



THE MOBIUS TRIMMER M108

Designed and built for commercial-scale cultivators who demand high performance.

Every component has been custom-engineered for precision and efficiency. In addition to industry-leading processing speed, the M108 features an unprecedented spectrum of patented technology that provide the trimming solution to a modern harvesting workflow.

The following exploded view shows the various components and features that not only make the Mobius a completely unique and efficient machine, but also demonstrate the newly designed concepts that ensure it is safer to operate and fits within a GMP-certified facility.

AIRTHREAD TENSION TUMBLER

Constructed with aircraft-grade cable, provides the flower more than 50% increased access to blades (compared to traditional sheet-metal tumblers).

OUTPUT CHUTE

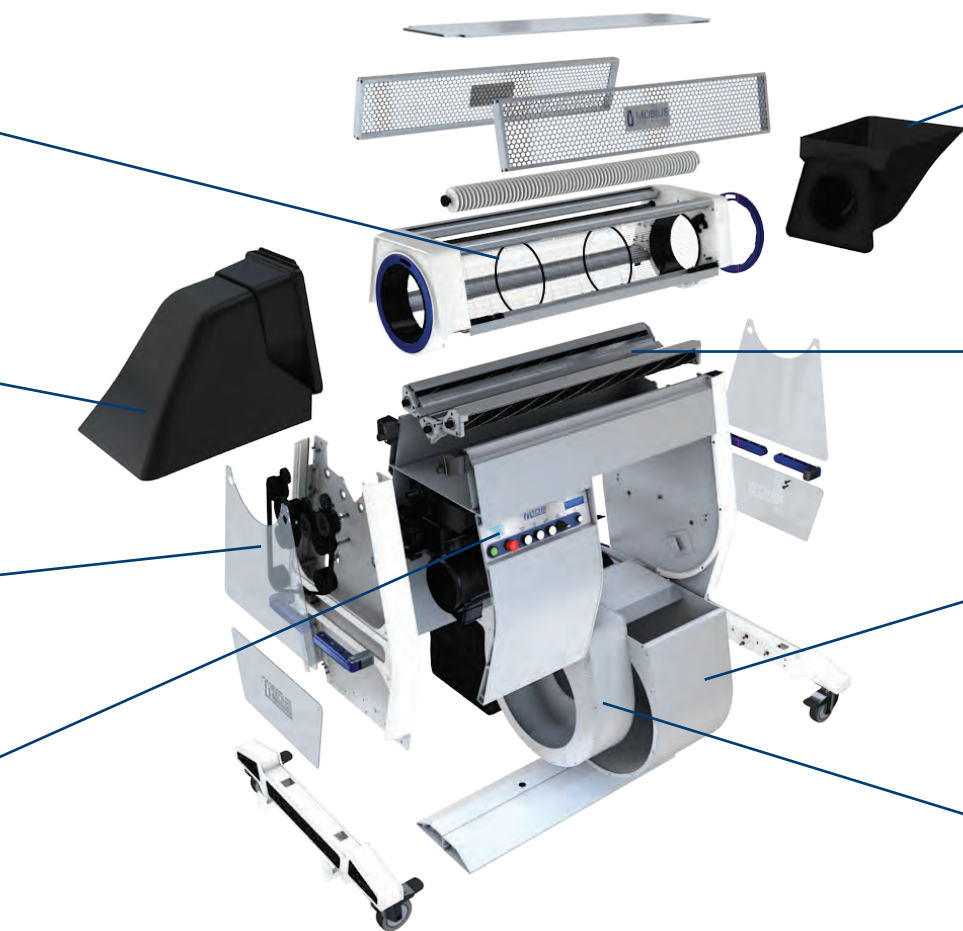
Funnels the trimmed flowers from the tumbler, and prevents hand access to the blade system.

COVERED BELT & PULLEY SYSTEM

One of the features to “future-proof” the M108 ahead of pending cannabis workplace safety regulations. Protects operator from moving parts.

VARIABLE FUNCTION SYSTEM

Adjustable blade speed, tumbler speed, vacuum suction and tilt from a single control panel.



INPUT HOPPER

Allows input and stockpiling of flowers as they slowly move into the tumbler. Prevents accidental access to the blades.

TRIFLEX BLADE SYSTEM

Three 36" helical blades sit side-by-side, giving flowers three cut-point opportunities with each pass of the tumbler.

INTEGRATED SEPARATION SYSTEM

An entirely hose-less design, the trim separator is integrated into the body of the M108.

INTEGRATED VACUUM

The vacuum is built into the body of the M108, making it a complete self-contained system.





SECTION 1:

KEY FEATURES

TRIFLEX BLADE SYSTEM

THRICE AS NICE

Each of the three self-sharpening blade cartridges are set side-by-side, giving flowers three cut-point opportunities with each pass of the tumbler. Your product is trimmed faster and spends less time in the tumbler, minimizing the risk of impact damage.



PRECISION CUTS AT COMMERCIAL SPEED

THREE HELICAL BLADES

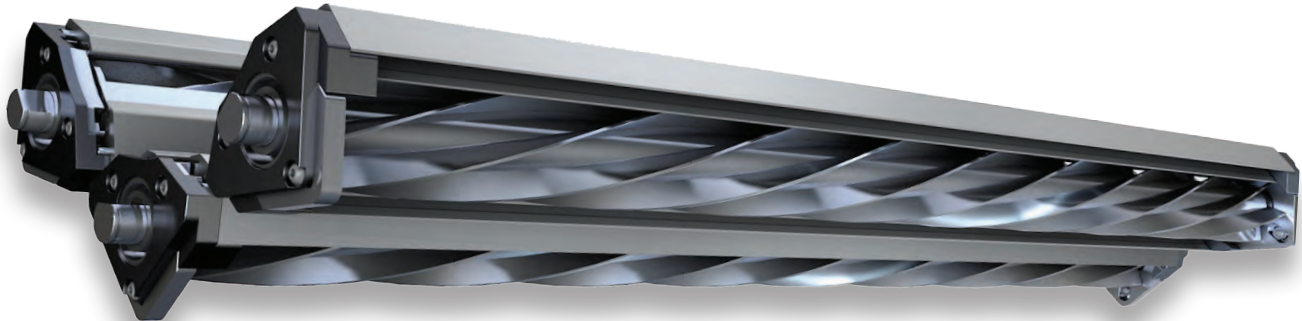
The Tri in TriFlex, the three helical blades (manufactured in-house with our own custom tooling) are each 36" long, providing a whopping 108" of total cut length. The blades are nitrided to harden their surface and prevent rusting.

CUTS LIKE SCISSORS

Designed to function identically to scissors, the surgical-grade stainless steel bedknives flex against the helical blades. The two cutting edges remain in constant contact with each other, with no gaps or dead spots.

NO ADJUSTING

The cartridges are held in place by tension, so they are designed to simply lift in and out without any need for bolts or screws. They never need to be adjusted or "dialed in." You'll get a precision cut every time, no "clicks" required.



AIRTHREAD

TENSION TUMBLER

Perfectly cylindrical when locked in place, but flexible when removed, the AirThread Tension Tumbler is made of a single piece of stainless-steel aircraft cable more than 300 feet long.



CONSISTENTLY CYLINDRICAL SHAPE

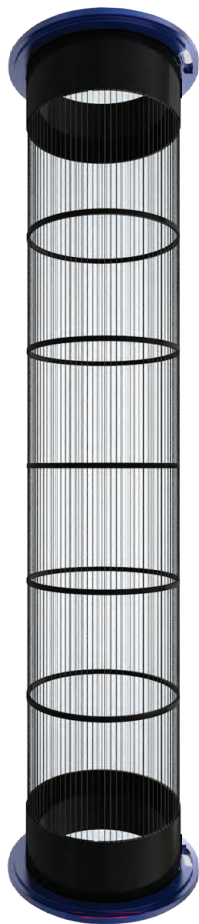
Air pressure tension ensures all 36 inches of the AirThread Tension Tumbler remain perfectly cylindrical. This keeps the distance between the blades and the tumbler constant, creating a consistent trim.

DENT-PROOF

The durable, stainless-steel cable construction is not only rust-proof, but dent-proof too. Whether it's an accidental bump against table legs or an unfortunate fall to the floor, pop the AirThread Tension Tumbler back in place and it will function perfectly.

INCREASED ACCESS TO BLADES

Using steel cable rather than perforated sheet metal increases access to the blades by more than 50% compared to a traditional tumbler. This results in the product spending less time in the tumbler and less surface area for resin to stick to, reducing cleaning time and resin loss.



LESS IS MORE

INTEGRATED SEPARATION SYSTEM

THROW AWAY THE HOSES.

With the Integrated Separation System, both the trim separator and vacuum are built directly into the body of the M108, vastly reducing the footprint required for trimming equipment.



HOSE-LESS DESIGN

The ISS is an entirely hose-less design. That means there are no hoses to clean or dispose of. Because all components are integrated, it also vastly reduces the trimming equipment footprint.

RETAIN TRIM QUALITY

The ISS has a unique curved design with smoothed internal surfaces, allowing the trim to move through the machine gently on a cushion of air. The material has minimal impact against the walls before ultimately dropping into the removable Trim Tote. The trim never touches an impeller, and appears identical to trim that has been cut with scissors. It retains 100% viability and value for use in extracts.

EASY ASSEMBLY & DISASSEMBLY

A simple latch and cam system means the ISS can be dismantled and removed in seconds. The Trim Tote can be emptied, cleaned, and replaced in minutes, minimizing downtime.



LEAVE NOTHING ON THE TABLE.



PATH OF TRIM FROM TUMBLER TO TOTE.

VARIABLE FUNCTION SYSTEM

TAKE CONTROL

The M108's Variable Function System gives users the control to optimize their machine to suit any moisture condition, strain type, or end-product requirements. Trim WET or DRY with no additional components or configuration changes. Decide for yourself what settings work best to get your ideal end-product, every time.



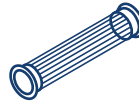
FULLY ADJUSTABLE:



VACUUM SUCTION



BLADE SPEED



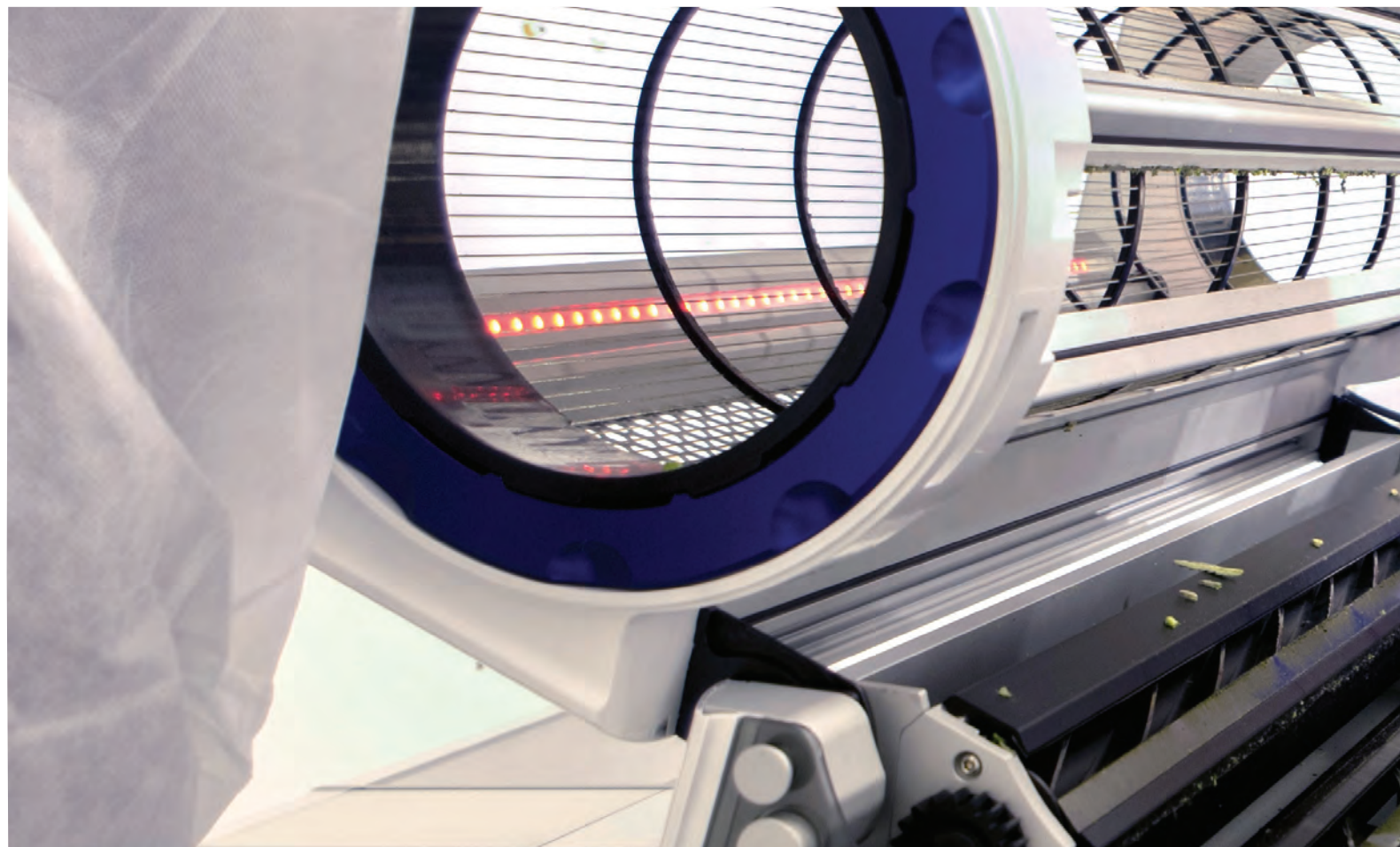
TUMBLER SPEED



TILT



DIASTO 11.





SECTION 2:

GMP & SAFETY



GMP AND THE M108

GO TOGETHER LIKE PEANUT BUTTER & JELLY

The M108 was designed to be an integral part of a GMP-compliant harvest operation.

HERE'S HOW WE DID IT:

The M108 does not have any inaccessible parts, hoses or concealed cyclones, which are exceptionally difficult to clean and have the potential to harbor microorganisms.

SOPs (Standard Operating Procedures) for the M108 are simple and straightforward, ensuring consistency in operations and products.

All plant-touching parts of the M108 are smooth and made of non-toxic, corrosion resistant materials, capable of withstanding repeated cleaning.

Integration of the vacuum and the trim separator into the body of the M108 results in minimal airborne plant particulate being generated and a cleaner work area overall.

All plant-touching parts of the M108 are removable for cleaning and can be changed out or effectively cleaned with non-toxic detergents.

DESIGNED WITH A SAFETY FIRST MENTALITY.

Workplace safety is an expectation when working in any well-developed industry.

Based on discussions with regulatory bodies, we built a machine that will stay ahead of upcoming workplace safety requirements in the cannabis industry.



KEY SAFETY FEATURES

There are no uncovered moving parts or belts for fingers or clothes to get caught in.

Shrouds prevent hand access to the input and output points.

When components are removed for cleaning or servicing, the M108 can't be powered on, even if it remains plugged in.

The M108 won't function without safety controls in place. It won't power on without the lid closed and the shrouds on.

Because it is a hose-less, semi-closed system, surfaces and floors in the workspace remain cleaner. A clean workspace is a safe workspace!





SECTION 3:

SPECIFICATIONS

TECHNICAL SPECIFICATIONS

POWER:

VACUUM MOTOR:	5 HP
CUTTER MOTOR:	0.75 HP
TUMBLE MOTOR:	0.125 HP

OUTPUT:

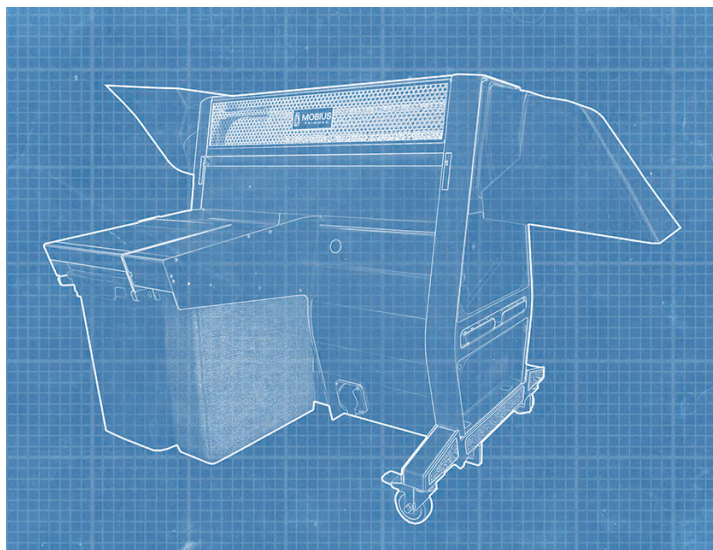
WET FEED RATE:	66 - 120 lbs/hr 30 - 55 kg/hr
DRY FEED RATE:	22 - 44 lbs/hr 10 - 20 kg/hr

ELECTRICAL REQUIREMENTS:

SINGLE PHASE:	240V, 30 amps
THREE PHASE:	208V, 22 amps

DIMENSIONS:

HEIGHT:	47"
LENGTH:	43.5"
WITH SHROUDS IN PLACE:	77.5"
WIDTH:	32"
WITH TRIM TOTE IN PLACE:	43"
WEIGHT:	462 lbs



MATERIAL SPECIFICATIONS

HELICAL BLADES	ALLOY STEEL 4140, NITRIDED
BED KNIVES	UHB SS716 STAINLESS STEEL, EA E-30CL ADHESIVE
BRUSH SHAFT	304 STAINLESS STEEL
TUMBLER SPACER RINGS BRUSH BRISTLES	NYLON 6
WIRE TUMBLER BODY	316 STAINLESS STEEL CABLE
INPUT HOPPER & OUTPUT CHUTE	ABS (ACRYLONITRILE BUTADIENE STYRENE) PLASTIC
ALUMINUM HONEYCOMB SCREENS ON LID ASSEMBLY	3003-H14 ALUMINUM, ANODIZED
TRANSPARENT LID ASSEMBLY AND TRIM TOTE SHIELDS	HARDENED & COATED POLYCARBONATE (LEXANTM MR10)
TRIM TOTE	HDPE 2 (HIGH-DENSITY POLYETHYLENE)
TRIM TOTE GASKET/SEAL	CLOSED CELL EPDM SPONGE RUBBER
ALUMINUM FLAT PLATES AND SHEET METAL PARTS (SEPARATOR HOUSING AND IMPELLER HOUSING)	5052 ALUMINUM (H32)
ALUMINUM EXTRUSION PARTS (SEPARATOR HOUSING AND IMPELLER HOUSING)	6063 ALUMINUM (T6), ANODIZED



LESS TIME CLEANING

MORE TIME TRIMMING

The worst part of trimming is cleaning your equipment afterwards. Not only does the M108 create less mess, but cleaning it is a simple, quick process, reducing inefficiency and wasteful labor costs.

The M108 is rated IP53 and can be cleaned with a power washer. A Soak and Store Tub is included with each M108, which assists in the cleaning of the tumbler, blade cartridges, and tumbler brush.

Because no tools are required for disassembly and assembly, removing components for cleaning is quick and easy. The closed-system design ensures your trimming environment stays cleaner, including the floors and flat surfaces. You'll spend less time cleaning up underneath and around your M108.

Internal surfaces are smoothed metal, making them easy to power wash, wipe down and inspect.

FOR MORE INFORMATION

PLEASE CONTACT US VIA PHONE OR EMAIL:



1-866-874-6244



INFO@ETEROS.COM



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