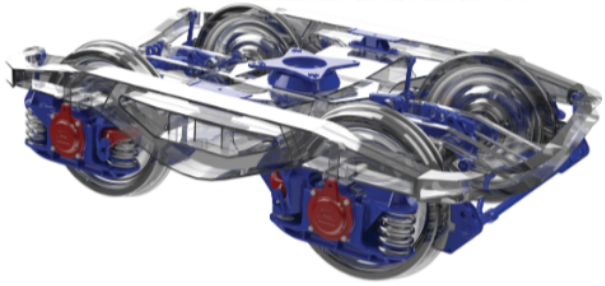
wisGROUP

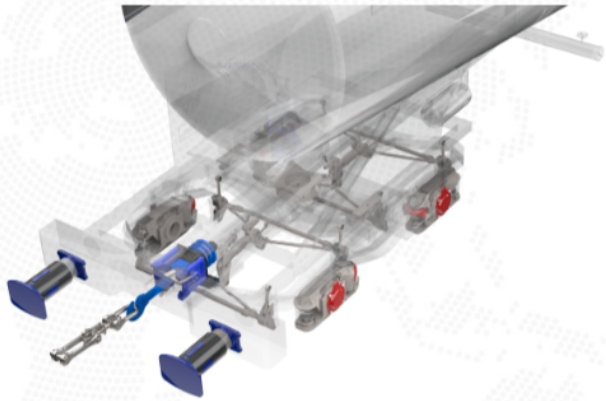
Impressive CV Spare Parts

RAILWAY PARTS

www.**wisgroup**.com.tr



BOGIE PARTS



WAGON PARTS

Railway Parts

Wide Ra
Products and

VAGON PARÇALARI

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

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

BRAKE PARTS

Askı Biyeli
Railex, Fren Sistemi

Fren Manivela Köprüsü
Railex, Fren Sistemi

Fren Manivelası
Railex, Fren Sistemi

Fren Üçgeni
Railex, Fren Sistemi

Göz
Railex, Fren Sistemi

Gözlük
Railex, Fren Sistemi

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

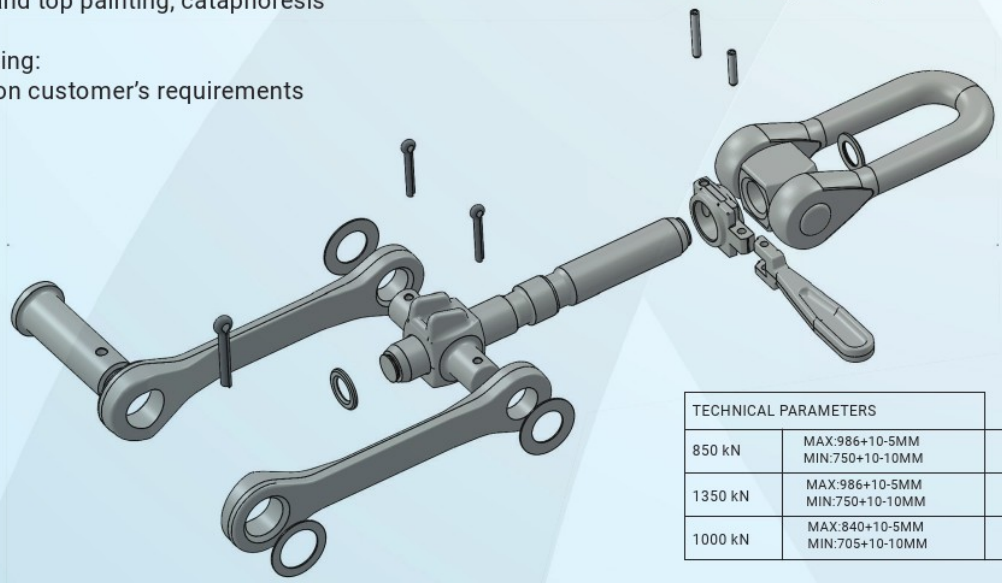
Weight range : 0,5-60 kg

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



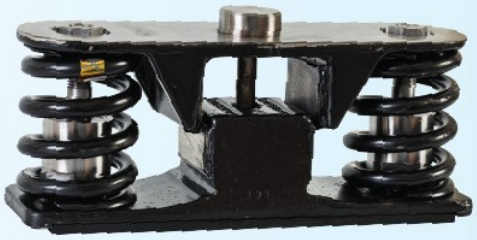
TECHNICAL PARAMETERS		
850 kN	MAX:986+10-5MM MIN:750+10-10MM	36 KG
1350 kN	MAX:986+10-5MM MIN:750+10-10MM	37,5 KG
1000 kN	MAX:840+10-5MM MIN:705+10-10MM	35 KG

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

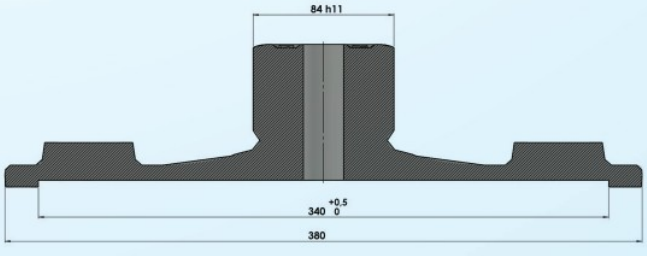
Packaging:
Based on customer's requirements

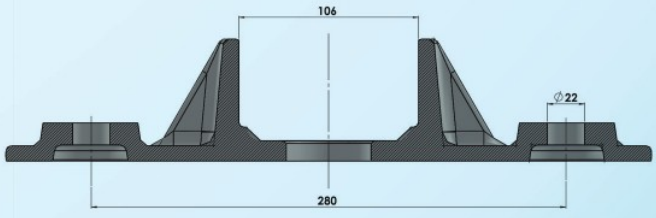
QUALITY CONTROL
Quality control system certified according to
EN ISO 9001:2015
Purchase of materials from certified manufacturers
Material receiving inspection
Product in-process inspection

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

Metallographic tests in company test room
Macrostructure evaluation
Microstructure evaluation
Grain

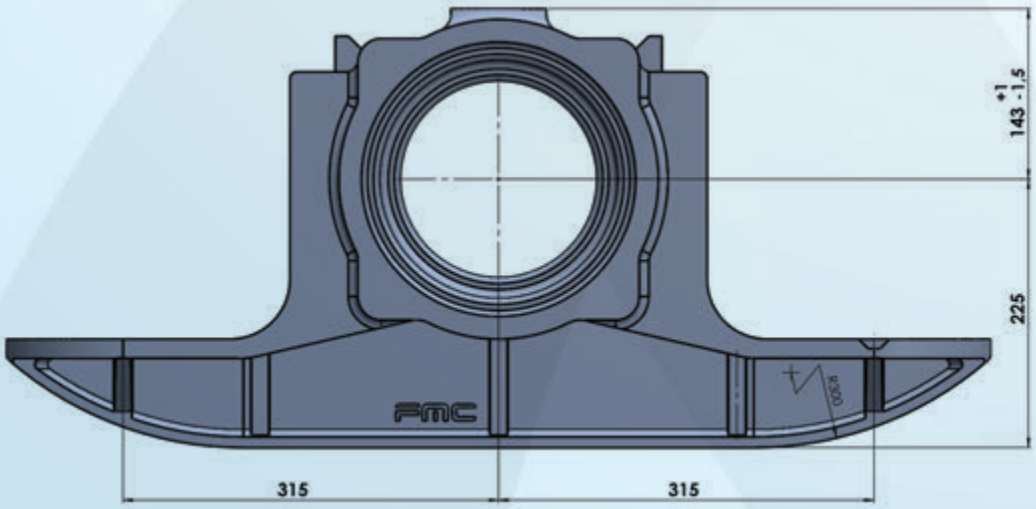
- Surface defect inspection by magnetoflux, die penetrant methods
- Material substitution inspection, chemical composition analysis (22 elements)
- Final inspection according to EN standards
- Statistical acceptance
- Obtained certificates:**OBB, SNCF, TULOMSAS, TUDEMSAS**





Rail Car Parts
AXLE BOX

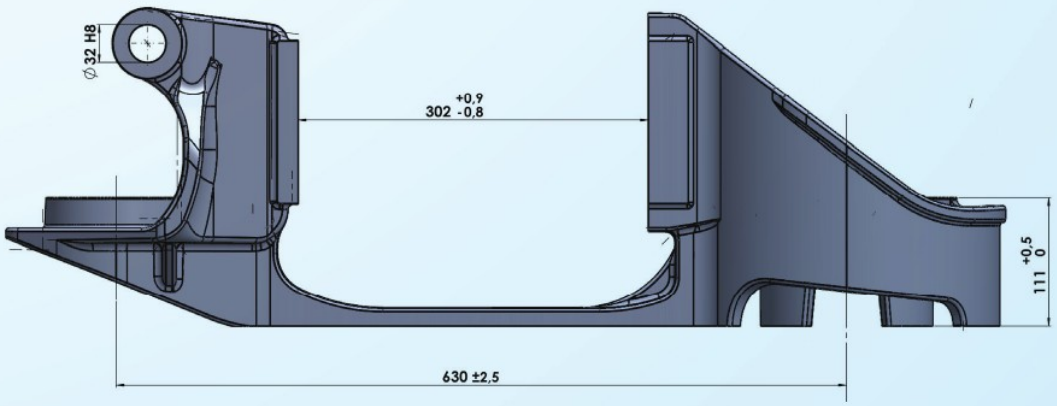
- Used for freight wagons, locomotives and special vehicles and bogies.
- The part is supplied as an assembly of machined casting with encased apertures, including wheel key and spring pin for one or two cast-iron or composite brake blocks.
- The part is supplied and tested in accordance with UIC 583, 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
- Obtained certificates: **SNCF, TULOMSAS, TUDEMSAS**
- The part is supplied as an assembly of machined casting with encased apertures, including Labyrinthring, spring guide, manganium plate, bolt M16x40 ISO 4017,washer,seal ring.



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,Outher Soring Guide, Side Plate, Front Plate



Railcar Parts
DRAW BAR

Main Product Types
Die forgings
Hot stampings
Machined parts
Assemblies

Manufacturing Potential
Weight range : 0,5-50 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

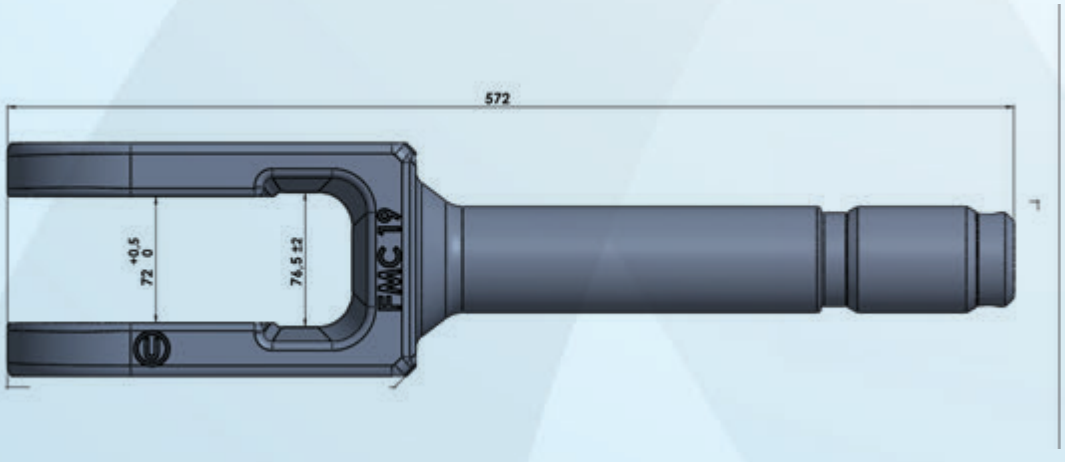
Packaging:
Based on customer's requirements

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
DRAW HOOK - DRAW GEAR

Draw Hook With Eye - UIC/ERRI Type

Material, manufacture, heat treatment, testing, acceptance and delivery comply with UIC 825, UIC 583, UIC 520, TL 918272.

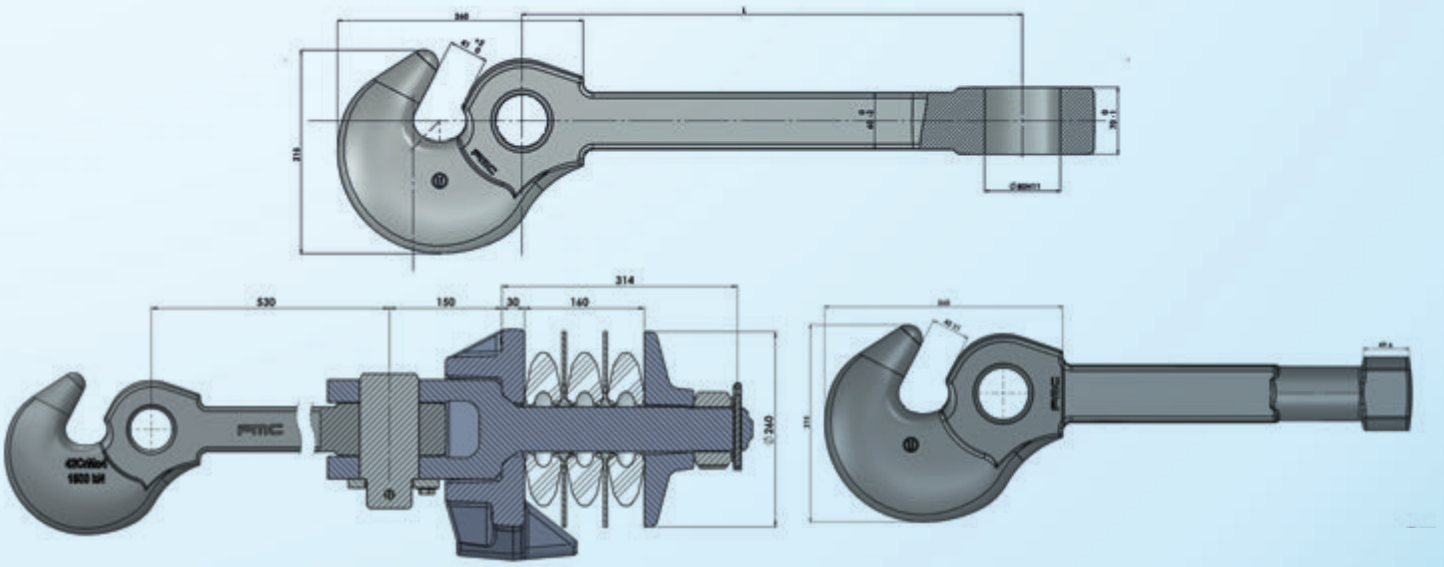
*The manufacturer provides 2-year guarantee.

Hook head : According to drawing UIC/ERR1100 M 3211

Minimum strength equal to force at fracture : 1000 kN – 1200 kN – 1500 kN

- Draw hook with eye of UIC/ERRI type is made by die forging and subsequent heat treatment.
- Fabrication is done on conventional machines.
- Testing is performed in company mechanical and metallographic test room.
- Painting: based on customer's requirements, cataphoresis.
- Packaging: based on customer's requirements
- Manufacturing and testing inspected by quality control system certified according to EN ISO 9001:2015
- Obtained certificates: **EN-15566 (TSI),OBB,SNCF,TULOMSAS,TUDEMSAS**

NDT Material Engineering UT (Level 2)



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

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

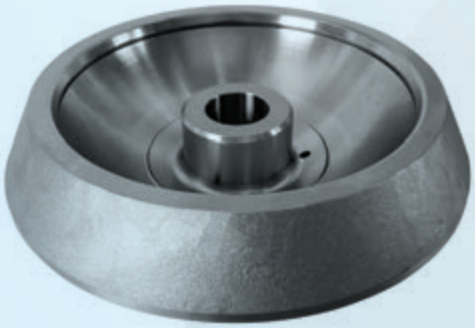
Mechanical tests performed in company test room
Hardness HB, HV, HRC
Tensile, yield test
Impact test -20°/+20 min 27j
Non-destructive tests (MT) Level 2

- 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

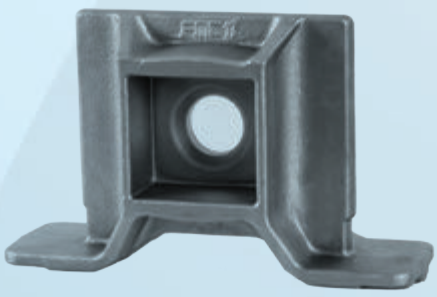
- Obtained certificates: **OBB,SNCF,TULOMSAS,TUDEMSAS**

Lower Pivot

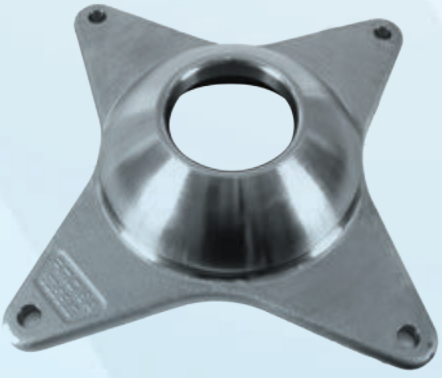


Back-Up Ring

Support



Upper Pivot



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

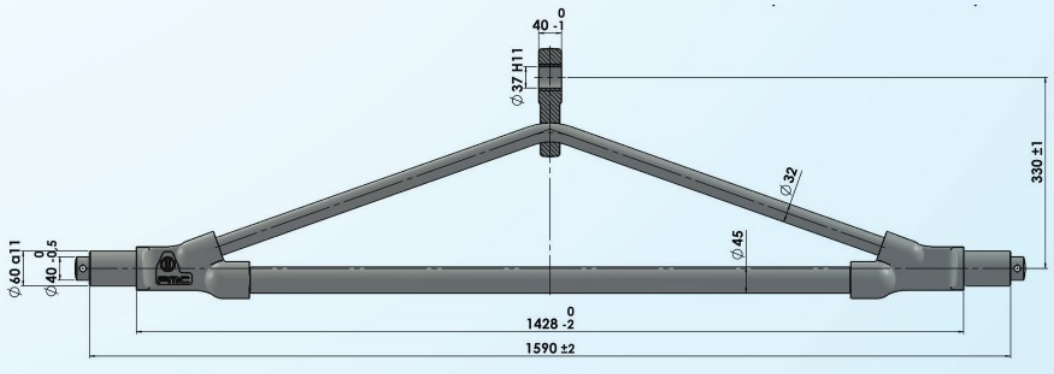
QUALITY CONTROL
- Quality control system certified according to EN ISO 9001:2015
- Purchase of materials from certified manufacturers
- Material receiving inspection
- Product in-process inspection

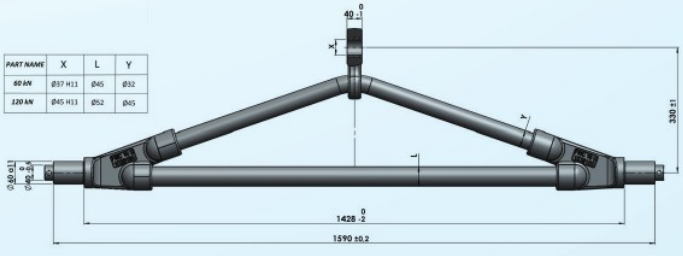
Mechanical tests performed in company test room
Hardness HB, HV, HRC
Tensile, yield test
Impact test
Non-destructive tests (MT) Level 2

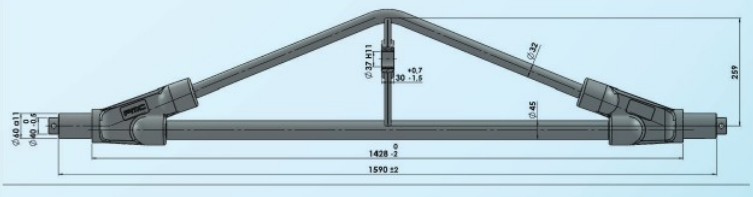
- Metallographic tests in company test room
- macrostructure evaluation
- microstructure evaluation
- grain

- 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**

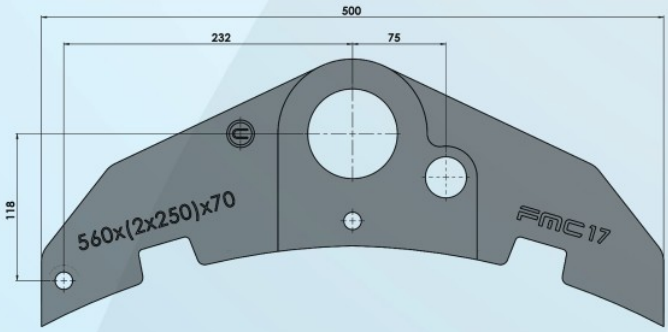


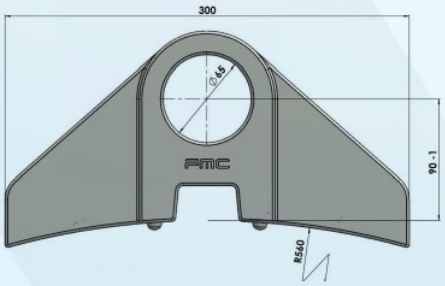




Rail Car Sub-Assembly Parts
Brake Block Holder

- 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**

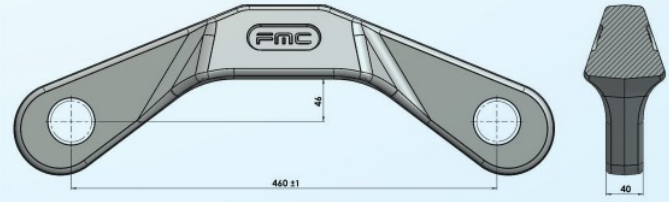


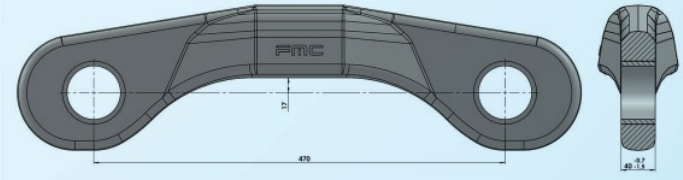


Railcar Subassembly Parts
Brake Lever Bridge

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

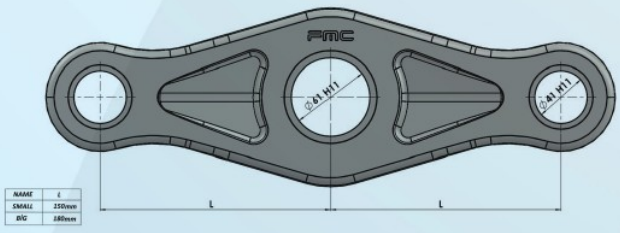
QUALITY CONTROL
• Quality control system certified according to EN ISO 9001:2015
• Purchase of materials from certified manufacturers
• Material receiving inspection
• Product in-process inspection

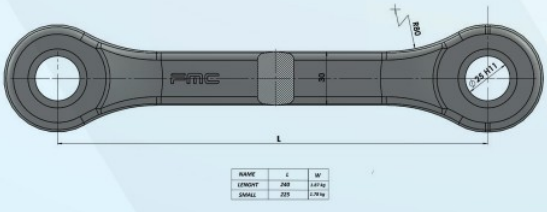
Mechanical tests performed in company test room
hardness HB, HV, HRC
tensile test
impact test
non-destructive tests

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

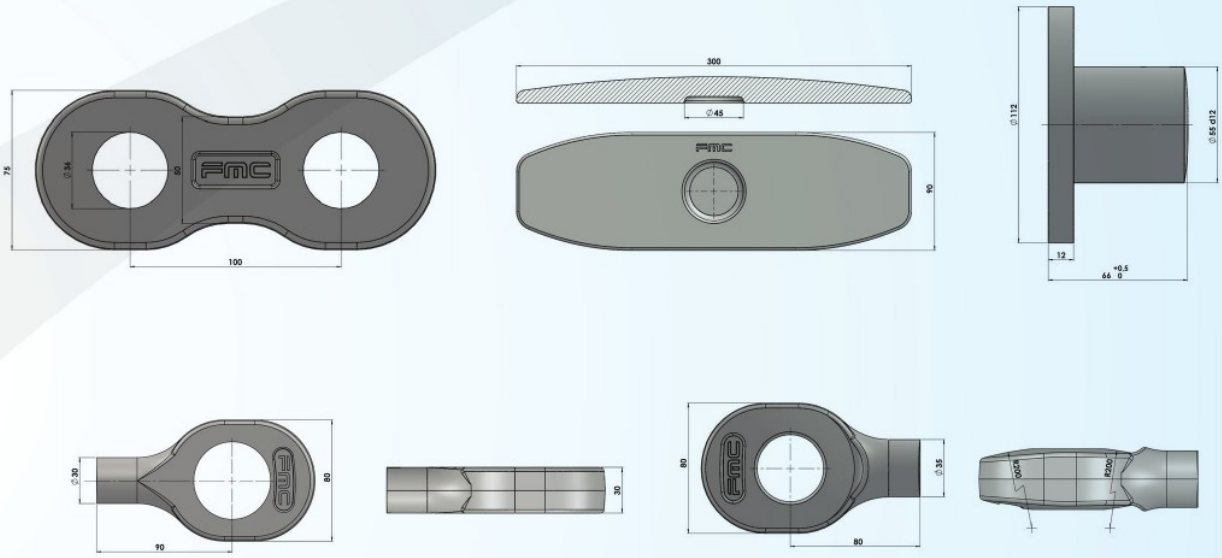
• Surface defect inspection by magnetoflux, die penetrant methods
• Material substitution inspection, chemical composition analysis (22 elements)
• Final inspection according to EN standards
• Statistical acceptance

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

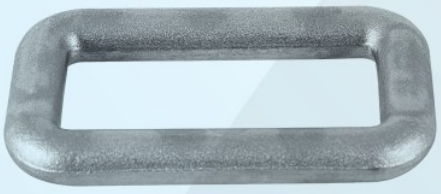
QUALITY CONTROL
Quality control system certified according to EN ISO 9001:2015
Purchase of materials from certified manufacturers
Material receiving inspection
Product in-process inspection

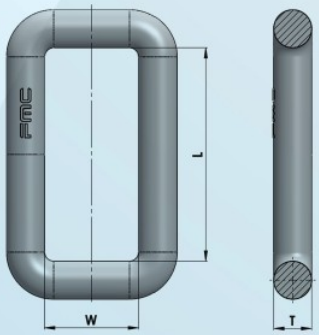
Mechanical tests performed in company test room
hardness HB, HV, HRC
tensile test
impact test
non-destructive tests

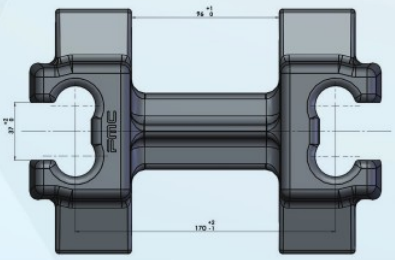
Metallographic tests in company test room
macrostructure evaluation
microstructure evaluation
grain

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,TUDEM-SAS

Link



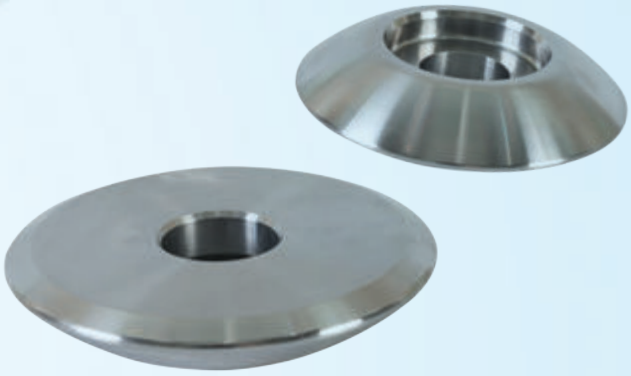




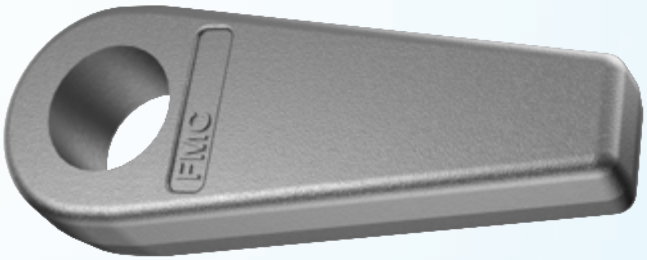
Double Stone

Schakle

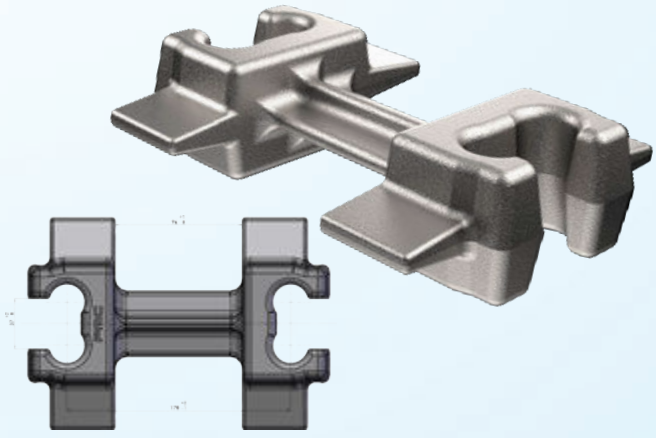
Liner



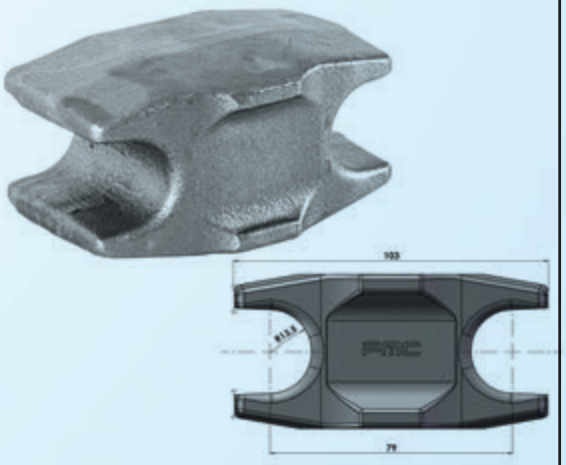
Rod-Eye



Intermediate Stone

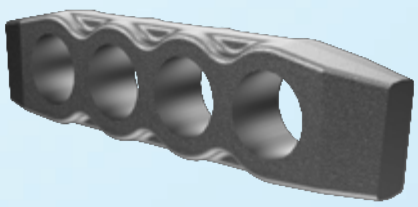


Bearing Stone



Piston Arm

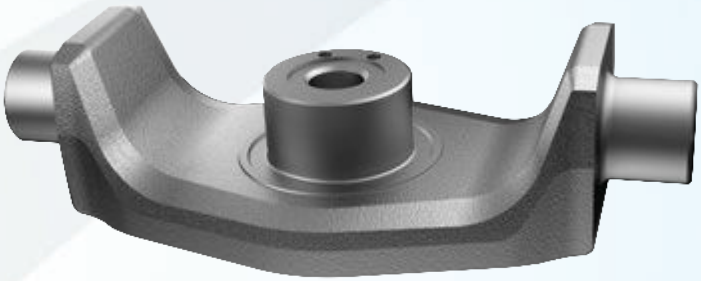
Kotevnik



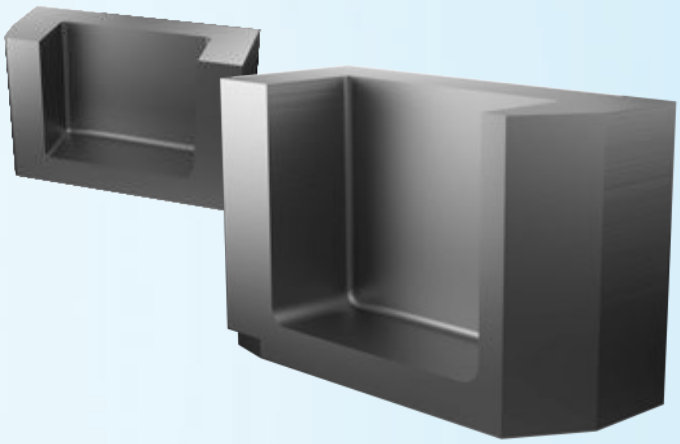
Tamping Tine

Rail Car Parts
Twin Axle Bogie Parts

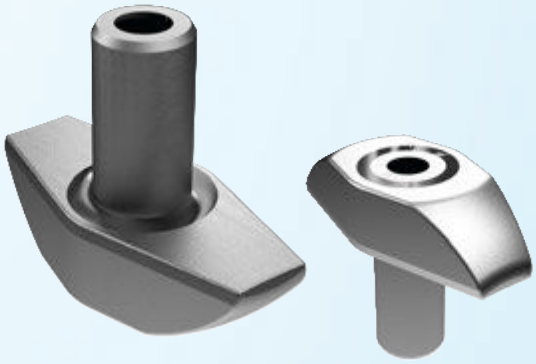
Joint Pin



Left / Right Bearings

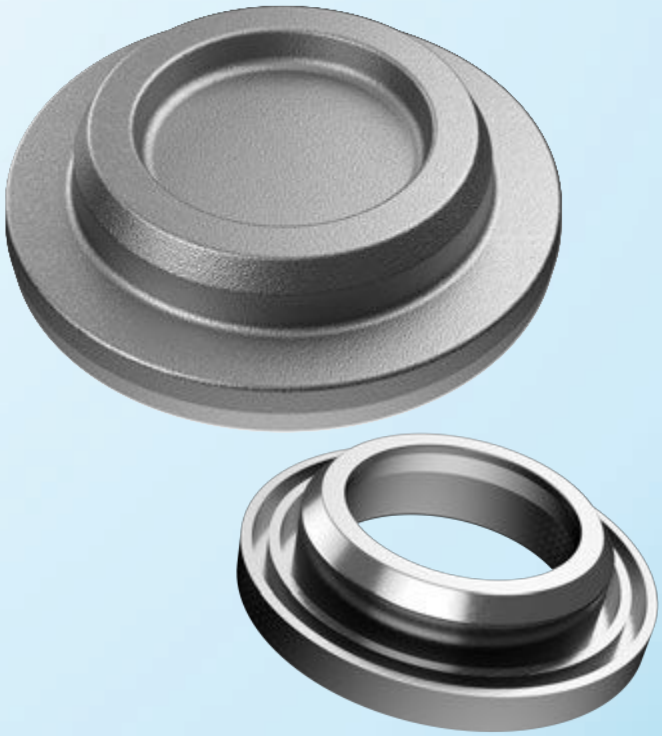


Hammer

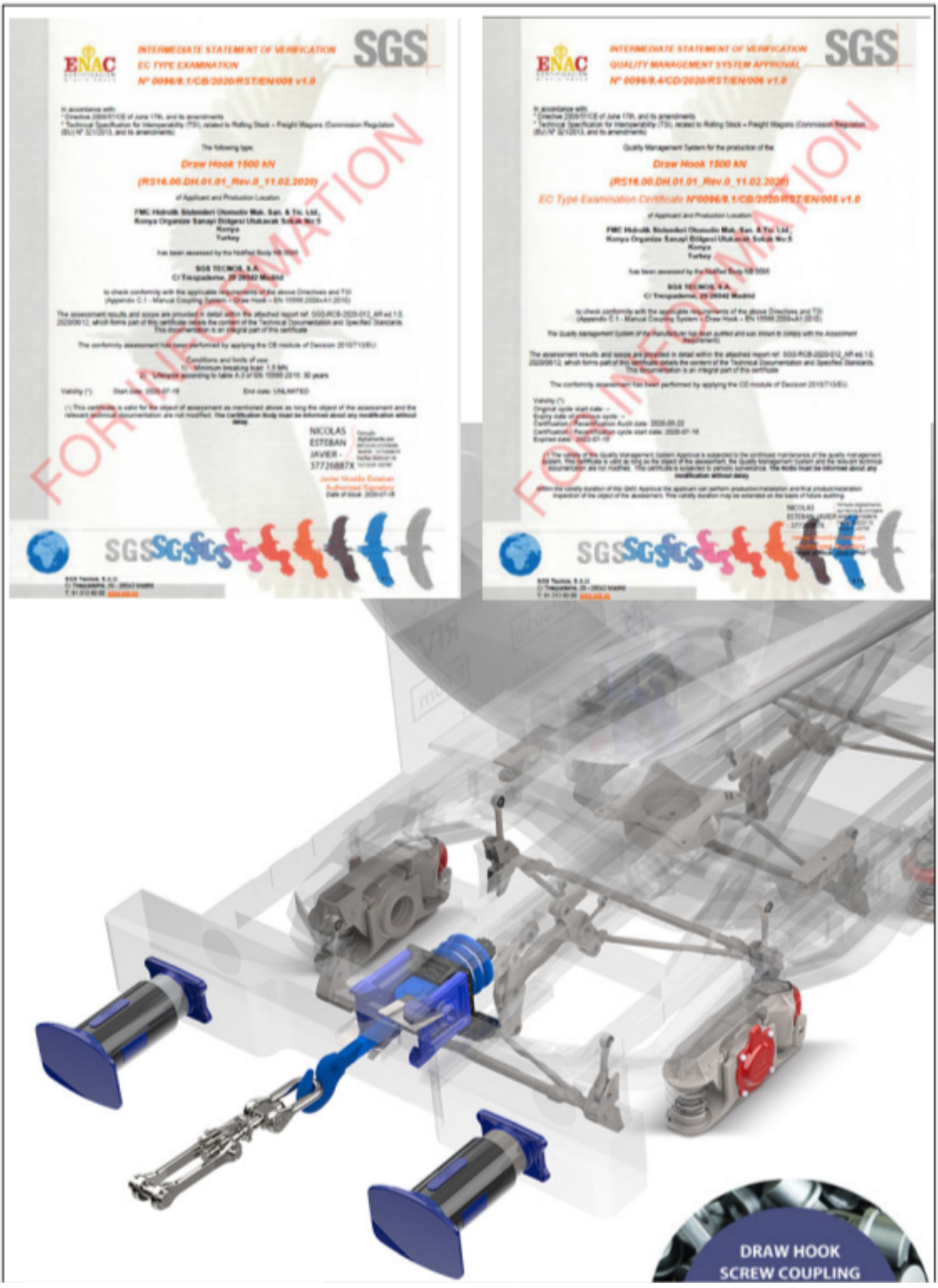


Retain Socket

Labyrinthring



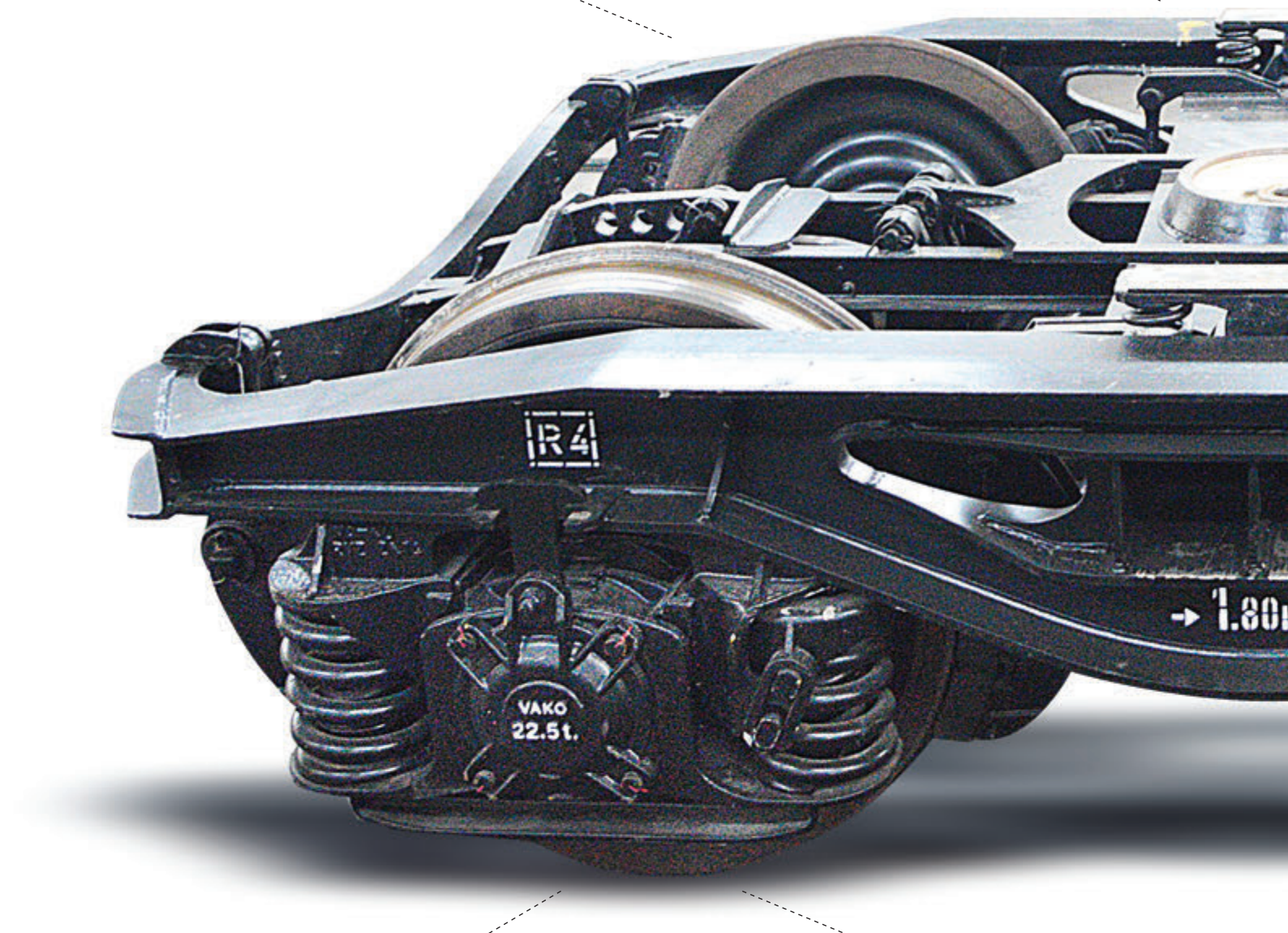
TSI CERTIFICATE | EN 15566 STANDARD



EVERYTHING IS UNDER THE ONE ROOF

HOT STEEL FORGING

MACHINING FACILITY



WELDING TECHNOLOGY

QUALITY LABORATORY