



Amaero International Ltd

On track to deliver meaningful revenues by end CY21

Amaero International Ltd (ASX:3DA) creates large format, complex components in metal with laser-based additive manufacturing for the defence, aerospace and automotive sectors. The company, works with several of the world's leading manufacturers of aerospace and defence products, delivering both design & prototype and manufacturing capability. Amaero has provided an update to investors noting that the several opportunities it has before it puts the company on track to deliver meaningful revenues by the end of CY21. The near term revenue opportunities include building a Centre for Additive Manufacturing Excellence in the Middle East, building and commissioning of a 120t/annum titanium powder facility in Australia, and expanding on the purchase order already received from Nissan. The company has also entered an agreement with Rio Tinto (ASX:RIO) to collaborate on the development of the supply chain for Amaero's high performance, high operating temperature aluminium alloy, "Amaero Hot Al". Amaero recently reported a better than forecast H1 FY21 loss of \$3.01m, compared with our forecast for a net loss of \$3.14m. The operating loss (EBITDA) for the half year was \$1.91m (excluding non-cash share based payments), a 12% increase in H1 FY20 but below our forecast for a loss of \$2.79m, with cost containment the feature. We have made some minor adjustments to our forecasts after incorporating the H1 FY21 result. Our base case valuation has lifted to \$0.92/share (previously \$0.90/share) as a result.

Business model

Amaero generates revenue from several sources including the design and prototyping of additive manufacturing solutions on a cost-plus basis; from contract manufacturing and tooling on a price per unit basis; from the sale of proprietary metal 3D printers & equipment and 3D printing metal powders on a cost plus mark-up basis; from post-sales support and maintenance service fees; and from the rights to commercialise patented proprietary alloys developed by Monash University on a price per unit basis. Amaero has the North American commercialisation rights to a range of 3D printing machines, including the world's largest laser powder bed machine, as well as the powder preparation machines and powder handling and recovery devices. The company owns fully accredited manufacturing facilities in Melbourne, Adelaide and El Segundo, California.

Near term revenue opportunities defined

Amaero has provided an update on its CY2021 growth strategy which includes the commissioning of a yet to be contracted Australian titanium powder manufacturing facility to support US defence prime contractors, a yet to be contracted but rapidly progressing Middle Eastern Metal 3D printing Centre of Excellence, a potential satellite project and an expansion of the Nissan agreement based on the Purchase Order received for a die casting auto component for the Nissan Leaf electric vehicle for other component parts.

Base case DCF valuation is \$0.92/share

We use the discounted cashflow methodology to value Amaero using a WACC of 13.9% (beta 1.9, terminal growth rate of 2.2%) and this derives an equity value of \$0.92/share (previously \$0.90/share) on the current share count. As we highlighted in our recent initiation report Delivering efficiencies in 3D printing, we have modelled but not included the potential for expansion of the Fletcher Insulation tooling agreement to its global network, the proposed US\$77m (A\$108m) Middle East 3D printing facility and an expanded case (1,200t) Australian titanium powder manufacturing facility, which combined could take our base case valuation to \$1.17b which equates to \$5.82/share on the current share count.

Histor	ical earnings	and RaaS	forecasts			
Y/E	Sales Revenue (A\$m)	Gross Profit (A\$m)	EBITDA (A\$m)	NPAT (A\$m)	EPS (c)	EV/Sales (x)
06/20a	0.1	0.0	(4.2)	(4.8)	(3.4)	nm
06/21e	3.1	1.1	(4.8)	(6.1)	(3.1)	45.7
06/22e	20.0	5.7	(1.8)	(2.8)	(1.3)	7.0
06/23e	55.3	22.1	13.9	12.5	5.3	2.4

Source: Company data for historicals, RaaS estimates for FY21e, FY22e and FY23e

Additive Manufacturing

19th March 2021



Share performance (12 months)



Upside Case

- Counts six of the top 10 defence companies as clients
- Partnered with the world's foremost additive manufacturing R&D team at Monash University
- Strong board and advisory board with links into the decisionmakers in US and EMEA defence

Downside Case

- Competing with multinational 3D printing manufacturers with big balance sheets
- Further capital raises likely, resulting in potential dilution
- Still early stage with no guarantee that strategy will translate into earnings success

Catalysts

- Australian titanium powder plant proceeds
- Patents over aluminium and titanium alloys granted
- Decision on 3D printing centre in Middle East

Board of Directors

David Hanna Non-Executive Chairman
Stuart Douglas Executive Director
Kathryn Presser Non-Executive Director

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Key points from Update Presentation

Amaero highlighted its CY2021 growth strategy and reaffirmed its business model focus in a recent presentation to shareholders. Key points from the presentation:

- The Middle Eastern 3D printing Centre of Excellence is progressing rapidly with expectations for a decision to proceed by early May;
- The yet to be contracted new powder facility (initial phase of 120t per annum) will generate around A\$30m revenue a year for the company;
- US Defence Primes are supporting a facility 10x that size (1,200t per annum) to secure supply outside China and Russia and this would generate revenues of A\$300m a year;
- Amaero is in discussions with Nissan to expand the purchase order received for one component of the Nissan Leaf to other components;
- The company's advisory board comprising Hon Christopher Pyne (former Australian Minister for Defence), Patrick Shanahan (the former Acting Secretary of Defense for the US) and David Wolf (a member of the board of the Global Offsets & Countertrade Association (GOCA)) was opening doors for Amaero on a global scale;
- The company's new team members have brought significant expertise across powder manufacturing technology, metal 3D printing and tooling;
- The company is considering the merits of listing in the US via a Special Purpose Acquisition Company (SPAC) structure given the valuations being given in the US markets for metal 3D printing companies such as Desktop Metal (NYSE:DM) and soon to be listed Markforged (NYSE:MKFG).

Collaboration with Rio Tinto

Amaero has also entered into a collaboration agreement with Rio Tinto on the development of the supply chain for Amaero's high performance, high operating temperature aluminium alloy, "Amaero Hot AI", which will see Rio providing Amaero with the feedstock to atomise into powder and it turn Rio will have the opportunity to sell billet to other parties. We do not expect any immediate revenues to emerge from this collaboration but see it as strategically important for Amaero's relationship with Boeing and Raytheon by delivering another credible source of aluminium alloy. Longer term, revenues are likely to be derived as a royalty on a percentage of sales with an expected take up rate of 10t per year within two years and 60t a year thereafter. We have not yet included this in our forecasts given it is two to three years away from generating meaningful income for the company.

Key points from H1 FY21 result

Amaero has reported a better than forecast net loss of \$03.01m, compared with our forecast for a net loss of \$3.14m. The result was a 58% increase on the previous corresponding period's net loss of \$1.91m. Revenue for the period was \$0.12m, up 331% on the pcp although below our forecast for \$0.36m, chiefly due to timing differences on revenue recognition from contracts signed in the half. Total revenue for the period was \$0.73m underpinned by government grants including a \$0.52m R&D grant. Non-employee and R&D costs were kept tightly under control in the half with the \$1.14m reported, declining 6% on the pcp. Employee costs rose 84% to \$0.62m while R&D costs increased 131% to \$0.77m. Both however were below our forecasts for the period. We have made minor adjustments to our FY21 forecasts, effectively as a result of incorporating the reported H1 FY21 numbers.



Exhibit 1: H1 FY21 vs H1 FY20	and RaaS foreca	ıst		
	H1 FY20	H1 FY21	% chg	RaaS Fct
Sales revenue	0.03	0.12	331.1%	0.36
Total Revenue	0.19	0.73	284.1%	0.84
EBITDA	(1.71)	(1.91)	11.5%	(2.79)
NPAT	(1.91)	(3.01)	57.7%	(3.14)
EPS	(1.72)	(1.59)	(7.6%)	(1.77)
Source: Company data, RaaS estima	tes			

Earnings adjustment

We have made some small adjustments to our forecasts for FY21, chiefly flowing from incorporating the first half result. The changes are set out in the following table.

Year ending June 30	FY21 old	FY21 new	% chg	FY22 old	FY22 new	% chg
Sales Revenue	3.35	3.13	(6.5%)	20.03	20.05	0.1%
Total Revenue	3.83	3.74	(2.2%)	20.68	20.76	0.4%
Gross Profit	1.11	1.09	(1.6%)	5.61	5.69	1.4%
EBITDA	(5.92)	(4.78)	(19.3%)	(2.27)	(1.82)	(19.7%)
NPAT	(6.60)	(6.15)	(6.8%)	(3.36)	(2.79)	(16.9%)
EPS	(3.51)	(3.15)	(10.3%)	(1.58)	(1.31)	(17.3%)

DCF valuation

In our view, given the early-stage nature of Amaero's business, the discounted cashflow methodology to be the most appropriate method for valuing the company. We derive a weighted average cost of capital (WACC) of 13.9% (beta 1.8, terminal growth rate 2.2%) and this gives us a base case valuation of \$185.3m or \$0.92/share on the current share count of 201.8m. We use an equity risk premium of 6.5% and risk free rate of 2.0% (we have recently adjusted these from 7.0% and 1.0% to reflect the rising 10-year Treasury bond rate). Note that we do anticipate further raisings (an additional \$17.3m on the current cash in hand) and this will likely result in additional shares on issue.

DCF valuation	Parameters
Discount Rate / WACC	13.9%
Beta	1.8
Equity Risk Premium	6.5%
Risk Free Rate	2.0%
Terminal growth rate	2.2%
CAGR in FCF FY22-30	13.91%
Sum of PV (A\$M)	68.6
PV of terminal Value (A\$m)	90.3
PV of Enterprise	158.9
Net Cash raised in capital raisings	(26.4)
Net Value - Shareholder	185.3
No of shares on issue	201.8
NPV in A\$	\$0.92

Scenario Analysis

Our initiation report contemplated the valuation impact of several opportunities for Amaero including the projects the company outlined in its update. We have modelled but not included the potential for expansion of the Fletcher Insulation tooling agreement to its global network (project 1), the proposed US\$77m (A\$108m) Middle East 3D printing facility (project 2) and an expanded case (1,200t) for the not-yet-contracted proposed Australian titanium powder manufacturing facility (project 3), which combined could take our base case valuation to \$1.17b which equates to \$5.84/share on the current share count. Note that our forecasts include a 120t per annum Australian titanium powder facility. Again our forecasts incorporate an expectation that additional capital will be required resulting in additional shares being issued. This is all



very subjective and dependent on the projects getting underway, timing, funding and final detail but the exercise demonstrates that there is potential upside from Amaero's current business.

We set out the impact of these projects on the valuation in the following table.

Exhibit 4: Base case valuation w	ith scenar	rio impact of	proposed pr	ojects on val	uation
	Base	Base with Project 1	Base with Project 2	Base with Project 3	Base with Projects 1, 2 & 3
DCF Valuation \$m DCF valuation on current share count of 201.8M shares*	185 \$0.92	271 \$1.35	275 \$1.36	998 \$4.94	1,174 \$5.82

Source: RaaS estimates *note that additional capital will be required for projects, potentially resulting in additional shares being issued



Amaero International Ltd						Share price (18 March 202	21)				A\$	0.69
Profit and Loss (A\$m)						Interim (A\$m)	H120A	H220A	H121F	H221F	H122F	H222F
Y/E 30 June	FY19A	FY20A	FY21F	FY22F	FY23F							
						Sales Revenue	0.0	0.1	0.1	3.0	7.7	12.3
Sales Revenue	0.0	0.1	3.1	20.0	55.3	EBITDA Adj	(1.7)	(2.4)	(1.9)	(2.9)	(1.6)	(0.2
Total Revenue	0.0	0.4	3.7	20.8	55.3	EBIT Adj'	(1.9)	(2.8)	(2.5)	(3.2)	(2.1)	(0.8
Gross Profit	0.0	0.3	1.1	5.7		NPAT (Adj)	(1.9)	(2.9)	(3.0)	(3.1)	(2.1)	(0.7
EBITDA Adj	(0.1)	(4.2)	(4.8)	(1.8)		Minorities		-	-	-	-	-
Depn	0.0	(0.5)	(0.9)	(1.1)	. ,	NPAT (reported)	(2.8)	(3.0)	(3.2)	(3.1)		(0.7
Amort	0.0	0.0	0.0	0.0	0.0	EPS (Adj)	(1.72)	(2.03)	(1.59)	(1.56)	(0.98)	(0.33
EDIT A II	(0.4)	(4.7)	(5.7)	(0.0)	400	500 / · · · · ·	(0.50)	(4.00)	(4.50)	(4.55)	(0.04)	(0.04
EBIT Adj	(0.1)	(4.7)	(5.7)	(2.9)		EPS (reported)	(2.50)	(1.69)	(1.59)	(1.55)	(0.94)	(0.31
Interest		(0.2)	(0.1)	0.0		Dividend (cps)	-	-	-	-	-	-
Tax	0.0					Imputation						-
Minorities	0.0	0.0	0.0	0.0		Operating cash flow	(1.5)	(2.8)	(2.8)	(4.3)	, ,	1.: 4.:
Equity accounted assoc	0.0	(4.8)		(2.8)		Free Cash flow Divisions	0.7	. ,	(2.4)	. ,		
NPAT pre significant items	(0.1)	. ,	(6.1)	· /		Sales and service revenue	H120A	H220A	H121F	H221F	H122F	H222I
Significant items	(0.1)	(1.0)	(6.1)	0.0		R&D grants	0.0	0.1	0.1	3.0 0.0		12.3
NPAT (reported) Cash flow (A\$m)	(0.1)	(5.8)	(6.1)	(2.8)	12.5	Total Revenue	0.2		0.6			12.
Y/E 30 June	FY19A	FY20A	FY21F	FY22F	FY23F		0.2	0.2	0.7			8.
EBITDA	(0.1)	(4.2)	(4.8)	(1.8)	-	Gross Profit	0.0	0.1	0.6			3.
Interest	0.0	(0.2)	(0.1)	0.1		R&D costs	(0.3)	(0.6)	(0.8)	(0.7)		(0.7
Tax	0.0	0.0	0.0	0.0		Employment	(0.3)	(0.6)	(0.6)	(1.5)		(1.9
Working capital changes	(0.1)	0.1	0.1	1.9		General & Admin costs	(0.8)	(0.8)	(0.7)	(0.8)	, ,	(0.8
Operating cash flow	(0.1)	(4.2)	(4.7)	0.2		Other costs	(0.5)	(0.6)	(0.4)	(0.4)		(0.4
Mtce capex	0.0	0.0	0.0	0.0	0.0		,	, ,	, ,	, ,	, ,	
Free cash flow	(0.1)	(4.2)	(4.7)	0.2	15.8	EBITDA	(1.7)	(2.4)	(1.9)	(2.9)	(1.6)	(0.2
Growth capex	0.0	(3.9)	(3.6)	(6.5)	(6.5)							
Acquisitions/Disposals	0.1	0.0	0.0	0.0	0.0	Margins, Leverage, Returns		FY19A	FY20A	FY21F	FY22F	FY23I
Other	(0.2)	0.0	(0.1)	0.0		EBITDA		nm	nm	nm	(9.1%)	25.1%
Cash flow pre financing	(0.2)	(8.1)	(8.4)	(6.3)		EBIT		nm	nm	nm	(14.4%)	22.2%
Equity	0.4	13.5	13.8	20.0		NPAT pre significant items		nm	nm	nm	(13.9%)	22.5%
Debt	0.0	(0.2)	0.0	0.0		Net Debt (Cash)		0.1	4.0		-	28.4
Dividends paid	0.0	0.0	0.0	0.0		Net debt/EBITDA (x)	(x)		n/a	n/a	n/a	2.
Net cash flow for year	0.2	5.2	5.5	13.7	9.3	ND/ND+Equity (%)	(%)	(41.3%)	(96.3%)		(149.2%)	(176.5%
Balance sheet (A\$m) Y/E 30 June	FY19A	FY20A	FY21F	FY22F	FY23F	EBIT interest cover (x)	(x)	n/a nm	n/a (70.2%)	n/a (33.9%)	n/a (8.3%)	- 0.0 19.1%
Cash	0.2	4.0	6.4	19.1	-	ROE		nm	(134.5%)			32.6%
Accounts receivable	0.2	0.1	0.8	3.6		ROIC		nm	(222.3%)	(108.5%)		229.2%
Inventory	0.1	0.5	4.1	10.3		NTA (per share)		0.01	0.05	0.07	0.14	0.19
Other current assets	0.1	0.1	0.2	0.5		Working capital		(0.2)	(0.1)			11.0
Total current assets	0.4	4.8	11.6	33.5		WC/Sales (%)		nm	(121.6%)	107.5%	26.0%	20.9%
PPE	0.5	7.4	9.2	14.7		Revenue growth		nm	nm	2586.5%	540.1%	175.7%
Intangibles and Goodwill	0.0	0.0	0.0	0.0	0.0	EBIT growth pa		n/a	n/a	n/a	n/a	(525.3%
Investments	0.0	0.0	0.1	0.1		Pricing		FY19A	FY20A	FY21F	FY22F	FY23F
Deferred tax asset	0.0	0.0	0.0	0.0	0.0	No of shares (y/e)	(m)	75	175	218	233	233
Other non current assets	0.0	0.2	0.2	0.2		Weighted Av Dil Shares	(m)	25	143	145	223	233
Total non current assets	0.5	7.6	9.5	15.0	19.9							
Total Assets	0.9	12.4	21.1	48.5		EPS Reported	cps	(0.3)	(4.1)			5.
Accounts payable	0.4	0.8	1.5	8.7		EPS Normalised/Diluted	cps	(0.3)	(3.4)			5.
Short term debt	0.0	0.0	0.0	0.0		EPS growth (norm/dil)		n/a	n/a	n/a	n/a	(508.2%
Tax payable	0.0	0.0	0.0	0.0		DPS	cps		- ,		1-	-
Deferred revenue	0.0	1.2	1.2 2.7	5.3 14.0		DPS Growth Dividend yield		n/a	n/a			n/ 0.0%
Total current liabilities	0.5					,		0.0%	0.0%		0.0%	0.09
Long term debt Other non current liabs	0.0	0.0 2.9	0.0 2.5	0.0 2.5		Dividend imputation PE (x)		0	0	0	0	12.8
Total long term liabilities	0.0	2.9	2.5	2.5		PE (x) PE market		18.6				18.
Total Liabilities	0.0	4.1	5.3	16.6		Premium/(discount)		nm	nm	nm	nm	nm
Net Assets	0.5	8.2	15.8	31.9		EV/EBITDA		nm	nm	nm	nm	nm
10170000	0.5	0.2	13.0	31.3	77.3	FCF/Share	cps	(0.2)	(2.4)			11111
Share capital	0.6	14.0	27.3	47.3	47.3	Price/FCF share	opo	(379.4)	(28.3)			10.1
Accumulated profits/losses	(0.1)	(5.9)	(11.8)	(15.6)		Free Cash flow Yield		(0.3%)	(3.5%)			9.9%
Reserves	0.0	0.0	0.2	0.2	0.4			(0.0,0)	(0.0.0)	(570)	5,0	0.07
Minorities	0.0	0.0	0.0	0.0	0.0							
	0.5	8.2	15.7	31.9	44.5							

Total Shareholder funds

Source: RaaS Advisory



FINANCIAL SERVICES GUIDE

RaaS Advisory Pty Ltd ABN 99 614 783 363

Corporate Authorised Representative, number 1248415

of

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AFSL 456663

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