

The background of the slide is a dark, industrial scene. In the center, a bright orange and yellow spark shower is erupting from a point of contact, likely a laser cutting or welding process. The sparks are thin, elongated, and radiate outwards. To the right, a blue industrial machine component is visible, featuring a large threaded bolt. The overall lighting is dim, with the primary light source being the sparks themselves.

MARCH 2021



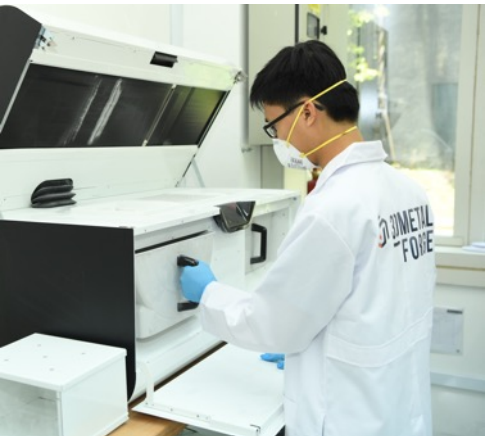
3D METAL FORGE | INVESTOR PRESENTATION






PIONEERS OF INTELLIGENT ADDITIVE MANUFACTURING (AM)

EVERY 8 MINUTES

A PART IS PRINTED
IN OUR FACILITIES



-  **Leading Additive Manufacturing (AM) company** that supports a growing and multi-national blue-chip client base with their 3D metal printing requirements
-  **Full range of in-house metal printing services** from design and engineering, material advisory, diagnostics and testing to printing and post production
-  **Proprietary novel technology** and processes that produce faster, cheaper, better and more sustainable AM parts and eco-system services

BENEFITS OF OUR TECHNOLOGY

Swivel joint printed in Stainless Steel 316L on powder bed printer

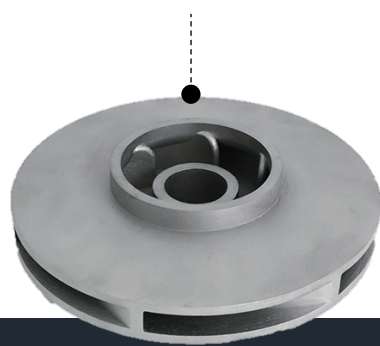


EXTENDS LIFESPAN OF OLDER EQUIPMENT

Saves entire systems by reverse engineering and printing obsolete parts

Saves \$000's in replacement costs

Pump impeller printed in 25% of legacy manufacturing



REDUCES STORAGE & INVENTORY COSTS

Reduces storage costs and delivery times by printing locally on demand

Up to \$5k per part and months faster

Trim printed in Inconel 625 with intricate internal channels



IMPROVES PRODUCTIVITY

Improves manufacturing productivity by printing complex parts in one piece

~10-20% savings of productivity on suitable parts

Air filter parts printed in 50% less time at 40% of cost of traditional manufacturing

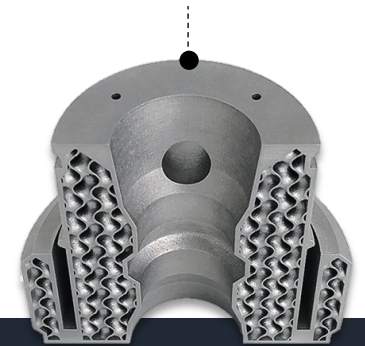


REDUCES WASTE

Reduces material waste by building additively not subtractively

Up to 20-30% on high value parts

Hanger designed with bio mimicry lattice to reduce weight by 30%



IMPROVES PART PERFORMANCE

Improves part performance and longevity by re-designing parts for AM

~15-30% material savings

MORE THAN AN ADDITIVE MANUFACTURER

CLIENT LAYER

*Custom offerings to
drive revenue growth*



**Diagnostic
inventory
analysis**



**Design
services**



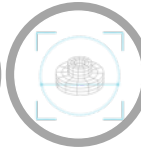
**Part
production**



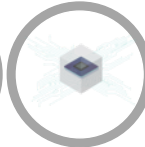
**Client
facility
operation**



**Education
and training**



**Licensing
AM designs**



**Inventory
and cloud IP
management**

INTELLIGENCE LAYER

*Produce cheaper,
faster, better and more
sustainable parts at
scale – leveraging data
on >20,000 parts
designed and printed*

Site diagnostic to identify suitable parts for AM

AM production management

AM quality management system

AM design system

HydroAM

Fast cheap
post
production

VisioAM

Hybrid
printing on
DED printers

StoreAM

Huge
structured
digital library

SecureAM

Cloud IP hash
chain security
and access

FacilityAM

Setting up
and running
client AM
facilities

DataAM

Production
data and
analytics

MaterialAM

Machine
learning
accelerated
material
development

INTEGRATION LAYER

*Integrate 3rd party
printers, software
and materials*

PRINTERS

Powder
bed fusion

Directed
energy
deposition

Multi-jet
fusion

FDM

SOFTWARE

AM design
software

Simulation
software

Design
software

MATERIAL

Traditional
materials

AM
specific
material

OUR MANUFACTURING FACILITIES



RANGE OF CUTTING-EDGE PROPRIETARY PRINTERS

SCIENCE PARK AMC



Powder Bed Fusion (SLM)

Highly detailed, small (30cm) metal parts. Wide range of metals



Blown powder Directed Energy Deposition (DED)

Large format (upto 1.5m) faster printer with resolution of +/- 1mm; machining to net shape

PORT AMC



Hybrid Wire Arc (H-WAAM) DED printer

Extremely large and fast printer for large lower resolution parts with machining to net shape



Polymer print farm (FDM)

20 FDM printers for ABS, PVC, Nylon etc






Multijet fusion (MJF)

Industrial nylon printing

FULL SERVICE PROVIDER



IN-HOUSE DESIGN & ENGINEERING



-  In-house design and engineering
-  Full range of industrial design software
-  Design optimisation and DfAM capability




EXTENSIVE EXPERIENCE IN DESIGN AND PRODUCTION OF PARTS



HIGH FOCUS ON QUALITY

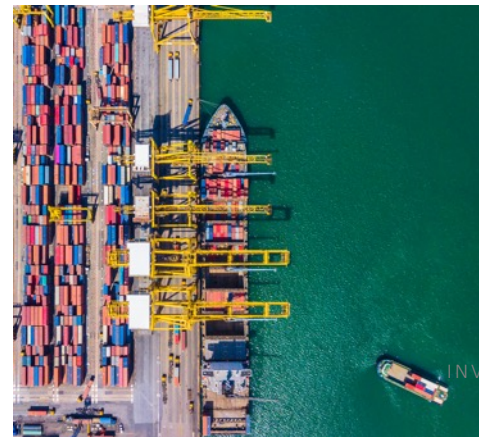
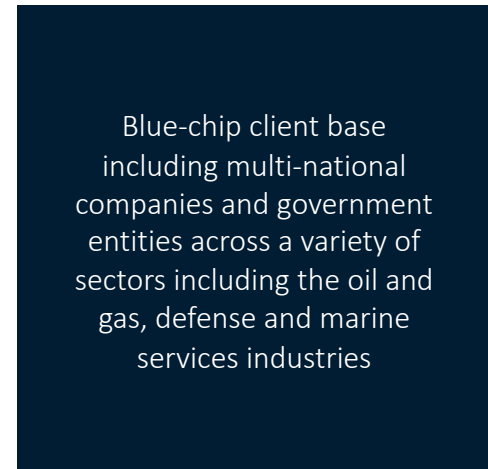
-  Production facility ISO 9001 certified
-  One of only 6 manufacturers certified by Lloyds Register to print metallic parts






-  On working groups of standard organisation



SELECT CUSTOMERS



3D METALFORGE'S PARTNERSHIP WITH PSA

-  Partnership with the world's 2nd largest port operator with 29 ports in 16 countries
-  2 year project to build an AM centre in the port to digitalise and move key spare parts supply to additive manufacturing
-  PSA will supply the facility set up and demand, 3MF will supply the printers and operations team



STATUS


Parts are identified
and digitised

New facility
is set up


Global first Hybrid Wire Arc
printer supplied by 3MF is set
up, currently in testing and
commissioning pending
commencement of
production

RECENT LANDMARK ADDITIVE MANUFACTURING PROJECT



 ABS, Sembcorp Marine, 3D Metalforge and ConocoPhillips Polar Tankers Inc. (Polar) have successfully fabricated, tested, and installed functional additive manufactured parts on board the oil tanker Endeavor






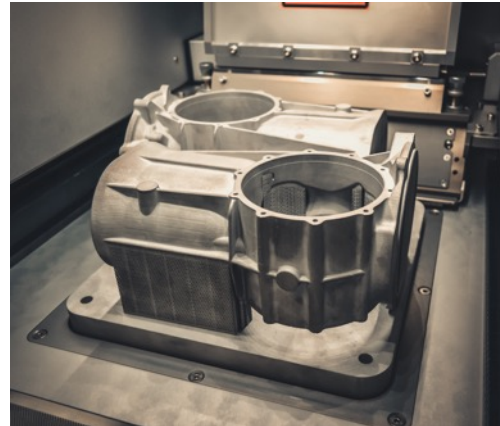
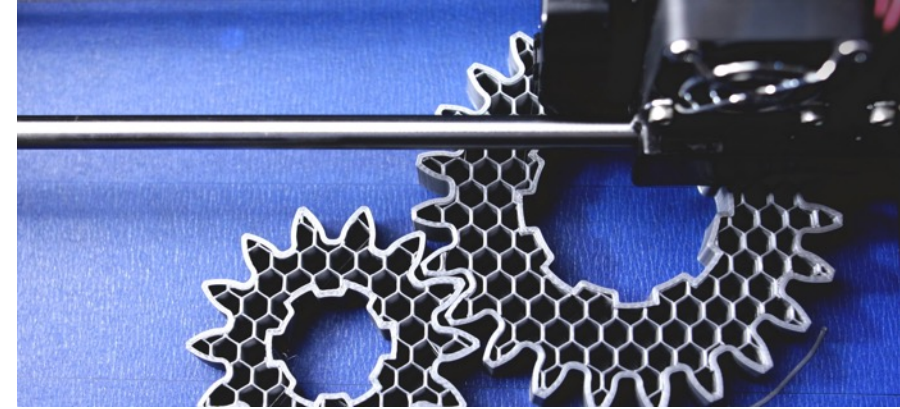
 Traditionally, parts used in shipbuilding and repair are manufactured via casting or forging techniques. For this project, the consortium aimed to utilize Additive Manufacturing to fabricate three types of parts that surpass conventionally manufactured products in terms of quality

"The collaboration with ABS and 3D Metalforge is a continuation of Sembcorp Marine's drive to innovate and improve our production capacities and capabilities. This development enables Sembcorp Marine to further refine our products and deliver customized solutions safely and more efficiently."

Sembcorp Marine Head of Research & Development - Mr. Simon Kuik





WHAT IS ADDITIVE MANUFACTURING (AM)?

-  Transformative approach to industrial production that enables the creation of lighter, stronger parts and systems
-  AM uses a computer controlled process that creates three dimensional objects by **depositing materials in layers**
-  AM applications are almost limitless. The technology can be used to fabricate **end-use products on-demand** across multiple industries



AM is helping industries reduce development and manufacturing costs, increase production speed and produce new structures and shapes.

AM IS GROWING RAPIDLY, DRIVEN BY STRONG INDUSTRY TAILWINDS

-  Revival of domestic manufacturing near end use and greater sourcing of local components
-  Focus on autonomous high value manufacturing and a reduction in low value offshored production
-  Deep focus on cost cutting and profitability including cuts in waste and storage costs
-  Increased digitalisation of supply chain with increased flexibility

Source: Wohler's Report 2016, 2017, 2018, 2019; UPS "3D Printing: The Next Revolution in Industrial Manufacturing"

\$7.34 BN
2017

\$15.8 BN
2020

\$23.9 BN
2022

\$35.6 BN
2024

(USD \$Bn AM
products and
services market)

AM TO REDUCE ENERGY USAGE & CO2 EMISSIONS

AM CAN USE LESS ENERGY AND MATERIAL...

90% less material

Building objects up layer by layer, instead of using traditional machine processes which can reduce material needs and costs by up to 90%

Up to 25% of the energy

Remanufacturing parts through advanced additive manufacturing can also return end-of-life products to as-new condition using only 2–25% of the energy required to make new parts

DESIGN-EFFICIENT TECHNOLOGY

4-7% weight reduction in aircraft parts

A topologically optimised and 3D-printed part can accomplish the same task as the original part using less material

AND REDUCE CO2 EMISSIONS

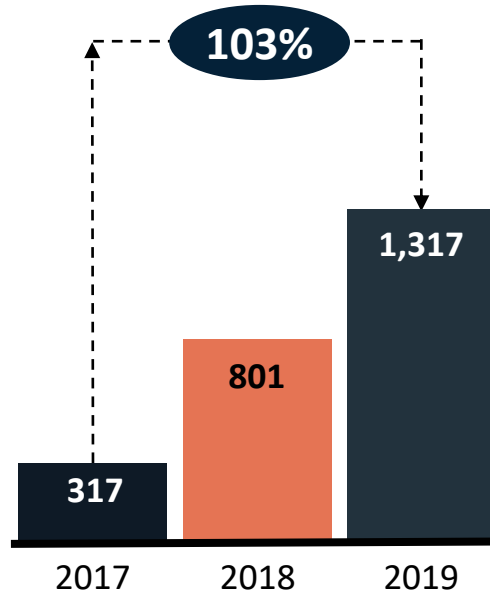
2M Tonnes CO2e saved

A major environmental benefit of 3D printing could be the reduction of 2 million tonnes in CO2 emissions between 2016-2025 in oil & gas industry alone, thanks to the reduced need to transport spare parts to and from remote areas

GROWING REVENUE BASE

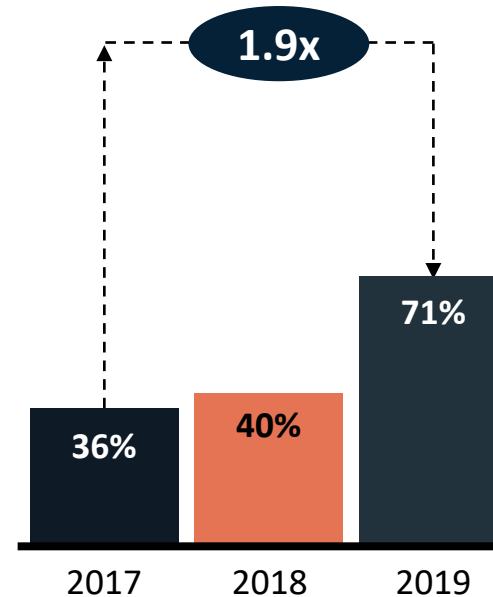
Revenue 103% CAGR

Revenue 2017-19 (S\$'000)



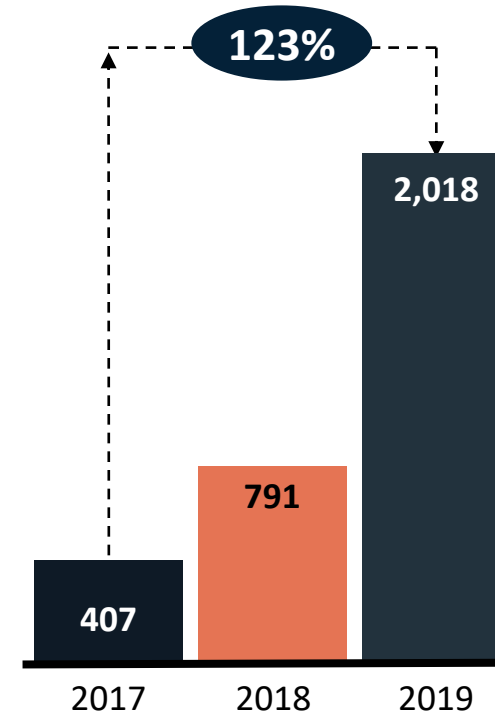
GM% doubling

Gross margin % 2017-19 (%)

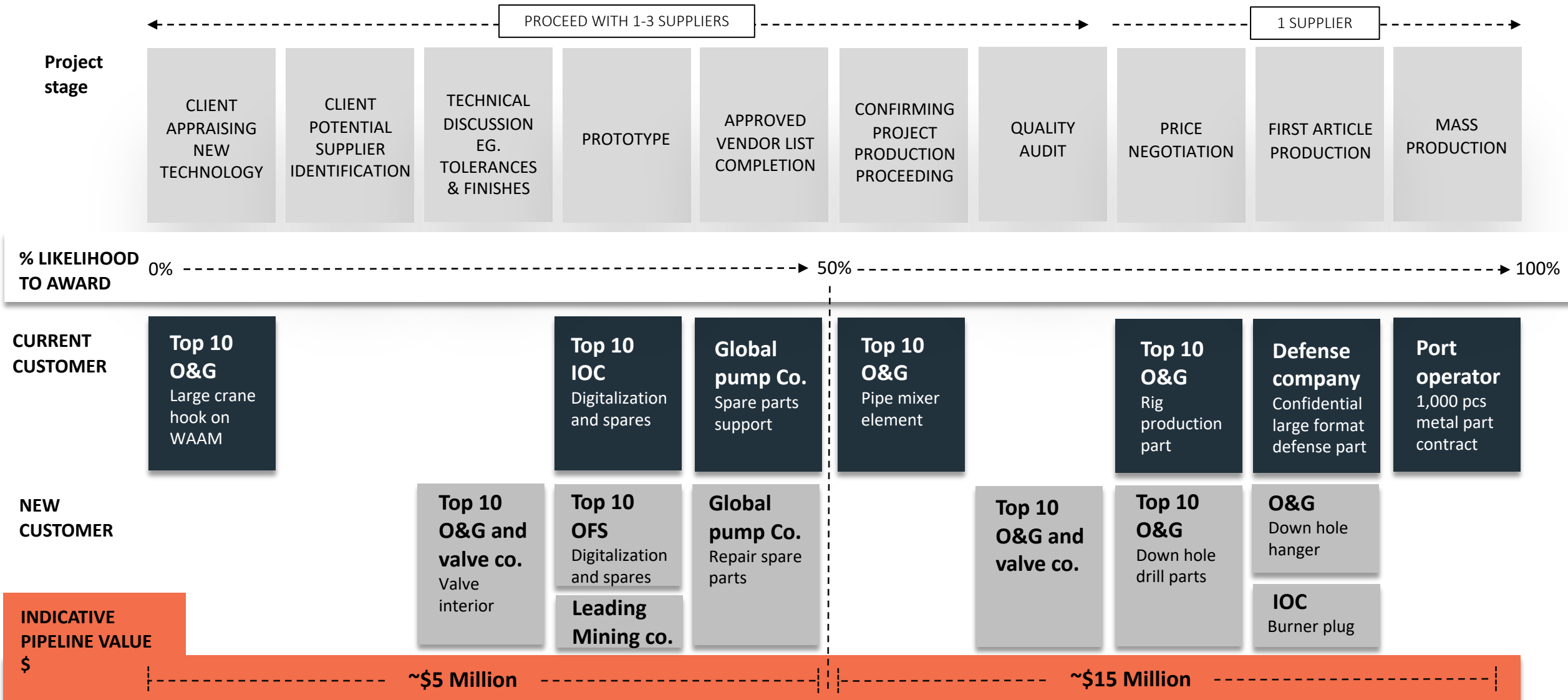


Orders 123% CAGR

New orders 2017-19 (S\$'000)



EXPANDING SALES PIPELINE

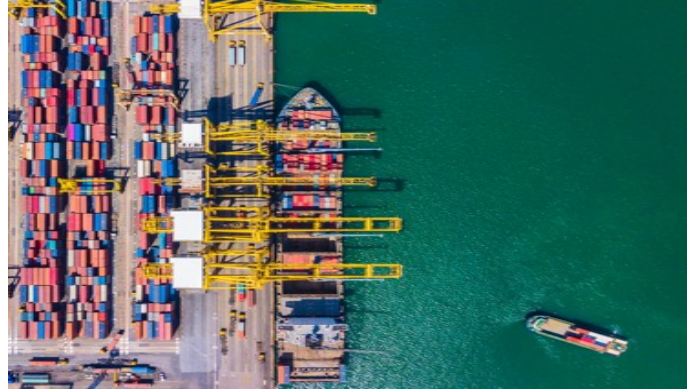


STRATEGIC GROWTH PRIORITIES







BUILD GLOBAL FOOTPRINT

-  Expand production capacity to accommodate market growth
-  4 Additive Manufacturing Centres (AMC's) in global centres for marine and oil & gas (Houston, Rotterdam, Dubai, Singapore)
-  Develop local key markets including Australia with focus on resource sector





CUSTOMER ACCELERATION

-  Embed AMCs in client supply chain to help key clients obtain benefits of AM
-  Qualified leads / sales pipeline continues to grow
-  PSA first roll out
-  Strategic Partner channels being developed to accelerate revenue growth



EXPAND OUR TECHNOLOGY

-  Continue to develop our intelligence layer
 - Faster more accurate printing
 - Faster process modelling
 - Feedback & monitoring
 - MaterialAM for new AM materials
 - DataAM to utilise print data
-  Complete operational development of Hybrid WAAM printer

EXPERIENCED BOARD & MANAGEMENT



Matthew Waterhouse
CEO, Founder

Matthew has over 20 years of Senior Management Experience in MNCs, including 7 yrs as Associate Principal at McKinsey & Co and COO for Keppel Integrated Engineering responsible for building \$1Bn+ infrastructure projects.



Michael Spence
Chairman

Michael is an angel investor with a portfolio of eight companies in Australia & SEA. He retired from full-time work in 2019 as a Senior Director of Partners in Performance, an operations improvement consultancy. He has 33 years' experience split between consulting (PIP & McKinsey & Company) and line management (Ford, ITT, Valeo, Ayala Corp).



Geoffrey A. Piggott,
Non-Executive Director

Geoff has over 50 years in infrastructure engineering in Sydney Water, Black & Veatch, Keppel Infra and Deep Tunnel Sewerage System.



Samantha Tough
Non-Executive Director

Distinguished career in the energy, resources and engineering industries as both a director and senior executive. Chair of Horizon Power, Chair of the National Energy Selection Panel, Director of Clean Energy Finance Corporation, Director of Buru Energy Limited (ASX: BRU), UWA PVC Engagement and former Director of Saracen Mineral Holdings Ltd (ASX:SAR)/Northern Star Resources and others.



David Buckley
Advisor

David is Chairman of Royal Bank of Canada (Europe) and formerly European CFO for Morgan Stanley and Intl Treasurer for Goldman Sachs.



NUMBER OF SECURITIES

EXISTING SHARES ON ISSUE

190,119,285

EXISTING OPTIONS ON ISSUE

1,300,000

% OF SHARES UNDER ESCROW

49.7% *

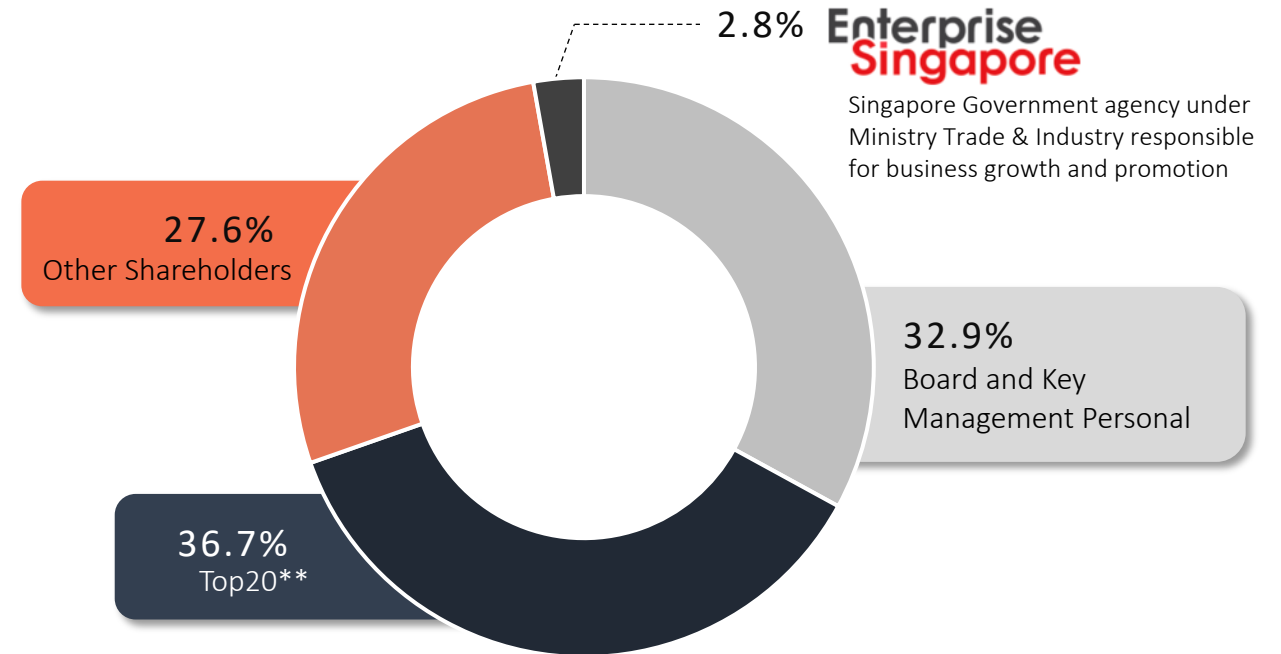
SHARE PRICE (8.3.21)

\$0.25

IMPLIED MARKET CAPITALISATION

A\$47.5M

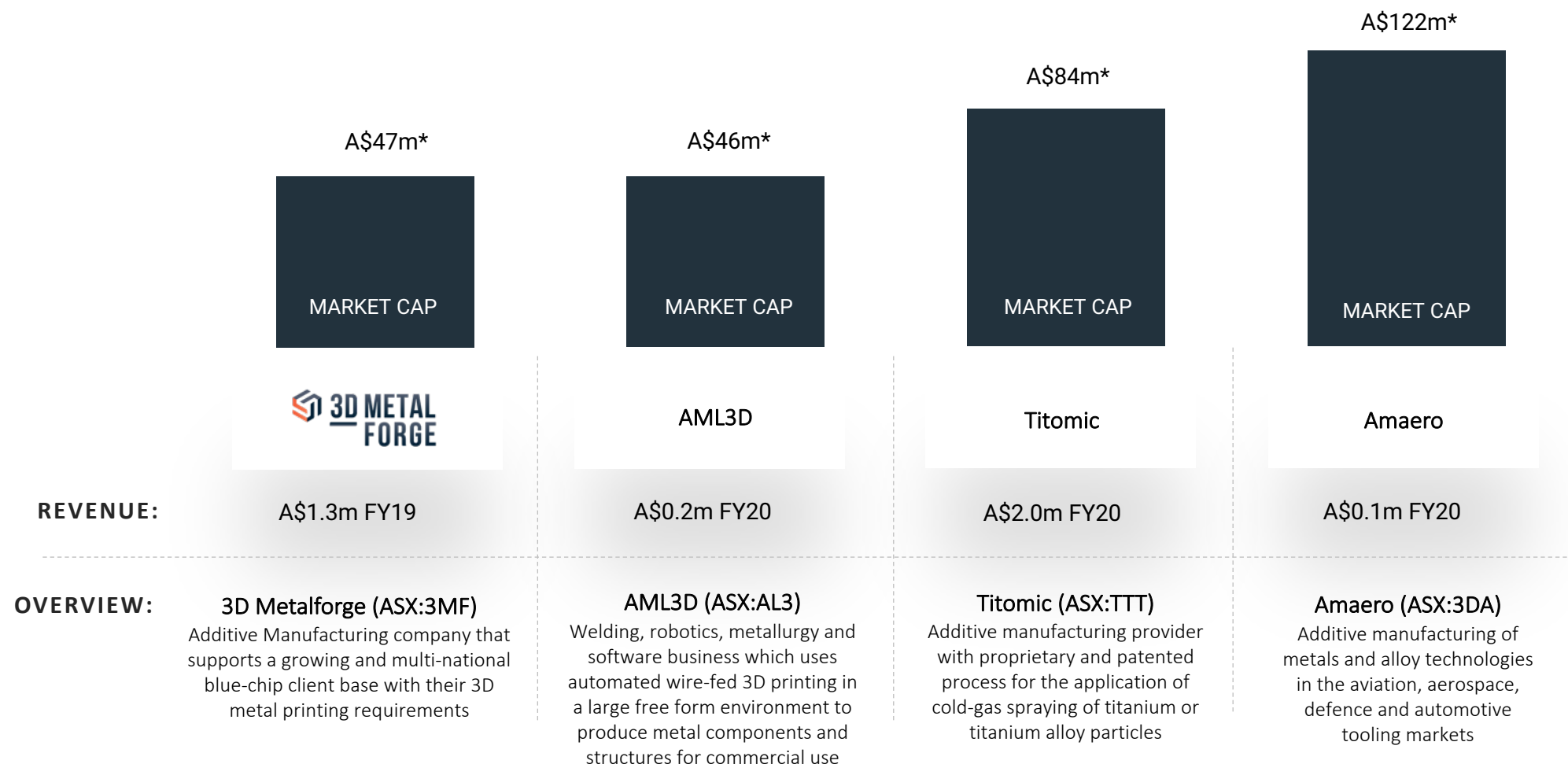
CORPORATE & CAPITAL STRUCTURE



* A total of 94,650,594 shares is subject to various escrow terms

** Excludes Board and KMPs in Top20

ASX PEERS SHOW POTENTIAL VALUE RE-RATING



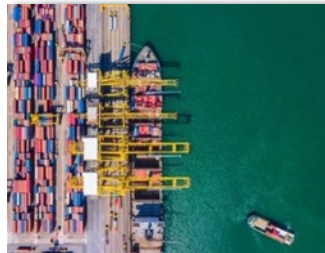
INVESTMENT HIGHLIGHTS



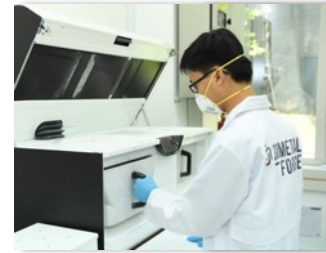
Established presence in
Singapore and Houston
(USA) and significant
market opportunity



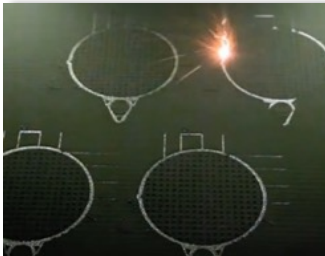
One of only 6
manufacturers certified by
LR to print metallic parts



Partnering with Global Clients
to digitalise spare parts and
produce parts on demand



High Caliber Team
supported by world class
Board and investors



Established Revenue Generating
business with >SGD\$1m in
revenue FY19 with blue chip
customer clients



Extensive Range of IP
protected by patents
and trade secrets

A close-up, low-angle shot of an industrial welding process. A bright, intense light at the point of contact creates a dense spray of orange and yellow sparks that fan out upwards. The background is dark and industrial, featuring a large, circular, metallic component at the top, possibly a fan or part of a machine. To the right, a blue-painted metal structure with various bolts and a threaded rod is visible. The overall atmosphere is one of intense industrial activity.

APPENDIX

EXTENSIVE RANGE OF IP

SIGNIFICANT R&D AND TECHNOLOGY DEVELOPMENT

Led R&D and technology development programs valued at over \$3M with our direct spend being almost \$1.5M

Worked with multiple institutes of higher learning and Govt organisations including NAMIC, SUTD, A*Star

	INTELLECTUAL PROPERTY	PROTECTION METHOD
PATENTS	<ul style="list-style-type: none"> • VisioAM (hybrid print strategy) • SecureAM (Metadata, hash chain data security) • HydroAM (support structure removal) • MaterialAM (parameters for new materials) 	<ul style="list-style-type: none"> • Patent pending • Patent pending • Patent pending • Patent being developed
TRADE SECRETS	<ul style="list-style-type: none"> • Build parameters and strategy for maraging steel • Manufacturing process operations • Additive QMS processes • FacilityAM - setting up AM facility • Detailed pricing strategies and cost sheet tool • Extensive AM supplier list • >250 industry NDA in place • Multiple Approved Vendor List agreements in place • Customer contact list (>3k) • SOPs for complex AM equipment • DataAM - Print log data for >3 years production • Build parameters for PVC and Nylon (in development) 	<ul style="list-style-type: none"> • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality • Confidentiality
LICENSES	<ul style="list-style-type: none"> • Directed Energy Deposition H-WAAM printer • Directed Energy Deposition Blown powder printer 	<ul style="list-style-type: none"> • Exclusive license • License
COPYRIGHT	<ul style="list-style-type: none"> • StoreAM - Print file library of >2,000 parts 	<ul style="list-style-type: none"> • Confidential copyright

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