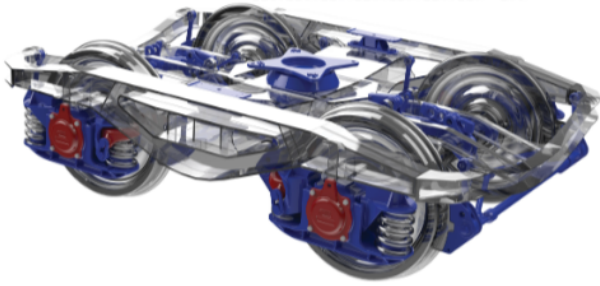




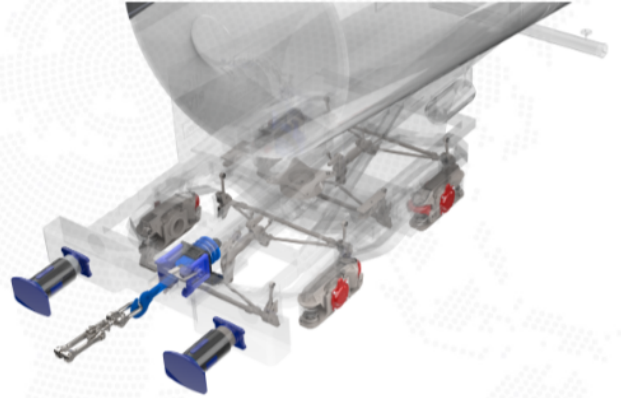
Impressive CV Spare Parts

RAILWAY PARTS

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BOGIE PARTS



WAGON PARTS

Railway Parts

**Wide Ra
Products and**

VAGON PARÇALARI

Home > Grup Şirketlerimiz > Vagon Parçaları

Automotive

FORGING/CASTING

Railex

Cymac



DRAW HOOK

(TSI Certified)

(1000/1200/1500 kN)



DRAW GEAR

(TSI Certified)

(1000/1500 kN)



SCREW COUPLING

(TSI Certified)

(850/1000/1350 kJ)



BUFFER

(TSI Certified)

Cat.A 105 Stroke

(30/35/40 kJ)



HAMMER



ROPE HOOK



LIFTING BASE



JOINT PIN



RIGHT-LEFT PIVOT BEARING

(TYPE - A)



RIGHT-LEFT PIVOT BEARING

(TYPE - B)

BOJI PARÇALARI

Home > Grup Şirketlerimiz > Boji Parçaları

Automotive

FORGING/CASTING

Raillex

Cymac



SIDE BEARER LOWER



LOWER PIVOT



BRAKE TRIANGLE



SPRING CUP

(FORGING)



COVER



AXLE BEARING BOX



TOW BAR



SPRING CUP



DRAFT STOP



CONNECTION BAR



BRAKE LEVER



PLUNGER

BOGIE PARTS



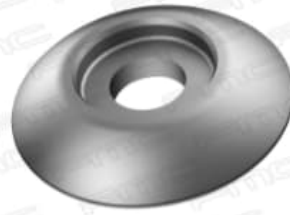
BRAKE TRIANGLE

(ORTADAN ASMALI)



BRAKE TRIANGLE

(TEPEDEN ASMALI)



PIVOT FILLER



SPRING BEARER

(WITHOUT SENSOR)



PIVOT FILLER

(FORGING)



EYE



SPRING SHACKLE



SPRING BEARER

(WITH SENSOR)



SUSPENSION LINK

(RECTANGULAR)



SUSPANSION LINK

(OVAL)



GUIDE



BRAKE BLOCK HOLDER



BOGIE PARTS



INTERMEDIATE BEARING



BEARING STONE



COUPLING MUFF CONNECTION



UPPER PIVOT



PISTON HEAD



PISTON ARM



BRAKE BLOCK HOLDER

Railcar Parts

Screw Coupling



Main Product Types

1350 kN Screw Coupling
 1000 kN Screw Coupling
 850 kN Screw Coupling

STANDARD: UIC/ERRI UIC 826, UIC 583, UIC 520, EN 15566 and TSI.

Manufacturing Potential

Weight range : 0,5-60 kg

Machining:

Cutting on conventional and CNC machines
 Cutting on single-purpose machines thread rolling

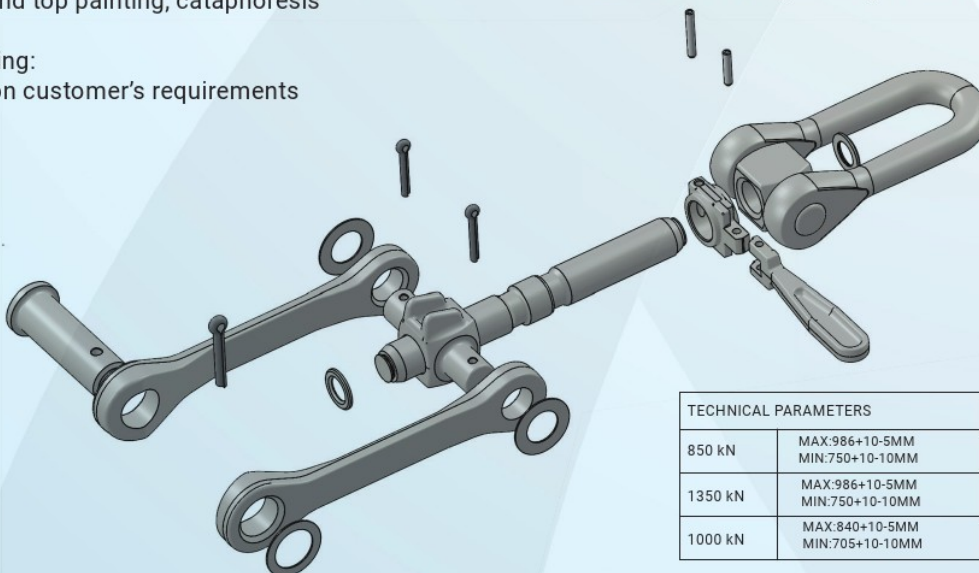
Surface treatment:

Blasting
 Sand blasting
 Prime and top painting, cataphoresis

Packaging:

Based on customer's requirements

- Screw coupling parts are made by die forging and subsequent heat treatment.
- Fabrication of individual parts is done on conventional and single-purpose machines
- Thread on spindle is made by machining.
- Testing is performed in company mechanical and metallographic test room.
- Painting: based on customers requirements, cataphoresis
- Packaging: based on customers requirements
- Manufacturing and testing inspected by quality control system certified according to **EN ISO 9001:2015**
- Obtained certificates: **EN-15566 (TSI), ÖBB, SNCF, TULOMSAS, TUDEMSAS**
- There is no welding process by washer and lock washer cold press fitting is implemented.
- NDT Material Engineering-UT Level-2



TECHNICAL PARAMETERS

850 kN	MAX:986+10-5MM MIN:750+10-10MM	36 KG
1350 kN	MAX:986+10-5MM MIN:750+10-10MM	37,5 KG
1000 kN	MAX:840+10-5MM MIN:705+10-10MM	35 KG

Railcar Parts

Side Bearer Lower - Upper Parts



Lower Part



Upper Part



Side Bearer

Main Product Types

Die forgings
Hot stampings
Cold stampings
Machined parts
Assemblies

Manufacturing Potential

Weight range : 0,5-60 kg

Machining:

Cutting on conventional and CNC machines
Cutting on single-purpose machines thread rolling

Surface treatment:

Blasting
Sand blasting
Prime and top painting, cataphoresis

Packaging:

Based on customer's requirements

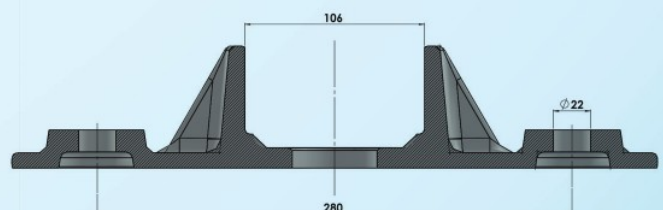
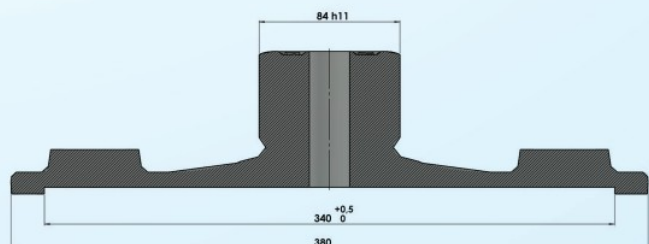
QUALITY CONTROL

Quality control system certified according to EN ISO 9001:2015
Purchase of materials from certified manufacturers
Material receiving inspection
Product in-process inspection

Mechanical tests performed in company test room
Hardness HB, HV, HRC
Tensile test
impact test
Non-destructive tests

Metallographic tests in company test room
Macrostructure evaluation
Microstructure evaluation
Grain

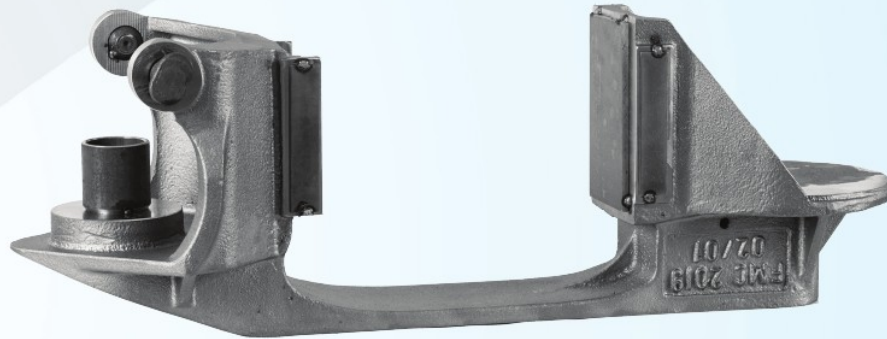
- Surface defect inspection by magnetoflux, die penetrant methods
- Material substitution inspection, chemical composition analysis (22 elements)
- Final inspection according to EN standards
- Statistical acceptance
- Obtained certificates: **OBB, SNCF, TULOMSAS, TUDEMSAS**



Rail Car Parts Buatagres

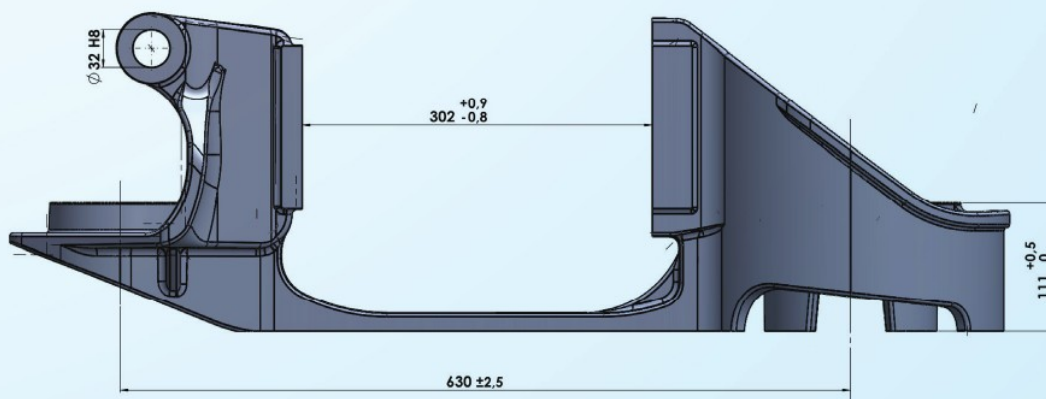


Rail Car Parts Spring Bearer



- The part is supplied and tested in accordance with UIC 583, DIN 5651, BN 918 440
- Manufacture is controlled by the quality management system certified according to EN ISO 9001:2015
- Painting: based on customer's requirement, blasted, primed and top coated to ensure a cataphoresis.
- Packaging: based on customer's requirement
- Obtained certificates: **ÖBB, SNCF, TULOMSAS, TUDEMSAS**

The part is supplied as an assembly of machined casting with encased apertures, including Pin, Bush, Inner Spring Guide, Outer Spring Guide, Side Plate, Front Plate



Rail Car Parts

Twin Axle Bogie Parts - Brake Triangle

Main Product Types

- Die forgings
- Hot stampings
- Cold stampings
- Machined parts
- Assemblies

Manufacturing Potential

Weight range : 0,5-60 kg

Machining:

cutting on conventional and CNC machines

Surface treatment:

- Blasting
- Sand blasting
- Prime and top painting, cataphoresis

Packaging:

Based on customer's requirements

QUALITY CONTROL

- Quality control system certified according to EN ISO 9001:2015
- Purchase of materials from certified manufacturers
- Material receiving inspection
- Product in-process inspection

Mechanical tests performed in company test room

Hardness HB, HV, HRC

Tensile, yield test

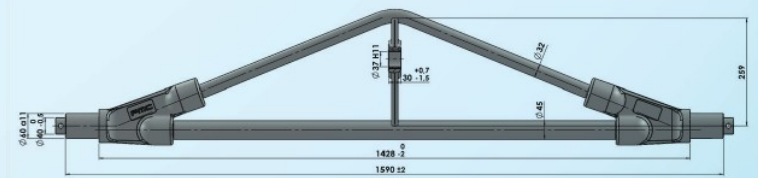
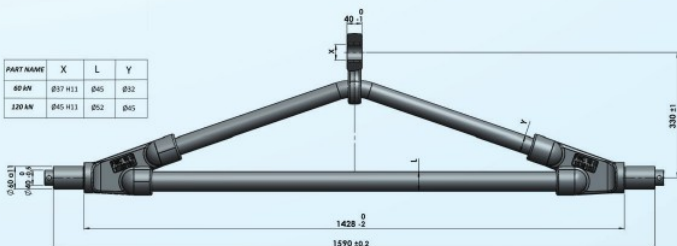
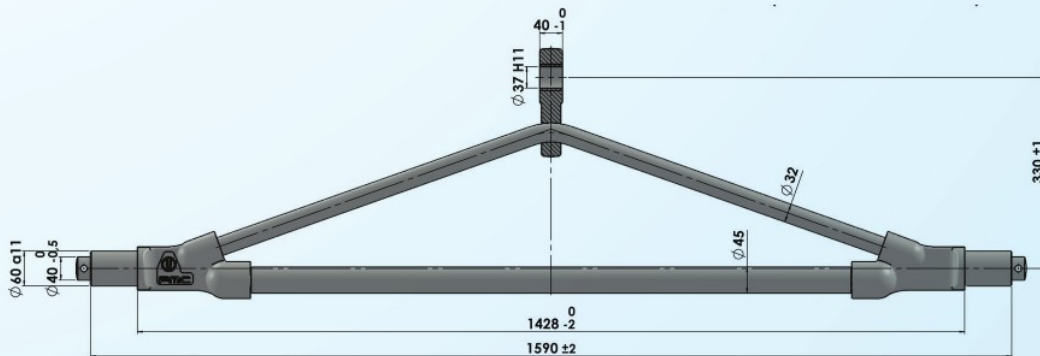
Impact test

Non-destructive tests (MT) Level 2

- Metallographic tests in company test room
- macrostructure evaluation
- microstructure evaluation
- grain

- Surface defect inspection by magnetoflux, die penetrant methods
- Material substitution inspection, chemical composition analysis (22 elements)
- Final inspection according to EN standards
- Statistical acceptance

- Obtained certificates: **TULOMSAS, TUDEMSAS**

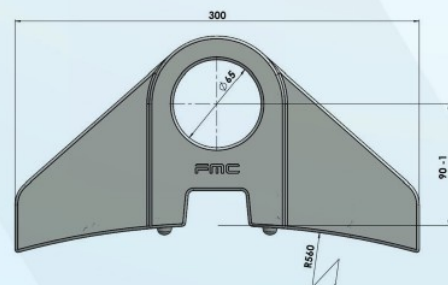
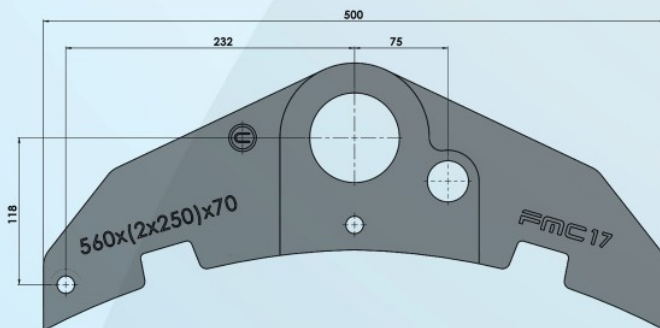


Rail Car Sub-Assembly Parts

Brake Block Holder



- Brake Shoe Holder: After the brake blocks are secured with keys in the brake shoe holder, the brake shoe transmits braking force to the freight car wheels.
- The part is supplied as an assembly of machined casting with encased apertures, including wheel key and spring pin for one or two cast-iron or composite brake blocks.
- The part is supplied and tested in accordance with UIC 583, DIN 5651, BN 918 440
- Manufacture is controlled by the quality management system certified according to EN ISO 9001:2015
- Painting: based on customer's requirement, blasted, primed and top coated to ensure a cataphoresis.
- Packaging: based on customer's requirement
- Casting-weight:13 kg
- Obtained certificates:**OBB, SNCF, TULOMSAS, TUDEMSAS**



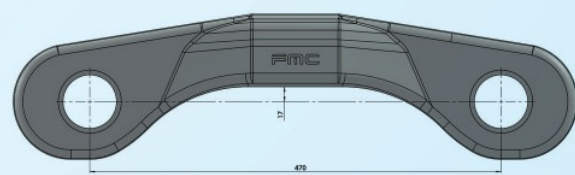
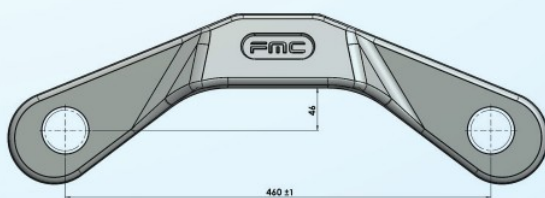
Railcar Subassembly Parts

Brake Lever Bridge



For Y25 (BA 628/629) bogies are used different types of connection bars on brake riggings are used:

- Type UIC according the drawing 100 M3321 0019, having the vertical distance between the holes axis and bottom surface of 17 mm/46 mm.
- The connection bar 17/46 mm could be used in all bogie types Y25
- Obtained certificates: **OBB, SNCF, TULOMSAS, TUDEMSAS**



Rail Car Parts

Twin-Axle Bogie Parts- Brake Lever



Main Product Types

Die forgings
Hot stampings
Cold stampings
Machined parts
Assemblies

Manufacturing Potential

Weight range : 0,5-60 kg

Machining:

- cutting on conventional and CNC machines
- cutting on single-purpose machines
- thread rolling

Surface treatment:

- blasting
- sand blasting
- prime and top painting, cataphoresis

Packaging:

- based on customer's requirements

QUALITY CONTROL

- Quality control system certified according to EN ISO 9001:2015
- Purchase of materials from certified manufacturers
- Material receiving inspection
- Product in-process inspection

Mechanical tests performed in company test room

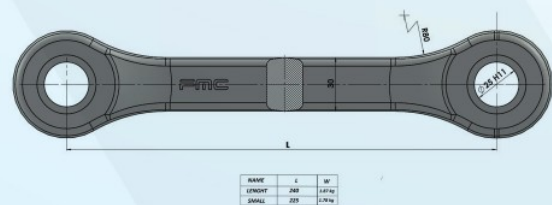
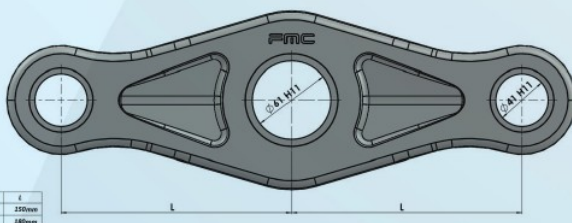
hardness HB, HV, HRC
tensile test
impact test
non-destructive tests

- Metallographic tests in company test room
- Macrostructure evaluation
- Microstructure evaluation
- Grain

- Surface defect inspection by magnetoflux, die penetrant methods
- Material substitution inspection, chemical composition analysis (22 elements)
- Final inspection according to EN standards
- Statistical acceptance

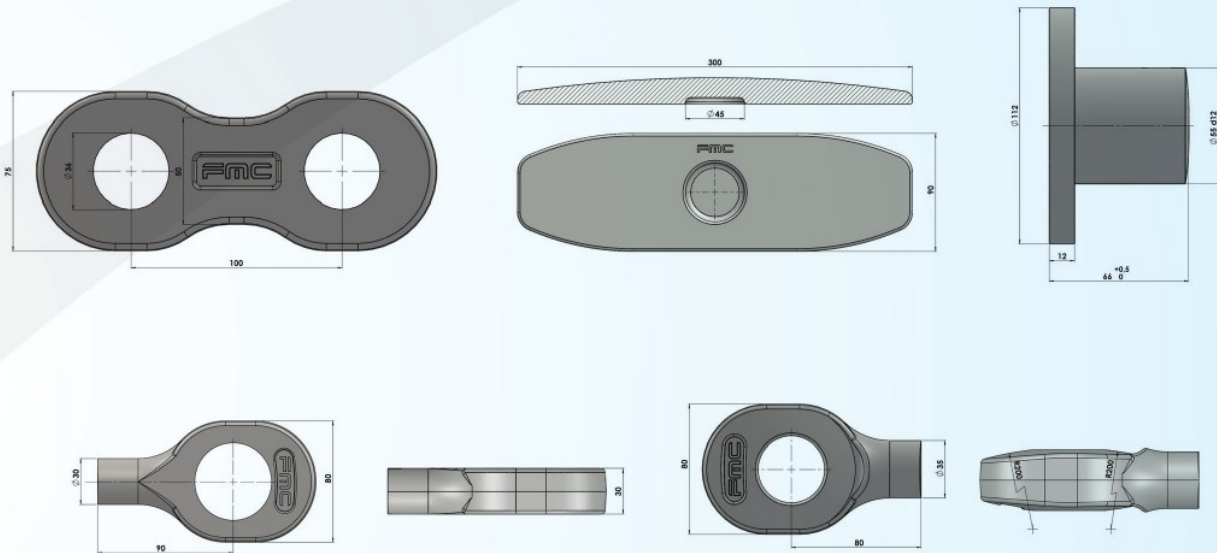
Obtained certificates:

OBB, SNCF, TULOMSAS, TUDEMSAS



Rail Car Parts

Twin Axle Bogie Parts



Main Product Types

Die forgings
Hot stampings
Cold stampings
Machined parts
Assemblies

Manufacturing Potential

Weight range : 0,5-60 kg

Machining:

cutting on conventional and CNC machines
cutting on single-purpose machines thread rolling

Surface treatment:

Blasting
Sand blasting
Prime and top painting, cataphoresis

Packaging:

Based on customer's requirements

QUALITY CONTROL

Quality control system certified according to EN ISO 9001:2015
Purchase of materials from certified manufacturers
Material receiving inspection
Product in-process inspection

Mechanical tests performed in company test room

Hardness HB, HV, HRC

Tensile test

Impact test

Non-destructive tests

Metallographic tests in company test room

Macrostructure evaluation

Microstructure evaluation

Grain

- Surface defect inspection by magnetoflux, die penetrant methods
- Material substitution inspection, chemical composition analysis (22 elements)
- Final inspection according to EN standards
- Statistical acceptance
- Obtained certificates: **OBB, SNCF, TULOMSAS, TUDEMSAS**

Rail Car Parts

Twin Axle Bogie Parts

Main Product Types

Die forgings
Hot stampings
Cold stampings
Machined parts
Assemblies

Manufacturing Potential

Weight range : 0,5-60 kg

Machining:
cutting on conventional and CNC machines
cutting on single-purpose machines
thread rolling

Surface treatment:
blasting
sand blasting
prime and top painting, cataphoresis

Packaging:
based on customer's requirements

QUALITY CONTROL

Quality control system certified according to EN ISO 9001:2015

Purchase of materials from certified manufacturers
Material receiving inspection
Product in-process inspection

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tensile test
impact test
non-destructive tests

Metallographic tests in company test room
macrostructure evaluation
microstructure evaluation
grain

Surface defect inspection by magnetoflux, die penetrant methods

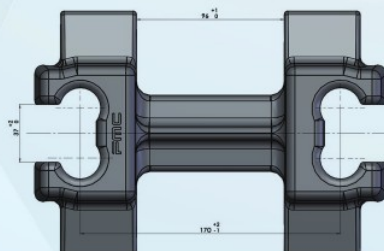
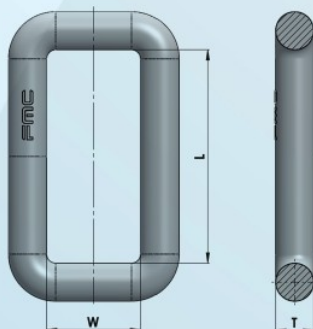
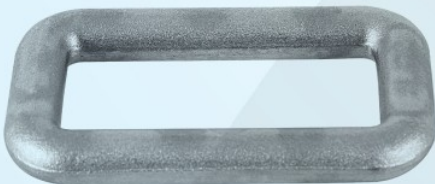
Material substitution inspection, chemical composition analysis (22 elements)

Final inspection according to EN standards

Statistical acceptance

Obtained certificates: OBB, SNCF, TULOMSAS, TUDEM-SAS

Link



Double Stone

TSI CERTIFICATE / EN-15566 STANDARD

Conformity Certificate according to EN Standard

Certificate Number: 1370/5/ISP/16/RST/EN/271

Object of Assessment	Screw coupling Drawing FMC RS16.00.SC.00.01 – Assembly Drawing - rev. A - of 02/02/2017
Manufacturer	FMC Hydraulic Konya Organize Sanayi Ulukavak Sk. No:5 Konya / Turkey
Manufacturing Location	FMC Hydraulic Konya Organize Sanayi Ulukavak Sk. No:5 Konya / Turkey
Assessment Requirements	EN 15566:2016 – §§ 4, 6, Annexes A, D, F and H Railway Application – Railway rolling stock – Draw gear and screw coupling
Assessment Result	The Object of Assessment as identified above was shown to comply with the Assessment Requirements, subject to any restrictions and conditions as listed below. The Assessment Results of the design phase are provided in detail within the below referred Assessment Report.
Restrictions/ Conditions	<ul style="list-style-type: none">- Minimum breaking load: 1,35 MN- Lifecycle according to table A.3 of EN 15566:2016: 30 years- Coupling link material: 41Cr4 steel- Drawings list:<ul style="list-style-type: none">• Dwg. FMC RS16.00.SC.00.02 – Screw Coupling Assembly Drawing Part List - rev. A - of 02/02/2017• Dwg. FMC RS16.00.SC.01.02(MC) – Coupling Hook Pin (Machined Part) – rev. 0 - of 11/05/2016• Dwg. FMC RS16.00.SC.02.02(MC) – Coupling Link (Machined Part) – rev. A - of 09/01/2017• Dwg. FMC RS16.00.SC.03.01(MC) – Screw (Machined Part) – rev. 0 - of 11/05/2016• Dwg. FMC RS16.00.SC.04.02(MC) – Trunnion for ball handle (T-bar) (Machined Part) – rev. 0 - of 11/05/2016• Dwg. FMC RS16.00.SC.05.02(MC) – Trunnion for ball handle (T-bar) with top-mounted rest (Machined Part) – rev. 0 - of 11/05/2016• Dwg. FMC RS16.00.SC.06.02(MC) – Handle (T-bar) Housing (Machined Part) – rev. 0 - of 11/05/2016• Dwg. FMC RS16.00.SC.07.02(MC) – Hinged Handle (T-bar) (Machined Part) – rev. 0 - of 11/05/2016• Dwg. FMC RS16.00.SC.08.03(FR) – D-Shackle (Forged Part) – rev. 0 - of 11/05/2016• Dwg. FMC RS16.00.SC.10.01(MC) – Lock Washer - rev. 0 – of 29/04/2016• Dwg. FMC RS16.00.SC.11.01(MC) – Washer - rev. 0 – of 05/05/2016• Dwg. FMC RS16.00.SC.12.01(MC) – Washer - rev. 0 – of 06/05/2016 <p>The object of the assessment is able to satisfy air temperature range class T2 reported into TSI-WAG Regulation 321/2013 par. 4.2.5</p>
Assessment Report	BVT.HOOK4/OR43/16 Doc. Type AS/02 Revision 4.0 The report of the Assessor is an integral part of this Certificate.



SGQ N° 005A SGE N° 009M
SGA N° 008D EMAS N° 004P
PRD N° 009B GHG N° 008O
SCR N° 008F ISP N° 006E
FSMS N° 003I SSI N° 013G
PRS N° 076C

Membro degli Accordi di Mutuo Riconoscimento EA e IAF
Signatory of EA and IAF mutual Recognition Agreements



**BUREAU
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Bureau Veritas Italia S.p.A.

Head Office, via P. Imperiale 4, 16126 – Genoa (IT)
Legal Head Office, via Miramare 15, 20126 – Milan (IT)
www.bureauveritas.it

Conformity Certificate according to EN Standard

Certificate Number: 1370/5/ISP/16/RST/EN/270

Object of Assessment	1,5 MN Draw Hook Drawing Code RS16.00.DH.01.01 (MC) Rev. 0
Manufacturer	FMC Hydraulic Konya Organize Sanayi Ulukavak Sk. No:5 Konya / TURKEY
Manufacturing Location	FMC Hydraulic Konya Organize Sanayi Ulukavak Sk. No:5 Konya / TURKEY
Assessment Requirements	EN 15566:2009+A1:2010 – §§ 3,4, Annexes A and D Railway Application – Railway rolling stock – Draw gear and screw coupling
Assessment Result	The Object of Assessment as identified above was shown to comply with the Assessment Requirements, subject to any restrictions and conditions as listed below. The Assessment Results are provided in detail within the below referred Assessment Report.
Restrictions/ Conditions	<ul style="list-style-type: none">- Classification: 1,5 MN- Steel type: 42CrMo4+QT according to EN 10083-3 Standard- Lifecycle according to table 3 of EN 15566:2009+A1:2010: 30 years The object of assessment is able to satisfy air temperature range class T2 reported into TSI-WAG Regulation 321/2013 par. 4.2.5
Assessment Report	BVT.HOOK4/OR43/16 Doc. Type AS/01 Revision 3.0 The report of the Assessor is an integral part of this Certificate.
Validity	The present certificate is valid for the object of the assessment as mentioned above and as long as the draw hook and the relevant technical documentation are not modified. The Assessor must be informed about any modifications without delay.
Date of first issue: 10 th May 2016	Signature: 
Date of current issue: 10 th January 2017	Name: Tommaso Ghiara Title: General Manager



On behalf of Bureau Veritas Italia, Notified Body N° 1370 Directive 2008/57/CE, Via Paolo Imperiale 4 - 16126 Genoa – Italy (I)



SGQ N° 009A PRS N° 076C
SGA N° 008D SGE N° 009M
PRD N° 009B EMAS N° 004P
SCR N° 008F GHG N° 008D
FSMS N° 003I ISP N° 006E

Membero degli Accordi di Mutuo Riconoscimento EA e IAF
Signatory of EA and IAF mutual Recognition Agreements



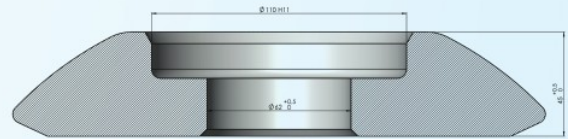
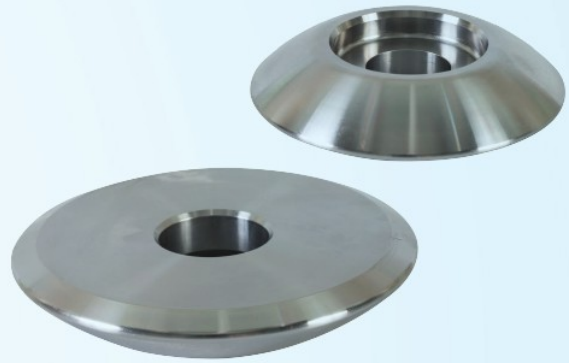
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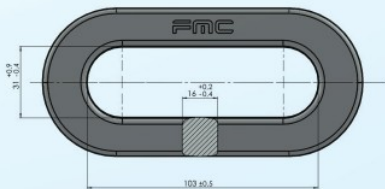
Schakle



Liner



Link



Single Stone

