

AERDEX

TECHNOLOGIES

MF-550

BROCHURE

MADE IN NORTH AMERICA.
TRUSTED BY ALL.



PRODUCT DESCRIPTION



MF-550

MF-550

The Mist-Fit MF-550 mist collector delivers high-performance air purification in a compact, space-saving design — ideal for modern machining environments.

Equipped with progressive multi-stage filtration, including our advanced filterbed filter, the MF-550 effectively captures and removes mist, smoke, and fine particles, ensuring cleaner air and reduced maintenance needs. Engineered for high-pressure applications, it provides consistent, reliable performance even in demanding conditions.

Its lightweight construction allows for flexible placement, while a wide range of over 50 mounting accessories makes installation simple across a variety of machine setups. Choose the MF-550 for a cleaner, safer, and more efficient workspace — without compromising on performance or footprint.

PRODUCT SPECS

Air Flow	500-600 cfm	Temp limit	50 °C / 125 °F
Machine Tool Enclo. Recom Volume	Up to 250 ft ³	Weight	57 lbs
Motor	0.75 hp	Length	14.9"
Voltage (Amps)	115/1/60 (4.9)	Width	14.9"
	220/1/60 (2.5)	Height	27.4"
	230/3/60 (1.57)	HEPA Filter	Optional
	460/3/60 (0.95)		
Inlet Connection	6"Ø		
Sound	68 dB(A)		
Coolant	30 - 3000 psi		
Oil	30 - 2000 psi		
pH limit	5.8 - 9.8		

FILTERS OVERVIEW

The Mist Fit MF-550 offers unmatched versatility with modular designs for optional prefilters and HEPA filters. User-friendly and efficient, easily replaceable filters minimize downtime, saving time and costs.

REPLACEMENT FILTERS



1ST STAGE MECHANICAL ELEMENT
MF55-F001



2ND STAGE DEMISTER ELEMENT
MF55-F002



3RD STAGE FIBRE BED FILTER
MF55-F007

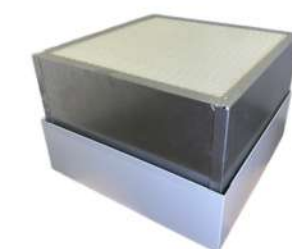


OPTIONAL 4TH STAGE FILTER
4" HEPA 95% MF55-F004
8" HEPA 99.9% MF55-F005
8" ODOR-RID FILTER MF55-F009

FILTER KITS



HEPA FILTER KIT 4" c/w HEPA FILTER 95%
MF55-F011



HEPA FILTER KIT 8" c/w HEPA FILTER 99.9%
MF55-F012



ODOR-RID FILTER KIT 8" c/w ODOR-RID FILTER
MF55-F013

OPTIONAL FILTERS



5TH STAGE PRE FILTRATION BOX
For oil and heavy mist, recommended for Swiss Screw Machines
MF55-F014

1st Stage Mechanical Element and 2nd Stage Demister Element



CARBON CANISTERS
CARB-0018

FILTER TECHNOLOGY



MF-550

- 1. Mechanical Element:** Separates up to 90% of coolant/oil mist and swarf, draining fluid back to the sump through smooth metal surfaces.
- 2. Demister Element:** Supports the first stage, removing up to 95% of mist and swarf with washable filters. 80% up to 5 microns.
- 3. Depth Loading Fibrebed Filter:** Rated MERV 15, its depth-loading offers up to 25 times more surface area than standard filters. Outclasses competitors with its thick composition, minimizing blockage and boosting efficiency. Built for longevity with a 1-3 year lifespan. 85% to 95% up to 0.3 microns.
- 4. Optional HEPA Filter:** Our optional HEPA filter comes in two variants: 95% efficiency at 0.3 microns or 99.97% at 0.3 microns providing solutions for the most demanding applications. These filters are made with exclusive heavy-duty filter media, ensuring exceptional performance and longevity.
- 5. Optional Pre-Filter Box:** Filtration module containing non-consumable mechanical element and demister filters. Recommended for oil and heavy mist, particularly beneficial for Swiss lathes. Significantly extends filter life.

Optional Carbon Filter Stage: Activated carbon cells can be added to absorb oil vapors, odors, and light chemical fumes. This stage is especially useful in specialty applications where vapor control and odor reduction are critical, enhancing overall air quality beyond particulate filtration.



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BASEPLATES

The baseplate stabilizes the Mist-Fit collector, preventing movement or vibration, ensuring efficient mist collection and reducing environmental disruptions.

BASEPLATES



STANDARD

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-B001
MF10-B001
MF19-B001



KIT FOR SURFACE GRINDER

MF-550
Base Only

MF55-A026 (Kit)
MF55-BD32
(Base only 4: & 2")



BLANK

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-B008
MF10-B008
MF19-B008



BASES WITH OIL DRAINS

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-BD10
MF10-BD01
MF19-BD17



SIDE MOUNT

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-B003
MF10-B003
MF19-B003



PLENUM

MF-550 & MF-750
MF-560 & MF-1050

MF55-B028
MF10-B014



PEDESTAL

MF-550 & MF-750
MF-560 & MF-1050

MF55-B004
MF10-B004



BASE W/TEE INLET

MF-1050
(For high liquid volume or spray cleaning elements.)

MF10-B015



OFF-SET PEDESTAL

MF-550 & MF-750
MF-560 & MF-1050

MF55-B005
MF10-B005



UNIVERSAL INSTALLATION KIT

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-A025
MF10-A024
MF19-A024

(Baseplate and machine stand sold separately.)

We offer an extensive selection of baseplates designed for seamless integration with leading machine brands and the option to manufacture custom baseplates tailored to your specific requirements:

Miyano

Star
CNC Machine Tool Corp.

DN
SOLUTIONS

NT
Nakamura-Tome

DMG
MORI

Matsuura

CITIZEN

& MANY MORE!

MF-550

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ACCESSORIES

INSTALLATION



SUSPENSION BRACKET

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-B007
MF10-B007
MF19-B007



MACHINE STAND

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-B002
MF10-B002
MF19-B002



WALL MOUNT

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-B006
MF10-B006
MF19-B006



FLOOR STAND ADJUSTABLE 6' - 8'

MF-550 & MF-750
MF-560 & MF-1050
MF-1950

MF55-B219
MF10-B219
MF19-B219

MISCELLANEOUS



CHIP STRAINER

MF-550, MF-560 & MF-750
MF-1050
MF-1950

MF55-A097
MF10-A011
MF19-A011



SUCTION HOSE

MF-550, MF-560 & MF-750
MF-1050
MF-1950

099MPH-0006
099MPH-0008
099MPH-0012



HOSE CLAMP

MF-550, MF-560 & MF-750
MF-1050
MF-1950

099AHC-0006
099AHC-0008
099AHC-0012



MACHINE ADAPTER

MF-550, MF-560 & MF-750
MF-1050
MF-1950

099AMS-0006
099AMS-0008
099AMS-0012

HOOD & CURTAIN

MODEL	HOOD	CURTAIN
MF-550 & MF-750	NOT AVAILABLE	NOT AVAILABLE
MF-560 & MF-1050	MF10-H001	MF10-HC01
MF-1950	MF19-H001	MF19-HC01

REPLACEMENT PARTS

MOTORIZED IMPELLER

MODEL	VOLTAGE		
	115/1/60	220/1/60	230/460/3/60
MF-550, MF-560 & MF-750	MF55-M115	MF55-M220	MF55-M460
MF-1050	N/A	N/A	MF10-M460
MF-1950	N/A	N/A	MF19-M460



STATUS GAUGE

MF-A031

COLLECTORS

THE MIST-FIT HIGH PERFORMING, COMPACT MIST COLLECTORS

The Mist-Fit is a line of compact yet powerful mist collectors designed to effectively remove harmful airborne particulates such as coolant and oil mist, a common byproduct of machining applications. Mitigate the risks associated with oil mist exposure to your personnel and facility by opting for an Aeroex Mist-Fit mist collector that meets your unique operational needs.



MF-550

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MOUNTING OPTIONS

MOUNTING OPTIONS

The Mist-Fit features flexible mounting options for maximum efficiency and customizability in industrial environments. It has a modular design that allows versatile installation in different arrangements and spots, with over 50 machine mount variations ensuring a seamless process.

DIRECT MOUNT

Suitable for compact spaces, it directly affixes the mist collector to the machine tool, minimizing the spread of airborne contaminants.

SUSPENDED MOUNT

Ideal for limited floor space or closely located machines, it attaches the collector to the ceiling for centralized collection of rising mist.

WALL MOUNT

Saves floor space by utilizing vertical space, ideal for smaller spaces or when other mounts are not feasible.

FLOOR STAND

Offers flexibility by placing the collector on an adjustable stand and connecting it with a suction hose, overcoming obstructions that prevent direct mounting.



DIRECT MOUNT OPTIONS

MACHINE SPECIFIC MOUNTING AVAILABLE

PEDESTAL



Elevates the collector, ideal for limited floor space and easy maintenance.

SIDE MOUNT



Attaches the collector to the side of the machine, maximizing available vertical space and keeping it near the mist source.

DIRECT MOUNT



Attaches the collector directly to the machine, minimizing contaminant spread in compact environments.

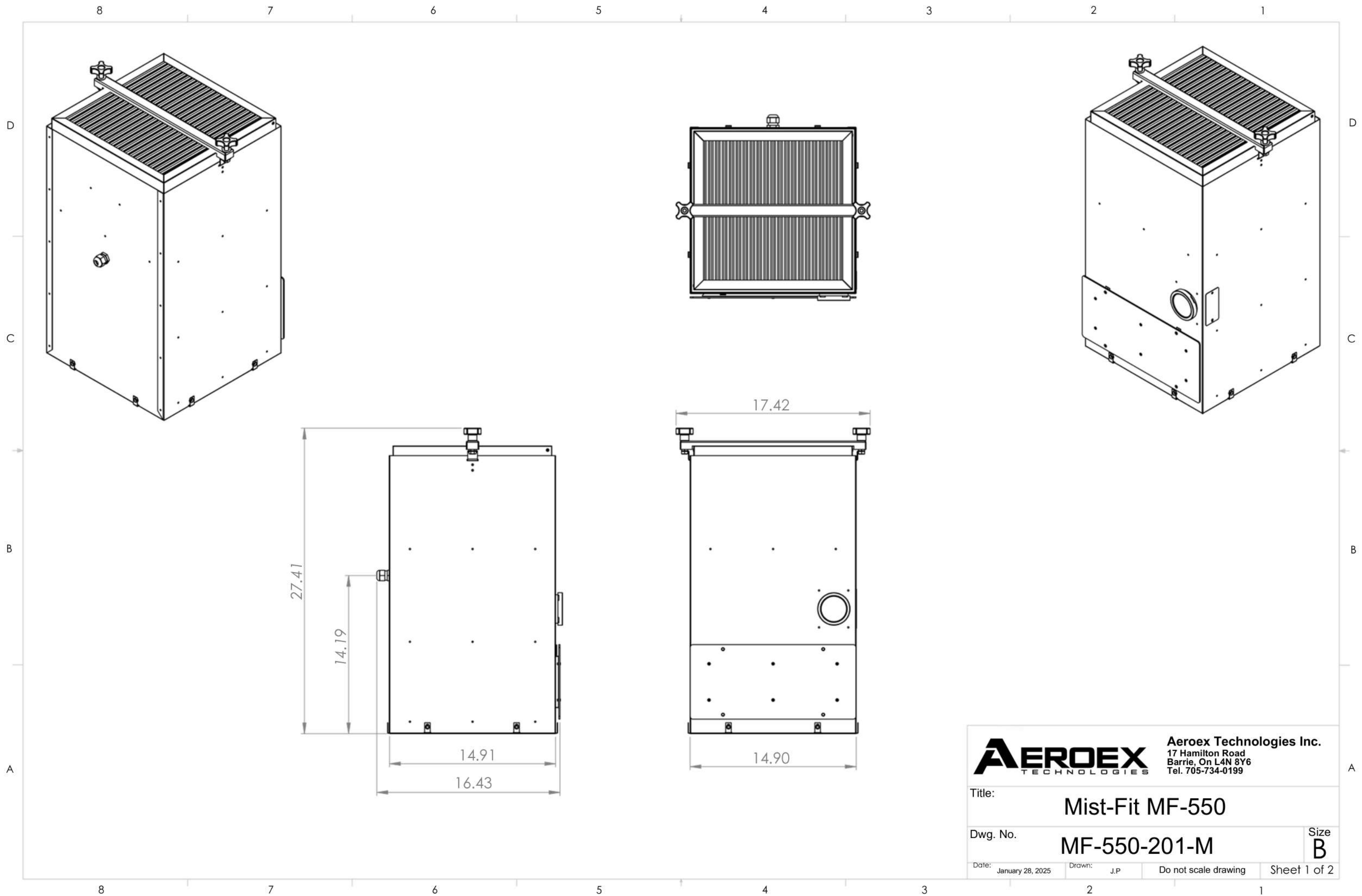
STAND & SUCTION HOSE



Places the collector on a free-standing structure connected by a suction hose, offering flexible positioning and easy relocation as facility or machine needs change.

MIST-FIT COMPARISON TABLE

SPECIFICATION	MF-550	MF-560	MF-750	MF-1050	MF-1950
AIR FLOW	500-600 cfm	500-600 cfm	700-800 cfm	900 - 1100 cfm	1900 - 2000 cfm
MACHINE TOOL ECN. RECOMMENDED VOL.	Up to 250 ft³	Up to 250 ft³	Up to 400 ft³	Up to 450 ft³	Up to 2000 ft³
MOTOR	0.75hp	0.75hp	1.5hp	1.5hp	3hp
VOLTAGE (AMPS)	115/1/60 (4.9) 220/1/60 (2.5) 230/3/60 (1.57) 460/3/60 (0.95)	115/1/60 (4.9) 220/1/60 (2.5) 230/3/60 (1.57) 460/3/60 (0.95)	230/3/60 (2.7) 460/3/60 (1.6)	230/3/60 (2.7) 460/3/60 (1.6)	230/3/60 (6.0) 460/3/60 (3.3)
INLET CONNECTION (STANDARD)	6" Ø	6" Ø	6" Ø	8" Ø	12" Ø
SOUND	68 dB (A)	68 dB (A)	68 dB (A)	69 dB (A)	72 dB (A)
pH LIMIT	5.8 - 9.8 a	5.8 - 9.8 a	5.8 - 9.8 a	5.8 - 9.8 a	5.8 - 9.8 a
TEMP LIMIT	50°C / 125°F	50°C / 125°F	50°C / 125°F	50°C / 125°F	50°C / 125°F



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Title:		Mist-Fit MF-550	
Dwg. No.		MF-550-201-M	
Date: January 28, 2025		Drawn: J.P.	
Do not scale drawing		Sheet 1 of 2	

Leave adequate clearance
to ceiling for filter changes

Access Door
Leave adequate clearance
for filter change

Hex Bolt 1/4"-20 (x4)
with 1/4" Sealing Washer

Mist-Fit MF-550

Base Plate

Hex Bolt 1/4"-20 (x8)
with 1/4" Sealing Washer

Base Plate 15.25" x 15.25"

CNC Machine Top

Cut a 6 inch diameter hole (minimum)
in a suitable location
if no machine knock out is provided

Drill clearance holes for 1/4" bolts
use Base Plate as a template
and drill to suit

Hex Nut 1/4"-20 (x4)

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TECHNOLOGIES

Aeroex Technologies Inc.
17 Hamilton Road
Barrie, On L4N 8Y6
Tel. 705-734-0199

Title:

Installation, MF-550, Base Plate

Dwg. No.

M05MBD-0011-D

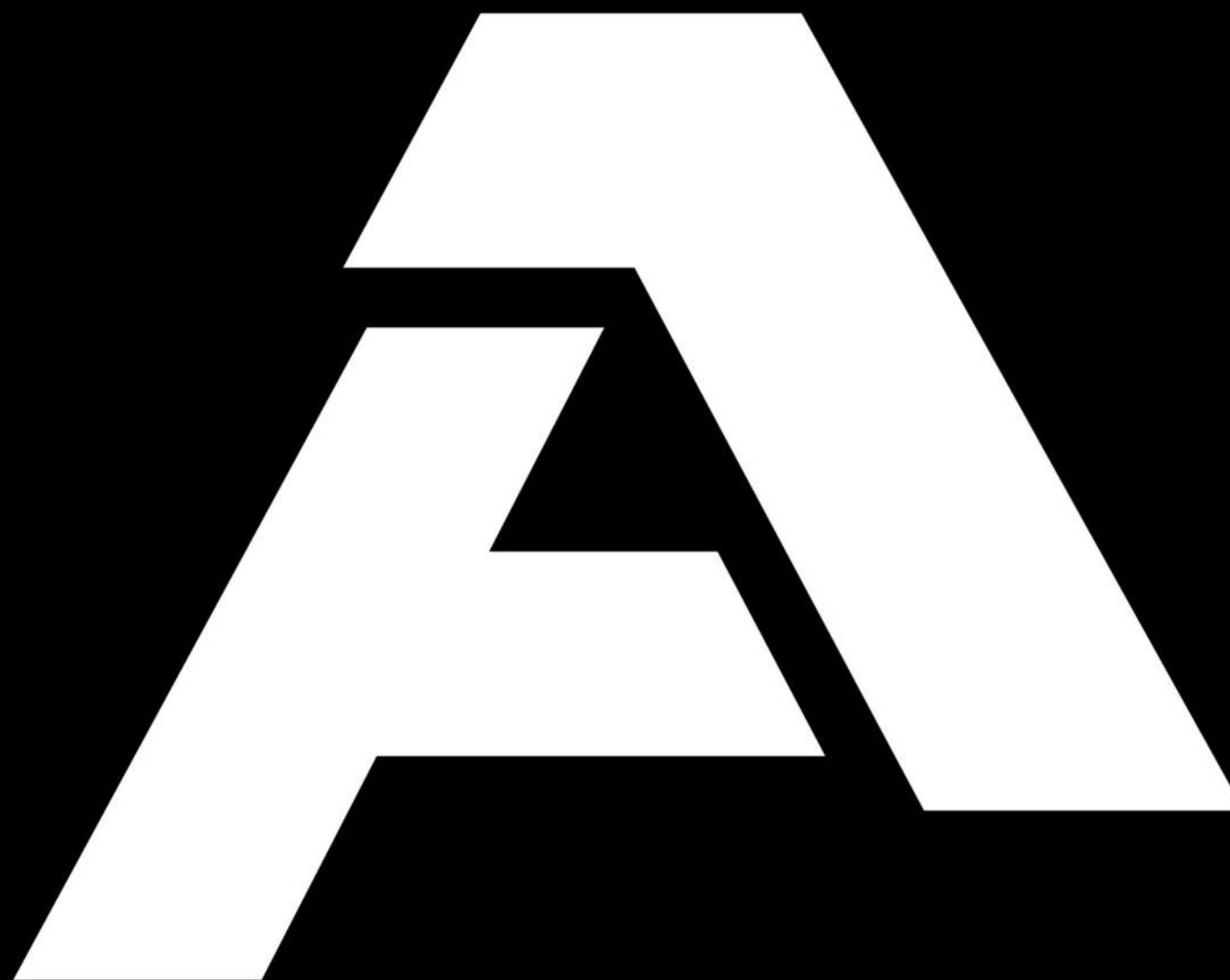
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Date: February 19, 2019

Drawn: T.B.

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Sheet 1 of 1



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