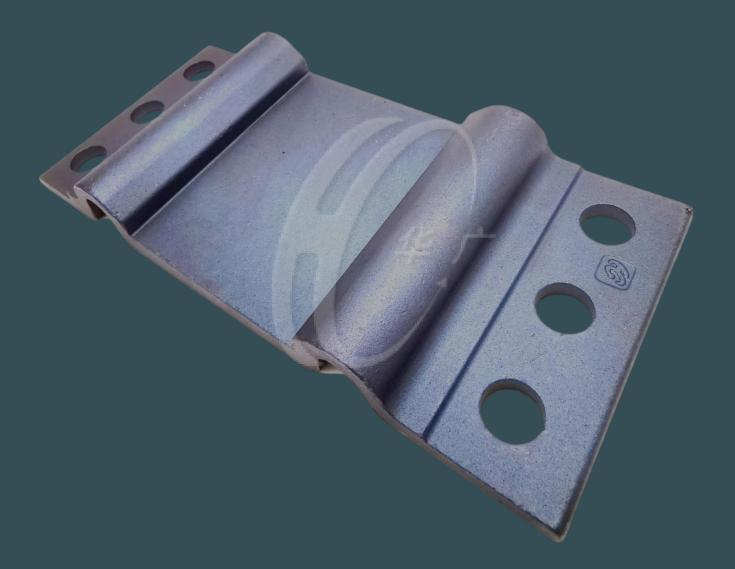
TIE PLATE



Huaguang Seiko OEM/ODM forged tie plates are designed and manufactured for meeting most of the specific and technical requirements in diverse countries' needs.



PRODUCT CATALOGUE

TIE PLATE

European Standard Railroad Type: Page.5 S-45 / 49E1 / 54E2 iko European Standard Railroad Type: 6oUNI

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European High-speed Railroad Type: EHR-RP4R

Page.9

European High-speed Railroad Type: EHR-HB2R

Page.11



North American Metropolitan

Transportation Type: NAMT-6R

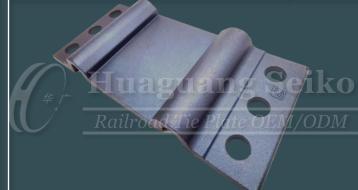


European High-speed Railroad Type: EHR-FS4R

Page.13

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North American Metropolitan Page.17 Transportation Type: NAMT-4R South American Standard Subway Page.21 Type: SASS-4R



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10. Japanese Bullet Train (Shinkansen) Type: JBT-2O

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11. Japanese Bullet Train (Shinkansen) Type: JBT-4O

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12. Chinese High-speed Railway Type: CHR-2O

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13. Chinese High-speed Railway Type: Page.29 CHR-2R 15. Middle Eastern Standard Railway Page.33 Type: MESR-4R



14. Chinese Special Subway Type: CST-4R

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16. ASEAN Standard Subway Type: Page.35 ASS-2R



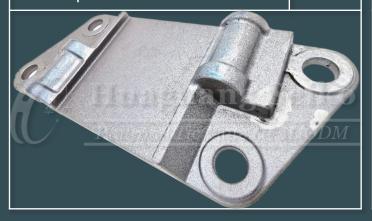


17. ASEAN Standard Subway Type: ASS-4R

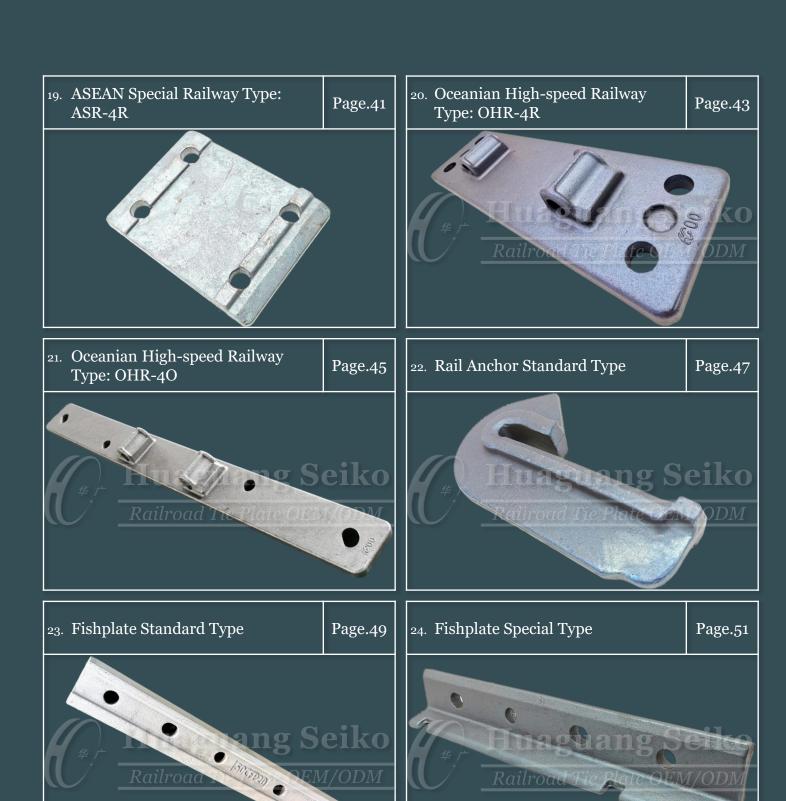
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18. ASEAN Special Subway Type: ASR-20

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Railroad

1. European Standard Railroad Type: S-45 / 49E1 / 54E2





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	8.4 kg	10.0 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.5/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.7/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,670

Note:

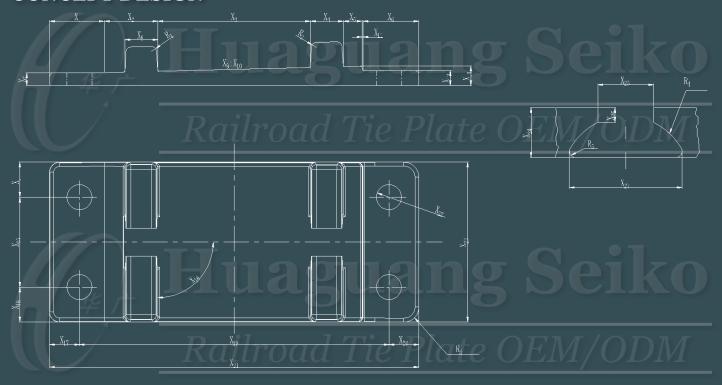
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



2. European Standard Railroad Type: 60UNI





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	8.8 kg	10.3 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.9/pc	USD \$0.2/pc	Depend on the country and location	USD \$5.1/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,670

Note:

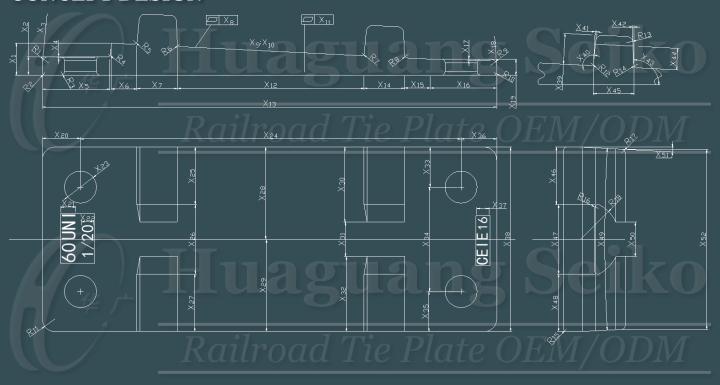
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- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

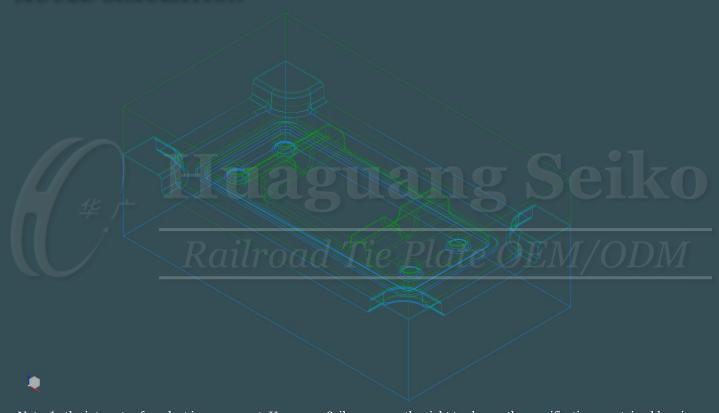
For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



3. European High-speed Railroad Type: EHR-RP4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	9.1 kg	10.5 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$5.2/pc	USD \$0.2/pc	Depend on the country and location	USD \$5.4/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,670

Note:

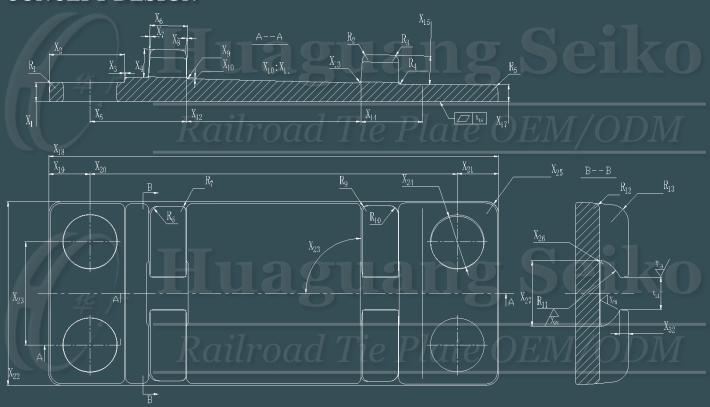
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- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



4. European High-speed Railroad Type: EHR-HB2R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	8.5 kg	10.0 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.6/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.8/pc + (a+d)

Mould Fee ⁽⁴)
USD \$4,670	

Note:

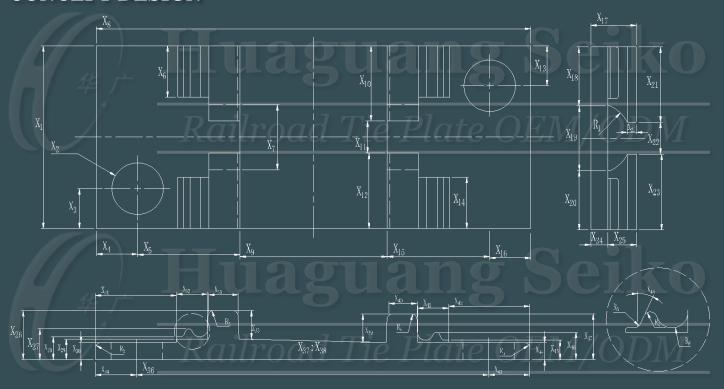
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.

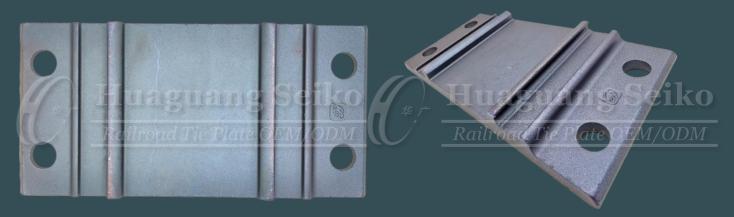


MOULD SIMULATION



5. European High-speed Railroad Type: EHR-FS4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	7.3 kg	8.5 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.1/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.3/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,040

Note:

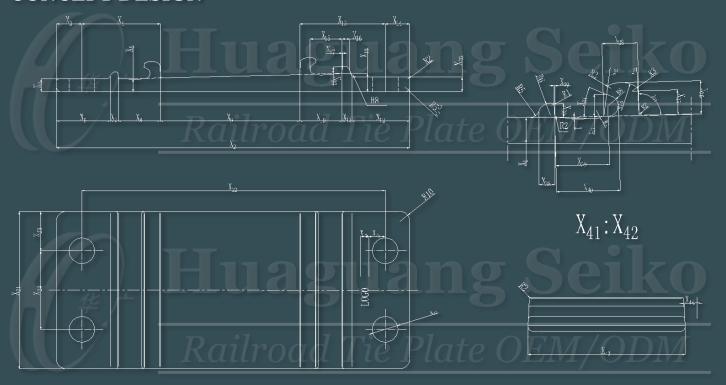
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- 2) Regarding the material type, please refer to Reference: Worldwide Equivalents Grades of Steel on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.

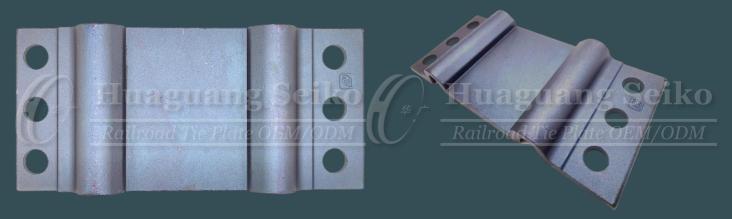


MOULD SIMULATION



6. North American Metropolitan Transportation Type: NAMT-6R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	8.5 kg	10.0 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.6/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.8/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,670

Note:

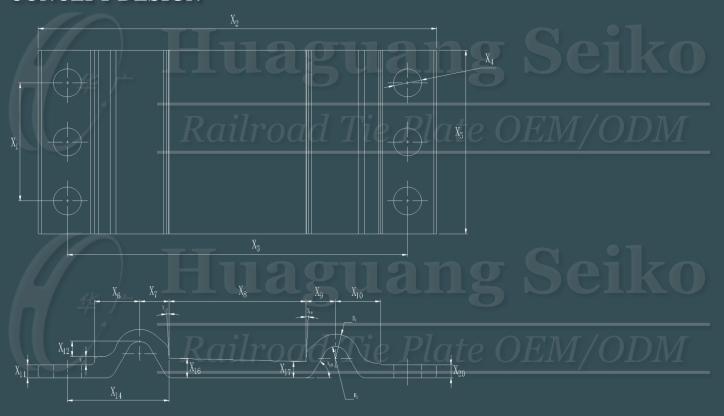
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: Worldwide Equivalents Grades of Steel on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



7. North American Metropolitan Transportation Type: NAMT-4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	7.1 kg	8.5 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$3.7/pc	USD \$0.2/pc	Depend on the country and location	USD \$3.9/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,040

Note:

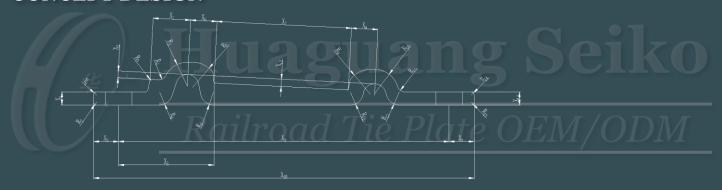
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



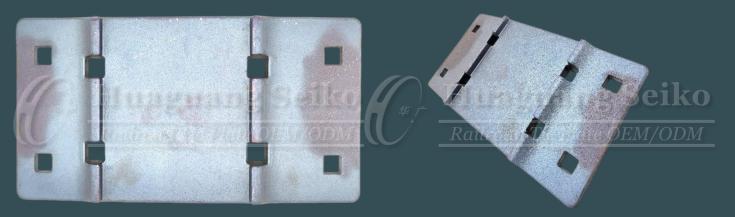


MOULD SIMULATION



8. North American Standard Railway Type: NASR-8S





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	10.6 kg	12.2 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$6.1/pc	USD \$0.2/pc	Depend on the country and location	USD \$6.3/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,980

Note:

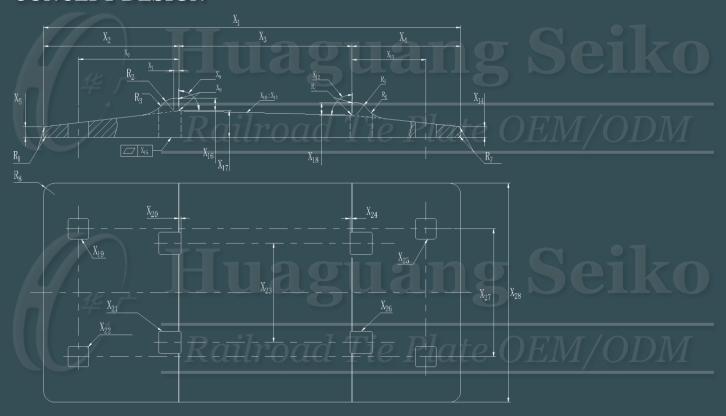
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



9. South American Standard Subway Type: SASS-4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	7.9 kg	9.2 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.4/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.6/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$3,250

Note:

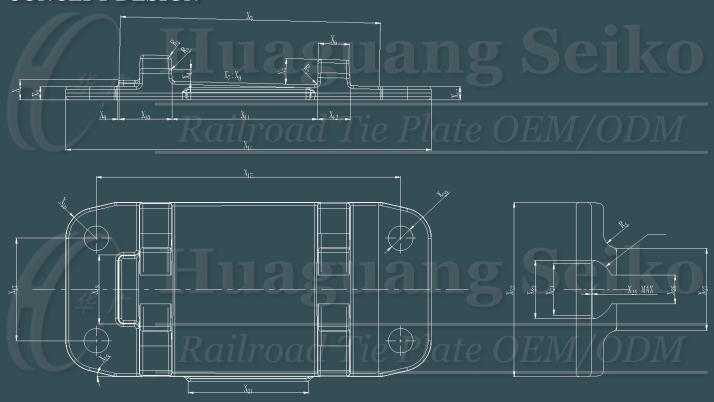
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- 2) Regarding the material type, please refer to Reference: Worldwide Equivalents Grades of Steel on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



10. Japanese Bullet Train (Shinkansen) Type: JBT-20





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	9.8 kg	11.5 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$5.4/pc	USD \$0.2/pc	Depend on the country and location	USD \$5.6/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,820

Note:

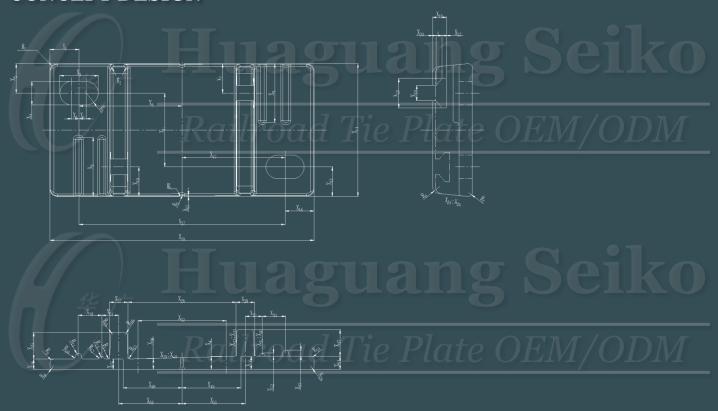
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: Worldwide Equivalents Grades of Steel on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



11. Japanese Bullet Train (Shinkansen) Type: JBT-40





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	11.8 kg	13.5 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$6.8/pc	USD \$0.3/pc	Depend on the country and location	USD \$7.1/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$5,130

Note:

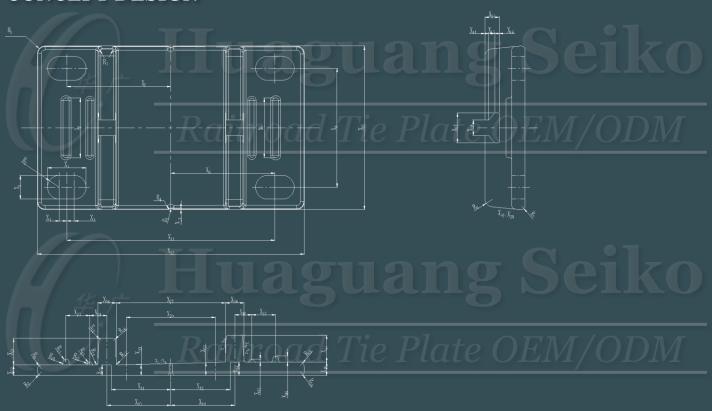
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- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



12. Chinese High-speed Railway Type: CHR-20





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	12.0 kg	13.8 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$6.9/pc	USD \$0.3/pc	Depend on the country and location	USD \$7.2/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$5,130

Note:

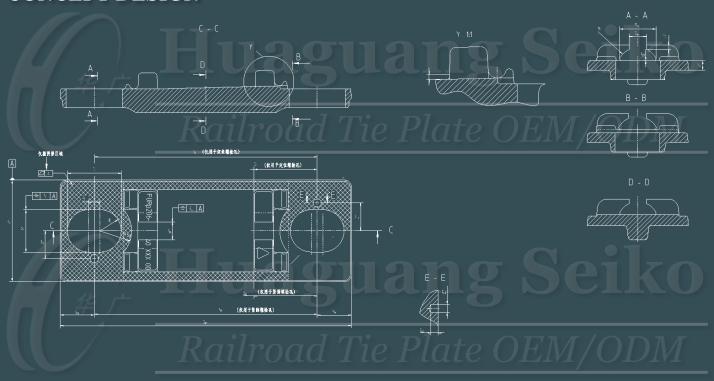
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- 2) Regarding the material type, please refer to Reference: Worldwide Equivalents Grades of Steel on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



13. Chinese High-speed Railway Type: CHR-2R





QUOTATION⁽¹⁾

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	19.5 kg	21.5 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$12.1/pc	USD \$0.4/pc	Depend on the country and location	USD \$12.5/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$6,380

Note:

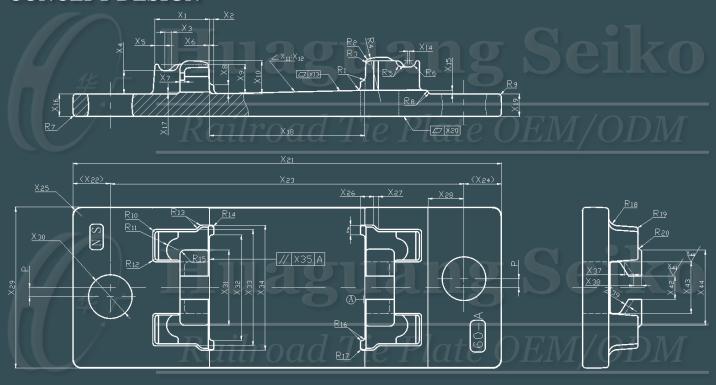
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- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



14. Chinese Standard Subway Type: CST-4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	7.6 kg	8.6 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.5/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.7/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,040

Note:

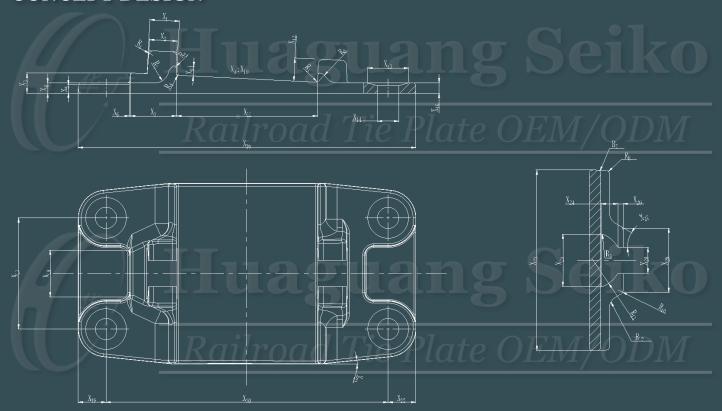
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- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



15. Middle Eastern Standard Railway Type: MESR-4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	5.0 kg	6.2 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$2.4/pc	USD \$0.2/pc	Depend on the country and location	USD \$2.6/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$3,410

Note:

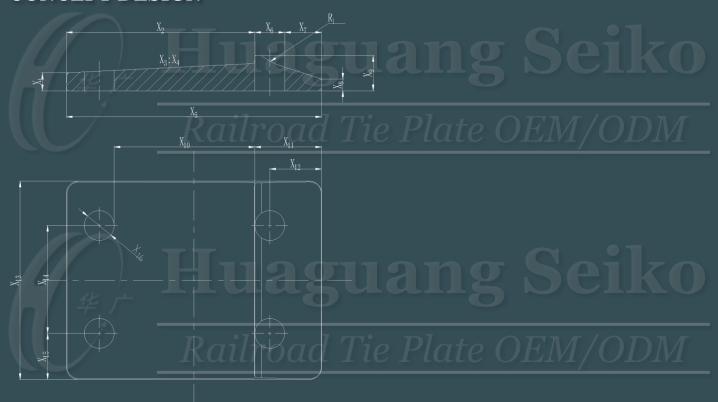
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



16. ASEAN Standard Subway Type: ASS-2R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	8.2 kg	9.7 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.4/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.6/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,340

Note:

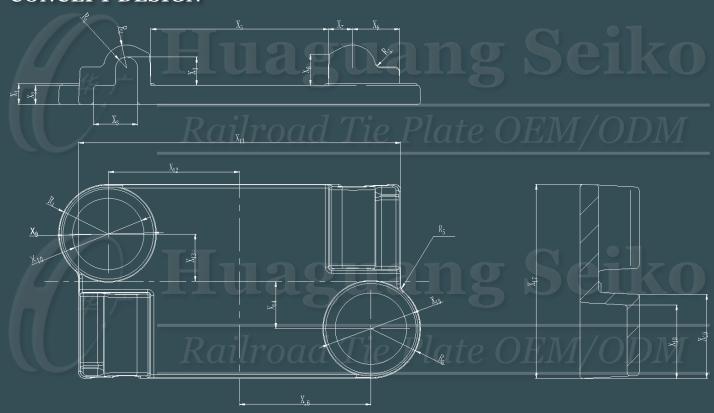
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



17. ASEAN Standard Subway Type: ASS-4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	8.8 kg	10.3 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.9/pc	USD \$0.2/pc	Depend on the country and location	USD \$5.1/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,670

Note:

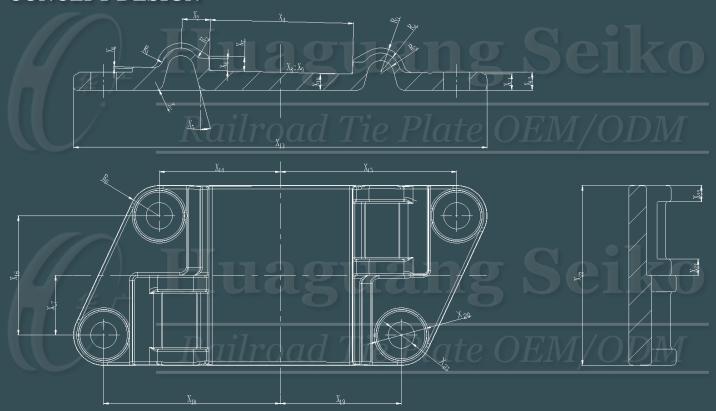
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: Worldwide Equivalents Grades of Steel on Page. 53 \sim 58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



18. ASEAN Special Subway Type: ASR-20





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	7.8 kg	9.1 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.3/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.5/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,340

Note:

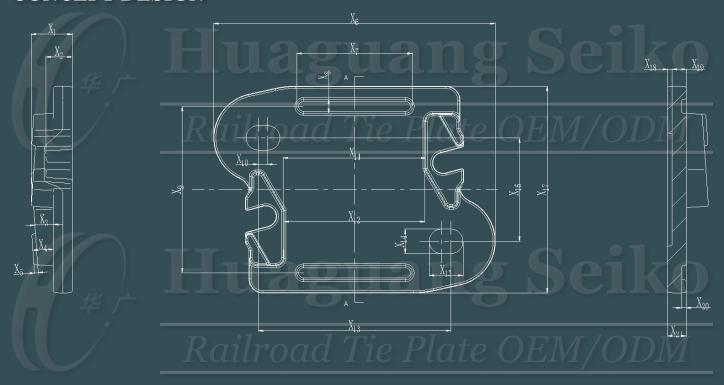
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: Worldwide Equivalents Grades of Steel on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



19. ASEAN Standard Railway Type: ASR-4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	4.6 kg	5.6 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$2.4/pc	USD \$0.1/pc	Depend on the country and location	USD \$2.5/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$3,100

Note:

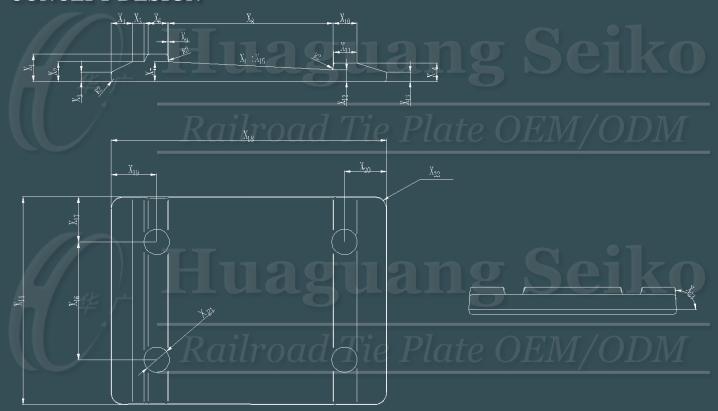
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.

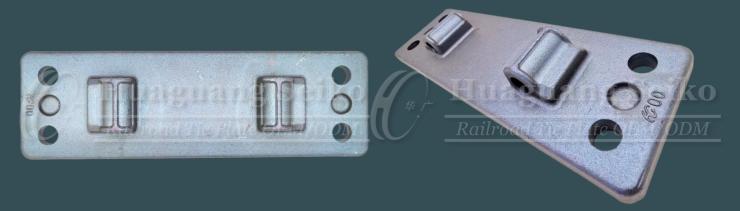


MOULD SIMULATION



20. Oceanian High-speed Railway Type: OHR-4R





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	12.0 kg	13.4 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$7.2/pc	USD \$0.3/pc	Depend on the country and location	USD \$7.5/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$5,130

Note:

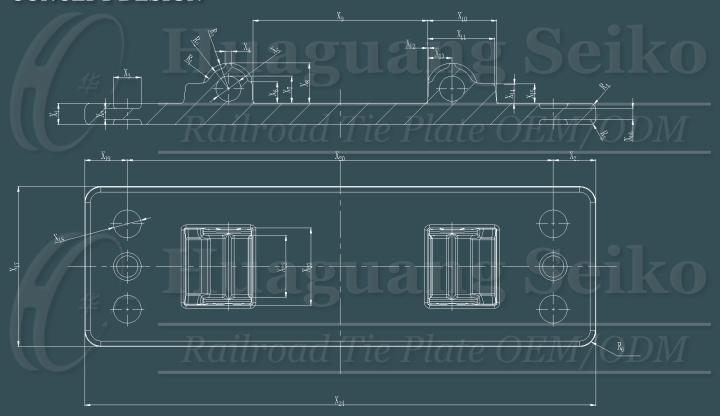
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



21. Oceanian High-speed Railway Type: OHR-40





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	16.5 kg	18.3 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$10.1/pc	USD \$0.3/pc	Depend on the country and location	USD \$10.4/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$5,910

Note:

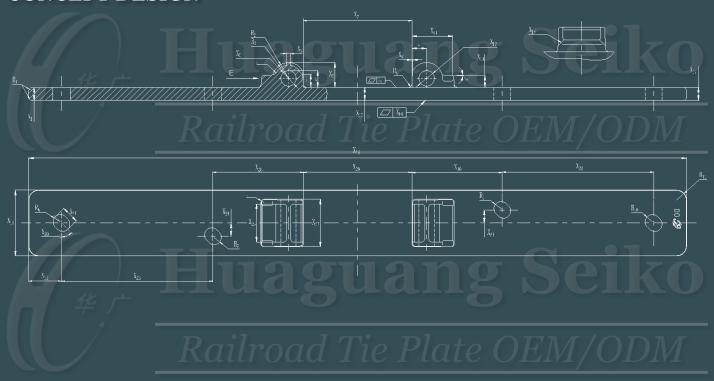
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



22. Rail Anchor Standard Type





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	1.3 kg	1.5 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$0.7/pc	USD \$0.1/pc	Depend on the country and location	USD \$0.8/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$2,490

Note:

- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



23. Fishplate Standard Type





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	16.1 kg	18.0 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$9.7/pc	USD \$0.3/pc	Depend on the country and location	USD \$10.0/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$5,910

Note:

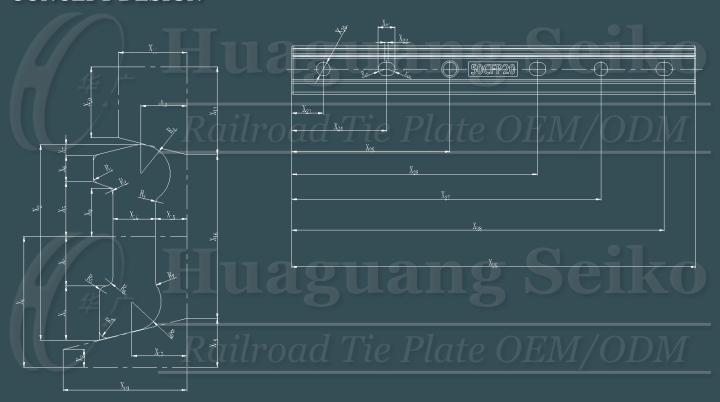
- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



24. Fishplate Special Type





QUOTATION(1)

Material Type ⁽²⁾	Sample Product Weight	Material Weight
Meet product physical performance requirements	8.6 kg	10.1 kg

(a)	(b)	(c)	(d)	(a~d)
Material Cost	Production Cost	Packaging Cost	Delivery Cost	Unit Price ⁽³⁾
Depend on the steel grade	USD \$4.7/pc	USD \$0.2/pc	Depend on the country and location	USD \$4.9/pc + (a+d)

Mould Fee ⁽⁴⁾
USD \$4,670

Note:

- 1) The Quotation above is updated on Nov 2021, and only for reference purposes. Please contact us for getting the latest Price, due to different weights in diverse product designs, timely changes in material cost and currency exchange rate, etc.
- 2) Regarding the material type, please refer to Reference: $Worldwide\ Equivalents\ Grades\ of\ Steel$ on Page.53~58.
- 3) The (a~d) Unit Price without Tax.
- 4) If the product orders over 30,000 pieces, the Mould Fee will be returned after the contract is formally signed.

TECHNICAL SPECIFICATION

For Concept Design & Mould Simulation:

- All dimensions including R angles can be appropriately adjusted according to technical requirements.
- The size of the tolerance can be adjusted according to the client needs.

- The product physical performance and surface treatment meet the technical requirements of the drawings.
- The product must have NO burrs, NO crack, and NO pits and NO other defects that affect product use.



MOULD SIMULATION



Reference: Worldwide Equivalents Grades of Steel for USA

#	USA	EU	Germany	Japan	France	England	China	Russia	International
1	AISI, ASTM, UNS	EN 90MnCrV8 (1.2842)	DIN,WNr 90MnCrV8	JIS	AFNOR 90MnV8	BS	GB	GOST	ISO 90MnCrV8
2	02 1011	90IVINCTV8 (1.2842)			901010108	B02			90IVINCEV8
3	M1010	C10 (1.0301)	C10 Ck10	S9CK	XC10	045A10	10	10	
4	1015								
5	A283C						Q235A	St2ps	
6	GradeC	S235JR (1.0038(dubl))	RSt37-2 St37-2	SM400A SS400	E24-2	40A 40B	Q235B	St2sp	E235B Fe360B
7	GradeD		3137-2	33400		406	Q235D	St3ps St3sp	resoub
8	SSGrade33								
9	1020	C22E (1.1151)	Ck22	S20C	XC18	070M20 CS22		20	
10	1024	S355J2(+N) (1.0570(dubl))	1.0570 St52-3 St52-3N	SM490 SM490C SS490C	E36-3	50D	16Mn	17G1S 17GS S345	Fe510D
		C35R (1.1180)	C35 Cm35		XC38H1u	080M36			C35M2
11	1035	C35E (1.1181)	Ck35	S35C	XC38 XC38H1	080M36 CFS6	35	35	C35E4
		C35 (1.0501)	1.0501	S35C	AF55C35	070M36	35	35	C35
12	Gr.1035		C35	3330	C35	40HS	33	40	C35E4
13	1038	C40 (1.0511)	1.0511 C40	S40C	AF60C40 AF60C45	070M40 080M40	40	40	C40
		C40 (1.0311)	Ck40	3400	XC42HI	En8	40	40	C40E4
14	1040	C40R (1.1189)	Cm40		XC42H1u				C40M2
		C40E (1.1186)	Ck40	S40C	XC42H1	080M40 CS40		40	C40E4
15	1042								
16	Gr.1043	C45 (1.0503)	C45	S45C	AF65C45 C45	070M46 50HS	45	45	C45
17	1045	C45E (1.1191)	Ck45	S45C	XC45 XC48H1	080M46 CFS8	45 45H	45	C45E4
		C45R (1.1201)	Cm45		XC48H1u				C45M2
18	1049	C50 (1.0540)	C50 Ck50	S50C	XC48H1	070M50 080M50	50	50	C50 C50E4
19	1050	C50E (1.1206)	Ck50	S50C	XC50	080M50 CS50		50	C50E4
		C50R (1.1241)	Cm50						C50M2
		C55E (1.1203)	Ck55	S55C	XC54	070M55		55	C55E4
20		C33E (1.1203)		3330	XC55H1			33	C33L4
20	1055	C55 (1.0535)	C55	S55C	AF70C55 C54	070M55 50 En9	55	50 55	C55 C55E4
21	1060	C60 (1.0601)	C60	S58C		070M60	60	60 60G	C60
22	1075	C76D (1.0614)					75	75	
23	1085	C86D (1.0616)					85	85	
24	1140	35S20 (1.0726)	35S20		35MF6	212M36	Y35		35S20
25	1392	S315MC (1.0972)	QStE300TM	SPFH490	E315D E335D	43F30 43F35 HR43F35			
26	1527					120M36			
27	Gr.1330	28Mn6 (1.1170)	28Mn6	SCMn2	35Mn5	150H19 150M19 150M28	30Mn2	30G 30G2	28Mn6
28	201	X12CrMnNiN17-7-5 (1.4372)		SUS201	Z12CMN17-07Az				
		S355G7 (1.8808)				355EM			
29	2HGr.50	S355G8 (1.8810)				355EMZ			
29	2WGr.50/50T	S355G11 (1.8806)				355EM			
		S355G12 (1.8809)				355EMZ			
		S420G3 (1.8851)							
30	2WGr.60	S420G4 (1.8859)							
		S460G3 (1.8883)							
	2146 60	S460G4 (1.8889)							
31	2WGr.60 2YGr.60	S420G1 (1.8830)							

#	USA AISI, ASTM, UNS	EU EN	Germany DIN,WNr	Japan JIS	France AFNOR	England BS	China GB	Russia GOST	International ISO
		S420G1 (1.8830)							
31	2WGr.60	S420G2 (1.8857)							
31	2YGr.60	S460G1 (1.8878)				450EM			
_		S460G2 (1.8887)				450EMZ			
32	301	X10CrNi18-8 (1.4310)	X12CrNi17-7	SUS301	Z11CN18-08 Z12CN18-09	301S21 302S26			X9CrNi18-8
33	301LN	X2CrNiN18-7 (1.4318)		SUS301L	Z3CN18-07Az				
34	303	X8CrNiS18-9 (1.4305)		SUS303	Z8CNF18-09	303S31			
35	304 304N	X5CrNi18-10 (1.4301)	1.4301 X5CrNi18-9	SUS304	X5CrNi18-10 Z5CN18-09 Z6CN18-09 Z7CN18-09	304S15 304S31	0Cr18Ni9	08KH18N10	
37	304H	VCC-NI10 10 /1 4040\		CLICAGALI	7CCN10 00			001/11/01/10	V7C-N:10 0
38	S30409	X6CrNi18-10 (1.4948)		SUS304H	Z6CN18-09			08KH18N10	X7CrNi18-9
39	304L	X2CrNi18-9 (1.4307)		SUS304L	Z2CN18 Z3CN18 Z3CN19-09	304S11		04KH18N10	
L		X2CrNi19-11 (1.4306)		SUS304L	Z2CN18-10 Z3CN18-10	304S11		03KH18N11	
40	304LN	X2CrNiN18-10 (1.4311)		SUS304LN	Z3CN18-10Az	304S61			
41	305	X4CrNi18-12 (1.4303)		SUS305J1	Z1CN18-12 Z5CN18-11FF	305S19		06KH18N11	
42	309	X15CrNiSi20-12 (1.4828)	X15CrNiSi20-12	SUH309	Z17CNS20-12	309S24	1Cr20Ni14Si2	20KH20N14S2	
43 44	309S S30908	X12CrNi23-13 (1.4833)		SUS309S	Z15CN23-13	309S16 309S24		20KH23N13	
45 46	310S S31008	X8CrNi25-21 (1.4845)	X8CrNi25-21	SUS310S	Z8CN25-20	310S16 310S24 310S31	1Cr25Ni20Si2	10KH23N18 20KH23N18	Н16
		16NiCrS4 (1.5715)							
47	3115	16NiCr4 (1.5714)				637M17			
48	314	X15CrNiSi25-21 (1.4841)			Z15CNS25-20			20KH25N20S2	
49	316	X5CrNiMo17-12-2 (1.4401)	X5CrNiMo17-12-2	SUS316	Z6CND17-11 Z7CND17-11-02 Z7CND17-12-02	316S31	0Cr17Ni12Mo2	08KH16N11M3	
		X3CrNiMo17-13-3 (1.4436)		SUS316	Z7CND18-12-03 Z7CND18-12-3	316S31 316S33	0Cr17Ni12Mo2		Type20a
50	316L	X2CrNiMo17-12-2 (1.4404)	X2CrNiMo17-13-2	SUS316 SUS316L	Z2CND17-12 Z3CND17-11-02 Z3CND18-12-02	316S11	00Cr17Ni14Mo2 0Cr18Ni12Mo2Ti		Type19
30	3101	X2CrNiMo17-12-3 (1.4432)		SUS316L	Z3CND17-13-03 Z3CND18-14-03	316S13		03KH17N14M3	
51	TP316L	X2CrNiMo18-14-3 (1.4435)	X2CrNiMo18-14-3	SUS316L	Z3CND17-12-03 Z3CND18-14-03	316S13 316S14	00Cr17Ni14Mo2	03KH17N14M3	Type19a
52	316LN	X2CrNiMoN17-11-2 (1.4406)		SUS316LN	316S61 Z3CND17-11Az	316561			
53	S31653	X2CrNiMoN17-13-3 (1.4429)		SUS316LN	Z3CND17-12Az	316S63			
54	316Ti	X6CrNiMoTi17-12-2 (1.4571)	X10CrNiMoTi18-10 X6CrNiMoTi17-12-2	316Ti SUS316Ti	Z6CNDT17-12 Z6CNT17-12	320S31 321S12	0Cr18Ni12Mo2Ti 1Cr18Ni12Mo2Ti	08KH17N13M2T 10KH17N13M2T	
55	317L	X2CrNiMo18-15-4 (1.4438)		SUS317L	Z3CND19-15-04	317S12			
56	317LMN	V2C-NINA-NI17-12-E /4-1422)							
57	S31726	X2CrNiMoN17-13-5 (1.4439)			Z3CND18-14-05Az				
58	321	X6CrNiTi18-10 (1.4541)	X10CrNiTi18-9 X6CrNiTi18-10	SUS321	Z6CNT18-10	321531	0Cr18Ni10Ti 1Cr18Ni11Ti H0Cr20Ni10Ti	08KH18N10T 08KH18N12T 12KH18N10T	
59 60	321H S32109	X8CrNiTi18-10 (1.4878)		SUS321H	Z6CNT18-10	321S12 321S51		12KH18N10T	X7CrNiTi18-10
61	330	X12NiCrSi35-16 (1.4864)	X12NiCrSi36-16	SUH330	Z12NCS37-18		1Cr16Ni35		H17
62	347	X6CrNiNb18-10 (1.4550)			Z6CNNb18-10	347531		08KH18N12B	
63	347H				Z2CND17-11				
64	S34709	X7CrNiNb18-10 (1.4912)		SUS347H	Z2CND18-13 Z8CNNb18-10				
65 66	409 S40900	X2CrTi12 (1.4512)		SUS409L	Z3CT12	409S			

#	USA AISI, ASTM, UNS	EU EN	Germany DIN,WNr	Japan JIS	France AFNOR	England BS	China GB	Russia GOST	International ISO
67	410	X12Cr13 (1.4006)			Z10C13	Z10C13		12KH13 15KH13L	
68	410S				====				
69	S41008	X6Cr13 (1.4000)	X7Cr14	SUS410S	Z6C13 Z8C12	403S17	0Cr13	08KH13	
70	Type403				20012				
71	4135	34CrMo4 (1.7220)	34CrMo4	SCM435H	34CD4 35CD4	708A30 708M32	35CrMo ZG35CrMo	35KHM 35KHML	34CrMo4
		34CrMoS4 (1.7226)	34CrMoS4		34CD4u				34CrMoS4
72	4140	42CrMoS4 (1.7227)	42CrMoS4		42CD4u				42CrMoS4
73	4142	42CrMo4 (1.7225)	42CrMo4	SCM440H	42CD4	708M40 CFS11	42CrMo	35KHM 38KHM	42CrMo4
74	416	X12CrS13 (1.4005)			Z11CF13	416S21			
75	420	X30Cr13 (1.4028)	X30Cr13	SUS420J2	Z30Cr13 Z33C13	420\$45	3Cr13	30KH13	
76	S42010	X20Cr13 (1.4021)	X20Cr13	SUS420J1	X20Cr13 Z20C13	420S29 420S37	2Cr13 X20Cr13	20KH13	
77	430	X6Cr17 (1.4016)	X6Cr17	SUS430	Z8C17	430S17	1Cr15	12KH17	
78	S43000	7,00,17 (1,4010)	700117	303430	20017	430S18	16,13	121(117	
79	431	X17CrNi16-2 (1.4057)	X17CrNi16-2				1Cr17Ni2 ML1Cr17Ni2	14KH17N2 20KH17N2	
80	4340	34CrNiMo6 (1.6582)	34CrNiMo6 GS-34CrNiMo6V	SNCM447	35NCD6	817M40	34CrNi3Mo 34CrNiMo ZG34CrNiMo	36KH2N2MFA 38KH2N2MA 40KHN2MA	36CrNiMo6
81	439	X3CrTi17 (1.4510)		SUS430LX	Z4CT17			08KH17T	
82	S43035	` '							
83	444	X2CrMoTi18-2 (1.4521)			Z3CDT18-02				
84 85	446 S44600	X18CrN28 (1.4749)							X15CrN26
86	52100	102Cr6 (1.2067)	100Cr6	SUJ2	100Cr6 100Cr6RR	534A99 535A99	Cr2 GCr15	KH ShKh15	
87	6150	51CrV4 (1.8159)	50CrV4	SUP10	50CrV4 50CV4 51CrV4	735A50 735A51	50CrVA	50KHGFA	51CrV4
88	631	X7CrNiAl17-7 (1.4568)			Z9CNA17-07	301581		09KH17N7YU	X7CrNiAl17-7
89	800	X10NiCrAlTi32-21 (1.4876)							X8NiCrAlTi32-21
90	N08800	7.10111617111132 21 (11.1070)							7.0111017111102 21
91	904L	X1NiCrMoCu25-20-5 (1.4539)			Z2NCDU25-20	904S13			
92	N08904	V4000 14 VIII (4 0000)	V	01/0.40		210		01/15/15	
93	A2	X100CrMoV5 (1.2363)	X100CrMoV5-1	SKD12	Z100CDV5	BA2	Cr5Mo1V	9KH5VF	X100CrMoV5
94	A204Gr.A	16Mo3 (1.5415)	15Mo3	STBA12	15D3	1503-243B 240			F26 P26
95	A204Gr.B		16Mo3			243			TS26
96 97	A242Gr.1 A588	S355J0W (1.8959)		SMA50AW	E36WB3	WR50B		17G1S	Fe355W
00	A700 F0W	S355J2W (1.8965)	WTSt52-3	SMA50CP					
98	A709-50W	S355K2W (1.8967)							
99	A242Type1	S355J2WP (1.8946)			E36WA4				
100	A283A		S185			15HR		St0	
101	A283B	S185 (1.0035)	St33	SS330	A33	15HS	Q195	St1ps	Fe310
102	Gr.A					S185		St1sp	
103	A414E		1.0425		A42AP	151-400 161-430		4.511	
104	A516Gr.60	P265GH (1.0425)	HII St45.8	SG295	A42CP A42F	161Gr.400 164Gr.400 244Gr.400		16K 20K	F5 F7
105	A283D		RSt42-2			161-430	Q225A	St4ps	
106	A529	S275JR (1.0044)	RSt42-2 St 44-2	SS400	E28-2	43A	Q275Z	St4ps St4sp	E275B
107	Gr.D					43B			
108	A284C	S235J0 (1.0114)	St37-3U	SM400B	E24-3	40C	Q235C	St3ps St3sp	E235C
109	A284D	S235J2(+N) (1.0116(dubl))	St37-3N	SM400C	E24-4	40D		St3ps St3sp	Fe360D

#	USA AISI, ASTM, UNS	EU EN	Germany DIN,WNr	Japan JIS	France AFNOR	England BS	China GB	Russia GOST	International ISO
110	A285 A285Gr.C	P235GH (1.0345)	1.0345 ASt35 HI	SB410 SGV410 SPV235	A37AP A37CP	141-360 161Gr.360	20	12k	P3
112	A36	S235J2 (1.0117)	StE255	SPV24		40EE	Q235D	17G1S	
113	A387Gr.12	020002 (210227)			15CD2.05	620	Q2000		522
114	Gr.P12	13CrMo4-5 (1.7335)	13CrMo4-4	SFVAF12	15CD4-05 15CD4-5	620-440 620Gr.27	12CrMo	12KHM 15KHM	F32 P32
115 116	A387Gr.22 Gr.P22	10CrMo9-10 (1.7380)	10CrMo9-10	SCMV4	10CD9-10 12CD9-10	622 622Gr.31	12CrMo	10KH2M	F34 P34
117	A414Gr.G								TS34
118	A516Gr.70	P355GH (1.0473)	19Mn6	SPV36	A52CP	224Gr.490			
119	A537CL1	P355N (1.0562)	StE355	SM490B	A510AP E355R	223Gr.490 50DD	20	15GF	E355
120 121	A441 A633	S355J0 (1.0553)	St52-3U	SS490B	E36-3	50C	16Mn		E355C Fe510C
122	A514	S700MC (1.8974)	1.0966 QStE690TM		E690D	75F70			
123	A514F	S690Q (1.8931)	StE690V		E690TR				
124	A516Gr.65 X46	P295GH (1.0481)	1.0436 17Mn4 ASt45	SG365 SPV315 SPV32 SPV32	A48AP A48CP A48FP	224-460B 224Gr.460 224Gr.490 430LT		14G2 18K	P11
126	A537A2	S460Q (1.8908)	TStE460V	SM58	E460T E460TR				
127	A678Gr.A		0.50	SM490A			Q345B		E355C
128	SSGrade50	S355JR (1.0045)	St52-3	SS490	E36-2	50B	Q345C		Fe510B
129	A572	S275J2(+N) (1.0144)	St44-3N		E28-4	43D	Q255	St4kp St4ps	Fe430D
130	A633Gr.A	S275NL (1.0491)	TStE285			43EE			
131 132	A572Gr.42 A633A	S275N (1.0490)	1.0486 StE285	SM400B		43DD			
133	A662Gr.A	P275NL1 (1.0488)	TStE285			43EE			
134	A572Gr.50	S355N (1.0545)	StE355		E355R	50DD 50E	Q345D	15GF	
135	A945Gr.65	S420M (1.8825)	StE420TM		E420R				
136	A572Gr.60								
137 138	A633Gr.E A738Gr.C	S420NL (1.8912)	TStE420		E420FP	50F	Q420E		
139	A633E			SM490A					
140	A255Gr.D	S420N (1.8902)	StE420	SM490C	E420R		Q420D	16G2AF	E420
141	A633Gr.E	S420ML (1.8836)	TStE420TM		E420FP				
142	A572Gr.65	S460ML (1.8838)	TStE460 TStE460TM		E460FP	55EE			
143	A913Gr.65	S460M (1.8827)	StE460 StE460TM	SM570	E460R	55C			
144 145	A572Gr.C A913Gr.50	S355M (1.8823)	StE355 StE355TM		E355 E355R	50D			
146	A578Gr.70	S275J0 (1.0143)	St44-3 St44-3U		E28-3	43C	Q275	St4ps St4sp	E275C
147	A588Gr.A								
148	A600A	S355J2W(+N) (1.8963)	WSt52.3	SMA570W	E36WB4	WR50C			
149 150	A600B A600C								
151	A600C A619					1CR			
152	DDS	DC04 (1.0338)	1.0338 RRSt14 St14	SPCE	ES	1CS 1HR 1HS CR1		05kp 08kp 08YU	Cr04 CR24

#	USA AISI, ASTM, UNS	EU EN	Germany DIN,WNr	Japan JIS	France AFNOR	England BS	China GB	Russia GOST	International ISO
153	A621CQ	DD11 (1.0332)	StW22	SPHD	1C	HR3		15kp	HR2
154	CS		RRStW23						
155 156	A621DQ A622DQ	DD12 (1.0398)	StW23	SPHE		HR2			
157	DS	DD13 (1.0335)	StW24	SPHE SPHE-AK	3C	HR1		08kp	HR4
158	A633Gr.C	S355ML (1.8834)	TStE355 TStE355TM		E355FP	50EE			
159	A633Gr.D	S355NL (1.0546)	TStE355		E355FP E355FR	50EE	Q345E		
160	A656	S355J2 (1.0577)	1.0577 ASt52 St52-3N	SS490YA	A52FP	224-460	Q345D		
161	A662Gr.C	P355NH (1.0565)	WStE355		A510AP	224Gr.490			
162	A709-100	S690QL (1.8928)	TStE690V		E690T E690TFP S690T				E690
163	A709Gr.50W	S355K2W(+N) (1.8966)			E36WB4				
164	A737Gr.B	P355NL1 (1.0566)	TStE355		A510AP A510FP1 A530AP E355FP	224Gr.490 50EE			E355E
165	EDDS	DC06 (1.0873)	IF18		IF				
166 167	EV12 Gr.1	X53CrMnNiN21-9 (1.4871) S355J0WP (1.8945)	X53CrMnNiN21-9 9CrNiCuP324	SUH35 SPA-H	Z52CMN21-09 E36WA3	349S54 WR50A WR50B	5Cr21Mn9Ni4N 09CuPCrNi-A	55KH20G9AN4	Type9
Ш				317(11		WR50C	oscar cira n		1633344 171
168 169	Gr.1015 Gr.1016	C15E (1.1141)	1.1141 C15 Ck15	S15C	C18RR XC12 XC15	040A15 080M15 CS17	15	15	C15E4
170	Gr.1108	10S20 (1.0721)	1.0721 10S20		10F1	210M15	Y12		
171	Gr.36	S235JRG2 (1.0038)	RSt37-2 S235JRG2	SS330	E24-2NE	40B	Q235C	St3ps St3sp	Fe360B
172	Gr.45	HC300LA (1.0489)	ZStE300	SPFC440	E280C				
173	Gr.50	S355MC (1.0976)	QStE360TM	SPFH540	E355D E390D	46F35 46F40			
		HC340LA (1.0548)	ZStE340	SPFC490	E315C			201111	
174	Gr.5135	37Cr4 (1.7034)	37Cr4	SCr435H	37Cr4 38C4	530A36 530M36	35Cr	38KHA 40KH	37Cr4
175	Gr.55	HC380LA (1.0550)	ZStE380	SPFC540	E355C				
		S420MC (1.0980) HC420LA (1.0556)	QStE420TM ZStE420	SPFH590 SPFC590	E420D	HR50F45		Fe355W-1A 15 C15E4 St3ps Fe360B St3sp Fe360B	
176	Gr.60	P310NB (1.0437)	1.0437 17Mn4 ASt41	SG325	A42FP1 BS3	224-400 TypeC			
		S460MC (1.0982)	QStE460TM		E445D	50F45			
177	Gr.65	E355 (1.0580)	1.0060 E355 St52 St52-3		E335 ES355 TS-47a TU526	CEW5 CFS5 E335 ERW5NKM ERW5NZF		St6sp	Fe590
178	Gr.70	S500MC (1.0984)	E490D QStE500TM		E490D				FeE490
179	Gr.80	S550MC (1.0986)	QStE550TM		E560D	60F45 60F55			FeE560
180	Gr.9840	36CrNiMo4 (1.6511)	36CrNiMo4	SCNM439	40NCD3	817A37 817M37		40KHN2MA	36CrNiMo4
181	Gr.C		1.0028 1.0036 St34-2 USt37-2	SS330 STKM12A	A34-2 S235JRG1	CEW2BK Fe360B	A3 Q235	16D 18kp St3kp	Fe360B
182	Gr.N1	C18D (1.0416)	GS38	SC37	20-40M	AM1		15L	20-40
183	H10	32CrMoV12-28 (1.2365)	X32CrMoV3-3	SKD7	32CDV12-28	BH10		3KH3M3F	32CrMoV12-28
184	H11	X37CrMoV5-1 (1.2343)	X38CrMoV5-1	SKD6	Z38CDV5	BH11	4Cr5MoSiV	4KH5MFS	X37CrMoV5-1

BBS	X30WCrV9-3
186	CENIC NA NE
188 N.08936 XINIC/MoCUNZ5-20-7 (1.4526) 50WC/Y7 55WC20 851 6C/WZ51 5KHVZ5 5WC20 191 330415 330415 36C/NSINCe19-10 (1.4818) 72C/NU18-09F 22C/NU18-10 72C/NU18-09F 22C/NU18-10 72C/NU18-10 72C	55NiCrMoV7
189	HS6-5-2
189	
191 S30415	
192 S30430 X3CrNICu18-94 (1.4567) SUSXM7 Z3CNU18-010 Z3CNU18-10 Z3CNU	60WCrV8
192 \$30430	
194 \$310050	
195	X7CrNiSiNCe21-11
196	
197 S32304 X2CrNiN23-4 (1.4362) Z3CN23-04A2 O3KH23N6 198 S32654 X1CrNiMcOuW125-7-4 (1.4410) Z3CND25-06A2 199 S32750 X2CrNiMonu25-7-4 (1.4501) 200 S32760 X2CrNiMnMonuW125-7-4 (1.4501) 201 S34565 X2CrNiMnMonuW125-7-4 (1.4501) 202 S35315 X6NiCrSiNce35-25 (1.4854) 203 S40977 X2CrNiI0 (1.4003) Z3CND25-06A2 204 S41500 X3CrNiIMo13-4 (1.4313) Z6CN13-04 205 S43932 X2CrTiNb18 (1.4509) Z3CTNb18 206 S43940 Z3CrNiB8 207 SAE1008 DC01 (1.0330) FeP01 SPCC F12 FeP01 O8F O8F 208 SAE1010 DC01 (1.0330) S112 SPCC F12 FeP01 O8F O8F 209 SAE1020 C22 (1.0402) C22 C22 S22C O70M20 20 20 201 SAE1030 C30 (1.0528) C30 C30 S30C XC32 En5 30 30 211 SAE4130 Z5CrMo4 (1.7218) Z5CrMo4 SCM420 SCM420 SCM430 Z5CD4 T08M25 30CrMo 30KHM 30KHMA 212 SAE5115 16MnCr5 (1.7131) 16MnCr5 SMnC420H Z0MC5 Z0CrMn 20CrMnTi 18KHG 20CrMnTi 20CrMnT	
198 S32654 X1CrNIMoCuN24-22-8 (1.4652)	
199 S32750 X2CrNiMoN25-7-4 (1.4410) Z3CND25-06Az	
199 \$3.7/50 \$2CrNiMoCuWN25-7-4 (1.4501)	
200 S32760 X2CrNiMoCuWN25-7-4 (1.4501)	
201 \$34565 \$2CrNiMnMoN25-18-6-5 (1.4565)	
202 S35315 X6NiCrSiNCe35-25 (1.4854)	
203 S40977 X2CrNi12 (1.4003) Z6CN13-04 Z6CN1	
204	
205 S43932 X2CrTINb18 (1.4509) Z3CTNb18 Z3CTNb18	
206 S43940 X2CrTiNb18 (1.4509) Z3CTNb18 Z3CTNb18	
206	
DC01 (1.0330) SPCC F12 CK4 O8 O8F O8F	
208 SAE1010 DC01 (1.0330) St12 SPCC F12 FeP01 O8F O8ps	
209 SAE1020 C22 (1.0402) C22 S22C 070M20 20 20 20	Cr01 CR22
210 SAE1030 C30 (1.0528) C30 Ck30 S30C XC32 En5 30 30 30	C25
211 SAE4130 25CrMo4 (1.7218) 25CrMo4 SCM420 SCM430 25CD4 708M25 CFS10 30CrMo 30KHM 30KHMA 212 SAE5115 16MnCr5 (1.7131) 16MnCr5 16MnCr5 527M17 590M17 15CrMn 16MnCr 20CrMnTi 20CrMnTi 20CrMnTi 20CrMnTi 20CrMnTi 20CrMnTi 20CrMnTi 20CrMnTi 20MnCr 18KHG 213 SAE5120 20MnCr5 (1.7147) 20MnCr5 SMnC420H 20MC5 20CrMnTi 20MnCr 18KHG 214 T1 HS18-0-1 (1.3355) HS18-0-1 SKH 5KH2 Z80WCV18-04-01 BT1 W18Cr4V R18 215 Type420 X39Cr13 (1.4031) X39Cr13 Z40C13 X39Cr13 4C13 40KH13 216 W1-7 C70L/(1.1520) 1.1620 SK6 C70E2LL T7 LIZ	C30 C30E4
212 SAE5115 16MnCr5 (1.7131) 16MnCr5 16MnCr5 52/M17 590M17 16MnCr 20CrMnTi 18KHG 213 SAE5120 20MnCr5 (1.7147) 20MnCr5 SMnC420H 20MC5 20CrMn 20CrMnTi 20CrMnTi 20MnCr 18KHG 214 T1 HS18-0-1 (1.3355) HS18-0-1 SKH 5KH2 Z80WCV18-04-01 BT1 W18Cr4V R18 215 Type420 X39Cr13 (1.4031) X39Cr13 Z40C13 X39Cr13 4C13 40KH13 216 W1-7 C70L (1.1520) 1.1620 SK6 C70E2LL T7 LIZ	25CrMo4
213 SAE5120 20MnCr5 (1.7147) 20MnCr5 SMnC420H 20MC5 20CrMnTi 20MnCr 18KHG 214 T1 HS18-0-1 (1.3355) HS18-0-1 SKH SKH2 Z80WCV18-04-01 BT1 W18Cr4V R18 215 Type420 X39Cr13 (1.4031) X39Cr13 Z40C13 X39Cr13 4C13 40KH13 216 W1-7 C70H (1.1520) 1.1620 SK6 C70F2H T7 HZ	16MnCr5
214 11 HS18-U-1 (1.3355) HS18-U-1 SKH2 Z80WCV18-U4-U1 B11 W18Cr4V K18 215 Type420 X39Cr13 (1.4031) X39Cr13 Z40C13 X39Cr13 4C13 40KH13 216 W1-7 C70IJ (1.1520) 1.1620 SK6 C70E2IJ T7 J17	20MnCr5
216 W1-7 C70II (1 1520) 1.1620 SK6 C70E2II T7 II7	HS18-0-1
12161 W1-7 I (7011/11520) I I I (70E211 I I I/ I I/	
	C70U
217 W110 C90U (1.1535) C105W2 SK4 C105E2U T10 U10	
218 W5 C105U (1.1545) C105W1 SK3 C105E2U BW1B T10A U10A	C105U
219 WCC G17Mn5 (1.1131) GS-16Mn5 20M5M G17Mn5	
220 X42 L290NB (1.0484) StE290.7	
L290MB (1.0429) StE290.7TM	
S355G14 (1.1184)	
221 X52 L360NB (1.0582) StE360.7	
L360MB (1.0578) StE360.7TM	
L415NB (1.8972) StE415.7	
222 X60 L415MB (1.8973) StE415.7TM	
223 X65 L450MB (1.8975) StE445.7	
224 X70 L485MB (1.8977) StE480.7TM	
225 X80 L555MB (1.8978)	

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