ENERPAT

Waste Vehicle Dismantling Machine



Your Trusted Recycling Equipment Partner

ENERPAT Waste Vehicle Dismantling Machine is an advanced hydraulic system for ELV recycling plants and scrap yards.
Equipped with CAT excavator, dismantling pliers and bidirectional press frame, it delivers a full-set ELV recycling solution:

- Higher dismantling efficiency
- More valuable material recovery
- Lower labour cost

Built for heavy-duty work, the hydraulic car shear safely processes car bodies, chassis and engines.

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EQUIPMENT STRUCTURE

Complete Three-Part System

Unlike traditional standalone scrap car shear equipment, ENERPAT develops a complete vehicle dismantling machine system consisting of three key components: **Hydraulic Dismantling Pliers, CAT 316GC Excavator Operating Platform, Bidirectional Vehicle Press Frame.**

Hydraulic Dismantling Pliers

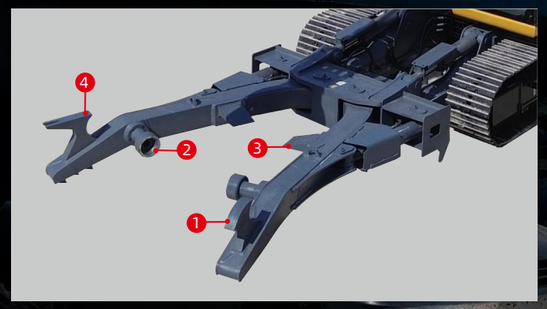
The specially designed hydraulic dismantling pliers provide powerful cutting and clamping performance.
The vehicle dismantling shear can efficiently process: Vehicle frames, Chassis structures, Engine components, Steel body panels,Heavy scrap metal parts.





Bidirectional Vehicle Press Frame

Used to hold down large objects or secure smaller objects for dismantling in conjunction with the nibbler tool.





Anchor
Used to bend long objects

Grip
Used to hold car or dash for dismantling

Teeth
Allows objects to be crushed or cut

Puller
Used to remove harness wire from instrument cluster and circuit boards

Arm holding valve

Prevent arm from falling if hose is damaged.

HD boom for auto recycling

Dedicated reinforced HD boom.

Specialized cab for auto recycling

- Front and side window with tear and penetration-resistance film
- 2 pieces wire mesh front guard (opens for cleaning)
- FOPS Level II top guard
- Work boot tray
- Air suspension seat with heat
- Cab entry step

Heavy counterweight

For maintaining balance while lifting heavy loads.

CAT 316GC Excavator Operating Platform

ENERPAT selects the reliable CAT 316GC excavator (15 tons) as the operating platform.

- Strong hydraulic power output
- Excellent stability during dismantling
- Proven reliability for heavy-duty recycling operations
- Flexible movement in scrap yards and dismantling facilities

MACHINE DETAILS

Performance X Design



Heavy-Duty Hydraulic Cutting System

The hydraulic system provides stable working pressure and continuous cutting performance, making the equipment suitable for long-term scrap vehicle processing.



Replaceable Wear-Resistant Blades

The reinforced blade structure improves service life and reduces maintenance frequency in harsh recycling environments.



Excavator-Mounted Design

The excavator-mounted structure provides: High mobility, Large working range, Easy operation, Better adaptability for different yards.



High-output Engine

Engines matched to provide maximum performance and smoother operations for lifting and pulling applications.



LED Lights for Improving Work Visibility

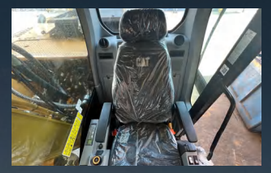
The excavator is equipped with bright LEDs to ensure excellent work visibility when working at night, during dusk, or when working inside.



Unique Engine Cooling System

It absorbs sound energy to minimize noise by making a path of air, which cools down the engine, which required a new design with two effect ducts on top, to secure ample space to absorb engine noise.

Renewed Usability and Comfort



Air Suspension Seat

Air suspension seat with heat is standard. It has superior shock absorption and can be used for long periods of time and reducing fatigue.



Stress-free Work Performance

The nibbler open/close and rotate functions are controlled by proportional slides on the joysticks that allow for smooth and precise movement. Fine movements, and clamp-arm movements can be easily performed. and clamp-arm movements can be performed simultaneously in combination with the foot pedal for increased work efficiency.



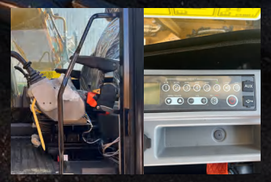
Better Visibility for Better Safety

The body has cameras on the rear, right, and left sides. The large color monitor can be used to check the visibility around the machine for additional safety. Multiple viewing options allow the operator to customize what is being displayed.



Direct access to operational status

The system records real-time fuel consumption, operating temperature and equipment running status. All data can be analyzed to optimize fuel usage efficiency, meanwhile providing reliable reference for regular maintenance and fault inspection.



Equipment That Improves Time Spent In The Cab

- Left auxiliary handrail beside the operator seat
- 24 V Power supply & USB port
- FM / AM Bluetooth® (hands-free) Radio

MACHIN SPECIFICATIONS

The CAT 316GC excavator (15 tons)

Engine Model C3.6	
Net Power - ISO 9249	77.3 kW (104 HP)
Engine Power - ISO 14396	82 kW (110 HP)
Bore	98 mm (4")
Stroke	120 mm (5")
Swing Mechanism	
Swing Speed	11.5 r/min
Maximum Swing Torque	43 kN·m (31634 ft·lbf)
Machine Weight	
Operating Weight	14300 kg (31500 lb)
Maintenance & Refill Capacities	
Fuel Tank Capacity	237 L (62.6 gal)
Cooling System	11 L (2.9 gal)
Engine Oil	11 L (2.9 gal)
Final Drive - Each	3 L (0.8 gal)
Hydraulic System - Incl. Tank	145 L (38.3 gal)
Hydraulic Tank	77 L (20.3 gal)
Hydraulic System	
Main System - Maximum Flow	268 L/min (71 gal/min)
Maximum Pressure - Equipment	35000 kPa (5076 psi)
Maximum Pressure - Travel	35000 kPa (5076 psi)
Maximum Pressure - Swing	26000 kPa (3770 psi)
Boom Cylinder - Bore	105 mm (4")
Bucket Cylinder - Bore	100 mm (4")
Boom Cylinder - Stroke	1015 mm (40")
Bucket Cylinder - Stroke	939 mm (37")
Stick Cylinder - Bore	120 mm (5")
Stick Cylinder - Stroke	1197 mm (47")
Working Range & Forces	
Boom	HD 4.65 m (15'3")
Stick	HD 2.5 m (8'2")
Bucket	0.7m³
Maximum Digging Depth	5530 mm (18.1')
Maximum Reach at Ground Level	8180 mm (26.8')
Maximum Dump Height	8500 mm (27.9')
Maximum Loading Height	6110 mm (20')
Minimum Loading Height	2020 mm (6.6')
Maximum Dig Depth with 2440 mm (8') Flat Bottom	5330 mm (17.5')
Maximum Vertical Wall Dig Depth	4860 mm (15.9')
Bucket Digging Force - ISO	109 kN (24500 lbf)
Stick Digging Force - ISO	75 kN (16860 lbf)
Dimensions	
Shipping Height - Cab Top	2780 mm (9.1')
Handrail Height	2830 mm (9.3')
Shipping Length	7770 mm (25.5')
Tail Swing Radius	2290 mm (7.5')
Counterweight Clearance	900 mm (2.9')
Ground Clearance	425 mm (1.4')
Track Length	3750 mm (12.3')
Roller Center Distance	3040 mm (9.9')

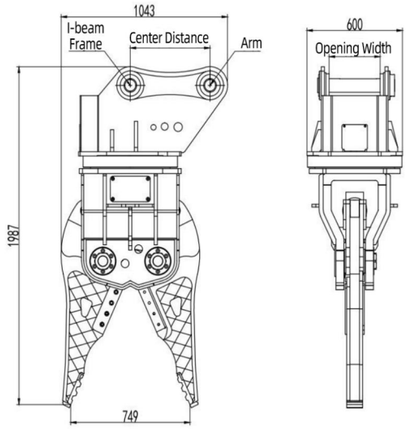
MACHIN SPECIFICATIONS

Track Gauge	1990 mm (6.5')
Transport Width	2490 mm (8.2')
Length - Roller Center Distance	3040 mm (10')

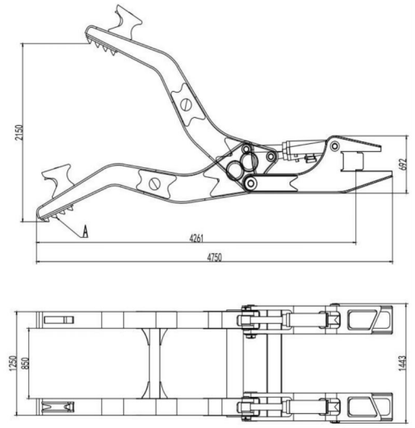
Agile Vehicle Dismantling Pliers

Car Dismantling Shear	
Overall Dimensions	1957x600x983 mm (77"×23.6"×38.7")
Packing Wooden Case Dimensions	2100x750x1010 mm (82.7"×29.5"×39.8")
Pallet Overall Dimensions	1400x500 mm (55.1"×19.7")
Total Weight	940 kg (2072.3 lb)
Max. Opening	750 mm (29.5")
Blade Length	280 mm (11")
Swing Diameter	593 mm (23.3")
Working Flow Rate	180-200 L/min (47.6-52.8 GPM)
Working Pressure	240-280 kg/cm² (3413.6-3982.5 PSI)
Motor Displacement	630 ml/r (38.4 in³/r)
Hose Diameter	G1/2 inch (1/2" NPT)
Cylinder Bore Diameter	Ø125 mm (Ø4.9")
Piston Rod Diameter	Ø80 mm (Ø3.1")
Max. Shearing & Clamping Force	115 t (126.8 US tons)
Compatible Excavator	12-25 t (13.2-27.6 US tons)
Dipper Arm Opening / H-Frame Opening	200-260mm (7.9"-10.2") (Customizable)
Center Distance	390mm (15.4") (Customizable)

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Agile Vehicle Dismantling Pliers



Bidirectional Vehicle Press Frame

Bidirectional Vehicle Press Frame

Car Press Frame	
Overall Dimensions	4750x1443x692 mm (187"×56.8"×27.2")
Total Weight	2153 kg (4746.6 lbs)
Max. Lifting Height	2000 mm (78.7")
Min. Pressing Height	-150 mm (-5.9")
Clamping Force at Point A	26 kN (5.8 kips)
Opening Range (Upper & Lower)	2150 mm (84.6")
Working Flow Rate	110-130 L/min (29.1-34.3 GPM)
Working Pressure	220-250 kg/cm² (3129.1-3555.8 PSI)
Hose Diameter	G1/2 inch (1/2" NPT)
Cylinder Bore Diameter	Ø125 mm (Ø4.9")
Piston Rod Diameter	Ø90 mm (Ø3.5")
Compatible Host Machine	17-25 t (18.7-27.6 US tons)

SERVICE SUPPORT

Consulting

With over 10,000 installations in 100 countries worldwide, Enerpat has the experience to provide expert advice and the most appropriate solutions.

Customized Solutions

Provide sample testing and reports. Full service solutions, including customized solutions, equipment delivery, spare parts and technical service.

Commissioning

Technical service engineers, project managers and sales engineers are available for commissioning, and operators are trained in maintenance and operation.

After Sales Service

Enerpat has three regional service centers in the UK, China and the USA to provide remote technical support to ensure a rapid response.

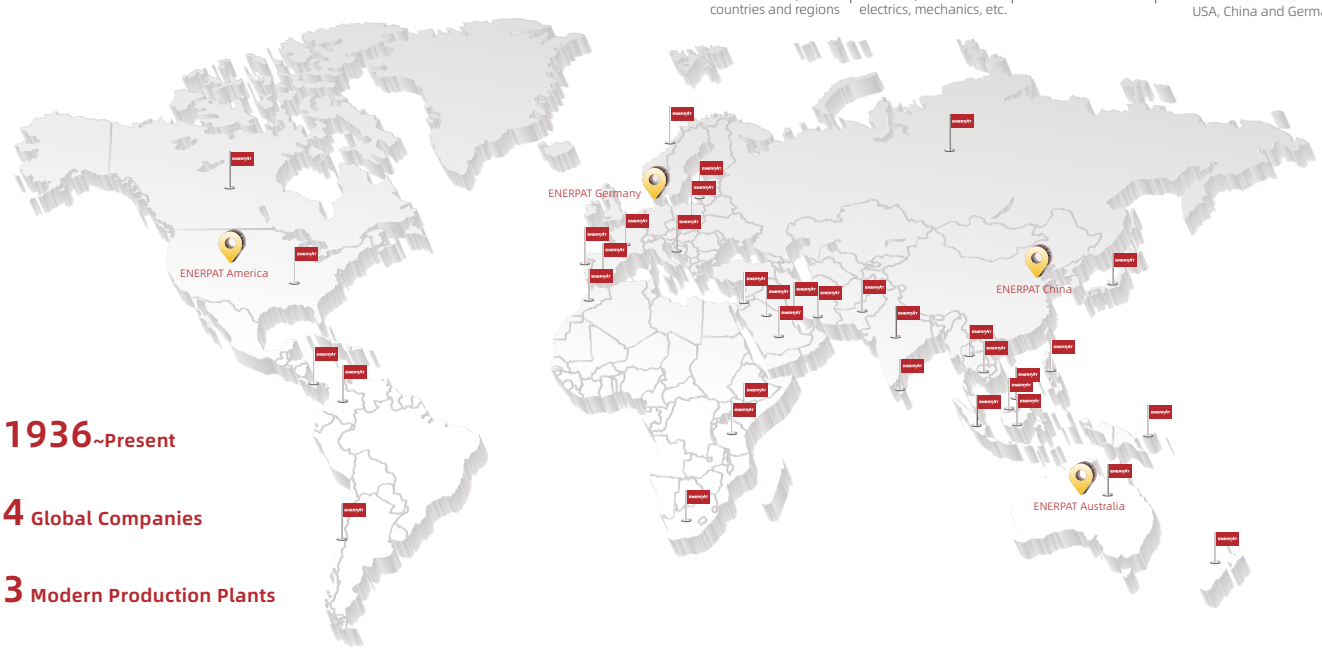
ENERPAT Global Presence

165
Products and services for many countries and regions

650+
Technical specialists in hydraulics, electrics, mechanics, etc.

500+
Marketing and service staff

Global Production Sites
Three modern production sites in the USA, China and Germany



- **1936**~Present
- **4** Global Companies
- **3** Modern Production Plants

ENERPAT Global Selected Customer Performance Table

Hydro · 中铝国际 · SAC · BASF The Chemical Company · BAYER · CAT · BMW · SIEMENS · 上海电气 · 三菱重工 · KOBELCO · VEOLIA · BOSCH · HAILIANG 海亮 · ANSTEEL

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