



We Are MDL

MDL
INGENIOUS INSTINCT

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For equipment in our rental
range, look for this symbol:



YOUR TRUSTED PARTNER

Maritime Developments provides tailored consultancy, equipment and personnel packages for the global energy sectors.

Applying our proven market leadership, deep industry insight and long track record, we work closely with clients to deliver maximum efficiencies at minimal risk.

Our innovative in-house design is forward-thinking, but our work formula is simple: listen, design, deliver, support.

That is why our clients pick MDL as their trusted partner for pipelay, equipment life extension and decommissioning.

OUR MISSION

To be the global leader in the delivery of alternative engineering solutions, which are inspired by creativity, driven by people and add value by solving challenges faced by our customers.



QHSE COMMITMENT

Signed. Sealed. Safely Delivered.

At Maritime Developments we put our heart into everything we do: from design to manufacture and from delivery to asset management; and we take the best care of the things we love.

Maintaining the highest health, safety, environmental and quality practices comes naturally to us - we know that if we take care of our business, the business will take care of us in return.



In our pursuit of providing forward-thinking solutions to our clients, we have set it as our principle not only to comply with required occupational, health, safety and environmental laws, imposed by the Health & Safety at Work Act, but also to surpass them. Why settle for good, when you can be better?



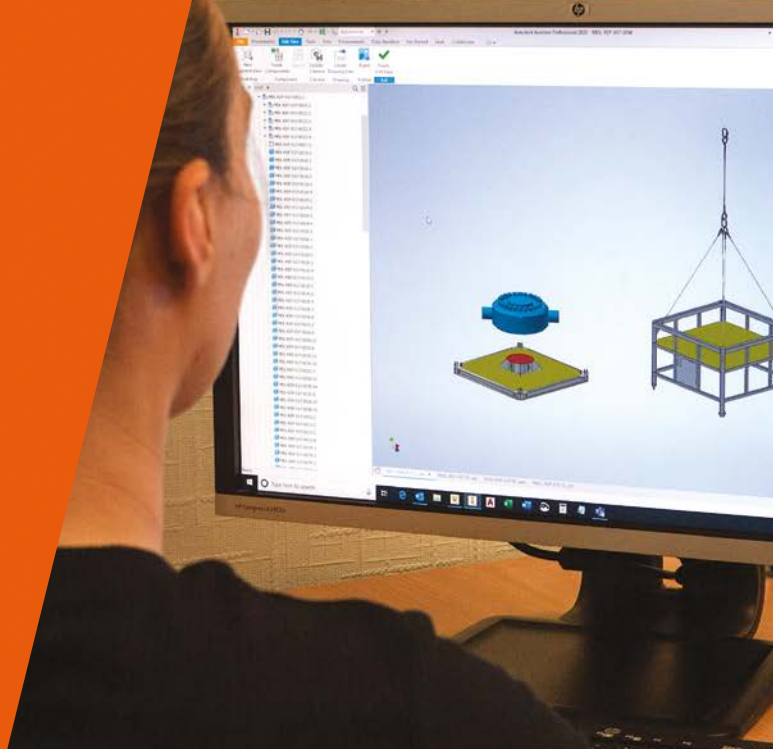
INGENIOUS INSTINCT

From our beginnings manufacturing equipment for the fishing industry in the north-east of Scotland, to supplying complete flex-lay spreads to operators around the globe: we've seen a lot.

Years of experience on the back deck have taught us how to handle the challenges thrown by the marine industry: successfully and cost-effectively.

But it's our creative minds with down-to-earth and no-nonsense approach that help us create solutions to tackle those challenges that are yet unknown – preparing our equipment for the future, today. This combination makes us unique...

We call it our Ingenious Instinct.



PORTABILITY AT HEART

Time is money - and no one knows this better than offshore operators. That is why we have written portability into every MDL design.

This is a core feature of our equipment, which allows transit by container or road to meet the product anywhere across the globe at a low cost.

Once at their destination port, our structures can be assembled at the quayside, off critical path in a short space of time, prior to the vessel's arrival.

This flexibility, combined with reduced sea-fastening and Plug & Play functionality, minimises vessel's idle time in port. Add to that the extra features which optimise the mission time while at sea - and therefore project budget.



OUR IN-HOUSE SERVICES

MDL is globally renowned for finding clear answers to the challenges around equipment life extension - a reputation backed by over 20 years of innovation and project management experience.

Our complete in-house capabilities allow us to survey, inspect, repair, maintain, upgrade and operate existing equipment. We can also specify, design, build and integrate new equipment, to suit a specific set of requirements.

Thanks to this comprehensive skillset, complemented by our project-focused mentality, trusted track record, and proactive and open customer approach,

we can help our clients ensure their equipment is safe to use and maintained to the correct standards, maximising operational uptime.

Our in-house Asset Maintenance & Engineering services cover:

- Project Management & Engineering
- Crane Maintenance & Integrity
- Mechanical Handling
- Hydraulics
- Electrics & Instrumentation



A HELPING HAND

Maritime Developments' personnel expertise extends to offshore where our highly skilled team supports your pipelay and lifting equipment, across the world.

All of MDL equipment operators are specialist technicians with expert knowledge of hydraulic or electric systems and software. Before joining the offshore crew, they undertake internal development through the delivery, maintenance and upgrades of MDL fleet, which means they become intimate with the equipment inside-out.

Combined with our extensive onshore talent, the One Team MDL also assists with troubleshooting on equipment and projects, including remote support or on location at the client facility.



AVAILABLE FOR RENT

Our signature orange-and-blue range offers the entire suite of SURF product handling solutions for hire: from individual units to a complete back-deck package.

Built with our inherent forward-thinking approach from the onset, and verified to industry-recognised code, the MDL fleet sets the market standard for innovative design, technical performance, safety, reliability and capability.

Our team developed through the delivery and commissioning of MDL systems, which makes them the most experienced operators on the market - and they are available on a simple Pay As You Go basis, to support your offshore campaign when required.

For equipment in our rental range, look for this symbol:







Pipe and Flex-lay Tensioners

Versatile, portable and compact - Maritime Developments' tensioner range holds the key to safe and efficient flex-lay operations, on land and at sea.

MDL tensioners ensure the integrity of the product is not compromised under tension during deployment, recovery or transpooling. All of the 2- and 4-track tensioners operate a unique grip system, eliminating single-point failure such as burst hoses or blackouts.

Featuring self-centring alignment and dual grip monitoring through load cells and transducers, MDL tensioners ensure the product is handled in the most optimum conditions at all times.

Owing to their portable design, all of the MDL systems can move by road to meet the products at their ports - and then, move between vessels, wherever they're required.

4-TRACK TENSIONERS

Our unique 4-track tensioner range has no equals: the patented MDL TTS-4/140 Series Tensioner design allows for two tracks to open in vertical mode, and a single track in horizontal or inclined mode, depending on specific project requirements.

The tracks are fitted with 'V' shaped pads and operate by gripping the product between the opposing track carriages with failsafe hydraulic cylinders.

The safety of the product is further reinforced by the active self-centring track system – this feature, as well as all other tensioner functions, are managed by a state-of-the-art control system, featuring wireless operation and remote dialup for service and maintenance.

Available in 50Te - 162Te specifications.



TTS-4/140 Series Tensioner

Nominal line pull*: 50Te

Line pull at 0.09 CoF: 51Te

Line pull at 0.07 CoF: 40Te

Nominal max squeeze*: 568Te

Track contact length: 4m

Product speed - installation: 900m/hr

Product speed - recovery: 900m/hr

Nominal product range: 50 - 600mm

Nominal track opening: 800mm

Product loading: Top



TTS-4/180 Series Tensioner

Nominal line pull*: 51Te

Line pull at 0.09 CoF: 51Te

Line pull at 0.07 CoF: 51Te

Nominal max squeeze*: 728Te

Track contact length: 4.074m

Product speed - installation: 900m/hr

Product speed - recovery: 900m/hr

Nominal product range: 50 - 600mm

Nominal track opening: 800mm

Product loading: Top

*Can be increased in line with project requirements



TTS-4/300 Series Tensioner

Nominal line pull*: 85Te
 Line pull at 0.09 CoF: 85Te
 Line pull at 0.07 CoF: 85Te
 Nominal max squeeze*: 1215Te
 Track contact length: 5.6m
 Product speed - installation: 900m/hr
 Product speed - recovery: 900m/hr
 Nominal product range: 50 - 600mm
 Nominal track opening: 900mm
 Product loading: Top



TTS-4/310 Series Tensioner

Nominal line pull*: 85Te
 Line pull at 0.09 CoF: 85Te
 Line pull at 0.07 CoF: 85Te
 Nominal max squeeze*: 1240Te
 Track contact length: 5m
 Product speed - installation: 800m/hr
 Product speed - recovery: 600m/hr
 Nominal product range: 50 - 650mm
 Nominal track opening: 1250mm
 Product loading: Top



TTS-4/310 Series Tensioner

Nominal line pull*: 110Te
 Line pull at 0.09 CoF: 110Te
 Line pull at 0.07 CoF: 87Te
 Nominal max squeeze*: 1240Te
 Track contact length: 5m
 Product speed - installation: 700m/hr
 Product speed - recovery: 500m/hr
 Nominal product range: 50 - 650mm
 Nominal track opening: 1250mm
 Product loading: Top





R



TTS-4/375 Series Tensioner

Nominal line pull*: 150Te

Line pull at 0.09 CoF: 135Te

Line pull at 0.07 CoF: 105Te

Nominal max squeeze*: 1500Te

Track contact length: 5.5m

Product speed - installation: 750m/hr

Product speed - recovery: 750m/hr

Nominal product range: 50 - 650mm

Nominal track opening: 1150mm

Product loading: Top

*Can be increased in line with project requirements

R



TTS-4/450 Series Tensioner

Nominal line pull*: 162Te

Line pull at 0.09 CoF: 162Te

Line pull at 0.07 CoF: 126Te

Nominal max squeeze*: 1800Te

Track contact length: 5m

Product speed - installation: 640m/hr

Product speed - recovery: 640m/hr

Nominal product range: 50 - 600mm

Nominal track opening: 800mm

Product loading: Top



2-TRACK TENSIONERS

The TTS-2 Series Tensioners are our top-loading and side-loading 2-track systems. The two track carriages are mounted in the main structural frame, connected to the mounting frame with load cell pins to provide accurate product load information at every step.

The tracks are fitted with 'V' shaped pads and operate by gripping the product between the opposing track carriages with hydraulic cylinders. The top track opens for loading or

unloading, to accept or release the product - and if the outside product diameter tapers, the system automatically readjusts, thanks to its pivoting track carriages.

For a more compact option, look for our top loading range, on which the top track rotates out of the firing line to provide a large area for accepting the product.

Available in 6Te - 150Te specifications.



TTS-2/35 Series Tensioner

Nominal line pull*: 6Te

Line pull at 0.09 CoF: 6.3Te

Line pull at 0.07 CoF: 4.9Te

Nominal max squeeze*: 70Te

Track contact length: 2.5m

Product speed - installation: 1500m/hr

Product speed - recovery: 1000m/hr

Nominal product range: 25 - 550mm

Nominal track opening: 600mm

Product loading: Side



TTS-2/70 Series Tensioner

Nominal line pull*: 12Te

Line pull at 0.09 CoF: 12.6Te

Line pull at 0.07 CoF: 9.8Te

Nominal max squeeze*: 140Te

Track contact length: 2.5m

Product speed - installation: 1000m/hr

Product speed - recovery: 500m/hr

Nominal product range: 25 - 550mm

Nominal track opening: 600mm

Product loading: Side

*Can be increased in line with project requirements



TTS-2/90 Series Tensioner

Nominal line pull*: 16Te
 Line pull at 0.09 CoF: 16.3Te
 Line pull at 0.07 CoF: 12.6Te
 Nominal max squeeze*: 182Te
 Track contact length: 3.35m
 Product speed - installation: 1500m/hr
 Product speed - recovery: 1200m/hr
 Nominal product range: 25 - 620mm
 Nominal track opening: Unlimited
 Product loading: Top



TTS-2/140 Series Tensioner

Nominal line pull*: 25Te
 Line pull at 0.09 CoF: 25.2Te
 Line pull at 0.07 CoF: 19.6Te
 Nominal max squeeze*: 280Te
 Track contact length: 3.35m
 Product speed - installation: 1200m/hr
 Product speed - recovery: 1000m/hr
 Nominal product range: 25 - 620mm
 Nominal track opening: Unlimited
 Product loading: Top





TTS-2/750 Series Tensioner

Nominal line pull*: 150Te

Line pull at 0.09 CoF: 135Te

Line pull at 0.07 CoF: 105Te

Nominal max squeeze*: 1500Te

Track contact length: 6.12m

Product speed - installation: 600m/hr

Product speed - recovery: 600m/hr

Nominal product range: 100 - 900mm

Nominal track opening: 900mm

Product loading: In-line

**Can be increased in line with project requirements*

HYBRID TENSIONERS

MDL hybrid tensioners combine electric drives with hydraulic squeeze.

Commonly known as the OBT, the Overbender Tensioner offers the functionality of a small horizontal lay system, while maintaining a compact footprint.

Equipped with one of our TTS-2 Series Tensioners on a ramp, the OBT can be used for overboarding, transpooling or guiding products between underdeck carousels and vertical lay systems.

The integrated system also consists of a fixed entry chute and a movable departure chute, as well as an integrated EPU/ HPU with an electric control panel within the base of the structure.

The tensioner's top track is mounted on kingpins so it can pivot to open or close as required by the operator through two hydraulic cylinders.



TTS-2/60 Series Tensioner

Nominal line pull*: 10Te

Line pull at 0.09 CoF: 10Te

Line pull at 0.07 CoF: 8.4Te

Nominal max squeeze*: 120Te

Track contact length: 2.52m

Product speed - installation: 1200m/hr

Product speed - recovery: 1000m/hr

Nominal product range: 50 - 620mm

Nominal track opening: Unlimited

Product loading: Top







Lay and Deployment Systems

With Maritime Developments' lay and deployment systems, flexibility is much more than just a pipelay term.

Just like the individual systems in the MDL range, our vertical and horizontal spreads are fully portable and can travel by road to any destination in the world.

The MDL PVLS stands as a prime example: ever since its maiden project in the North Sea, it became a game-changer in vertical flex lay.

Requiring only up to three days to assemble at the quayside, and less than 24 hours to install on board a vessel, the system has no equals when it comes to reducing mobilisation time - or increasing fleet utilisation by easily transferring the system between vessels and ports.

But this is not where we draw the line on flexibility on the back deck: we have taken our expertise from flex lay and put it into well intervention, in the form of the Product Deployment System.

PVLS

The Portable Vertical Lay System is the only truly road-transportable VLS on the market, which can travel in modules to meet the product reels at their home ports, before being reassembled at the quayside.

All the ancillary equipment is pre-installed on the system before being lifted on board, which allows for quick mobilisation and demobilisation once the project is complete. Product can be fed into the PVLS from different locations on or

under deck, thanks to the movable top chute, that can also be adjusted to varying product diameters.

The result is a self-contained and compact Plug & Play solution, modifiable to suit varying line-pull requirements, operational weather windows and types of product handled during every individual campaign.

Available in 50Te - 150Te specifications, which can be delivered as scalable units.



75Te PVLS

Lay spread type: Portable Vertical Lay System

Product type: Flexibles

Nominal line pull: 75Te

Nominal product range: 50 - 650mm

Max hang-off tension: 80Te

Top chute radius: 4m



150Te PVLS

Lay spread type: Portable Vertical Lay System

Product type: Flexibles

Nominal line pull: 150Te

Nominal product range: 50 - 650mm

Max hang-off tension: 160Te

Top chute radius: 5m



150Te Dual-tensioner PVLS

Lay spread type: Portable Vertical Lay System

Product type: Flexibles

Nominal line pull: 150Te

Nominal product range: 50 - 650mm

Max hang-off tension: 165Te

Top chute radius: 5m



150Te PVL R

Lay spread type: Portable Vertical Lay Ramp

Product type: Rigid or Flexibles

Nominal line pull: 150Te

Nominal product range: 50 - 650mm

Max hang-off tension: 165Te

Top chute radius: 5m



HORIZONTAL LAY SYSTEMS

For a mighty spread in a compact package you need look no further than an MDL Horizontal Lay System.

With a range of integrated features and project-specific ancillaries built within the footprint, the MDL HLS is a time-saving solution for safe and efficient deployment of long lengths of flexible and rigid pipe.

Thanks to the hydraulically operated moonpool doors and hang off beam, with optional pivoting davit arms, the systems effortlessly handle mid-line

connections and buoyancy modules. The systems integrate with the complete range of MDL tensioners, to suit varying line-pull requirements and wide variety of products handled during a campaign.

Like the rest of MDL fully portable fleet, the HLS units are road-transportable, and can travel in modules to meet the products at their home ports, before being reassembled on the quayside.

All the ancillary equipment is pre-installed before the system is lifted onboard, and the HLS can be mounted either over the moonpool, the stern or either side of the vessel, offering efficient mobilisation and demobilisation.



HLS 100

Lay spread type: Portable Horizontal Lay System

Nominal line pull: 75Te

Nominal product range: 50 - 650mm

Max hang-off tension: 75Te

Outboard chute radius: 5.2m



HLS 200

Lay spread type: Portable Horizontal Lay System

Nominal line pull: 60Te

Nominal product range: 50 - 600mm

Max hang-off tension: 60Te

Outboard chute radius: 4.2m



HLS 300

Lay spread type: Portable Horizontal Lay System

Nominal line pull: 100Te

Nominal product range: 50 - 650mm

Max hang-off tension: 100Te

Outboard chute radius: 5.2m



Wheeled HLS

Lay spread type: Portable Horizontal Lay System

Nominal line pull: 100Te

Nominal product range: 90 - 400mm

Max hang-off tension: 100Te

Outboard chute radius: 3.5m



PRODUCT DEPLOYMENT SYSTEM

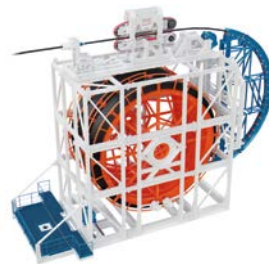
Innovation in light well intervention gains a new name – with the arrival of the PDS.

The integrated deployment package presents a unique solution capable of significantly reducing light well intervention costs.

Consisting of an integrated reeler and 2-track tensioner, the compact package can operate either as a vertical or horizontal system, depending

on the product's location at port during vessel loading, and on deck during deployment or retrieval.

Among its unique handling features, the retractable work platform allows for operations over the moon-pool or the side of the vessel, while a set of initiation winches supports loading of the product and handling pipe-end terminations and mid-water connections.



4.1 MBR Product Deployment System

Spread type: Vertical or horizontal system

Tensioner operational mode: 2 track mode

Track contact length: 2.42m

Work platform deck area: 20m²

Work platform deck capacity: 1Te/m²

Work platform opening: 1.5m

Reel diameter: 9.3m

Maximum pipe length: 3,200m (3inch composite)

Maximum grip: 99Te/track

Maximum squeeze: 40.6Tem/track

Product speed: Variable to 1200m/hr (at 60Hz supply)

Note: Technical specifications for 3inch pipe system; other systems available.







Reel Drive Systems

With Maritime Developments' RDS, handling multiple reels becomes a seamless operation, delivering greater returns on shorter mission times.

Designed with reduced mobilisation in mind, all of MDL reel drive systems are road-transportable, allowing re-assembly at the quayside before being lifted onboard the vessel. In fact, our third-generation system cuts the port times further by reducing

sea-fastening to a minimum, thanks to the powerpack built into the RDS tower and the track system with integrated reel cradles.

Automatic fail-safe clamps and an automated raising and lowering system, which negates working at height, are the other key features of MDL RDS, delivering an average saving of four hours per reel.

REEL DRIVE SYSTEMS

Ranging between 150-tonne and 800-tonne specifications, the MDL RDS can handle all flexible product reels, including varying reel sizes on a single campaign.

The fully automated hubs are equipped with fail-safe closed brakes, securing the reels during pick up and abandonment and eliminating working at heights. The towers, in turn, securely move up and down the tracks using fail-safe closed walking clamps – also automated to reduce downtime when moving between reels.



150Te Reel Drive System

Design Generation: Generation 1

SWL (Max reel weight with 20% offset): 150Te

Max reel weight per tower: 75Te

Max reel weight loaded: 150Te

Reel diameters*: 2.5 - 6m

Max reel diameter c/w packers: 9.2m

Max torque capacity: 80Te/m

Max speed low torque: 2 rev/min

Max speed high torque: 1 rev/min



300Te Reel Drive System

Design Generation: Generation 1

SWL: 300Te

Max reel weight per tower: 150Te

Max reel weight loaded: 300Te

Reel diameters*: 2.5 - 6m

Max reel diameter c/w packers: 9.2m

Max torque capacity: 80Te/m

Max speed low torque: 2 rev/min

Max speed high torque: 1 rev/min



350Te Reel Drive System

Design Generation: Generation 3

SWL (Max reel weight with 20% offset): 350Te

Max reel weight per tower: 210Te

Max reel weight loaded: 420Te

Reel diameters*: 8.6 - 12m

Max reel diameter c/w packers: 14m

Max torque capacity: 75Te/m

Max speed low torque: 1.2 rev/min

Max speed high torque: 0.6 rev/min

* can be increased in line with project requirements



400Te Reel Drive System

Design Generation: Generation 2

SWL (Max reel weight with 20% offset):
400Te

Max reel weight per tower: 240Te

Max reel weight loaded: 480Te

Reel diameters*: 8.6 - 11.4m

Max reel diameter c/w packers: 12m

Max torque capacity: 150Te/m

Max speed low torque: 1.2 rev/min

Max speed high torque: 0.6 rev/min



500Te Reel Drive System

Design Generation: Generation 2

SWL (Max reel weight with 20% offset):
500Te

Max reel weight per tower: 300Te

Max reel weight loaded: 600Te

Reel diameters*: 8.6 - 12.5m

Max reel diameter c/w packers: 14m

Max torque capacity: 150Te/m

Max speed low torque: 1.2 rev/min

Max speed high torque: 0.6 rev/min



800Te Reel Drive System

Design Generation: Generation 3

SWL (Max reel weight with 20% offset):
800Te

Max reel weight per tower: 480Te

Max reel weight loaded: 960Te

Reel diameters*: 8.6 - 12m

Max reel diameter c/w packers: 14m

Max torque capacity: 170Te/m

Max speed low torque: 1.2 rev/min

Max speed high torque: 0.6 rev/min

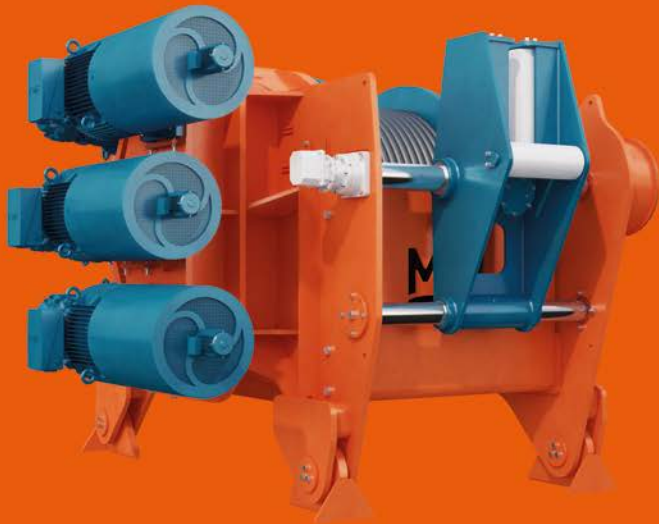




A large industrial crane, specifically a Maritime Developments SWL 30 Te, is the central focus of the image. The crane is a heavy-duty machine with a grey main body and yellow accents. A thick, coiled black cable is visible at the top. The crane is situated on a wet, reflective surface, likely a ship's deck, with various maritime equipment and structures in the background. The text 'MARITIME DEVELOPMENTS' is prominently displayed in black on the grey body, with a wavy line underneath it. Below the line, 'SWL 30 Te' is written in white. Safety labels, including 'CAUTION MOVING MACHINERY', are visible on the machine.

MARITIME
DEVELOPMENTS

SWL 30 Te



Deck Winches

Nothing speaks of the marine environment like a deck winch – and with our origins in the fishing industry, we know these systems inside out.

It's our extensive expertise of working with this demanding sector that taught us the benefits of intuitive controls and improved handling of deck machinery, which led to the creation of the MDL

electric department – and an order for 40 electrically-driven winches for operations offshore Brazil that followed.

All of MDL deck winches are offshore-rated, Lloyds approved, and can be supplied with electric or hydraulic drives depending on individual requirements.

SINGLE OR MULTIPLE DRIVE WINCHES

Representative of the Maritime Developments' back-deck range, the MDL Deck Winches are all about versatility.

Ranging from 5-tonne line pull upwards, the systems can be configured as under spooled or over spooled or to be supplied with no spooling gear.

To reduce footprint, the motor gearbox can be reconfigured to suit vessel layout.

Depending on the desired application, the winches can be supplied in either single or multiple drive specification.

Larger or smaller winches can be provided with variations on drum capacities for short rope lengths.



5Te Winch

Nominal pull: 5Te

Design line pull with a 1.3 DAF: 6.5Te

Speed at the hub: 900m/hr (15m/min)

Rope diameter (34LR): 17mm

Number of wire layers: 5

Capacity: 200m (17mm diameter wire)

Winch type: Over spooled



10Te Winch

Nominal pull: 10Te

Design line pull with 1.3 DAF: 13Te

Speed at the hub: 900 m/hr (15m/min)

Rope diameter (34LR): 25mm

Number of wire layers: 4

Capacity: 200m (25mm diameter wire)

Winch type: Over spooled or under spooled



30Te Winch

Nominal Pull: 30Te

Design line pull with 1.3 DAF: 39Te

Speed at the hub: 900 m/hr (15m/min)

Rope diameter (34LR): 42mm

Number of wire layers: 5

Capacity: 350m (42mm diameter wire)

Winch type: Over spooled or under spooled



40Te Winch

Nominal pull: 40Te

Design line pull with 1.3 DAF: 52Te

Speed at the hub: 900m/hr (15m/min)

Rope diameter (34LR): 46mm

Number of wire layers: 5

Capacity: 350m (46mm diameter wire)

Winch type: Over spooled or under spooled



48Te Winch

Nominal pull: 48Te

Design line pull with 1.3 DAF: 58Te

Speed at the hub: 900m/hr (15m/min)

Rope diameter (34LR): 46mm

Number of wire layers: 5

Capacity: 350m (46mm wire)

Winch type: Over spooled or under spooled





MDL

MDL-TTS2-140-01
GROSS 16500KG



Ancillary Products

The devil's in the detail, and we've been in the business long enough to know ancillaries are much more than just an add-on.

Whether you are after a complete equipment package or just a set of spares, no job is too big or too small for our team - just tell us the paint colour, and we'll do the rest.

DECK RADIUS CONTROL

Maritime Developments' deck radius controllers are on standby to smooth out any flex-lay operation.

Ranging from modifiable horizontal and vertical deck deflectors to bespoke chutes and compensators, MDL's portfolio caters for all types of offshore and onshore pipelay, helping maintain correct minimum bend radii and pressure during handling.

R



Overboarding Chutes

Radius: 2.8m - 5.5m

Tension capacity: up to 75Te

Road-transportable and supplied with dedicated rigging.

The chute can be provided with a pivoting system to allow retracting for transit periods.

R



Horizontal/Vertical Deck Deflectors

Radius of unit: 4.5m

Tension capacity: 10Te

The individual 45-degree units can form a 360-degree radius.

MDL also offers deflectors with skidding capability allowing hydraulic retraction.

R



Adjustable Deflector

Radius: 3.75m

Tension capacity: up to 25Te

Hydraulic cylinders stroke: 3.25m

Cylinder extend/retract time: 2.5min

R



Compensating Sheave

Bending radius: 1.2m

Compensated tension: 20Te - 35Te
offshore (80Te onshore and within sheltered water)

Product diameters: 70 - 120mm



Lower Chute

Bending radius: 3.0m

Tension capacity: 5Te

Product diameters: 100 - 600mm



Deck Radius Controller

Bending radius: 5.4m

Tension capacity: 24Te (extreme 35Te)

Product diameters: 50 - 600mm



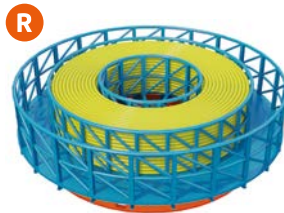


Hang-off Platform

Load capacity: 0.5Te/m²

Max hang-off tension: 75Te

Davit arms: 2Te (each)



Modular Carousel

Diameter: 14.5m

Core diameter: 5m

Max product weight: 950Te

Max lay speed: 500m/hr

Max deck capacity: 9.68Te/m²



Reels

Diameters: 8.5 - 12.5m

SWL: Up to 450Te

R



Traction Winch

Drum radius: 1.2m

Max line tension: 80Te

Max side loading: 3Te

Product diameter: 70 - 120mm*

Max speed: 1000m/hr

*Boltable drum shells available to accommodate other diameters / drum radius / MBR

R



Level Winder

Bending radius: 1.2m

Max side loading: 3Te

Product diameters: 0-120mm (larger product diameters can be accommodated)

Max travel/spooling width: 5m

Max fleeting angle: +/- 20° each side

R



Pipe Straightener

Product diameters: 50 - 250mm

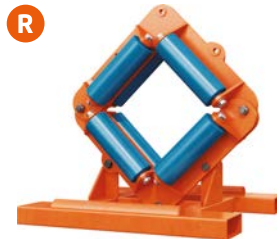
Max straightening force: 200kN





Spreader Beams

Capacity: Various up to 250Te SWL
Widths: 2 - 6.5m lift centres



Roller Boxes

Product diameters: Various
Tension capacity: 5Te



Equipment Boxes

Diameters: Various
Weight capacity: Up to 4Te
Fully certified with lift rigging

TURNTABLES

Some transpooling and installation operations require just a simple solution - that is where the Maritime Developments' turntable steps in.

Portable and compact, the solution can deploy umbilicals and flying leads off manufacturers' baskets as standard, and can also be supplied with alternative adapters for pallets from other providers.

Powered by a dedicated HPU with quick disconnect hoses, and featuring built-in storage for spares and tools, the device is ready to go whenever you are - a single solution for numerous applications.



Flying Lead Turntable

Diameters: 2 - 6m

Payload options: 4Te - 30Te

Max torque: 8.1Tem

Max speed: 2.5rpm

HPU, EPU & CONTROLS

Fully integrated hydraulic or electric power units and bespoke user interface on Maritime Developments' HPUs, EPUs and controls ensure all operations take place within the preset safe-to-work parameters.

That's putting the operator in the control seat, with all the assistance of auto-pilot features available at their fingertips.



HPU-35 Powerpack

Motor: Single 35kW (Star Delta contacts)

Pumps: Maximum delivery 75litres/min

Cooling: Air blast cooling (standard)

Oil reservoir: 400 litre with return filters

Manifold connections: Quick disconnect couplings

Services required: 3 phase, 440V, 60Hz, 63 amp supply, 50Hz supply can also be used



HPU-100 Powerpack

Motor: Single 132kW (Star Delta contacts)

Pumps: Maximum delivery 300litres/min

Cooling: Air blast cooling (standard)

Oil reservoir: 1200 litre with return filters

Manifold connections: Quick disconnect couplings

Built-in containment area for the HPU in the event of fluid release

Services required: 3 phase, 440V, 60Hz, 250 amp supply, 50Hz supply can also be used



HPU-200 Powerpack

Motor: Dual 132kW (Star Delta contacts)

Pumps: Maximum delivery 500litres/min

Cooling: Air blast cooling (standard)

Oil reservoir: 2000 litre with return filters

Manifold connections: Quick disconnect couplings

Built-in containment area for the HPU in the event of fluid release

Services required: 3 phase, 440V, 60Hz, 400 amp supply, 50Hz supply can also be used

Dual redundancy: 2 motors/pumps





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