

CRANE ROPE SELECTION / APPLICATION

BRIDON



Dyform 6



Dyform 8PI



Endurance 50DB



Endurance 35LS



Dyform 34LR



Dyform Bristar 6



Dyform 34LR-PI



Brifil



Zebra

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Tower Cranes: T' top, Luffing, Self Erecting, etc

Applications: Hoist ropes Trolley ropes Derrick/Boom ropes
Rope diameters: 10mm to 18mm 6mm to 16mm 24mm to 28mm
Rope construction: Endurance 50DB 6-strand Dyform 6
 Endurance 35LS or Dyform 8PI
 Dyform 34LR Multi-strand Constructex

Manufacturers:

Liebherr
Terex - Peiner
 - Comedil
Manitowoc - Potain
Wolff
Jost Cranes
Jaso
Comanso
Kroll
Arcomet
Linden
Pinguely - Haulotte

Potential customers:

HTC Plant
London Tower Cranes
Falcon Crane Hire Ltd
UK Tower Crane Hire (McCarthy & Stone)
Bennetts Cranes Ltd
Delta Tower Cranes
Ladybird Crane Hire
NRC Plant Ltd
City Cranes
Vanson Cranes

Note;

Generally 50DB up to 150m height of lift, above that 35LS or 34LR
Small self erecting tower cranes, small diameter RR ropes 6mm to 16mm

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Mobile Cranes: All types of HYDRALIC luffing (no boom hoist rope)

Applications: Main hoist ropes
Rope diameters: 13mm to 26mm
Rope construction: Auxiliary hoist ropes
Endurance 50DB
Endurance 35LS
Dyform 34LR

Manufacturers:

Liebherr
Terex - American
- Bendini
- Demag
- PPM

Mantowoc

Grove, Krupp, Coles
National Cranes
Tadano Faun
Kato

Potential customers:

Ainscough

Notes;

6-strand ropes can be used on some mobiles in conjunction with a swivel
Heavy, high frequency use, recommend Dyform 34LR
Liebherr, special cylindrical end stops
Demag, special cylindrical end stops

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Crawler Cranes:

Applications: Main hoist rope
Rope diameters: 26mm to 38mm

Rope construction: Dyform 6
Dyform 8PI
Endurance 50DB
Endurance 35LS
Dyform 34LR

Auxiliary hoist rope
26mm to 38mm

Dyform 6
Dyform 8PI
Endurance 50DB
Endurance 35LS
Dyform 34LR

Fly Jib Stay Rope
26mm to 38mm

Dyform 6
Dyform 8PI

Boom hoist rope
26mm to 38mm

Dyform 6
Dyform 8PI
Dyform DSC 8
Constructex

Boom Pendants
26mm to 38mm
Galvanised RHO lay
Dyform 6
Dyform 8PI

Manufacturers:

Terex - Demag
Liebherr
Link-belt
Kobelco
Somitomo
Hitachi
IHI
Sany
Fushun
P&H
American Hoist

Potential customers:

Weldex

Harbour Docksides Cranes:

Applications:

GRABBING

Holding / Hoisting

Rope diameters: 24mm to 32mm

Rope construction: 1LH & 1RH

Dyform 6

Dyform 8PI

Brifil 6-strand

Closing

24mm to 32mm

1LH & 1RH

Dyform 6

Dyform 8PI

Brifil 6-strand

Nemag /Demag Sockets

Nemag /Demag Sockets

General Cargo

Hoisting

24mm to 32mm

Single rope

6x36 class (with swivel)

Dyform 6 (with swivel)

Endurance 50DB

Endurance 35LS

Dyform 34LR

Boom Hoist

24mm to 32mm

Single or pair

6x36 class

Dyform 6

Dyform 8PI

Dyform DSC 8

Constructex

Manufacturers:

Gottwald

Liebherr

Fantuzzi

Noell

Potential customers:

Ports & Inland wharfs

ABP - Ayr

- Barrow

- Barry

- Cardiff

- Fleetwood

- Garston

- Goole

- Grimsby

- Hull

- Immingham

- Ipswich

- King's Lynn

- Lowestoft

- Newport

- Plymouth

- Port Talbot

- Sillioth

- Southampton

- Swansea

- Teignmouth

- Troon

Note;

This category can cover a wide variety of cranes

Can be rubber tyre, rail mounted or pedestal

Used for general cargo, grabbing, containers, etc

Ship to Shore Container Cranes:

Applications: Main hoist ropes

Rope diameters: 24mm to 28mm

Expected life: 12 months min.

Rope construction: Normally 2LH & 2RH

Dyform 6

Dyform Bristar 6

Dyform 8PI

Dyform 6

Dyform Bristar 6

Dyform 8PI

Dyform DSC 8

Trolley Front & Rear

24mm to 28mm

1 to 2 years

6x19 / 6x36

Dyform 6

Secondary Trolley

10mm to 20mm

1 to 2 years

Dyform 6

Dyform Bristar 6

Dyform 8PI

Boom Hoist

28mm to 32mm

10 years

Manufacturers:

ZPMC

Liebherr

Kenz Figee

Kone Cranes

Kalmar

Fantuzzi Reggiane

Hyundai

Noell

Paceco

Potential customers:

DP World - Southampton (ABP)

- Tilbury (ABP)

- London Gateway (new)

Hutchinson Ports - Felixstowe

- Thamesport

- Harwich

PSA - Gt Yarmouth (new)

ABP - 11 handle containers

Peel Ports - Mersey Dock & Harbour Company

- Port of Liverpool

- Heysham Port

- Medway Port

- Clydeport

- Hunterson

- Glasgow

- Greenock

- Ardrossan

- Manchester Ship Canal

Other associated cranes - RTG's / Straddle Carriers

Hoist ropes - Normally 4 ropes (2LR & 2RH) or 4RH

16mm to 26mm

Dyform 6

Dyform 8PI

Note

The port generally contracts a 3rd party to install these ropes at short notice

Some Ports prefer a supply install - one stop supply

Rope life can be accurately monitored on number of boxes handled

Ship Unloaders - Grabbing Cranes

Applications: <u>Hoist ropes</u>	<u>Closing Ropes</u>	<u>Racking Front & Rear</u>	<u>Boom Hoist</u>
Rope diameters: 40mm to 48mm	40mm to 48mm	40mm to 48mm	40mm to 48mm
Expected life: 12 months min.	12 months min.	1 to 2 years	10 years
Rope construction:	6x36 class	6x36 class	Galvanised
	Dyform 6	Dyform 6	6x36 class
	Dyform 8PI	Dyform 8PI	Dyform 6
	Brifil 6	Brifil 6	Dyform 8PI
	Bristar 6	Bristar 6	Dyform Bristar 6
		Zebra	

Nemag /Demag Sockets Nemag /Demag Sockets

Manufacturers:

Hunterston
Liverpool
Redcar
Immingham
Port Talbot

Potential customers:

Note

Historically most were Corus controlled, handling Iron ore, coal, etc, today being used for importing other bulk materials (wood chip)
Newer Ports/Quays tend as an alternative to these large cranes to be purchasing mobile harbour grabbing cranes to conduct the same operation

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Offshore Pedestal Crane

Applications: <u>Main hoist rope</u>	<u>Whip hoist rope</u>	<u>Boom hoist rope</u>	<u>Boomendants</u>
Rope diameters: 19mm to 32mm	19mm to 32mm	19mm to 32mm	28mm to 38mm
Rope construction:	Endurance 50DB Endurance 35LS Dyform 34LR	6x36 class Dyform 6 Dyform 8PI Dyform DSC 8	Galvanised RHO lay 6x36 class Dyform 6 Dyform 8PI

Manufacturers:

National Oilwell Varco

- AmClyde
- Dreco
- Hydralift
- Molde
- National Oilwell
- Stahlproduktur

Liebherr
Kenz

Seatrax

Hydramarine

Baker Marine

IHC Gusto / SBM

TTS Norlift

Potential customers:

Offshore contractors

Service companies

Note

Most of this business is offered on a contract (3yr) basis