

ARCEMY®

X EDITION

ARCEM
BY AML3D

Unleash the potential
of industrial metal 3D printing
with Wire-arc Additive Manufacturing



AML3D®

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When manufacturing industrial parts that are extra in size and extra in nature, you can't go past the ARCEMY® X Edition. With the most significant footprint of the fleet, ARCEMY® X features an impressive 3.2 m reach employing a 6700 robotic arm.

With a minimum safe print area of 500 mm wide by 500 mm long, and a maximum print area of 1.8 m by 1.8 m the ARCEMY® X Edition provides a more extensive working range perfect for using Wire-arc Additive Manufacturing industrial large-scale parts for aerospace, defense, maritime, oil & gas and heavy industries. Unlike other systems in the market, ARCEMY® operates in an open-air environment and is fully customizable to suit specific part or customer requirements.

ARCEMY® X configuration is not restricted, should a larger print area, or higher weight capacity be required for industrial metal 3D printing, AML3D can architect a solution to suit.

ARCEMY® metal 3D printing systems feature secure remote access capability and proprietary software WAMSoft® and AMLSoft™ as standard inclusions. With an ever-developing roadmap, annual software subscriptions ensure that all ARCEMY®s are up-to-date and utilizing the latest advancements in AML3D's patented WAM® technology.



Smart Laser Sensor

ARCEMY® offers the latest in intelligent laser sensor technology ensuring stable measurement while tracking surface regulation.

Perfecting Pyrometer

Temperatures are precisely measured with a state-of-the-art, high-speed infrared pyrometer for optimal temperature control.

Dynamic Cooler

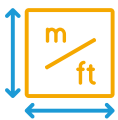
ARCEMY®s dynamic cooler manages interpass temperatures with feedback from the high-speed pyrometer and AMLSoft™

Advanced Arc

Fronius systems combined with AMLSoft™ provide ARCEMY® with the highest deposition rate possible for each certified metal wire feedstock variant without compromising the material properties.

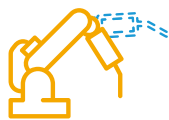
Material Diversity

ALUMINIUM	TITANIUM	COPPER ALLOYS	NICKEL ALLOYS	STEEL	STAINLESS STEEL
<ul style="list-style-type: none"> • ER2319 • ER4043 • ER5183 • ER5183 (0.2%Sc) • ER5356 	<ul style="list-style-type: none"> • Ti-6Al-4V Grade 5 • Ti-6Al-4V Grade 23 • CP-Ti 	<ul style="list-style-type: none"> • ERCuNiAl (NAB) • 90/10 • 70/30 	<ul style="list-style-type: none"> • FeNi36 (INVAR) • Inconel 622 • Inconel 625 • Inconel 718 	<ul style="list-style-type: none"> • ER70 • ER80 • ER90 • ER120-G 	<ul style="list-style-type: none"> • ER304 • ER310 • ER316LSi • ER410 • ER420 • Duplex ER2209 • Super Duplex ER2594



System Footprint

6.9 m w x 6.9 m l x 3.0 m h
22.6' w x 22.6' l x 9.8' h



Reach

3.2 m
125"



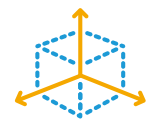
Max. Build Envelope

1.8 m x 1.8 m
71" x 71"



Weight Capacity

≤ 750 kg
≤ 1,653 lb



Axis

8
(with positioner)



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