

# DIN EN ISO 20321:2020-07 (Englisch)

## Petroleum, petrochemical and natural gas industries - Safety of machineries - Powered elevators (ISO 20321:2020)

---

<b>Contents</b>		<b>Page</b>
<b>6</b>	<b>Functions for preparing the elevator for a safe lift -- Wrapping, securing, locking and verification .....</b>	<b>16</b>
6.1	General .....	16
6.2	Black box approach .....	17
6.3	Wrapping .....	17
6.4	Securing .....	18
6.5	Locking .....	19
6.6	Verification of readiness for safe lift .....	19
<b>7</b>	<b>Closed-ring powered elevator .....</b>	<b>20</b>
7.1	Wrapping .....	20
7.2	Securing and locking .....	20
7.3	Verification .....	20
<b>8</b>	<b>Instructions for use .....</b>	<b>20</b>
8.1	General .....	20
8.2	Instruction handbook .....	20
<b>9</b>	<b>Marking of powered elevators .....</b>	<b>23</b>
<b>Annex A (informative) Relation between the clauses of European Directive on machinery (Directive 2006/42/EC) and this document .....</b>		<b>25</b>
<b>Annex B (normative) Verification tests for powered elevators .....</b>		<b>29</b>
<b>B.1</b>	<b>Design verification .....</b>	<b>29</b>
B.1.1	Design verification test .....	29
B.1.2	Life cycle test .....	29
B.1.3	Design function testing .....	29
B.1.4	Verification of the safety requirements and/or measures .....	29
B.2	Product verification .....	29
<b>Bibliography .....</b>		<b>31</b>