



ZBRF 中博铁路

KEEP YOUR TRACK ON TRACK! 

TAICANG ZHONGBO

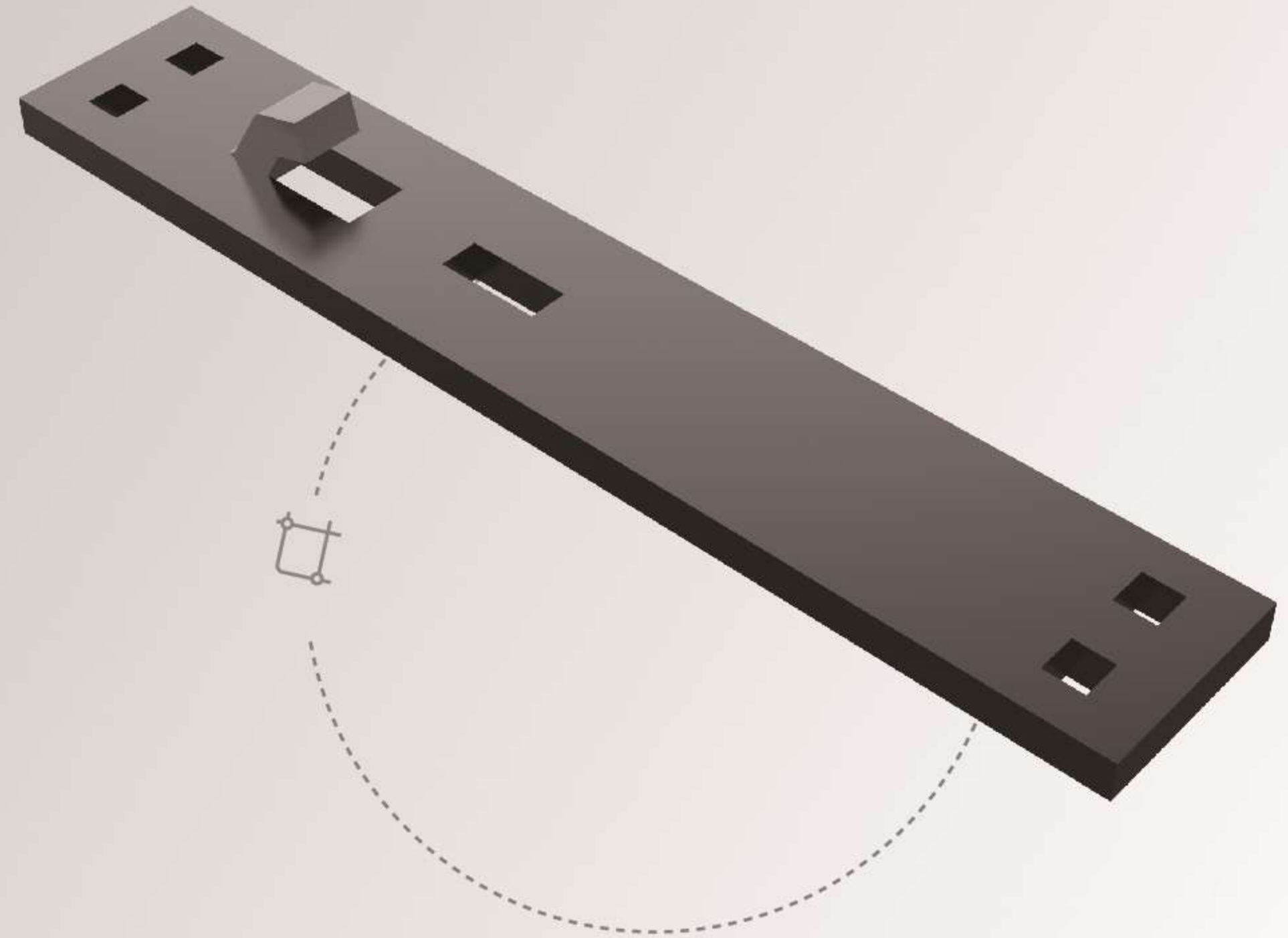
RAILWAY FASTENING



FASTENERS FOR TURNOUTS



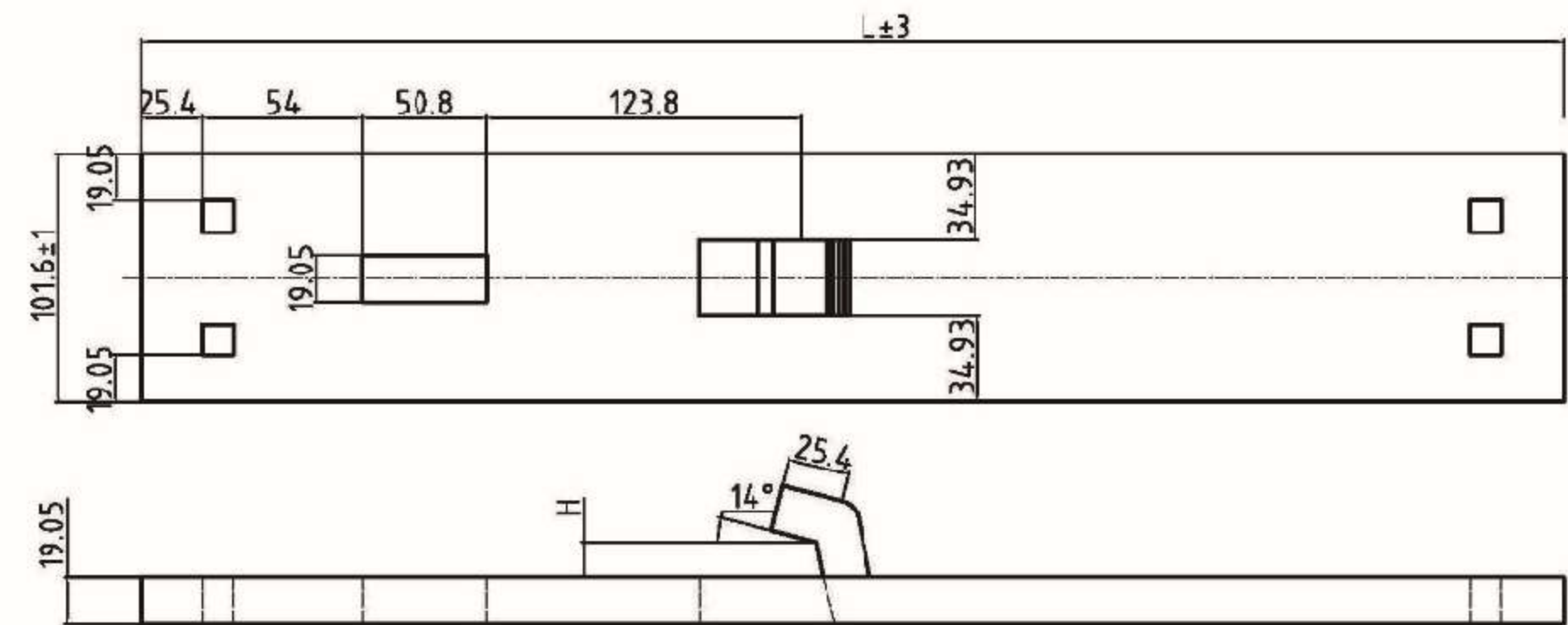
PRODUCT PROFILE



- Hook twin tie plate

Application:

Used for turnout



Technical Parameters

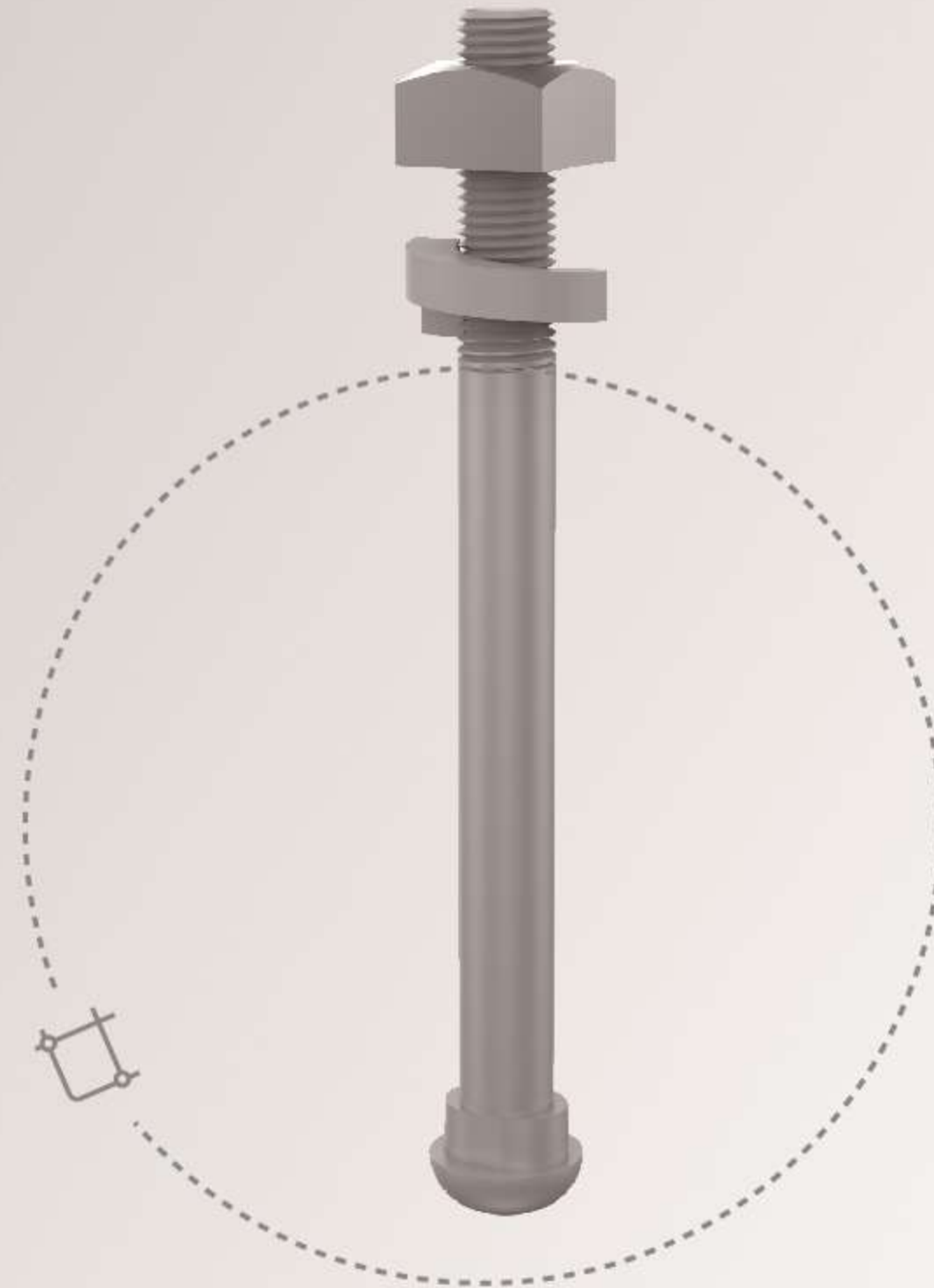
Material	Mild steel
Standard	TS-503

Main Size

LR23	L31
LR27	H23
LR31	H27
LR23J	H31
LR27J	H35
LR31J	L23J
L23	L27J
L27	H31J



• Button Head Oval Neck Frog Bolt

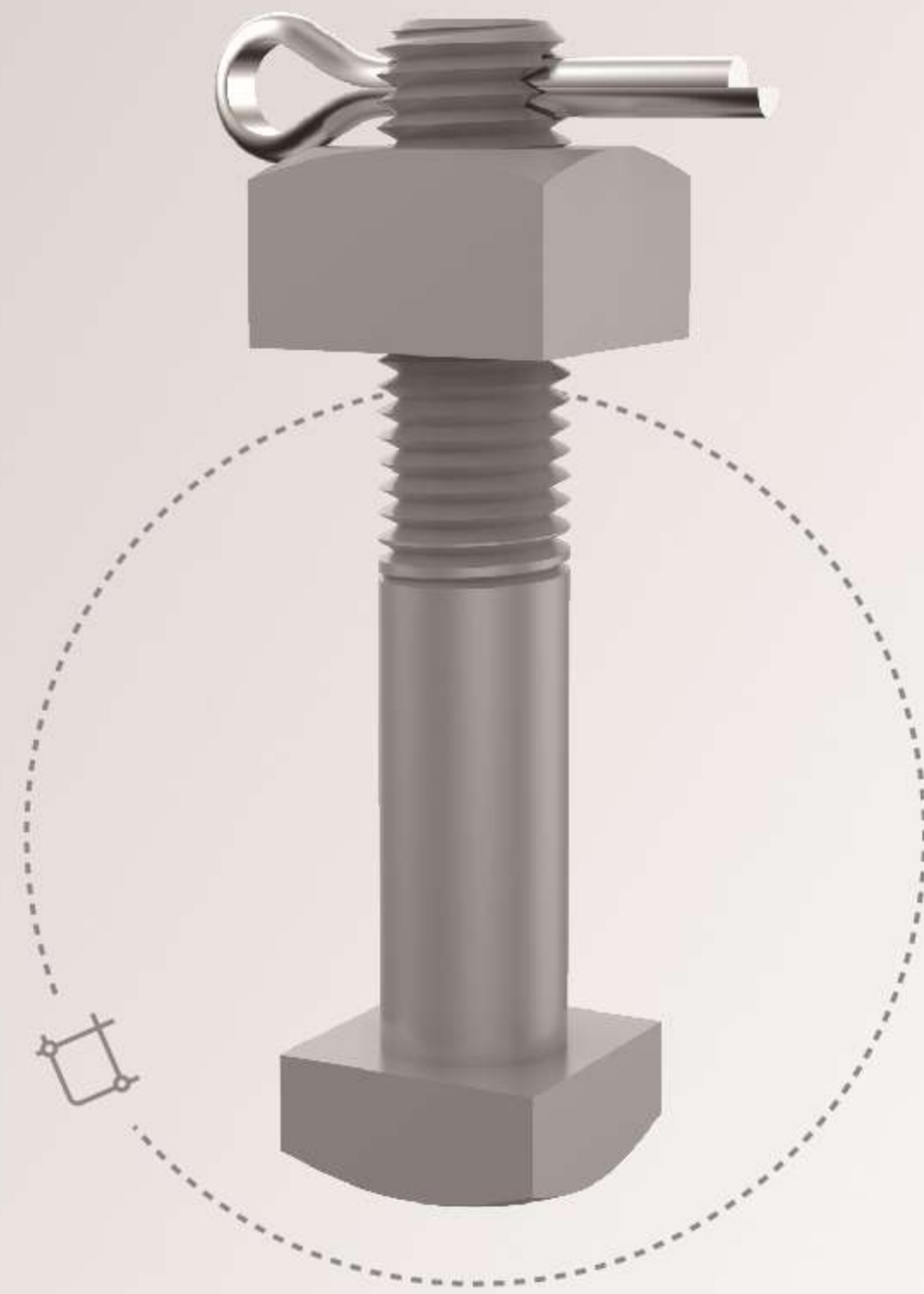


Size and Specification :

Size	Description	Material Grade
1x7	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x7-1/2	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x8	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x8-1/2	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x9	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x10	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x10-1/2	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x11	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x11-1/2	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x12	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x13	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x14	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x14-1/2	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x15	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x16	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x17	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x18	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8X7	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x8	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x9	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8X9-1/2	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x10	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x11	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x12	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8

Size	Description	Material Grade
7/8x13	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x14	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x15	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
7/8x16	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x6-3/4	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x7-1/2	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x8	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x9	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x10	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x11	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x12	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x13	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x14	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/8x15	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/4x8	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-3/8X8	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
15/16x16	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/16X12	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/16X13	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/16X14	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/16X15	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1-1/16X16	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8
1x13-1/2"	Button Head Oval Neck Bolt w/Free Fit Nut	Gr5 and Gr8

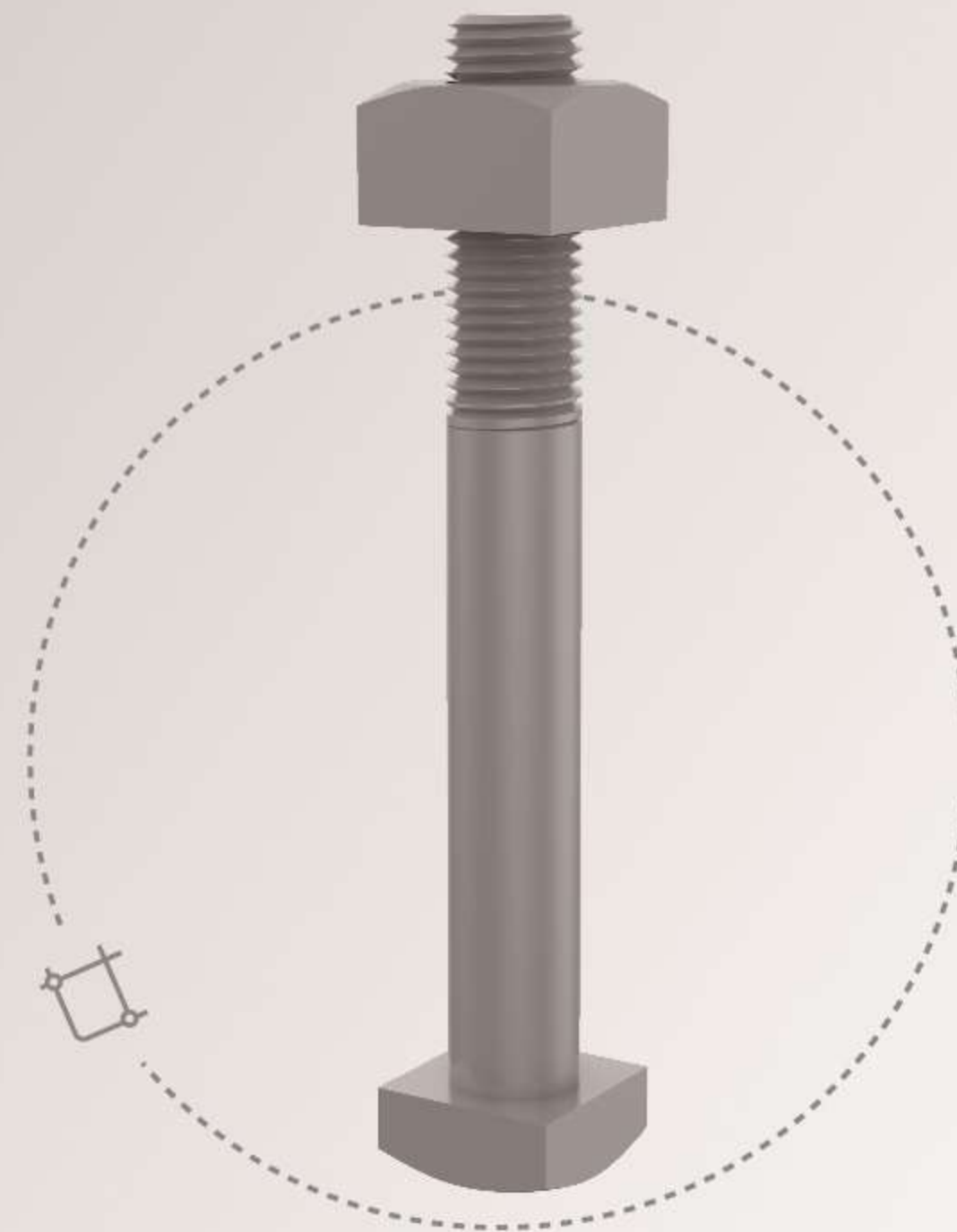
PRODUCT PROFILE



- Square Head Bolt Drilled with Square Nut and Cotter Key

Size And Specification:

Size	Description	Material Grade
3/4x2-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
3/4x3	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
3/4x3-1/4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
3/4x3-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
3/4x3-3/4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
3/4x4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
3/4x4-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
3/4x4-3/4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
7/8x2-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
7/8x4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
7/8x4-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1X3-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x3-3/4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x4-3/4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x4-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x5	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x5-3/4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x5-1/4	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x5-1/2	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1x6	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5
1-1/8x5	Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" cotter key	Gr5



- Square Head Bolt Gr5 with Heavy Square Nut

Size and Specification:

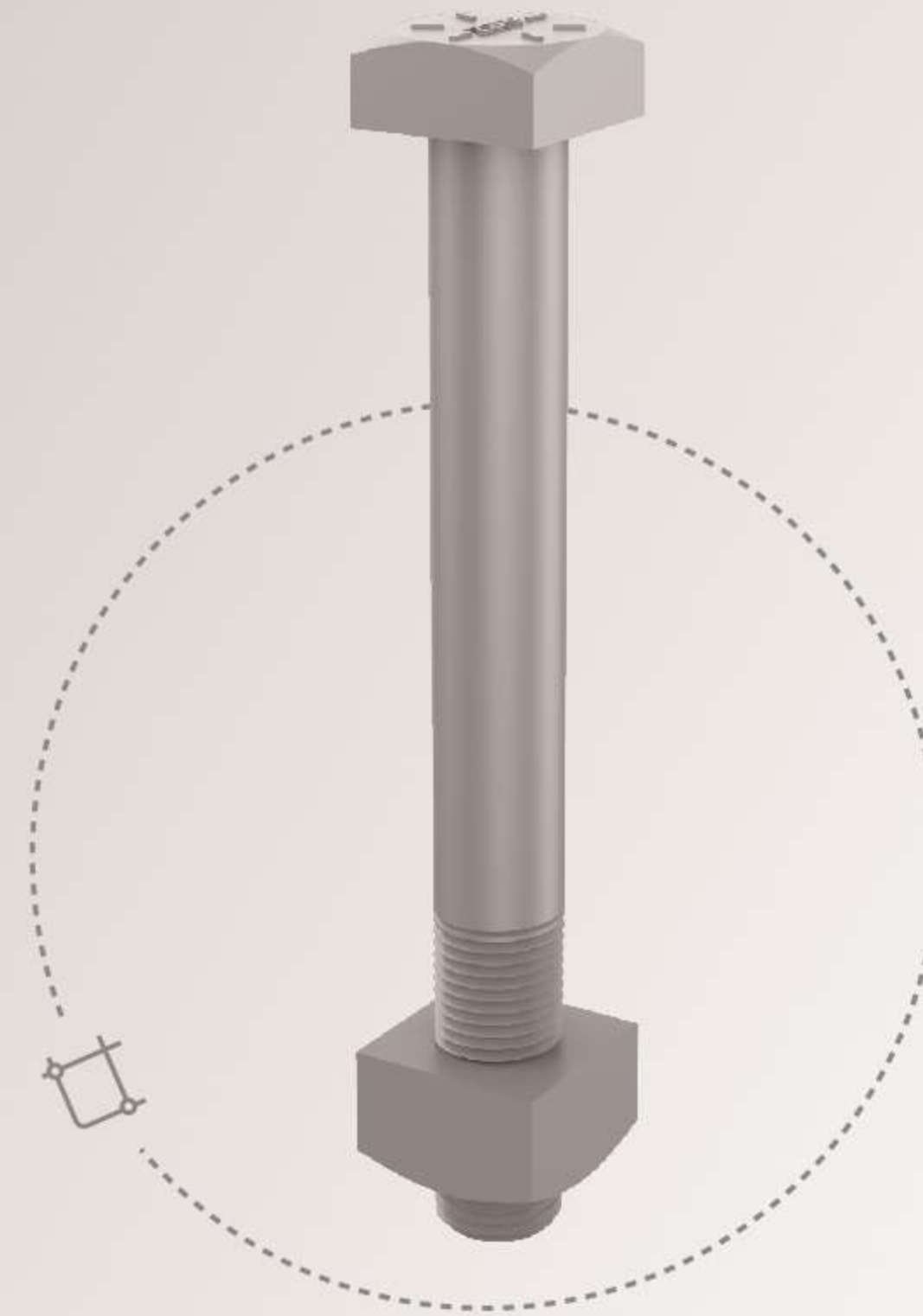
Size	Description	Material Grade
3/4x9	Square Head Bolt w/Free Fit Nut	Gr5
3/4x10	Square Head Bolt w/Free Fit Nut	Gr5
3/4x11	Square Head Bolt w/Free Fit Nut	Gr5
3/4x12	Square Head Bolt w/Free Fit Nut	Gr5
3/4x13	Square Head Bolt w/Free Fit Nut	Gr5
3/4x14	Square Head Bolt w/Free Fit Nut	Gr5
3/4x20-1/2	Square Head Bolt w/Free Fit Nut	Gr5
3/4x24	Square Head Bolt w/Free Fit Nut	Gr5
3/4x24-1/2	Square Head Bolt w/Free Fit Nut	Gr5
7/8X2-1/2	Square Head Bolt w/Free Fit Nut	Gr5
7/8x2-3/4	Square Head Bolt w/Free Fit Nut	Gr5
7/8X3	Square Head Bolt w/Free Fit Nut	Gr5
7/8X3-1/2	Square Head Bolt w/Free Fit Nut	Gr5
7/8"x4"	Square Head Bolt w/Free Fit Nut	Gr5
7/8X4-1/4	Square Head Bolt w/Free Fit Nut	Gr5
7/8x5	Square Head Bolt w/Free Fit Nut	Gr5
7/8x6	Square Head Bolt w/Free Fit Nut	Gr5
7/8X7	Square Head Bolt w/Free Fit Nut	Gr5
7/8x8	Square Head Bolt w/Free Fit Nut	Gr5
7/8x9	Square Head Bolt w/Free Fit Nut	Gr5
7/8x10	Square Head Bolt w/Free Fit Nut	Gr5
7/8x11	Square Head Bolt w/Free Fit Nut	Gr5
7/8X11-1/2	Square Head Bolt w/Free Fit Nut	Gr5
7/8x12	Square Head Bolt w/Free Fit Nut	Gr5
7/8x13	Square Head Bolt w/Free Fit Nut	Gr5
7/8x14	Square Head Bolt w/Free Fit Nut	Gr5
7/8x14-1/2	Square Head Bolt w/Free Fit Nut	Gr5
7/8x15	Square Head Bolt w/Free Fit Nut	Gr5
7/8X16	Square Head Bolt w/Free Fit Nut	Gr5
7/8x18	Square Head Bolt w/Free Fit Nut	Gr5
7/8X20	Square Head Bolt w/Free Fit Nut	Gr5
7/8X22	Square Head Bolt w/Free Fit Nut	Gr5
1x6"	Square Head Bolt w/Free Fit Nut	Gr5
1x7	Square Head Bolt w/Free Fit Nut	Gr5
1x7-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1x8	Square Head Bolt w/Free Fit Nut	Gr5
1x8-1/4	Square Head Bolt w/Free Fit Nut	Gr5
1x8-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1x9	Square Head Bolt w/Free Fit Nut	Gr5
1x9-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1x10	Square Head Bolt w/Free Fit Nut	Gr5
1x11	Square Head Bolt w/Free Fit Nut	Gr5
1x11-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1x12	Square Head Bolt w/Free Fit Nut	Gr5
1x12-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1x13	Square Head Bolt w/Free Fit Nut	Gr5
1x14	Square Head Bolt w/Free Fit Nut	Gr5
1x15	Square Head Bolt w/Free Fit Nut	Gr5
1x16	Square Head Bolt w/Free Fit Nut	Gr5
1x17	Square Head Bolt w/Free Fit Nut	Gr5
1x18	Square Head Bolt w/Free Fit Nut	Gr5
1-1/16X14	Square Head Bolt w/Free Fit Nut	Gr5
1-1/16X14	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x3-1/2	Square Head Bolt w/Free Fit Nut	Gr5

Size	Description	Material Grade
1-1/8x4-1/4	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x4-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8"x4-3/4"	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x5-1/8	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x5-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x6	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x7	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x8	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x8-1/4	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x8-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x9	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x9-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x10	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x10-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x11	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x11-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x12	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x13	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x14	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x15	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x16	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x17	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x18	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x18-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8X19	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8X19-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8X20	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8X21	Square Head Bolt w/Free Fit Nut	Gr5
1-1/8x23	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x8-1/4	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x10	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x10-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x11	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x12	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x13	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x14	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x14-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x15	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x15-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x16	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x16-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x17	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x18	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x18-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x19	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x20	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x22	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x26	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x5	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x8-1/2	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x9	Square Head Bolt w/Free Fit Nut	Gr5
1-1/4x9-1/2	Square Head Bolt w/Free Fit Nut	Gr5

PRODUCT PROFILE



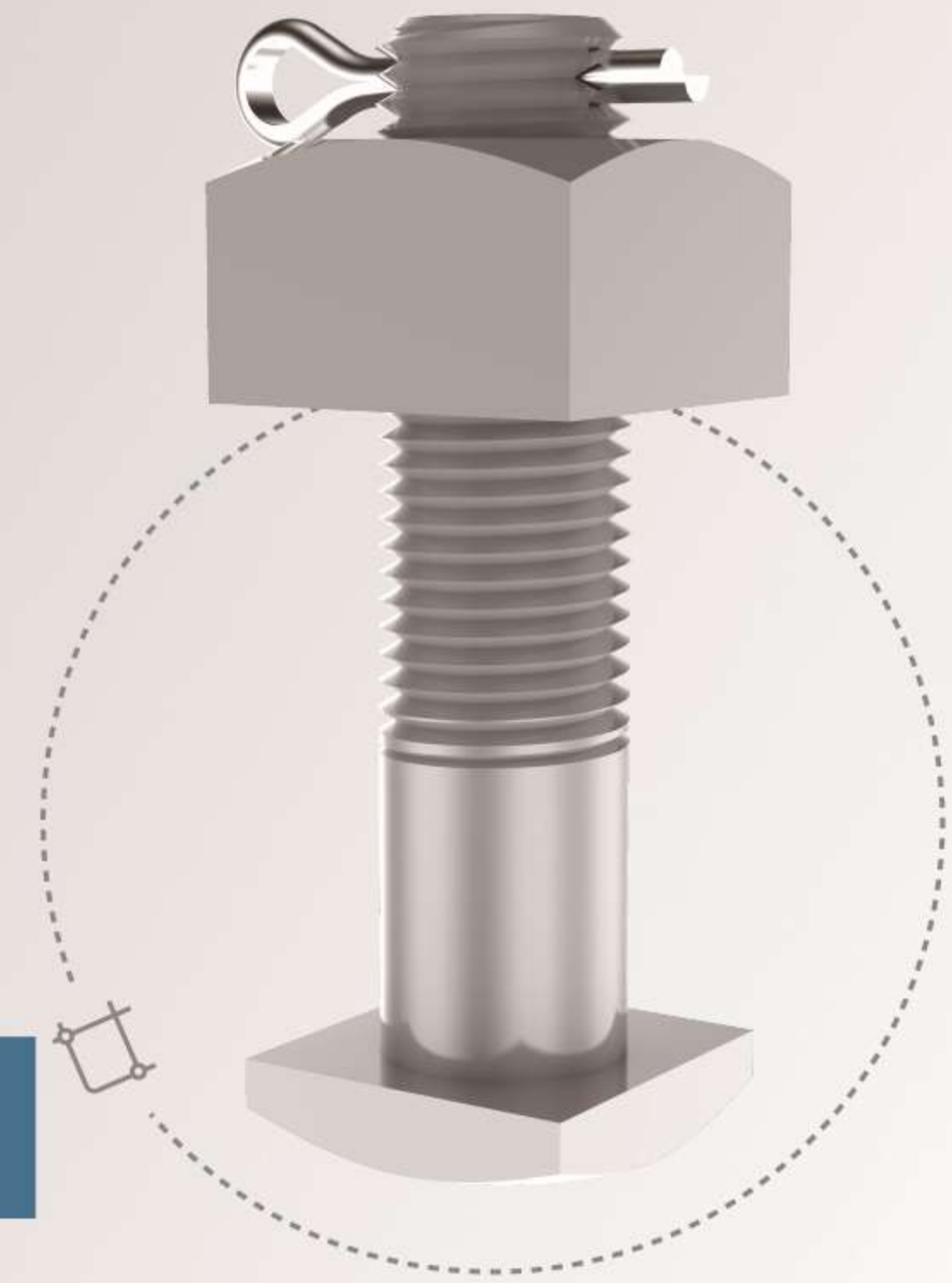
- Square Head Bolt Gr8 with Heavy Square Nut



Size and Specification:

Size	Description	Material Grade
1-3/8x8	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x8-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x9	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x9-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x10	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x10-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x11	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x11-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x12	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x12-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x13	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x13-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x14	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x14-1/2	Square Head Bolt w/Free Fit Nut	Gr8

Size	Description	Material Grade
1-3/8x15	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x15-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x16	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x16-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x17	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x17-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x18	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x18-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x19	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x19-1/2	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x20	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x21	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x23	Square Head Bolt w/Free Fit Nut	Gr8
1-3/8x26	Square Head Bolt w/Free Fit Nut	Gr8

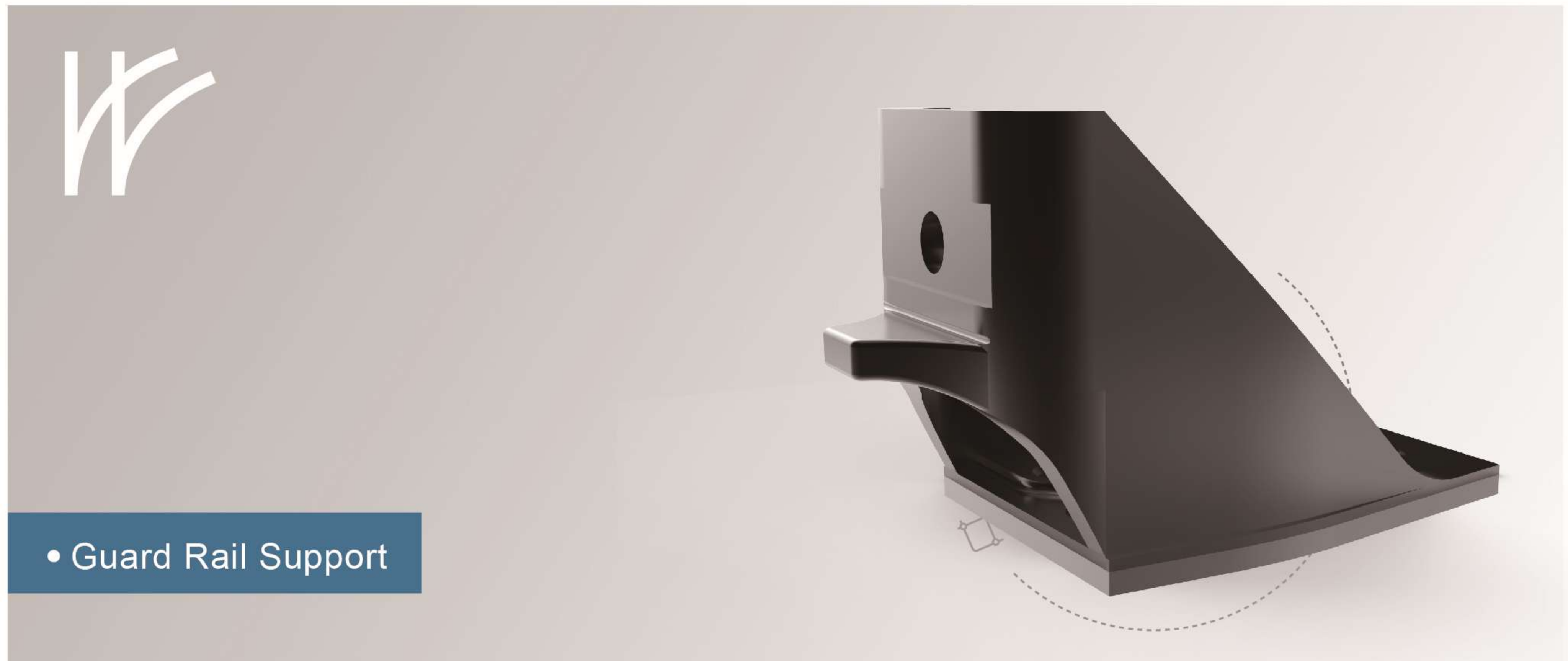


- Thin Head Square Bolt Drilled with Heavy Square Nut and Cotter Key

Size and Specification:

Size	Description	Material Grade
3/4x2-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
3/4x3	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
3/4x3-1/4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
3/4x3-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
3/4x3-3/4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
3/4x4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
3/4x4-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
7/8x3	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
7/8x4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
7/8x4-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x3	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x3-3/4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x3-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x3-1/4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x4-1/4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x4-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x4-3/4	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x5	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1x5-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5
1-1/4x5-1/2	Thin Square Head Bolt w/Free Fit Nut Drilled for and including 1/4" Cotter key	Gr5

PRODUCT PROFILE



Supply Reference:

- 1) Project Greater Cairo Metro-Line 3-Phase 1 Abbasia Workshop 2010
- 2) Project Elsalam Workshop for Greater Cairo Metro-Line 3-Phase 4B 2018

Technical Parameters

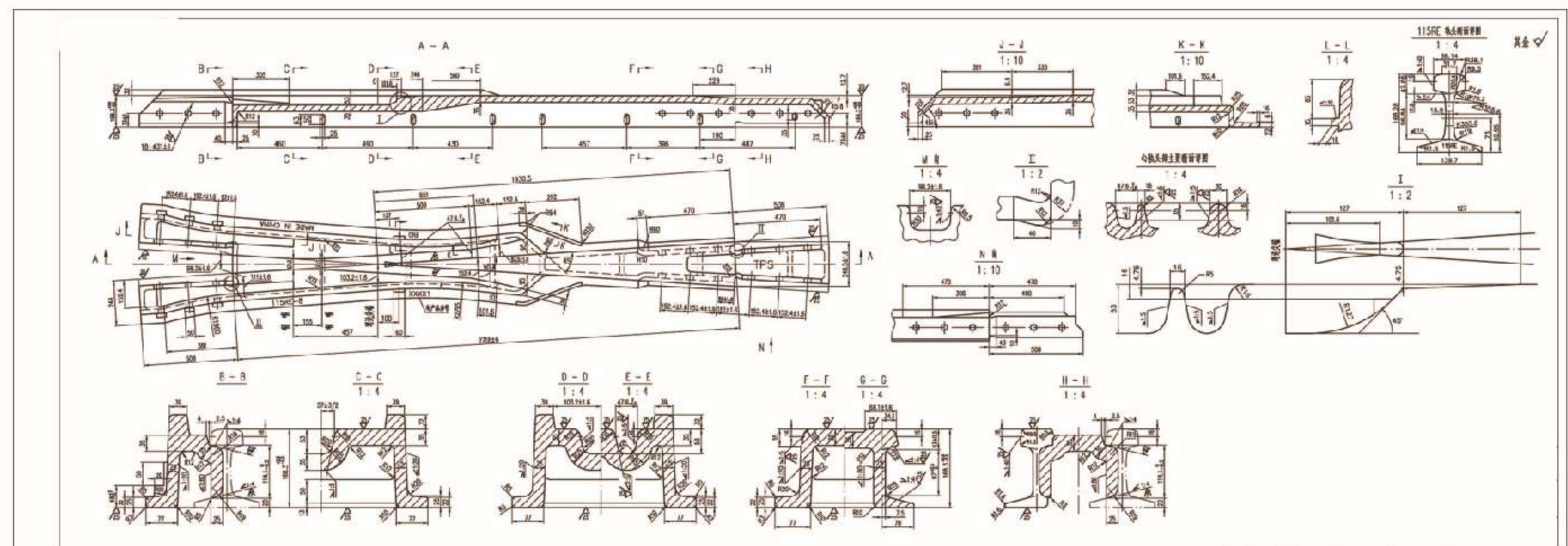
Material	Cast Iron QT500-7
Property	
Tensile strength	≥ 500 Mpa
Elongation	≥ 7%
Hardness	170-230HB



• SMSG Frog

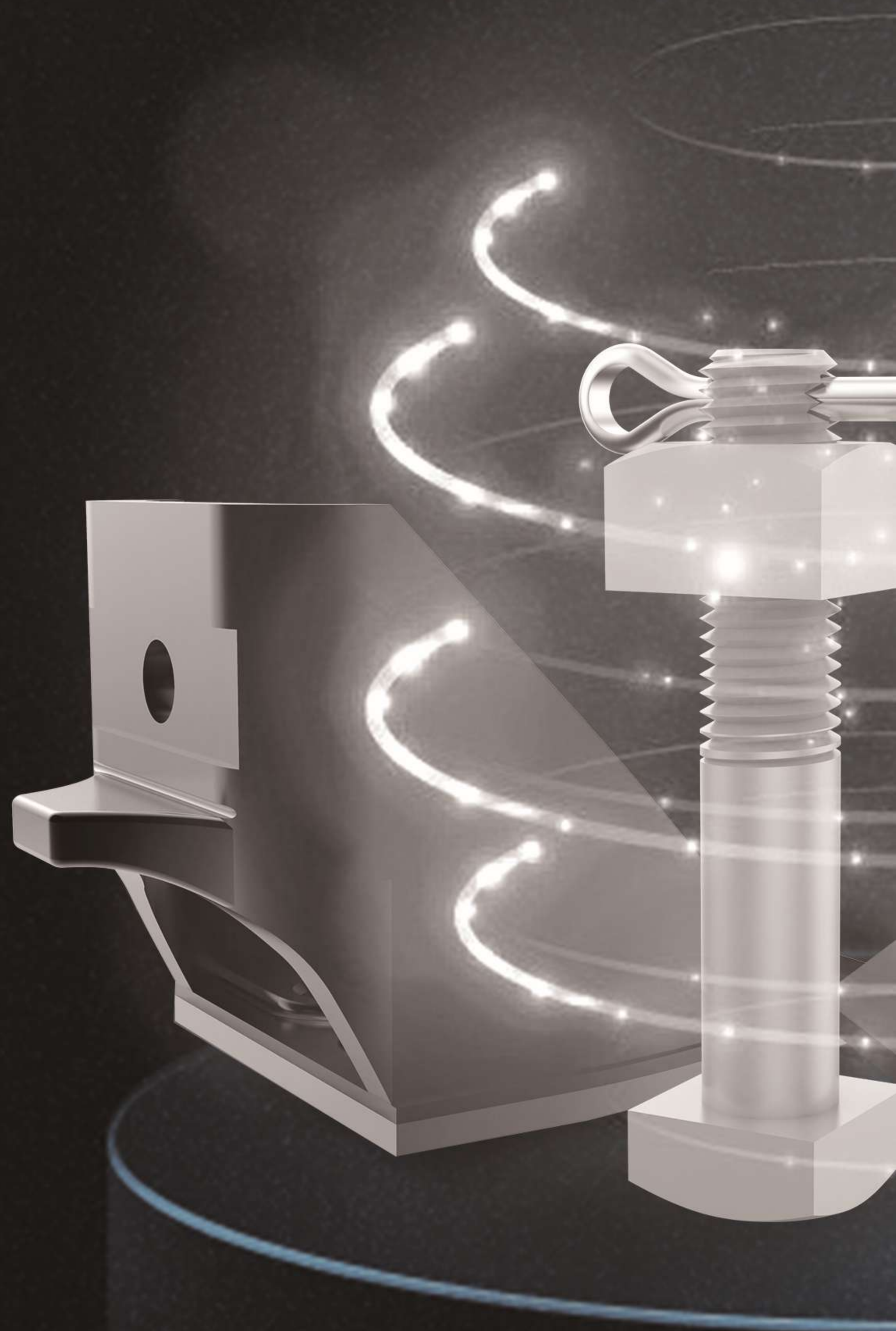
Technical Specification:

To AREMA spec.



Size:

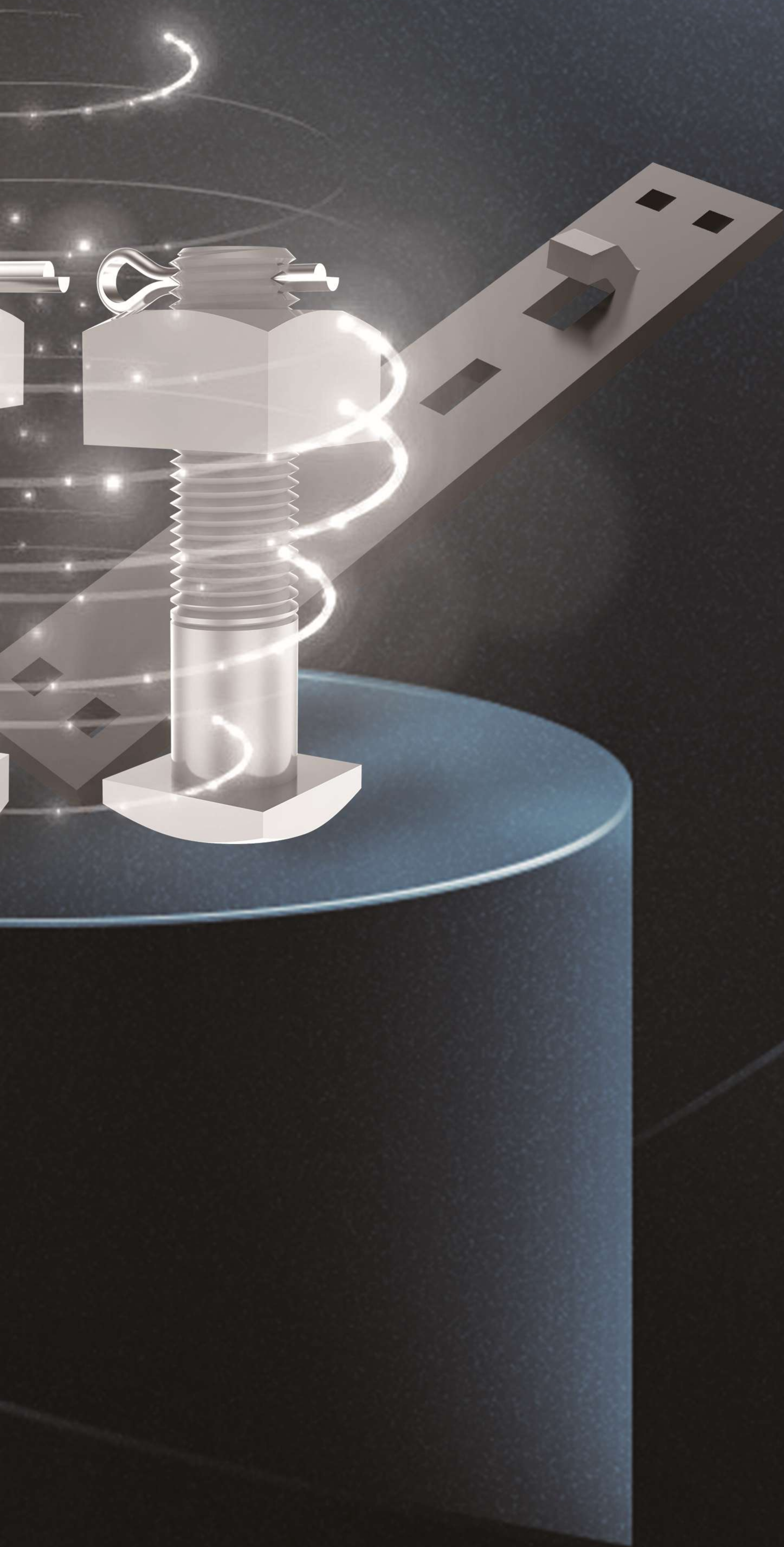
Rail profile	Size
115RE	No.7
115RE	No.8
115RE	No.9
115RE	No.10
136RE	No.7
136RE	No.8
136RE	No.9
136RE	No.10



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