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# **Introduction to Dorman Long Technology**

Technology for modular construction

November 2018

# DLT services

- Heavy lifting & load movement systems:
  - Bridge deck erection gantries
  - Heavy duty transporters
  - Heavy duty straddle carriers
  - Jacking towers for refinery/roof/crane construction
  - Strand jack systems
  - Climbing jack & gripper jack systems
  - Skidding systems
  - Synchronised jacking & weighing systems
  - Heavy lift control systems
  - Hydraulic gantries

# DLT services

- Heavy lifting site services
  - Site supervision
  - Site training for operation and maintenance
  - Independent site audits
- Construction consultancy services
  - Heavy lifting operations
  - Bridge erection gantries
  - Temporary works
  - Permanent works re-design
  - Independent audits

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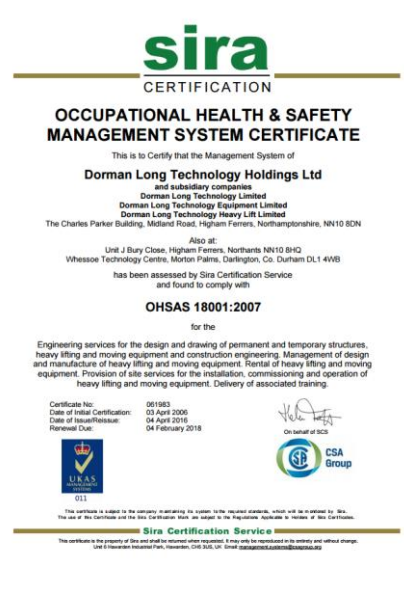


# For the construction & maintenance of ....

- Major bridges
- Offshore platforms
- Offshore vessels
- Large roofs
- Dams
- Power plants
- Renewable energy structures

# Certification :

- ISO 9001 : 2015
- OHSAS 18001 : 2007
- ISO 14001 : 2004





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# Heavy lifting and load movement systems



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## Bridge deck erection gantries





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Heavy duty transporters





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**Straddle carriers**





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## Jacking tower systems









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**Weighing systems, up to 2000 MT per jack**



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Hydraulic gantries, 200 – 1200 te





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Strand jacks, 15 te – 1672 te





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**Pinned climbing & skidding jacks 50 – 1000 te**





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Hydraulic rams, 50 – 3000 te







DL-P40 - Strand Jack Mode - 40 x DL-S185\_160t per jack

System View Help

Manual Mode

Manual

TOP

Open Top

Close Top

Synchro Extend

Synchro Retract

Open Base

Close Base

Bleed Lower

BASE

Reset Lift Totals

START

11 May 2009 16:44:54

Operating Mode

Select All

Select None

Auto Lift

Auto Lower

Manual

Setup

Calibrate Stroke

Set Load...

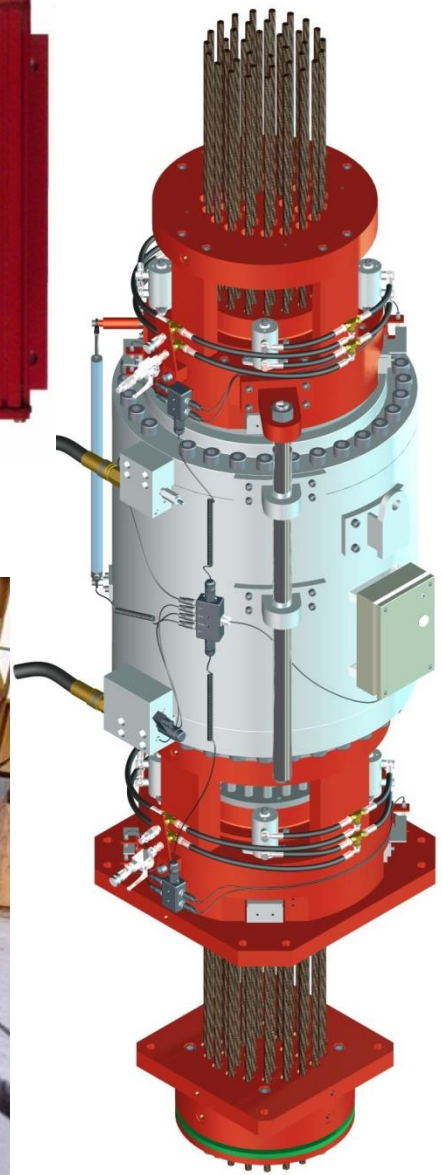
Settings...

Jack Details

Jack Name: J100	Stroke(mm): 500.0	SWL(MT): 579.9	20 mA pressure(Bar): 400.0
Jack CAN I.D.: 100	Top dead Zone: 20.0	SWL pressure(bar): 300.0	Zero Pressure(mA): 4.0
Jack Serial No: 001	Bottom dead Zone: 20.0	Area ratio: 2.000	Son full extended(mm): 2610.0
Jack Type: S111	Extend overrun(mm): 10.0	Retract overrun(mm): 10.0	Son full retracted(mm): 58.0

Manual Mode Control Panel Data:

Jack ID	Load (MT)	Monitor (MT)	Stroke (mm)	Lift (mm)
Total	6523	6400		
J100	163	163	163	163
J101	160	160	160	160
J102	320	320	319	317
J103	317	322	318	321
J104	320	319	317	322
J105	318	318	315	315
J106	312	317	313	315
J107	315	312	311	316
J108	316	313	316	313
J109	312	312	310	312
J110	312	312	310	312
J111	310	312	312	310
J112	312	312	310	312
J113	312	312	310	312
J114	312	312	310	312
J115	312	312	310	312
J116	312	312	310	312
J117	312	312	310	312
J118	312	312	310	312
J119	312	312	310	312
J120	163	163	163	163
J121	160	160	160	160
J122	160	160	160	160
J123	160	160	160	160
J124	160	160	160	160
J125	160	160	160	160
J126	160	160	160	160
J127	163	163	163	163
J128	320	320	320	322
J129	318	319	318	319
J130	312	317	313	314
J131	312	313	314	312
J132	312	313	314	312
J133	312	313	314	312
J134	312	313	314	312
J135	312	313	314	312
J136	312	313	314	312
J137	312	313	314	312
J138	312	313	314	312
J139	163	163	163	163







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# Reference Projects

for detailed information on each project visit  
[www.dormanlongtechnology.com](http://www.dormanlongtechnology.com)







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**Doha Link gantry, 60m 1700 te, Kuwait**





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**DL-SE500/30 gantry, Riyadh Metro, KSA**





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**DL-SE1000/35 gantry, Honam HSR, Korea**





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## Forth cable stayed bridge deck gantries, UK









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Sutong bridge deck erection gantries, China



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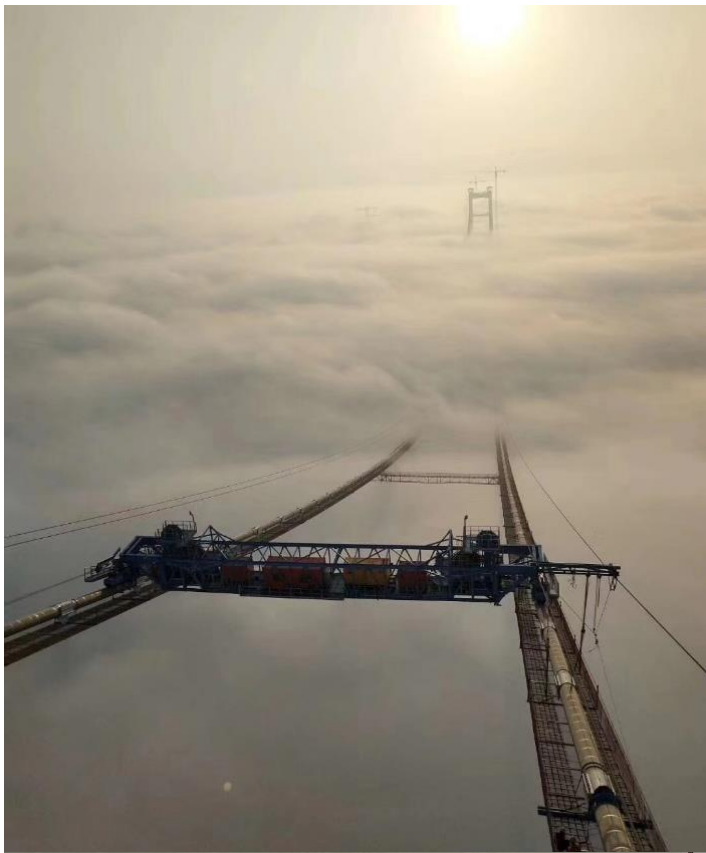
## Orinoco river second crossing, Venezuela





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**CLKTM viaduct segment gantry, Hong Kong**



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Humen 2nd Bridge, China





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Runyang Suspension bridge, China





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## Carquinez Suspension Bridge, San Francisco





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5,000 te bridge launch, UK

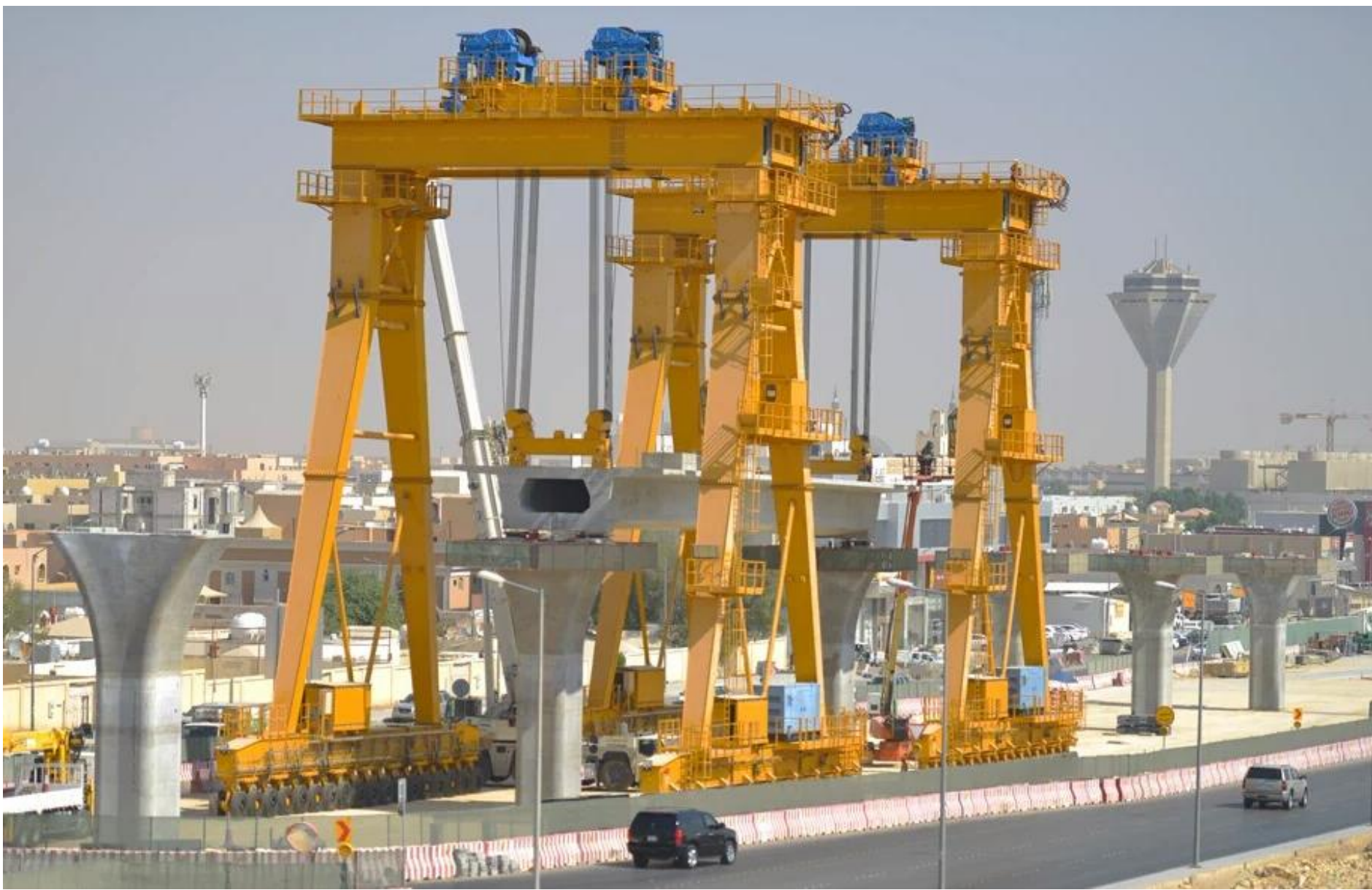




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**Doha Link straddle carrier, 2 x 850 te, Kuwait**

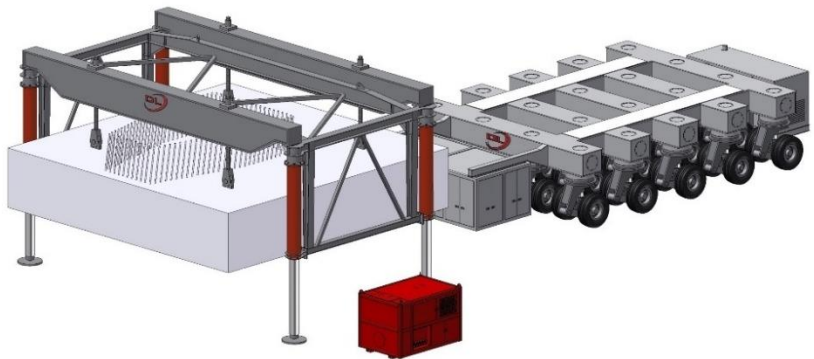




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**2 x 260 te straddle carriers, Riyadh Metro, KSA**





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New Champlain Bridge, Canada. Transporter





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**DL-TC500/30 transporter, Riyadh Metro, KSA**

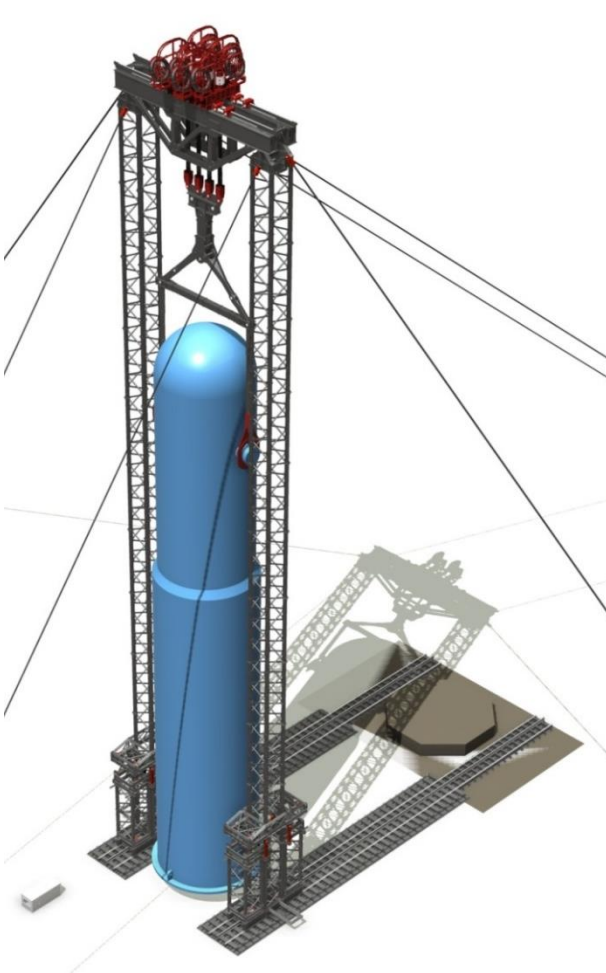




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**DL-TS3600 jacking tower system, China**







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**2500 te modular jacking tower system, China**





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1600 te modular jacking tower system, Taiwan



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**Goliath crane erection, Gunsan, kore**





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## **HAECO Hanger 3A roof lift, HK**

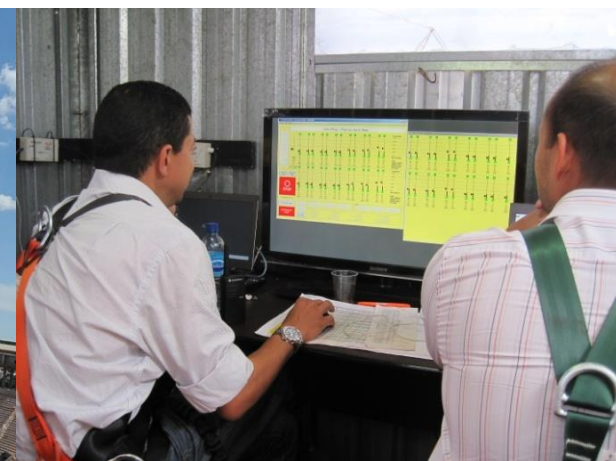
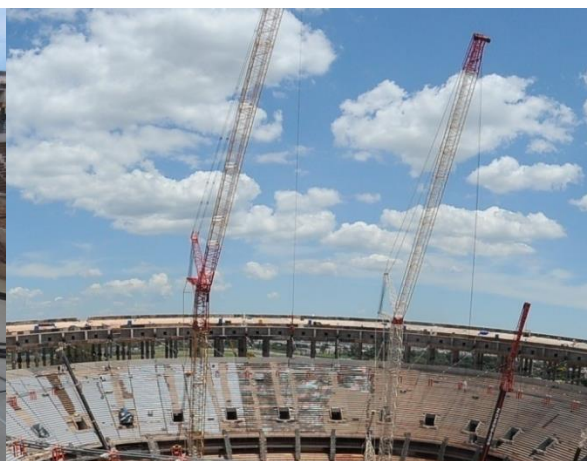




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## Wembley national stadium roof, UK









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**Heathrow new terminal 5 building, UK**





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## **Blast furnace installation, Taiwan**













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## MAARI jacket incremental lifting, Malaysia





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Load outs using DLT strand jacks, to 14,000 te









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2 x 1000 te Jacket skidding system





09/27/2010



# Olmstead dam project, USA





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ShiBanPo bridge, China





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Sheik Khalifa Bin Salman bridge, Bahrain





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**End of presentation**