

Burner Boom Solution

Key Advantages

Technology Intensive Structure with proven test results

One-Stop Turn-Key Solution

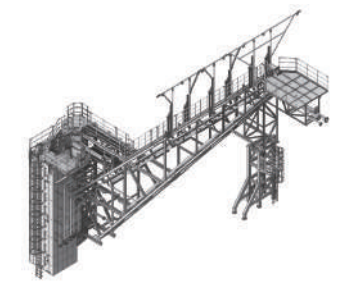
Burner Boom by Type



King Post Mounted



Cantilever Type



Swan-Neck Type



Technology Intensive Structure with proven test results

- Safety focused solutions base on extensive heat radiation studies.
- Proprietary patented nozzle design with effective nozzle range for water shield system.
- Optimized design based on sound structural engineering and extensive fatigue analysis, as well as in-depth know-how accumulated through extensive experiences.
- Customized Structure, Swivel Joint, Pipe Line, Secondary Structure and Hydraulic Cylinder sizes available according to customer requirements.

Proprietary Patents

Date of Entry	Title of Invention	Registration Number
2012.04.26	A nozzle for a burner boom water spray system of an offshore plant	10-1142726
2014.06.11	A Structure of locating nozzles for a burner boom water spray system of an offshore plant	10-1408779

Proven Test Results

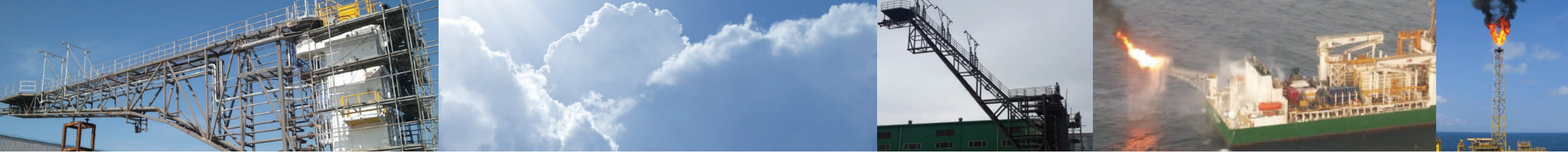
Tests	Contents	Performance
Swing test	Test for the rotation(0°~180°) operating of Burner boom.	Rotation 180°
Swivel Joint Pressure test	Leakage assessment of swivel joint from high pressure	Pressure Max. 1000bar
Strength test slew bearing	Wear resistance and strength assessment for heat-treated bearing	Impact energy 74J Strength 590N/mm2
Load test	Deflection assessment when weight load on end of burner boom	Load weight 2 ton
Spray system heat reduction test	Heat reduction performance assessment of spray system from high heat source	Heat Flux 4.73kw/m2
Hydraulic line pressure test	Leakage assessment of hydraulic line from high pressure	Pressure Max 210 bar

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Burner Boom Solution

One-Stop Turn-Key Solution

Work Scope

Scope	Service	Material Solution	Assembly Solution	Turn Key Solution	Note
Engineering & Design		●	●	●	Provide design, analysis, shop drawings
Material Procurement		●	●	●	Provide parts and materials
Fabrication		–	●	●	Provide fabrication
Installation		–	–	●	Execute installation
Project management			●		Provide customer integrated project management

Burner Boom Package components

- Boom structure / walkway with handrails / burner support with platform and handrails
- Swing and locking cylinders with brackets
- Water spray shield cooling system with booms and ancillaries
- Boom support brackets
- Piping, flanges and swivels
- Slew bearings
- Sea Fastening

SEBOTECH Reference List

King Post Mounted

Project No.	Owner	Ship Type	Class	Supply scope
3614/17/19/22	ATWOOD	DRILLSHIP	DNV GL	Turn-Key Solution

Cantilever Type

Project No.	Owner	Ship Type	Class	Supply scope
3026/27	GRUPO-R	SEMI-SUBMERSIBLE RIG	DNV GL	Turn-Key Solution
3028	PETROSERV	SEMI-SUBMERSIBLE RIG	DNV GL	Turn-Key Solution
3033	ODFJELL	SEMI-SUBMERSIBLE RIG	DNV GL	Turn-Key Solution
3034/35	SONGA	SEMI-SUBMERSIBLE RIG	DNV GL	Turn-Key Solution
3609/10	ODEBRECHT	DRILLSHIP	DNV GL	Turn-Key Solution
3612/13	TRANSOCEAN	DRILLSHIP	DNV GL	Turn-Key Solution
3615	VANTAGE	DRILLSHIP	ABS	Turn-Key Solution
7094/96	OCEAN RIG	DRILLSHIP	DNV GL	Turn-Key Solution
7103	OCEAN RIG	DRILLSHIP	ABS	Turn-Key Solution

Swan-Neck Type

Project No.	Owner	Ship Type	Class	Supply scope
2059/62	ENSCO	DRILLSHIP	ABS	Turn-Key Solution
2096	ENSCO	DRILLSHIP	ABS	Turn-Key Solution
7121	OCEAN RIG	DRILLSHIP	ABS	Turn-Key Solution

Equipment Specification Data

Capacity	Gas : 100MMscfd, Oil : 15,000 barrels/head/day
Length	27m~31m(Cantilever Truss Structure)
Weight	Kingpost : abt. 8ton, Cantilever : abt. 13ton, Swan-neck : 18ton
Oil Line MAWP/Line Size	Max. Pressure 14,500psi(1000bar) Value is flexible due to customize requirement and Burner selection
Gas Line MAWP/Line Size	
Vent Line MAWP/Line Size	
Water Line MAWP/Line Size	
Air Line MAWP/Line Size	
Walk way	Live Load Limit(5kN/m2)
Service	H2S
Installation	DRILLSHIP and SEMI-SUBMERSIBLE RIG
Certification	DNV, ABS, BV to AISC-ASD/LRFD, API-RP 2A-WSD/LRFD
Rotating System	Operated by Hydraulic Cylinder System