

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
Before fitting				
Rope and certificate checked against the order, preferably on arrival	should	4.4		
Rope is the length, diameter, construction, type, lay direction and MBF the crane maker specifies (alternative approved? write who)	shall	4.2		
MBF not lower than the crane maker's figure	shall	4.4		
New rope diameter measured on a straight length with no tension: dm = _____ mm	shall	4.4		
Reels or coils not dropped or struck; rope in storage checked periodically for signs of deterioration such as surface corrosion	shall	4.3		
Sheaves and drum, before the new rope goes on				
Every sheave and drum groove can accept the size of the new rope, no corrugations, enough wall left to support it	do	4.4		
Sheave groove 5% to 10% over nominal d, and at least 1% over the new rope's actual diameter	should	4.4		
Drums and sheaves turn freely in their bearings	shall	4.8		
Cutting, unreeling and terminations				
Serving (seizing) on both sides of any cut (shall); single-layer rope: the Figure 2 example shows each at least 2d long (should)	shall	4.2		
Every precaution taken to avoid putting turn into or out of the rope; never paid out by throwing off wraps from a coil or reel flat on the ground, or by rolling the reel along the ground	shall	4.5		
Paid out straight with little slack, reel well away from the crane, rope run on matting, bend kept in the same direction	should / do	4.5		
Multi-layer drum: back-tension about 2.5% to 5% of MBF: _____ to _____ kN	do	4.5		
Termination of the type the crane maker specifies (or an approved alternative)	shall	4.2		
Rope ends secured at the drum and anchorages as the crane maker instructs	do	4.5		
Run-in and records				
All hoisting limiting and indicating devices working correctly before full use	do	4.6		
Run in at reduced speed and load (down to 10% of WLL) for a number of cycles: cycles _____ load _____	should	4.6		
Any damage before run-in assessed by the competent person and recorded	shall	5.3.1		
Breaks from shipping, storage, installation or manufacture recorded (should), not normally counted, but taken into account by the competent person (shall); protruding ones that might lead to localized deterioration removed (shall)	shall / should	6.2.3, 4.7		
dref measured right after run-in, on a section that does not bend: _____ mm (copy to the inspection sheet)	record	3.3		
MRT base trace taken, if MRT will be used	should	5.6		
Record of the rope change placed on file	shall	4.2		

Follow the crane or rope maker's instructions for running in (4.1). 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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