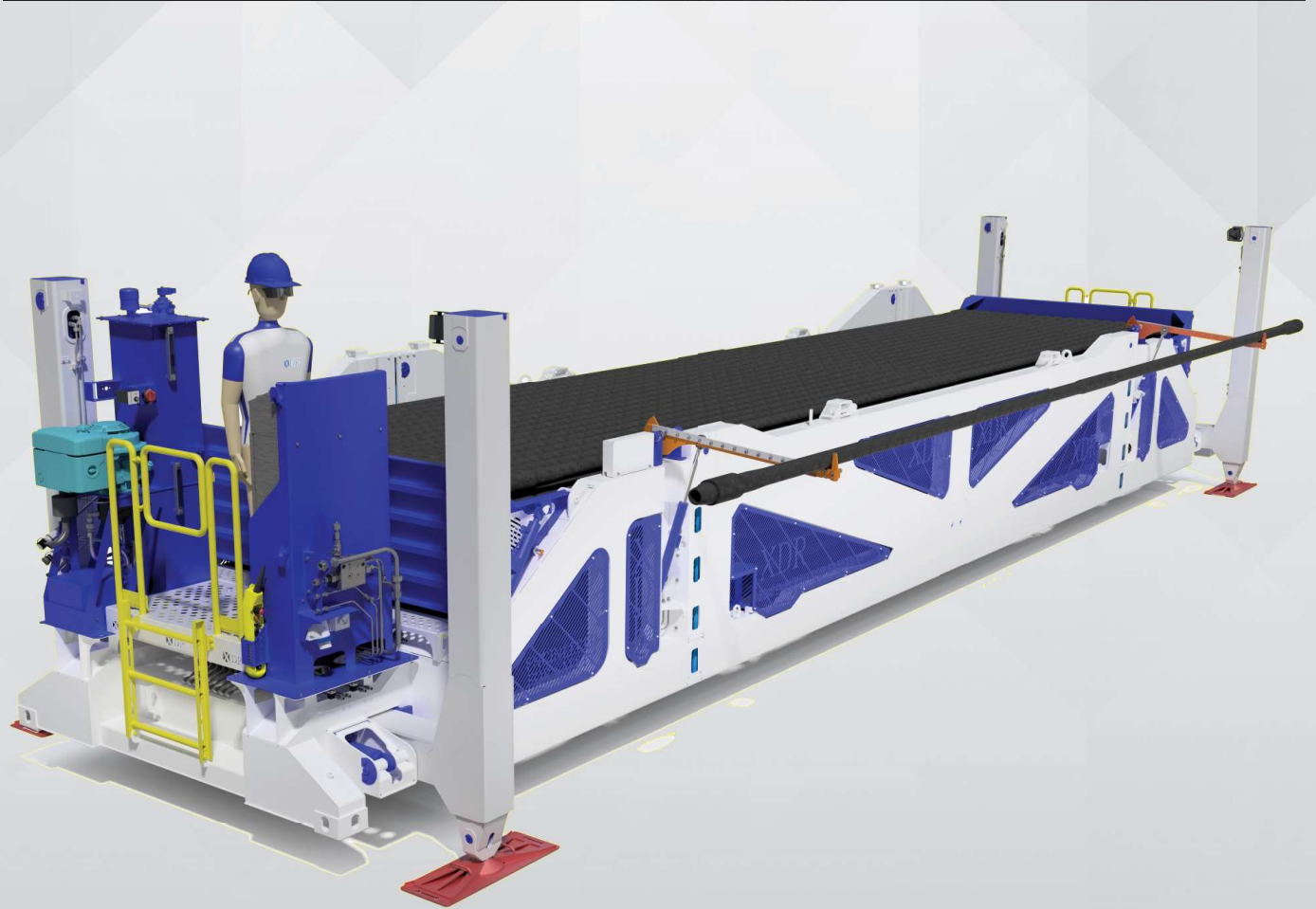


XDR Tubular Magazines

Technical Specifications



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Overview

The magazine is designed to be capable of transporting a range of drill pipe and tubing (From 2 7/8 to 4 1/2); and for such a system to unload at a rate consistent with the required 'pipe feed rate' of the corresponding GH10 Catwalk and GR12 RIG – 100 joints per hour – without direct human interaction at any point. The following list details the functional aspects of the GH05 Pipe Magazine:

For the magazine to carry, load and unload a range of Range II pipe and tubing sizes; as specified in Table 1.

For the magazine to support and transport a maximum payload of 30, 000 kg.

For the magazine to support an operating payload of 36, 000 kg

For the magazine to be transported on a standard flatbed trailer, utilising standard 40 ft container dimensions (Maximum dimensions of 2500mm (W) x 12190mm (L) x 2700mm (H) – with the length and width serving to support the container lock and transport dimensions and the height serving to comply with transport limits when on a typical 1500mm flatbed trailer (with 100mm clearance).

For the magazine to utilise a self-contained jacking system- serving to allow the magazine to be independently loaded and unloaded from the trailer.

For the magazine to adjust pitch and yaw to ensure alignment with the XDR Catwalks

For the magazine to feature access to the pipes in storage to allow for drift testing on the internal faces.

Safety Integrity assessed control systems

Table 1

Nominal Size	Type	Magazine Capacity
2 7/8	Tube	240 Units
3 1/2	Tube	160 Units
4 1/2	Tube	126 Units

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Item		Unit		Current Design	Compressible (Soil) Ground Pressure (kPa)	Incompressible (Concrete) Ground Pressure (kPa)
	Transport					
Length		m		12.2	-	-
Width		m		2.5	-	-
Self-Mass		kg		9,000	-	-
Tubular-Mass		kg		30,000	-	-
Transport Mass		kg		39,000	-	-
Setup Time		min		30	-	-
Setup Personnel				1	-	-
	Tubing					
Tubular Specification				API J55 EUE Range 2		
		Magazine Mass 31 Tonnes				
2 7/8" Tubular Capacity Mass 138 kg/tube		UI		159	415	1465
3 1/2" Tubular Capacity Mass 190 kg/tube		UI		117	419	1479
4 1/2" Tubular Capacity Mass 185 kg/tube		UI		118	414	1460
		Magazine Mass 36 Tonnes				
2 7/8" Tubular Capacity Mass 138 kg/tube		UI		195	481	1699
3 1/2" Tubular Capacity Mass 190 kg/tube		UI		143	485	1711
4 1/2" Tubular Capacity Mass 185 kg/tube		UI		145	480	1695
		Magazine Mass 39 Tonnes				
2 7/8" Tubular Capacity Mass 138 kg/tube		UI		217	522	1842
3 1/2" Tubular Capacity Mass 190 kg/tube		UI		159	525	1855
4 1/2" Tubular Capacity Mass 185 kg/tube		UI		162	522	1843

The Software Operating System On All XDR Third Generation Oil Field Equipment Uses XDR Xenon. Click The Logo Below For Further Information

XDR XENON
RIG TELEMETRY TECHNOLOGY

XDR Tubular Magazines

Technical Specifications

Images Of Magazines Currently In Production

