

New rope install checklist

Use one for every new or replacement rope. Follow the crane and rope manufacturers' instructions and the standard; where they differ, ask a qualified person (CRS practice). "Standard says": shall = required, should = recommended, do = direct instruction (no shall or should), record = write it down.

Crane make and model	Serial / unit number	Winch number	Winch duty	Date installed
Installed by (person / company)	Crane hours	Certificate no.	Rope maker / supplier	Nominal diameter d (mm)
Length (m / ft)	Construction	Core	Lay (type and direction)	Grade / finish
OEM specified breaking force (crane manual)	Minimum breaking force (mill cert)			

Check	Standard says	Clause	✓ / X / N/A	Notes
Rope and documents				
Replacement matches the original (diameter, length, construction, grade, finish, MBL) or as recommended by the crane maker or another qualified source (pendants: crane or rope maker); no rotation-resistant rope on a boom hoist	should	F.4.3		
Different type or grade: all load charts reviewed and altered as appropriate by the original crane maker, an API 2C-licensed crane maker, an authorized surveyor, or an engineer experienced in crane wire rope, as the owner decides (write who)	should	F.4.3 d)		
Rope maker's break test certificate supplied to the crane owner: no. _____	shall	6.2.6		
Pendants: each leg proof loaded and the certificate supplied (shall); label shows maker, WLL, cert no., length, Ø, test date (should)	shall	6.2.7		
Handling and reeving				
Stored and handled to prevent damage; unreeled without kinks or twists	should	6.2.4.2, 6.2.4.3		
Installed as the crane or rope maker recommends; reel top to drum top (or bottom to bottom); brake on the reel, or a spooling device	should	6.2.4.4, F.6.1, F.6.2		
Spooled under tension as the rope maker recommends, to seat the rope on the drum (do); particular care with the first layer (shall)	shall	F.6.3		
Reeved for the crane configuration in use	shall	F.6.4		
Avoid kinks or looping while reeving through the sheaves	do	F.6.5		
Not contaminated, scraped or nicked	should	6.2.4.6		
Both sides seized before cutting	shall	6.2.4.5		
Terminations				
Termination done or supervised by a QO or QI	should	6.2.4.7		
Wedge socket to F.7: correct size, pin keeper fitted, live end on the straight side	shall	6.2.4.9, F.7		
Wedge socket tail per Figure F.8 (6 d boom suspension, 20 d rotation-resistant hoist, min 6 in.)	should	F.7 d)		
First load applied gradually to seat the wedge; no shock loads	should	F.7 e)		
Clips: drop-forged steel (no malleable cast iron), U-bolt on the dead end, tightened evenly to the recommended torque, nuts retightened after the first load	shall	6.2.4.8		
Swivel: none at the dead end of a multi-part RR hoist (unless recommended); fitted at the dead end of a single-part system	shall	F.6.7, F.6.8		
Sheaves and drum				
Sheaves checked at the rope change: worn-groove gauge, corrugation, flange, hub, drag, bearings, rope path	should	6.2.2.4, F.3		
At least 5 full wraps on the drum in any operating condition	should	4.2.3.7		
Break-in and records				
Installed and broken in as the manufacturer recommends	shall	F.6.9		
Initial measurements in the crane file: baseline diameter (non-working area, F.4.2 g)) _____ mm; lay length _____ mm (CRS practice) (copy to the inspection sheet)	should	6.2.1, F.6.9, F.4.2 g)		
Lubrication record: who, when, type, amount, method; no used oil	should	6.1.2, 6.2.4.10		

Check the owner's wire rope policy for any load test after a rope change (CRS practice). Then start a new inspection sheet for this rope.

Date	Checked by (name and signature)	Crane hours	Logbook / file entry made (where)
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