Product Catalogue

Vortex De-pollution (USA) LLC, 12445 E.39th Ave, Suite 506, Denver, CO 80239
T. 303 900 4040   Email sales@vortexdepollution.com   web. www.vortexdepollution.com
Mega Vehicle Recycling System

- Two vehicle top and bottom de-pollution station
- Ten 1” double diagram pumps with strainers
- Two fuel heads with beryllium punch, inspection glass and controls to separate clean and dirty gasoline
- Four oil funnels to drain engine and transmission oil simultaneously
- Two oil funnels to drain rear differentials
- Two Coolant spikes for below vehicle extraction
- Two Oil suction hoses for above engine extraction
- Two Water suction hoses for above engine extraction
- Battery bay for easy removal of batteries from top of catwalk
- Pneumatically driven floors and safety rails on front and rear of both vehicles to enable operator safe access to both ends
Midi Catwalk System

- Vehicle top and bottom de-pollution station
- Four 1” double diagram pumps with strainers
- Fuel head with beryllium punch, inspection glass and controls to separate clean and dirty gasoline
- Two oil funnels to drain engine and transmission oil simultaneously
- Oil Funnels to drain rear differential
- Coolant spike for below vehicle extraction
- Oil suction hose for above engine extraction
- Water suction hose for above engine extraction
- Movable front catwalk and safety rails to enable operator safe access to engine bay and vehicle side
Tower VRS

- Vehicle top and bottom de-pollution station that can be used in conjunction with lifts or fixed stands
- Four 1” double diagram pumps with strainers
- Fuel head with beryllium punch, inspection glass and controls to separate clean and dirty gasoline
- Two oil funnels to drain engine and transmission oil simultaneously
- Coolant spike for below vehicle extraction
- Oil suction hose for above engine extraction
- Water suction hose for above engine extraction
COMBINED STAND, FUEL EXTRACTION TOOL AND OIL & COOLANT DRAINER

- Rack with sliding blocks to tilt car
- Fuel head to separate clean and dirty petrol
- Two oil funnels to drain engine and transmission oil simultaneously
- Tool set mounted on oil arm
- Coolant spike to drain coolant from lower radiator hose.
- Four 1” double diaphragm pumps and strainers
- Tank connections: ¾” JIC male connectors

4” x 6” Rack
6” Rack
Optional Extras
Differential Drainer Funnel
Extra air package including air chisel
Brake fluid drain system (from nipples)
QC Gas Tank Drill
High Volume Fuel Tool

The Head is raised to the gas tank and makes a vacuum seal. The non sparking beryllium spike punches a hole. The Quality of the gas is determined in the sight glass. The operator selects either clean or dirty gas. Fuel is pumped to the correct storage tank. Two 1” Double diaphragm pumps are used to power the system. The gas is recovered at around 10 gallons per minute.

Double Headed Fuel Tool

Identical in operation to the single headed fuel tool, however this allows fuel recovery from two vehicles at one time.
The Vortex Oil & Coolant Drainer

An easy to use system that will quickly drain used engine and transmission oils then pump it away to storage tanks. This avoids moving open tanks or drainers on wheels around the yard to empty them.

The oil extraction funnels have an oversized magnetic sump and double straining system to prevent blockages, keeping the equipment running with minimum maintenance.

Supplied with a full set of drain plug keys and sockets all tooling is to hand to ensure the operation is carried out as quickly as possible.

Coolant Spike penetrates lower radiator hose and coolant water is pumped away to storage tanks through 1” pipes to speed up the process and avoid blockages.

Manufactured in Colorado the Oil Drainer arm can be easily reengineered to suit specific customer requirements.

The Vortex Complete Mobile Oil & Coolant Drainer

The Vortex Mobile Pumped Oil Drainer for fast draining of engine/gear box/differential oil.

Based on our successful fixed oil and water drainer using the same rubber collection funnels mounted on a fast acting mobile jack with braked castors. Oil is pumped away using ½” Air Operated Diaphragm pump.

Included in the oil system is a separate hose to remove under hood brake and PAS fluid.

In addition the tool is also fitted with Water Pump and coolant spike to remove coolant water from bottom radiator hose or under-hood reservoirs.
Mobile Fuel Extraction Tool - Vortex Punch

The Vortex Fuel Tool powered by compressed air punches through the fuel tank. We also offer a drill based version of this popular tool.

On our punch There is a complete seal around the fuel tool head and this solution allows fuel to be inspected for dirt or contamination. We do have an inspection glass option on our drill head too.

We can fit the fuel tool with a manual fuel diverter option to separate clean and dirty gas for pumping to a tank or other gas collection vessel.

Our proven fuel punch head is connected to the on-board pump.

The pump is a hi-speed air powered double diaphragm pump to EX UL specification are used in the system for a safe, reliable & speedy extraction of fuel.

Ideal for full-service auto recycling yards to move between bays for fuel extraction.

Mobile Fuel Filtration system

Developed to allow yards to reuse gasoline with confidence, the unit has two filter systems, the first screening out larger particles of dirt and contamination to 250 microns, the second post pump filtering the finished gasoline down to 5 microns and removing any water from the gasoline.

This mobile system can be used for emptying tanks as they are dropped from the vehicle or from a storage tank directly into your vehicle.
QC Drill Head

The QC Drill head allows the operator to view the quality of the gasoline to determine where to pump it to, a dirty gas tank or clean for re use or resale. It will easily replace existing drill heads and should prove more reliable too as it is machined to high precision tolerances in aircraft grade aluminium, giving a longer life than other drills on the market.

Standard Fuel Drill Head

The standard drill head still has all the high tolerance engineering of the QC head but is directly interchangeable with other drills on the market. As such we are offering a servicing facility for our competitors drill heads and we stock all the components in our Denver factory.

The Gearbox Drill

As an alternative to draining the gearbox in to a funnel we can also offer the option of drilling it and vacuuming out the oil from the gearbox. Quite often gearboxes do not have sump drain plugs and the drill provides a neat clean solution to this problem.
Under Hood fluid recovery system Options

Designed to easily and safely recover fluids from the engine compartment of the vehicle, the two recovery lances pump brake fluid and PAS fluid directly to the waste oil tank and the other pumps directly to the coolant tank, these can be modified to suit any number of pumps depending how far you want to go with fluid separation. The unit also has a built in shelf to mount the Freon recovery machine, extra shelves can be added to mount the scales and gas collection cylinder.
A UL2085 **Fireguard tank** is a tank registered with the Steel Tank Institute and only available from a STI member. The Fireguard tank is a double wall tank that contains insulation between the inner and outer tank protecting the product from ambient temperature variations and exceeds the UL 2-hour fire test.

**Fireguard is the only tank that meets all of the following standards:**
1. UL 2085 listed "Protected Tank"
2. Ballistics and Impact protection per UL 2085
3. Both the inner and outer steel tanks are built to UL standards
4. National Fire Protection Association (NFPA) 30 & 30A
5. International Fire Code (IFC)
6. California air Resources Board (CARB). Standing loss control testing requirements for air emissions
Flameshield Gasoline storage tank 500 / 1000 Gallon

Every Flameshield is manufactured to stringent STI specifications and is subject to the Steel Tank Institutes' Quality Assurance program. These tanks are available in either horizontal, vertical or rectangular designs with available full length box skids or saddles.

The features associated with a Flameshield are:
1. 2 hour 2000* fire-test as required by Southwest Research Institute Standard SwRI 97-04, validates performance of non-insulated tanks
2. Primary and secondary tanks can be tightness tested on site with standard testing procedures, or manufacturer may ship with vacuum in the interstice to prove the integrity of both walls during installation.
3. Interstitial space can be monitored for leak detection
4. Primary storage tank and secondary containment compatible with a wide range of fuels and chemicals
5. Support designs available for all seismic requirements.

Capacities up to 50,000 gallons available.

Gasoline, Oil, Coolant Storage Tank 250 / 500 / 1,000 Gallon

Storage of Petrol: Double-Wall Construction Conforming to UL-142 Standards

Two E-vents
Gauge
Cast Iron Plugs

It is important to note that NFPA 30 2-3.4 and most of the other fire codes all have requirements for conditions that have to be met when using above ground secondary containment tanks.
High Stand

Vortex De-pollution manufacture and supply a high stand suitable for use with our fuel tools and oil and water drainers. The Vortex High Stand is a rugged alternative to a lift. Capable of supporting 20,000 lbs the high stand can safely support the largest vehicle likely to be encountered at a safe working height for fuel extraction, draining engine and gearbox oils and removal of coolant water.

4"x4" Tubing
6"x4" Tubing
6"x6" Tubing

Unlike a lift, Vortex High Stand has been designed with blocks at each side to ensure the vehicles sits at the best angle to ensure the maximum amount of fuel and oil is recovered from the vehicle in the shortest time possible.

Engineered in the USA the Vortex High Stand is a maintenance free alternative to a lift based system for overhead operations.

Low stand with drip collection raised walkway

The low prep-stand is designed to make the job of removal of under hood fluids i.e. brake fluid, PAS, coolant water, screen wash, and air con refrigerant easier and safer.

The stand puts the vehicle at the correct height to safely remove wheels at this point. The galvanized spill tray is a useful addition to ensure the operative is at the right height to carry out all under-hood operations such as battery removal, brake fluid/PAS and screen wash. The wheels could be removed at this point using air tools connected to the overhead air supply.
Tilting low stand

The side tip vehicle stand tilts the vehicle back hydraulically for the easy recovery of parts from the underside of the vehicle. The unit supports the vehicle to prevent it falling backwards off the stand. It makes the task of accessing under the vehicle much easier and quicker than putting it on a lift.

Single Post Vehicle Lift

The Single post lift is suitable for vehicles up to 6,000 lbs. For vehicle de-pollution it is ideal because it can be side loaded. When raised it has no obstructions like you would get with scissor lifts, making it safer and easier for the operators to do their job.
4 Post Side Dismantling/De-pollution Lift

- The TSL9SL is an economical side load lift with a 276" opening on long side for loading
- 2 10' Loading Beams
- Truck and Van Screw Type and I-Beam Type
- Lifting capacity 9,000 lbs.
- Adjustable support beams and cross beams
- Overall lift height: 98 inches
- Overall lift width: 137" inches
- Overall lift length: 296 inches
- Lifting height: 72 inches
- Power unit: 2 hp, 220 v., Single Phase
- Single point safety release with automatic reset when lift is raised from any point
Holmatro Catalytic Converter Cutter

Holmatro cutters have blades designed specifically for removing catalytic converters from vehicles, the cutter head comes with a variety of power pack options.

- Cutter with gasoline powered pump
- Cutter with 115v or 230v electric pump
- Cutter with air powered pump
- Cutter head only
- Additional hand cart for mobility

Air conditioning refrigerant extraction unit

Supplied with high and low connections, hose, scales, and cylinder. The recovery system that we distribute is simple to set up and operate it switches itself off when the air con system is drained, the unit runs on a single valve control for easy changeover from liquid to vapour to purge. We also supply scales, recovery bottles and the easy gauge air con tester to see if the system is full or empty.
Ingersol Rand Air Compressors

If you want a quality air installation then vortex can work with you to specify and install the right system to suit your needs, Vortex supplies both reciprocating and rotary style compressors from Ingersoll Rand. Ranging in size from 25cfm to 30,000 cfm, Vortex can customize your compressor solution to fit all of our equipment. All air compressors can and should be fitted with additional drying and filtration components to ensure the system is operating with ideal clean, dry air. When professional performance is required, Ingersoll Rand air compressors provide maximum operating pressure, increased air flow, and extended duty.
A compact but powerful machine able to demolish engines at a rate of 3 to 5 tons per hour! Able to crush an engine in as little as 2 minutes.

This machine is designed to separate the aluminium from the steel to maximize returns from all engines. The newly redesigned model has a dual-ram system that will process any engine loaded into the hopper.

The McIntyre Engine Cracker with its compact and simple design offers a space saving and usability ideal, creating a unique system that can fit into the everyday running of any scrap yard.

With a crushing force of up to 120 Tons, The JMC Engine Cracker can easily demolish a wide range of engines, electric motors and even alloy wheels. The McIntyre Engine Cracker is fitted with a four cylinder Perkins diesel engine that meets all UL requirements. An electric version is also available. Featuring a fully enclosed Motor within a meshed guarding, the Engine is protected from debris and the user from coming into contact with any heated components.
**Vortex Cat Guillotine**

The Vortex Cat Guillotine is the ideal solution for cutting of catalytic converters to recover the valuable PGM loaded catalyst found inside. With safety at its core, the operator will be protected behind an easy to move safety door that will lock while the blade is moving up and down. The Cat Guillotine is capable of processing up to 80 converters per hour, cut directly into a super sack to improve shipping efficiency. The cutting cabinet is under constant vacuum to ensure none of the valuable PGM loaded dust is lost in the process, adding even more value to the load. This process also allows for sale of the converter cans, adding even more additional value. Vortex has customized single, double and high volume converting cutting systems, designed to fit all volume operations.
The Cat Comrade

A production platform and dust-extraction system designed to increase the recovery of precious metals from catalytic converters.

INCREASE PRODUCTION

The Cat Comrade provides a complete recycling solution for the processing of catalytic converters. This robust platform has an integrated dust filtration plant and is supplied with your choice of Vortex catalytic converter shear. The high specification dust extraction unit prevents escape of product to the elements, thereby ensuring the maximum possible recovery of precious metals. The platform is designed to incorporate two full-sized bins at the optimum height to allow processed materials to fall into a drum or bag. Use of the platform and associated conveyors will increase the productivity of your operators, and the incorporation of a quality McIntyre shear from Vortex will improve cutting speed and performance.

The Cat Mate

Ideal starter unit for cat processing, the powerful shear can deal with all size cats, while a powerful dust recovery system ensures no valuable dust is lost. The catalyst is collected in a removable bin, or we could fit a screw conveyor to take it to a drum or bag.

The Cat Shack

With the same principles as the Cat Comrade, the cat shack can be operated at ground level and uses a screw conveyor to take the contents to the bagging area.

The whole area is enclosed and runs with a dust extraction system
Shears

Developed from the well known McIntyre range, JMC hydraulic shears were originally designed to withstand the rigors of scrapyard use, making them suitable for any industrial application. Still the market leaders in the metal recycling industry, JMC shears are fully tried and tested in the works before being offered for sale. Blade lengths vary from 6 inches to 36 inches. Shears can be supplied with diesel or electric motors and some larger units can be solenoid controlled to enable them to be incorporated into complete systems. If you have a specific application please let us know, we have a team of design engineers at your disposal and can custom build equipment to meet your needs.

PURPOSE BUILT
JMC Cat Shears have been purpose built for recovering precious metals from catalytic converters. The catalytic converter is simply placed in the jaws and cut. The movement of the jaw is directly controlled by the moveable foot pedal. Once cut, the pinched end of the converter can be re-opened using the side bracket attached to the top jaw, allowing the contents to be poured out.

OPTIONS
All JMC Cat Shears can be supplied with dedicated extraction and filtration systems to remove dust, which may also contain precious metals. A V clamp can be fitted to the bottom jaw to help hold the catalytic converter in place during cutting. Both single and three phase options are available.

UNIVERSAL
Cat shears are powerful enough to deal with a wide range of operations including the cleaning of automotive aluminum scrap, whole gear boxes, cylinder heads and blocks, oversized gate valves and the handling of all non ferrous separations. JMC Cat Shears are a valuable addition to any non ferrous operation.
**2035 Metal Baler**

Don't be deceived by the size of the JMC 2035 platen baler. A lid shear force of up to 88 tonnes and platen force of up to 45 tonnes ensures that this machine has enough power to bale a whole range of materials metals. Also the heavy duty lid blades make light work of oversized materials.

A variety of features on the 2035 combine to give you the longest possible time between services - and repairs can be carried out with minimal expense. As with all JMC balers, the 2035 box is lined with hardened wear plates and all ram rods are hard chrome plated to ensure maximum seal life. The cutting blades have multiple cutting edges so can be rotated two or four times before needing replaced.

Machines can be supplied with either single or three phase motors.

The 2035 has applications within a number of different industries: scrap metal recycling, food manufacturing, product or prototype destruction, aluminium or steel can recycling and waste handling.

**5025SB Baler**

With a lid shear force of up to 48 tonnes and a main ram compression force of up to 50 tonnes enables the 5025SB to efficiently handle a wide range a wide range of materials. Cutting edges on three sides of the bale box and lid give the 5025SB the ability to handle oversized materials.

In line with all JMC machines, the SB has been designed and built to last. The first prototype SB was built over 20 years ago and is still in constant daily use. The 5025SB features hard wear plates in the bale box, a return-line filter to reduce wear and tear on hydraulic components and all ram rods are hard chromed for maximum seal life.

The hydraulic system on the 5025SB is simplicity itself and draws only 11kW of power to ensure that your running costs are kept to a minimum. The exceptional speed of this baler is achieved using a regenerative oil
**5025 Big Foot Baler**

Designed to act as both a baler and heavy duty yard shear, combining two pieces of machinery into one robust unit.

Developed specifically to meet the needs of the modern metal processor, the JMC 5025 Bigfoot metal baler offers more power and more shear force than any other baler in its class.

With a lid shear force of up to 76 tonnes and a main ram compression force of tonnes enables the 5025 Bigfoot to efficiently handle a wide variety of ferrous and nonferrous materials. Cutting edges on three sides of the loading box and lid give the Big Foot baler the ability to handle oversized materials with ease.

Return-line filters reduce wear and tear on hydraulic components and the machine features hard wear plates in the bale box and lid, and ram rods are hard chromed for maximum seal life.

The combined featured of the JMC 5025 Bigfoot allow the operator to successfully shear and bale material on one piece of equipment. Oversized sheets and sections can be handled with ease, reducing the required labour and machinery and in many cases eliminating the need for expensive cutting equipment.

**Terminator Baler**

Designed to act as both a baler and heavy duty yard shear, effectively combined to create one robust unit. The JMC Terminator combines all the best of JMC’s baler technology with several new features. Innovations include a sorting table which surrounds the front and sides of the bale box, acting both as an aid to loading and as a safety barrier between the operator and the lid. The Terminator also comes with a bale track which carries bale material away from the machine to an ideal height for unloading. Crenelated blades prevent material slippage when using the baler as a shear, maximising the shear force applied and allowing large or oversized material pieces of metal to be processed cut without difficulty. With a lid shear force of up to 76 tonnes and a main ram force of up to 80 tonnes the JMC Terminator offers an exceptional cutting capacity. The machine features hard wear plates in the bale box, return-line filters to reduce wear and tear on the hydraulic components. All ram rods are hard-chromed for maximum seal life. The Terminator will prove to be a rugged and reliable workhorse for your operation for many years to come.
Hippo Baler

The Hippo 6140 is designed to act as both a baler and a heavy-duty yard shear. Effectively combining two standard pieces of equipment into one robust unit. Available as a semi-automatic baler.

With a main ram force of up to 146 tons, the Hippo is powerful enough to make compact bales out of pretty much most metal products.

The Hippo has a big cutting capacity as well, with a shear force of 153 tons and cutting edges on three sides of the loading box it makes short work of oversized materials.

The JMC Hippo has been designed and built to last. The machine features hard wear plates in the bale box, return-line filters to reduce wear and tear on the hydraulic components and a lid failsafe mechanism to prevent accidental damage to the main ram rod. All ram rods are hard-chromed for maximum seal life. The Hippo is equipped with a loading table and bale track, making loading the Hippo even easier and increasing throughput. The Hippo will prove to be a rugged and reliable workhorse for your operation for many years to come.

M10 and M20 Automatic Metal and Can Baler

The M20 Baler is not only a cost effective system for cans but can also be used for many other applications where automatic volume reduction or product destruction is required. When fed with aluminum drinks cans, the M20 crushes and locks the material together to produce dense 10 3/4” cubes, weighing approximately 20-24lbs. Such dense bales means that no tying or strapping is needed. The cubes are simply ejected from the machine, easily handled and ready for transportation. The M20 Baler is a totally automatic system and only requires to be fed material. Once started, the operator is free to load or unload the machine as well as attend to other aspects of your business.
Metallican M40 Metal and Can Baler

Bigger and Stronger! Process up to 1 ton per hour of aluminum cans and 2 tonnes per hour of steel cans. The JMC Metallican is not only a cost effective system for cans but can also be used for many other applications where automatic volume reduction or product destruction is required. When fed with aluminium drinks cans, the Metallican crushes and locks the material together to produce dense 13.5” cubes, weighing approximately 28lbs. Such dense bales means that no tying or strapping is needed. The cubes are simply ejected from the machine and ready for transportation.

The Trojan Metal Baler

Presenting the all NEW JMC Trojan fully Automatic Metal Baler which can bale almost anything at rates of up to 2.5 Tonnes of material per hour! The Trojan is plc controlled and runs fully automatically. Users can select pre-set cycles for baling a variety of metals. This machine can be fed by conveyor onto a hopper with bales exiting via a ramp straight into a dumpster. When fed with Aluminum cans, the Trojan can produce dense bales weighing approximately 44 - 55lbs. Such dense bales means that no tying or strapping is needed. The cubes are simply ejected from the machine and ready for transportation. The Trojan is a totally automatic system and only requires to be fed material. Once started, the operator is free to load or unload the machine as well as attend to other aspects of your business.
For Can sorting, the JMC Alpack Can sorter provides an inexpensive way of separating large volumes of steel cans from high value aluminum ones.

Two versions are available; one with magnetic separation for sorting aluminum from steel cans and one without magnetic separation for feeding steel cans into one of the JMC Can Balers.

The JMC Alpack Can sorter can work both independently or be coupled with a JMC Baler to provide a complete sorting and baling system if required.
The Rotor car / metal baler is a robust and powerful machine. It is available in multiple formats in both 16ft and 20ft bale box size. With processing capacity of up to 20 vehicles an hour or 10 tones of scrap metal an hour the Roter RR series is your do it all baler.

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR5</td>
<td>Baler 197” (5mtr) Box with Diesel engine and remote control</td>
</tr>
<tr>
<td>RR6</td>
<td>Baler 236” (6mtr) Box with Diesel engine and remote control</td>
</tr>
<tr>
<td>D</td>
<td>Bale ejection door</td>
</tr>
<tr>
<td>EM</td>
<td>Electric motor 120HP</td>
</tr>
<tr>
<td>LL</td>
<td>Hydraulic lifting legs</td>
</tr>
<tr>
<td>RORO</td>
<td>Roll on / roll off system</td>
</tr>
<tr>
<td>MOB</td>
<td>Mobile configuration</td>
</tr>
<tr>
<td>CR</td>
<td>Crane with Cabin</td>
</tr>
<tr>
<td>G</td>
<td>Grapple with rotator</td>
</tr>
<tr>
<td>OC</td>
<td>Cabin for operator</td>
</tr>
<tr>
<td>CH</td>
<td>Cabin Heating</td>
</tr>
<tr>
<td>CC</td>
<td>Cabin Air conditioning</td>
</tr>
<tr>
<td>OH</td>
<td>Hydraulic pre heating</td>
</tr>
<tr>
<td>EH</td>
<td>Engine pre heating</td>
</tr>
<tr>
<td>CCL</td>
<td>Customized color</td>
</tr>
<tr>
<td>CM</td>
<td>Manual in different language (not English or Italian)</td>
</tr>
</tbody>
</table>
RR series shear/balers for scrap metal are the best solution to **compact and shearing all types of steel and ferrous and not ferrous metals.**

They have a **550 tons cutting force** for RR550.5 and RR550.6 models and **715 tons cutting force** for RR715.6 model and are available fixed and semi-mobile version. They are easily suitable to any yard, in fact the machines can be configured with **several options** to suit the customer needs.

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR550.5</td>
<td>Baler 197&quot; (5mtr) Box with Diesel engine and remote control 550 ton</td>
</tr>
<tr>
<td>RR550.6</td>
<td>Baler 236&quot; (6mtr) Box with Diesel engine and remote control 550 ton</td>
</tr>
<tr>
<td>RR715.6</td>
<td>Baler 236&quot; (6mtr) Box with Diesel engine and remote control 715 ton</td>
</tr>
<tr>
<td>EM</td>
<td>Electric motor 120HP</td>
</tr>
<tr>
<td>LL</td>
<td>Hydraulic lifting legs</td>
</tr>
<tr>
<td>PT</td>
<td>Pre load table</td>
</tr>
<tr>
<td>CR</td>
<td>Crane with Cabin</td>
</tr>
<tr>
<td>G</td>
<td>Grapple with rotator</td>
</tr>
<tr>
<td>OC</td>
<td>Cabin for operator</td>
</tr>
<tr>
<td>CH</td>
<td>Cabin Heating</td>
</tr>
<tr>
<td>CC</td>
<td>Cabin Air conditioning</td>
</tr>
<tr>
<td>OH</td>
<td>Hydraulic pre heating</td>
</tr>
<tr>
<td>EH</td>
<td>Engine pre heating</td>
</tr>
<tr>
<td>CCL</td>
<td>Customized color</td>
</tr>
<tr>
<td>CM</td>
<td>Manual in different language (not English or Italian)</td>
</tr>
</tbody>
</table>
CS500 Cable Stripper

The Vortex CS650 Cable Stripper allows you to cut cable with both PVC and rubber. This heavy duty machine is capable of stripping cable up to 2.9/16" diameter.

Technical Data

<table>
<thead>
<tr>
<th>Model:</th>
<th>CS650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Diameter:</td>
<td>1/16&quot; to 2.9/16&quot;</td>
</tr>
<tr>
<td>Cutting speed:</td>
<td>59 Feet per minute</td>
</tr>
<tr>
<td>Electric Drive:</td>
<td>1.1hp</td>
</tr>
<tr>
<td>Weight:</td>
<td>110 lbs</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>23.7&quot; x 11&quot; x 14.2&quot;</td>
</tr>
</tbody>
</table>

CS650 Cable Stripper

Technical Data

<table>
<thead>
<tr>
<th>Model:</th>
<th>CS650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Diameter:</td>
<td>1/16&quot; to 2.9/16&quot;</td>
</tr>
<tr>
<td>Cutting speed:</td>
<td>59 Feet per minute</td>
</tr>
<tr>
<td>Electric Drive:</td>
<td>1.1hp</td>
</tr>
<tr>
<td>Weight:</td>
<td>110 lbs</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>23.7&quot; x 11&quot; x 14.2&quot;</td>
</tr>
<tr>
<td>Knife:</td>
<td>Mechanically adjusted - moving spindle</td>
</tr>
</tbody>
</table>

CS650Q Cable Stripper

The NEW Vortex CS650Q Cable Stripper features an innovative squeezing system positioned on the side of the machine. The CS650Q Cable Stripper has been designed to cut particularly small cables with ease (1/16 to 3/16) benefited by the squeeze mechanism. It is built to process all cables containing PVC and rubber with ease.

Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>CS650Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Diameter:</td>
<td>1/16&quot; to 2.5/16</td>
</tr>
<tr>
<td>Cutting Speed</td>
<td>59 feet per minute</td>
</tr>
<tr>
<td>Electric Drive</td>
<td>1.1hp</td>
</tr>
<tr>
<td>Weight</td>
<td>165 lbs</td>
</tr>
<tr>
<td>Dimensions</td>
<td>23.7&quot; x 11&quot; x 14.2&quot;</td>
</tr>
<tr>
<td>Knife</td>
<td>Mechanically adjusted / moving spindle</td>
</tr>
</tbody>
</table>
Aluminum Casting Machines

JMC Casting machines have been developed in their own foundry to give trouble free alloy production. Metal is poured from the furnace via a launder, into the pouring system. The pouring system has been designed to minimise dross formation, ensuring that the ingots produced are of the highest quality.

The adjustable speed control system allows the amount of metal poured into each mould to be accurately controlled, producing ingots of consistent weight and dimensions. The filled moulds travel up the incline, where the ingots cool and solidify.

As the moulds pass around the head sprockets they invert allowing the ingots to fall, assisted by two automatic hammers.

Vortex markets this range throughout North and South America, we have a variety of models to suit your specific requirements, listed are some of the models, however we can modify each to suit your exact needs. A full range and specification brochure is available.

Dolphin

With 56 moulds and a maximum capacity of 1000lbs an hour this is our starter model.
The Orca can have either 92 or 120 moulds depending on your requirements. It is capable of producing up to 14,000 lbs an hour depending on its mould format.

Pegasus
The Leviathan comes with options for 140 or 180 Moulds and can produce up to 2,200 lbs per hour

Centaur Aluminum Granule Production

The aluminum is poured into the distribution system. This has multiple apertures containing graphite inserts, through which the aluminum flows. The flow is split into droplets by the automatic hammer system, which together with the variable speed system allows the size of the droplets to be varied. The droplets fall on to a rotating water cooled table where they solidify to form pellets.

The pellets are removed from the table with an air knife to a conveyor.
Wagner Shredders

Vortex is the agent for North America for Wagner shredders and Bale Breakers. The range is large so we will not picture each shredder, they range from 7.5hp up to 175hp and are used as size reduction for many materials. Talk to us about your specific application

- WS5
- WS11
- WS15
- WS22 18.5 kw
- WS22 22 kw
- WS22 30 kw
- WS22 37 kw
- WS22 45 kw
- WS30 30 kw
- WS30 37 kw
- WS30 45 kw
- WS50 55 kw
- WS50 75 kw
- WS70 90 kw
- WS70 132 kw
- WS70 132 kw
Wagner Bale Breaker BA30

The bale breaker is used to break open bales of compressed materials. Call us to discuss your requirements.

Wagner PET perforator

The perforator comes in different sizes to suit your applications, it is used to puncture PET bottles prior to baling, to allow the bales to compact properly.
Monster Evo Turbo with Wire harness Pre shredder

The Monster Turbo is a compact plant with a powerful System for recovering copper and aluminium for wires and other scrap material through a blade mill and vibrating air separation table for separating clean copper granules.

This can be coupled with the pre shredding and dosing system to enable it to process vehicle wire harnesses.

The Monster Evo is available in two lines, with pulveriser (turbo) or without. This enables you to optimize handling of different types of cable and fine hair wires.

**Technical Data**

**Power**
- 5kw — 7.5hp
- Turbo 7.5kw — 10hp

**Approximate production**
- 60-80kg/h — 130-176lbs/hr
- Turbo 80-100kg — 176-220lbs/h

**Dimensions**
- 41” x 55” x 83” High (approx.)

**Weight**
- 660kg - 1452lbs
- 700kg - 1540lbs
MG 150 with Pre Shredder Option

Technical Data

Power
20kw—27hp

Approximate production
150-200kg/h - 330-440lbs/hr

Dimensions
110” x 51” x 106” High (approx.)

Weight
1850kg - 4070lbs

The MG 150 is the smallest complete system of MG series for the recycling of copper and aluminium, radiators and electronic board.

The new blade configuration of GR 300 granulator, results in higher production rates at less cost, longer life, lower maintenance and a reduced need for spare parts.

Additionally, the door is sound proofed to reduce noise, plus the cutting chamber is equipped with anti-wear plates.

The complete system is provided with a special loading belt and a pre-shredder with built-in control panel.
The MG 220 is the medium complete system for the recycling of copper and aluminium, radiators and electronic board.

The innovation of the new MG 220 consist in a technological granulator, its rotor is especially designed for the treatment of wires and other metal scrap, with more square shape blades in order to offer high and long-lasting performances, less and easier maintenance and a remarkably reduced noise level.

**Technical Data**

**Power**

37kw—50hp

**Approximate production**

400-500kg/h - 880 –1040lbs/hr

**Dimensions**

140” x 55” x 124” High (approx.)

**Weight**

3200kg - 7040lbs
The MG 220VZT is a complete technological system for copper and aluminum recovery from electric cables and other waste materials. 99.9% of clean recovered material can be achieved using the technology of the air separation table after the grinding and pulverising process.

Thanks to the unique zig-zag Turbo system the compact 220VZT is able to automatically separate the thick and rigid from the household and fine wire through two separate and different slides.

The compact 220VZT can also be supplied with a magnetic separation conveyor to remove and ferrous parts before grinding, this protects the system for a longer blade life, we can also supply it with a choice of pre shredding options and powder dosing to allow automotive harnesses to be processed.
The MG 380 VZT is a complete technological system for copper and aluminum recovery from electric cables and other waste materials. 99.9% of clean recovered material can be achieved using the technology of the air separation table after the grinding and pulverising process.

Thanks to the unique zigzag Turbo system the compact 380VZT is able to automatically separate the thick and rigid from the household and fine wire through two separate and different slides.

The compact 380VZT can also be supplied with a magnetic separation conveyor to remove and ferrous parts before grinding, this protects the system for a longer blade life, we can also supply it with a choice of pre shredding options and powder dosing to allow automotive harnesses to be processed.
MiTilt™ is a revolutionary tilting container loader that allows you to gravity-load your containers to maximum capacity. It combines patented tilting technology with a choice of four different bodies or frames, to suit your type of operation. The MiTilt™ is safely controlled by a single operator and allows you to weigh the container during loading and maximize the fill weight.

MITILT™ IS IDEAL FOR:

- Loading both 40ft or 20ft containers to maximum capacity.
- Loading a range of materials for faster, cleaner and safer handling. With its gravity-fed design, the MiTilt™ is ideally suited to loose materials such as scrap, minerals, metal, grains, sugar and rice.

HOW IT WORKS

MiTilt™ allows a container to be tipped at your chosen angle – anywhere between -10° to 90°. By loading from above, you have access to 100% of the internal container volume. Shipping containers are inserted either directly with a standard trailer, or from above with a forklift, crane or reach stacker.
A—Ward Container Loaders and Unloaders

A-Ward’s unique MiTilt™ unloader eliminates the need for scarce and expensive tilting trailers. Whether your material is being unloaded through a grate, over an edge, or directly in the ground, the MiTilt™ enables faster, cleaner and safer unloading.

HOW IT WORKS:

The MiTilt™ unloader tilts up to a maximum unloading angle of 70 degree, with a 90 degree option available if required. They work in a similar way as our MiTilt™ loaders.

IT’S IDEAL FOR:

- Unloading a range of materials directly into your storage system, at the speed you want.
- Contamination-free unloading of sensitive or hazardous materials.