

## Amaero International Ltd

## **Capital Raising & Earnings Adjustment**

## Additive Manufacturing

### 13th May 2022





- Six of the top-10 defence companies are clients
- Partnered with the world's foremost additive manufacturing R&D team at Monash Uni
- Strong board and advisory board with links into the decision makers in US and EMEA defence

#### **Downside Case**

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

- Australian titanium powder plant is commissioned
- Fletcher tooling opportunity presents globally
- Decision on 3D printing centre in Middle East
- Board agrees to 5x expand titanium powder plant

## **Board of Directors & Management**

David Hanna	Non-Executive Chairman
Stuart Douglas	Executive Director
Kathryn Presser	Non-Executive Director
Hank Holland <sup>^</sup>	Non-Executive Director
Barrie Finnin	Chief Executive Officer

^Subject to FIRB approval

#### Company Contacts

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\*The analyst holds shares

## Capital raised to deliver on growth options

Amaero International Ltd (ASX:3DA) is a global specialist in metal additive manufacturing for the defence, aerospace and tooling sectors. The company has announced it has raised US\$7.6m (A\$11m) at \$0.21/share from institutional investors led by US private equity fund Pegasus Growth Capital and a group of US institutional investors managed by the company's US strategic adviser Omer Granit. The funds will be used to finalise the installation and commissioning of 3DA's Melbourne titanium alloy powder plant, which will take Amaero to cashflow positive, and to identify and pursue US strategic alternatives with Guggenheim Securities. Pegasus Growth Capital's managing partner Hank Holland will join the Amaero board, subject to regulatory approvals. We have incorporated the raise together with the halfyear accounts and taken into account the recent Q3 cashflow report, resulting earnings adjustments to FY22 and FY23. In this report we have also dimensioned the impact of a fivefold expansion of the titanium alloy powder facility in CY2023, as outlined by the company in a March 2022 investor presentation, and this points to a DCF valuation of \$2.24/share or \$541m, based on a Ti64 price per kilo of US\$205. This compares with our current valuation of \$0.70/share, which incorporates the additional shares from the capital raise. Our base-case valuation, fully diluted for options conversion, is \$0.60/share.

#### Business model

Amaero generates revenues 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 and 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.

## Titanium powder facility is a game changer for Amaero

In an investor presentation (March 17, 2022), Amaero announced it planned to 5x its powder production at its under-construction titanium powder facility in CY2023. The company has previously announced the expansion for CY2025. This will provide an estimated revenue base of \$208m per year with the expansion expected to be debt-funded. Amaero highlighted that the ROI on the capital cost of equipment for the facility was less than six months. We have dimensioned the additional throughput, capex and estimated cost requirements of the 5x expanded case for the titanium facility (or 750tpa production) and estimate that it would lift our base-case valuation to \$541m or \$2.24/share. A 10x facility, which equates to annual output of 1,500tpa, lifts our base-case valuation to \$950m or \$3.93/share. This does not include Amaero's other projects such as the Middle East 3D printing centre or the global opportunity presented by the Fletcher tooling contract. We have also adjusted our forecasts for the capital raise, the H1 FY22 and Q3 FY22 results, and our assessment of project timing for the remainder of CY2022.

### Base-case DCF valuation is \$0.71/share, or \$170.1m

Our base-case DCF valuation is \$0.71/share based on the new share count post-raise and earnings adjustments we have made for cashflows this year to date. We capture the first phase of the titanium powder facility in our forecasts which is expected to be fully operational by year end and current contracts with Fletcher, Boeing and Gilmour Space Technology but not the Middle East 3D printing centre or larger Fletcher opportunity.

## Historical earnings and RaaS forecasts (in \$A unless otherwise stated)

Y/E	Sales revenues	Gross profit	EBITDA	NPAT	EPS (c)	EV/Sales (x)
06/21e	0.5	0.9	(4.8)	(6.2)	(3.3)	nm
06/22e	1.3	0.9	(7.0)	(7.9)	(3.8)	37.3
06/23e	39.0	15.2	4.6	3.3	1.3	1.4
06/24e	75.4	35.4	24.0	22.0	6.9	0.5

Source: Company data for historicals; RaaS estimates for FY22e, FY23e and FY24e



## **Capital Raising Details**

Amaero has announced it has raised US\$7.6m, or A\$11m, at \$0.21/share from institutional investors led by US private equity fund Pegasus Growth Capital and a group of US institutional investors managed by the company's US strategic adviser Omer Granit. Pegasus Growth Capital's managing partner Hank Holland will join the board subject to regulatory approval, including Foreign Investment Review Board approval of the investment.

The funds were raised by way of:

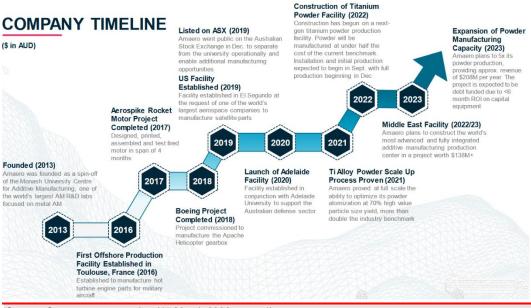
- A placement of US\$5.7m (A\$8.2m) to institutional investors led by Pegasus Growth Fund at \$0.21/share, which was a nil premium to the last close on 9 May; and
- The issue of a US\$1.95m (A\$2.8m) senior convertible note to Pegasus Growth Fund, with a coupon rate of 2.25% for the first year, a three year maturity and a one-year anniversary mandatory conversion upon FIRB approval for the foreign ownership increase. The coupon rate increases to 15% for the second two years should the conversion not take place.

All new shares, including the shares to be issued on conversion of the note, will have one option for every two shares subscribed for. The funds will be used to finalise the installation and commissioning of the titanium alloy powder plant and to identify and pursue US strategic alternatives. In March, the company engaged global investment and advisory firm Guggenheim Securities to assist it with the evaluation of strategic alternatives including potentially listing in the US.

## The Impact Of A 5x Titanium Powder Facility On Valuation

Amaero is progressing its 150tpa titanium powder facility in Melbourne and expects construction to be finalised and commissioning to commence in Q3 CY2022. The company expects the plant to be at full production by December 2022. The plant will enable Amaero to produce aerospace-grade titanium at half the cost of the nearest competitor, delivering annual revenues of an estimated \$42m a year in the first stage. In its presentation in March, Amaero announced it would look to increase the facility's capacity five-fold in 2023 (previously 2025).

Exhibit 1: Amaero company timeline including expansion plans in CY2023



Source: Company presentation (17 March 2022, page 4)



With such an imminent upgrade, we thought it would be beneficial to consider the valuation upside this potentially presents. Our current forecasts include production from a 150tpa facility from CY2023 and have incorporated revenues of \$23m in FY23 just from the titanium alloy powder plant and \$42.5m in FY24, its first full year of operation.

In our 5X scenario we use the following parameters:

- A Ti64 price of US\$205/kilo;
- A higher production and cost base from H2 CY2023; and
- Expectation of full capacity at the end of CY2025.

This results in our revenue forecast from the powder facility increasing to \$59m in FY23, \$115m in FY24 and \$200m in FY25. This derives a base-case valuation of **\$541m or \$2.24/share** based on the same parameters used in our current valuation.

A 10X scenario (or a 1,500 tpa facility), which we dimension from FY27, would result in a significant uplift in our base-case valuation to \$3.94/share as we set out in the following exhibit.

Exhibit 2: Valuation, revenue and EBITDA impact of 5x and 10x increase in titanium alloy powder facility on our current base-case forecasts and valuation							
	Current	5x	10x				
DCF valuation \$m	170	541	952				
DCF valuation per share	\$0.70	\$2.24	\$3.94				
Revenue FY23	39.0	47.0	47.0				
EBITDA FY23	4.6	9.1	9.1				
Revenue FY30	184.0	347.4	551.1				
EBITDA FY30	54.1	145.3	277.6				
CAGR in revenue %	16.8	22.1	27.9				
Source: RaaS estimates and analysis	is						

As we have discussed in previous reports, our model dimensions, but currently does not include in our forecasts or valuation, two other significant opportunities being contemplated by Amaero:

- A \$108m additive manufacturing facility in the Middle East which Amaero is negotiating to build and operate on behalf of a sovereign authority. This would result in Amaero receiving ongoing management fees for the project; and
- An extension of the Fletcher tooling opportunity to the global market for manufacturing Pink Batts<sup>TM</sup>. Amaero has developed a more cost-effective, stronger tool which could be adopted by all manufacturers of Pink Batts<sup>TM</sup>.

These two projects together with the 10x opportunity potentially take **our valuation to \$4.52/share** on the new share count post this raise.

## Key Points From H1 FY22 Result And Q3 FY22 Quarterly

Amaero reported H1 FY22 revenues of \$1.0m, up 80% on the previous corresponding period (pcp) and predominantly due to R&D tax incentives. The underlying EBITDA loss for the half was \$2.95m, up 54% on the pcp but better than our forecast for a \$3.74m operating loss. Underlying NPAT was a net loss of \$3.51m compared with our forecast for \$4.00m for the same period. H1 FY22 was all about setting the scene for the remainder of FY22 and FY23. During the half, the company signed a Heads of Agreement with Gilmour Space Technologies which will lead to a long-term supply agreement expected to generate ~\$1.7m in revenues over the three-year term. Amaero also progressed its key projects with Fletcher Insulation and Rio Tinto, with positive test results recorded for the spinner tools for Fletcher and the first batch of Rio's alloy billets atomised into powder with testing now commenced.



The company's Q3 FY22 results, reported in late April, saw cash receipts of \$0.16m, up 78% on the pcp and 19.4% on Q2 FY22. The operating cashflow loss for the quarter was \$1.39m after including R&D grants of \$0.84m. This brings the operating cashflow loss for the year to date to \$5.87m.

## **Earnings Adjustments**

We have adjusted our FY22 and FY23 forecasts to reflect the revenues the company generated in H1 FY22, the cash receipts received in Q3 and our expectation that the timing of several projects will be pushed into FY23. Note that our forecasts reflect timing changes to when projects commence rather than downgrades. We have also included the capital raise in our forecasts. Our forecasts for FY22 previously included an expectation for an early (Q4 FY22) commissioning of the 150tpa titanium powder facility. This may still occur but for prudence, we have shifted the commissioning into our Q1 FY23 forecasts with the expectation that the facility will be at full operational rate by Q4 FY23. We previously had expected this to occur in Q1 FY24. We have also pushed the full commercialisation of the Rio and Fletcher projects into FY23. These forecasts do not include the 5x expansion of the titanium powder facility discussed above, nor do they include the Middle East 3D printing sector or the expanded opportunity for the Fletcher tooling project. The result of these changes is that we have reduced our revenue expectations for FY22 but our forecasts for FY23 have lifted due to our expectation that the titanium alloy powder manufacturing plant will now be fully operational at the end of that financial year. Note that the titanium alloy powder facility makes up 60% of the revenues we are forecasting for FY23 with revenues also expected from the company's Fletcher tooling contracts, its Boeing contract and Gilmour Space Technology contract.

Year ending June 30	FY22 old	FY22 new	FY23 old	FY23 nev
Sales revenue	3.4	1.3	38.2	39.
Total revenue	4.3	2.0	38.2	39.0
EBITDA	(7.4)	(7.0)	3.1	4.0
NPAT	(8.0)	(7.9)	2.0	3.3
EPS	(3.9)	(3.8)	0.83	1.23

## **DCF Valuation**

In our view, given the early-stage nature of Amaero's business, the discounted cashflow methodology is 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 \$170.1m or \$0.70/share on the new share count of 241.9m. We use an equity risk premium of 6.5% and risk-free rate of 2.0%, but note that the current 10-year Australian Treasury bond rate is at 3.5%.

On a fully diluted basis, assuming all options attached to the share issue and the convertible note converts to shares, the valuation is \$0.60/share.

Exhibit 4: DCF valuation (in A\$m unless otherwise stat	ted)
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%
Sum of PV (A\$M)	71.7
PV of terminal value (A\$m)	84.8
PV of enterprise	156.5
Net cash at December 31, 2021	(13.6)
Net value – shareholder	Ì70.1
No. of shares on issue (post raise)	241.9
NPV in A\$	\$0.70
Source: RaaS analysis	



Exhibit	5: F	inancial	Summary

Amaero International Ltd						Share price (12 May 2022	2)				A\$	0.2
Profit and Loss (A\$m)						Interim (A\$m)	H121A	H221A	H122F	H222F	H123F	H223I
Y/E 30 June	FY20A	FY21A	FY22F	FY23F	FY24F							
						Sales Revenue	0.1	0.4	0.2	1.0	13.5	25.
Sales Revenue	0.1	0.5	1.3	39.0	75.4	EBITDA Adj	(1.9)	(2.9)	(3.0)	(4.0)	(1.3)	5.
Total Revenue	0.3	1.3	2.0	39.0	75.4	EBIT Adj'	(2.5)	(3.5)	(3.5)	(4.4)	(1.9)	5.
Gross Profit	0.2	0.9	0.9	15.2	35.4	NPAT (Adj)	(2.6)	(3.6)	(3.6)	(4.4)	(1.8)	5.
EBITDA Adj	(4.3)	(4.8)	(7.0)	4.6	24.0	Minorities	-	-	-	-	-	-
Depn	(0.5)	(1.1)	(0.9)	(1.4)	(2.0)	NPAT (reported)	(2.8)	(4.2)	(3.5)	(4.4)	(1.8)	5.
Amort	0.0	0.0	0.0	0.0	0.0	EPS (Adj)	(1.59)	(1.69)	(1.76)	(2.07)	(0.76)	2.0
EBIT Adj	(4.8)	(6.0)	(7.8)	3.2	22.0	· •/	(1.59)	(2.11)	(1.73)	(1.82)		1.9
Interest	(0.2)	(0.2)	(0.1)	0.1	0.1	Dividend (cps)	- '	-	-	-	-	-
Tax	0.0	0.0	0.0	0.0		Imputation	-	-	-	-	-	-
Minorities	0.0	0.0	0.0	0.0		Operating cash flow	(2.8)	(2.1)	(4.4)	(2.5)	(1.6)	5
Equity accounted assoc	0.0	(0.0)	0.0	0.0		Free Cash flow	(2.4)	(1.8)	(2.4)			9
NPAT pre significant items	(4.9)	(6.2)	(7.9)	3.3		Divisions	H121A	H221A	H122F	H222F		H223
		. ,	. ,									
Significant items	(0.8)	(0.8)	0.0	0.0		Sales and service revenue		0.4	0.2			25.
NPAT (reported)	(5.8)	(7.0)	(7.9)	3.3	22.0	R&D grants	0.6		0.8			0.
Cash flow (A\$m)	=1/0.1	=>/0.4.4		=1/22=	=>/2./=	Total Revenue	0.7	0.6	1.0			25.
Y/E 30 June	FY20A	FY21A	FY22F	FY23F	FY24F		0.1	0.3	0.4	0.8		14.
EBITDA	(4.3)	(4.8)	(7.0)	4.6		Gross Profit	0.6	0.3	0.6			11.
Interest	(0.2)	(0.2)	(0.1)	0.1		R&D costs	(0.8)	(1.0)	(1.2)	(1.2)		(1.3
Tax	0.0	0.0	0.0	0.0		Employment	(0.6)	(0.7)	(0.8)	(1.3)		(1.9
Working capital changes	0.2	0.2	0.1	(0.7)		General & Admin costs	(0.7)	(1.4)	(1.0)	(1.1)	(1.3)	(1.4
Operating cash flow	(4.2)	(4.9)	(7.0)	4.0	25.9	Other costs	(0.4)	(0.2)	(0.6)	(0.7)	(0.8)	(0.9
Mtce capex	0.0	0.0	0.0	0.0	0.0							
Free cash flow	(4.2)	(4.9)	(7.0)	4.0	25.9	EBITDA	(1.9)	(2.9)	(3.0)	(4.0)	(1.3)	5.
Growth capex	(3.9)	(0.7)	(6.0)	(8.0)	(8.0)							
Acquisitions/Disposals	0.0	0.0	0.0	0.0	0.0	Margins, Leverage, Return	s	FY20A	FY21A	FY22F	FY23F	FY24
Other	0.0	0.0	(0.0)	0.0	0.0	EBITDA		nm	nm	(555.3%)	11.7%	31.89
Cash flow pre financing	(8.1)	(5.6)	(13.0)	(4.0)	17.9	EBIT		nm	nm	(625.2%)	8.2%	29.19
Equity	13.5	13.8	11.0	0.0	0.0	NPAT pre significant items		nm	nm	(630.9%)	8.3%	29.3%
Debt	(0.2)	(0.2)	0.0	0.0		Net Debt (Cash)		4.0	11.5			22.
Dividends paid	0.0	0.0	0.0	0.0		Net debt/EBITDA (x)	(x)	n/a	n/a	n/a	1.1	1.
Net cash flow for year	5.2	8.1	(2.0)	(4.0)		ND/ND+Equity (%)	(%)	(96.3%)	(303.3%)	(100.3%)	(29.4%)	(110.8%
Balance sheet (A\$m)			( - /	/		EBIT interest cover (x)	(x)	n/a	n/a	n/a	- 0.0	- 0.0
Y/E 30 June	FY20A	FY21A	FY22F	FY23F	FY24F			(71.7%)	(37.9%)	(37.6%)		50.6%
Cash	4.0	11.5	8.9	4.8		ROE		(133.2%)	(59.6%)	(47.9%)		68.29
Accounts receivable	0.1	0.2	0.4	5.2		ROIC		(199.1%)	(240.4%)	(288.1%)		376.19
Inventory	0.5	0.8	0.4	1.1		NTA (per share)		0.05	0.08	0.07	0.08	0.17
Other current assets	0.1	0.1	0.4	0.4		Working capital		(0.1)	(0.1)	(1.0)		(2.2
Total current assets	4.8	12.5	10.1	11.6		WC/Sales (%)		(121.6%)	(23.3%)	(79.6%)		(2.9%
PPE	7.4	6.1	11.9	18.6		Revenue growth		nm	332.4%	148.7%	3011.4%	93.2%
Intangibles and Goodwill	0.0	0.0	0.0	0.0		EBIT growth pa		n/a	n/a	n/a	(140.7%)	587.89
Investments	0.0	0.3	0.4	0.4		Pricing		FY20A	FY21A			FY24
Deferred tax asset	0.0	0.0	0.0	0.0		No of shares (y/e)	(m)	175	203	242	255	255
Other non current assets	0.0	0.0	0.0	0.0	0.0	., ,	(m)	143	145	212	245	255
Total non current assets	7.6	6.6	12.5	19.1	25.1	THOUSING AT DITOHATES	(111)	143	140	212	240	200
Total Assets	12.4	19.1	22.5	30.7		EPS Reported	one	(4.0)	(3.7)	(3.8)	1.3	6.
Accounts payable	0.8	1.1	1.8	6.7		EPS Normalised/Diluted	cps cps	(3.5)	(3.7)			6.
Short term debt		0.0	0.0	0.0			ups			n/a (3.0)		422.0%
	0.0					EPS growth (norm/dil)	one	n/a	n/a		(134.3%)	422.0%
Tax payable	0.0	0.0	0.0	0.0		DPS	cps					-
Other current liabilities	0.4	0.4	0.5	0.4		DPS Growth		n/a	n/a			n/
Total current liabilities	1.2	1.5	2.3	7.1		Dividend yield		0.0%	0.0%	0.0%		0.09
Long term debt	0.0	0.0	0.0	0.0		Dividend imputation		0				
Other non current liabs	2.9	2.5	2.4	2.4		PE (x)		-	-	-	17.5	3.4
Total long term liabilities	2.9	2.5	2.4	2.4		PE market		23.3				23.
Total Liabilities	4.1	3.9	4.7	9.5		Premium/(discount)		nm	nm	nm	nm	nm
Net Assets	8.2	15.2	17.8	21.3	43.3	EV/EBITDA		nm	nm	nm	nm	nm
						FCF/Share	cps	(2.42)	(2.41)		1.55	10.1
Share capital	14.0	27.2	38.7	38.7	38.7	Price/FCF share		(9.5)	(9.6)	- 8.0	14.8	2.3
Accumulated profits/losses	(5.9)	(12.9)	(21.3)	(18.0)	4.1	Free Cash flow Yield		(10.5%)	(10.5%)		6.7%	44.29
Reserves	0.0	0.9	0.4	0.6	0.6			· '		. ,		
Minorities	0.0	0.0	0.0	0.0	0.0							

Source: Company data for historicals, RaaS estimates



# FINANCIAL SERVICES GUIDE

# RaaS Advisory Pty Ltd ABN 99 614 783 363

**Corporate Authorised Representative, number 1248415** 

of

ABN 92 168 734 530
AFSL 456663

Effective Date: 6th May 2021



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- how we transact with you
- how we are paid, and
- complaint processes

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In writing to: Australian Financial Complaints Authority, GPO Box 3, Melbourne, VIC, 3001.

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