

|  | HAULING-IN<br>TONS @<br>M/MIN | PAY-OUT<br>TONS @<br>M/MIN | SLACK ROPE<br>M/MIN | HYDRAULIC/<br>ELECTRIC | BRAKE<br>TONS | MOORING<br>HEAD | SPOOLING<br>GEAR |
|--|-------------------------------|----------------------------|---------------------|------------------------|---------------|-----------------|------------------|
| <b>ESCORT WINCHES</b><br><u>OPEN SEA</u> |                               |                            |                     |                        |               |                 |                  |
| RRW-H-30-200 DD                          | 30/44                         | 112/82                     | 44                  | H                      | 200           |                 |                  |
| <u>NON EXPOSED</u>                       |                               |                            |                     |                        |               |                 |                  |
| TW-H-27,5-200 DD                         | 27,5/49                       |                            | 49                  | H                      | 200           |                 |                  |
| TW-H-30-200 DD or SD                     | 30/12                         |                            | 40                  | H                      | 200           |                 |                  |
| TW-H-30-175 DD or SD                     | 30/12                         |                            | 40                  | H                      | 175           | X               |                  |
| TW-H-30-150 DD or SD                     | 30/12                         |                            | 40                  | H                      | 150           | X               |                  |
| <b>AFT TOWING WINCHES</b>                |                               |                            |                     |                        |               |                 |                  |
| TW-H-30-200 DD or SID                    | 30/12                         |                            | 40                  | H                      | 200           |                 | X                |
| TW-H-50-200 DD                           | 50/8                          |                            | 25                  | H                      | 200           |                 | X                |
| <b>ANCHOR WINCHES</b>                    |                               |                            |                     |                        |               |                 |                  |
| ACW-E-17.5DAM-U2-2                       | acc. class                    | Chain mm<br>17.5           |                     | E                      | acc. class    | X               |                  |
| ACW-E 19DAM-U2-2                         | acc. class                    | 19                         |                     | E                      | acc. class    | X               |                  |
| AW-E-19DAM-U2-1                          | acc. class                    | 19                         |                     | E                      | acc. class    |                 |                  |
| ACW-E-22DAM-U2-1                         | acc. class                    | 22                         |                     | E                      | acc. class    | X               |                  |
| AW-E-22DAM-U2-1                          | acc. class                    | 22                         |                     | E                      | acc. class    |                 |                  |
| <b>TUGGER WINCHES</b>                    |                               |                            |                     |                        |               |                 |                  |
|  | Pull tons                     |                            |                     |                        |               |                 |                  |
| TUW-H(E)-5-10 SID                        | 5                             |                            | 15                  | H/E                    | 10            |                 |                  |
| TUW-H(E)-10-15 SID                       | 10                            |                            | 15                  | H/E                    | 15            |                 |                  |
| TUW-H(E)-20-30 SID                       | 22                            |                            | 15                  | H/E                    | 30            |                 |                  |
| TUW-H(E)-30-45 SID                       | 30                            |                            | 15                  | H/E                    | 45            |                 |                  |
| TUW-H(E)-40-65 SID                       | 40                            |                            | 15                  | H/E                    | 65            |                 |                  |
| <b>CAPSTANS</b>                          |                               |                            |                     |                        |               |                 |                  |
|  | Pull tons                     |                            |                     |                        |               |                 |                  |
| CAS-H(E)-5                               | 5                             |                            | 15                  | H/E                    | 5             | X               |                  |
| CAS-H(E)-10                              | 10                            |                            | 15                  | H/E                    | 10            | X               |                  |

DD = Double Drum Execution  
SD = Split Drum Execution  
SID = Single Drum Execution



WINCHES

DAMEN

DAMEN MARINE COMPONENTS

DAMEN WINCH TECHNOLOGY B.V.

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PULLING WINCHES TO THE NEXT LEVEL

DAMEN

DAMEN MARINE COMPONENTS





### DMC WINCHES OFFER

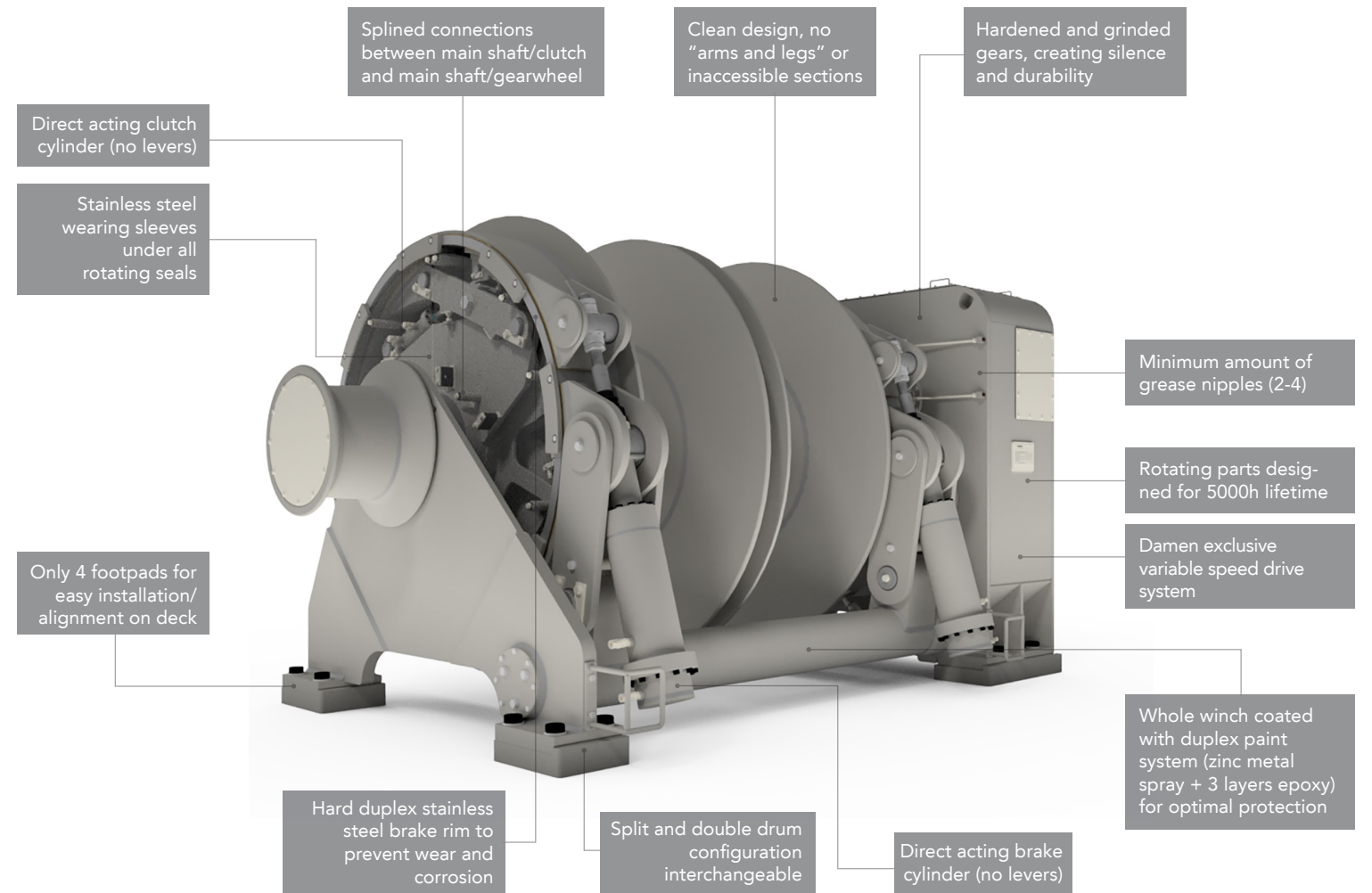
A fully covering range of standard winch designs, using standardized modules and parts in several winch types. Proven quality and completely load tested. Through our series production, we offer the best price with a fast delivery. Rely on a specialist small business attitude from DMC, combined with the best service and guarantee according to Damen standards.

### DAMEN WINCH STRATEGY

- Standardise all winch designs with modules and parts at market price but with superior quality.
- Implement worldwide winch service.
- Improve efficiency, delivery time and price by selling high numbers of winches worldwide.
- Improve user possibilities by introducing thoroughly tested step change innovations.

### DMC & DWT

Since 2012, Damen Marine Components (DMC) has produced and delivered many (escort) winches. Damen Winch Technology (DWT) was founded in 2015 to design and standardize the winches. DMC has their own production and winch test facilities (up to 300 t).



DMC ESCORT WINCH ON SVITZER ASD 3212 TUG



### DMC ESCORT WINCH SPECIFICATION

\* Open sea area escort class notation

|                        |                   |
|------------------------|-------------------|
| Haul in force          | 30t @ 44m/min     |
| Pay-out force          | 112t @ 82m/min    |
| Brake holding force    | 200t              |
| Number of drums        | 2                 |
| Tow line length        | 2 x 200m          |
| Tow line specification | Ø 60mm Dyneema    |
| Number of motors       | 2                 |
| Motor type             | High torque motor |
| Brakes                 | Hydr. released    |
| Clutches               | Hydr. released    |



### QUALITY, CERTIFICATION & TESTING

All winches are approved by class and tested above pull and brake holding load in the DMC factories in attendance of class society. This minimizes all uncertainties or time loss during installation, commissioning and (sea) trials.

### DMC ESCORT WINCH: THE ONLY AVAILABLE ESCORT WINCH WITHOUT THE NEED FOR BRAKES

The hydraulic DMC escort winch is the only available winch in the market that entirely complies with class requirements for open sea escort operations with the use of an active pay-out and haul-in system (instead of using the brakes).

This winch can hold and veer the motor from zero to full speed at a variable line force setting 10 to 100 T on the motor. The reference deliveries of this winch type conforms the rigidity of this concept in heavy duty use.

The DMC escort range has four types to serve all requirements. Starting from "escort service limited to non-exposed waters" up to "open sea" escort operations in high waves.

### DAMEN VARIABLE SPEED WINCH DRIVE

The latest winch innovation of Damen is a variable speed drive. This makes it possible to always haul and veer with the highest line speed available. The speed of the drive system automatically adjusts itself in proportion to the required line force (for both hauling and veering).

**RELIABLE POWER**  
"NO" MAINTENANCE IS IN THE DETAILS

