

# ISO 4861:2023-05 (E)

## Ships and marine technology - Piling barge winches

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Types .....</b>	<b>2</b>
<b>5</b>	<b>Design and operation .....</b>	<b>3</b>
5.1	General requirements .....	3
5.2	Material stress .....	3
5.3	Strength requirements .....	4
5.3.1	Rated load .....	4
5.3.2	Brake load .....	4
5.4	Operating device .....	4
5.5	Brake device .....	4
5.5.1	Automatic braking device .....	4
5.5.2	Drum braking device .....	4
5.6	Drum design .....	4
5.6.1	Design reference steel wire ropes .....	4
5.6.2	Drum diameter .....	5
5.6.3	Drum capacity .....	5
5.6.4	Drum length .....	5
5.6.5	Drum flange height .....	5
5.6.6	Drum clutch .....	5
5.7	Auxiliary device .....	5
5.7.1	Rope guide .....	5
5.7.2	Ratchet mechanism .....	5
5.7.3	Vertical stroke limiter .....	6
5.7.4	Operating device for paying out cables .....	6
5.8	Drive device .....	6
<b>6</b>	<b>Performance .....</b>	<b>6</b>
6.1	Specifications and performance .....	6
6.2	Light load speed .....	6
6.3	Expansion clutch load .....	7
<b>7</b>	<b>Acceptance test .....</b>	<b>7</b>
7.1	General .....	7
7.2	Expansion clutch load test .....	7
7.3	Rated load test .....	7
7.4	Brake load test .....	7
7.5	Check items .....	7
<b>8</b>	<b>Designation .....</b>	<b>7</b>
8.1	Model designation .....	7
8.2	Examples .....	8
<b>9</b>	<b>Marking .....</b>	<b>8</b>