of the 50% balance.

### 4. Other

#### 4.1 General

- This quotation is based upon data received and is subject to final designs and specifications and any non standard inspection or test requirements.
- Special tolerance requirement should be provided before the order confirmation, otherwise our standard tolerances will apply.
- The buyer is fully responsible for the correctness of the supplied data files. Star Rapid is not responsible to check for consistency between the files. When 3D CAD and 2D drawings are supplied, the parts will be manufactured according to the 3D CAD files. The 2D drawings will be used for general information and tolerances only.

#### 4.2 RP - Star Prototype's General Tolerances (finer tolerances are based on best effort only!)

- CNC (Metals): DIN ISO 2768 fine | CNC (Plastics): DIN ISO 2768 medium
- Vacuum casting: between +/- 0.2mm or 0.15% (depend on part size)
- SLA: +/- 0.1mm < 100mm or +/- 0.2mm (100mm to 200mm)
- SLS: +/- 0.2mm < 100mm or +/- 0.3mm (100mm to 200mm)

#### 4.3 Tooling &, Molding incl. ECN

- Tooling lead-time (T1) starts from Design for Manufacturing (DFM) confirmation.
- 5 pcs/sets of samples for tool approval plus shipment are included.
- Tool price includes first inspection report - supplied upon request only. (NO FULL ISIR)
- If no molding order received over 18 months since last order, the mold may be scrapped by STAR if no reply received within 1 month upon our enquiry about the disposal method of the mold.

#### 4.4 Anodising Process

- Colour: We cannot guarantee to colour match anodised parts to Pantone, RAL, or other reference systems. If you can provide us with a golden sample of a part that is in exactly the same material; with the same surface finish prior to anodising; anodised by the same process; to the same depth; and dyed with the same dye chemistry; and then we can attempt to colour match the sample, but this cannot be guaranteed as the anodising process is far too sophisticated and varied to achieve the same results. There is no guarantee that the colours will be the same from batch to batch; therefore we strongly recommend that you anodise all parts of the same colour, in a single assembly, at the same time. Do not expect parts with different material grades, different finishes, or anodised to differing depths, to have the same colour even if done in the same batch. In short, dyeing anodised parts is an incredibly sophisticated and unstable process and no guarantees of any kind relating to colour can be given for prototype or low-quantity parts.
- Tolerances: Any feature that carries a high-precision-tolerance (better than DIN ISO 2768-f) cannot be guaranteed after anodising. We recommend that high-precision features should be either masked before anodising, or machined after anodising. We also cannot guarantee high-precision-tolerances after any kind of sanding, sand-blasting, bead-blasting, rumbling, or any other secondary process. We can only guarantee high-precision-tolerances if the features is left completely untouched after machining.

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#### Bank Information

Account Holder Name: Star Rapid Limited  
Account Number: 000687799  
Bank Name: DBS BANK (HONG KONG) LTD  
Bank street address: 11/F, The Center, 99 Queen's Road Central,  
Central, Hong Kong  
Bank Country: China  
Bank Code: 016  
Swift Code(BIC): DHBKHKHH