



**FASTER.  
SAFER.  
STRONGER.**



# Leading the Future of Subsea Engineering

Advanced Tools Designed for Efficiency and Reliability



DECOM  
ENGINEERING

# Decom Engineering: Innovators in Subsea Cutting and Decommissioning

Bringing Visionary Engineering to Life

Founded in 2011, Decom Engineering redefines subsea cutting and decommissioning standards through relentless innovation and technical excellence. As industry pioneers, we are committed to delivering cutting-edge solutions that address the most demanding underwater challenges. Our services, built on decades of expertise, are executed with precision, safety, and reliability.

Our state-of-the-art C1 series choppers are engineered to handle the toughest materials and environments, while our advanced R&D capabilities lead the way in subsea technology. Beyond equipment, we offer end-to-end project support, skilled technicians, and a fully equipped back deck spread designed to optimise every aspect of your subsea operations.

With a global reach and a deep understanding of local challenges, Decom Engineering is your trusted partner for decommissioning, cutting, and subsea engineering projects. Our reputation is built on delivering results that not only meet but exceed industry standards, ensuring your projects are completed on time, on budget, and with unparalleled quality.

*"Our journey has been one of constant growth and learning, fueled by our dedication to pushing the boundaries of what's possible. We've developed groundbreaking tools like the C1 series choppers to tackle the toughest underwater tasks, and we're continually advancing our technology to stay ahead of industry demands."*

*Sean Conway - Managing Director*

# From Concept to Reality:

## Our R&D Journey

### From Initial Brief to Final Product

At Decom Engineering, our commitment to research and development (R&D) is fundamental to advancing subsea technology and overcoming complex underwater challenges. Since our inception, we have dedicated ourselves to designing and refining cutting-edge tools that address real-world needs in the decommissioning industry.

Our initial foray into R&D produced a series of innovative saws specifically tailored to the demands of subsea decommissioning. The C1-12 and C1-24 Chop Saws were designed based on extensive research into the needs of decommissioning projects, delivering industry-leading performance across a range of materials and conditions.

Building on these foundational models, we introduced the C1-46 Chop Saw, which set new standards in subsea cutting. Developed for Shell's Brent Field decommissioning project, the C1-46 demonstrated remarkable efficiency, achieving up to 79 cuts per deployment with a 99.05% success rate. This saw significantly reduced operational downtime and complexity.

Our latest advancements include the C1-32 Chop Saw, the first of its kind to offer neutral buoyancy, eliminating the need for crane support and enhancing operational flexibility in deepwater environments. This innovative design allows for ROV maneuverability and simplifies underwater operations.

The C1-16 Chop Saw, currently in development, will further advance our capabilities by addressing the specific challenges of cutting flexible risers and mooring chains under tension. This tool is designed to provide precision and reliability in high-stress scenarios, reducing blade change frequency and improving overall efficiency.

Through our relentless pursuit of innovation and dedication to solving complex subsea challenges, Decom Engineering remains at the forefront of technology, delivering solutions that drive efficiency, safety, and success in every project.



# How We Work: Excellence in Every Step

## Expert Technicians with Unmatched Skill

At Decom Engineering, we pride ourselves on a holistic approach to subsea engineering, where every project is managed with precision, safety, and efficiency. Our process begins with close collaboration with our clients, ensuring we understand the unique challenges of each project. From initial planning to execution, our experienced team works diligently to deliver solutions that not only meet but exceed expectations.

Our skilled technicians are the backbone of our operations. With years of hands-on subsea experience, they bring unparalleled expertise to every job. Continuous training ensures they are always equipped with the latest techniques and safety standards, enabling them to operate in the most demanding underwater environments. Whether it's deploying our cutting-edge C1 series saws, developing custom tools for complex projects, or managing comprehensive back deck spreads, our technicians deliver with professionalism and precision.

Beyond just equipment and tools, we offer a full suite of services designed to support our clients from start to finish. This includes everything from initial site assessments and project planning to real-time technical support during operations. Our commitment to R&D ensures we stay at the forefront of subsea technology, continuously innovating to solve the toughest challenges our clients face.

Decom Engineering isn't just a service provider; we're a partner in your project's success, dedicated to delivering results that keep your operations running smoothly, efficiently, and safely.



# Global Reach, Local impact:

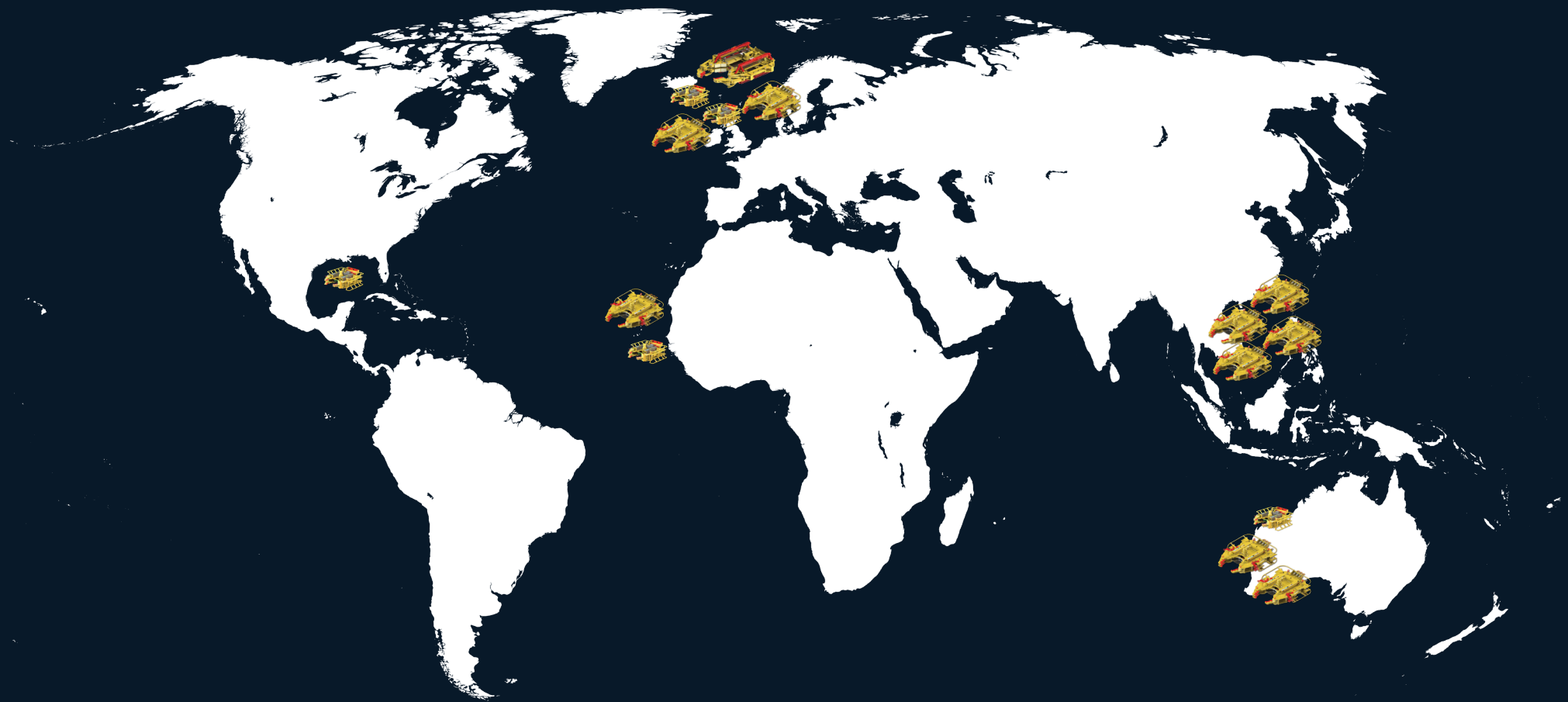
## Strategic Placement for Rapid Service

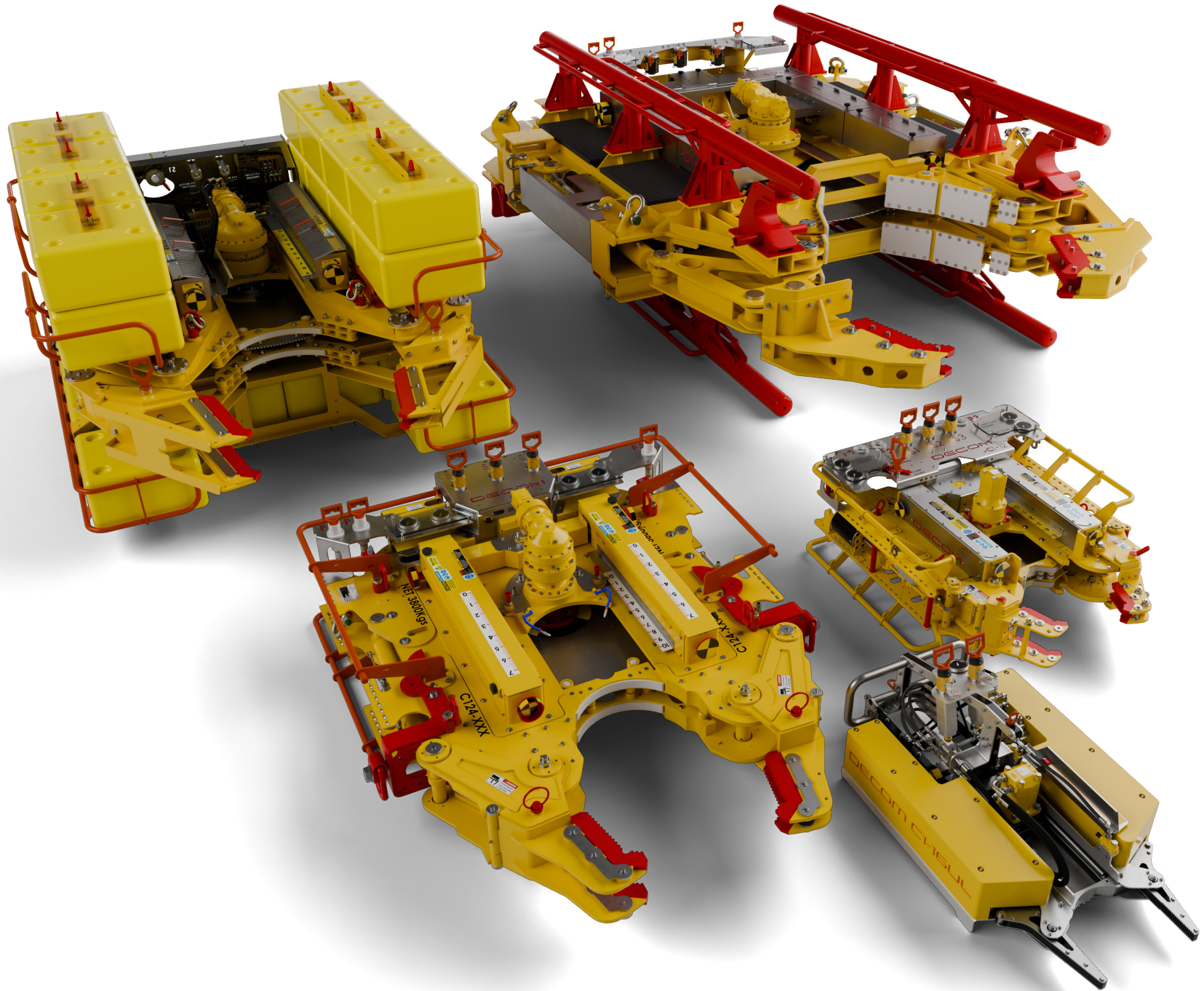
Ready for Any Challenge, Anywhere

At Decom Engineering, our operations span the globe, reaching from the North Sea to the shores of Australia, and from the coasts of Brazil to the waters of Africa and Southeast Asia. We understand that in the subsea industry, proximity and swift response are critical. That's why we have strategically placed our equipment and resources across key locations worldwide, ensuring we can mobilise quickly and efficiently for projects wherever they arise.

Our Aberdeen base serves as a central hub, supporting our operations with state-of-the-art facilities and a team of skilled technicians ready to respond at a moment's notice. This allows us to maintain the high standards of service and reliability that our clients expect, no matter where the project is located. From decommissioning projects in the North Sea to complex underwater operations in Malaysia and Taiwan, our global footprint ensures we are always within reach, ready to deliver tailored solutions with unmatched precision.

With equipment positioned in strategic locations and a robust logistics network, Decom Engineering is equipped to meet the demands of any subsea project. Whether it's mobilising to a remote offshore site or deploying to a bustling port, our ability to act quickly and effectively makes us a trusted partner for clients around the world.





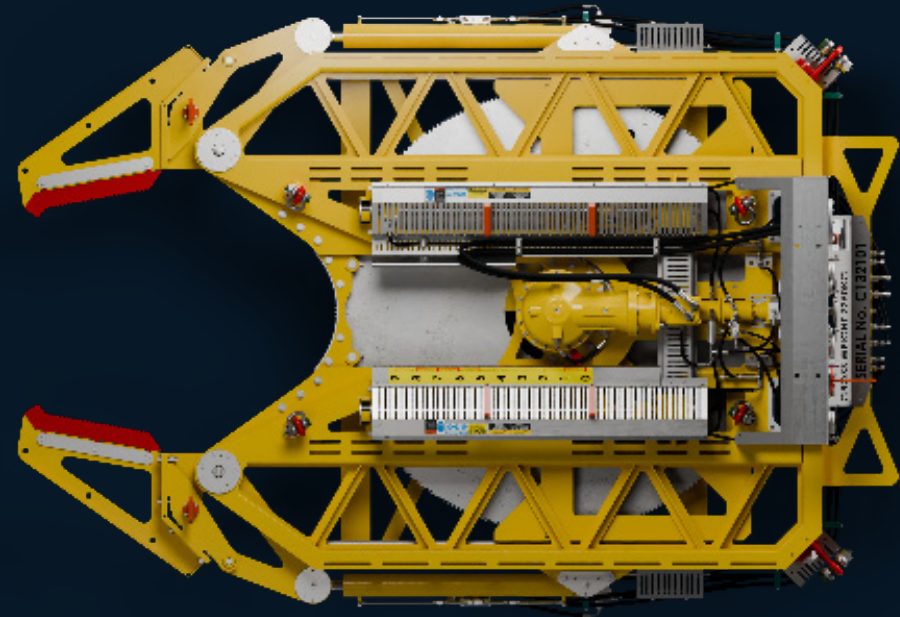
# The C1 Chopsaw Range: Innovation Through the Years

## A Look at Our Evolving Saw Designs

At Decom Engineering, our range of saws reflects a legacy of engineering excellence and innovation in subsea cutting technology. Our journey began with the introduction of the C1-12 and C1-24 models, which have long been trusted choices in the industry. The C1-24, in particular, has become a fleet favourite, renowned for its reliability and versatility across various subsea projects.

In the past two years, we've expanded our offerings with the launch of the C1-46, C1-16, and C1-32 models, each designed to address new challenges and demands in subsea cutting. The C1-46 was developed to handle exceptionally tough cuts with remarkable efficiency, while the C1-16 and C1-32 represent our latest advancements in cutting technology. Notably, the C1-32 stands out as a first-of-its-kind, featuring neutral buoyancy that eliminates the need for a crane, enhancing its versatility and ease of deployment.

Each saw in our family is crafted with precision and purpose, reflecting our ongoing commitment to pushing the boundaries of subsea technology. As we continue to innovate and adapt, our saws remain at the forefront of cutting-edge solutions for the industry.





# C1-12

A First to Market Innovation

|  |                         |
|--|-------------------------|
| Cutting capability                       | 0" - 12" (50mm - 305mm) |
| Hydraulic requirements                   | 100 L/min @ 210 bar     |
| Weight in air                            | 1220kg                  |
| Weight in water with integrated buoyancy | 50kg                    |
| Dimensions                               | 1924mm x 1651mm x 831mm |
| Blade Diameter                           | 900mm                   |
| Nominal RPM                              | 60                      |

## APPLICATIONS

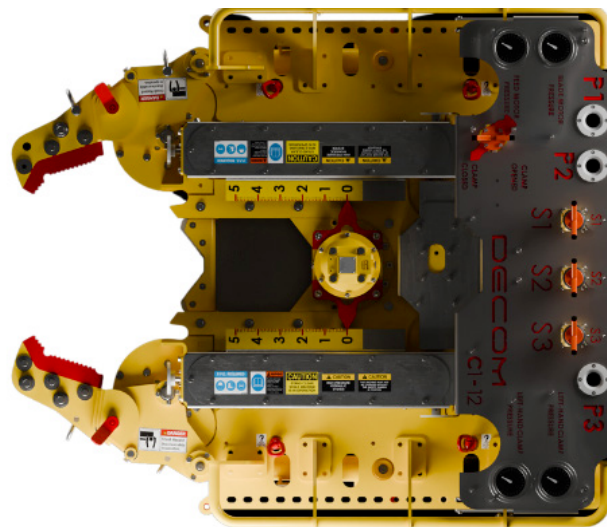
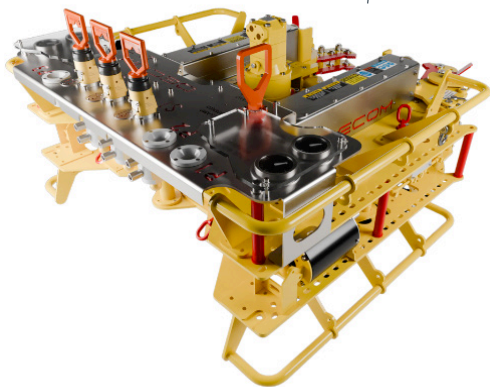
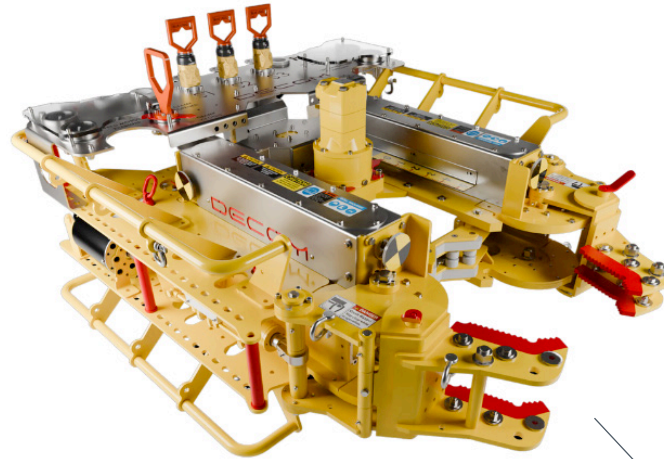
- Pipe – coated or bare
- Jacket structures, box sections
- Casing
- Mooring chain
- Solid bars
- Umbilicals and cable

The Decom Engineering C1-12 Chopsaw revolutionises subsea cutting with its pioneering design, engineered specifically for materials ranging from 2" to 12" in diameter. This innovative tool sets a new standard with market-leading cut times across a variety of challenging materials, including inconels, duplex, and concrete.

Its customisable clamping system and versatile deployment options make it adaptable to a wide range of project requirements and environments, ensuring precise, reliable performance in even the most demanding conditions.

## Features

- 0" to 12" cutting capacity
- Fast, clean square cuts
- Market-leading cut times
- Up to 100 cuts per blade (application dependent)
- Operates topside or via ROV
- User-friendly control panel
- Robust shipping cage with spares
- Adaptable to various surroundings and structures
- Multiple lifting points for versatile deployment angles
- Customisable setup to meet project needs
- Adjustable clamping for various shapes and sizes
- Blade changes in 20-30 minutes



## Product Benefits

- Large cost savings and increased efficiency due to multiple cuts per blade (up to 100 cuts, depending on application)
- Ability to complete an array of cuts whilst subsea or held in wet storage without returning to the surface
- The water cooling system reduces overheating and improves cutting performance for surface cuts
- Flexible setup and customisable clamping system allows efficient handling of various project requirements
- Quick blade change minimises downtime and maximises productivity
- Can cut vertically, horizontally, or at an angle, providing flexibility in challenging environments

# C1-16UL

Built for Subsea Precision

**Cutting capability** 0" – 16" (0mm – 406mm)

**Hydraulic requirements** 60 L/min @ 210 bar

**Weight in air** 220kg

**Weight in water with integrated buoyancy** 70kg

**Dimensions** 1860mm x 1220mm x 620mm

**Blade Diameter** 1100mm

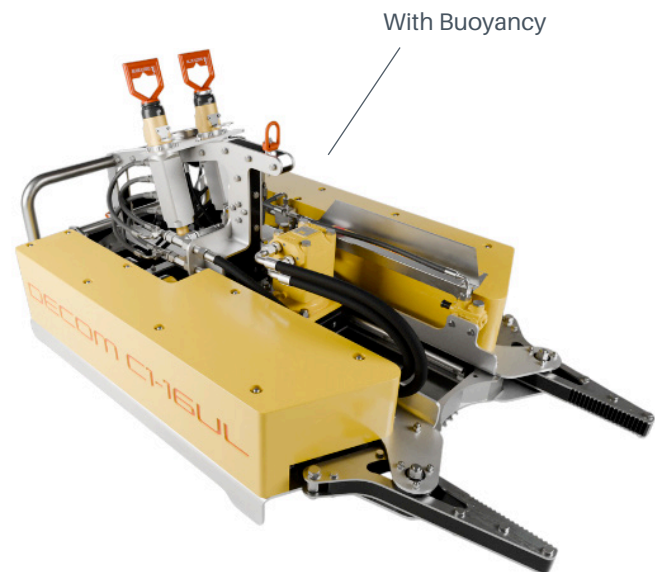
**Nominal RPM** 60

## APPLICATIONS

- Mooring chain (In tension or slack)
- Flexible Flowlines
- Flexible Risers (In tension or slack)
- Carbon Steel Pipe
- PU Coated Pipe
- Super Duplex
- Restricted crane access cutting
- Inconels

The Decom Engineering C1-16 UL is a purpose-built subsea cutting tool, expertly designed to handle the demanding task of cutting flexible risers and mooring chains under tension, often found beneath floating structures, riser turret moorings (RTMs), and deepwater tensioned moorings (DTMs). Equipped with Decom Engineering's proprietary Tungsten Carbide Tipped (TCT) blade, the C1-16 UL ensures that each cut is not only fast but also exceptionally clean and precise.

This level of performance reduces the frequency of blade changes, significantly cutting down on operational downtime and minimising the need for saw recovery operations. The result is a more efficient, reliable cutting process that keeps your subsea operations running smoothly.

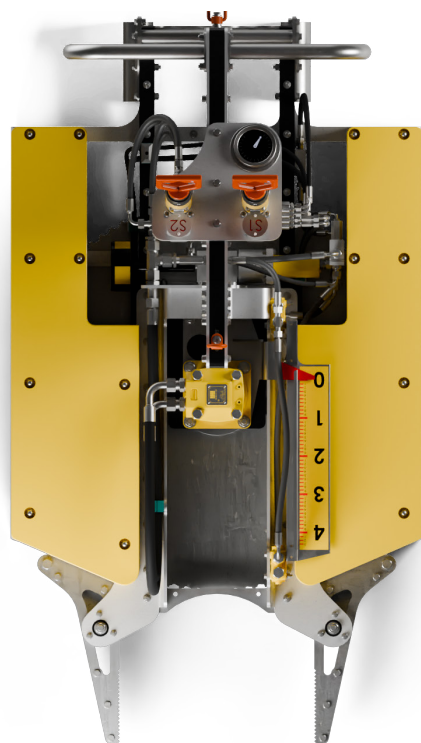


With Buoyancy

## Product Benefits

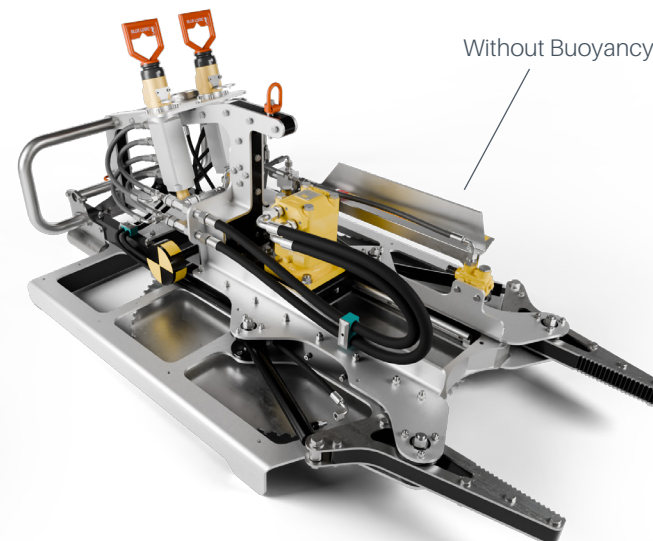
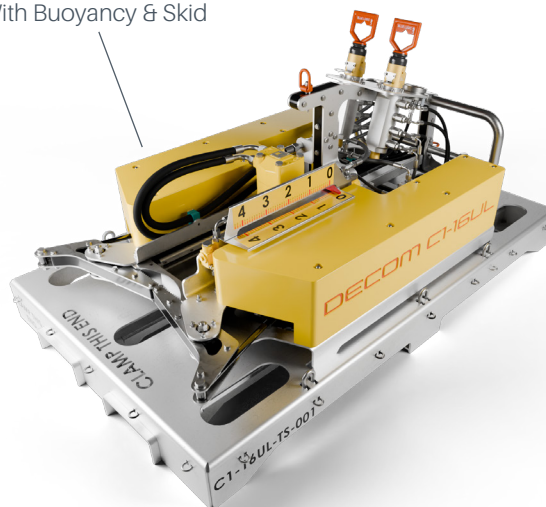
- High Efficiency and Cost Savings: Each blade is capable of performing between 20 to 100 cuts, depending on the application, significantly reducing costs and enhancing operational efficiency.
- Versatile Cutting Orientations: Our technology allows for cuts to be made in any orientation, providing flexibility in various operational scenarios.

- ROV Manoeuvrability: The equipment can be easily maneuvered by a remotely operated vehicle (ROV), eliminating the need for a crane and enabling access to challenging locations.
- Quick Blade Changes: Blade changes are fast and efficient, taking only 5 minutes, which minimises downtime and maximises productivity.
- Crane-Free Operation: Cuts can be performed in areas where crane access is not possible, offering greater versatility and adaptability in subsea operations.



With Buoyancy

With Buoyancy & Skid



Without Buoyancy

# C1-24

The Fleet's Go-To

## APPLICATIONS

- Pipe – coated or bare
- Jacket structures, box sections
- Casing
- Mooring chain
- Solid bars
- Umbilicals and cable

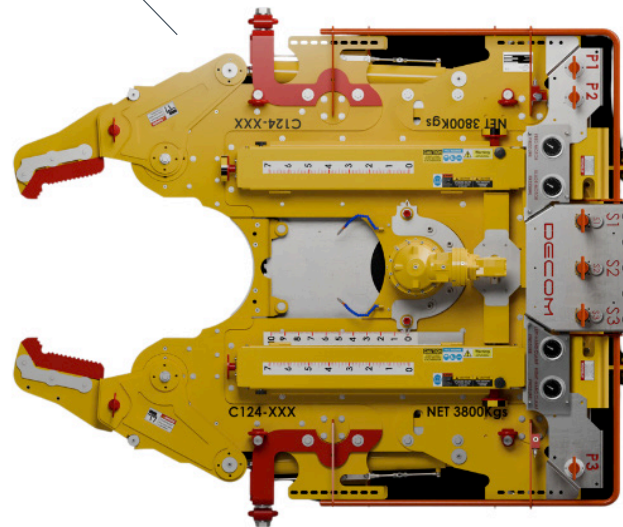
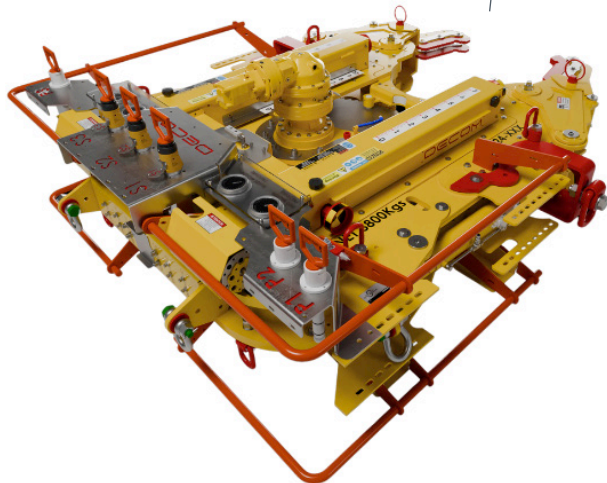
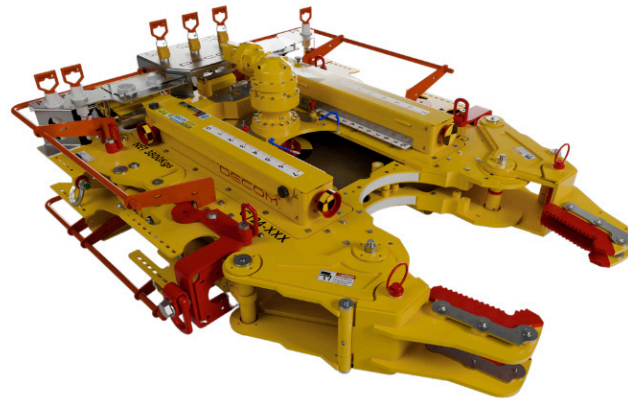
The Decom Engineering C1-24 Chopsaw stands at the forefront of subsea cutting technology, designed to handle materials ranging from 2" to 24" in diameter with unparalleled precision and efficiency. Engineered as our flagship model, the C1-24 has earned its reputation for delivering market-leading cut times across a diverse array of materials, including inconels, duplex, and concrete. Its robust construction and innovative features, such as a unique water cooling system and customisable setup options, ensure optimal performance in the most challenging subsea environments.

Deployed globally within our fleet, the C1-24 Chopsaw exemplifies reliability and versatility, meeting the demands of various offshore projects worldwide. Whether operated topside or by ROV, its operator-friendly design and adaptable clamping system facilitate seamless integration into different operational scenarios.

|  |                          |
|--|--------------------------|
| Cutting capability                       | 0" – 24" (50mm – 610mm)  |
| Hydraulic requirements                   | 100 L/min @ 210 bar      |
| Weight in air                            | 3,800kg                  |
| Weight in water with integrated buoyancy | 100kg                    |
| Dimensions                               | 3033mm x 2236mm x 1002mm |
| Blade Diameter                           | 1520mm                   |
| Nominal RPM                              | 27                       |

## Features

- 0" to 24" cutting capacity
- Fast, clean square cuts
- Market-leading cut times
- Up to 100 cuts per blade (application dependent)
- Operates topside or via ROV
- User-friendly control panel
- Robust shipping cage with spares
- Adaptable to various surroundings and structures
- Multiple lifting points for versatile deployment angles
- Customisable setup to meet project needs
- Adjustable clamping for various shapes and sizes
- Blade changes in 20-30 minutes



## Product Benefits

- Large cost savings and increased efficiency due to multiple cuts per blade (up to 100 cuts, depending on application)
- Ability to complete an array of cuts whilst subsea or held in wet storage without returning to the surface
- The water cooling system reduces overheating and improves cutting performance for surface cuts
- Flexible setup and customisable clamping system allows efficient handling of various project requirements
- Quick blade change minimises downtime and maximises productivity
- Can cut vertically, horizontally, or at an angle, providing flexibility in challenging environments

# C1-32

## Advanced Buoyancy and Manoeuvrability

### APPLICATIONS

- Pipe – coated or bare
- Jacket structures, box sections
- Casing
- Mooring chain
- Solid bars
- Conductors
- Umbilicals and cable

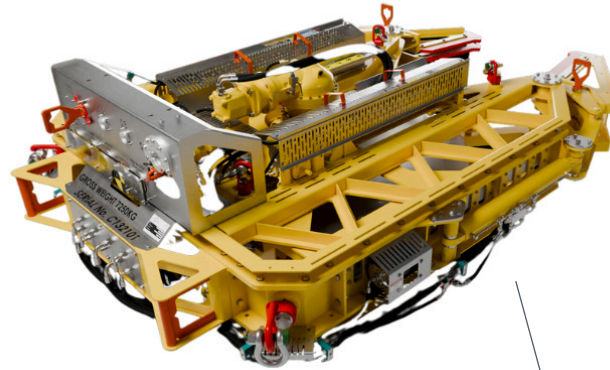
The Decom Engineering C1-32 Chopsaw represents our pinnacle achievement in 2024, setting new benchmarks in subsea cutting technology. Designed to handle materials from 0" to 32" in diameter, this flagship model incorporates state-of-the-art features to deliver exceptional performance across diverse applications.

Engineered with advanced buoyancy capabilities, the C1-32 ensures seamless maneuverability with ROVs, eliminating the need for crane wires when buoyancy modules are attached. Its innovative design includes replaceable blade tips, reducing operational costs and downtime associated with blade maintenance.

|  |                          |
|--|--------------------------|
| Cutting capability                       | 0" – 32" (0mm – 813mm)   |
| Hydraulic requirements                   | 150 L/min @ 210 bar      |
| Weight in air                            | 5,300kg                  |
| Weight in water with integrated buoyancy | 0-50kg                   |
| Dimensions                               | 4125mm x 3000mm x 2180mm |
| Blade Diameter                           | 2100mm                   |
| Nominal RPM                              | 20                       |



With Buoyancy

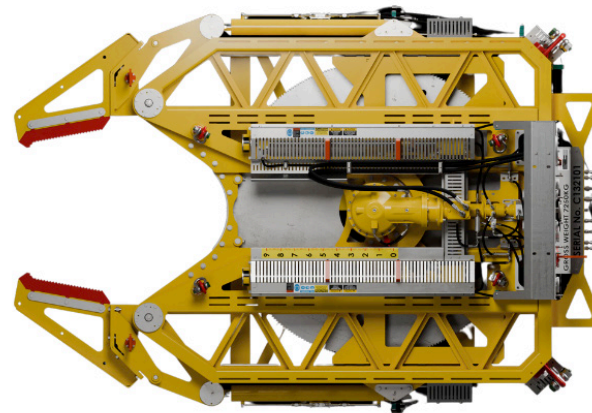


Without Buoyancy

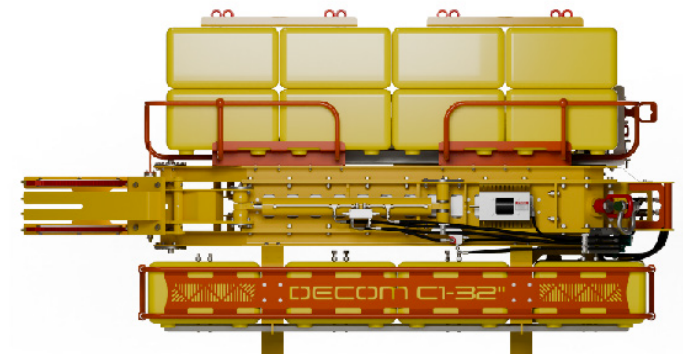
## Features

- 0" to 32" capacity
- Fast and clean cut
- Buoyant design for easier subsea handling
- Market leading cut times
- Multiple cuts per blade: up to 100 depending on application
- Topside or ROV operated
- Operator-friendly control panel
- Highly adaptable to suit surroundings and structures
- Multiple lifting points located around the tool allowing a highly versatile angle of deployment
- Comes with a comprehensive spares package in a compact, robust transport cage.

Without Buoyancy



With Buoyancy



## Product Benefits

- Multiple cuts per blade, up to 100 depending on application, leading to significant cost savings and increased efficiency.
- Operated topside with an operator friendly control panel or by ROV
- Large cutting capacity (up to 32") offers flexibility for various applications
- Highly adaptable with customizable clamping and multiple lifting points for versatile deployment.
- Neutrally buoyant in seawater, allowing easy maneuverability with an ROV without the need for a crane wire.
- Replaceable blade tips eliminate the need for full blade replacement.

# C1-46

## A Giant in Chopsaw Technology

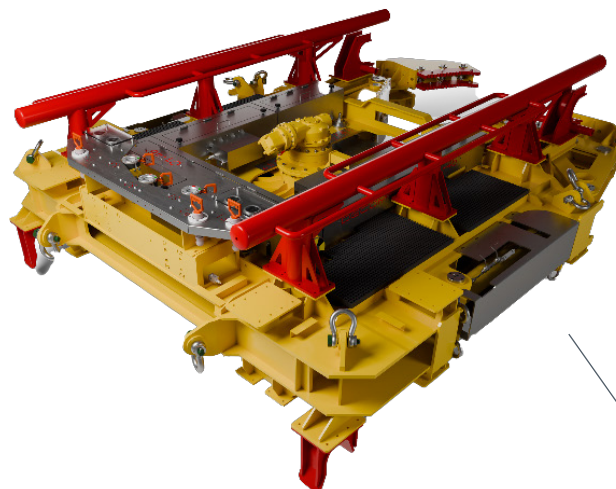
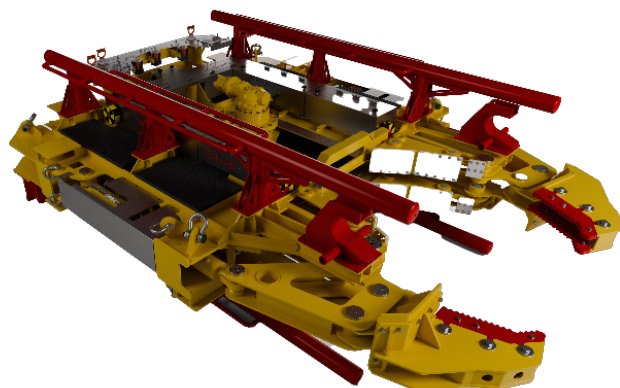
### APPLICATIONS

- Pipe – coated or bare
- Jacket structures, box sections
- Casing
- Mooring chain
- Solid bars
- Conductors
- Umbilicals and cable

The C1-46 Chop Saw was developed in response to client-led needs, setting new standards in subsea cutting technology. Designed to handle large OD pipelines up to 46" in diameter, including those with concrete coating and steel rebar, the C1-46 is a game-changer in its field.

This saw boasts key features such as DNV certification for the highest safety and performance standards, rapid customisation of clamps to adapt to various project requirements, and hot stab integration for seamless and efficient operation. Its safe and robust landing frame ensures stability and security during operations, while blade innovation with segmented tip technology reduces deck handling and enhances cutting efficiency.

|  |                            |
|--|----------------------------|
| Cutting capability                       | 20" – 46" (508mm – 1168mm) |
| Hydraulic requirements                   | 200 L/min @ 210 bar        |
| Weight in air                            | 14,340kg                   |
| Weight in water with integrated buoyancy | 12,082kg                   |
| Dimensions                               | 6000mm x 4450mm x 2000mm   |
| Blade Diameter                           | 3050mm                     |
| Nominal RPM                              | 10-13.5                    |

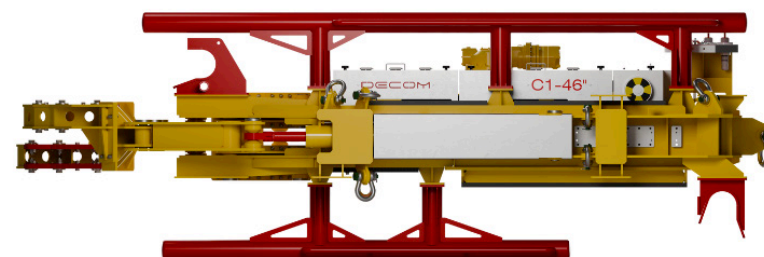
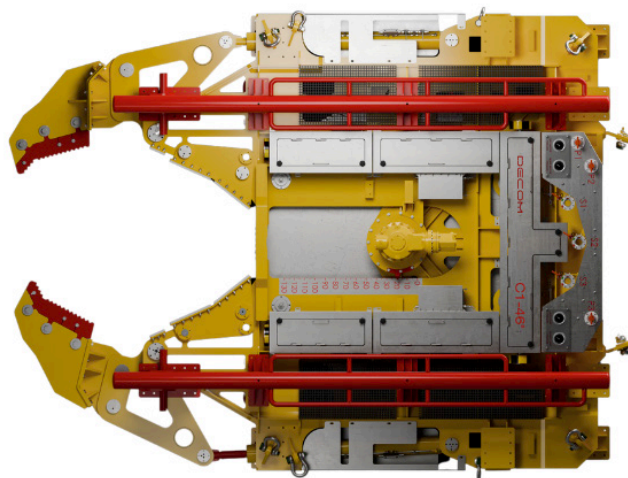


## Product Benefits

- Multiple cuts per blade, up to 100 depending on application, leading to significant cost savings and increased efficiency.
- Can complete an array of cuts whilst subsea or held in wet storage – without returning to the surface.
- Changeable cutting tips extend blade life and reduce operational costs
- The C1-46 Chopsaw can be supplied set up in a number of configurations and settings to suit project requirements and work scope.
- Customisable clamping system allowing the flexibility to clamp around a vast array of shapes and sizes.
- Can cut vertically, horizontally or at an angle.

## Features

- 20" to 46" capacity
- Fast and clean cut
- Market leading cut times
- Multiple cuts per blade: up to 100 depending on application utilising changeable tips
- Topside or ROV operated
- Operator-friendly control panel
- Highly adaptable to suit surroundings and structures
- Multiple lifting points located around the tool allowing a highly versatile angle of deployment



# Comprehensive Solutions: The Back Deck Spread

## Full Back Deck Support for Subsea Projects

At Decom Engineering, our back deck spread offers a complete suite of specialised equipment designed to tackle every challenge in subsea operations. Our approach integrates cutting-edge technology with operational efficiency to ensure your projects run smoothly and effectively, no matter the complexity.

### Dredging Equipment and Mass Excavation:

Our rugged dredging tools clear sediments and debris efficiently, ensuring a clean workspace for marine construction, port maintenance, and decommissioning. Built for harsh underwater conditions, these tools provide consistent, dependable performance.

### Cement Jet Tooling:

Precision is critical, and our durable cement jet tooling delivers reliable, consistent results. Easy to operate, these tools handle a variety of tasks in challenging environments, ensuring effective performance every time.

### Mag Drills:

For precise subsea drilling, our magnetic drills offer stability and accuracy. They securely attach to metal surfaces, ensuring clean, accurate holes even in demanding conditions.

### Subsea Shears:

Our subsea shears are engineered for strength and precision, effortlessly cutting through various materials. Designed for durability and ease of use, they are perfect for decommissioning projects and other cutting tasks.

### Subsea Grabs:

Efficiently handling and moving debris from the seabed, our subsea grabs excel in challenging conditions. They are built for durability and easy operation, ensuring effective material handling.

### SPRT Tools:

Versatile and efficient, our SPRT tools fluidize soils and clean marine growth or sediments. With a rotating jetting head and high-pressure pump, they offer comprehensive dredging capabilities.

### Pinning and Lifting Technology:

Ideal for pipelines, conductors, and caissons, our pinning and lifting technology drills two lift pin holes simultaneously with precision. This technology streamlines cutting and drilling tasks for decommissioning.

### HPU, Reelers, and Hot Stabs:

Supporting our operations, our Hydraulic Power Units (HPUs) provide reliable hydraulic power, reelers manage deployment and retrieval, and hot stabs ensure quick, secure hydraulic connections. Designed for durability and efficiency, they are crucial for smooth subsea operations.

Our back deck spread is strategically designed to support every aspect of your subsea projects, ensuring you have the right tools at the right time. Each piece of equipment is chosen for its reliability, efficiency, and performance, enabling us to deliver exceptional results in even the most demanding conditions.

C2

F2

B2

Part No: 811-014-001-018  
DATE: 12-0A-2024

Part No: 811-014-001-03  
Mfg date: 12-04-2024  
17-22" Chord

MC Type: C1-32 Chop  
Mfg date: 12-04-2004

Part No: 877-014-074

g date: 12-04-2024  
Type: C1-32" Chop Saw

Part No: 871-014-001-025



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