

fadgroup



WHERE WE ARE



 **forge nicromo** SpA

Via Provinciale, 57,
23813 Cortenova (LC) Italy
www.forgenicromo.it

 **fad flange acciaio e derivati** SpA

Via C.Giovanni Boneschi, 1
20040 Cambiago (MI) Italy
www.fadflange.it

 **FAD international** s.p.a.

Via Monza, 146,
20060 Gessate (MI) Italy
www.fadint.it



FADFLANGE
www.fadflange.it

FAD Flange Acciaio & Derivati Spa



FADFLANGE
www.fadflange.it



Fad Flange established in 1961



Designer, Forgemaster,
Manufacturer & Stockist of Forged
Steel Piping Products & BW Fittings



ABOUT US

Company Chronological Timeline

1961

FAD Flange Acciaio & Derivati SpA is born, created by Giulio Sala & Vittorio Biraghi as a machine shop for Forged Products to be supplied to third parties, traders & stockists

1974

FAD wins its first direct Contracts with Oil & Gas End Users and Engineering Companies

1980

FAD moves to Brugherio near Monza, with larger facilities and offices, growing in the number of employees and likewise yearly production output.

1991

FAD appoints Tecsider Ltd as its worldwide sales agent.

1995

FAD decides to open a forging facility and Forge Nicromo is born.

1996

FAD decides to open a Piping Trading Company and *FAD International SpA* is born.

2010

FAD moves its Offices, Machining & Flange stock to its new premises at Cambiagio, Milan and also opens the new Forge Nicromo plant at Bindo di Cortenova, Lecco.

2015

FAD opens a Weld Overlay Facility dedicated for its products so able to perform this key activity in-house.

2017

FAD invests in a new Quality Heat Treatment Facility located with the Forge Nicromo location, able to perform QHT of all Items produced in all material grades.

2019

FAD International opens a new Butt Weld Fittings production facility at their Gessate location, able to produce all BW Fitting types from ½"NB to 30"NB in all material grades.

2021 22

FAD invests USD \$10M in a new building adjacent to their existing Cambiagio facilities together with several state of the art machine tools to optimize the quality & manufacturing efficiencies for the Products requested by its Clients





WHAT WE DO

Sectors and Products



FAD Group is a "one stop shop" for Forged Steel Flanges, Special Pieces & Fittings for Oil, Gas and new Green Energy Projects worldwide serving end users, engineering companies, design houses and trading companies alike.

WHAT WE DO

Sectors & Products

Onshore

Offshore

New Energy

Subsea

MAIN ITEMS SUPPLIED:

- API & ASME DESIGN SWIVEL RING, WELD NECK & BLIND FLANGES
- COMPACT SWIVEL RING, WELD NECK & BLIND FLANGES
- MISALIGNMENT FLANGES
- ANCHOR AND HANGER FLANGES
- BUTT WELD FITTINGS - ELBOWS, TEES, REDUCERS & CAPS
- PIPE AND BUNDLE TYPE BULKHEAD FORGINGS
- COLLARS & BUCKLE ARRESTORS
- SPECIAL TEE PIECES INCLUDING LATERALS
- BI-DIRECTIONAL PIGABBLE WYE PIECES
- PAWN HEADS & ASSOCIATED ELBOW ADAPTOR
- ANY MACHINED FORGING TO CLIENT SPECIFIC DRAWINGS
- INDUCTION / PULLED BENDS
- STUD BOLTS, FASTENERS, GASKETS & SEAL RINGS

ALL MATERIALS INCLUDING:

- STANDARD LOW TEMP. & HIGH YIELD. CARBON STEELS
- ALLOY
- STAINLESS
- DUPLEX & SUPER DUPLEX
- HIGH ALLOY I.E. INCONEL, INCOLOY, HASTELLOY, MONEL
- INCONEL OR OTHER CRA WELD OVERLAY
- CRA WELD OVERLAY (GMAW & GTAW)



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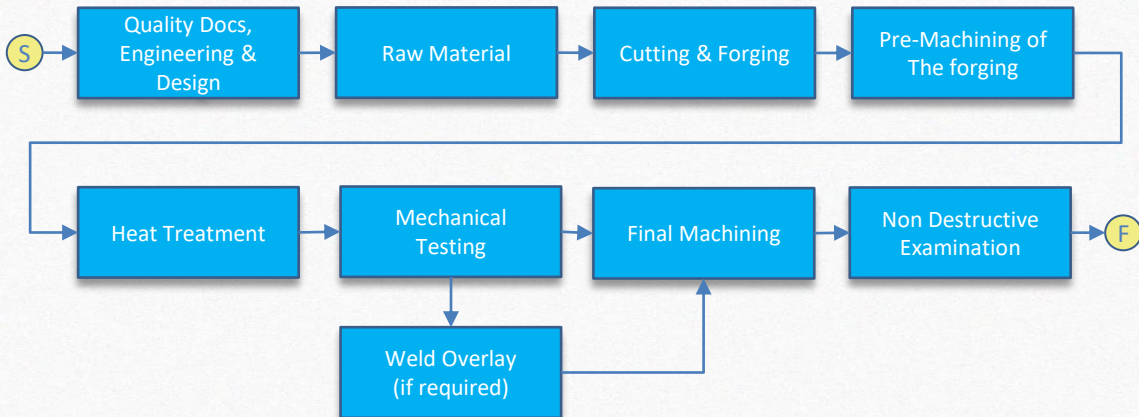
HOW WE WORK

Manufacturing Sequence



FORGED PIECES

TYPICAL MANUFACTURING SEQUENCE





Technical Office
Cambiago (MI)

WHAT WE DO

Technology and Know How

Preparation

During the development of each job the following points are taken into account:

- The requirements for the product (Customer Specifications, Drawings, Code Requirements)
- The objectives of quality and effectiveness (Technical Specifications of the Product, delivery times)
- The methods and resources needed to achieve the identified processes (involving appropriate sub-suppliers, testing and inspection)
- The methods of verification, control and monitoring of the product and the appropriate acceptance criteria
- Appropriate records needed to provide evidence that the processes of manufacturing in order to satisfy the requirements



Design

When required, Items can be fully designed and developed according to the Customers specific requirements, through implementation of Drawings / Calculations including FEA as well as MPQ test pieces prior to main Production.

Validation

The complete design is performed with the use of certified software and is validated by performing specific tests carried out in the laboratory and in collaboration with FAD independent laboratories.

All projects undergo final validation by the customer and / or independent international bodies.

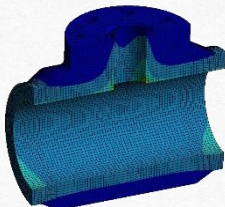


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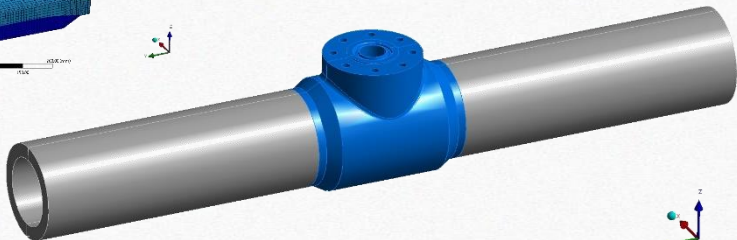
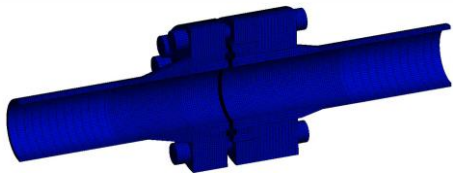
MANUFACTURING SEQUENCE

Design & Engineering

ANSYS Structural
Equivalent Stress - All
Type: Equivalent (von-Mises) Stress
Units: MPa
Rev: 1
150.22 Min
100.00
75.00
50.00
25.00
0.00
-25.00
-50.00
-75.00
-100.00
-150.22 Max



ANSYS Structural
Equivalent Stress - All
Type: Equivalent (von-Mises) Stress
Units: MPa
Rev: 1
352.87 Min
300.00
250.00
200.00
150.00
100.00
50.00
0.00
-50.00
-100.00
-150.00
-200.00
-250.00
-300.00
-352.87 Max



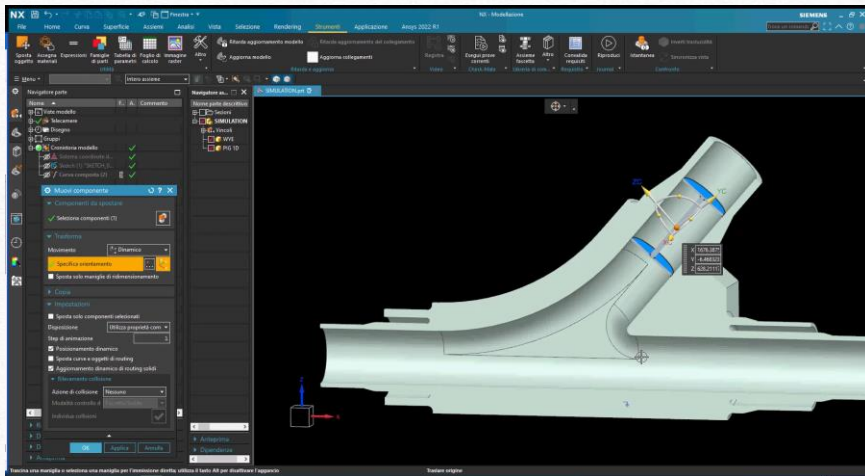
0.00 175.00 350.00 (mm)



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MANUFACTURING SEQUENCE

Design & Engineering



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Accreditations



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Base Material



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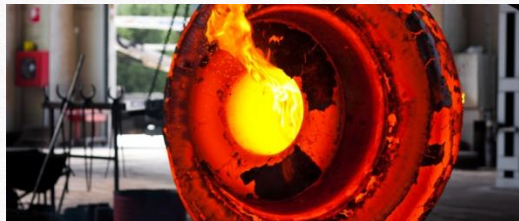
Forging



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MANUFACTURING SEQUENCE

Forging



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Forging



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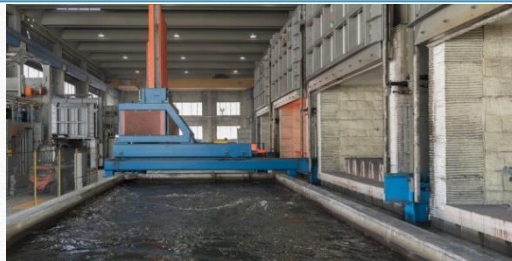
Pre-Machining of the Forgings



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Forge Nicromo

Quality Heat Treatment



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MANUFACTURING SEQUENCE

Mechanical Testing



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Weld Overlay

We have 8 Weld Stations that are able to carry out both automatic and semi-automatic processes for various PGMAW, GTAW, SAW, SMAW weld processes plus any manual welding applications.



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MANUFACTURING SEQUENCE

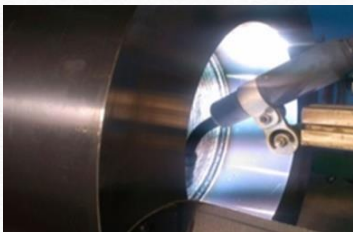
Weld Overlay



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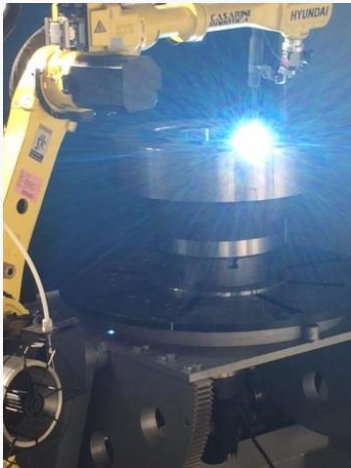
Weld Overlay



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Weld Overlay



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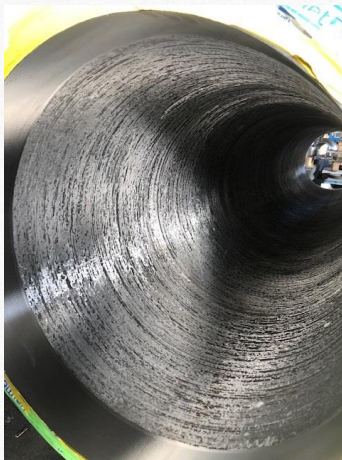
Weld Overlay



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Weld Overlay



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MANUFACTURING SEQUENCE

Machining



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Machining



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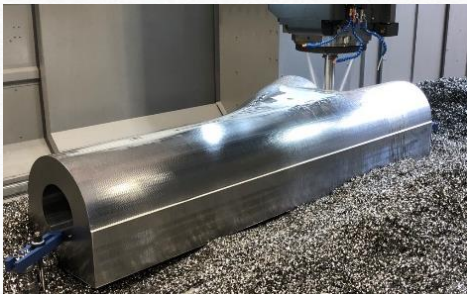
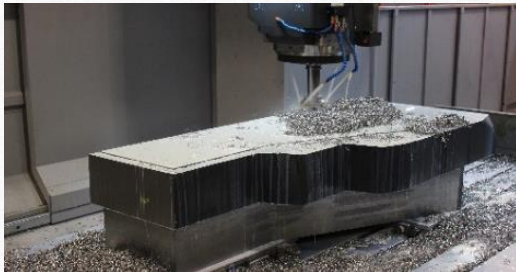
Machining



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MANUFACTURING SEQUENCE

Machining



FAD International SpA



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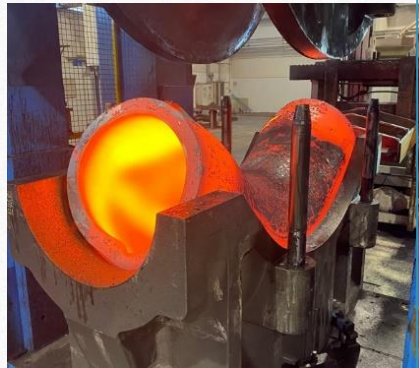
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MANUFACTURING SEQUENCE

BW Fittings Production

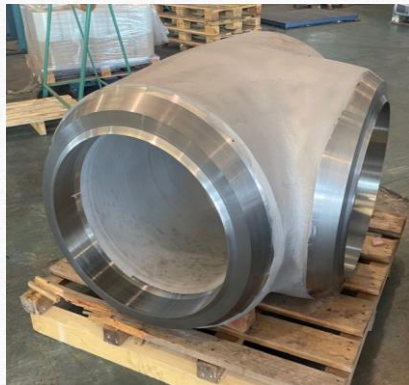


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OUR PRODUCTS



Below are a selection of typical Flanges, Forgings and Fittings we produce for our Clients

OUR PRODUCTS

ASME/API Flanges



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OUR PRODUCTS

ASME/API Flanges



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ASME/API Flanges



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ASME/API Flanges



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Compact Flanges



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OUR PRODUCTS

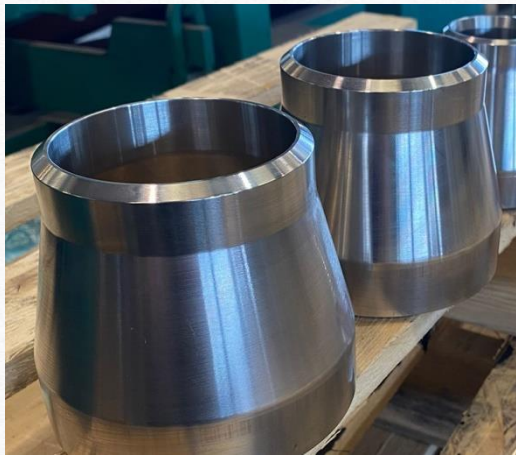
Barred Tees



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OUR PRODUCTS

BW Fittings



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OUR PRODUCTS

BW Fittings



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OUR PRODUCTS

Bundle/Riser Bulkhead Forgings



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Collars / Taper Joints



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Anchor/ Hang Off Pieces



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Bulkhead Forgings



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OUR PRODUCTS

Bulkhead Forgings



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OUR PRODUCTS

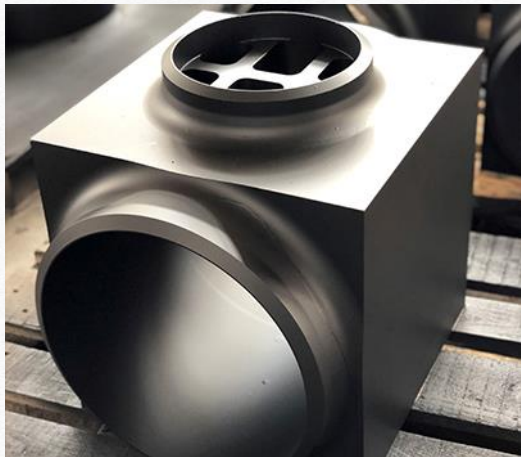
Pulling Heads



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OUR PRODUCTS

Machined Tee Pieces



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Machined Tee Pieces



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Machined Tee Pieces



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Piggable WYE Pieces



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OUR PRODUCTS

Piggable WYE Pieces



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OUR PRODUCTS

Pawnhead / Reel Head



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Forged Pipes



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OUR PRODUCTS

Forged Pipes



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OUR PRODUCTS

Stress Joint



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OUR PRODUCTS

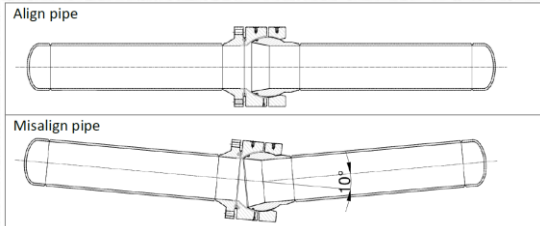
Misaligning Flanges – Type: 16" 600LB Subsea Misalignment Flange



TESTING ACCORDING TO API 17D
DESIGN TEMPERATURE +65°C

- A) PRESSURE –CYCLING TEST HYDRIOSTATIC TEST
- B) HYPERBARIC CYCLING TEST
- C) TEMPERATURE CYCLING TEST
- D) LOAD CYCLING TEST

SEAL AREA WITH WELD OVAERLAY IN ER NiCrMo3



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OUR PRODUCTS

Fabricated Pipe Spool Pieces



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OUR PRODUCTS

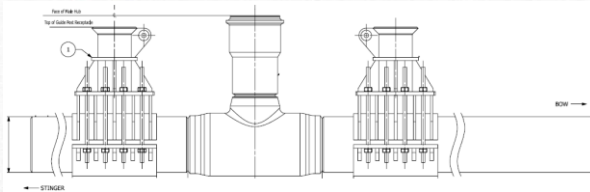
Fabricated Pipe Spool Pieces



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OUR PRODUCTS

Hot Tap Tee



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OUR REFERENCE LIST

Year	Project	Client	Product Supplied
2022	Murphy Kings Quay	Trendsetter Eng.	High Yield F65 Elbows & High Yield F65 Reducing Tees
2022	CNOOC Golden Eagle Area Development	Subsea 7 UK	ASTM A182 F55 SR & WN Flanges & ASTM A694 F65 Flanges & Fittings
2022	Quatargas North Field South (NFS)	McDermott Middle East	ASTM A694 F65 c/w Inconel 625 Meg Riser Flanges
2022	Brunei Shell Petroleum PRP8 Pipelines Replacement	Subsea 7 Singapore	ASTM A694 F65 c/w Inconel 625 Induction Bends
2022	Premier Burgman Far East	Subsea 7 UK	High Yield F65 c/w Inconel 625 & F55 Flanges & Fittings
2022	BHP Shenzi North	TechnipFMC USA	High Yield F65 Anchor Forgings
2022	Chevron Ballymore	CSM - Cortec USA	ASTM A182 F22 c/w Inconel 625 MOD Forgings
2022	ConocoPhillips Eldfisk North	Subsea 7 Norway	ASTM A694 F65 c/w Inconel 625 Anchor Forgings, Special Forged Tees, A860 WPHY 65 UNS N06625 Elbows & Test Rings
2022	Shell Powernap Ph3	TechnipFMC USA	ASTM A694 F65 Pawn Heads
2022	Petrobras Mero 2	TechnipFMC Brasil	ASTM A694 F65 Forged Transition Joints & Pawn Heads
2022	TAQA Cormorant Alpha J-Tube Sealing Solutions	Subsea 7 UK	ASTM A694 F52 WN Flanges, ASTM A860 WPHY 52 Domed Ends & Test Rings

OUR REFERENCE LIST

Year	Project	Client	Product Supplied
2022	Chevron Ballymore	Subsea 7 USA	ASTM F65 Anchor Forgings, Integral Barred Tee & Forged 30deg Elbows
2022	Equinor Northern Lights	Subsea 7 Norway	ASTM A694 F65 Special Tees, Bulkhead, Anchor Flange & WN Flange. High Yield F65 WN & Blind Flanges + Fittings
2022	Santos Barossa	FMC Technologies	CS F65 Elbows & API 5 L PSL2 Pipe. CS F65 BW Fittings
2022	Shell Vito	Subsea 7 USA	High Yield F65 Forged Lifting Pad Eyes
2022	Aker BP Hanz	Subsea 7 Norway	A694 F52 c/w Inconel 625 Weld Neck, Swivel, Blind Flanges & Fittings. ASTM A694 F65 c/w Inconel 625 Wey Piece with Integral Bulkhead. A694 F65 BW Fittings, Anchoring Bulkhead & Stress Joints
2022	Shell Ormen Lange	Subsea 7 Norway	High Yield F65 Anchor Forgings & Transition Piece with Test Rings & Fittings. "S" shape Induction Bends
2022	HUIZHOU 32-5 Oil Fields Development Project	TFMC Australia	High Yield F65 c/w Inconel 625 Swivel Ring Flange & Test Rings
2022	Premier Tolmount	Subsea 7 UK	API High Yield F55 WN Flanges, High Yield F55 Compact Flanges & Anchor Forgings, ASTM A694 F65 c/w Inconel 625 Spool Flanges & Test Rings. ASTM A694 F65 Tees & Elbows
2022	Fieldwood Gunflint	Subsea 7 USA	ASTM A694 F65 c/w Inconel 625 Flanged Tee, High Yield F65 Forged Target Tees, Concentric Reducer & Test Rings
2022	Santos Barossa	S7 Australia	ASTM A694 F65 c/w Inconel 625 Anchor Forgings, Special Forged Tees, WN & Blind Flanges, ASTM B444 UNS N06625 Forged Pipes & Elbows
2022	DeNovo Zandolie Pipeline	Sapura Energy	ASTM A694 F65 c/w Inconel 625 WN Flanges & Stud Bolts
2022	OKEA Hasselmus	Subsea 7 Norway	ASTM A694 F65 c/w Inconel 625 Bulkhead Forgings & Transition Pieces, High Yield F65 Stress Joints & Anchor Bulkhead, ASTM A694 F65 c/w Inconel 625 Flanges
2022	Conoco Philips Norpipe WYE Valves Replacement	TechnipFMC Norway	ASTM A694 F65 c/w Fully Weld Overlay Inconel 625 Clad Weld Neck, Swivel Ring Flanges & Blind Flanges, Elbow & Forged Pipes
2022	Ithaca Captain EOR	TechnipFMC UK	ASTM A182 F55 SR & WN Flanges & ASTM A694 F65 c/w Inconel 625 SR & WN Flanges with Test Rings, High Yield F65 & Super Duplex F55 Elbows
2022	Shell Powerap Ph3	TechnipFMC USA	High Yield F65 Anchor Forgings & Test Rings
2022	Equinor Kristin South	TechnipFMC Norway	ASTM A694 F65 c/w Inconel 625 Bulkhead Forgings, Tee & Pup Piece
2022	Woodside Sangomar Ph1	Subsea 7 UK	API High Yield F65 Blind Flanges & API High Yield F55 WN Flanges, Fasteners
2022	Anadarko Caesar Tonga	TechnipFMC USA	High Yield F70 Anchor Forgings, PIP Bulkhead & Pawn Heads with Test Rings

OUR REFERENCE LIST

Year	Project	Client	Product Supplied
2021	Santos Barossa	TechnipFMC UK	High Yield Carbon Steel F60 BW Fittings
2021	BP TOPR	Subsea 7 USA	ASTM A694 F65 c/w Inconel 625 Flanges, Special Tees & Elbows, Anchor Forgings & Structural Collars, Gaskets & Fasteners
2021	IOG Blyth & Vulcan	Subsea 7 UK	ASTM A694 F65 c/w Inconel 625 24"NB SR & WN Flanges with Test rings
2021	Chevron T.V.E.X.	CSM - Cortec USA	High Yield Carbon Steel F60 Forged Pipes, BW Tees, Reducers & Flanges
2021	BW Energy Ruche Phase 1	TechnipFMC France	A694 F65 WYE Pieces, Anchoring Bulkheads, Pipes, Inconel 625 overlay Clad WN Flanges & Blind Flanges
2021	BOC Majnoon	KBR	ASTM A350 LF2 API Flanges
2021	Murphy Kings Quay	Subsea 7 USA	High Yield F65 Elbows & High Yield F65 J-Lay Collar Forgings
2021	Equinor Bacalhau Ph1	Subsea 7 Brasil	ASTM A182 F22 WN Flanges welded to Pup Pieces, High Yield F65 Blind Flanges & Pipes
2021	Dana Tailwind Evelyn & Gannet E Expansion	TechnipFMC UK	High Yield F65 & F55 Linepipe, Flanges, Tees, Elbows, Reducers and Test Rings
2021	Tyra Redevelopment	TOTAL E&P Danmark A/S	High Yield Carbon Steel F60 Barred Tee & Test Rings, ASTM A694 F52 Flanges, Seal Rings & Test Rings
2021	CNOOC Oilfields Development	Asiatrix/TechnipFMC Malaysia	ASTM A694 F65 c/w Inconel 625 Swivel Ring Flanges, High Yield Carbon Steel Blind Flange & Fasteners
2021	Energiean Karish North Development	TechnipFMC UK	High Yield F65 Bulkheads, Anchor Forgings & Fittings
2021	Aker BP Kobra East Gekko (KEG)	Subsea 7 Norway	ASTM A694 F65 c/w Inconel 625 Compact Weld Neck Flanges, Swivel Ring Flanges, Blind Flanges, Fittings & Integral Flanged Bulkhead Forgings
2021	Iguana Brownfield Modification & Zandolie	DeNovo Energy	High Yield F65 c/w Inconel 625 Flanges & ASTM A350 LF2 Flanges, Fittings
2021	TPAO Sakarya Gas Field Development	Subsea 7 France	High Yield F65 Anchor Forgings & Fittings, High Yield Carbon Steel RTJ Flanges
2021	LLOG Exploration, LLC Spruance	EDG USA	API High Yield F60 & F70 Flanges & Fittings, ASTM A519 Gr. 4130 Pipes
2021	Exxon Payara	TechnipFMC USA	ASTM A182 F22 API Pulling Heads & Accessories
2021	LLOG Spruance and Dome Patrol	TechnipFMC USA	High Yield F65 Anchor Forgings, Pawnsheads & Transition Forgings
2021	Qatar Petroleum NFS II	Saipem Italy	ASTM A694 F65 c/w Fully Weld Overlay Inconel 625 Clad Weld Neck & Swivel Ring Flanges, Elbows & Forged Pipes 24" - 28"
2021	Shell Powermap	TechnipFMC USA	High Yield F65 Flanges & Fittings
2021	TAQA Brae Alpha & East Brae	TechnipFMC USA	High Yield Carbon Steel F60 & A694 F52 RTJ Flanges
2021	Shell King Embayment	TechnipFMC USA	High Yield F65 Swivel Flanges, WN & Anchor Forgings
2021	Equinor Breidablikk	TechnipFMC Norway	High Yield F65 Reelable PIP Bulkheads, Transition Pieces, Caps, Pawnsheads, Anchor Forgings & Pull-in Heads
2021	Reliance - KGD6-MJ Field Development	TechnipFMC France	High Yield F65 Buckle Arrestors & Transition Forgings

OUR REFERENCE LIST

Year	Project	Client	Product Supplied
2020	Petrobras Sepia	McDermott Brasil	ASTM A694 F65 Forged Anchor Collars with Norsok M-501 Coating System 7C
2020	Equinor Askeladd & Snorre	TechnipFMC Norway	ASTM A694 F65 c/w Inconel 625 Anchor Forgings, ASTM A694 F65 Pawnheads & Transition Piece
2020	Equinor EHS Europipe 2	Subsea 7 Norway	ASTM A694 F65 Forgings, Fittings, A694 F65 c/w Inconel 625 Compact Flanges
2020	Petrobras Mero 1	TechnipFMC Brasil	ASTM A694 F65 c/w Inconel 625 Anchor Forgings & Anchor Collars & Pawn Heads
2020	Equinor Bacalhau Ph1	Subsea 7 Brasil	A694 F65 Weld Neck Flanges, Blind Flanges, Fittings & Anchor Forgings, Transition Forgings, Installation Collars
2020	Murphy Kings Quay	Subsea 7 USA	A694 F65 WYE Piece, Anchor Forgings, Flanges, Special Tees & Elbows, Gaskets, Fasteners
2020	Aker BP Boa Attic South (BAS) & Alvhheim Future Wells (AFW)	Subsea 7 Norway	Duplex F51 Flanges & High Yield F65 Flanges & Fittings
2020	Chevron Tahiti Acid Injection & Flowback Lines	MRC Global	High Yield Carbon Steel F60 Pipe, Fittings & Flanges
2020	Woodside Sangomar Ph 1	Subsea 7 London	High Yield F65 c/w Inconel 625 Anchor Forgings, Flanges, Special Tees & Elbows, ASTM A694 F70 Transition Forgings
2020	Equinor Johan Sverdrup Ph2	Subsea 7 Norway	High Yield c/w Inconel 625 Anchor Forgings, Special Tees & Flanges
2020	Aker BP Hod Field Development	Subsea 7 Norway	ASTM A694 F65 c/w Inconel 625 Weld Neck Flanges, Swivel Ring Flanges, Blind Flanges & Fittings
2020	IOG Blyth & Vulcan	Subsea 7 UK	A694 F65 Weld Neck Flanges & Fittings, 24" Flanges, Fittings & Barred Tees. SA182 F55 Flanges & Orifice Plate
2020	DSVI Dana Triton Phase 1	Subsea 7 UK	A694 F65 Swivel Ring Flange, Weld Neck Flange
2020	BP Tortue	McDermott	Super Duplex A182 F55 Compact Flanges
2020	Shell Pierce	Subsea 7 UK	A694 F65 BW Fittings
2020	Fieldwood Ichalkil & Pokoch	Subsea 7 USA	ASTM A694 F65 c/w Inconel 625 Weld Neck, Swivel Ring Flanges, Blind Flanges, Gaskets, Studbolts and Nuts
2020	BP Mad Dog Phase 2	Subsea 7 UK	ASTM A694 F65 c/w Inconel 625 Water Injection Tees
2020	Shell Perdido Phase 2/ Shell Silvertip	TechnipFMC USA	ASTM A694 F65 Target & Block Elbows
2020	Murphy Calliope	Subsea 7 USA	ASTM A694 F70 Anchor Forgings (PIP), Weld Cap/Butt Weld Fittings

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Year	Project	Client	Product Supplied
2019	Woodside Julimar Phase 2 Development	Subsea 7 Australia	A694 F65 Weld Neck, Blind Flanges & Anchor Flanges & Fittings
2019	Talos Bulleit	Subsea 7 USA	A707 L5 Weld Neck Flanges, A707 L5 Swivel Ring Flanges, A694 F52 Weld Neck & Swivel Flanges
2019	Total Zinia Phase 2	Subsea 7 France	SA182 F55 Blind Flanges & High Yield F65 Flanges & Fittings
2019	Aker BP Kameleon Infill Mid	Subsea 7 Norway	Duplex F51 Flanges & High Yield F65 Flanges & Fittings
2019	Total Bos Shelf Absheron	Saipem Netherland	ASTM A694 F65 c/w Inconel 625 Clad Weld Neck Flanges, Swivel Rings, Hang Off Flanges, Anchor Flanges
2019	Qatar Petroleum Barzan	Saipem Italy	ASTM A694 F65 c/w Inconel 625 Clad RG & Faces & Bores , Weld Neck, Swivel Rings & Anchor Flanges 32" / 24"
2019	Shell Gannet D	TechnipFMC UK	Super Duplex F55 Weld Neck & Swivel Ring Flanges & Flanged PIP Bulkheads
2019	Hurricane Ambrose	TechnipFMC UK	High Yield F65 + Inconel 625 Weld Neck, Blinds & Swivels
2019	Shell Perdido Phase 2	TechnipFMC USA	Alloy F22M Material - Heavy Duty Flanges - Client Bespoke Design
2019	Neptune Energy Seagull	TechnipFMC UK	ASTM A694 F65 c/w Inconel 625 Clad RG & Faces & Bores , Weld Neck, Swivel Rings, PIP Anchor Flanges & Asymmetrical WYE Piece
2019	BP Tortue	McDermott Engineering	High Yield F65 + Inconel 625 Weld Neck, Blinds & Swivels, Tapered Stress Joints, Barred Tees, Anchor Forgings
2019	Shell Powermap	TechnipFMC USA	High Yield F65 + Inconel 625 Anchor Flanges & Pawns Heads
2019	Chrysaor Lad	Subsea 7 UK	High Yield F65 + Inconel 625 Flanges & Fittings
2019	Statoil Peregrino Phase 2	TechnipFMC UK	High Yield F65 Flanges, Anchor Forgings
2019	Shell Powermap	Technip FMC USA	High Yield F65 Flanges
2019	Premier Catcher North	Subsea 7 UK	Super Duplex F55 Flanges & High Yield F65 Flanges & Fittings
2019	BP Atlantis - Phase 3 - Surf	Technip FMC USA	A694 F65 Pawn Heads
2019	Marathon West Sedgwick	Subsea 7 UK	High Yield Carbon Steel F60 & Super Duplex F55 Flanges & Fittings
2019	Shell Arran	Subsea 7 UK	High Yield F65 c/w with Inconel 625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel 625 Seal Rings & Gaskets + Bulkheads
2019	Shell Penguins	Subsea 7 UK	High Yield F65 & F55 Flanges & High Yield F65 Main Bundle Bulkheads
2019	Husky Oil China Linhua 29-1 EPCI	TechnipFMC Malaysia	High Yield F65 Flanges & Fittings
2019	Shah Deniz 2	BP Exploration Ltd c/o KBR	High Yield F65 WN Flanges
2019	Equinor Tor 2 Surf	Technip FMC Norway	High Yield F65 Forgings
2019	Neptune Energy Duva & P1	Technip FMC Norway	High Yield F65 Bulkheads, Pawnheads, Tees, Flanges
2019	Callanish Subsea Construction	TechnipFMC UK	Super Duplex F55 Flanges & Fittings
2019	Total Zinia Phase 2	Subsea 7 UK	Super Duplex F53/F55 Flanges
2019	Shell Pierce B5	TechnipFMC UK	High Yield F65 Pipe, Forged Fittings & Flanges
2019	Total Tyra	Boskalis UK	High Yield F65 Compact Flanges with Seal Rings - Main Caisson Bulkhead Forgings.
2019	Chevron T.V.E.X.	Cortec/EDG USA	High Yield F65 Pipe, Forged Fittings & Flanges
2019	Energiean Tanin & Karish	TechnipFMC UK	High Yield F65 + Inconel 625 Weld Necks, Barred Tees and BW Fittings
2019	BP Chirag	TechnipFMC UK	ASTM A694 F65 Bend Stiffener Connector
2019	Exxon Mobil Barzan	Saipem Italy	High Yield F65 + Inconel 625 Weld Neck, Blinds & Swivels and BW Fittings
2019	ENI Merakes	TechnipFMC Malaysia	High Yield F65 + Inconel 625 Clad Compact Flanges, BW Fittings, Stud Bolts & Seals
2019	Ithaca Vorlich	TechnipFMC UK	Super Duplex F55 Flanges & Fittings
2019	Fieldwood Katmai	EDG USA	High Yield F65 + Inconel 625 Clad Compact Flanges, BW Fittings, Stud Bolts & Seals
2019	Centrica ODA	Subsea 7 Norway	High Yield F65 + Inconel 625 Clad Compact Flanges, BW Fittings, Stud Bolts & Seals
2019	Fieldwood Katmai	Subsea 7 Houston	High Yield F65 c/w with Inconel 625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel 625 Seal Rings & Gaskets
2019	BP A.C.E.	BP Exploration Ltd c/o KBR	High Yield F65 + Inconel 625 Weld Neck, Blinds & Swivels
2019	Equinor Peregrino Phase II	TechnipFMC Brazil	High Yields F65 Pawn Heads
2019	Spirit Chestnut P3 Acid Wash 2019	Subsea 7 UK	Super Duplex F55 Flanges & Fittings
2019	Repsol Bleo Holm	TechnipFMC UK	High Yield F65 Bend Stiffener Connector
2019	BP Atlantis	TechnipFMC USA	Anchor Forgings/ASTMA 694 F70 Anchor Forgings
2019	DSVI DANA 2" Gas Lift Spools	Subsea 7 UK	High Yield F65 Fittings & Flanges

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Year	Project	Client	Product Supplied
2018	Apache Storr	Subsea 7 UK	High Yield F65 c/w with Inconel625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel625 Seal Rings & Gaskets
2018	Shell Shearwater	Subsea 7 UK	Super Duplex F55 Flanges & Fittings
2018	Wintershall D12B	Wintershall	High Yield F65 Flanges and Fittings
2018	Zenorr Finlaggen	TechnipFMC USA	High Yield F65 c/w with Inconel625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel625 Seal Rings & Gaskets
2018	Conoco Phillips/Brodgar	TechnipFMC UK	High Yield F65 c/w with Inconel625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel625 Seal Rings & Gaskets
2018	Noble Leviathan	TechnipFMC USA	High Yield F65 Flanges and Forged Components
2018	Ithaca Vorlich	TechnipFMC Aberdeen	Super Duplex F55 Flanges & Fittings
2018	Shell Gannett Export	TechnipFMC Aberdeen	Duplex F51 & High Yield CS F65 Inconel Clad Flanges & BW Fittings
2018	Ithaca Cook W.I.	Subsea 7 UK	Duplex F51 & High Yield CS F65 Inconel Clad Flanges & BW Fittings
2018	Shell Penguins	Subsea 7 UK	Duplex F51 & High Yield CS F65 Inconel Clad Flanges & BW Fittings
2018	Nexen Buzzard II	Subsea 7 UK	High Yield F65 Main Bundle Bulkheads
2018	BP Aquarius	Geocean S.A.S France	ASTMA 694 F70 Anchor Forgings
2018	Shell Penguins	Subsea 7 UK	High Yield F65 Main Bundle Bulkheads
2018	Shell Fram	TechnipFMC UK	High Yield F65 c/w with Inconel625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel625 Seal Rings & Gaskets
2018	Equinor Utgard and Bauge	TechnipFMC Norway	High YieldF65 & Super Duplex F55 Special Forgings, PIP Bulkheads
2018	WHO DAT	TechnipFMC USA	Alloy F22M HUB Forgings & Tees
2018	Burullus 9B	Subsea France	Duplex F51 & High Yield CS F65 Inconel Clad Flanges & BW Fittings
2018	BP Alligin	Subsea 7 UK	Duplex F51 & High Yield CS F65 Inconel Clad Flanges & BW Fittings
2018	Tullow T.E.N.	Enpro Subsea UK	High Yield F65 c/w with Inconel625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel625 Seal Rings & Gaskets
2018	BP Mad Dog II	TechnipFMC USA	High Yield F65 Flanges and Forged Components
2018	LLOG Buckskin	TechnipFMC USA	ASTMA 694 F70 Anchor Forgings
2018	Nexen Golden Eagle	Subsea 7 UK	Duplex F51 & High Yield CS F65 Inconel Clad Flanges & BW Fittings
2018	Equinor Snorre	Subsea 7 UK	Super Duplex F55 Fittings & High Yield F65
2018	Aker BP Norge, Skogul	Subsea 7 Norway	Flanges, Gaskets, Stud Bolts, Bulkheads
2018	Premier B3 Spool Rectification	Subsea 7 UK	High Yield F65 Fittings & Flanges
2018	Decipher Orlando	TechnipFMC, UK	High Yield F65 Pipe in Pipe Bulkheads, Flanges and Test Rings
2018	DSVi - Chevron Captain	Subsea 7 UK	High Yield F65 Flanges & Fittings
2018	Equinor Snorre	Subsea 7 UK	High Yield F65 Main Bundle Bulkheads
2018	Shell Brent Bypass II	Subsea 7 UK	High Yield F65 c/w with Inconel625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel625 Seal Rings & Gaskets
2018	Excelerate Energy Summit	Geocean S.A.S	High Yield F65 + Inconel625 Clad Compact Flanges, BW Fittings, Stud Bolts & Seals
2018	BP Shah Deniz II	BP Global - KBR	High Yield F65 J-Lay Hang-Off Collars
2018	BP West Nile Delta - GFR	Subsea 7 UK	High Yield F65 Weld Neck Flange, Blind Flange, Gaskets & Studbolts
2018	Apache Callater Field Development	Subsea 7 UK	Super Duplex F55 Flanges, Fittings, StudBolts and Gaskets

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Year	Project	Client	Product Supplied
2017	Tullow T.E.N.	Enpro Subsea UK	High Yield Carbon Steel AISI 4130 & F65 Material Special Connector Forgings
2017	Shell UK Brent Field GEP	Subsea 7 UK	High Yield F65 c/w with Inconel 625 overlay Clad and Super Duplex SA182 F55 API & Norsok L-005 Compact Weld Neck & Swivel Ring Flanges , BW Fittings including Barred Tees, Inconel 625 Seal Rings & Gaskets
2017	Cooper Energy Sole Development Project	SUBSEA 7, Australia	High Yield F65 Flanges and Fittings
2017	Shell Gannet E	TechnipFMC, UK	High Yield F65 & F55 Linepipe, Flanges, Tees, Elbows and Test Rings
2017	Ineos Clipper South Re-Route	TechnipFMC, UK	High Yield F65 Flanges and Forged Components
2017	Statoil Heidrun	TechnipFMC, Norway	High Yield F65 & F55 Reelable Bulkheads and Pawnheads
2017	Harrier Field Development	TechnipFMC UK	Bulkheads 25 Cr Super Duplex, Flanges A182 F55, Pigging Heads F65 and Test Rings
2017	Premier Catcher Burgman DCT 2	SUBSEA 7 UK	High Yield F65 & F55 Flanges
2017	Decipher Orlando	Technip FMC UK	ASTM A694 F65 Bend Stiffener Connector and C Plate
2017	LLOG Crown & Anchor	ENPRO SUBSEA UK	High Yield Carbon Steel AISI 4130 & F65 Material Special Connector Forgings
2017	Chevron T.V.E.X.	MRC GLOBAL	Duplex F51 Special Fittings
2017	Woodside Petroleum Greater Enfield Subsea	TechnipFMC Oceania PTY	FLET/ILT/PLR - High Yield F65 + Inconel 625 clad and Super Duplex F55 Special Forgings
2017	Excelerate Energy Summit	Geocean S.A.S	High Yield F65 + Inconel 625 Clad Compact Flanges
2017	Anadarko Constellation	TechnipFMC USA	ASTMA 694 F70 Anchor Forgings
2017	Centrica Chestnut Infill	Subsea 7 UK	Duplex F51 & High Yield CS F65 Inconel Clad Flanges & BW Fittings
2017	Shell Kaikias Flowline Installation	TechnipFMC USA	ASTM A182 F22M & A707 L5 F70 Taper Stress Joints, Tees & Flanges
2017	Excelerate Energy Moheshkhali LNG	Geocean S.A.S	High Yield F65 + Inconel 625 Clad Compact Flanges, BW Fittings, Stud Bolts & Seals
2017	Repsol Shaw Water Injection	SUBSEA 7 UK	Super Duplex F55 Flanges & Fittings
2017	LLOG Crown & Anchor	TechnipFMC USA	High Yield F65 Anchor Forgings, Bareed Tees and Weld Coupons
2017	Statoil Johan Sverdrup Export Pipeline Installation	Saipem UK	High Yield F65 Hot Tap Tee and Pulling Heads
2017	BP ODA tie-in to Ula	Aker Solution AS, Norway	High Yield F65 Inconel 625 clad Bulkheads & Anchor Flanges
2017	Mellitah Bahr Essalam	TechnipFMC UK	High Yield F65 Reelable Bulkhead Forgings, Flanges, Pawn Heads & Installation Aids
2017	BP West Nile Delta - GFR	Teledyne Marine	Duplex F51 Forgings & High Yield CS F65 Inconel Clad Forgings
2017	Chevron T.V.E.X.	CSM - Cortec USA	High Yield A694 F60 Forged Valve Bodies

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