



powerhand[®]

VEHICLE RECYCLING

EVOLVED THINKING: IT'S IN OUR DNA

Our customers depend upon Powerhand products to advance their industry, whether in a sawmill, recycling yard, port or on the railway. At Powerhand, we solve the problems that others choose to ignore.

We work constantly with Powerhand operators and industry partners. We thrive on challenge and our passion is in the creation of the most user-friendly, innovative and robust attachments. We are dedicated to creating the ultimate materials handling experience.

It starts with Evolved Thinking. Powerhand Thinking.

THE POWERHAND EXPERIENCE

When you look out of your machine, you want to see an attachment you can trust. An attachment with power and dexterity. An attachment, that above all, has unparalleled durability. You want to see... a Powerhand.

Your productivity is our priority. At Powerhand, we understand that in tough industries that work around the clock, productivity is key. In everything we do, our commitment is to optimise your efficiencies and minimise your operating downtime.

We believe the best way to guarantee the highest quality is to control the whole process. That is why, from design to manufacture, we complete 100% in our factory in Scotland. Our company has a strong history in product manufacture, designing and manufacturing products for almost 100 years, since the establishment of our parent company, Wm Clark and Son in 1924.

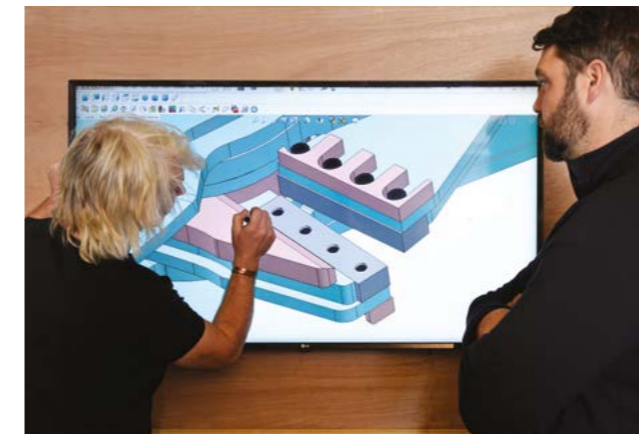


CONCEPT

The process of creating the ultimate 'end of arm' attachment experience begins with you... the customer

Behind every Powerhand product there is a story. A story of a customer looking for the perfect attachment. At Powerhand, every product in our range has evolved from working closely with customers, over many years, to create products that excel at the task in hand.

Combining innovative features with over 30 years of industry knowledge, Powerhand has created the highest quality attachments.



MANUFACTURE

Where innovation meets metal

Only the highest grade Swedish steels are used in the build of our attachments. We combine investment in modern manufacturing technologies with an experienced team of engineers who take extreme pride in their work to guarantee our customers a product built to last.

All hydraulic components used in our Powerhand products are also designed and manufactured in house. From valves to hydraulic cylinders, we produce bespoke hydraulic solutions for our Powerhand equipment.



CREATION

When you invest in a Powerhand, you get an attachment you can trust

You can count on our attachments to produce optimal performance day after day in the tough environments in which they work.

We are proud to never be satisfied and are constantly seeking to improve our concepts, keeping us at the forefront of manufacturing technology.





VRS
160



VRS
200



MH



MV

VEHICLE RECYCLING RANGE

WELCOME TO THE FUTURE OF VEHICLE DISMANTLING

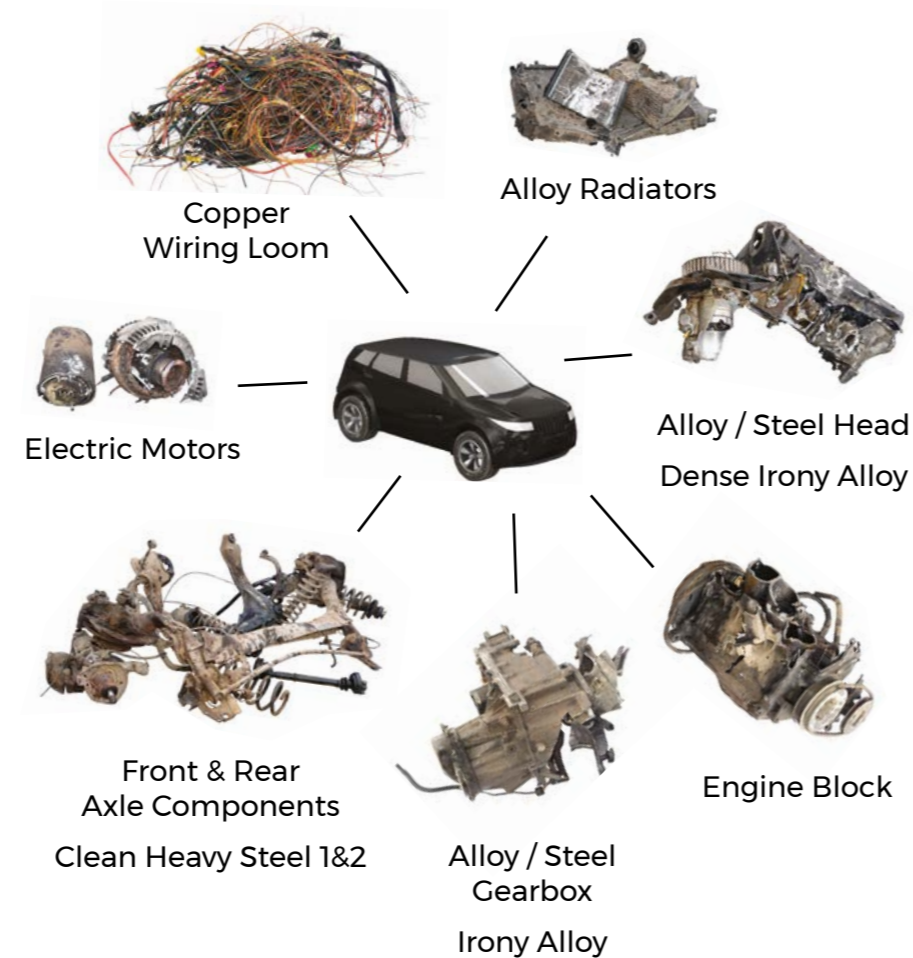
Extract maximum value from ELVs with Powerhand VRS.



Traditional manual methods of removing high value materials from ELVs can be labour intensive and costly, in many cases making the process economically unviable. Although a four-tine scrap grab will allow extraction of the engine, much of the added value materials are left behind, resulting in the end of life vehicle dismantling companies missing out on great potential profit.

Like a vulture would dissect its prey, the VRS clamp arms pin down the vehicle to allow the grapple to systematically pull the valuable materials away from the lower value vehicle body shell. The knife blades on the clamp arms of the VRS 200 allow engine and transmission assemblies to be split from the engine block.

The Powerhand VRS is the ultimate combination of power and dexterity. The grapple features a slender, plier like shape providing an unbroken line of sight from the operator to the vehicle, allowing valuable materials like the copper wiring loom to be extracted from even the tightest of areas. High power hydraulic cylinders and high torque rotation unit gives the VRS the power to effortlessly dissect the vehicle.

We understand that in a demanding, fast paced industry, productivity is paramount. That is why the VRS is built to work, all day, every day. Manufactured 100% from high strength Swedish alloy steels, meaning you can maximise your profits without the worry of downtime.



		
Base Machine Weight Class	14-18 Tonnes	18-22 Tonnes
Vertical Clamp Leg Movement	✓ Independent Clamp Leg Movement	✓ Dual Clamp Leg Movement
Horizontal Clamp Leg Movement	✗	✓
Engine / Gearbox Splitting Blades	✗	✓
Wire Stripper	✓	✓
High Gripping Force Hardened Grapple Legs	✓	✓
Grapple Shear	✗	✓
Rotation Unit	Vane Motor	Worm & Worm Wheel Drive
Torque	7,000Nm @250Bar	10,700Nm @250Bar
RPM	30RPM @40 l/min	7.5RPM @70 l/min



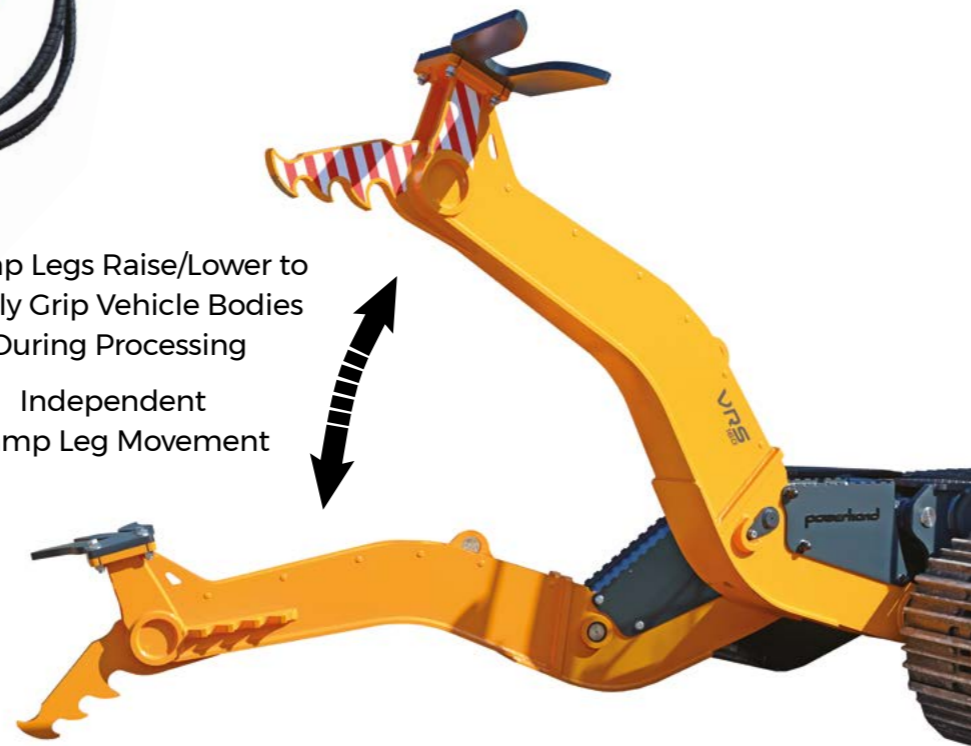


High Speed Rotation Unit



Clamp Legs Raise/Lower to
Firmly Grip Vehicle Bodies
During Processing

Independent
Clamp Leg Movement



High Force
Gripping
Jaws



Wire
Stripper



Well Protected Hydraulic Cylinders



VRS 160

Increase profitability by using the VRS to quickly remove higher grade materials such as engine / transmission assemblies, axle / suspension components from lower grade vehicle body materials.

- ☑ Hold down and clamp vehicles using the machine mounted clamp arms.
- ☑ Robust enough to handle heavy materials, yet the nimble jaws of the grapple allow easy removal of wiring looms, starter motors and alternators. Once the valuable wiring loom has been removed, use the multi-tool to strip off any unwanted electrical components.
- ☑ Independent clamp leg movement.
- ☑ High speed rotation unit.
- ☑ Manufactured from high strength Swedish alloy steel.



Suitable for fitting to most machines in the range of 14-18 tonnes.

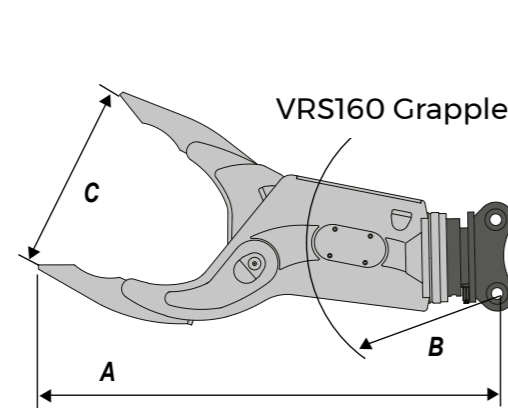
Grapple requires two hydraulic services:

Open/Close 350Bar, 80-120 l/min

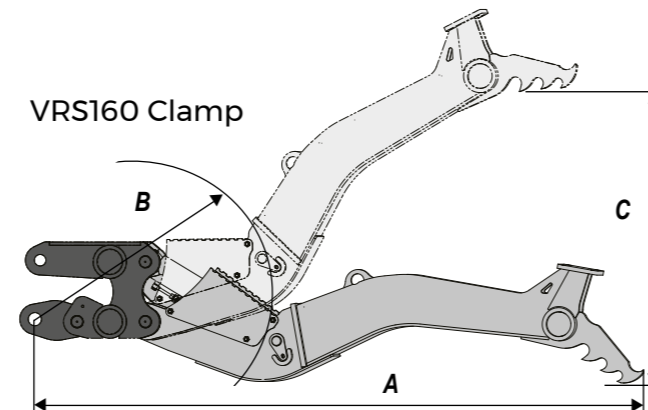
Rotate 250Bar, 40 l/min

Clamp arms:

Raise/Lower 350Bar, 80-120 l/min



Overall Height	A	2560mm
Centre of Gravity	B	1050mm
Max Jaw Opening	C	1050mm
Weight		1400kg



Overall Length	A	3400mm
Centre of Gravity	B	1400mm
Max Height	C	1850mm
Weight		1850kg

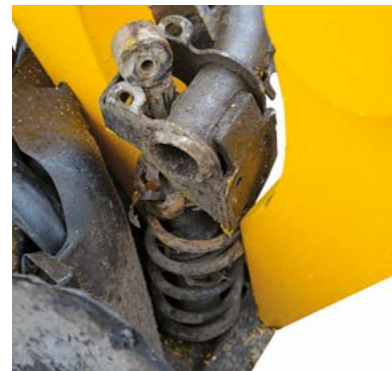




High Torque Rotation Unit



Cutting Shear



High Force Gripping Jaws



Clamp Legs Open/Close
to Process Engines & Gearboxes
Clamp Legs Raise/Lower to Firmly Grip
Vehicle Bodies During Processing



Gearbox & Engine Head
Removal Blades



Wire
Stripper



Well Protected
Hydraulic Cylinders



VRS 200

Increase profitability by using the VRS to quickly remove higher grade materials such as engine/transmission assemblies, axle/suspension components from lower grade vehicle body materials.

- ☑ Hold down and clamp vehicles using the machine mounted clamp arms.
- ☑ Oversized materials can be cut to size using the grapple mounted shear.
- ☑ Use the grapple, engine clamp and central shear to separate ferrous/nonferrous metals from the engine, cylinder head and gearbox assemblies.
- ☑ Robust enough to handle heavy materials, yet the nimble jaws of the grapple allow easy removal of wiring looms, starter motors and alternators. Once the valuable wiring loom has been removed, use the multi-tool to strip off any unwanted electrical components.
- ☑ High torque rotation unit.
- ☑ Manufactured from high strength Swedish alloy steel.



Suitable for fitting to most machines in the range of 18-22 tonnes.

Grapple requires two hydraulic services:

Open/Close 350Bar, 80-120 l/min

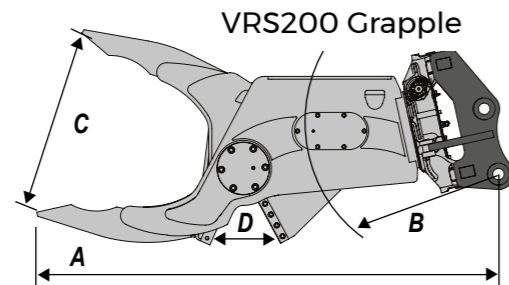
Rotate 250Bar, 50-80 l/min

Tank Line for Motor, 50Bar max back pressure

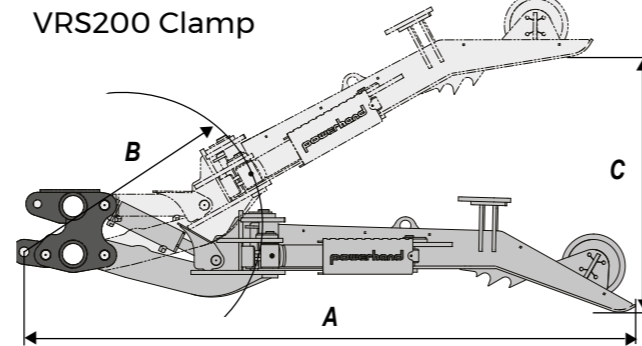
Clamp arms require two hydraulic services:

Open/Close 350Bar, 80-120 l/min

Raise/Lower 350Bar, 80-120 l/min



VRS200 Grapple		
Overall Height	A	2625mm
Centre of Gravity	B	1135mm
Max Jaw Opening	C	1050mm
Max Blade Opening	D	400mm
Weight		1730kg



VRS200 Clamp		
Overall Length	A	4600mm
Centre of Gravity	B	2050mm
Max Height	C	2250mm
Weight		3360kg



MH - For Loading Balers on Small Excavators and Cranes

Light enough to be attached onto a baler loader crane and tough enough to be fitted to a small excavator to handle ELVs. The MH series has been designed to fit into engine bays, making engine extraction fast and efficient. The long, sharp pointed tips are perfect for piercing vehicle bodies.



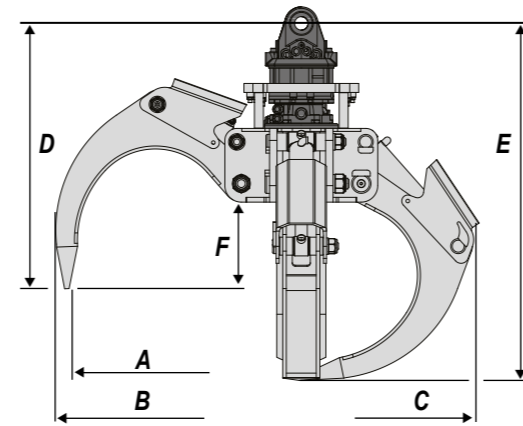
Hardened Steel Tips



Well Protected Hydraulic Cylinders

- ☑ Robust manifold distribution of oil to hydraulic cylinders.
- ☑ Manufactured entirely from high strength Swedish alloy steel.
- ☑ Robust leg stops plus large diameter pivot pins and bushes extend wear life.
- ☑ Well protected hydraulic cylinders, piston shafts and hoses.
- ☑ MH Series scrap grapples can be fitted with either Indexator CV or IR series rotators in powered or free rotation.

Capacity		180Litres
Weight (excluding rotator)		420kg
Open Width Inside	A	1380mm
Open Width Outside	B	1570mm
Closed Width Outside	C	1190mm
Open Height	D	1000mm
Closed Height	E	1195mm
Clearance	F	680mm

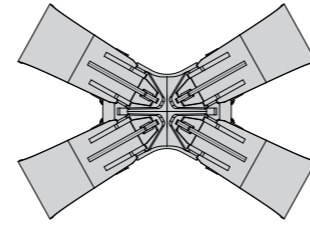




MV - ELV Engine Removal and Bale Loader Grab

The MV series is the ultimate vehicle processing grab. Tough and durable allowing it to thrive in a formidable environment, yet nimble and precise to quickly remove engines and load balers.

Offset legs allow the grapple to fit within the vehicle engine bay for easy engine removal, yet the grapple still has the ability to span a vehicle roof. Hardened machined tips allow you to work harder, longer and with more precision. The hydraulic cylinders have complete 360° shaft protection, minimising the risk of a productivity destroying hose burst.



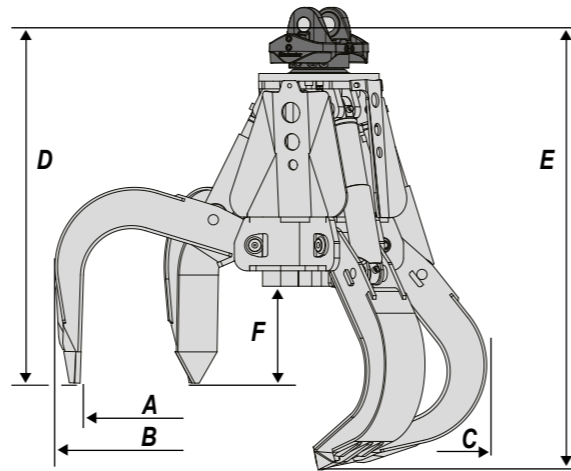
Perfect Leg Design for Engine Removal from Scrap Vehicles

360° Hydraulic Cylinder Protection



- ☑ Robust manifold distribution of oil to hydraulic cylinders.
- ☑ IR series rotator enables high downward forces to be applied.
- ☑ Manufactured from high strength Swedish alloy steel.
- ☑ Ram shafts completely sealed with sliding guards.
- ☑ Well protected hoses.
- ☑ Robust leg stops and large diameter pivot pins and bushes extend working life.
- ☑ 350 bar working pressure.

Capacity	330Litres
Weight (Including rotator)	978kg
Open Width Inside	A 1860mm
Open Width Outside	B 2060mm
Closed Width Outside	C 1310mm
Open Height	D 1400mm
Closed Height	E 1730mm
Clearance	F 380mm





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