

BAUANLEITUNG

STEM Simple Machines

SEKUNDARSTUFE

TEILE

355

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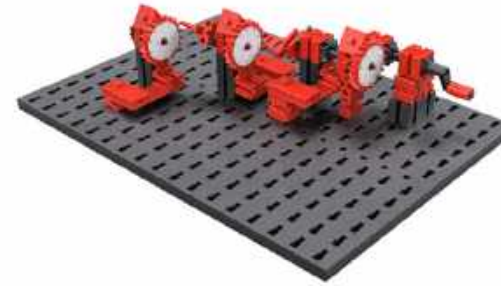
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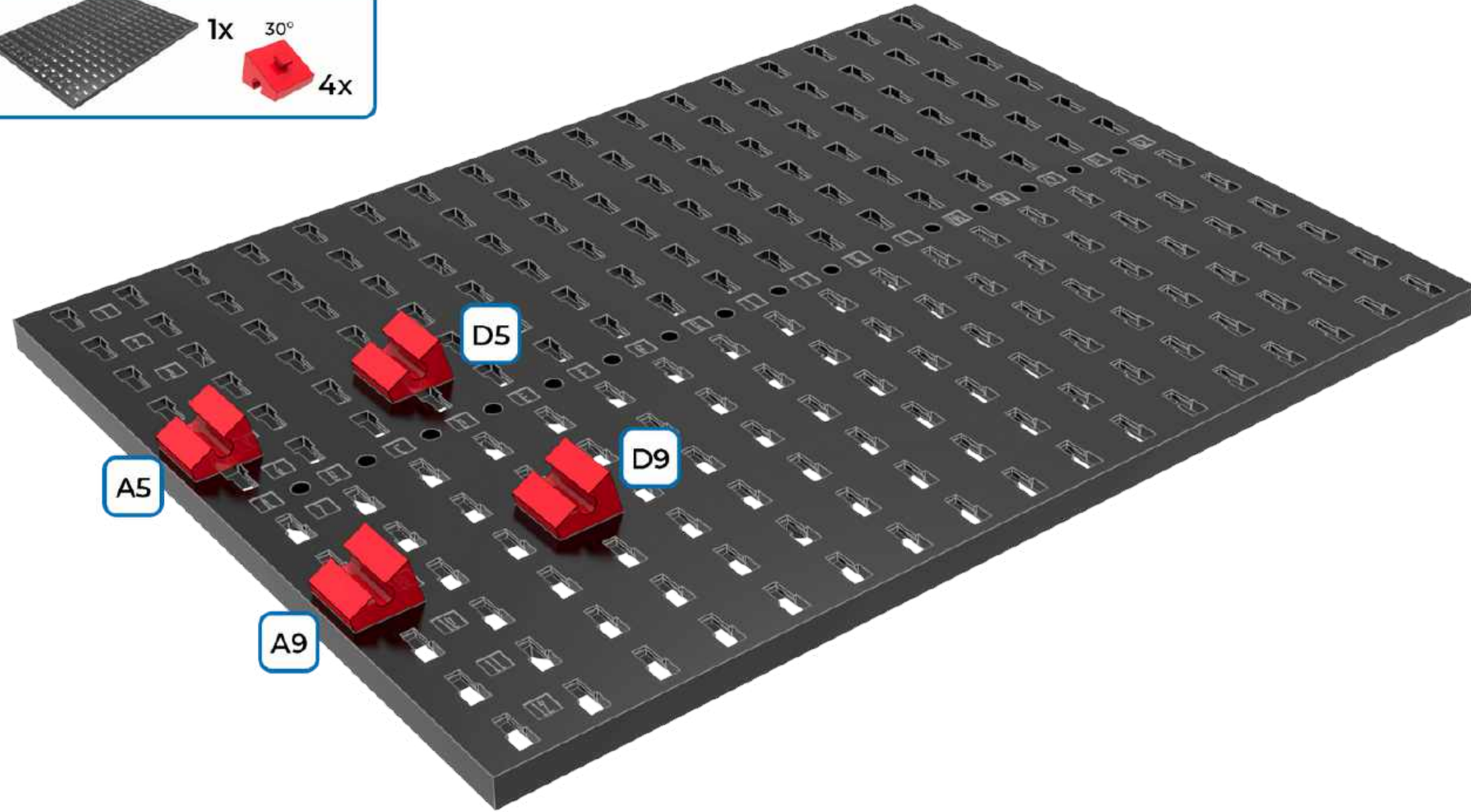
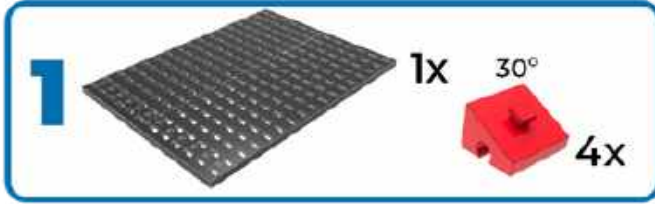
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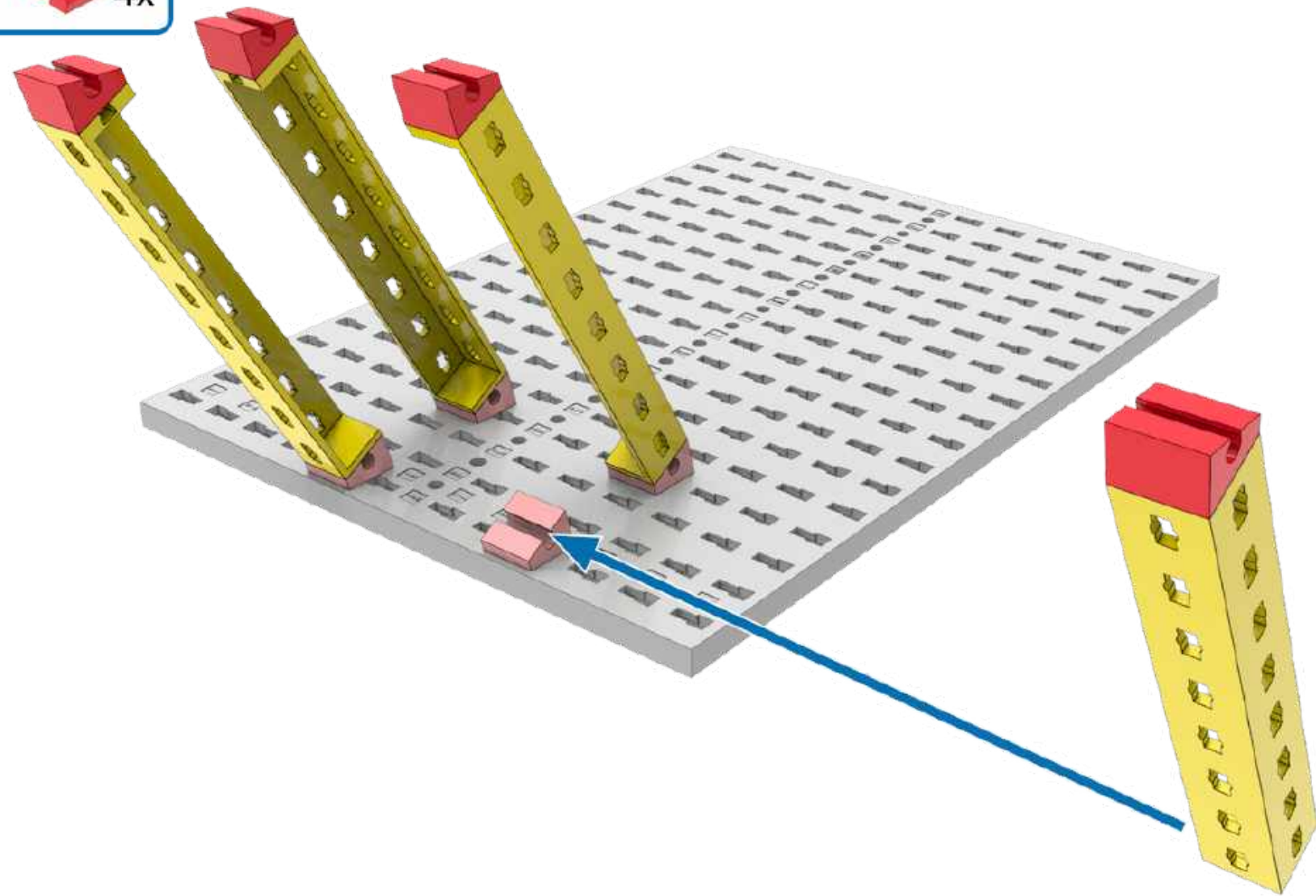
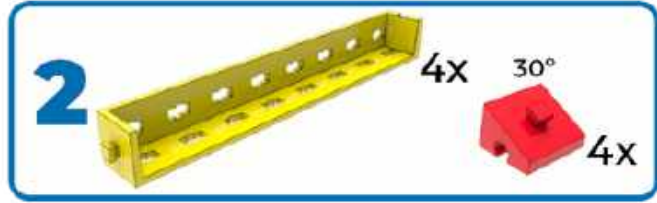


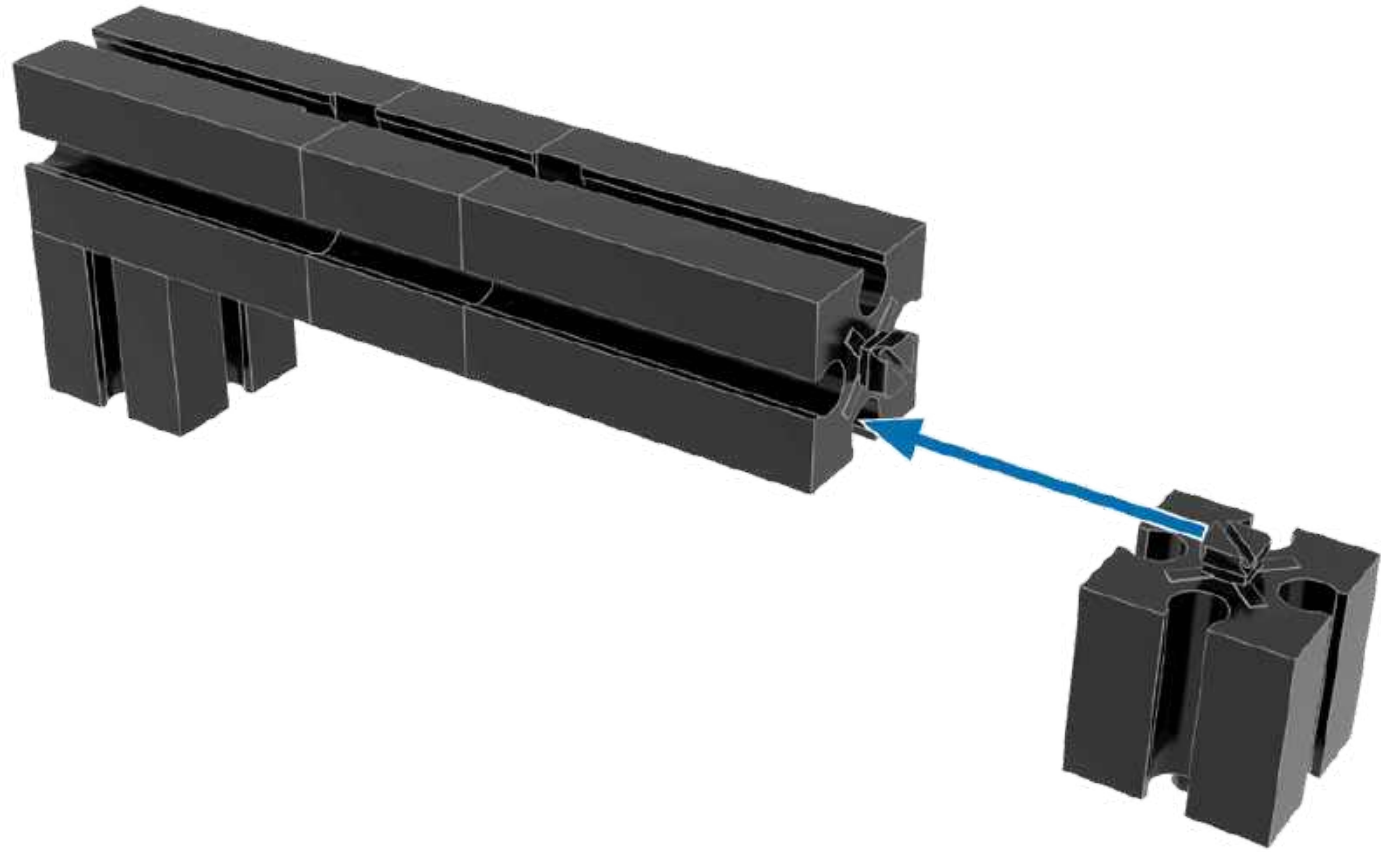
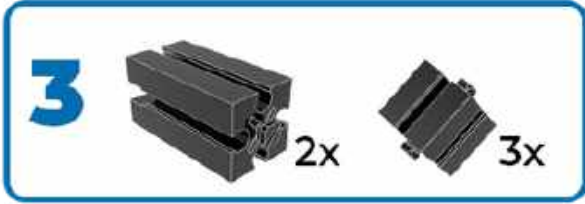
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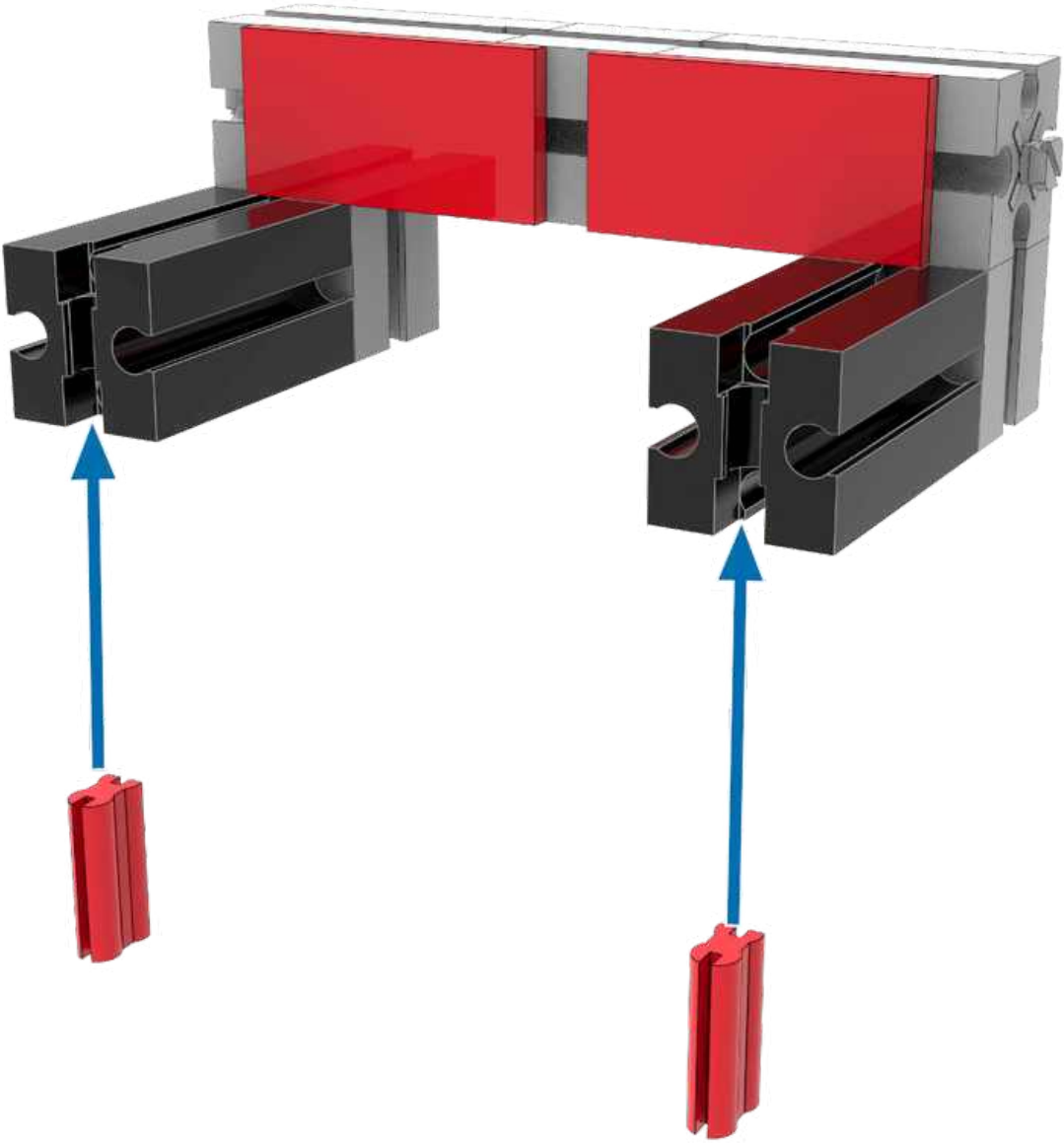
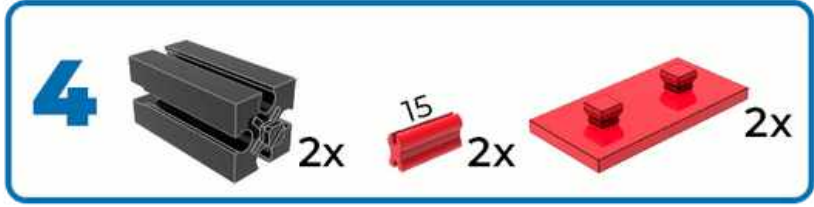
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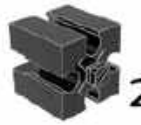



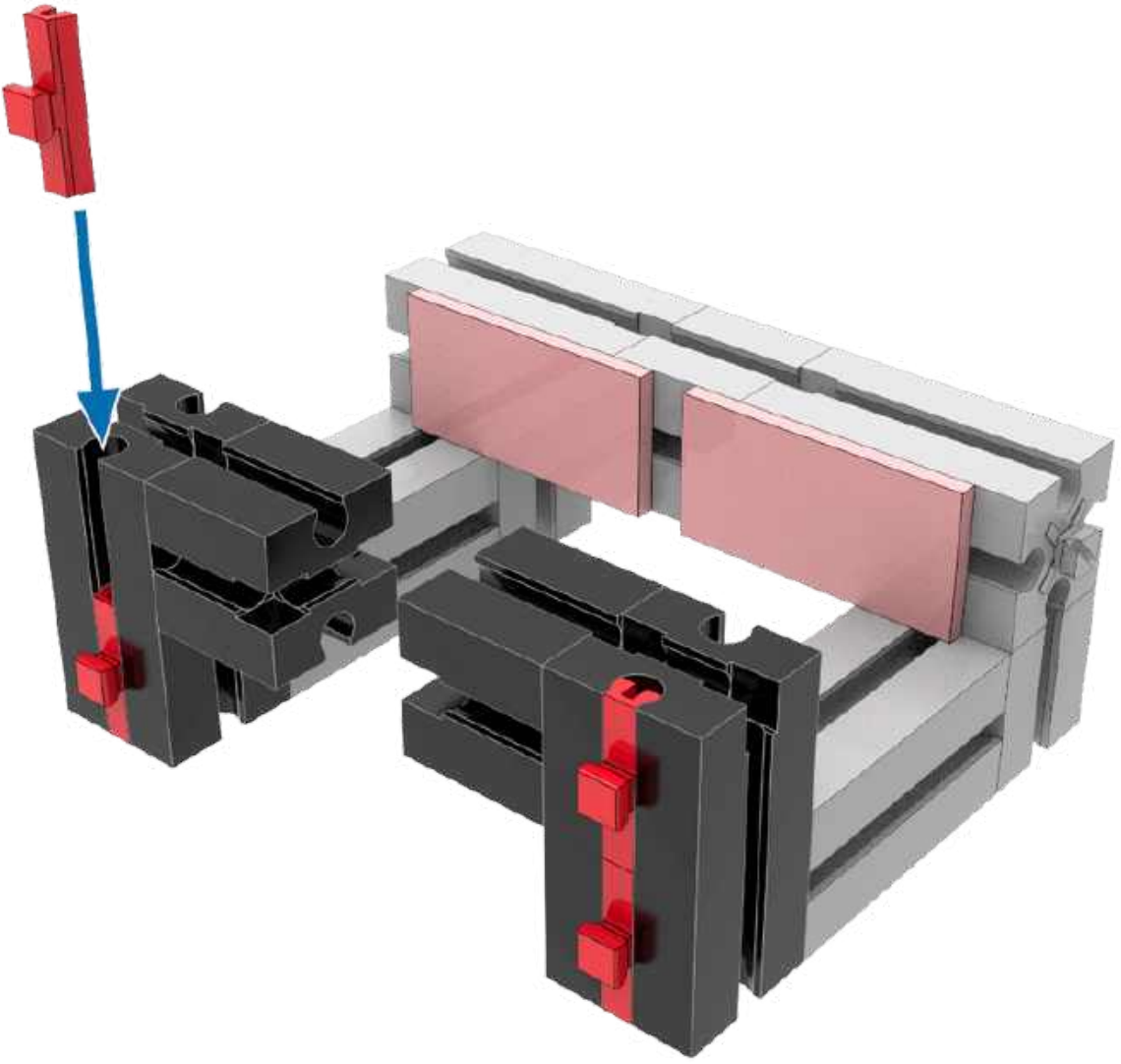


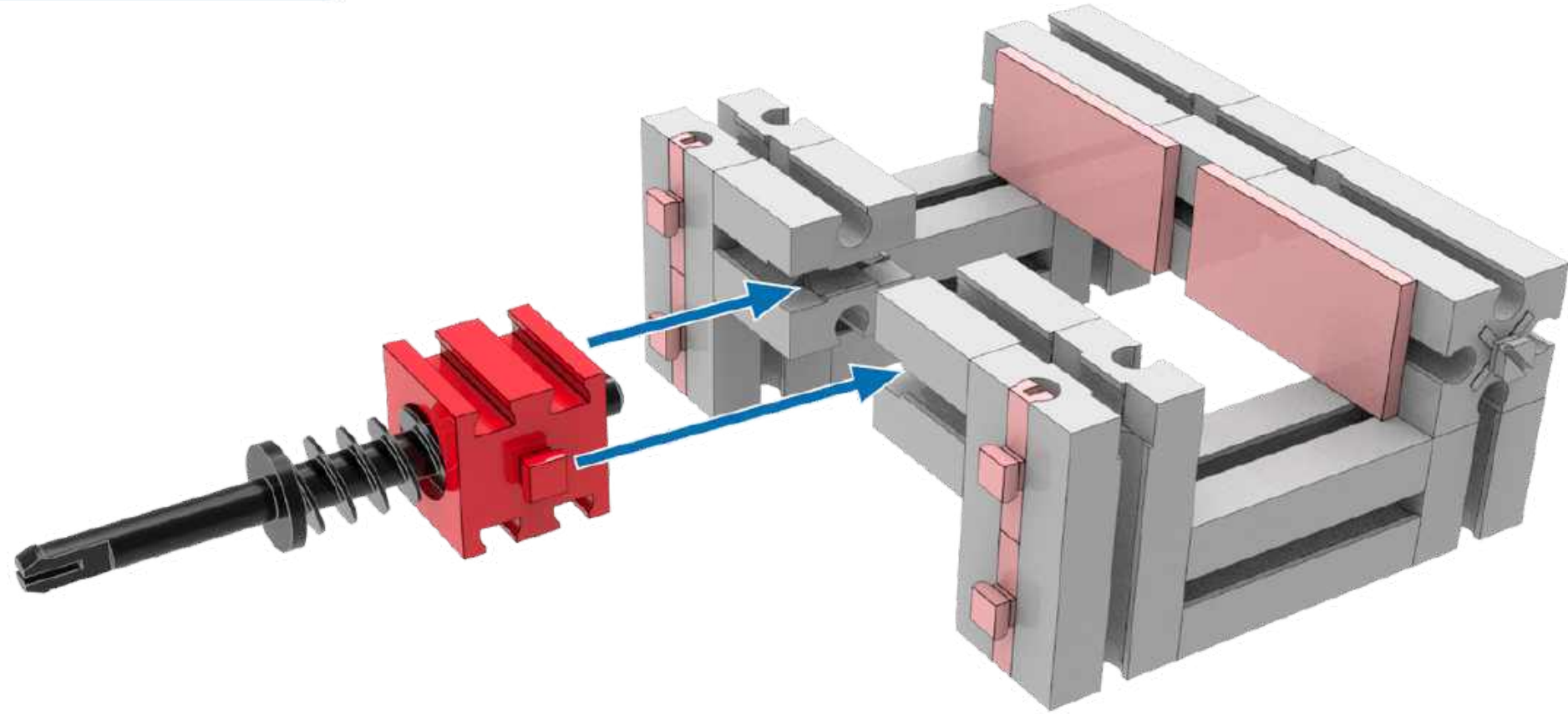
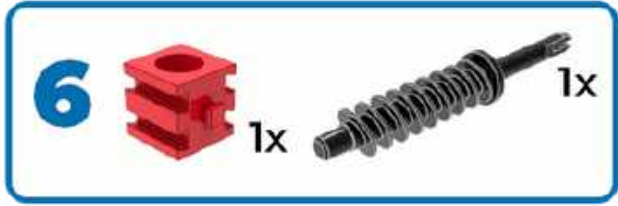






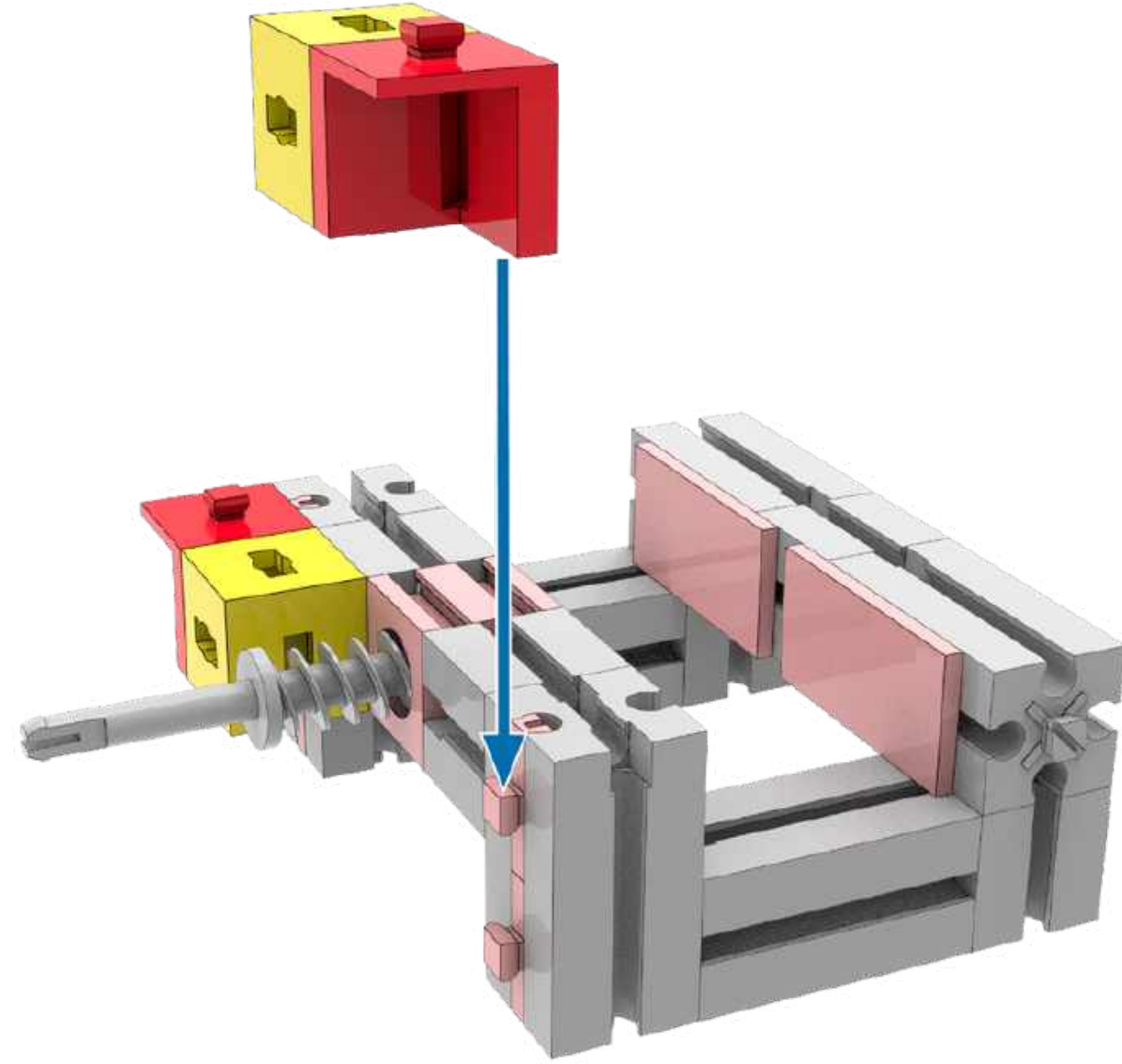


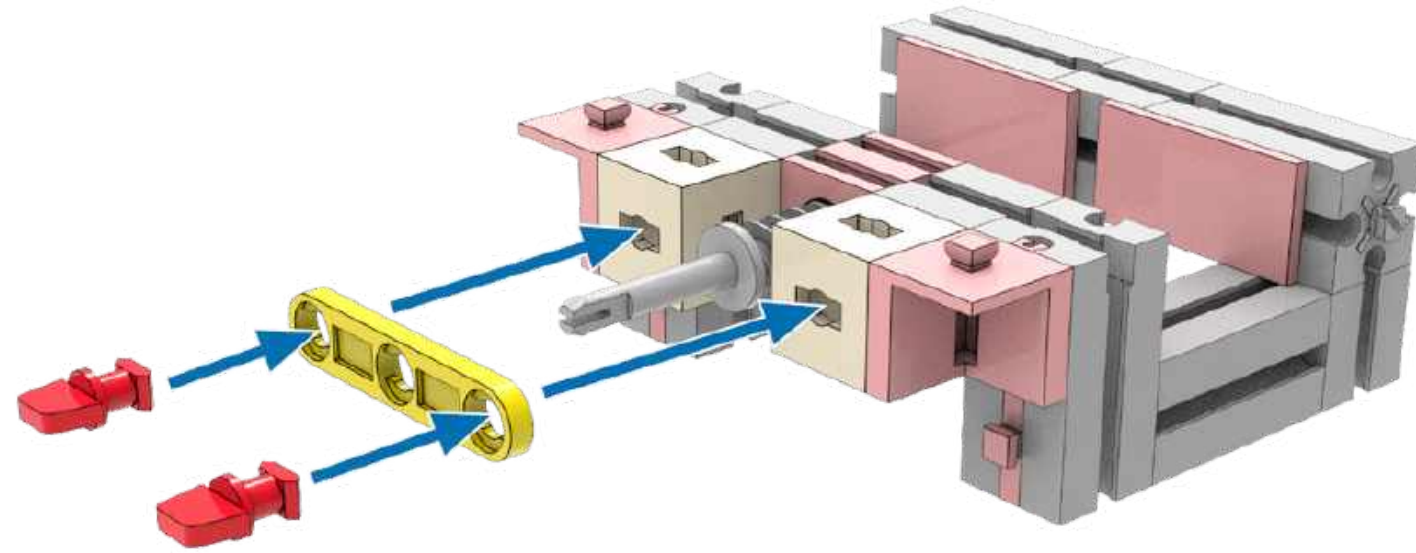
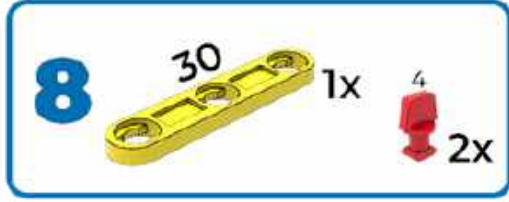
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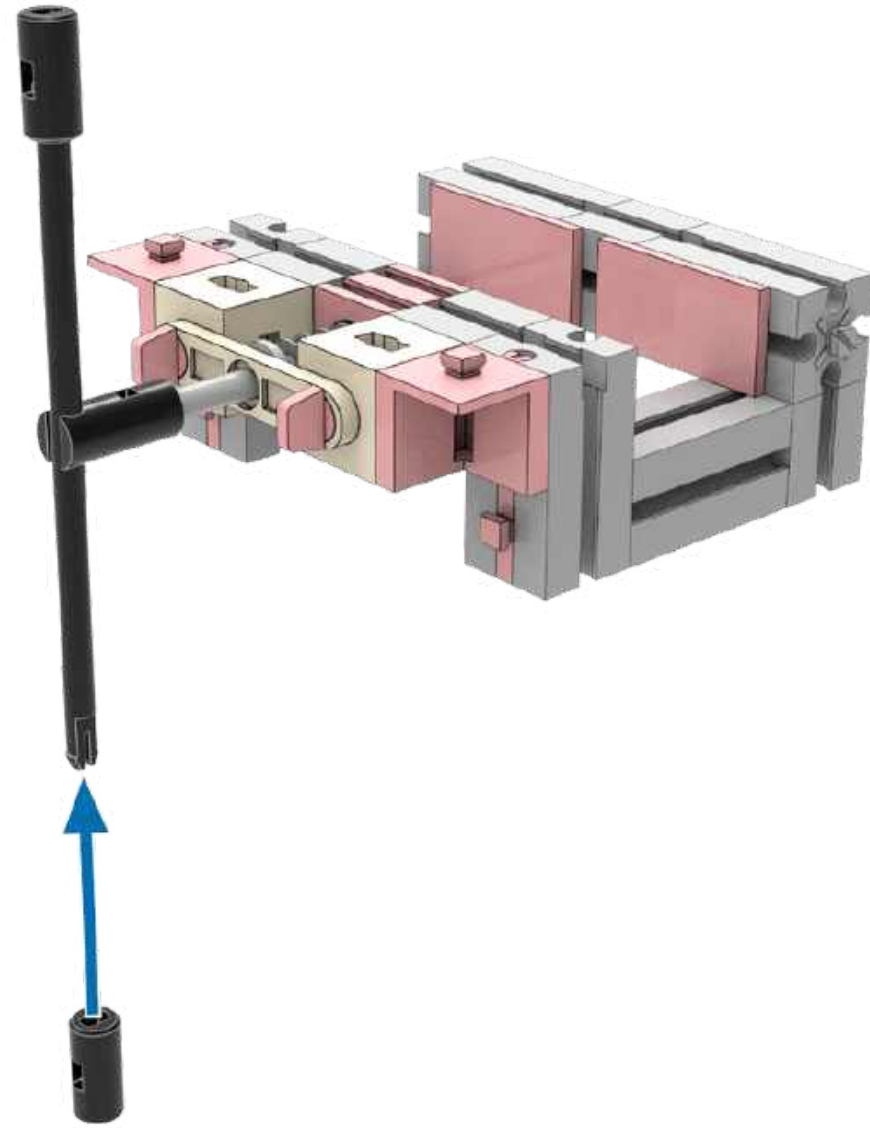


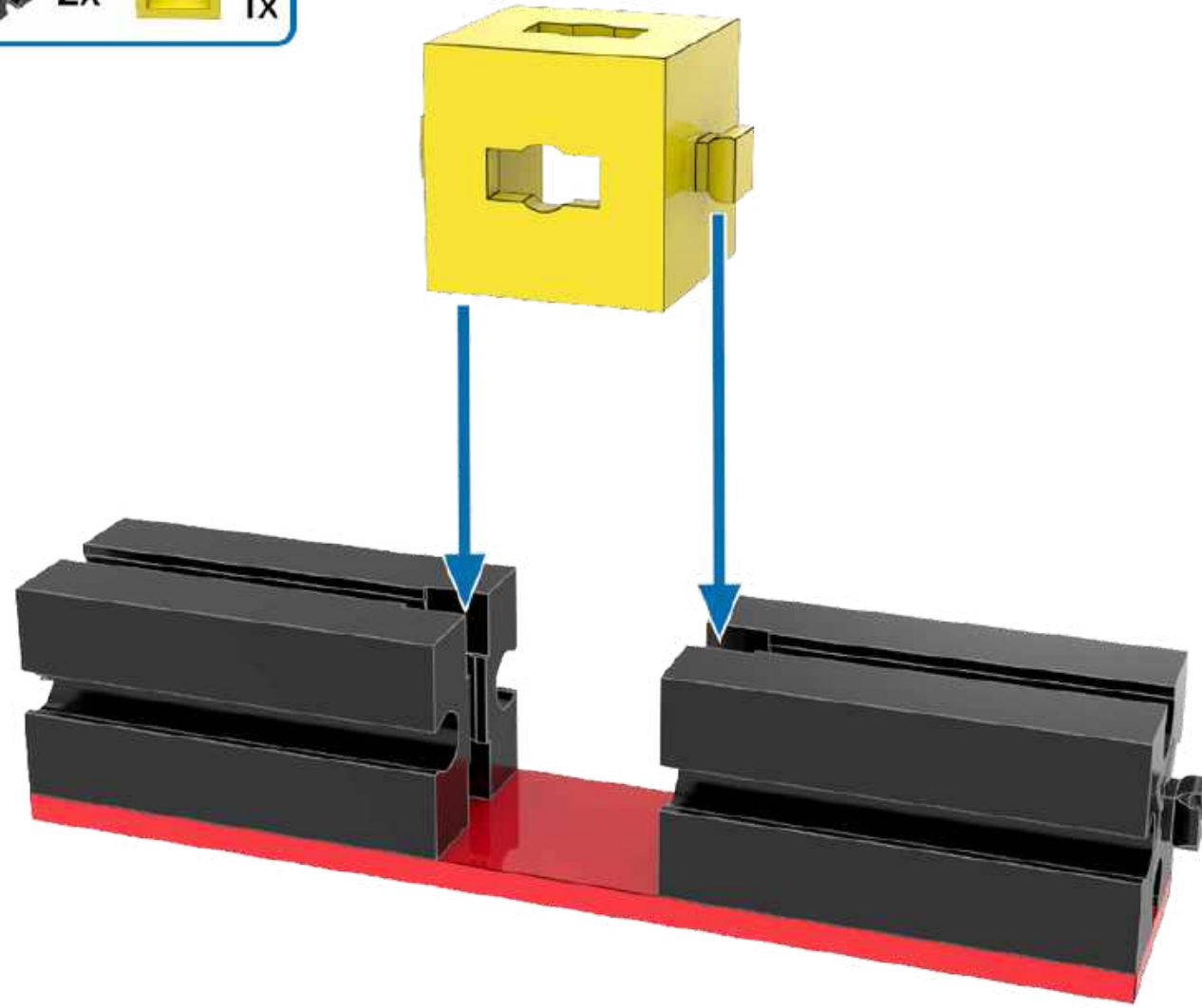
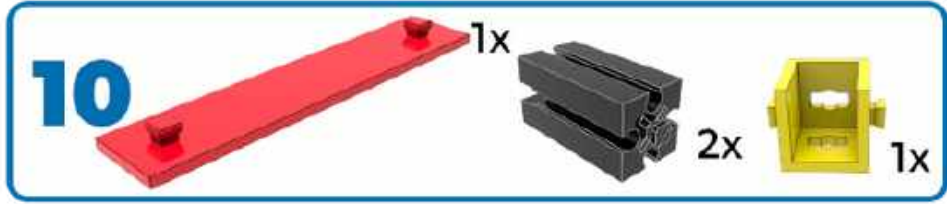




7  2x  2x

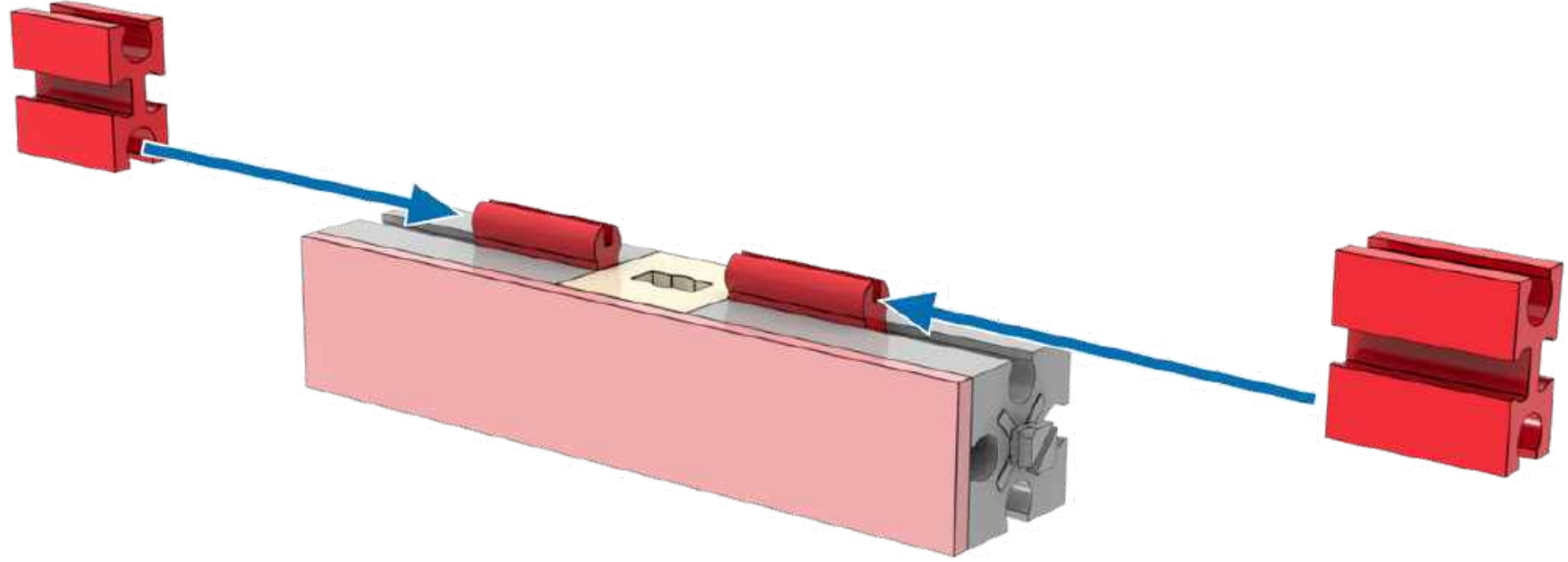




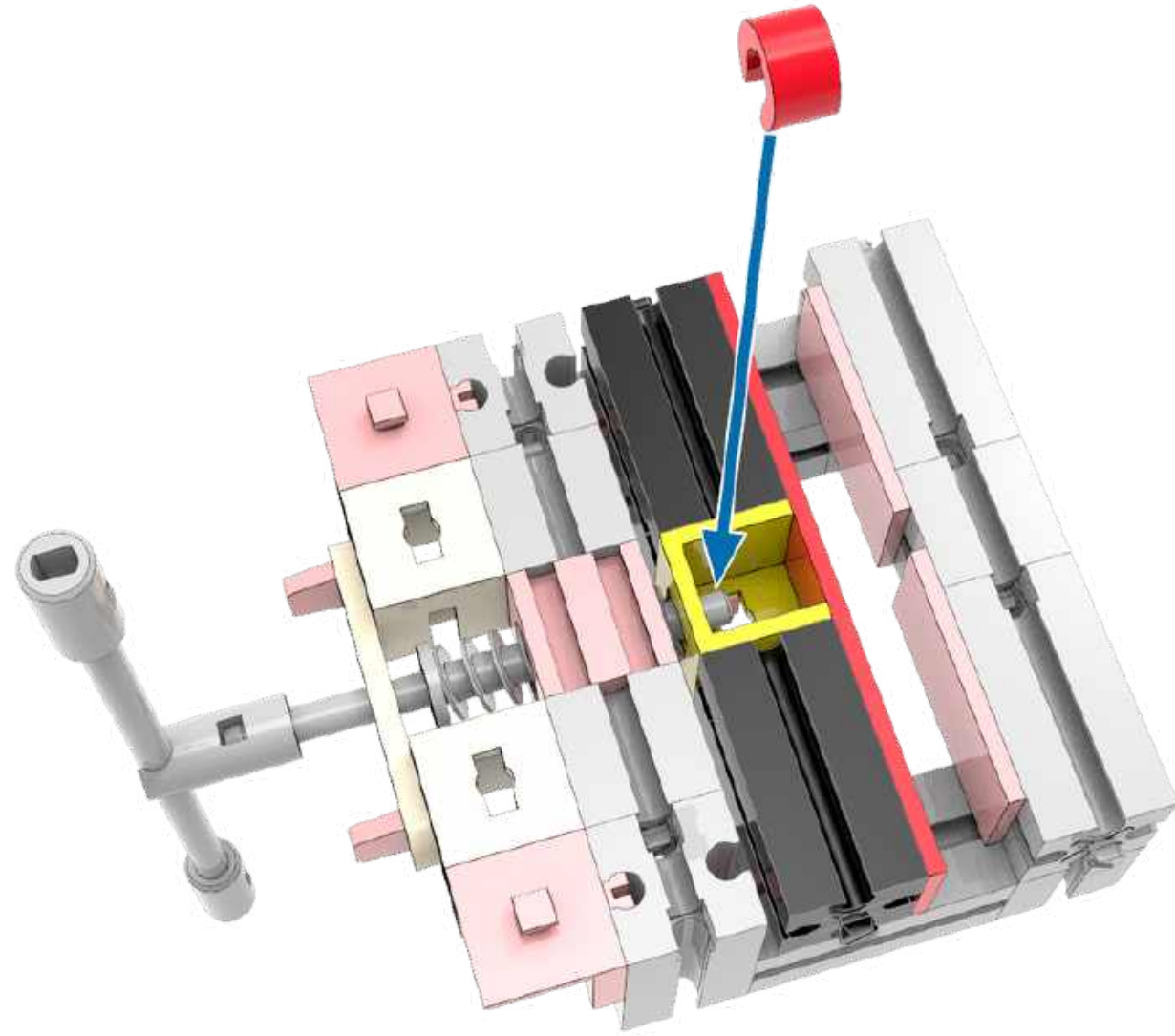






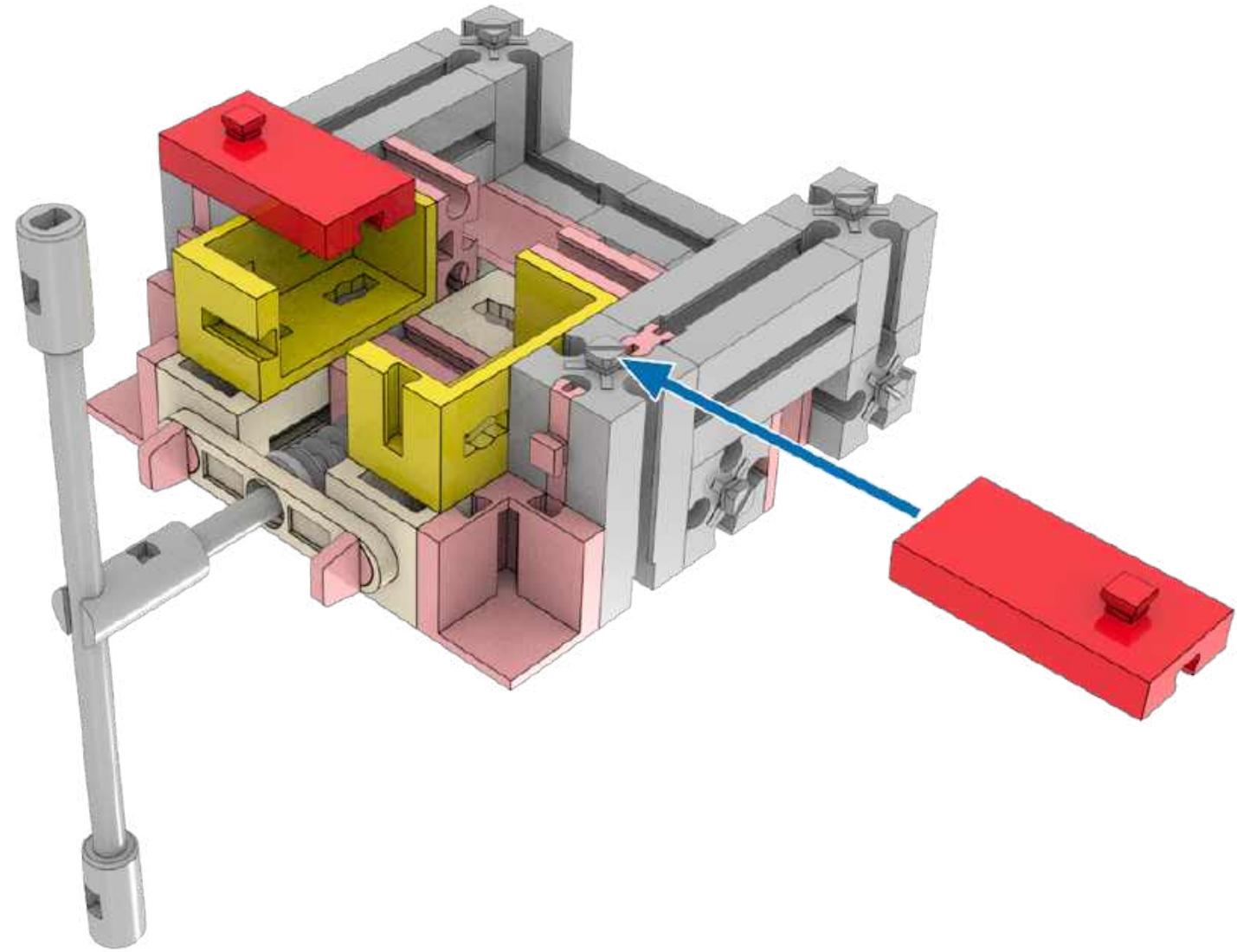
11 ¹⁵ 2x  2x  2x



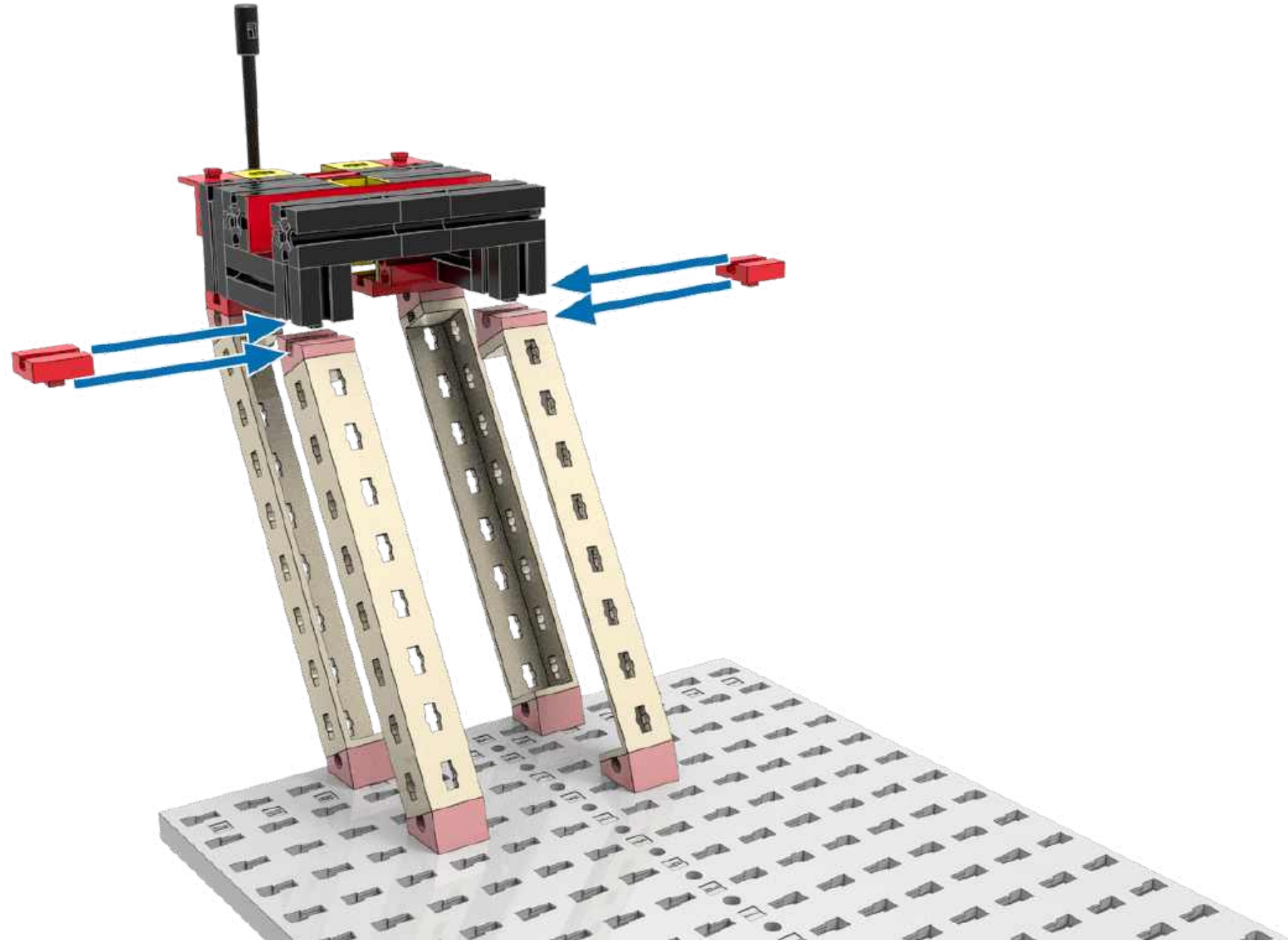
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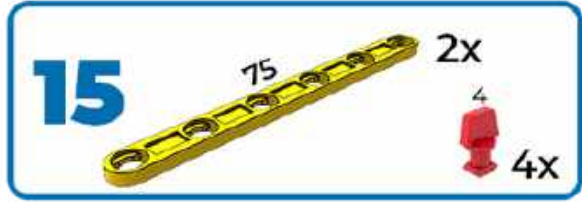
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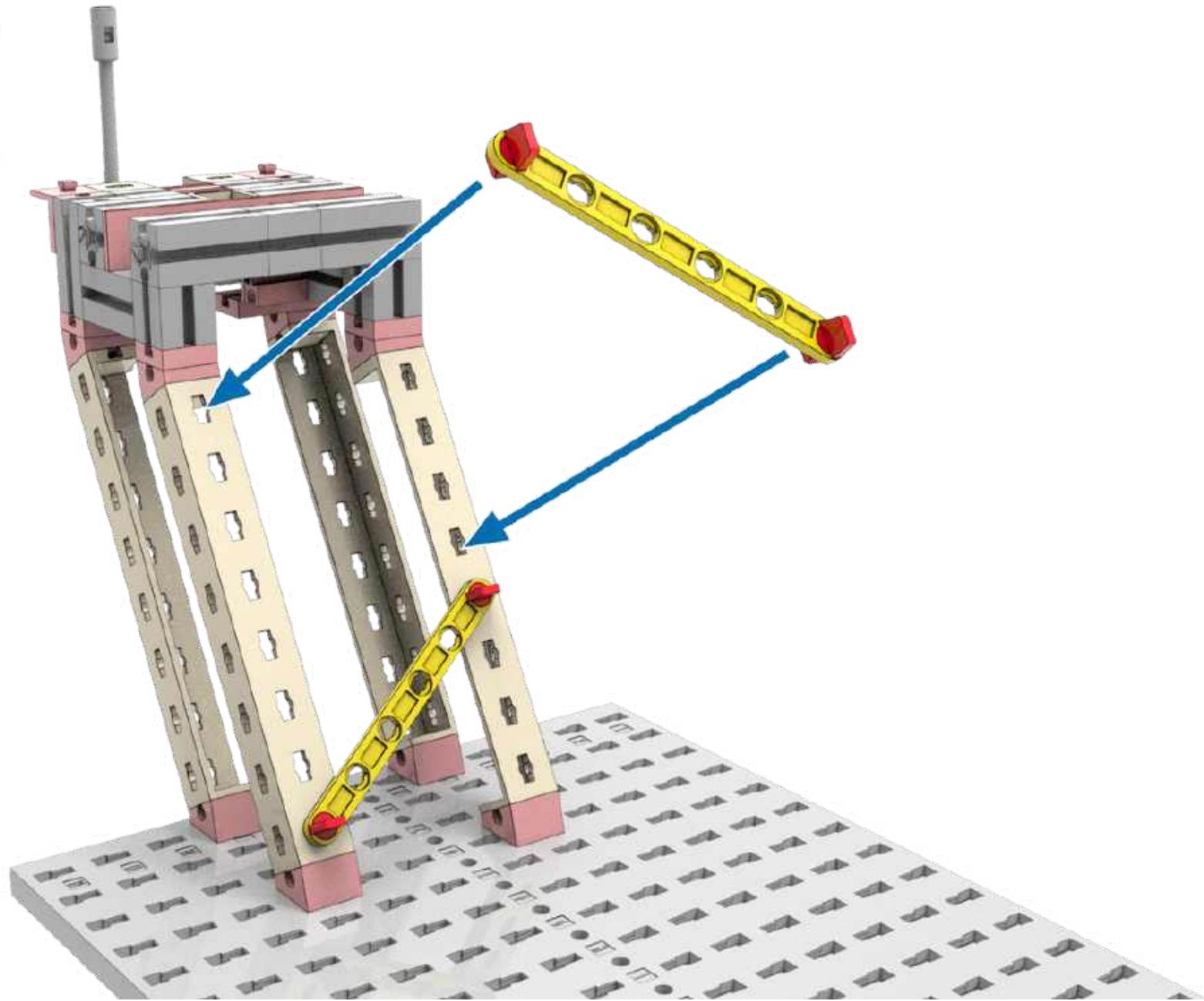
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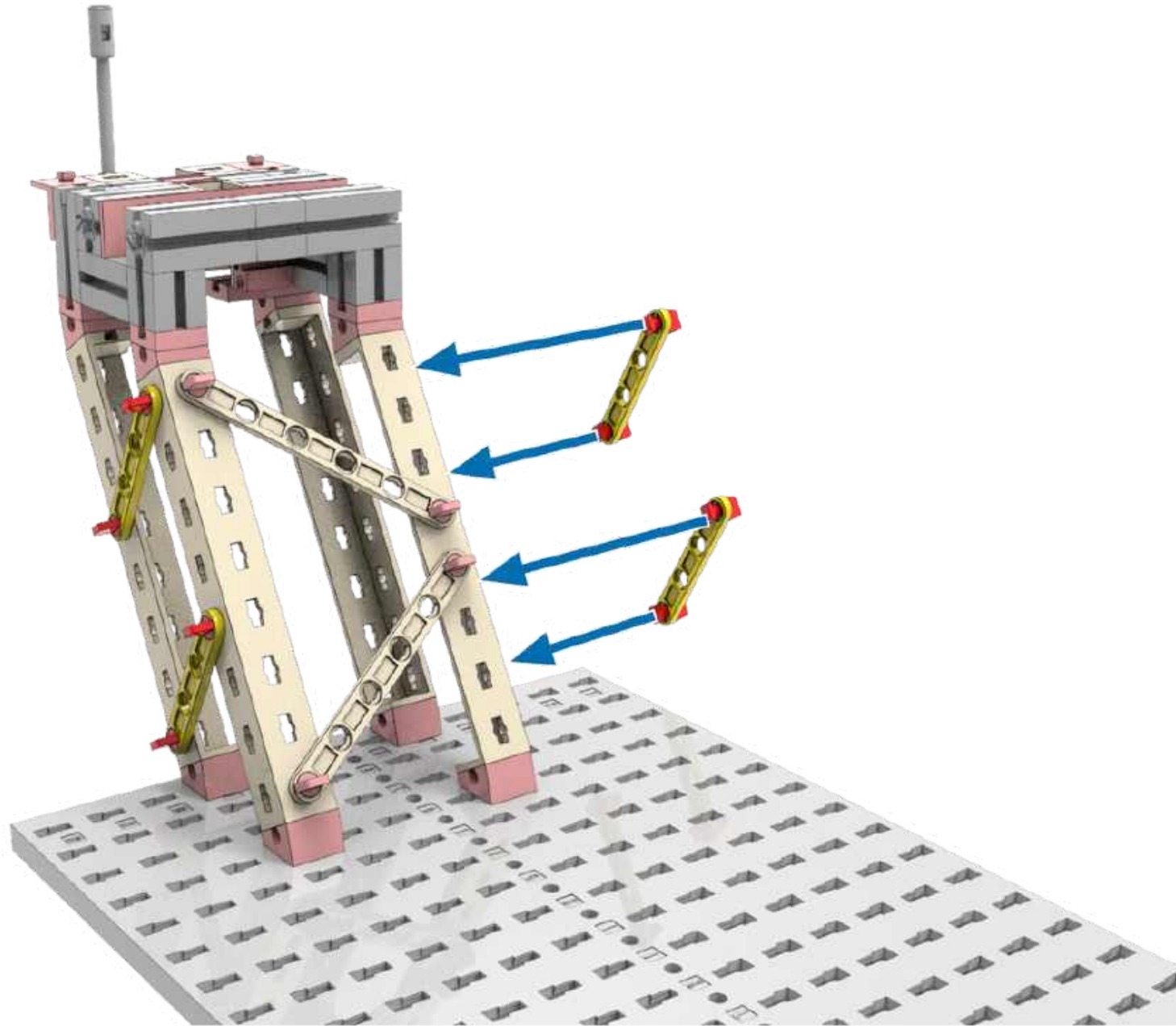
15



75 2x
4 4x



16 45 4x 4
8x



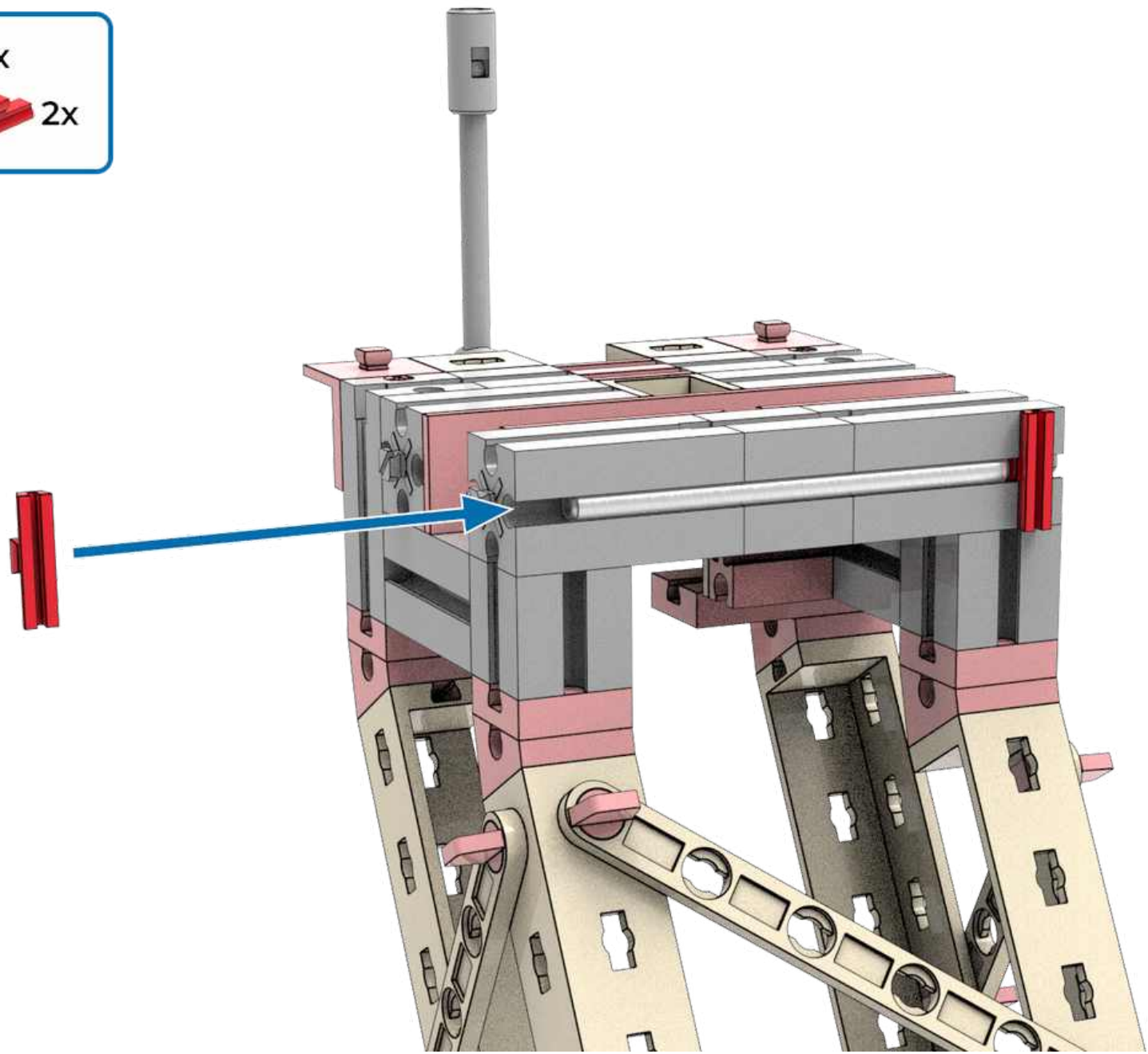
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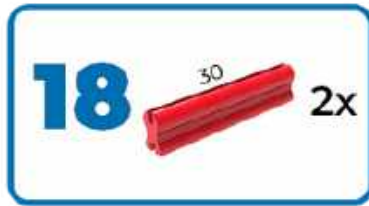
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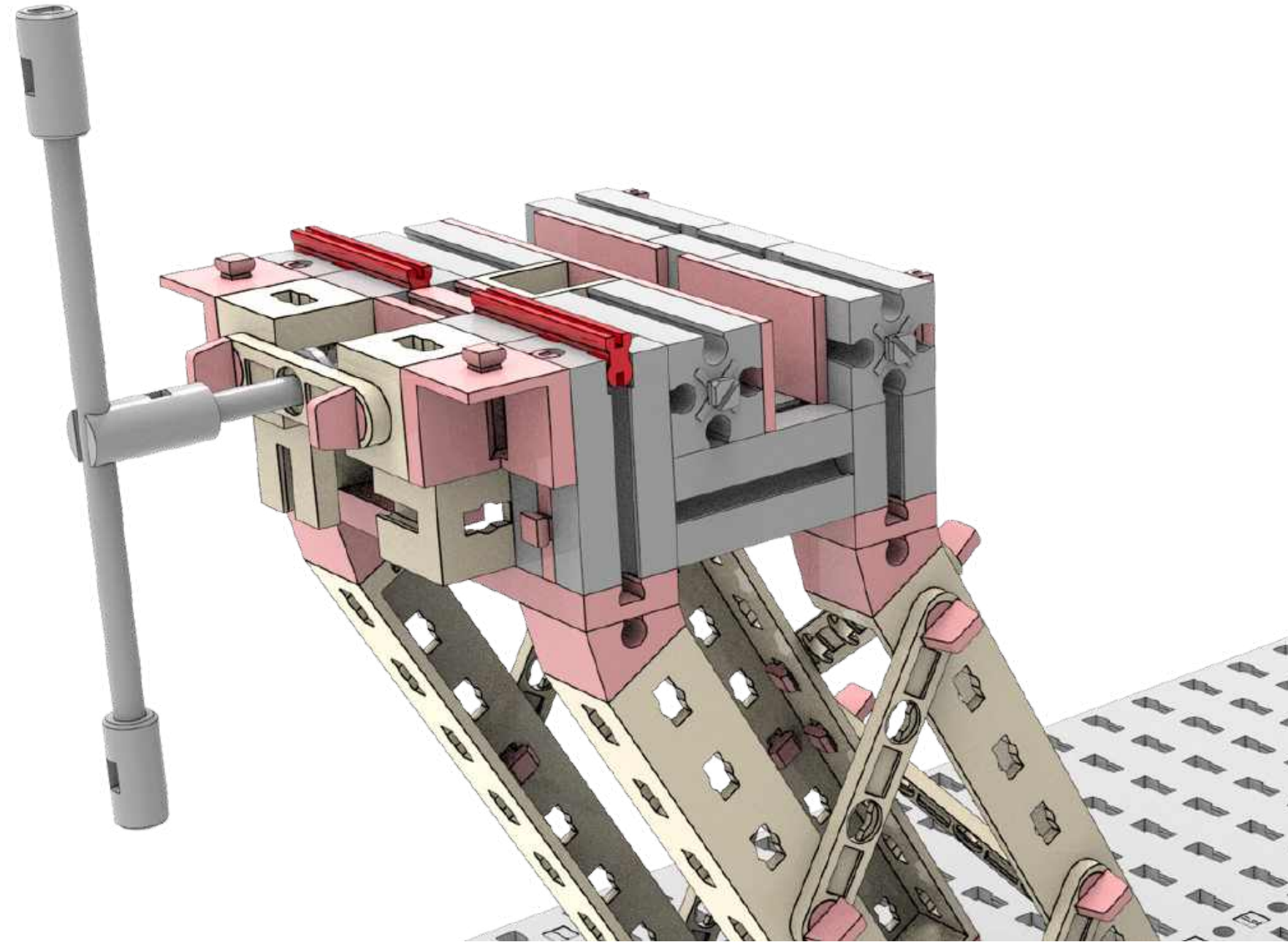
2x



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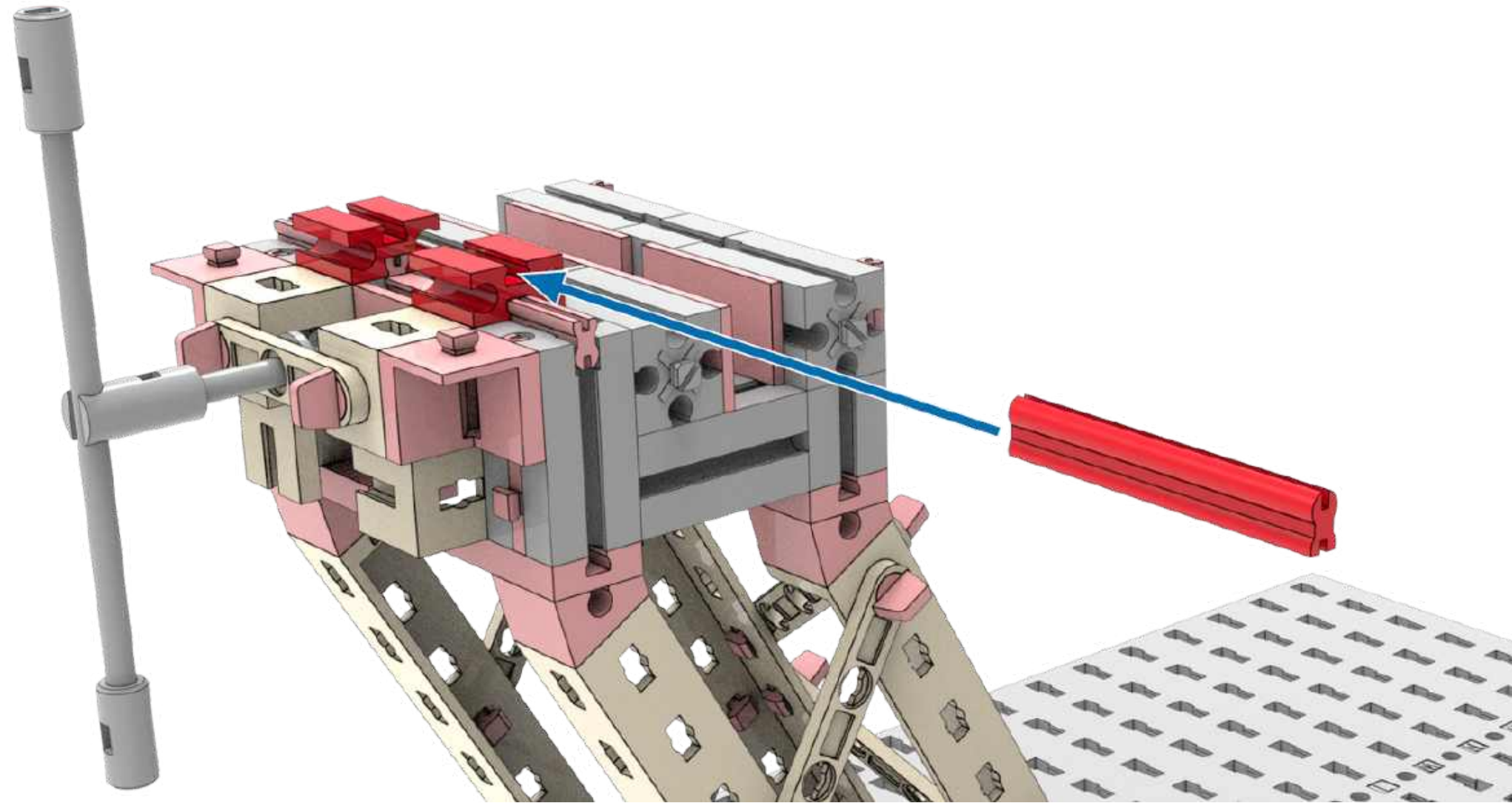


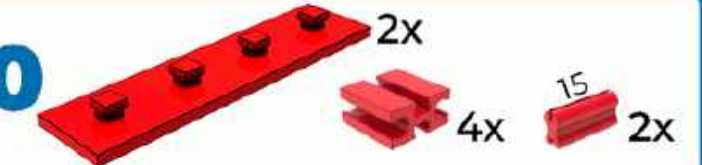
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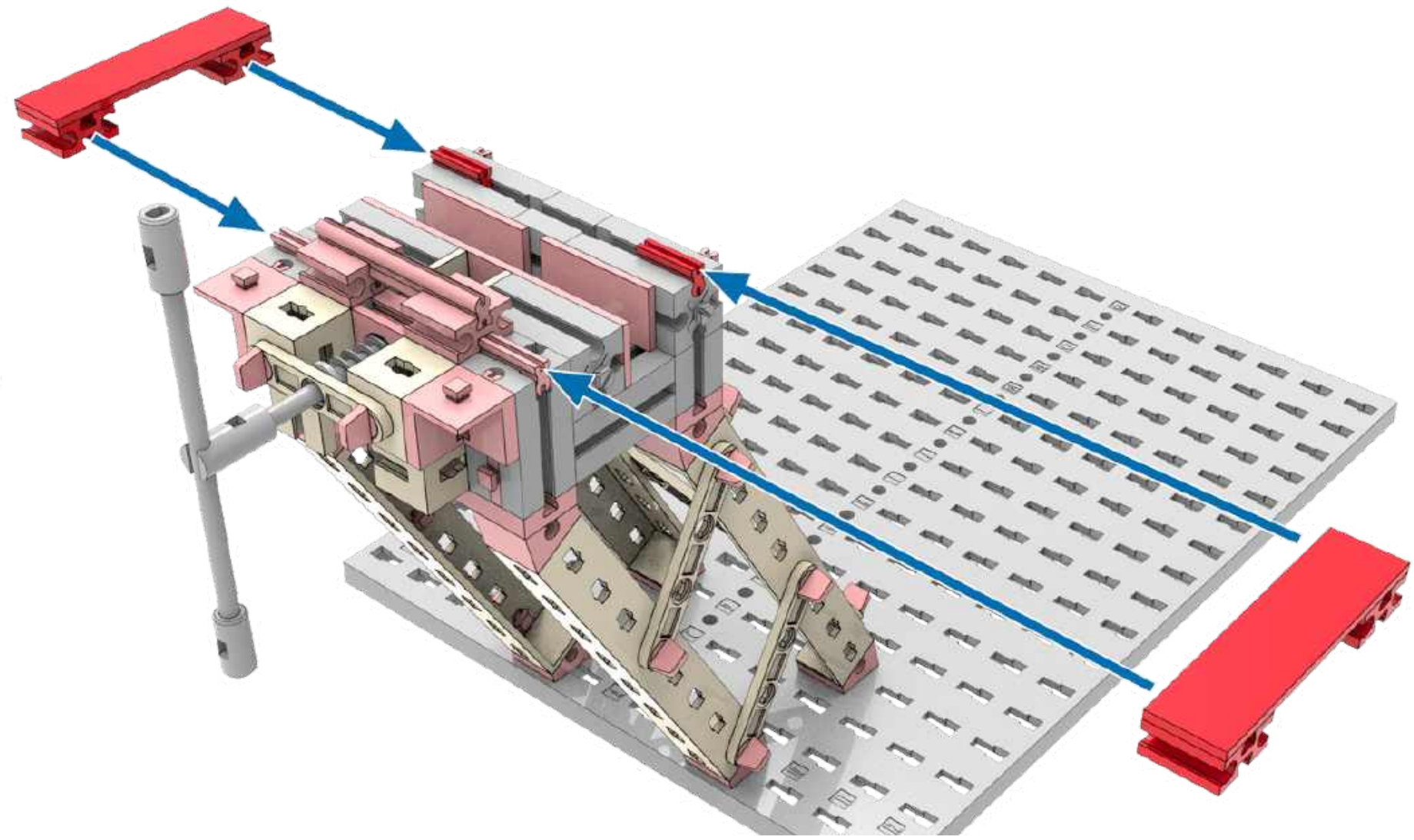
19  1x  2x

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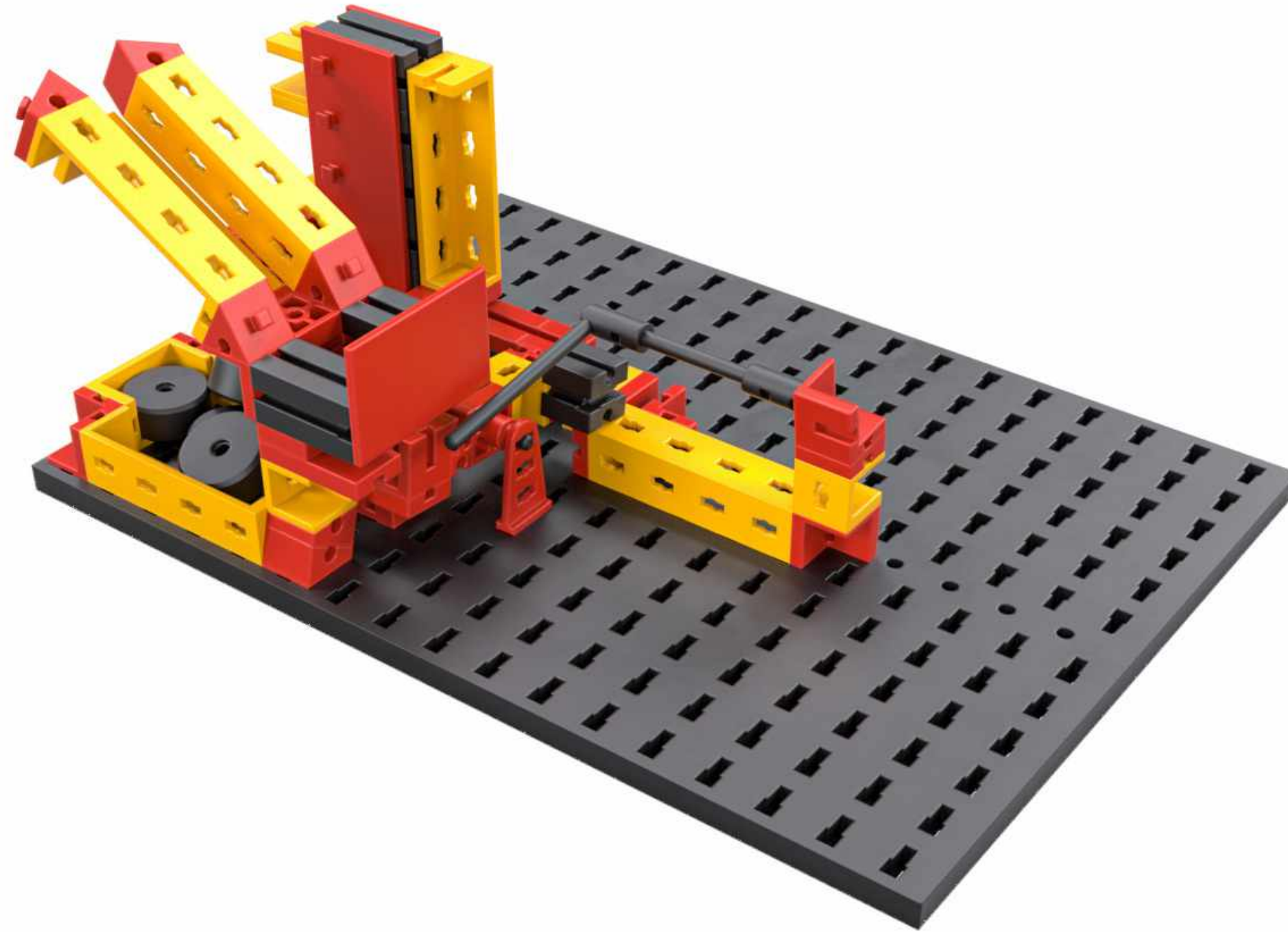


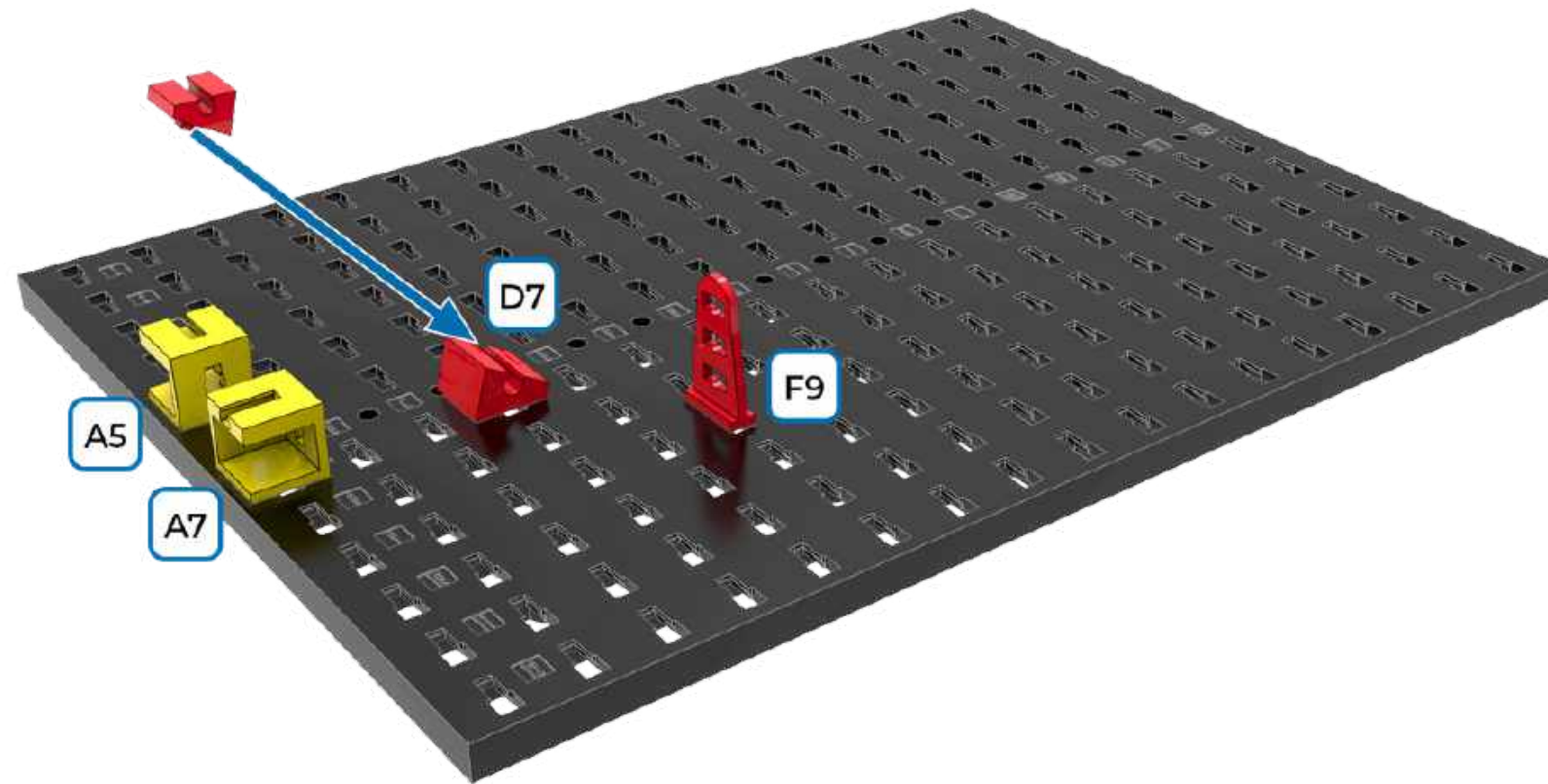
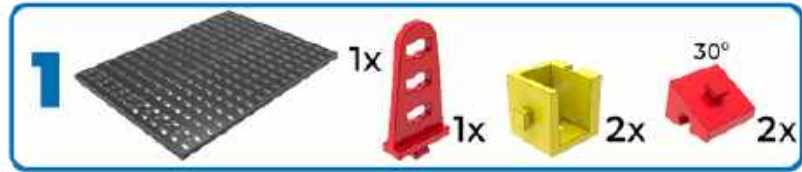
20  2x
4x
15
2x

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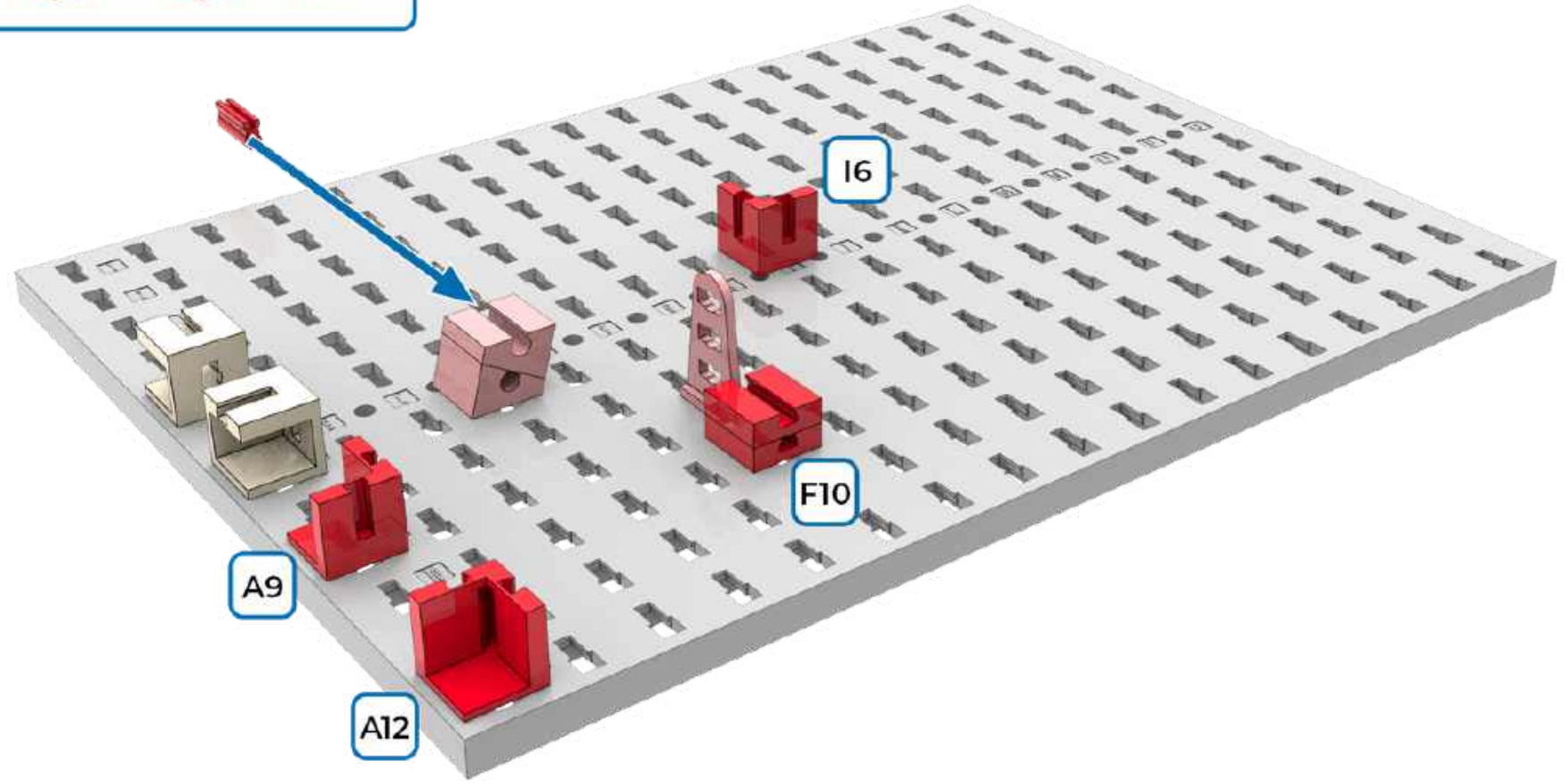


Warenautomat

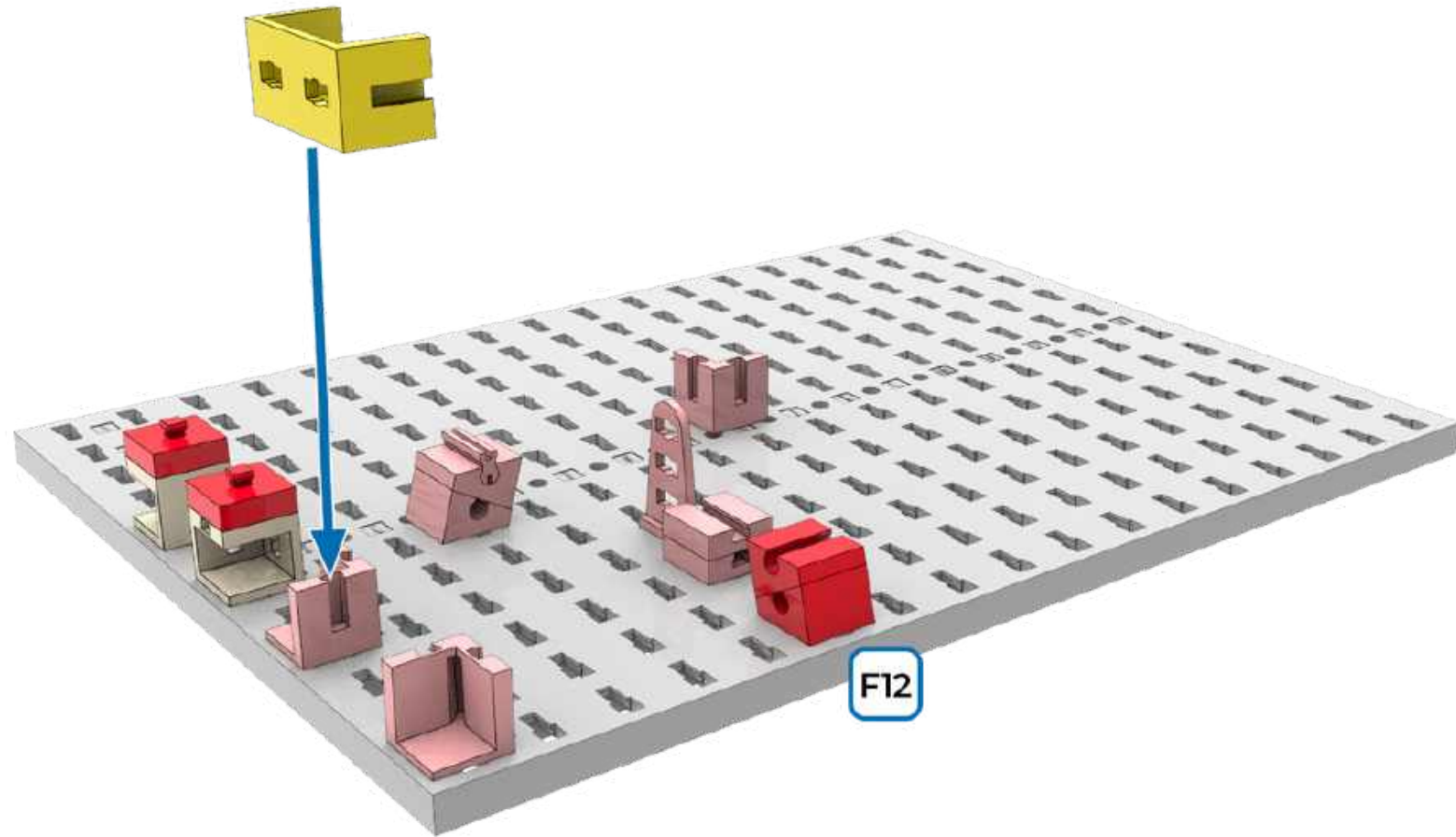


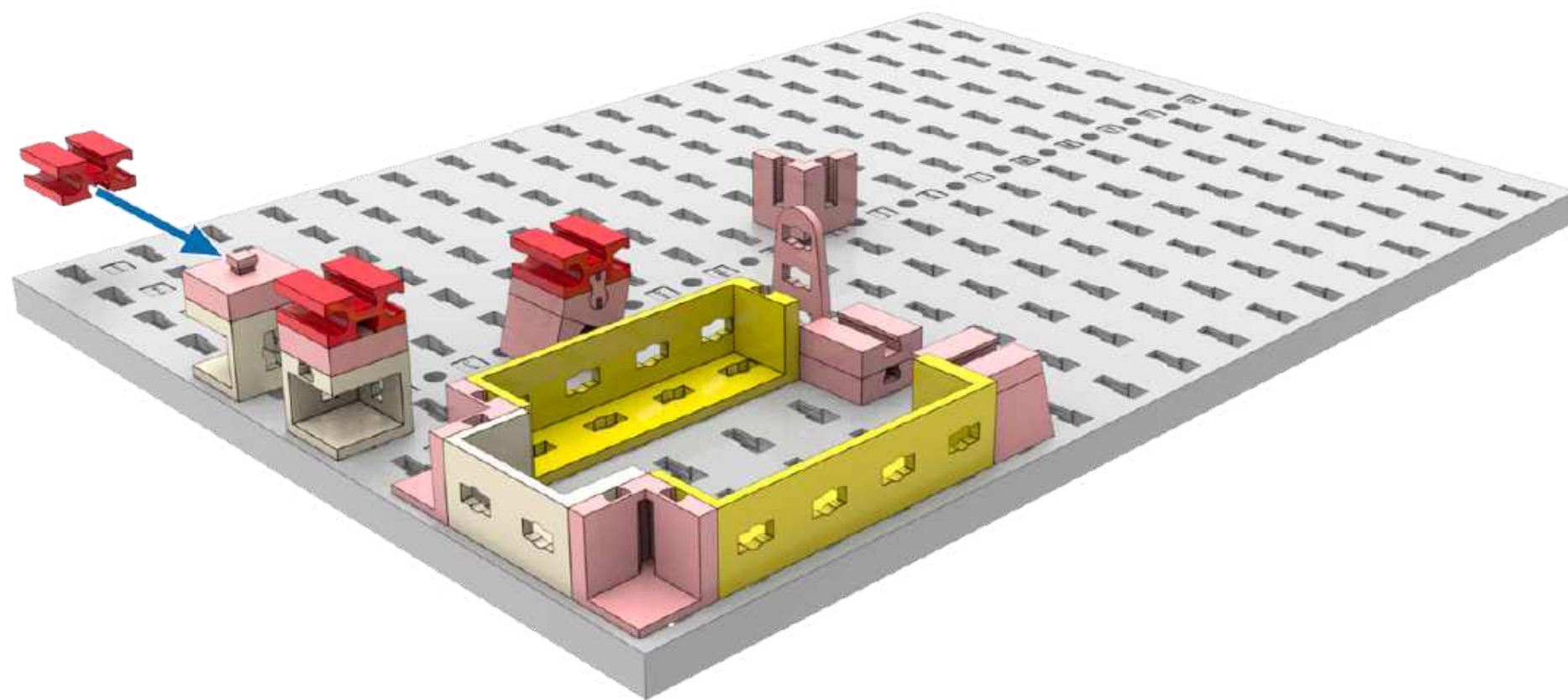


2  3x  2x  1x

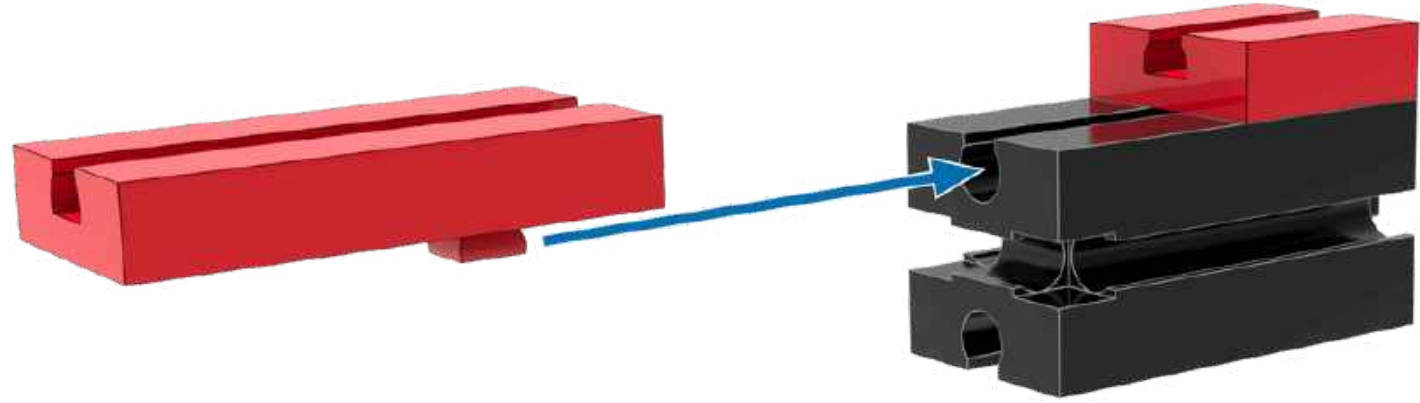


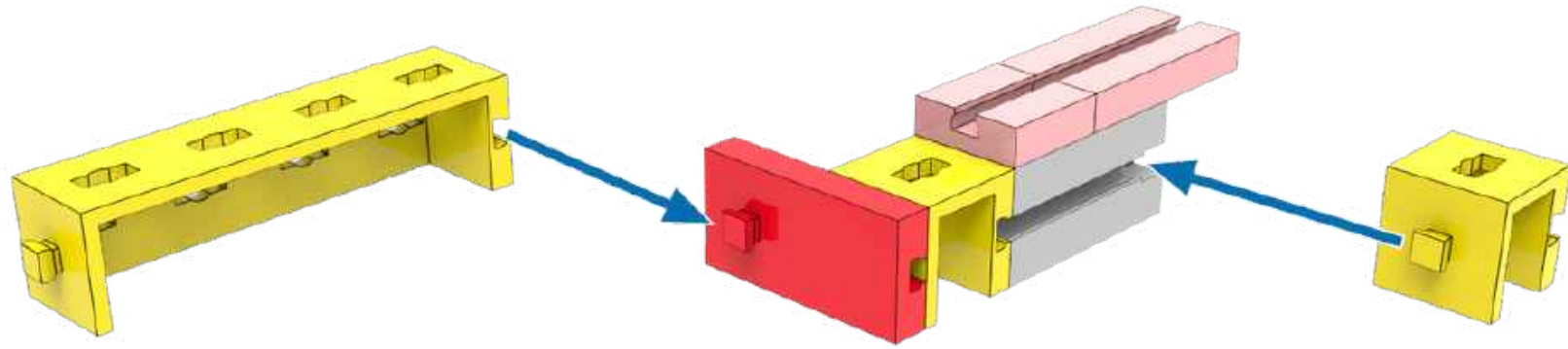
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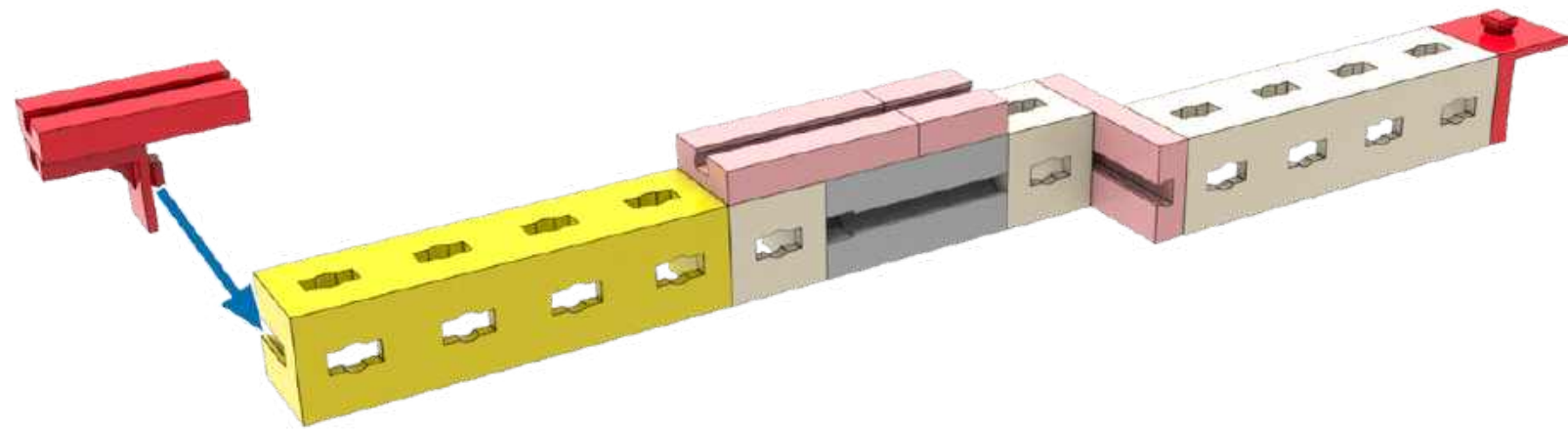
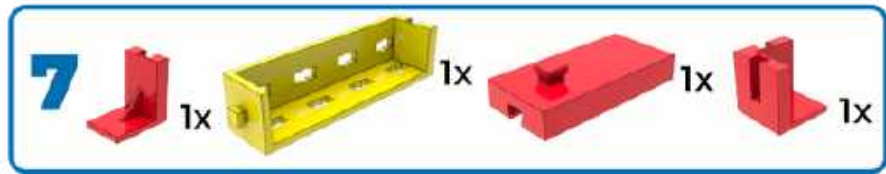





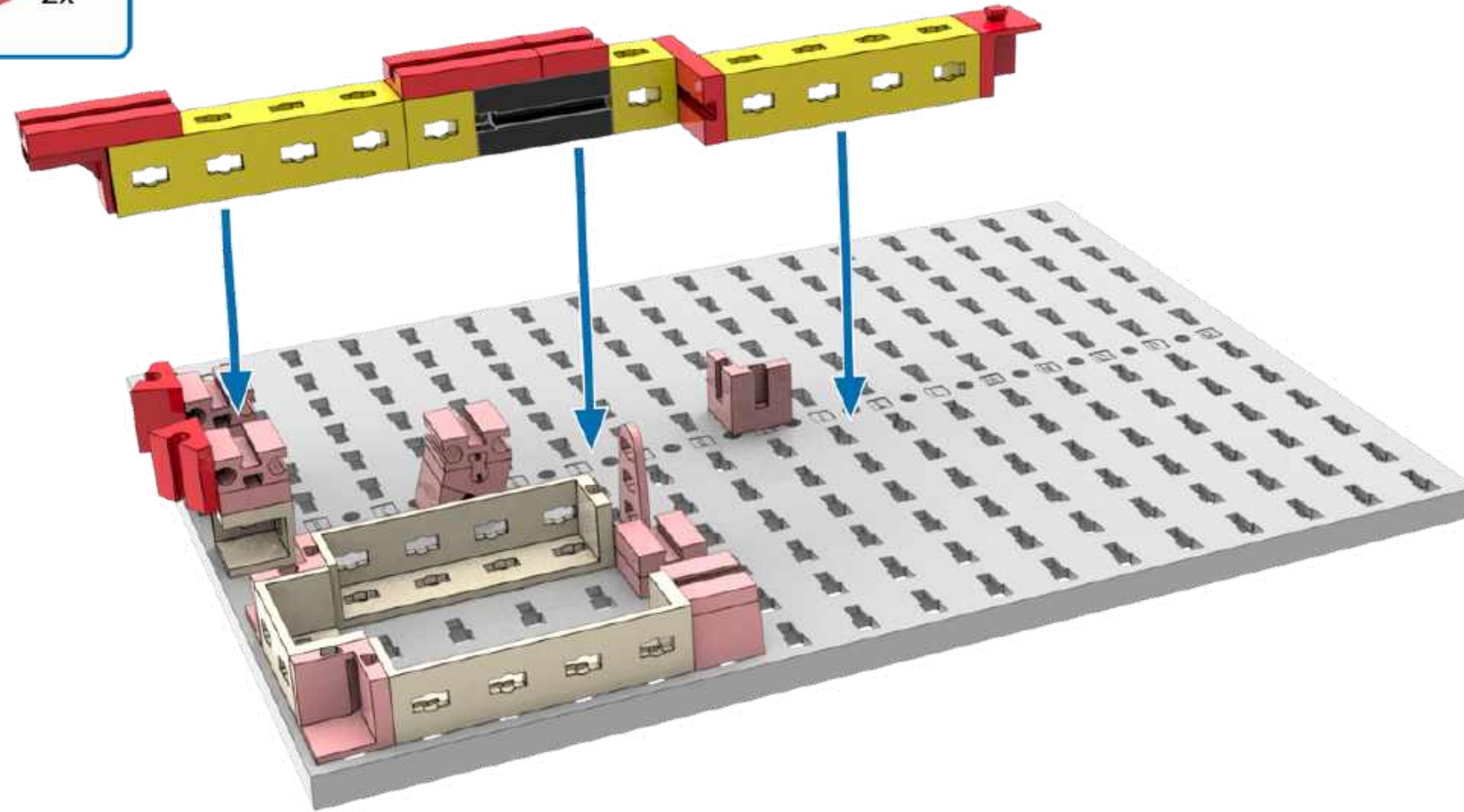
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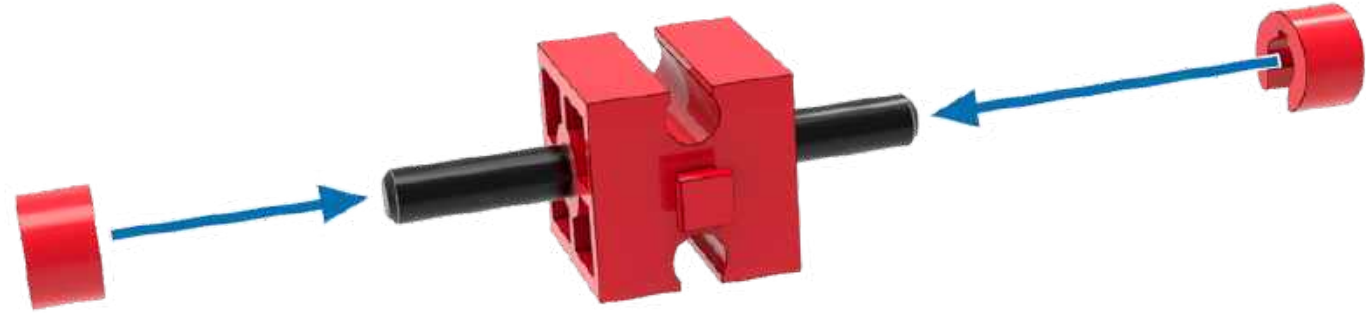
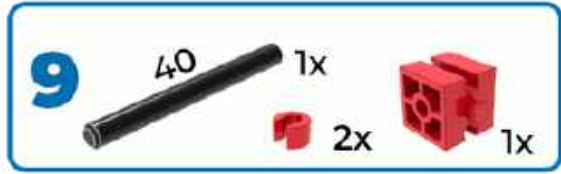







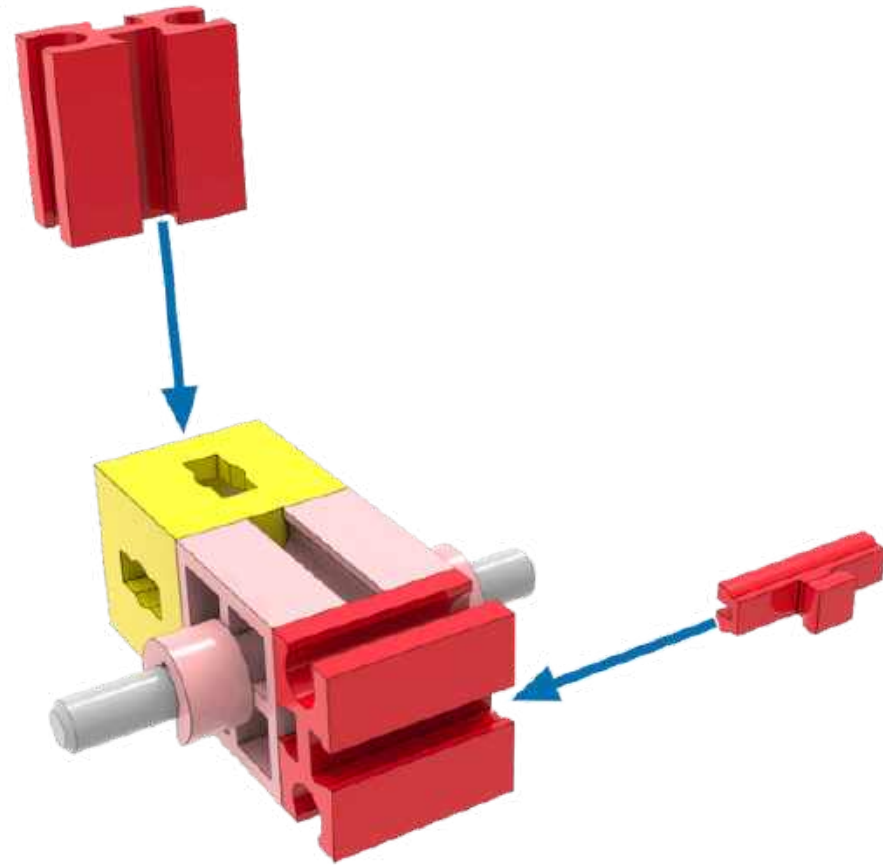


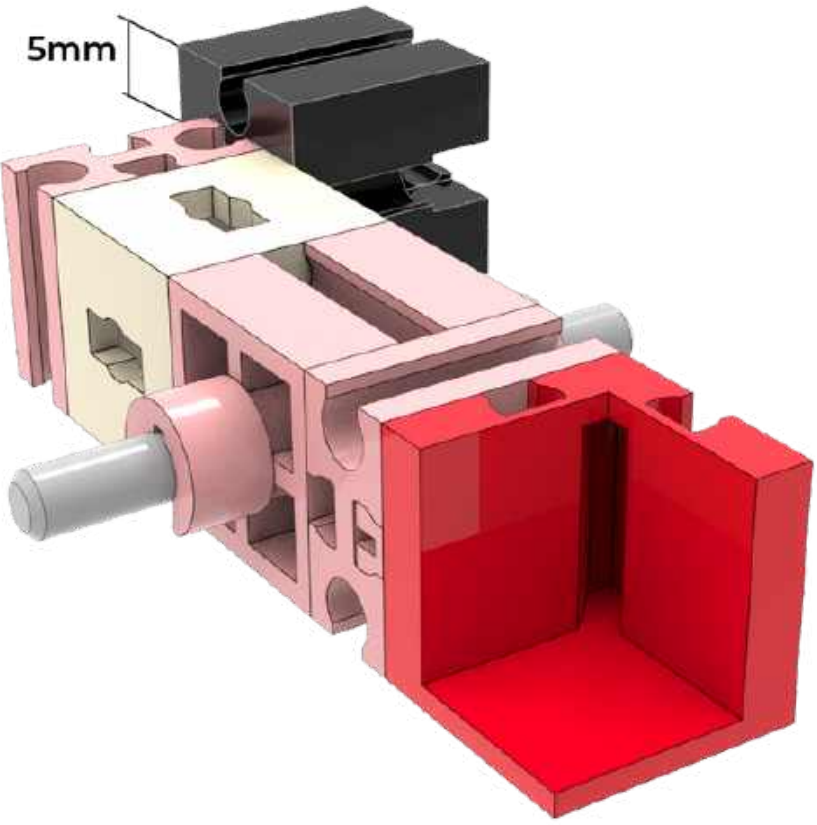
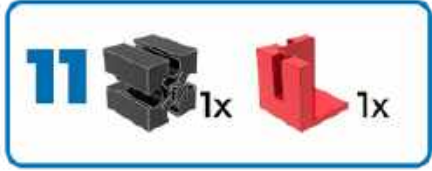
8  2x






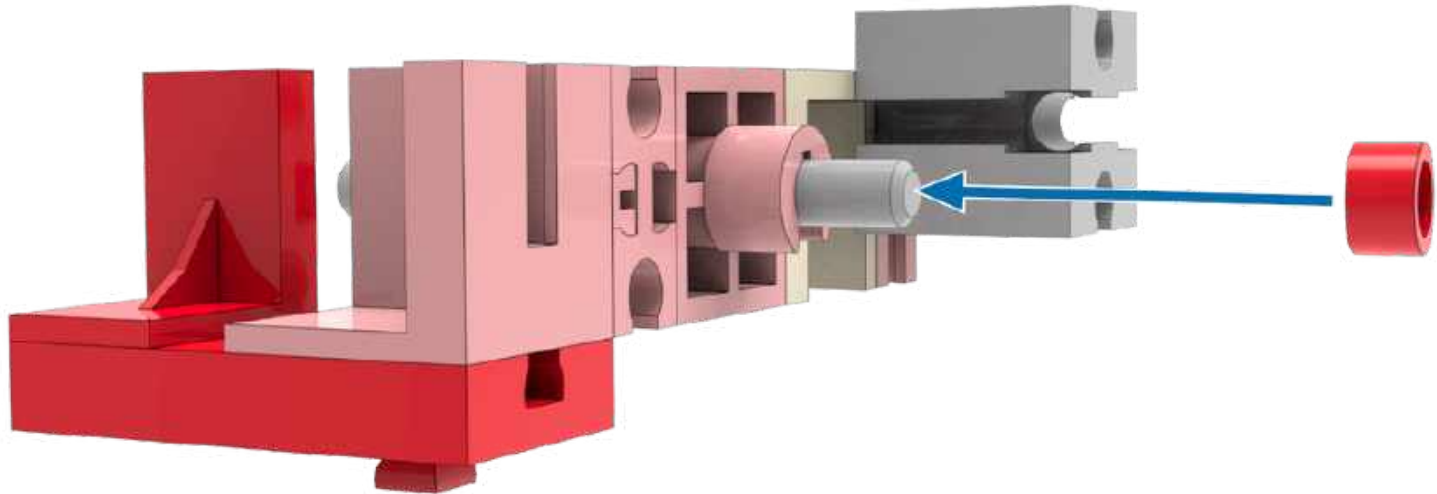


10  2x  1x  1x

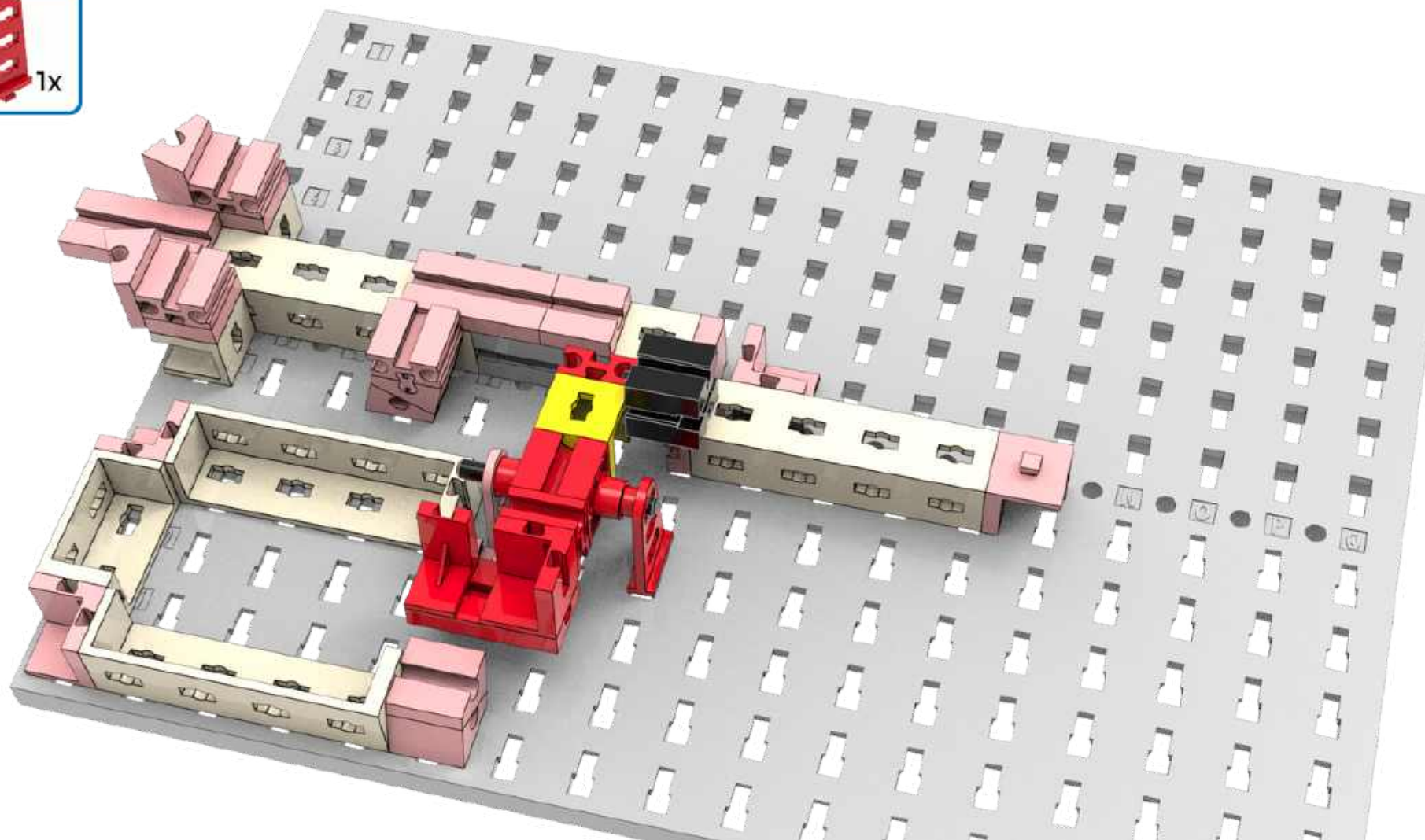


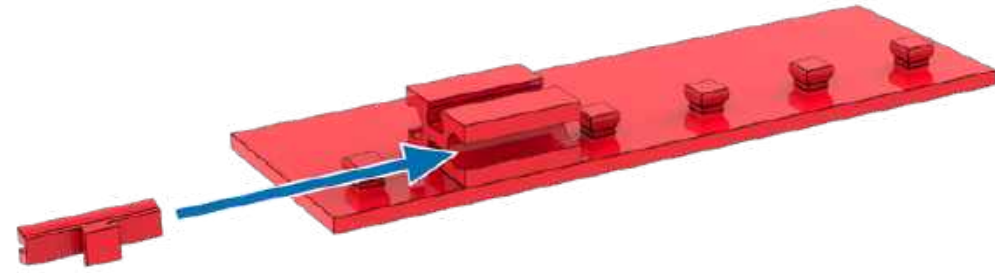
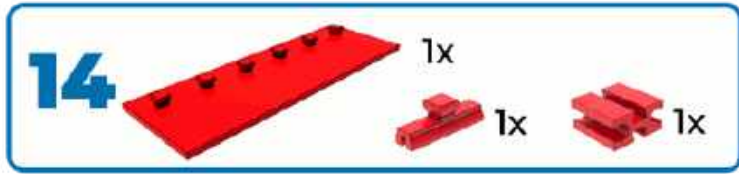




12  1x  1x  1x

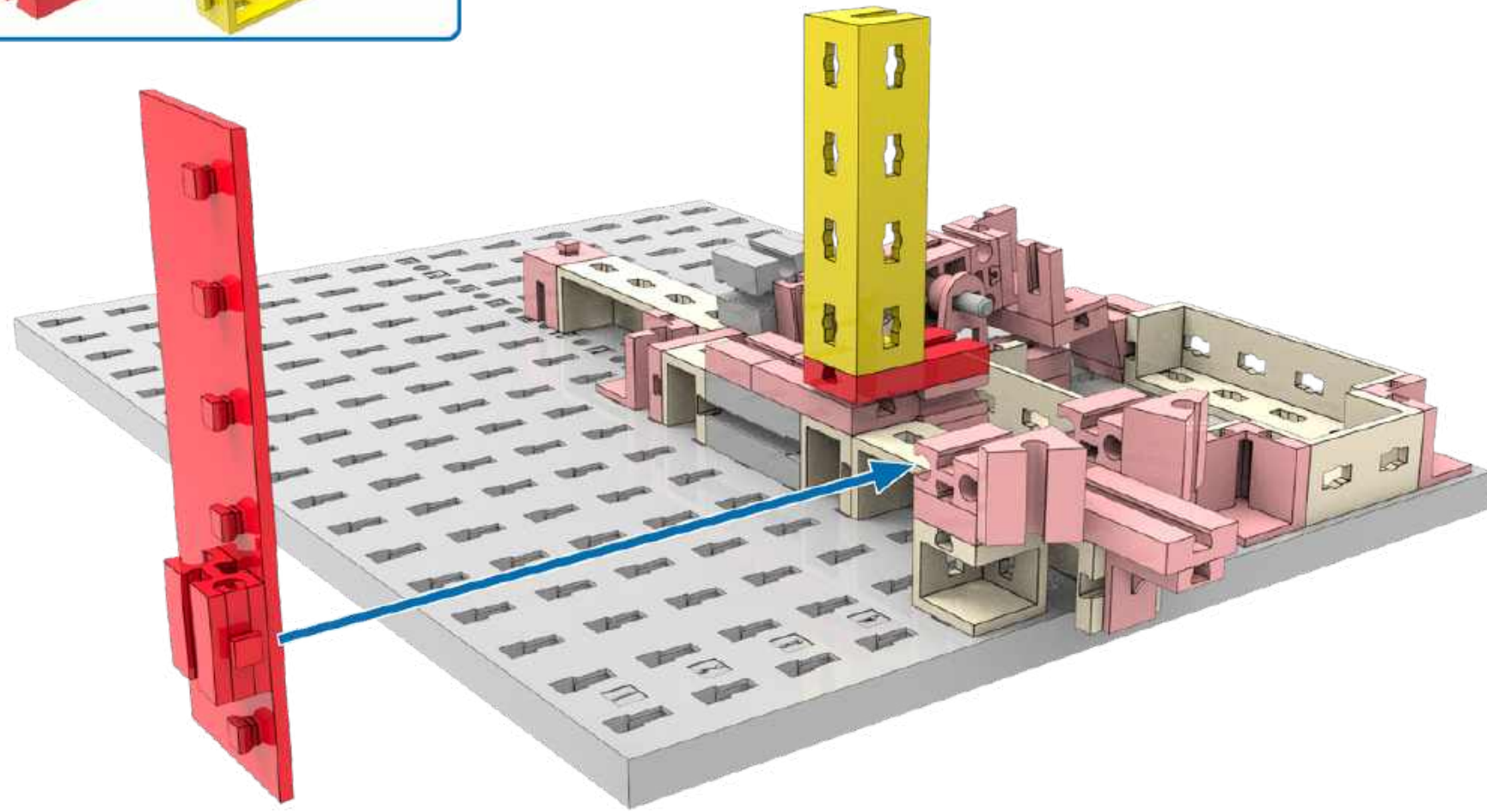


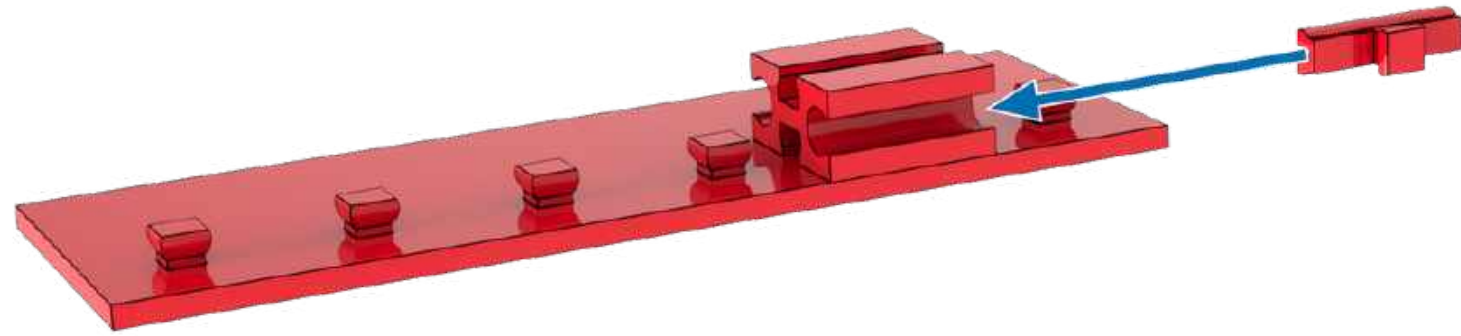
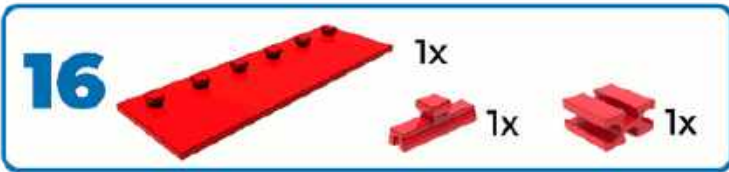
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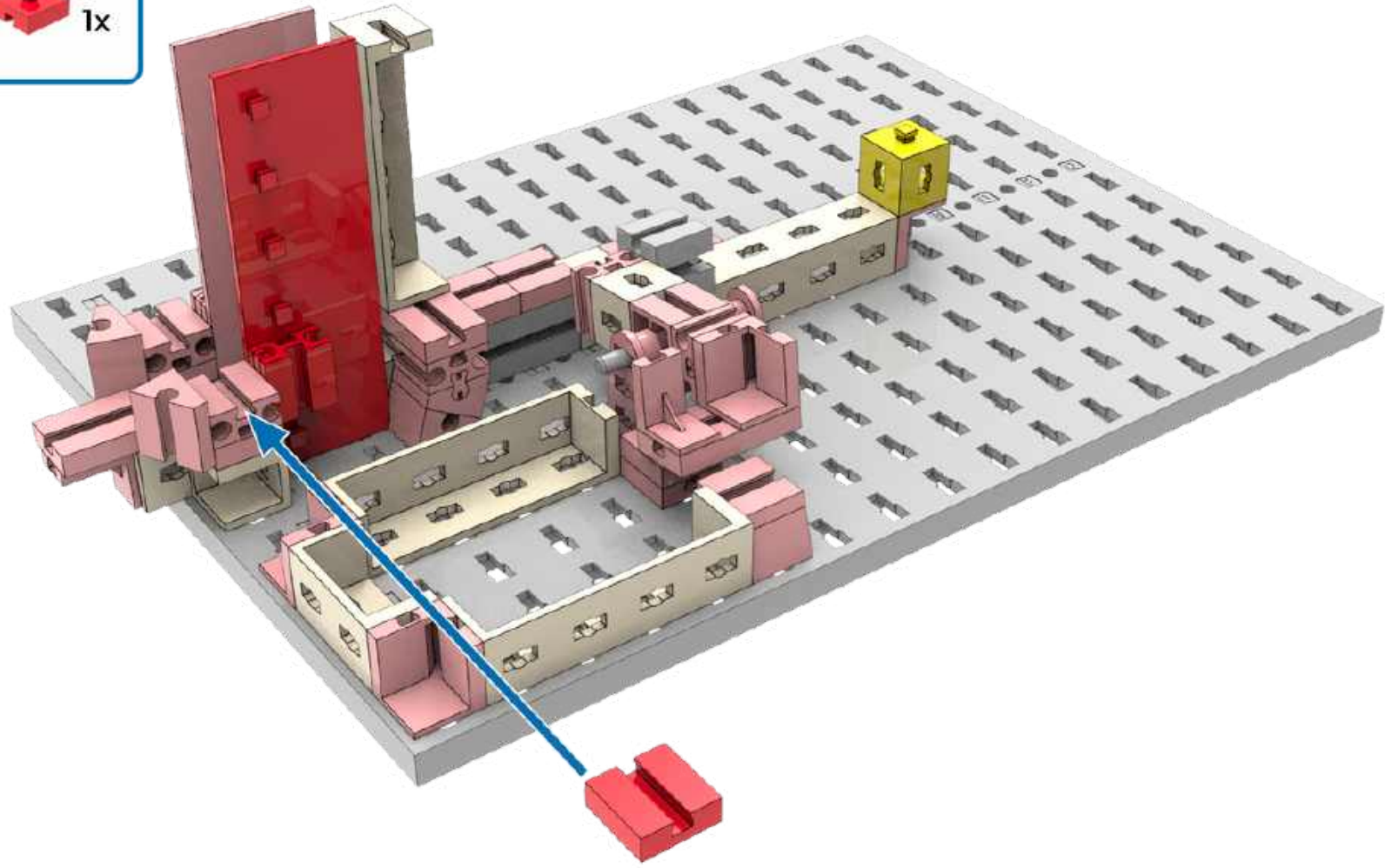





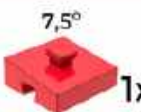

15  1x  1x

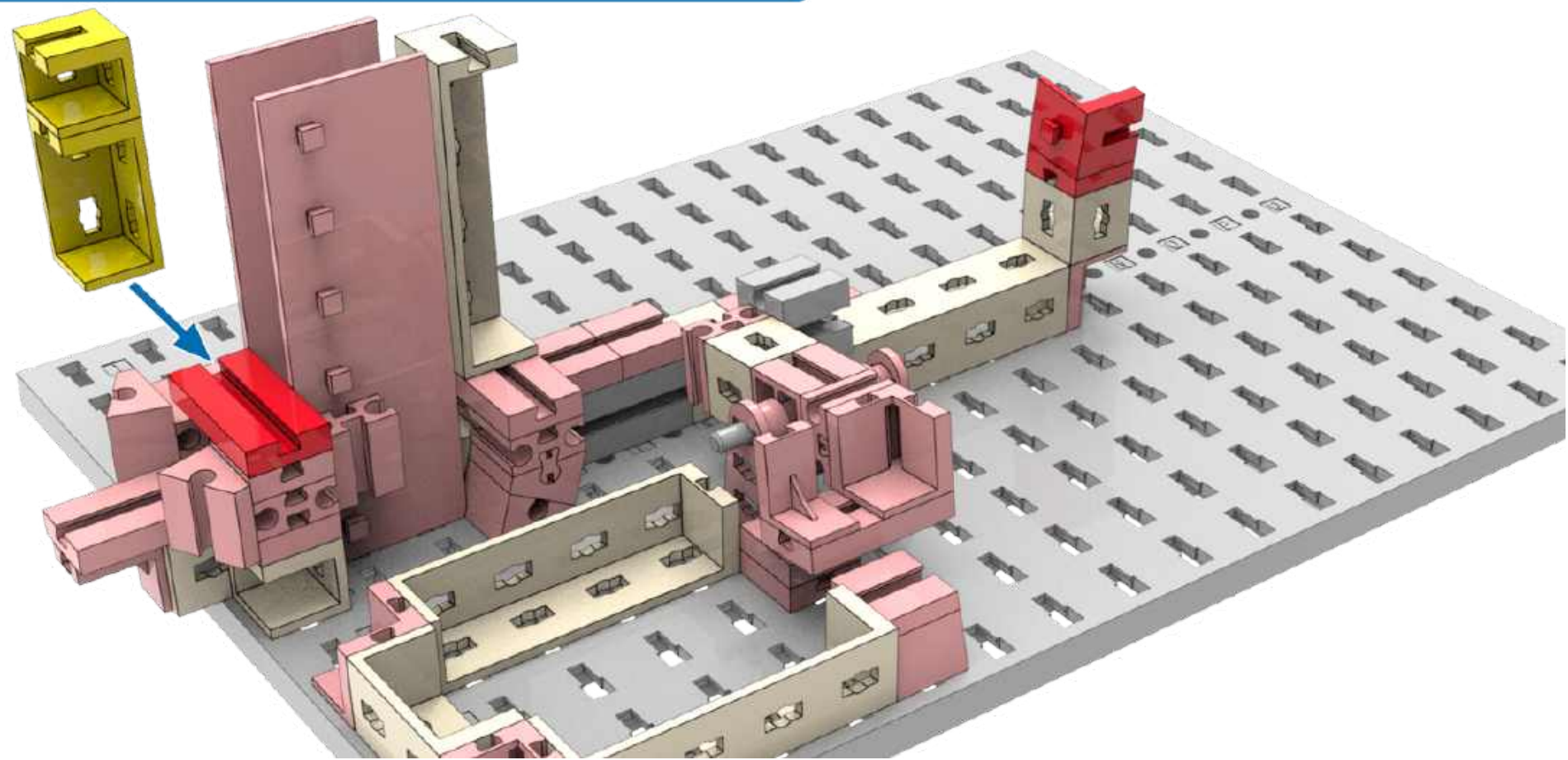







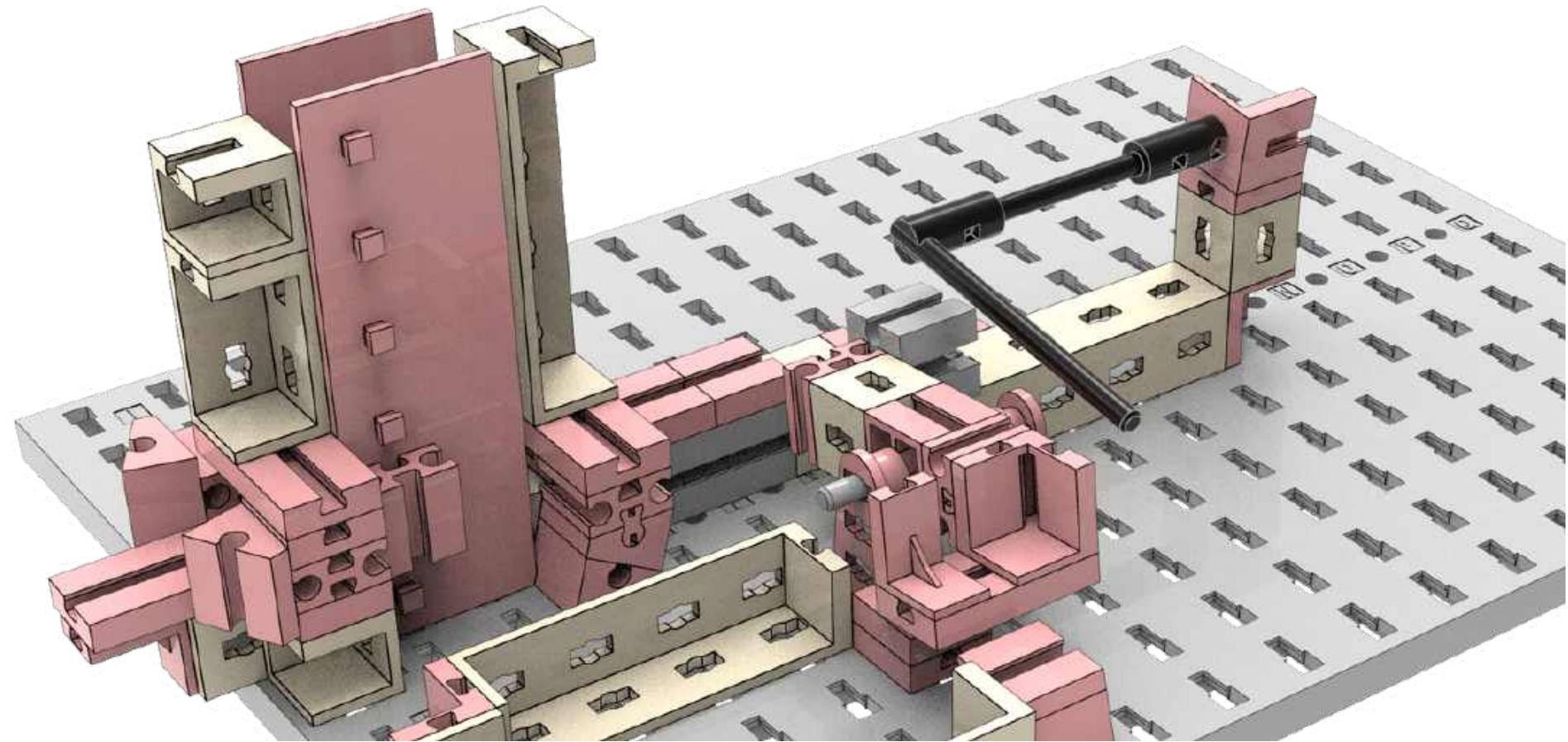
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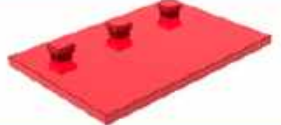


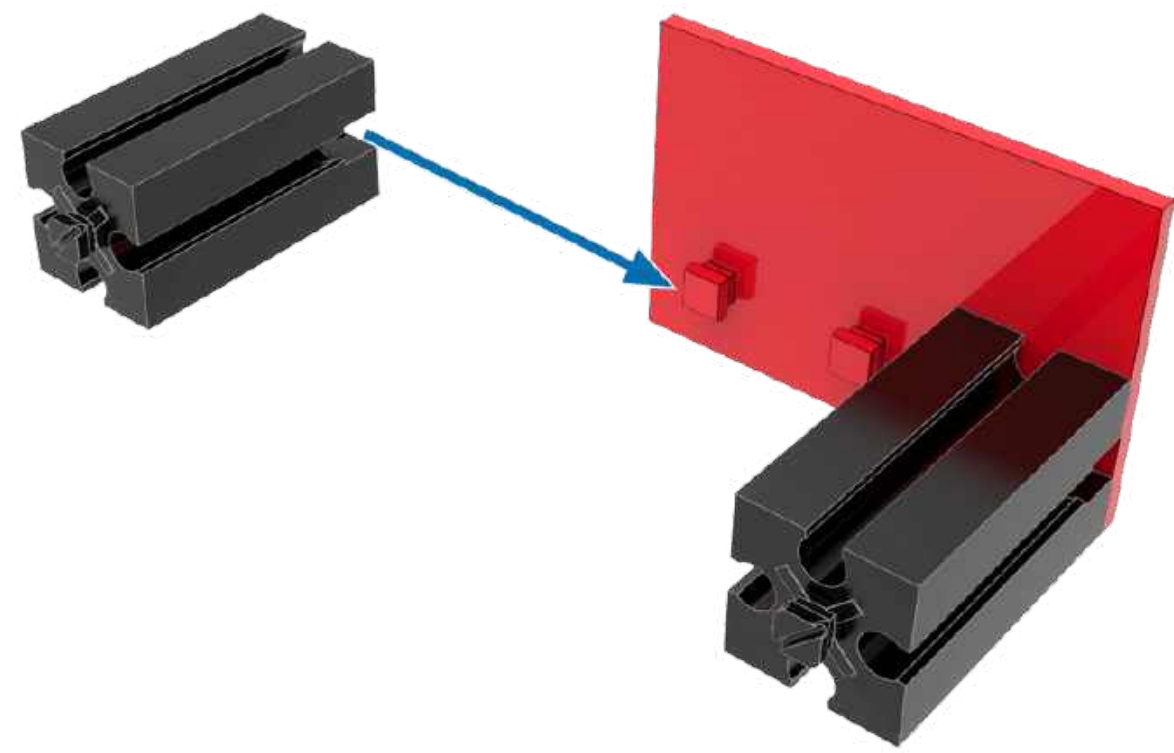
18  1x  1x  1x  1x  1x





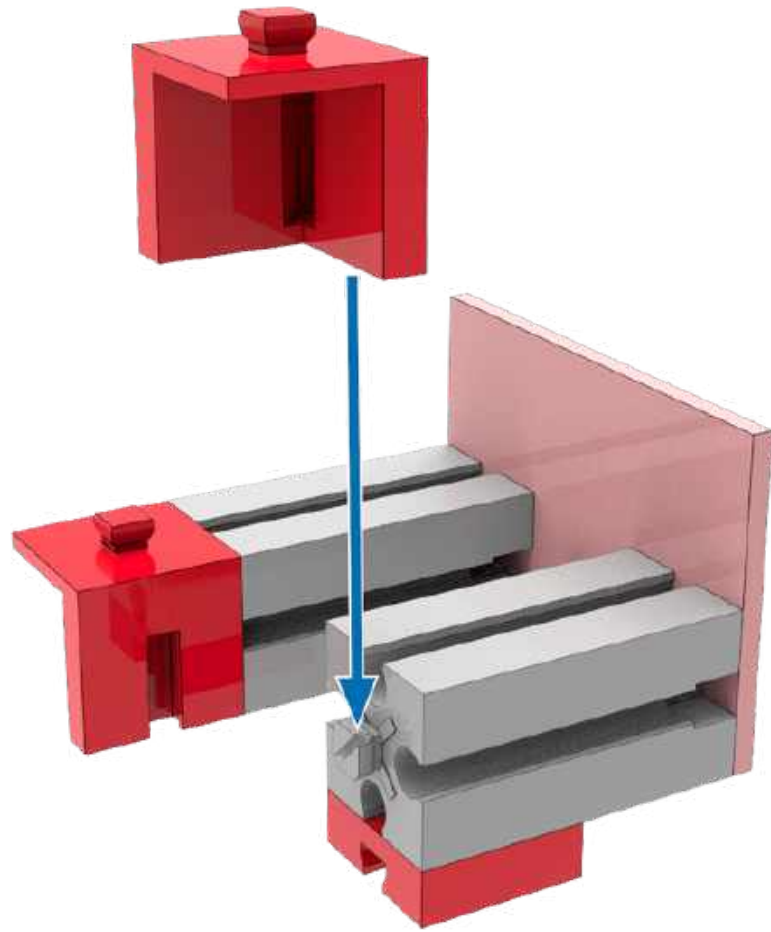
19  2x  1x  1x







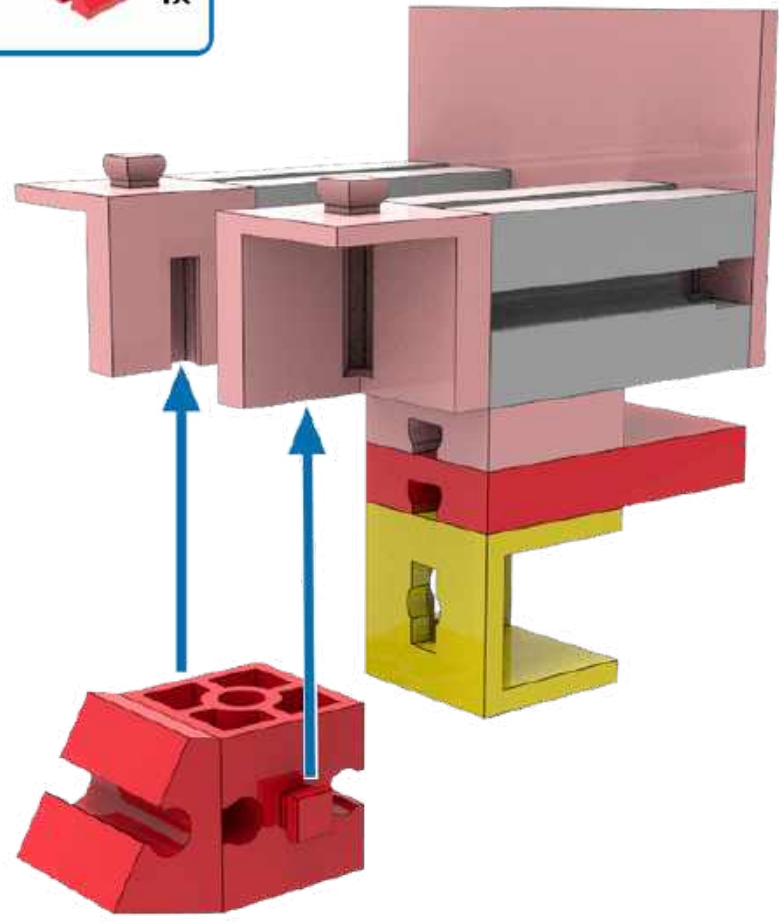
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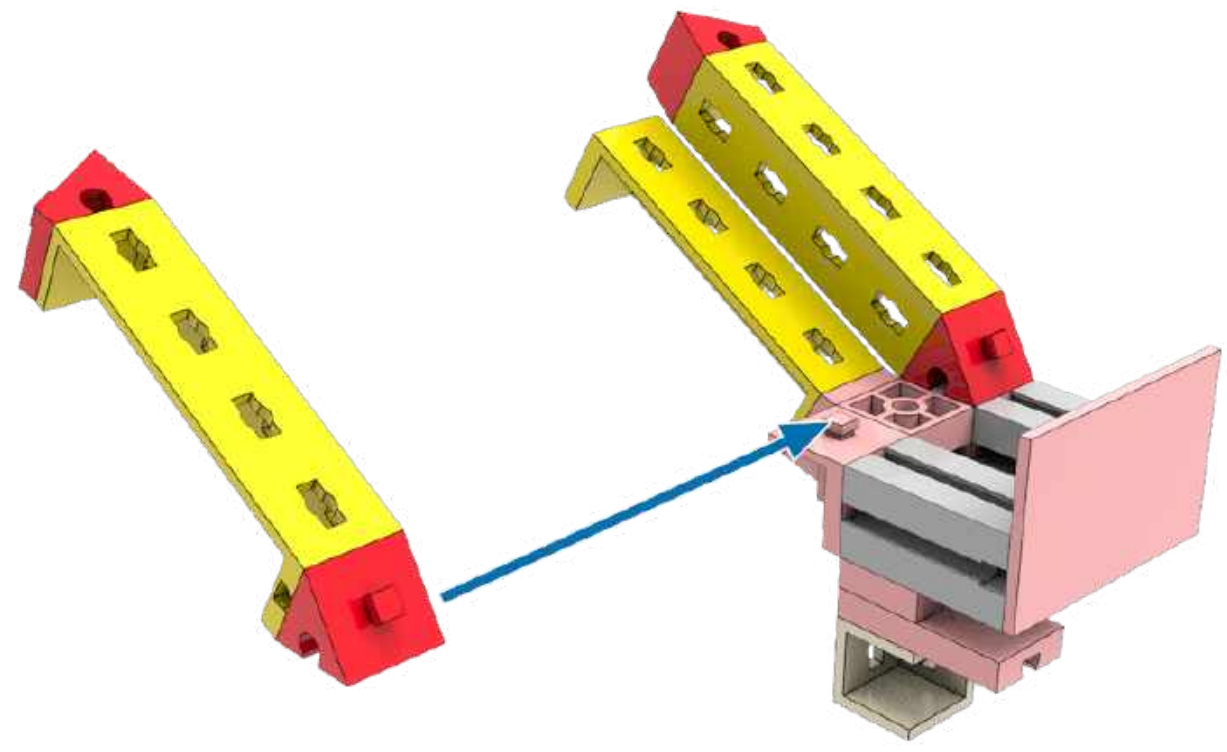
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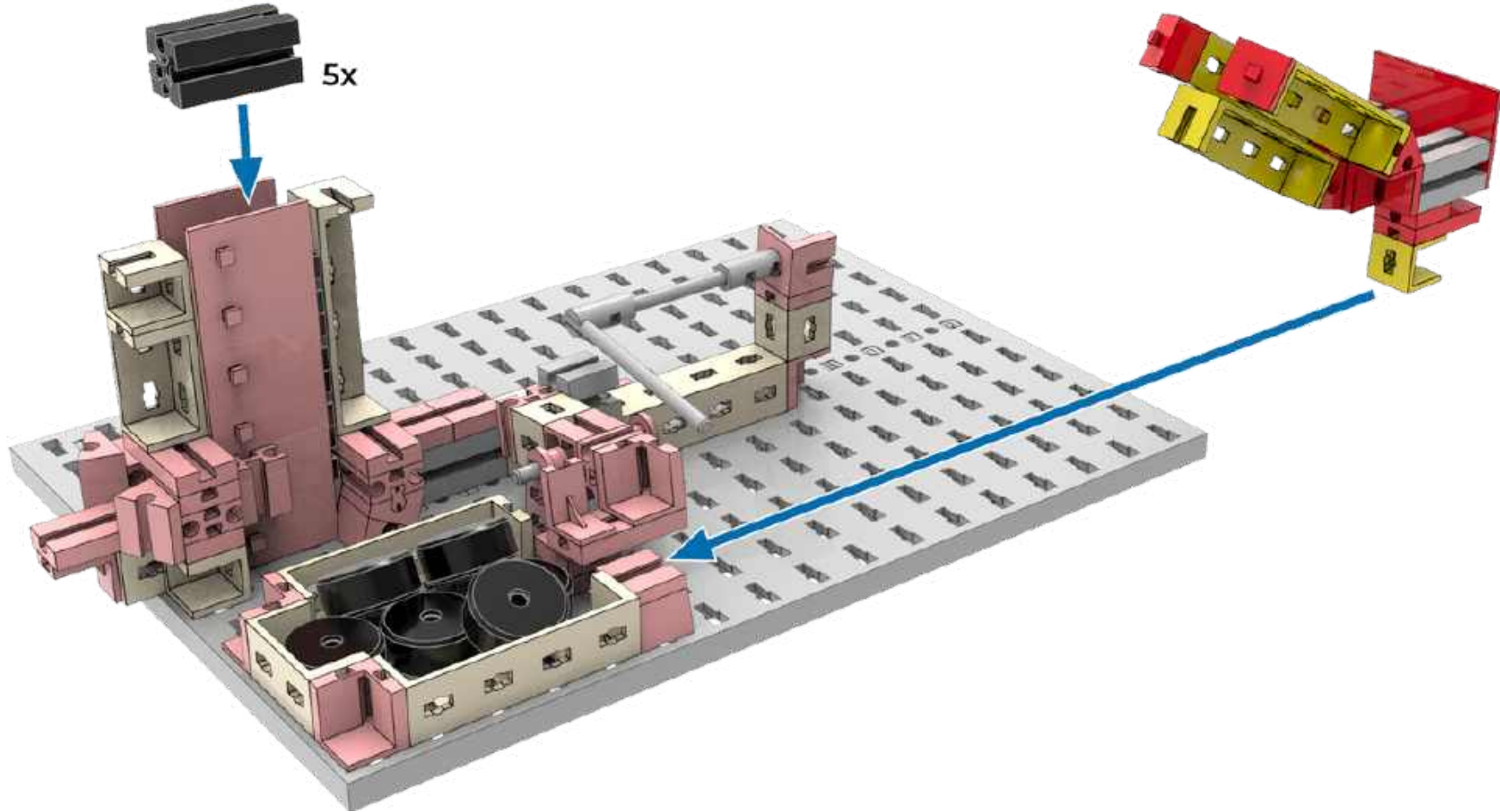
22  1x  1x  1x  30° 1x



23 ^{60°} 2x ^{30°} 2x 3x

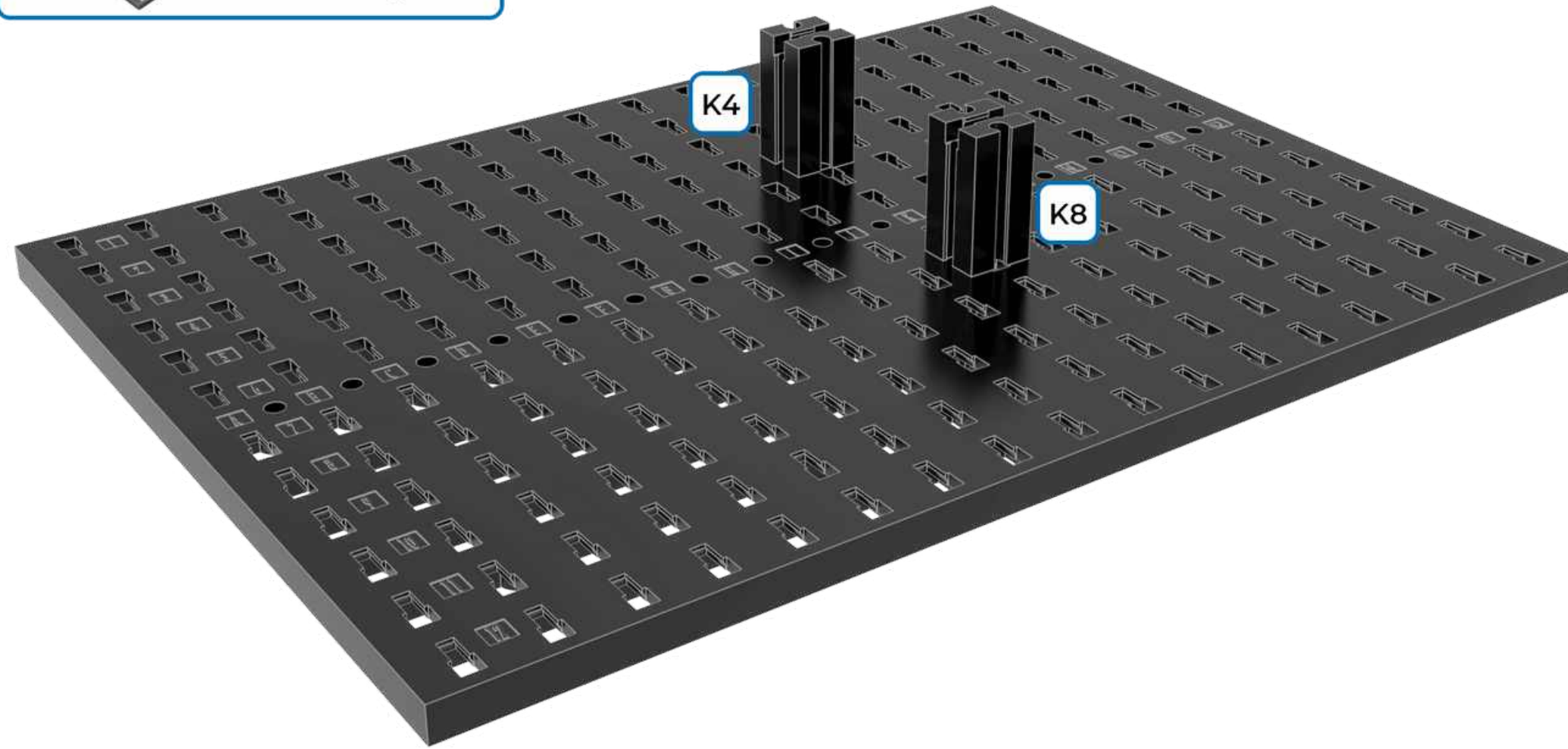
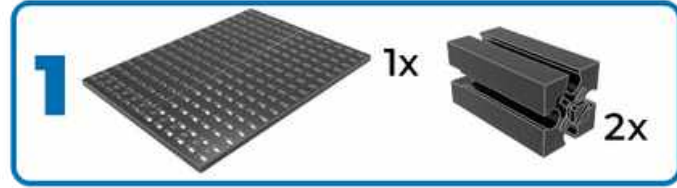


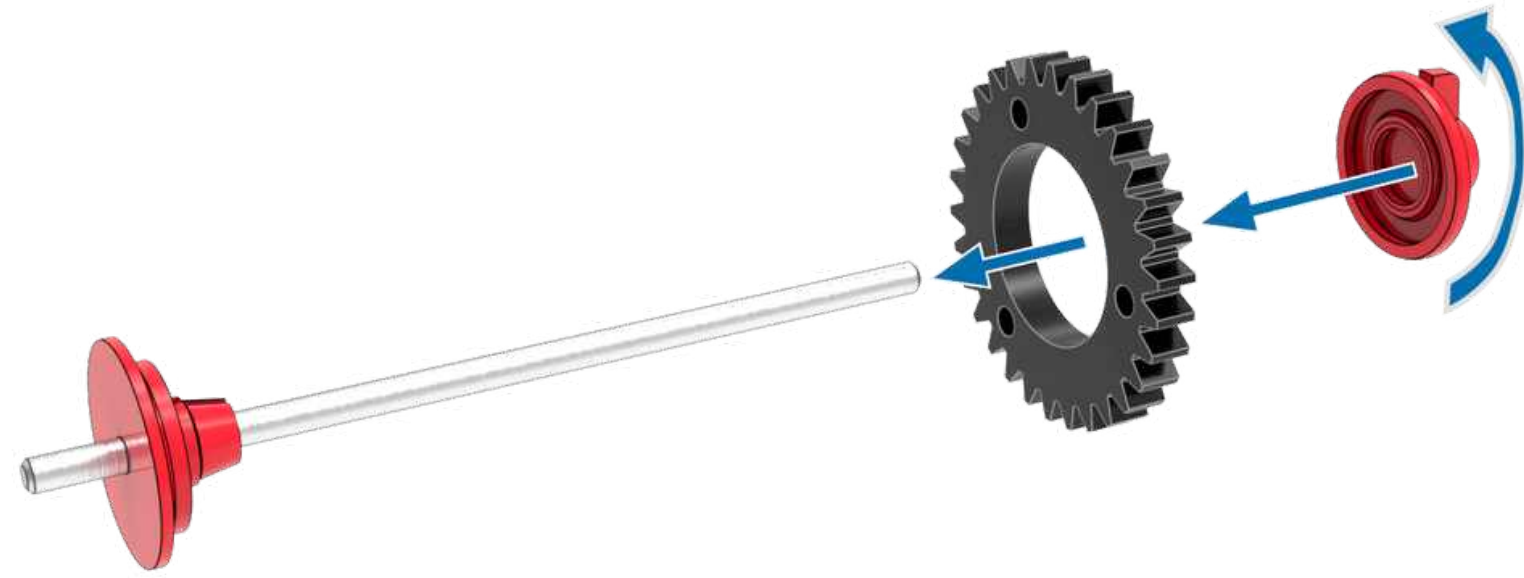
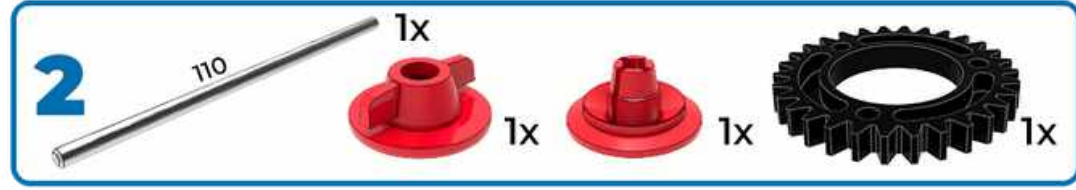
24  5x  6x



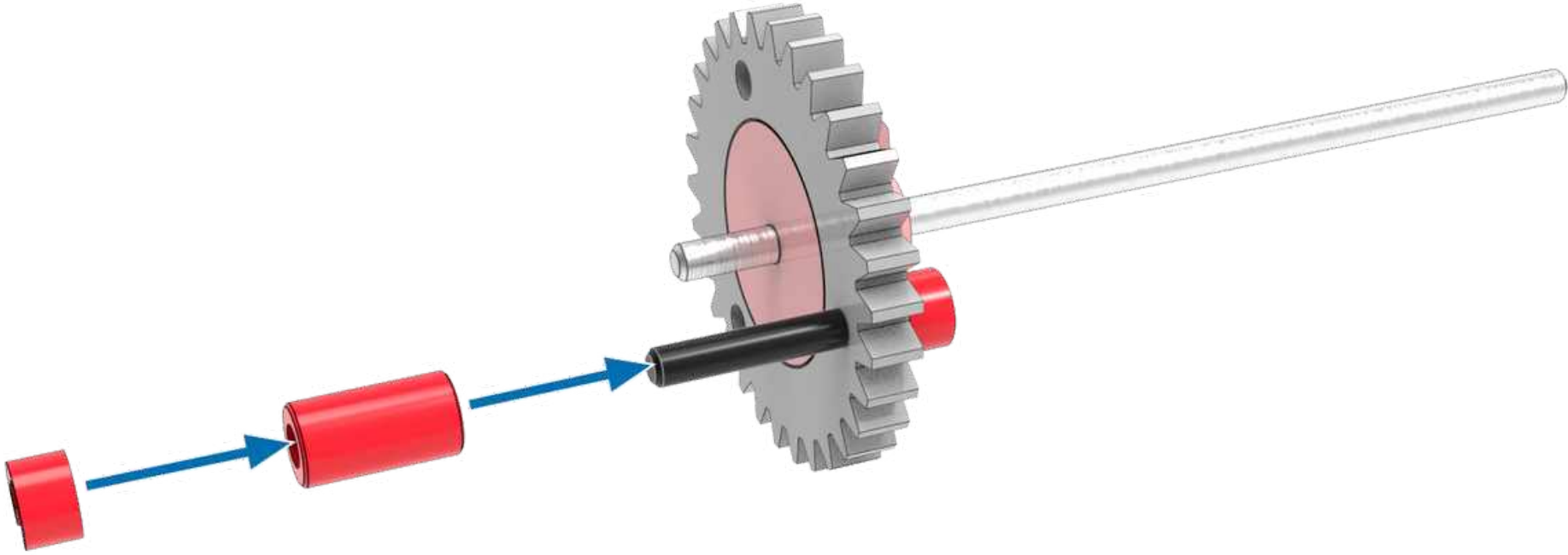
Aufzug



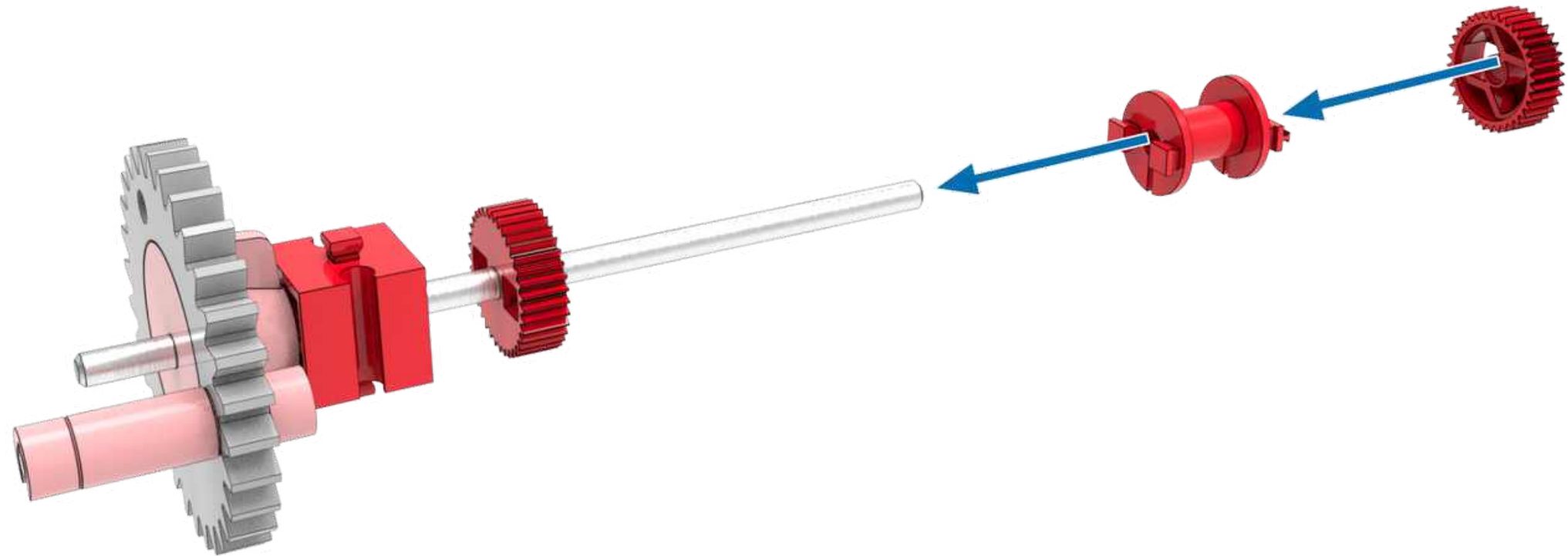





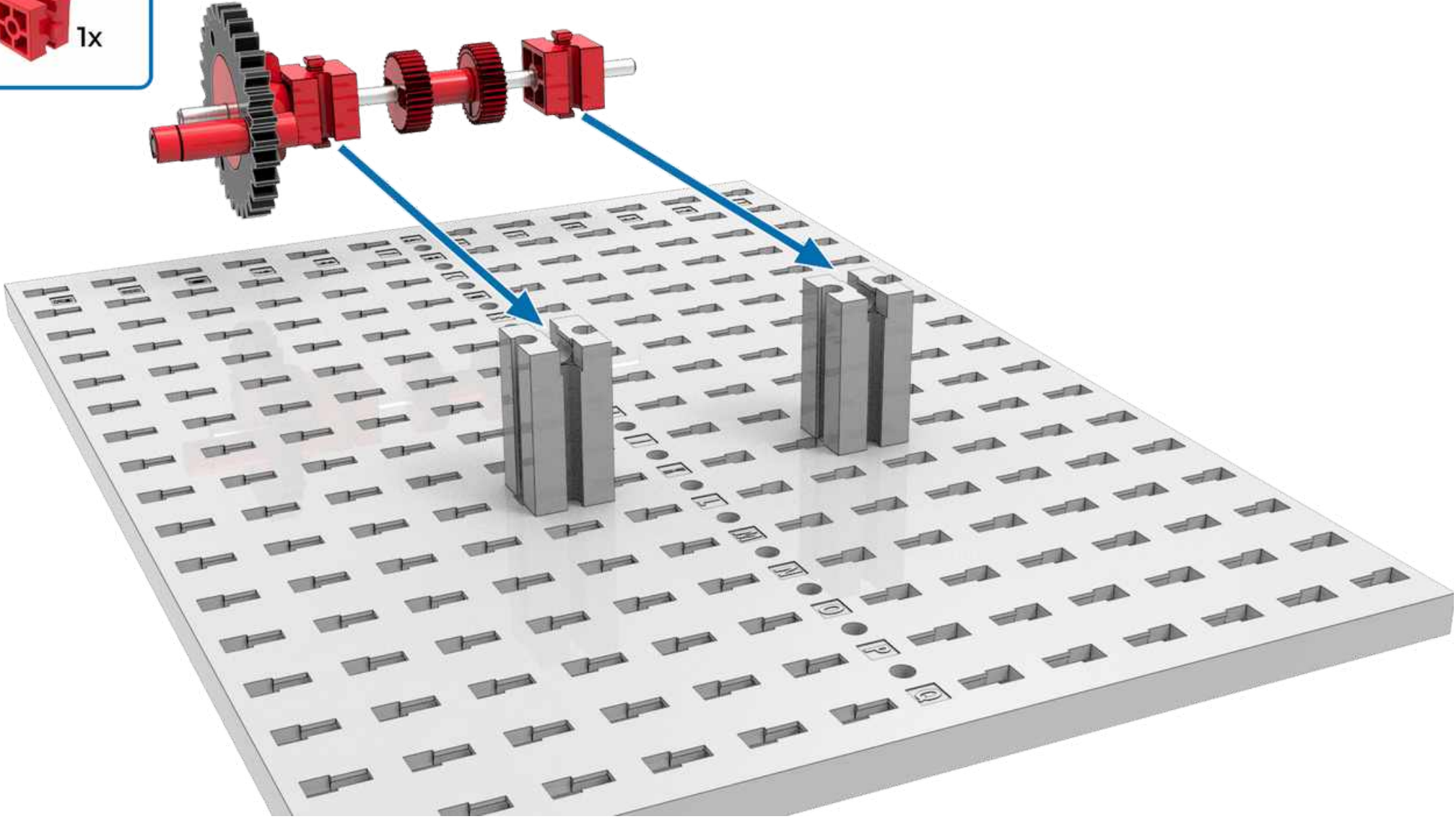
3 30 1x
2x 1x



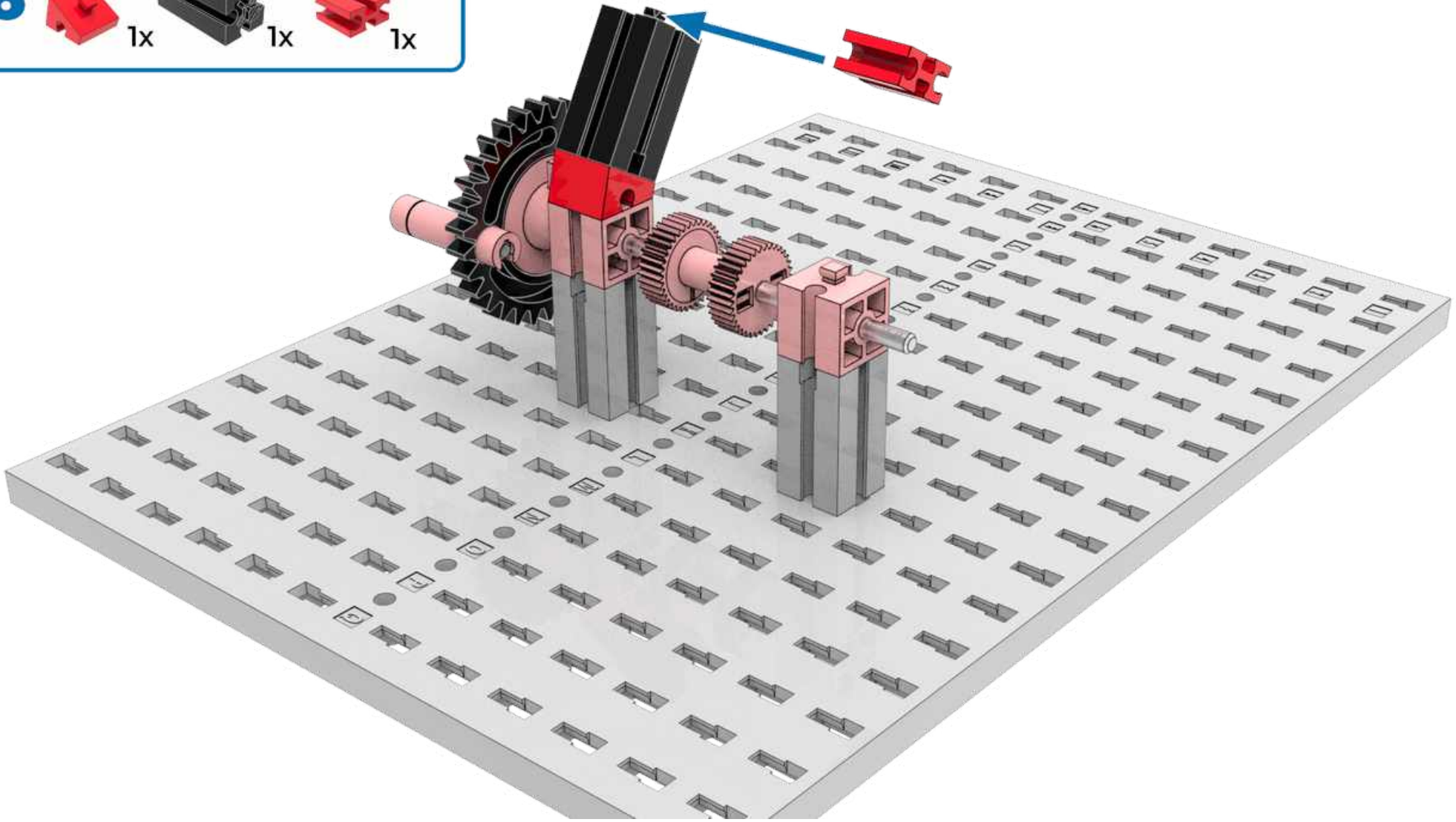
4  1x  1x  2x

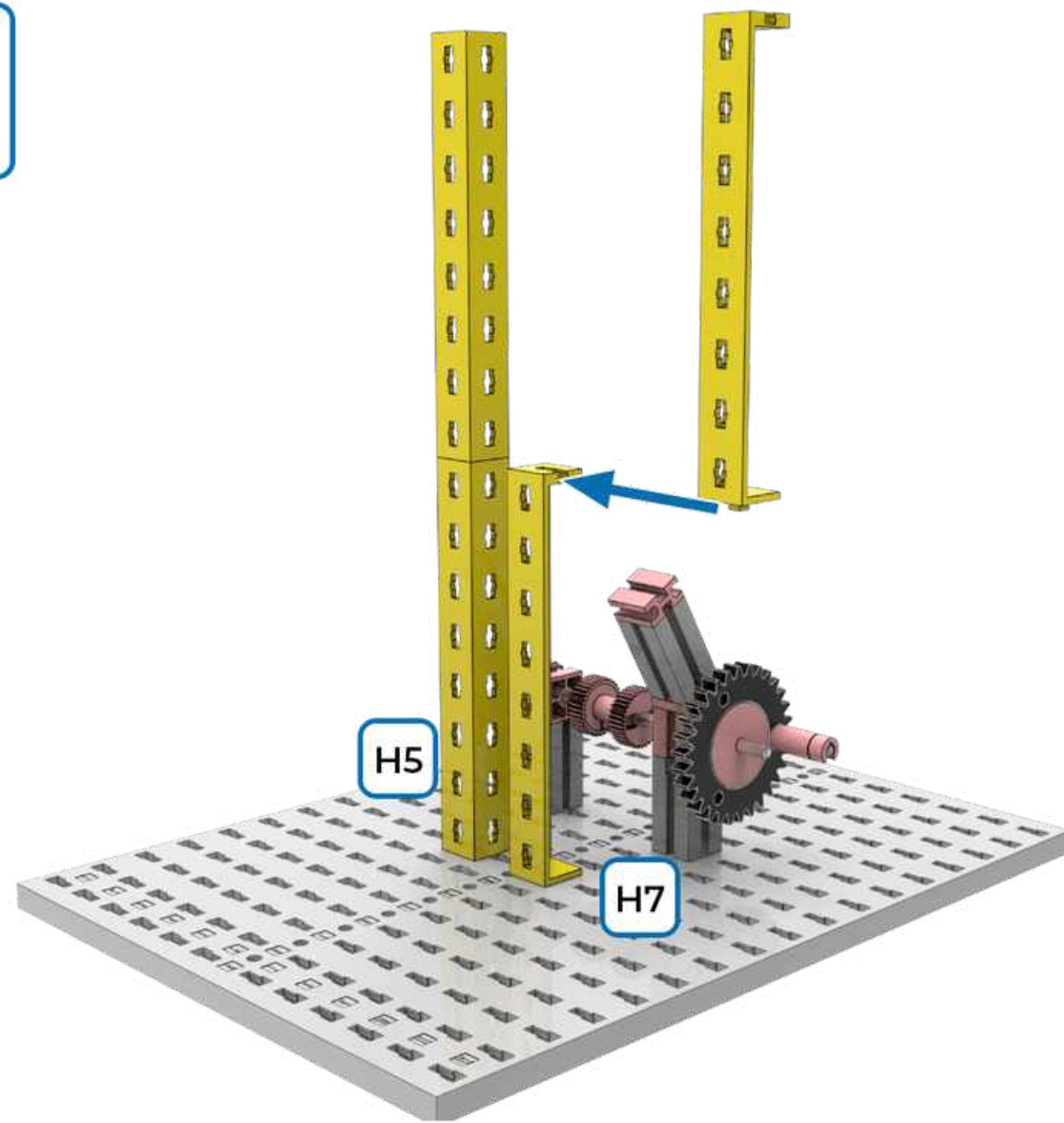


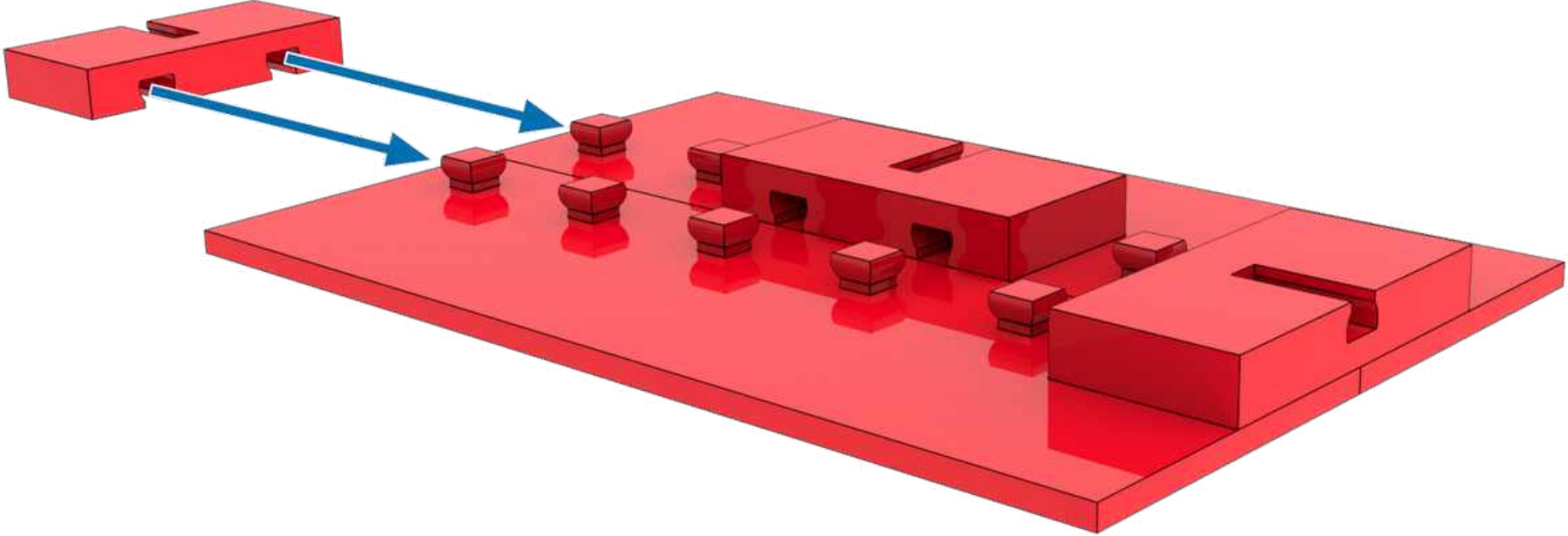
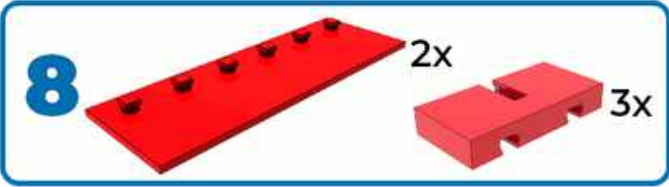
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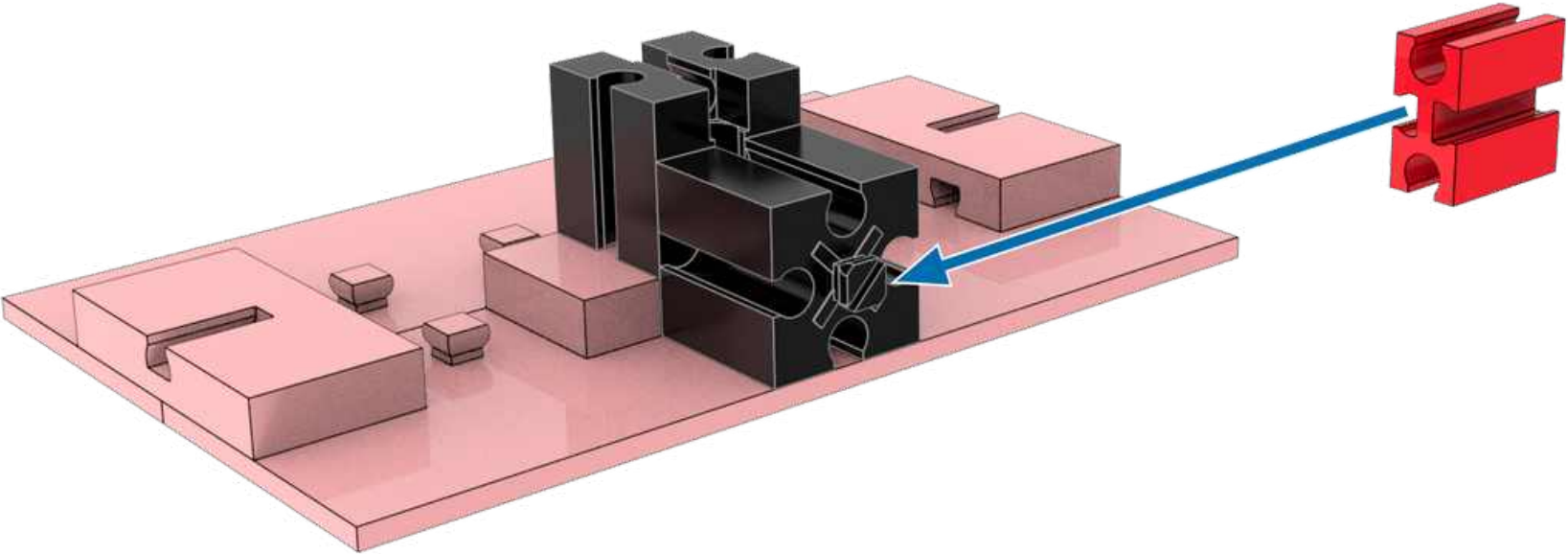
6 30° 1x 1x 1x







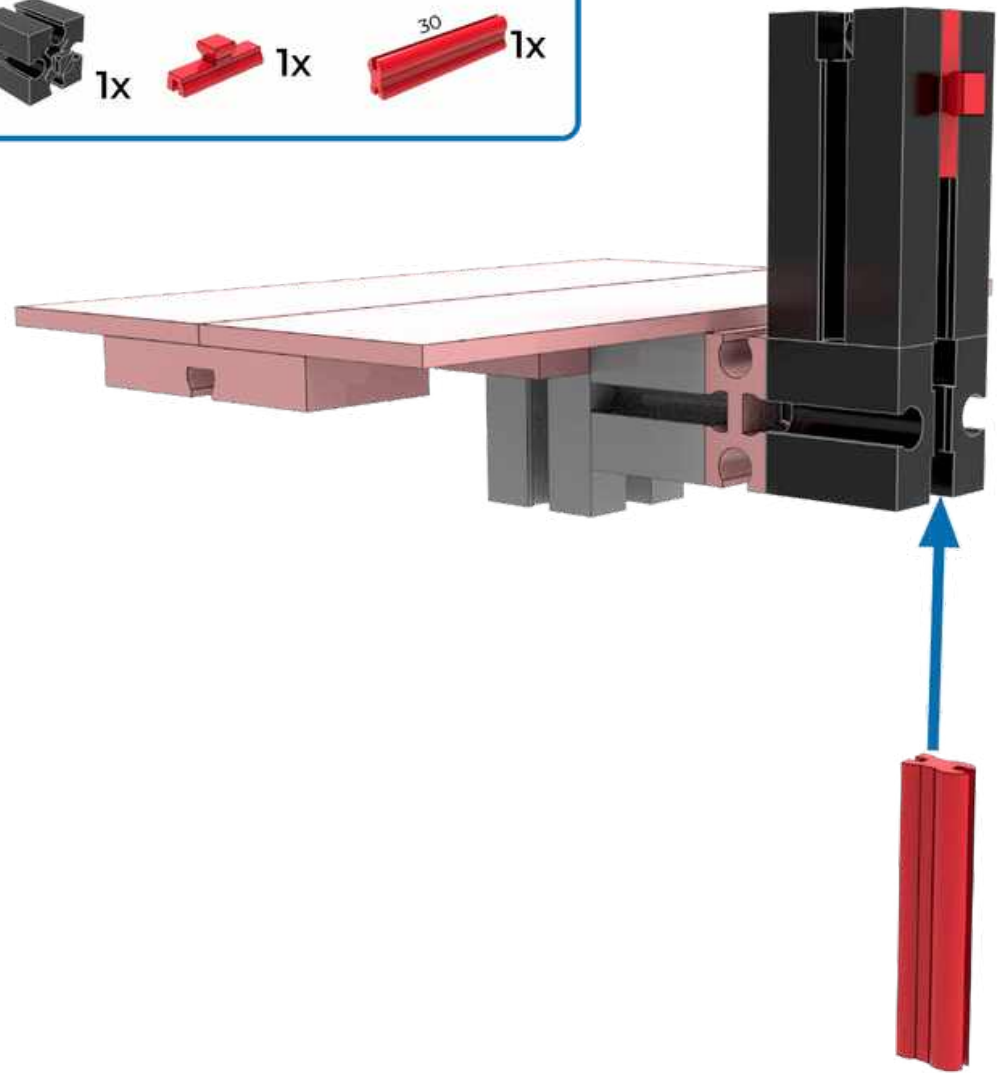








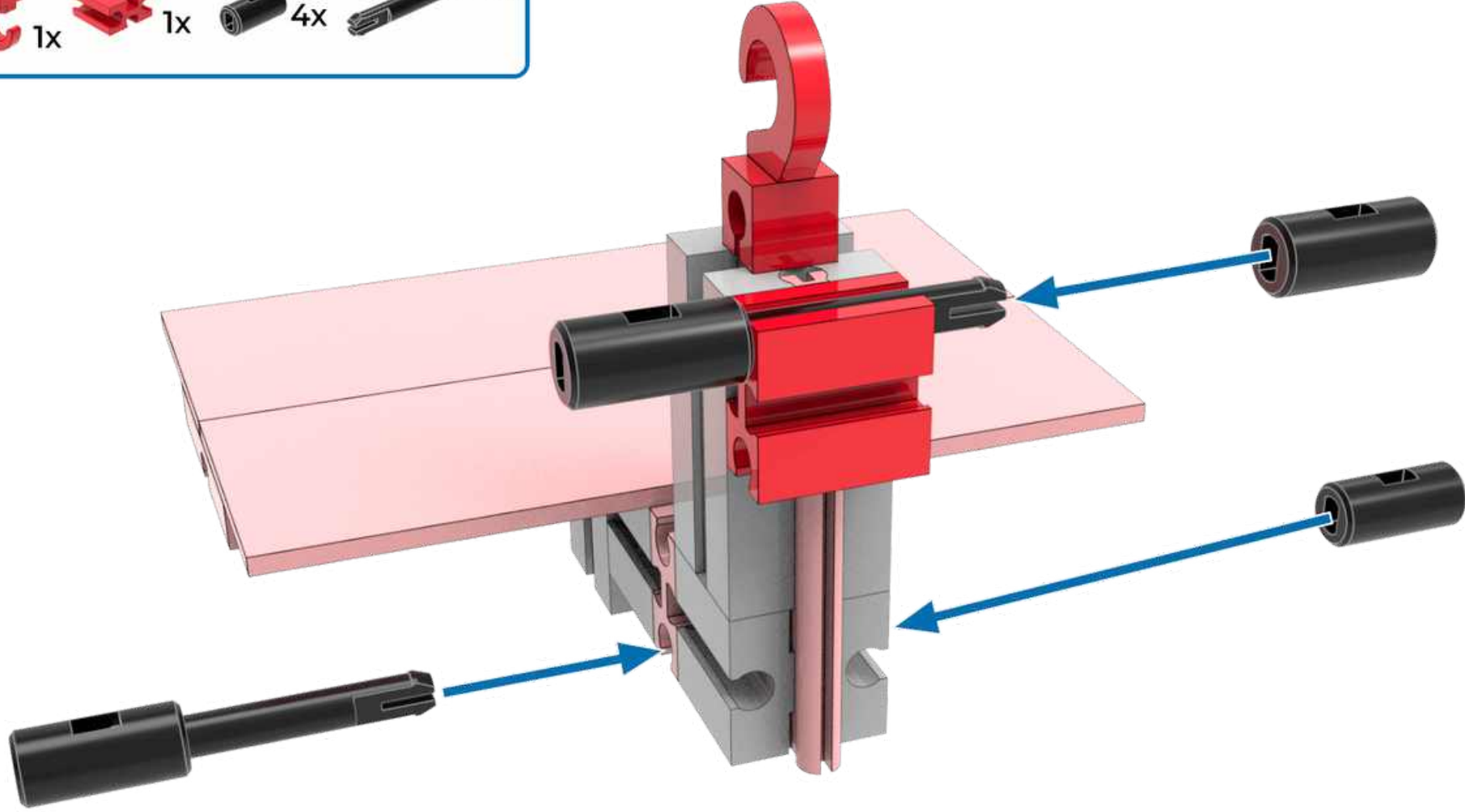
9  1x  1x  1x



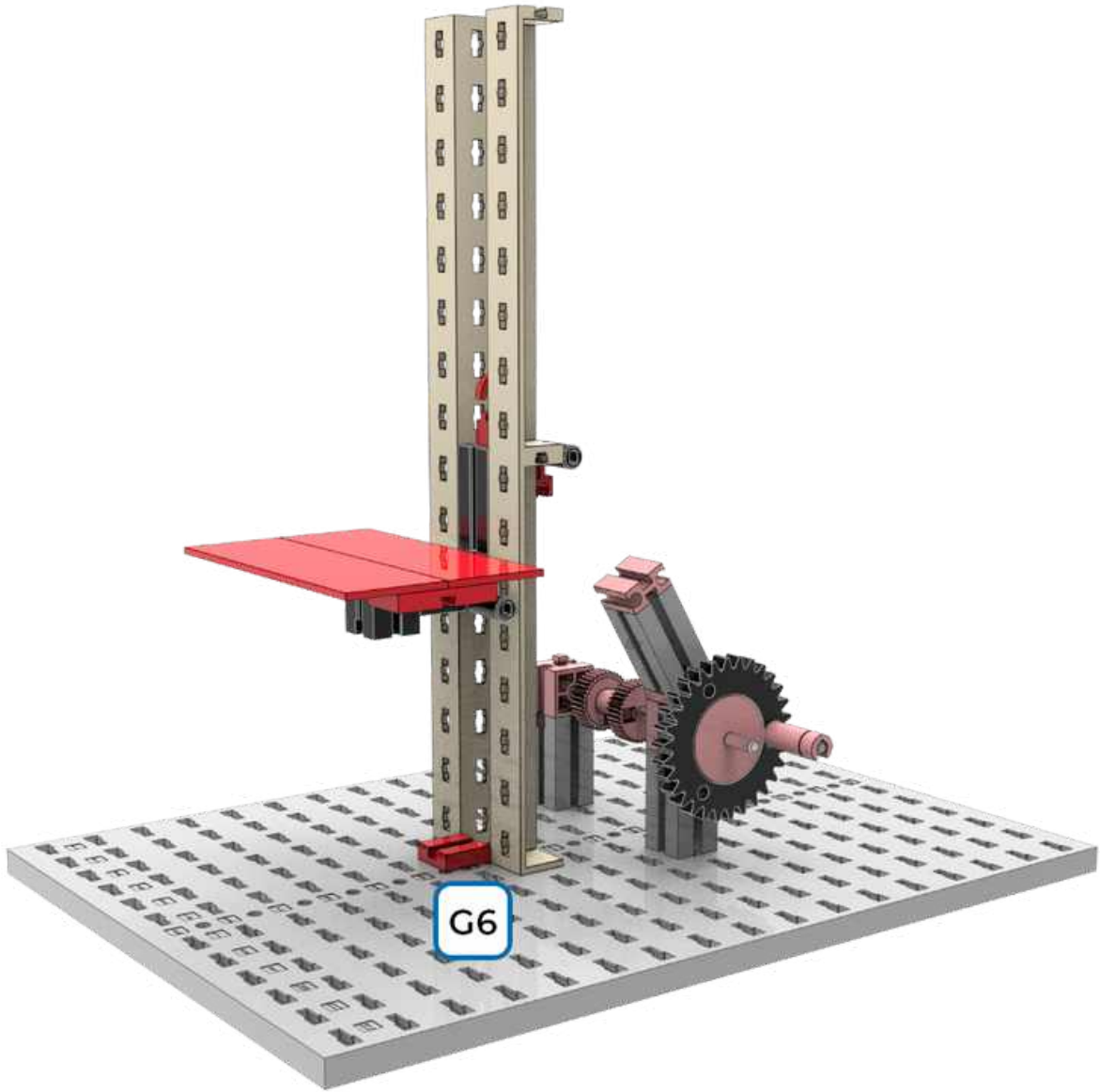
10  1x  1x  1x  1x



11  1x  1x  4x  2x




12  1x



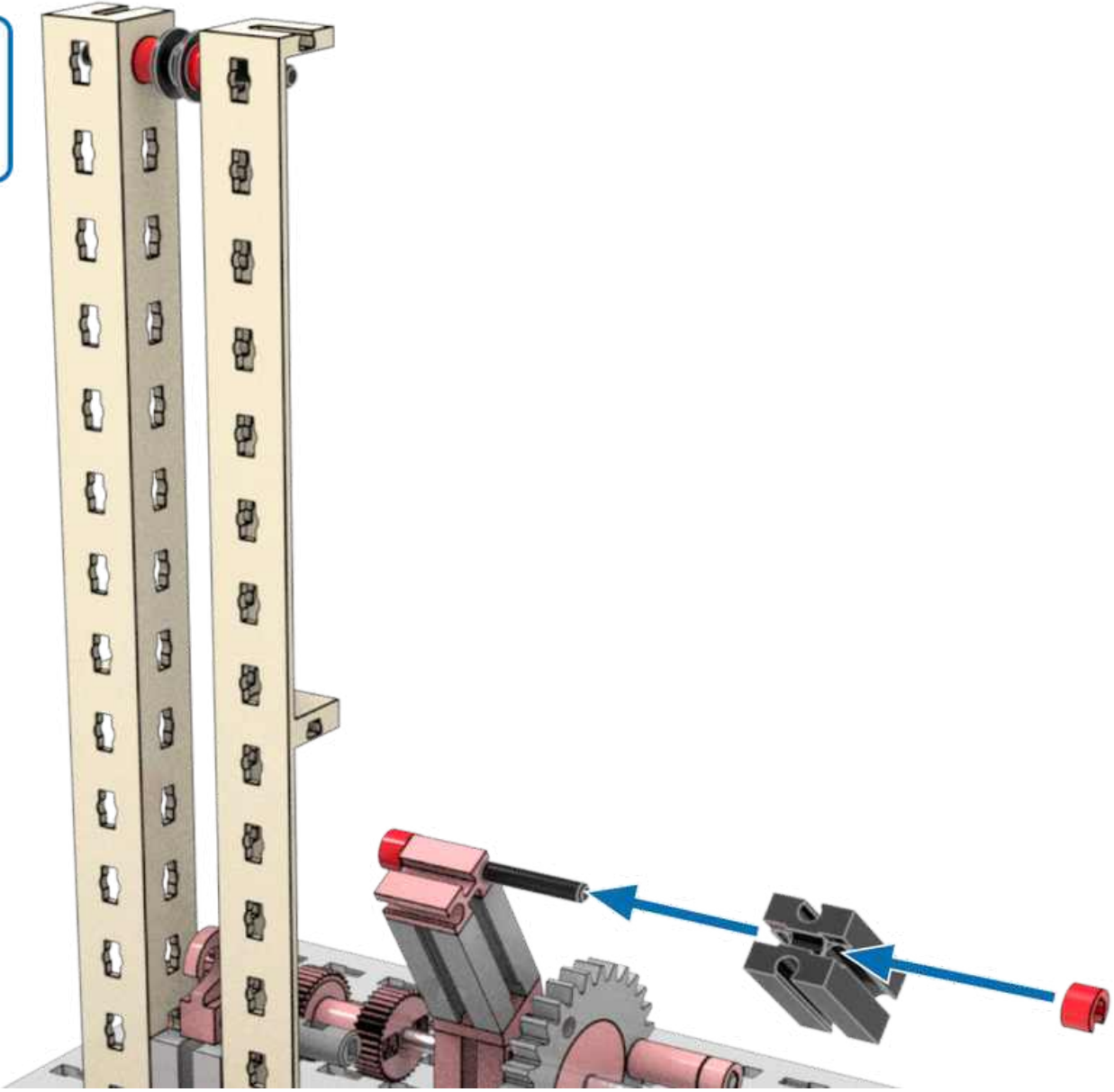
13 40 1x 1x 2x



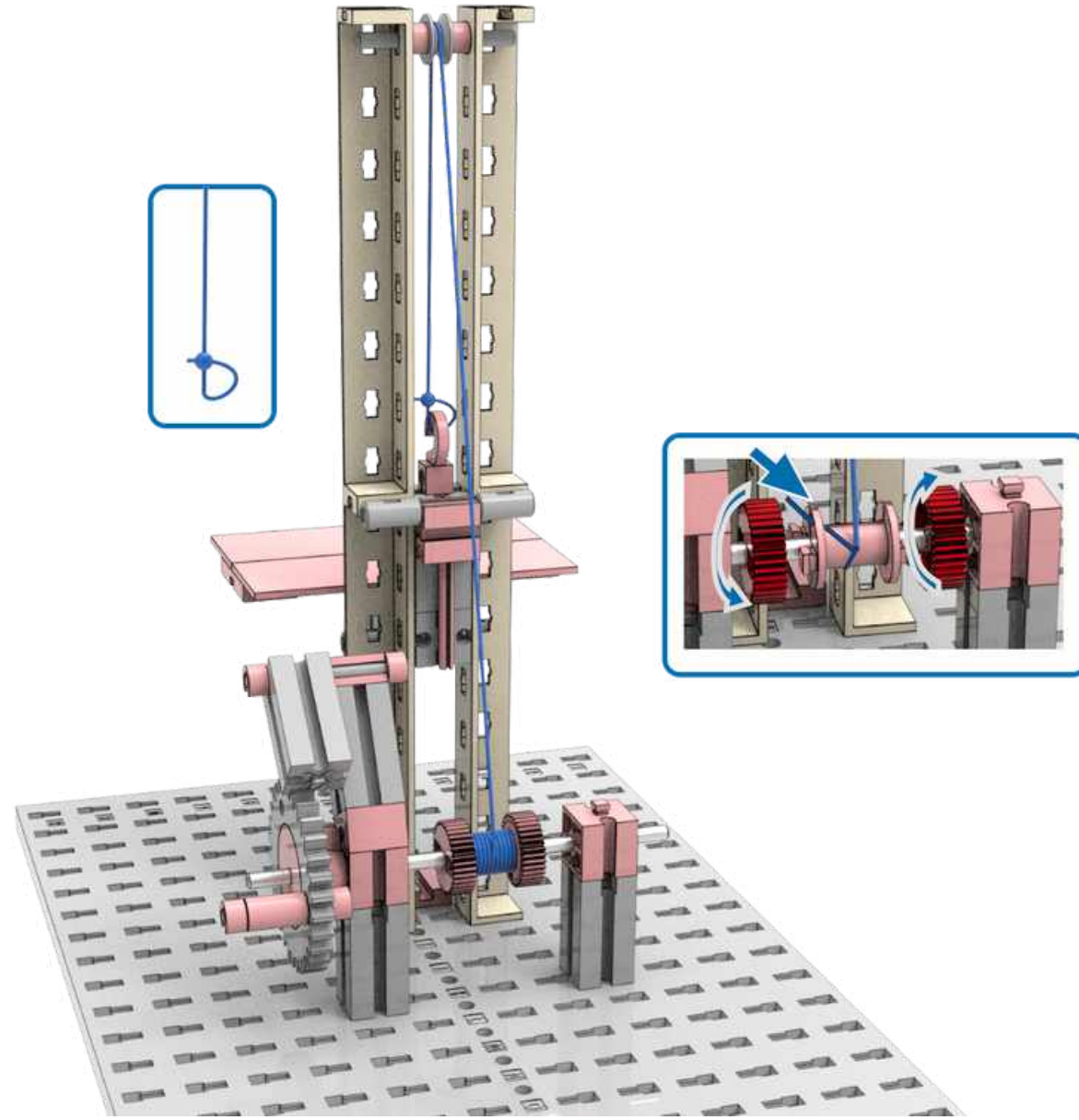
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1x 40 1x 2x

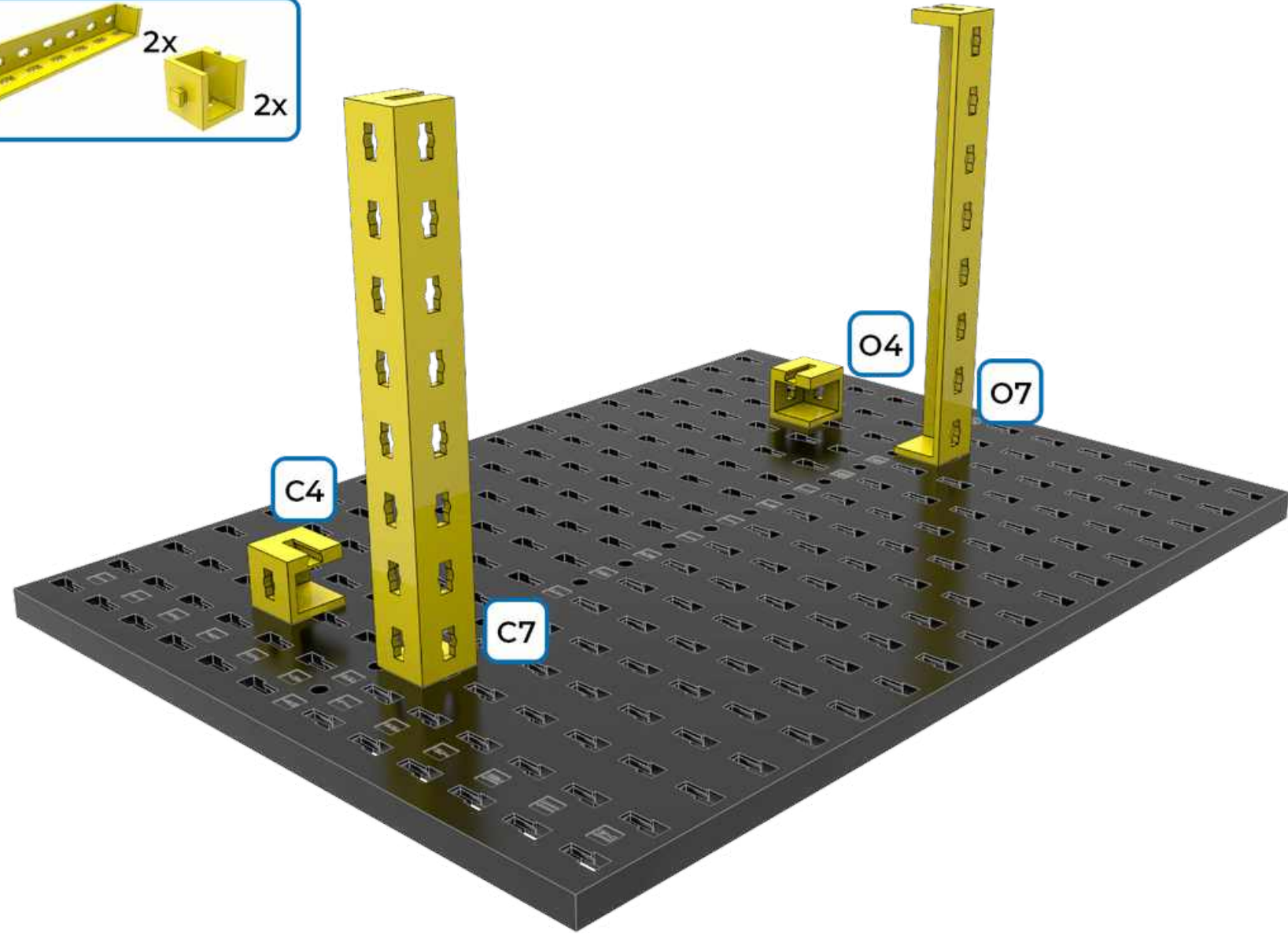
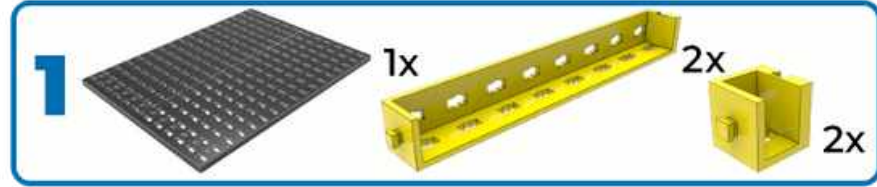




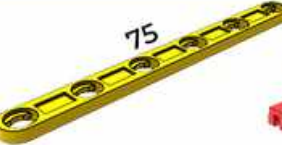

15  1x

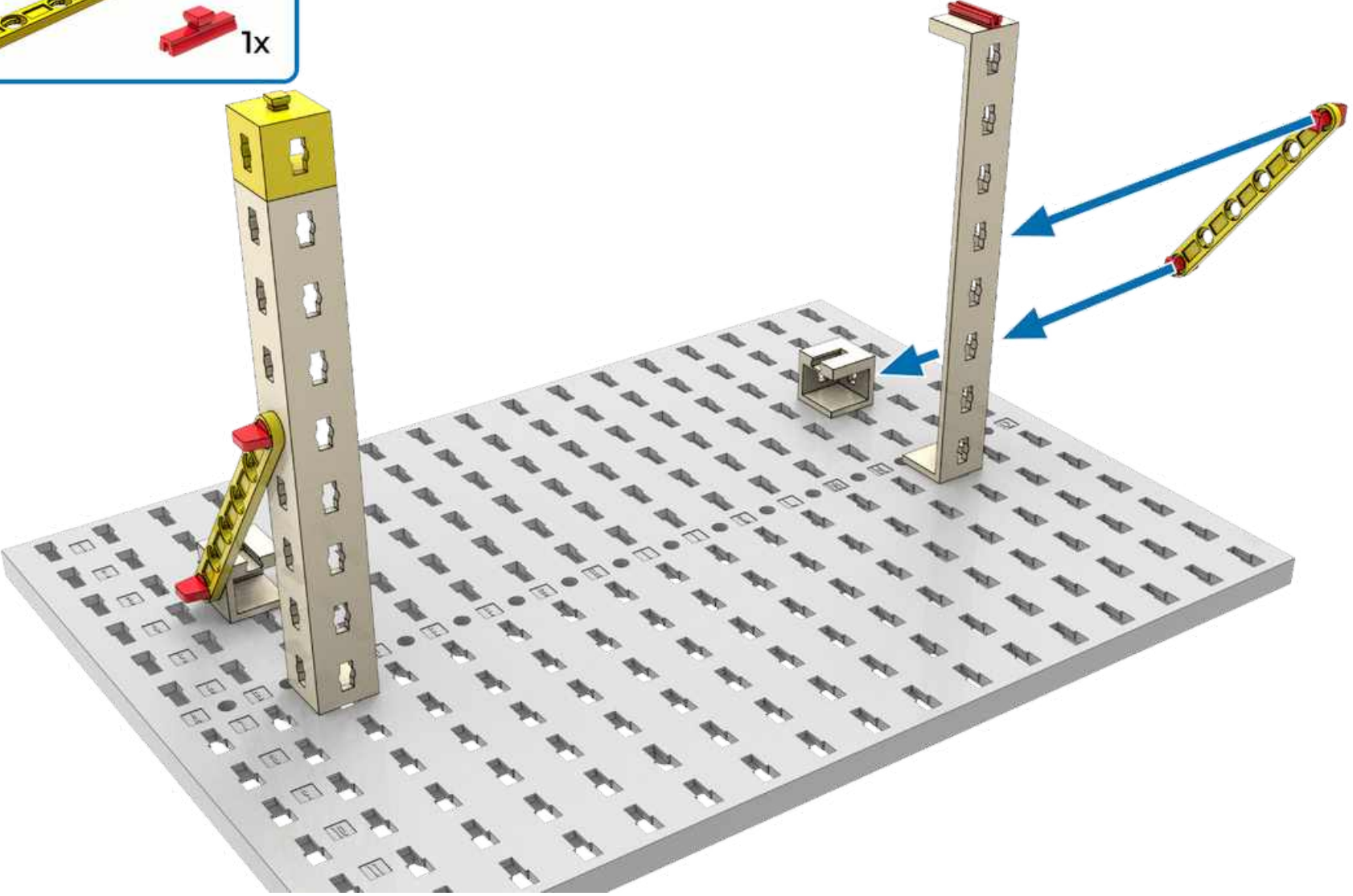


Kniegelenk

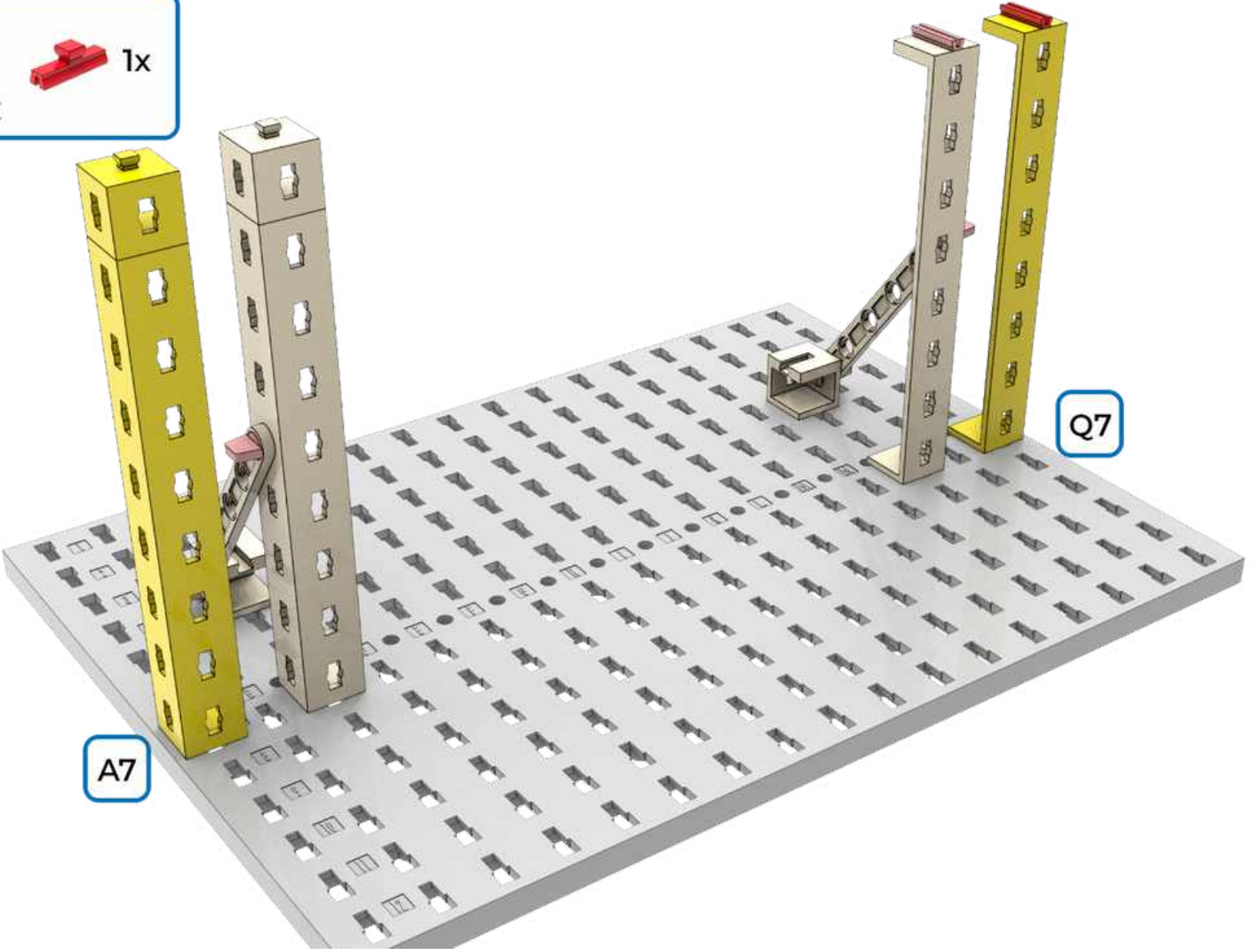








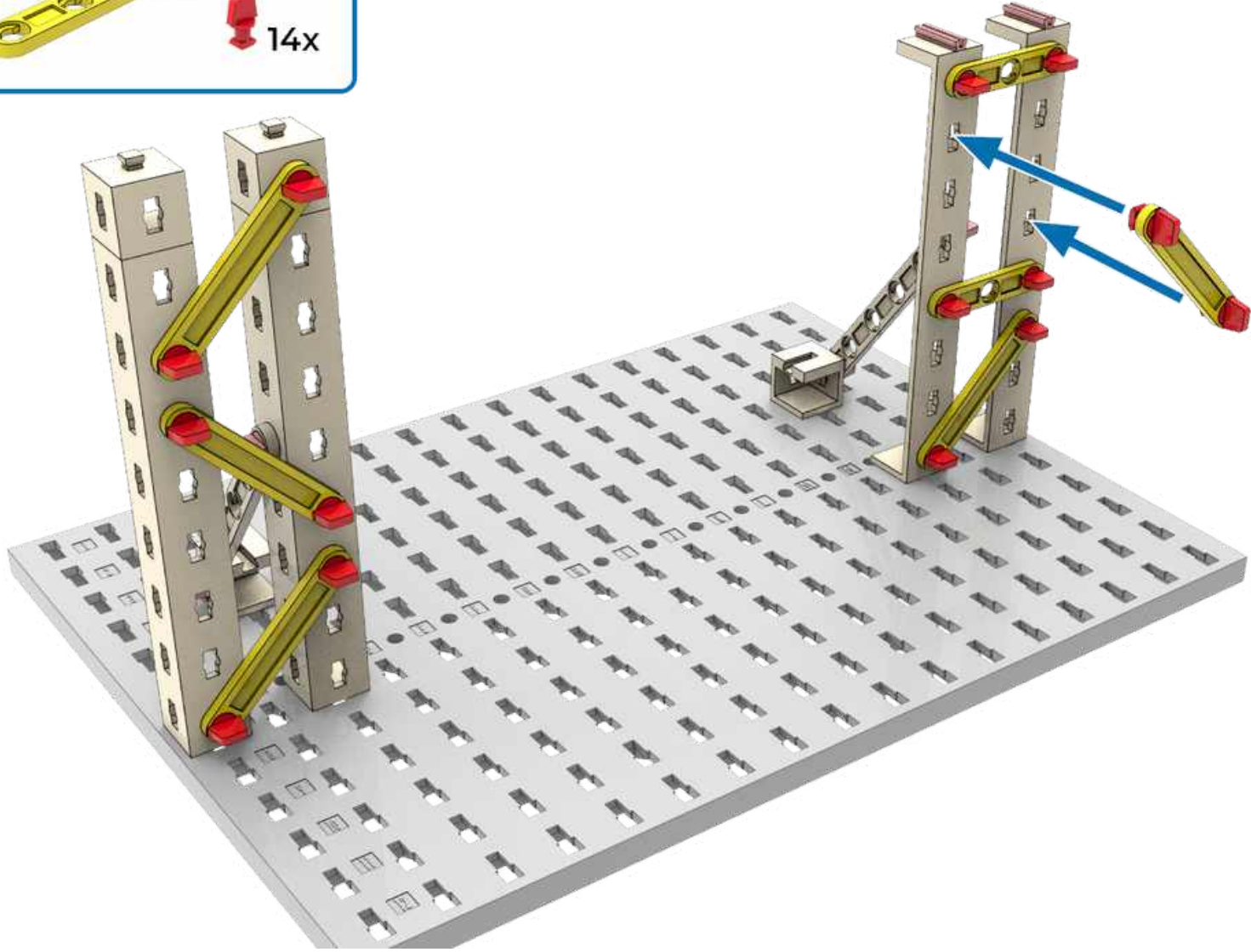
2  1x  4x  2x  1x





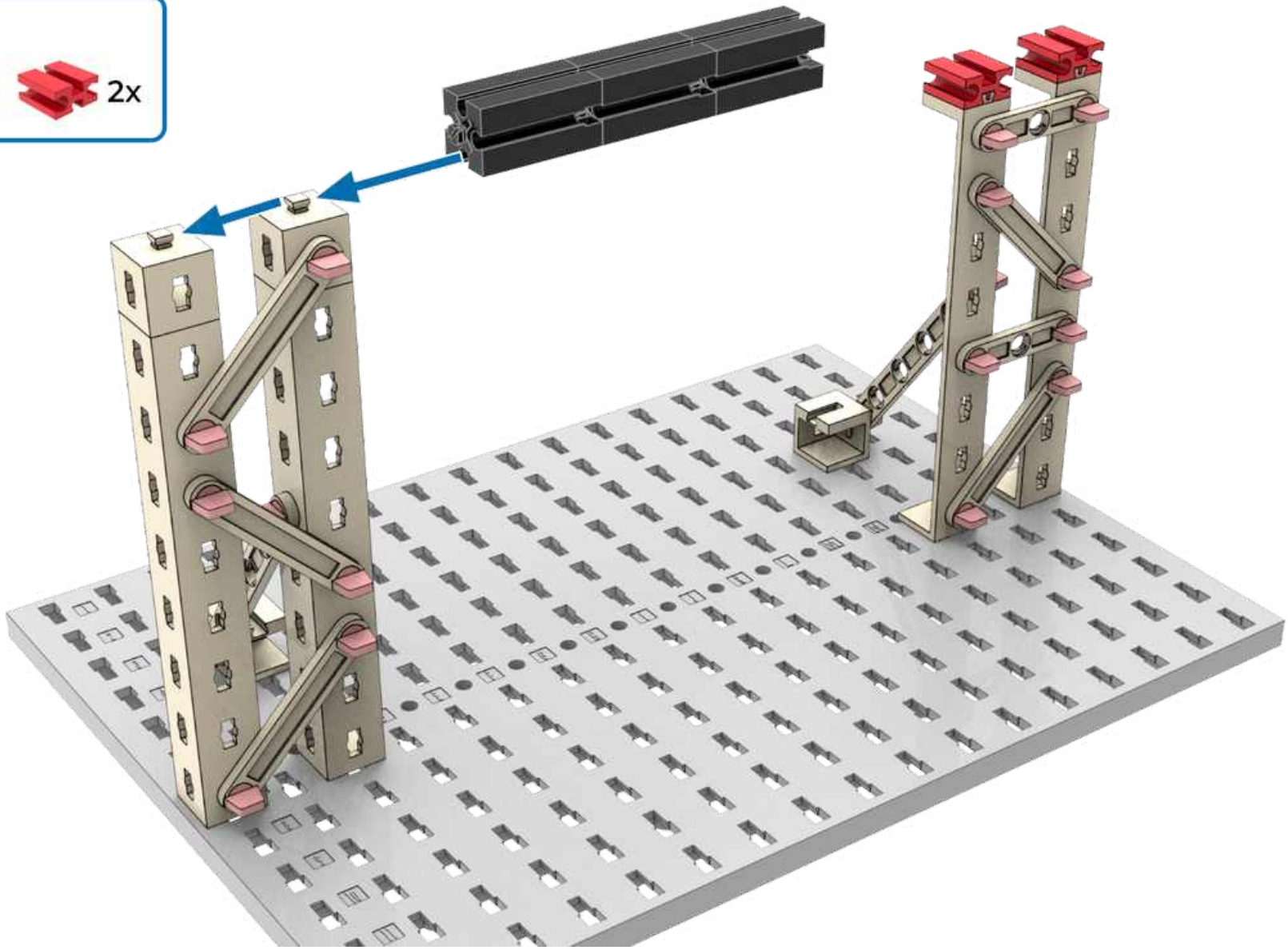
3 2x 1x 1x






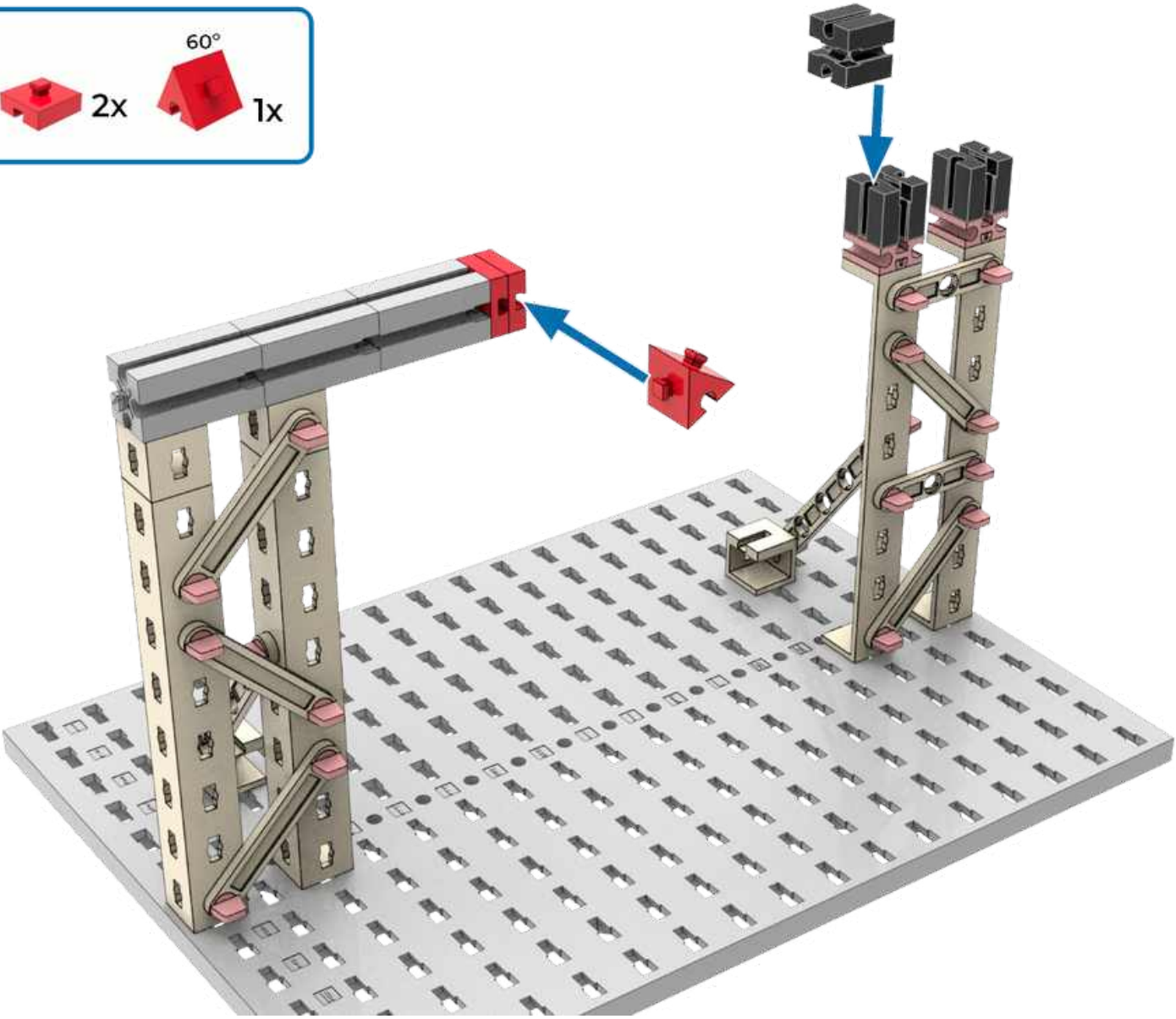
4  5x  2x  14x






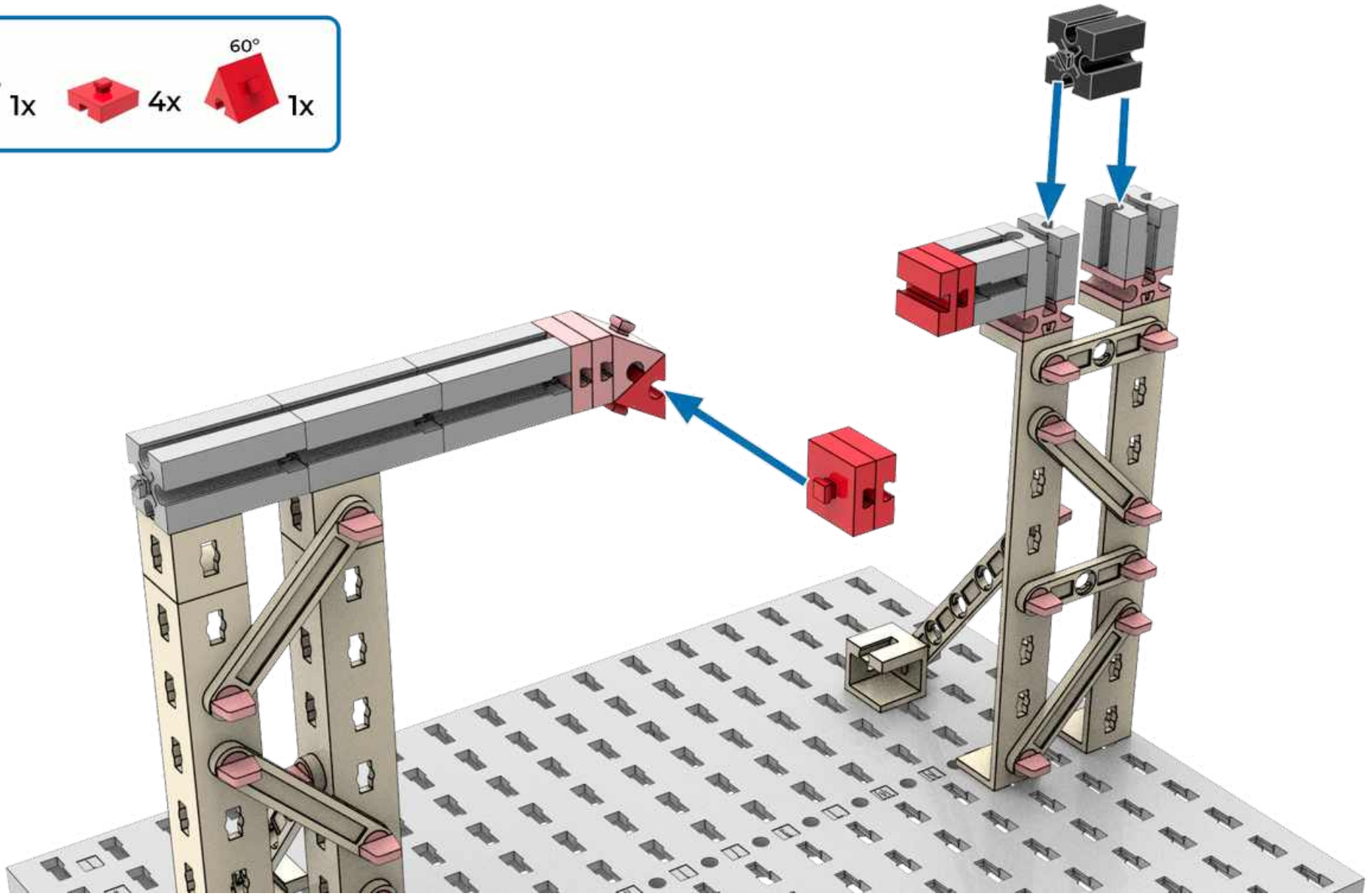
5  3x  2x



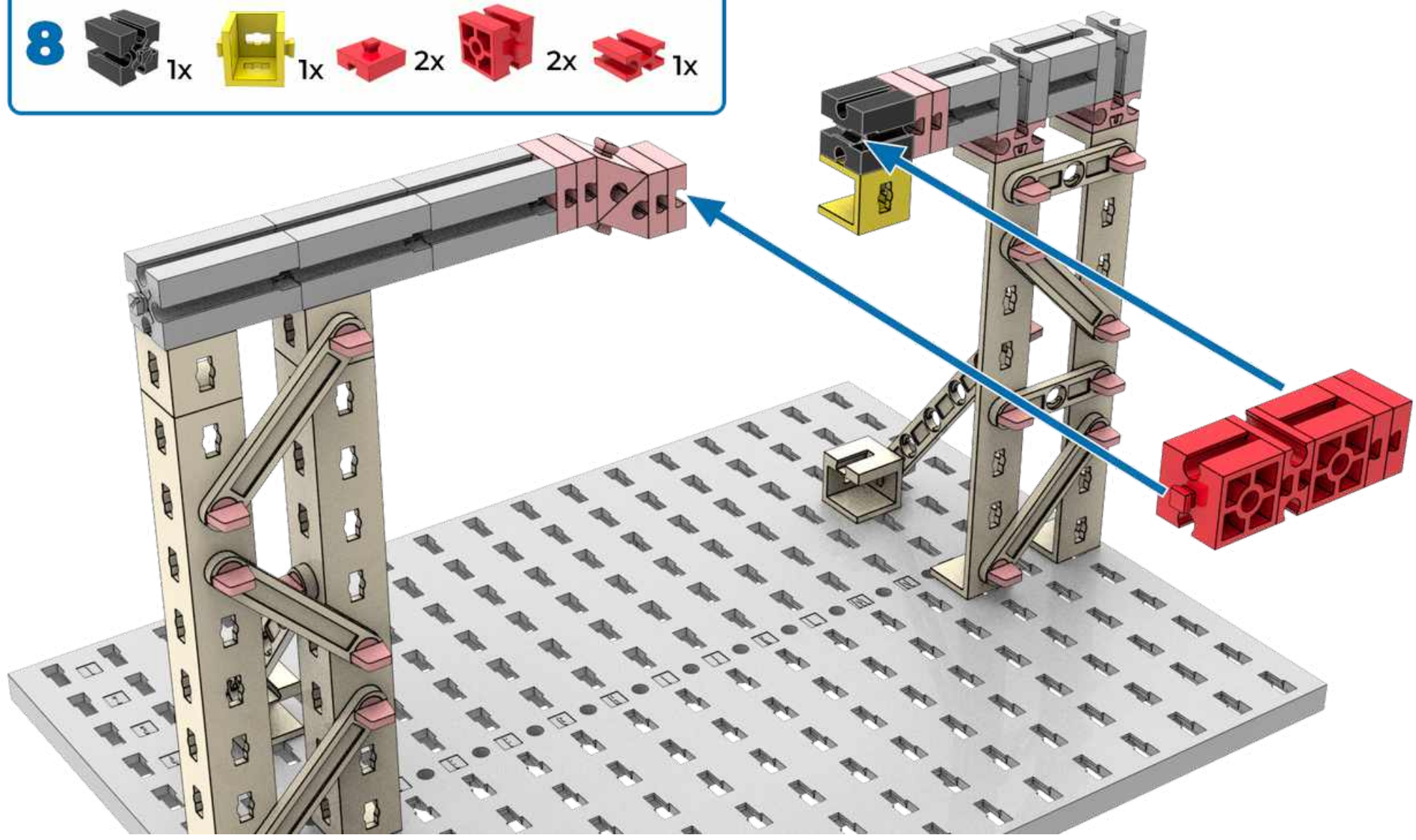
6  3x  2x  1x

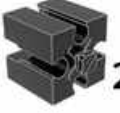



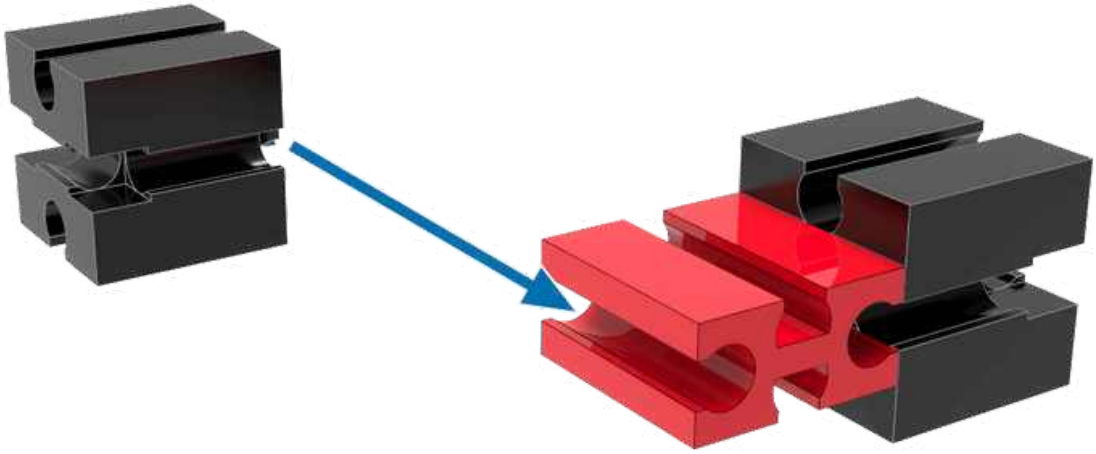
7  1x  4x  1x





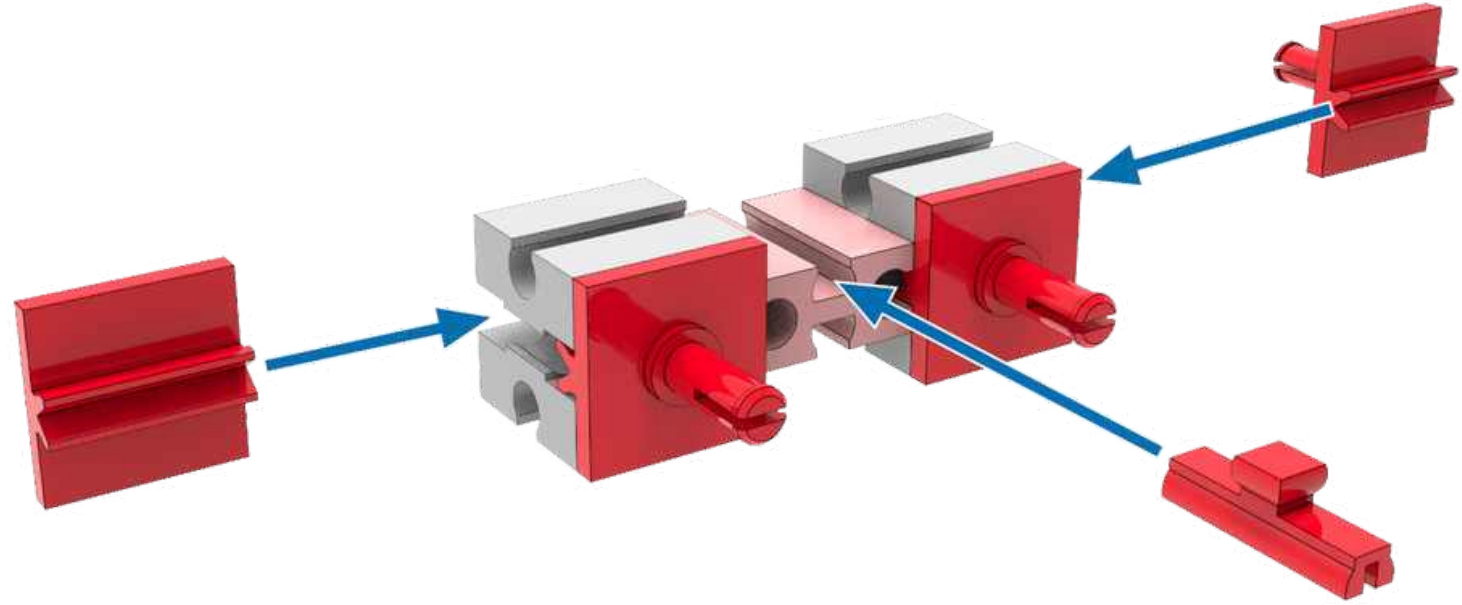
- 8
- 1x Black Technic Pin
 - 1x Yellow Technic Bracket
 - 2x Red Technic Pin
 - 2x Red Technic 1x3 Technic Beam
 - 1x Red Technic 1x2 Technic Beam



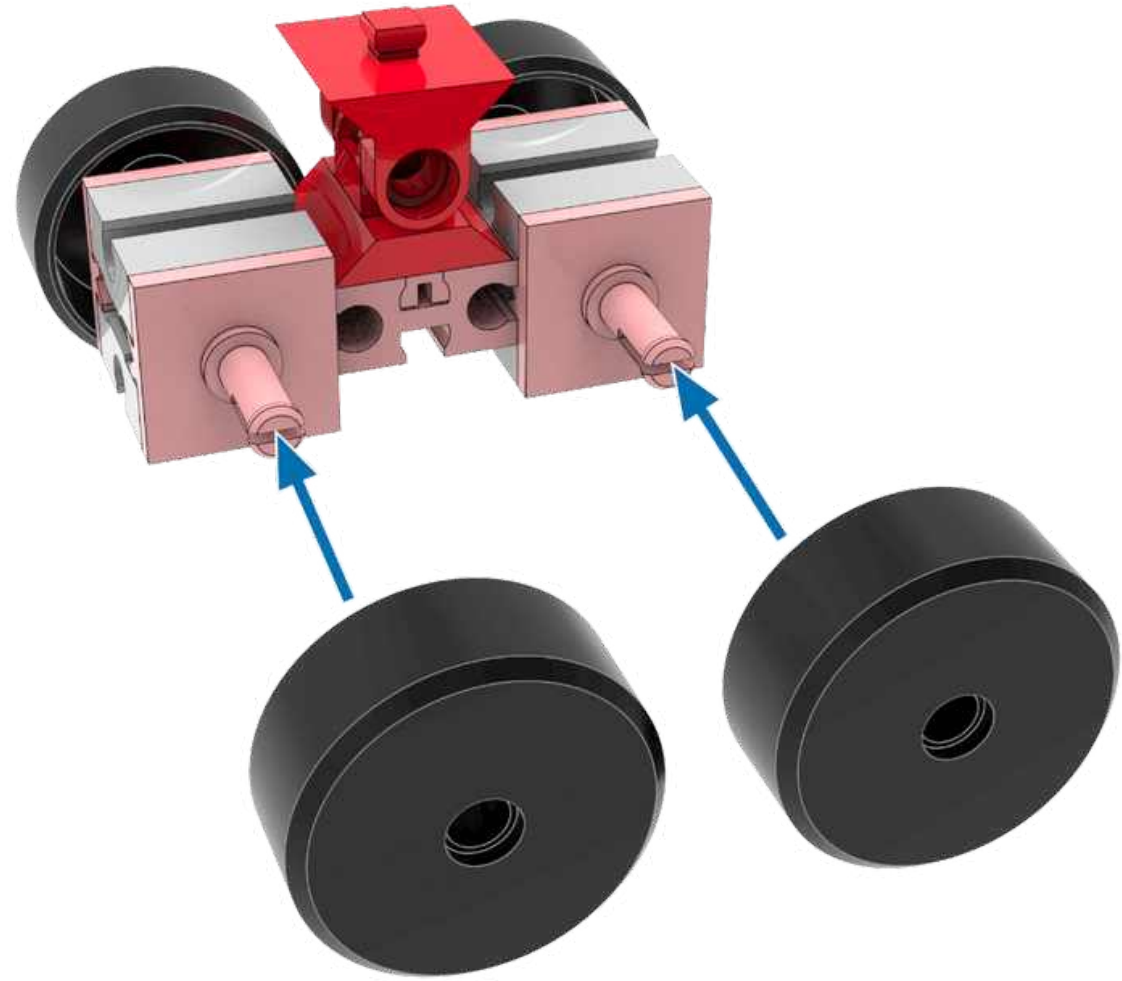
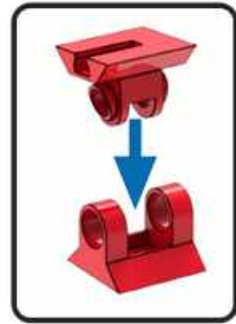
9  2x  1x







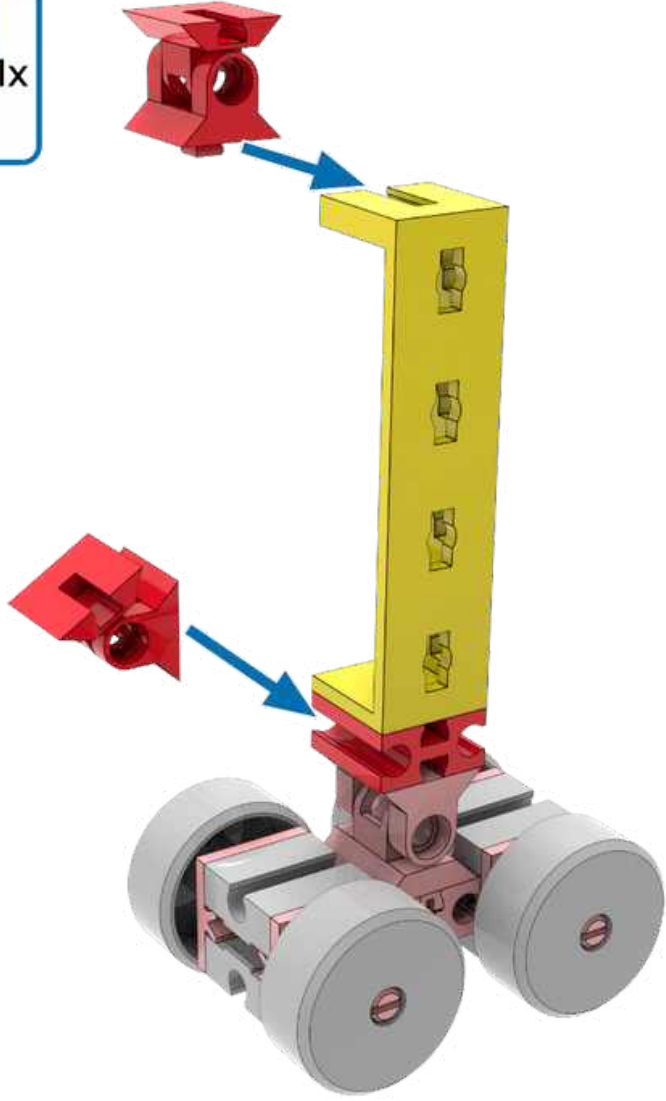
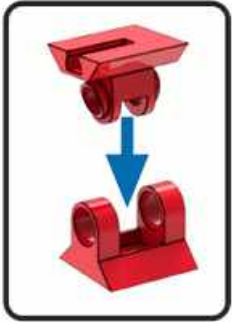
10  4x  1x








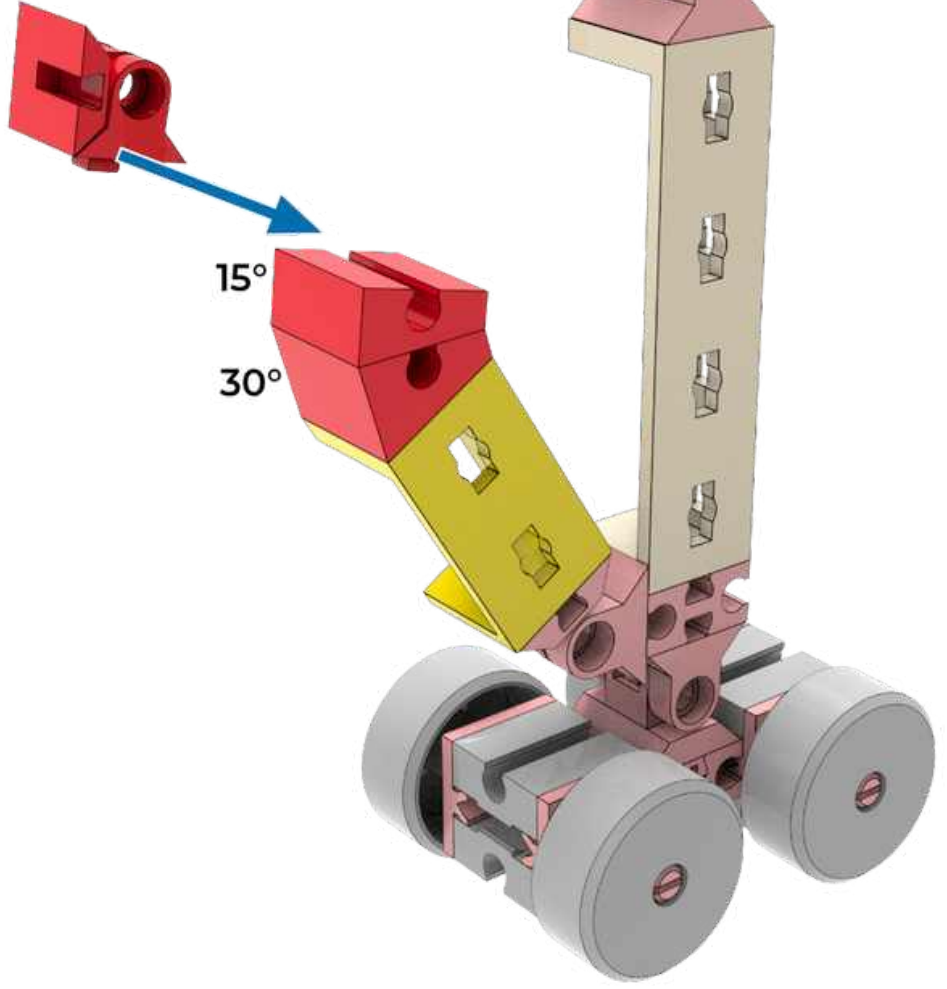
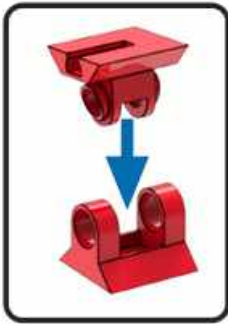
11  1x  1x  4x









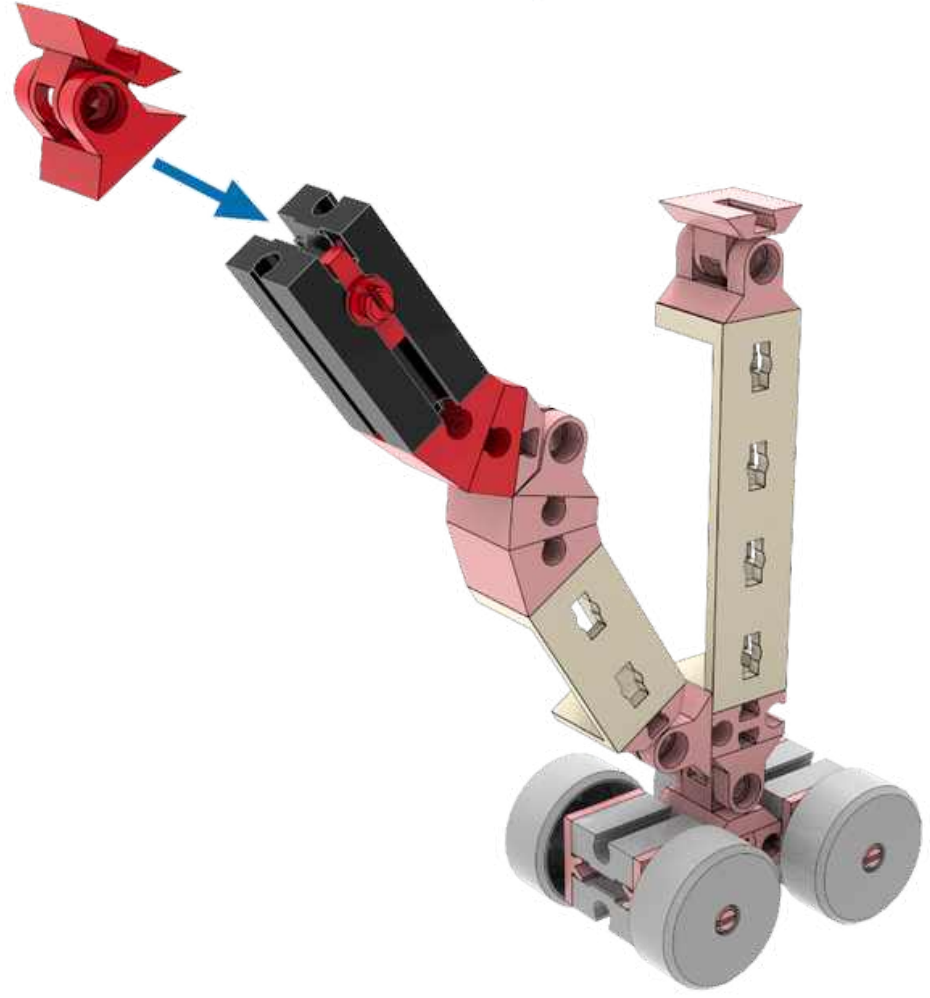
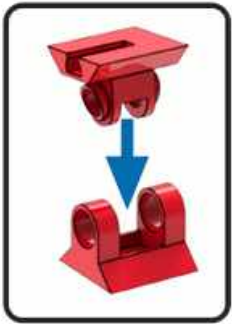
12  2x  2x  1x  1x



- 13**  1x  1x  1x  1x  1x



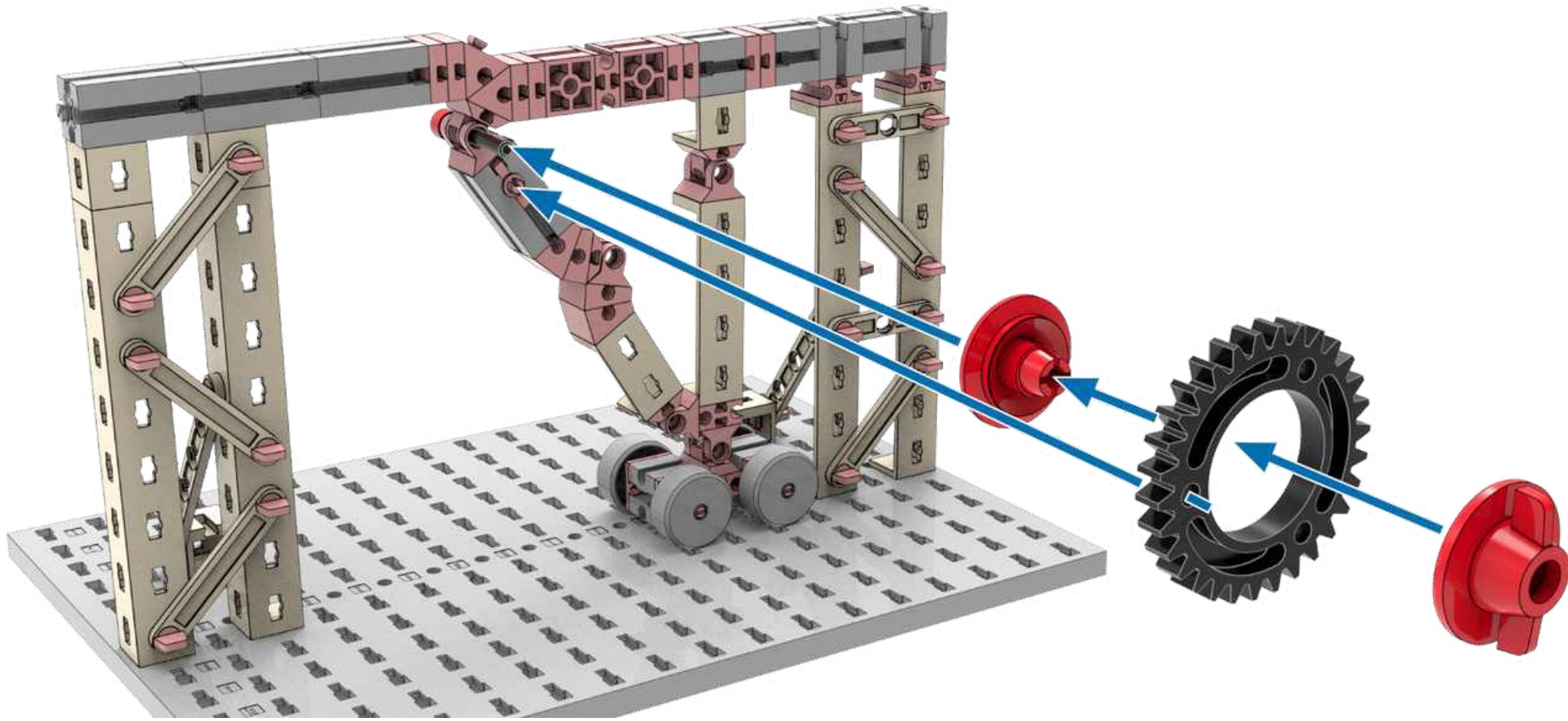
- 14**  1x  1x  30° 1x  15° 1x  1x  1x






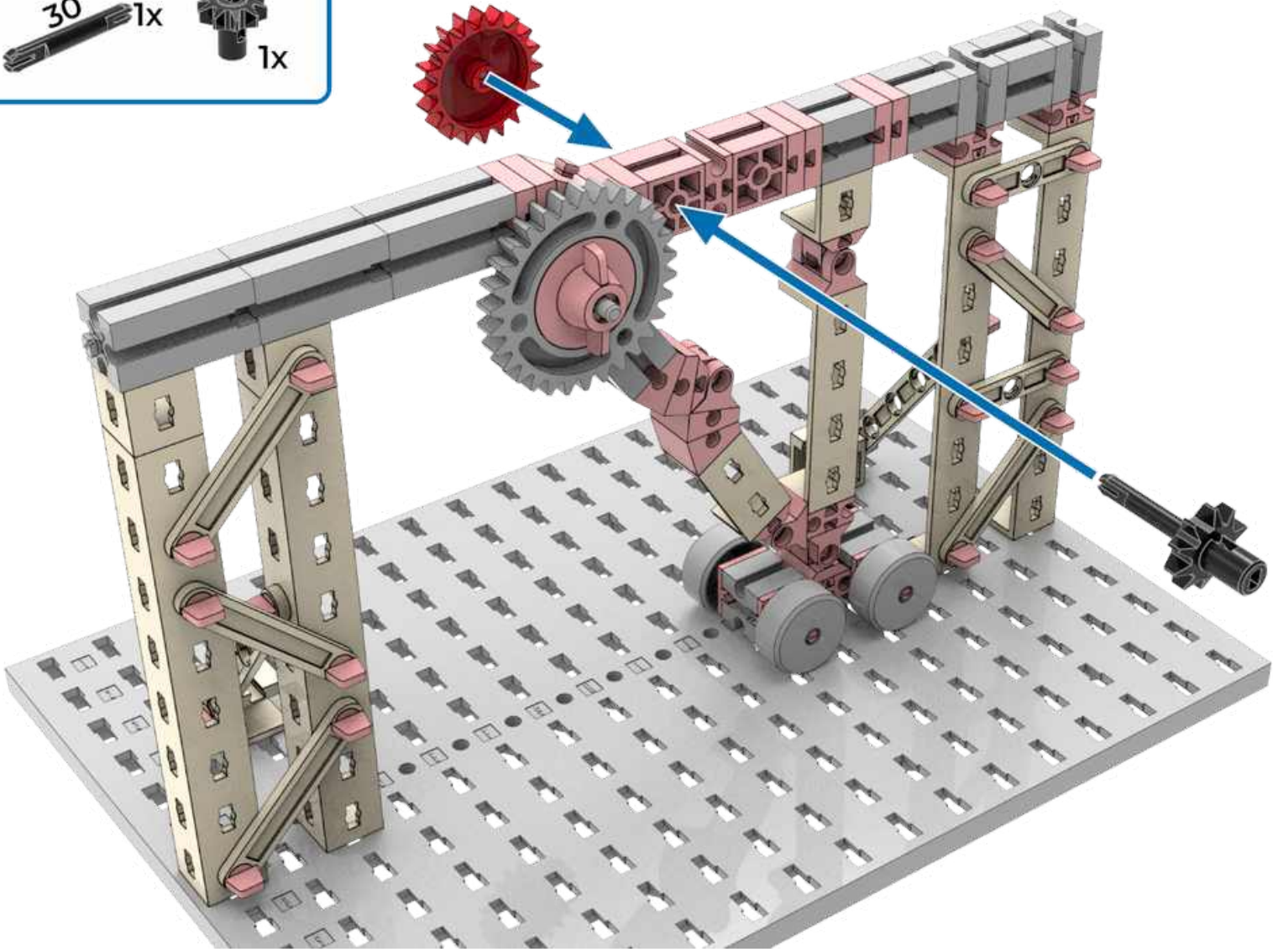
15



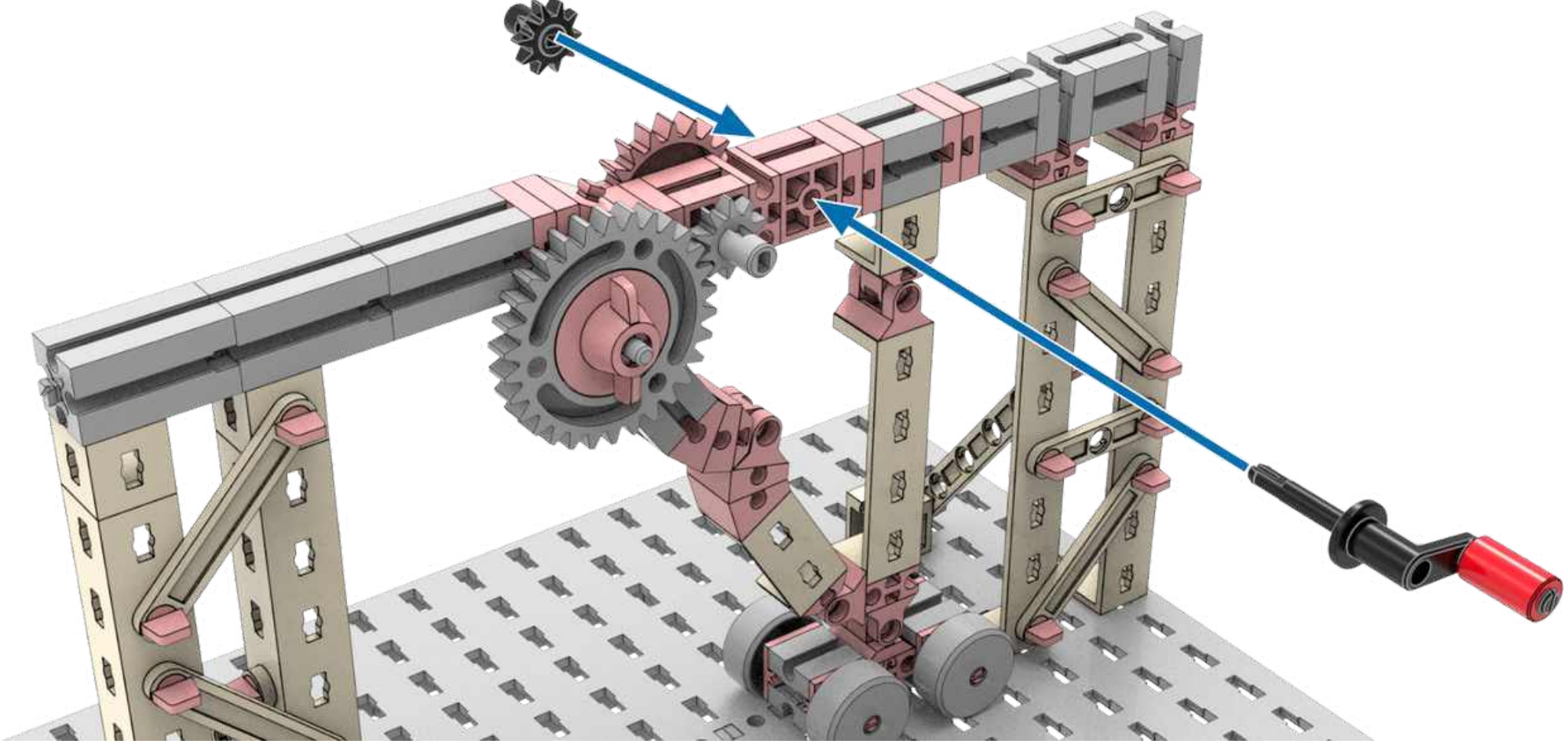
16 40 1x 1x 1x 1x



17  1x  1x  1x

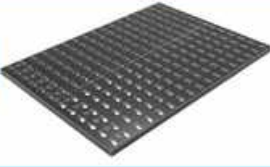




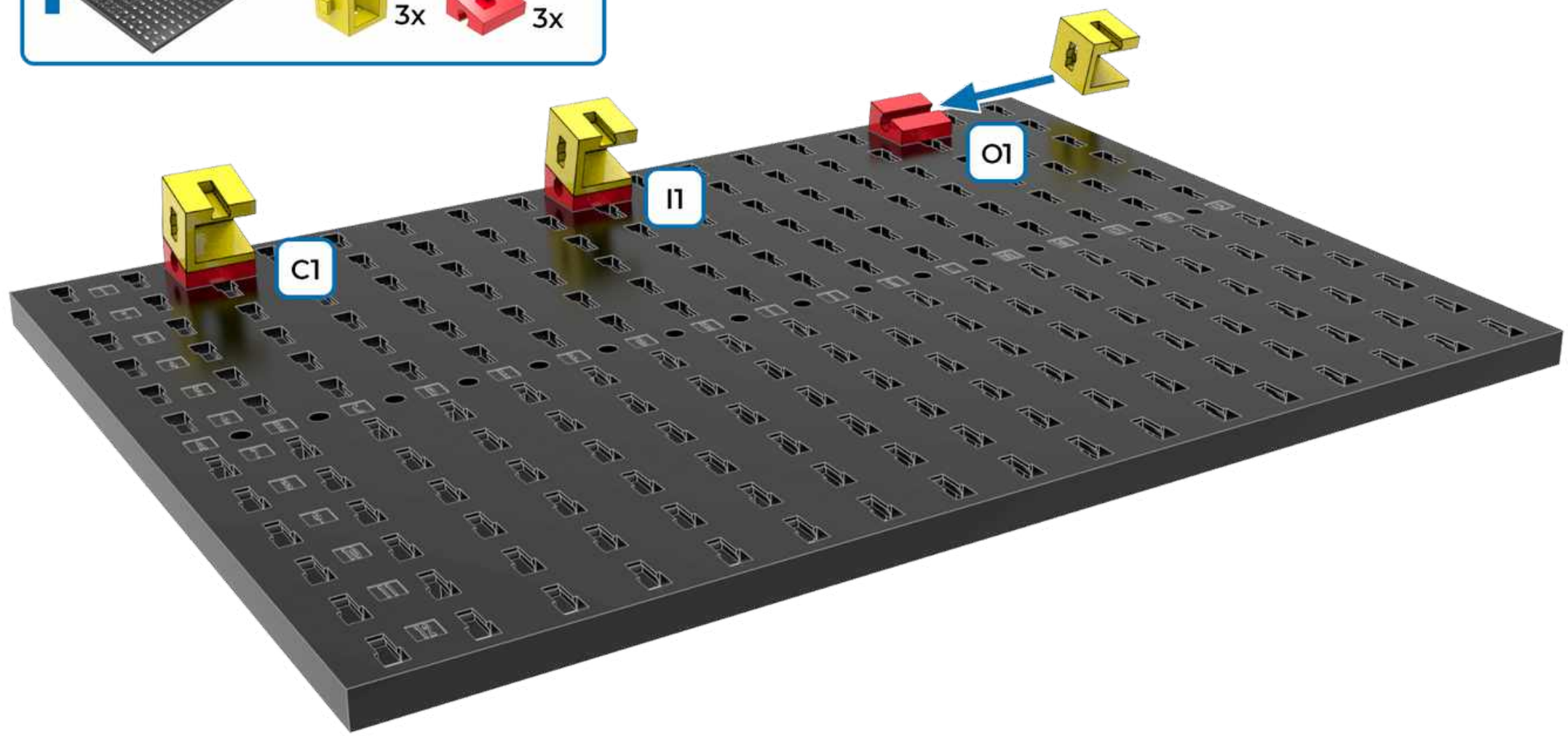
18  1x  1x  1x  1x

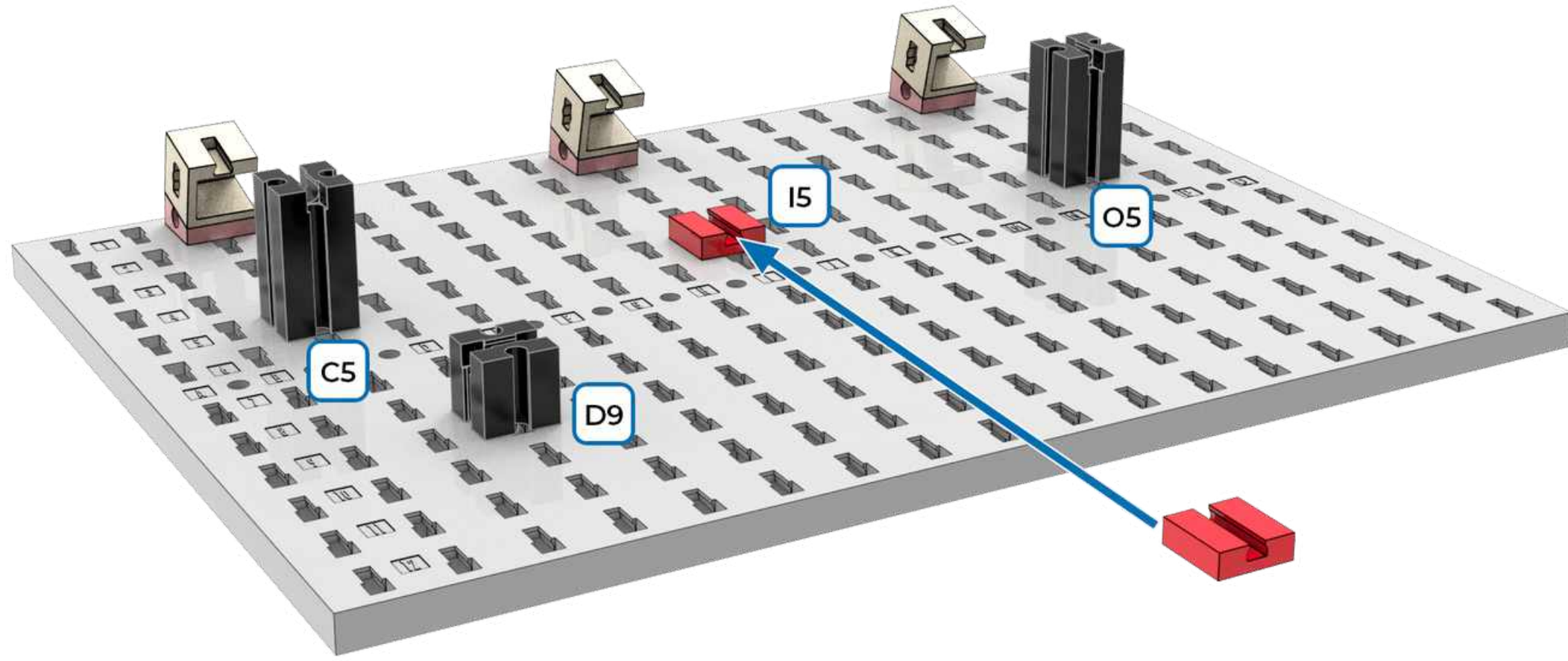
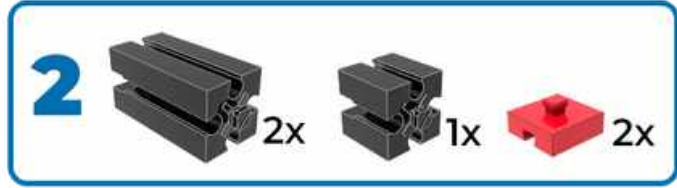



Scheibenwischer gegenläufig

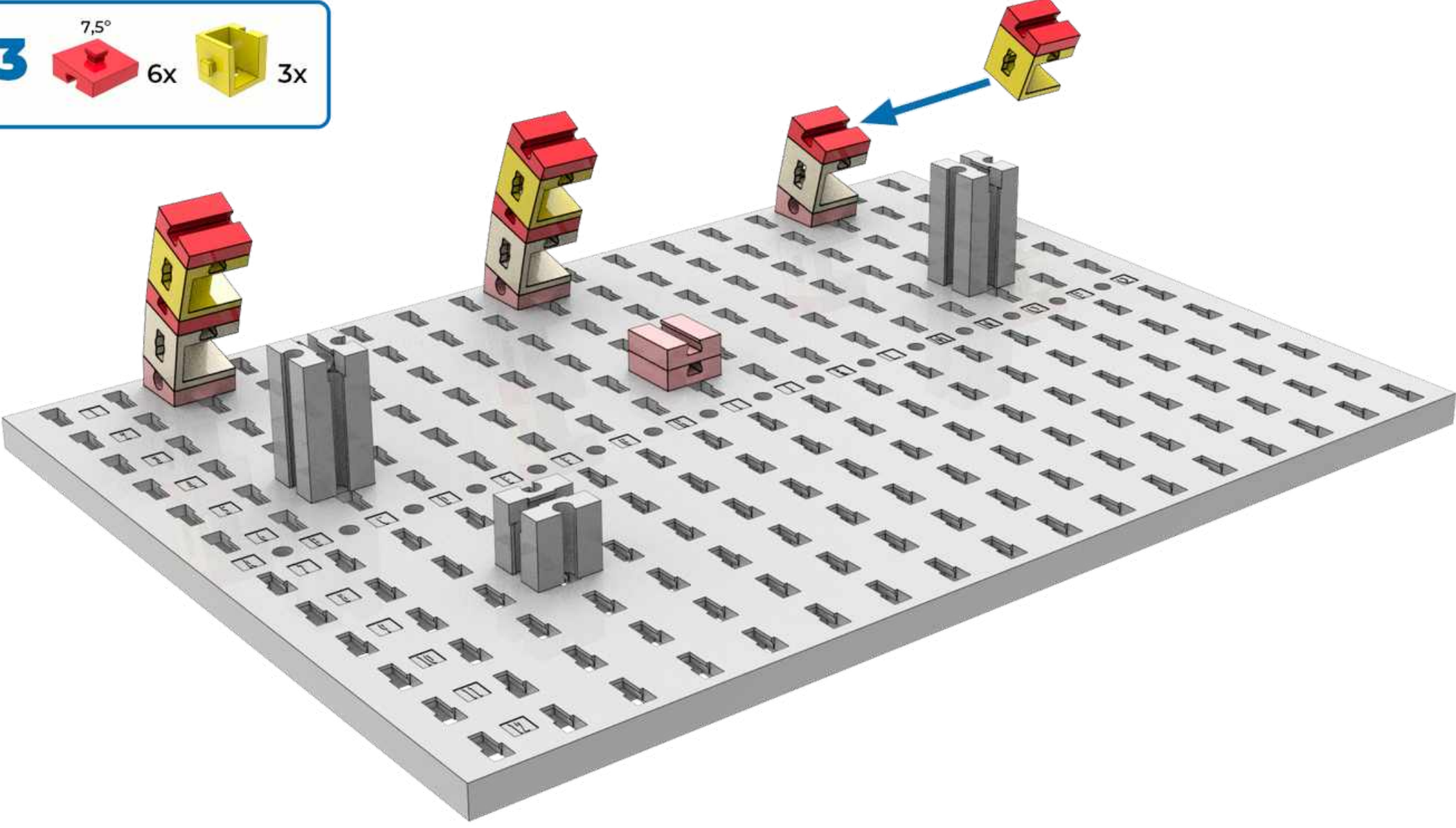




1 1x  3x  3x  3x

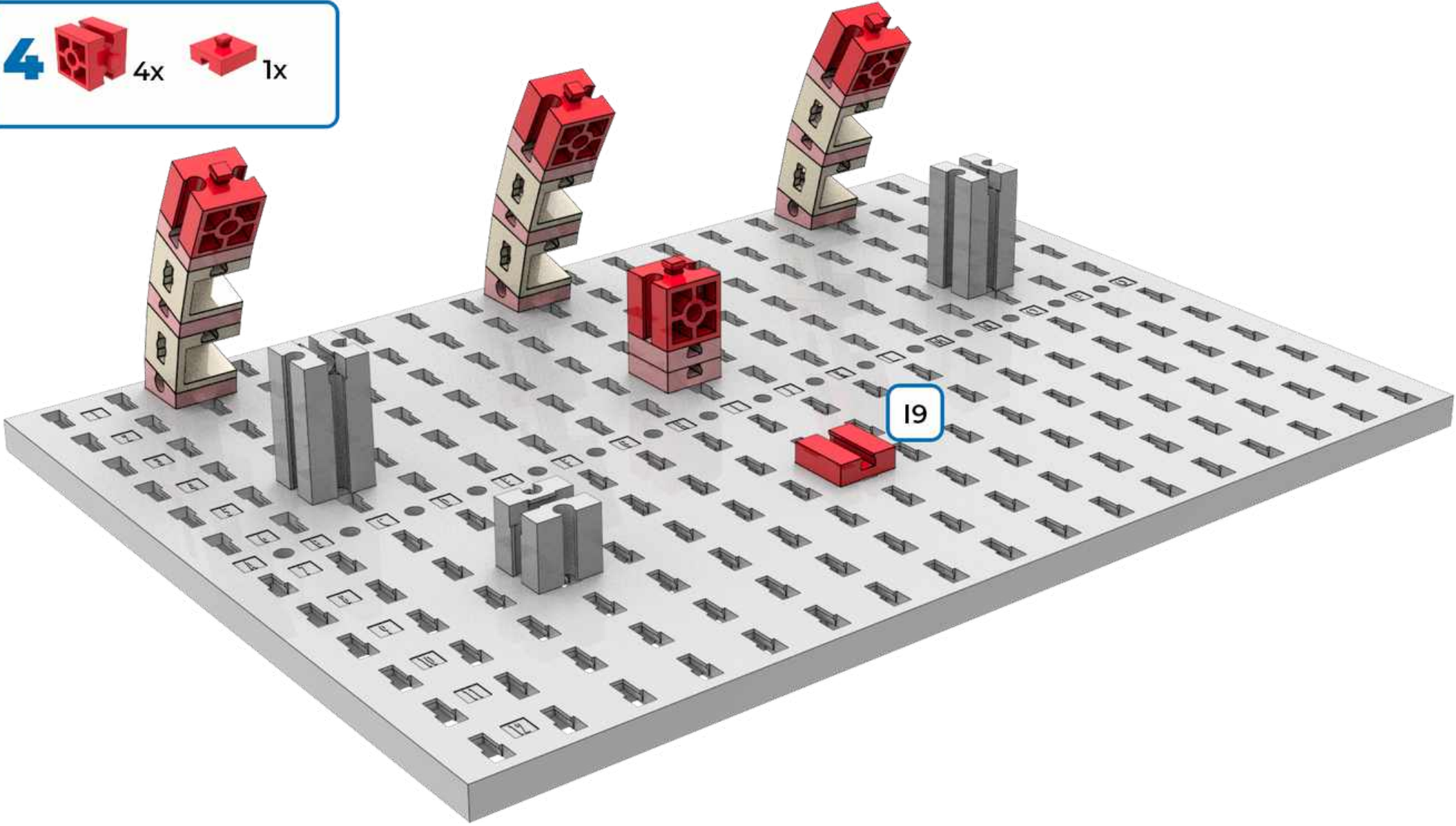


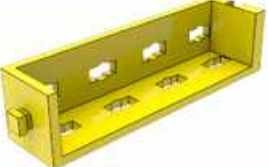



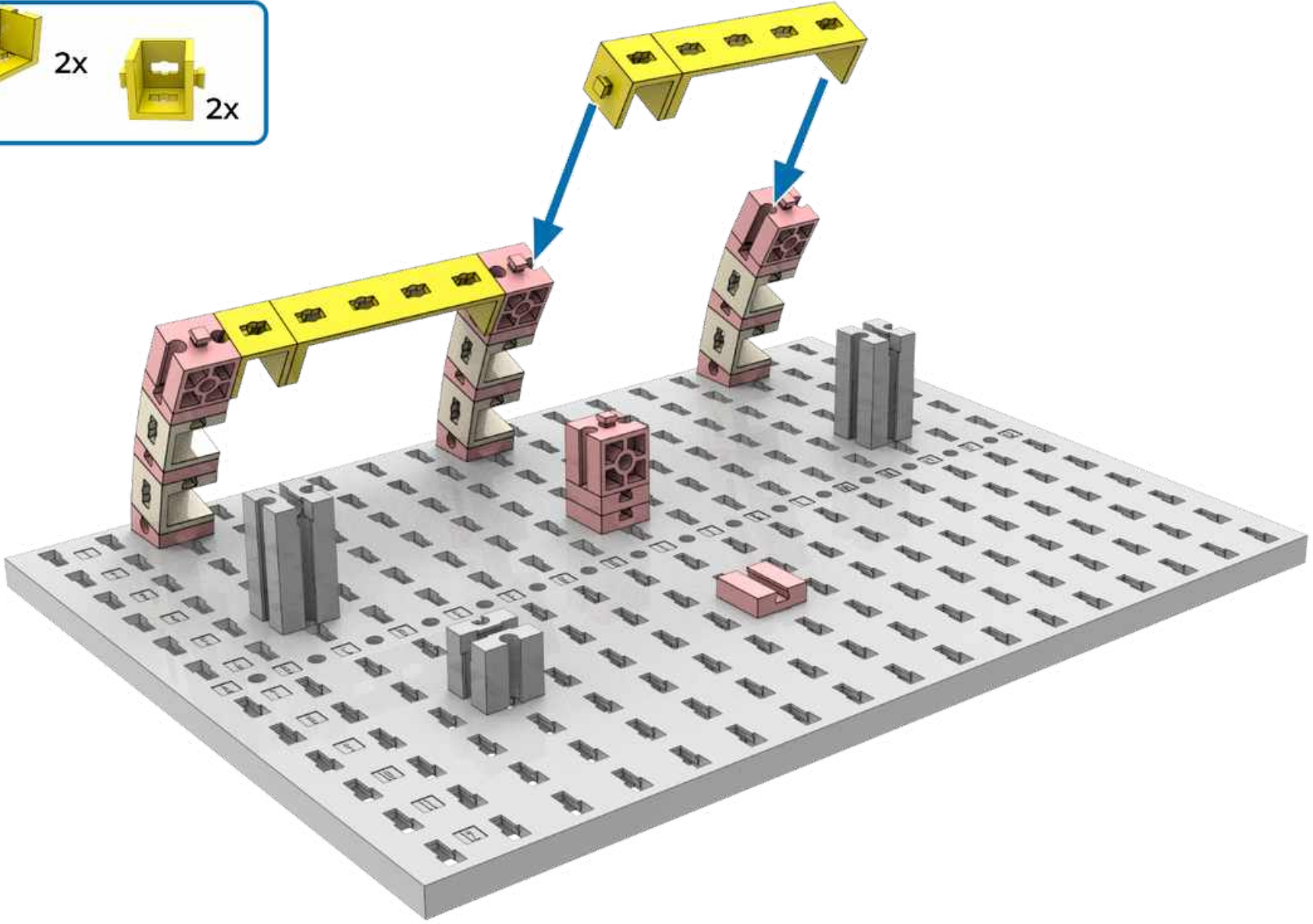
3 $7,5^\circ$ 6x  3x






4  4x  1x

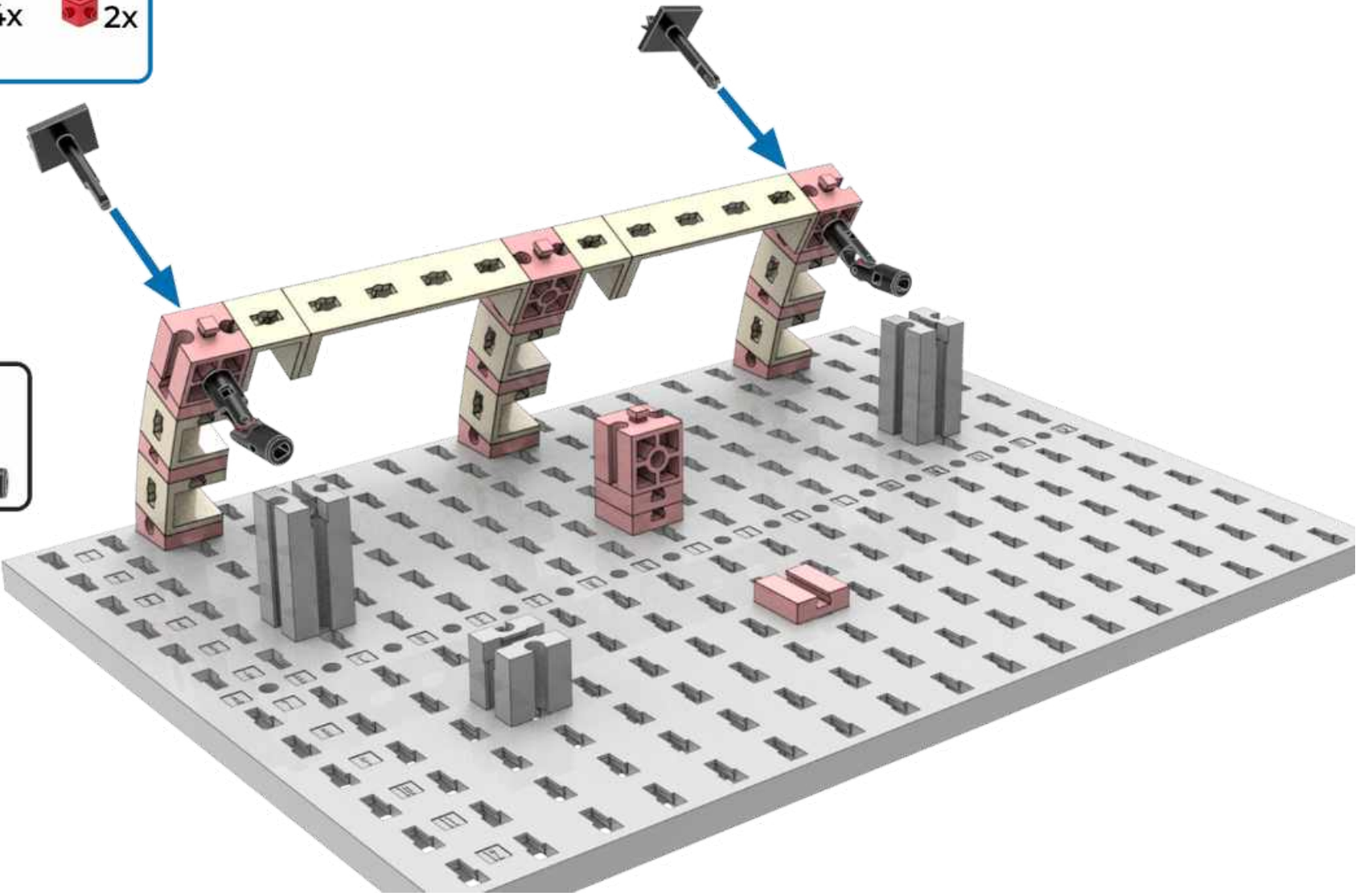


5  2x  2x

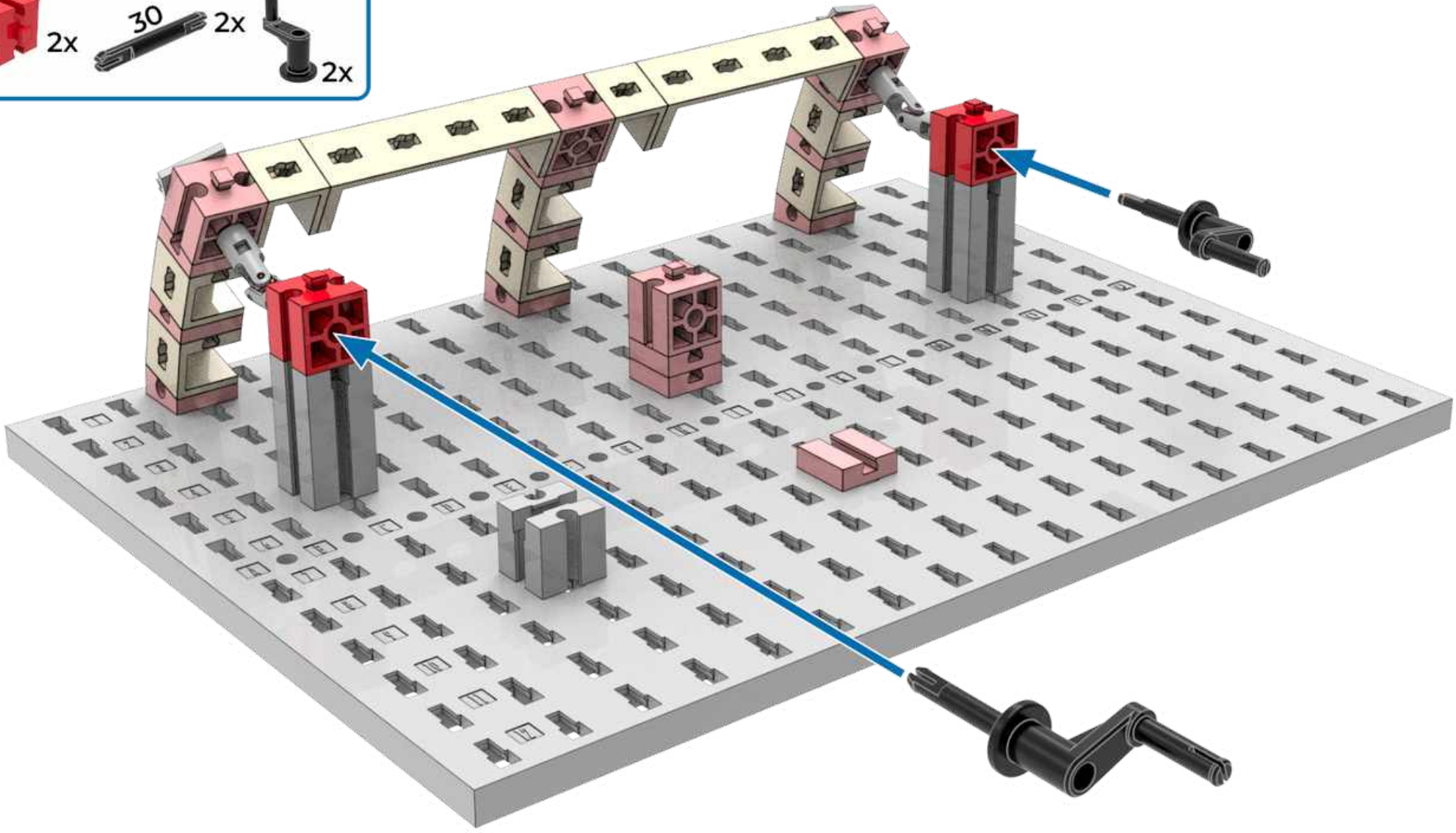


6  2x  4x  2x

  2x 



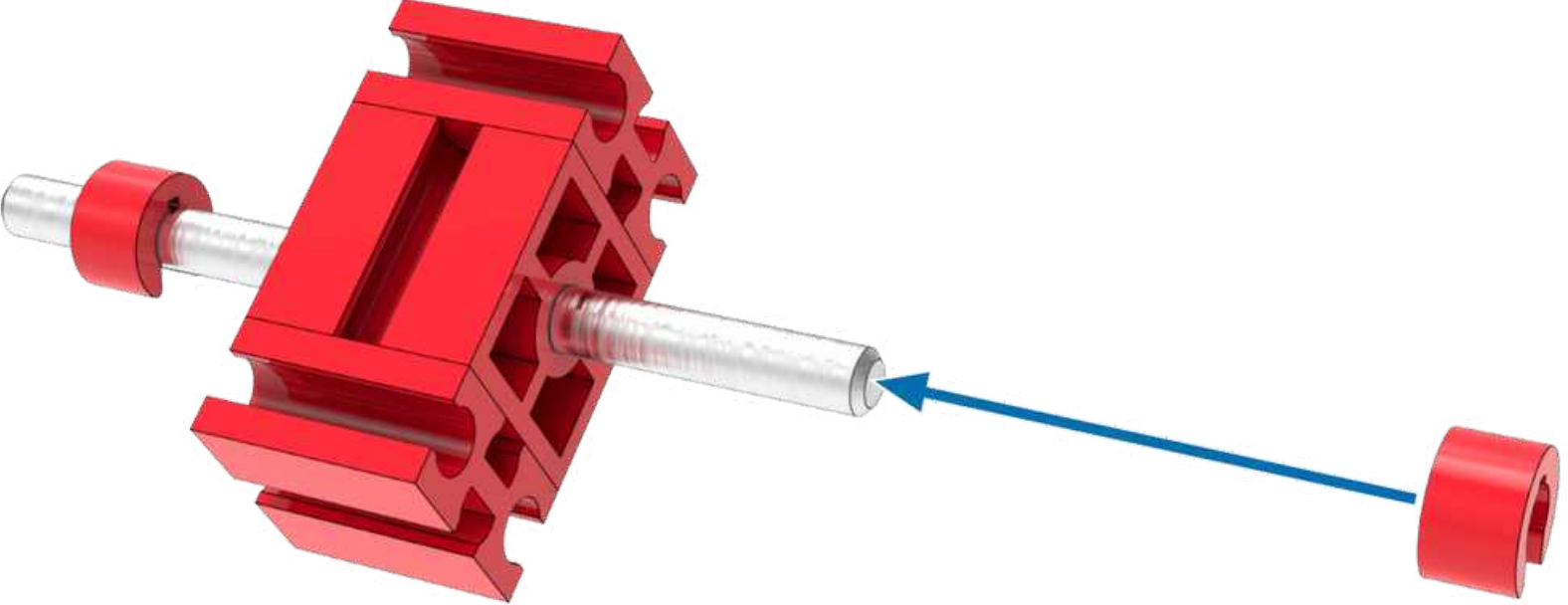
7  2x  2x  2x



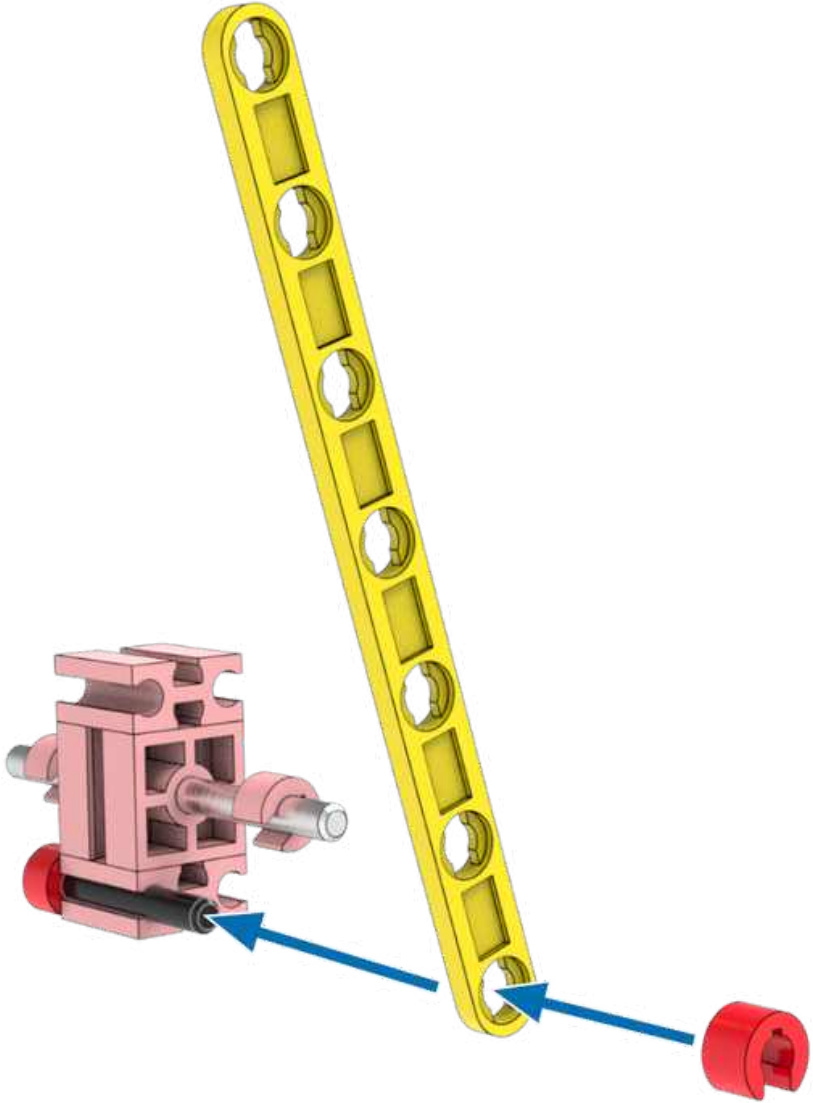
8

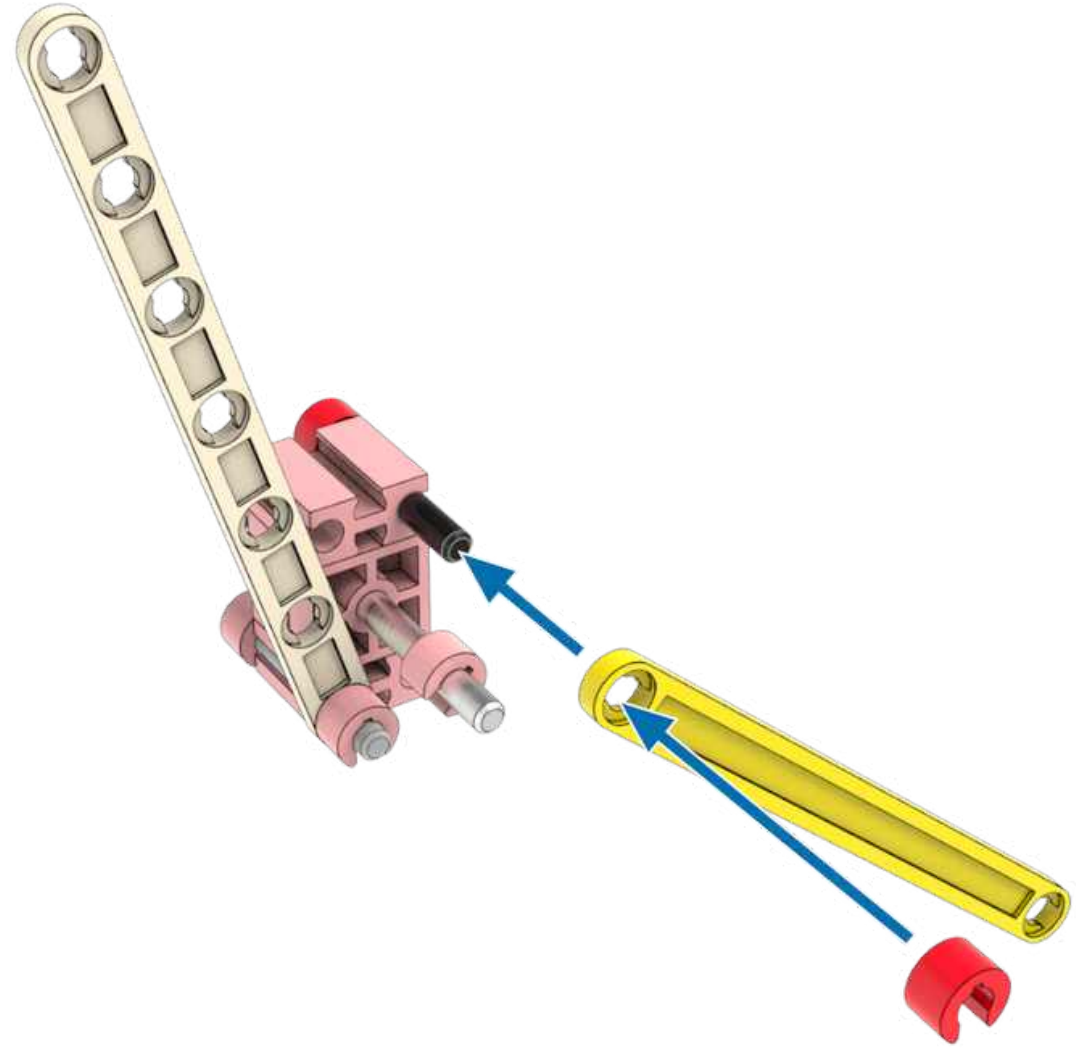
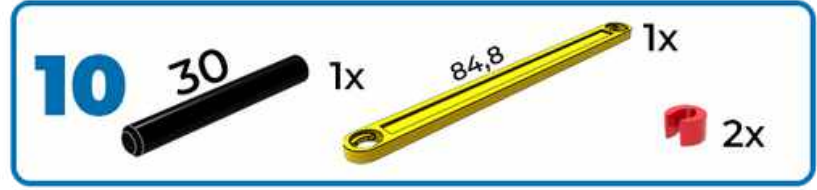




1x 60 1x 2x 2x

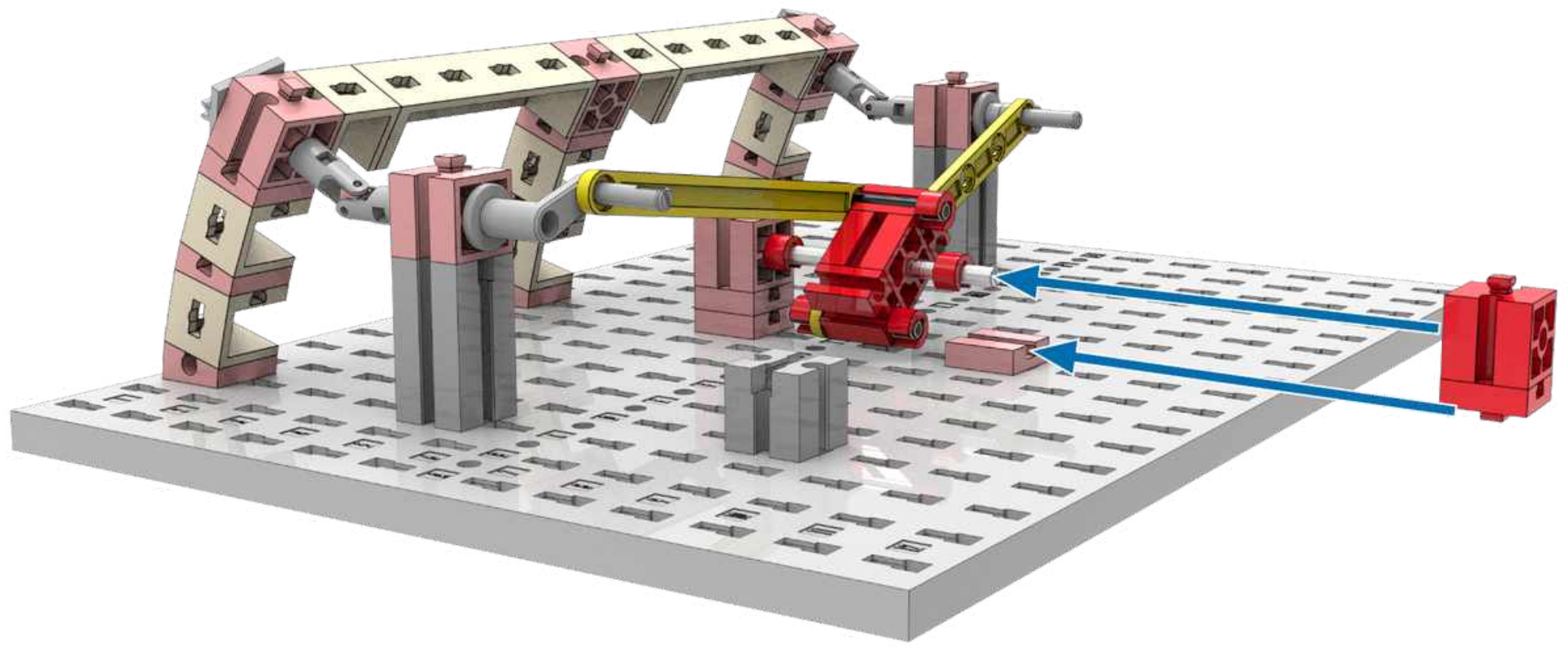





9 30 1x 90 1x 2x

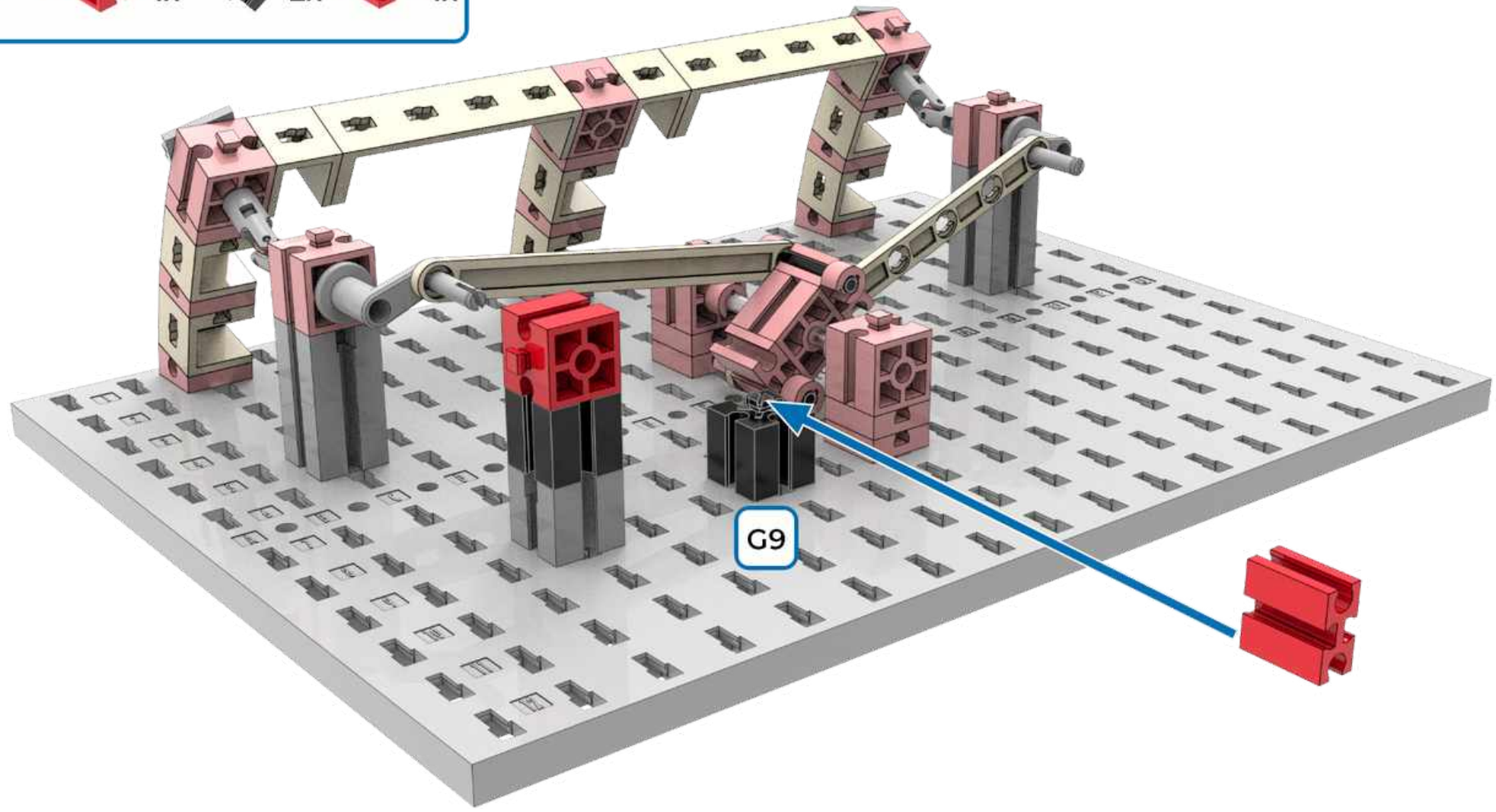




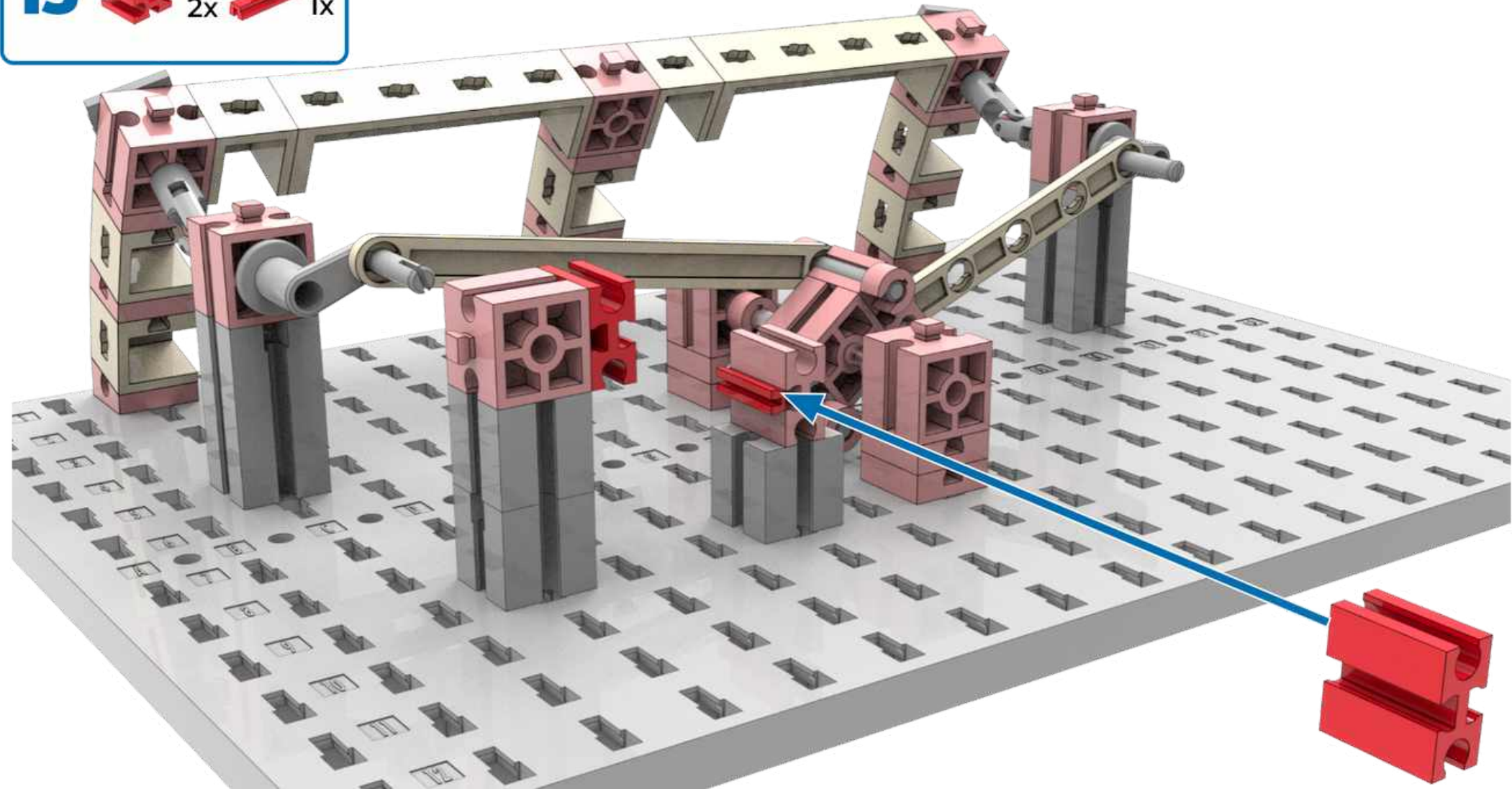
11  1x  1x





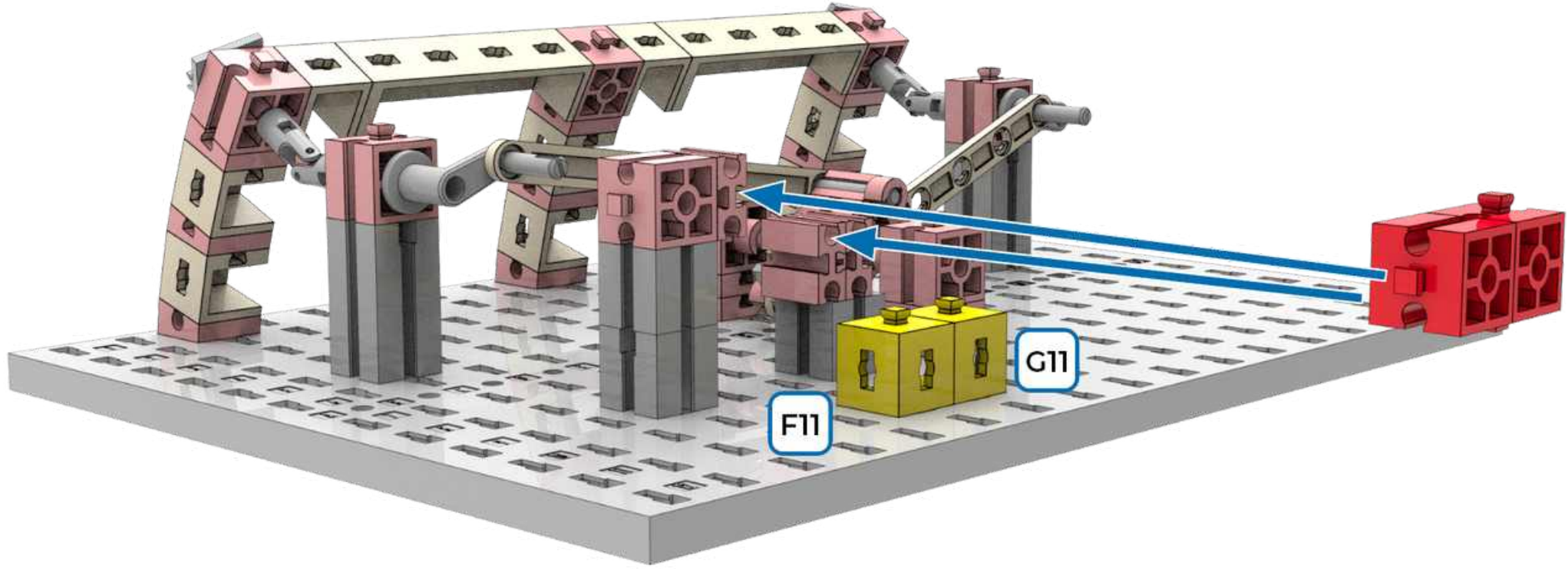
12  1x  2x  1x







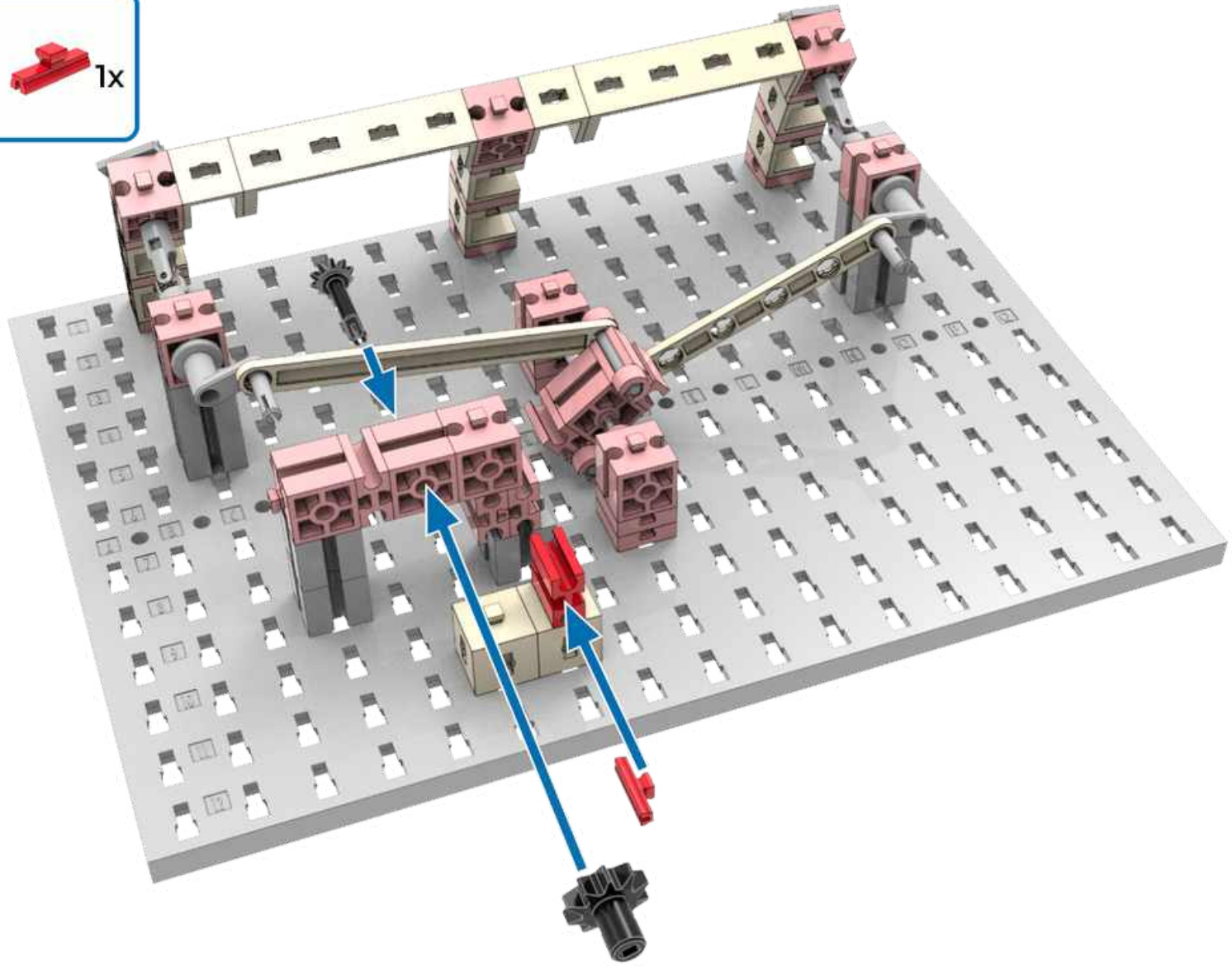
13  2x  1x





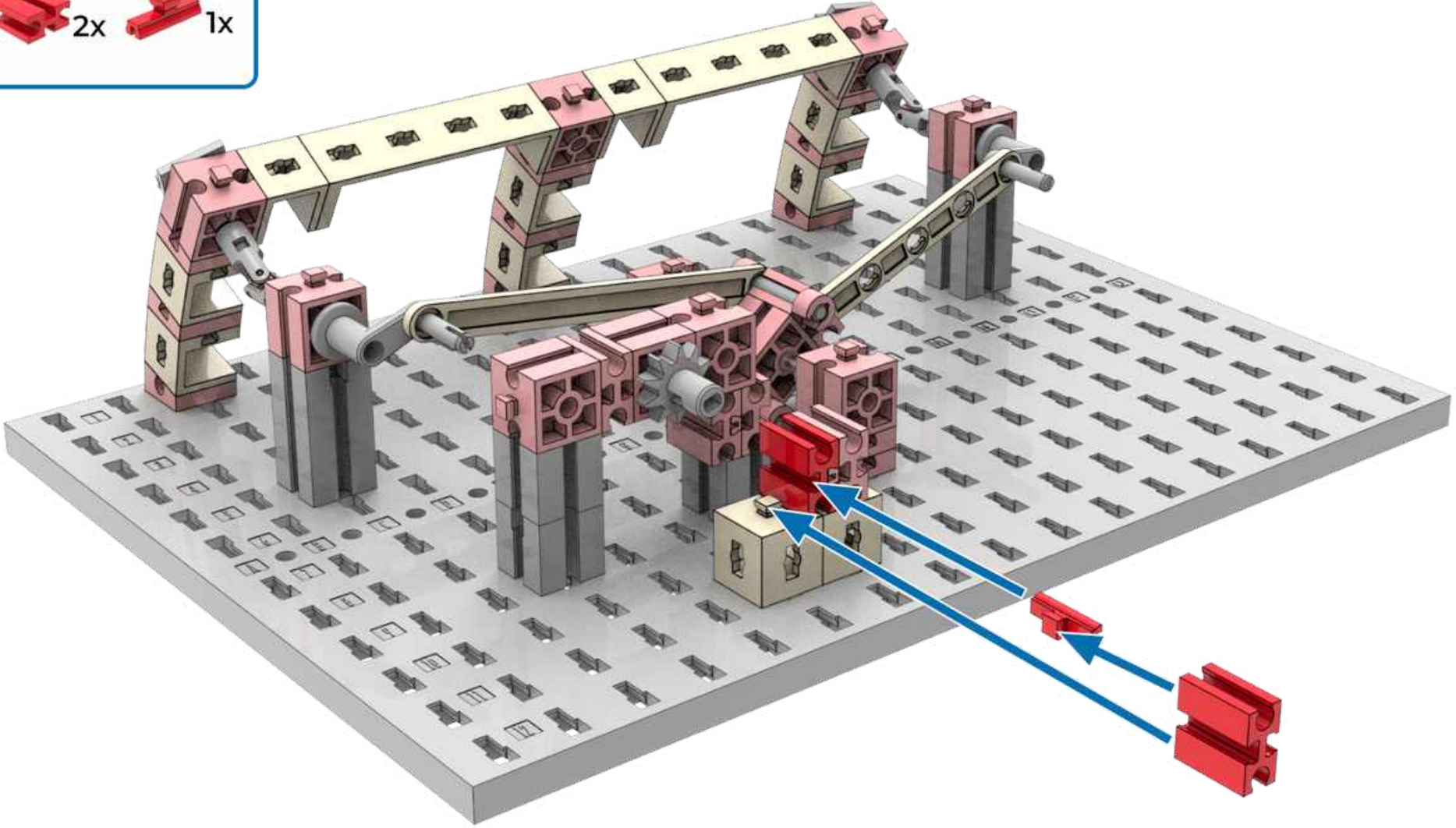
14  2x  2x





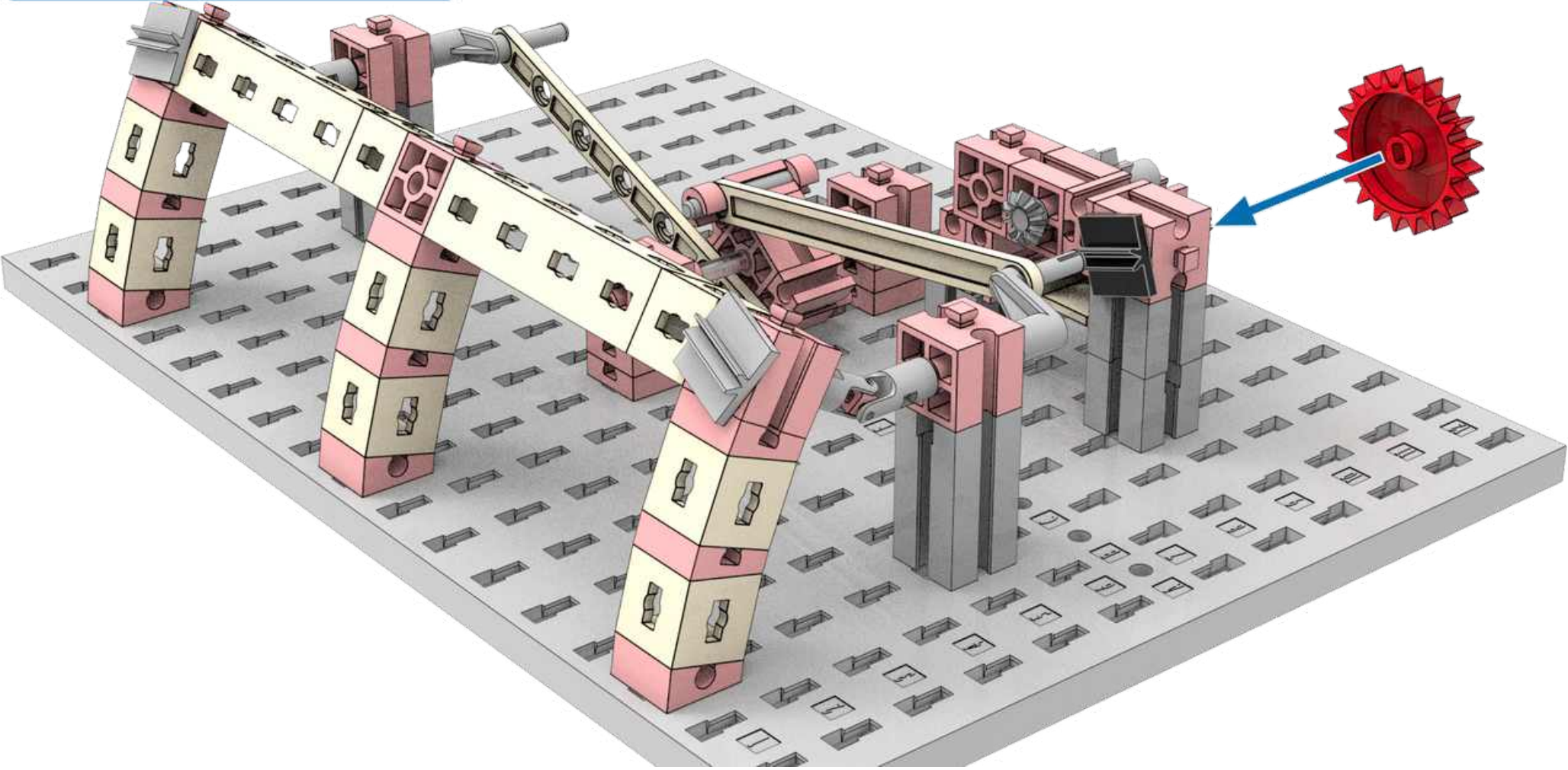
15  1x  1x  1x  1x





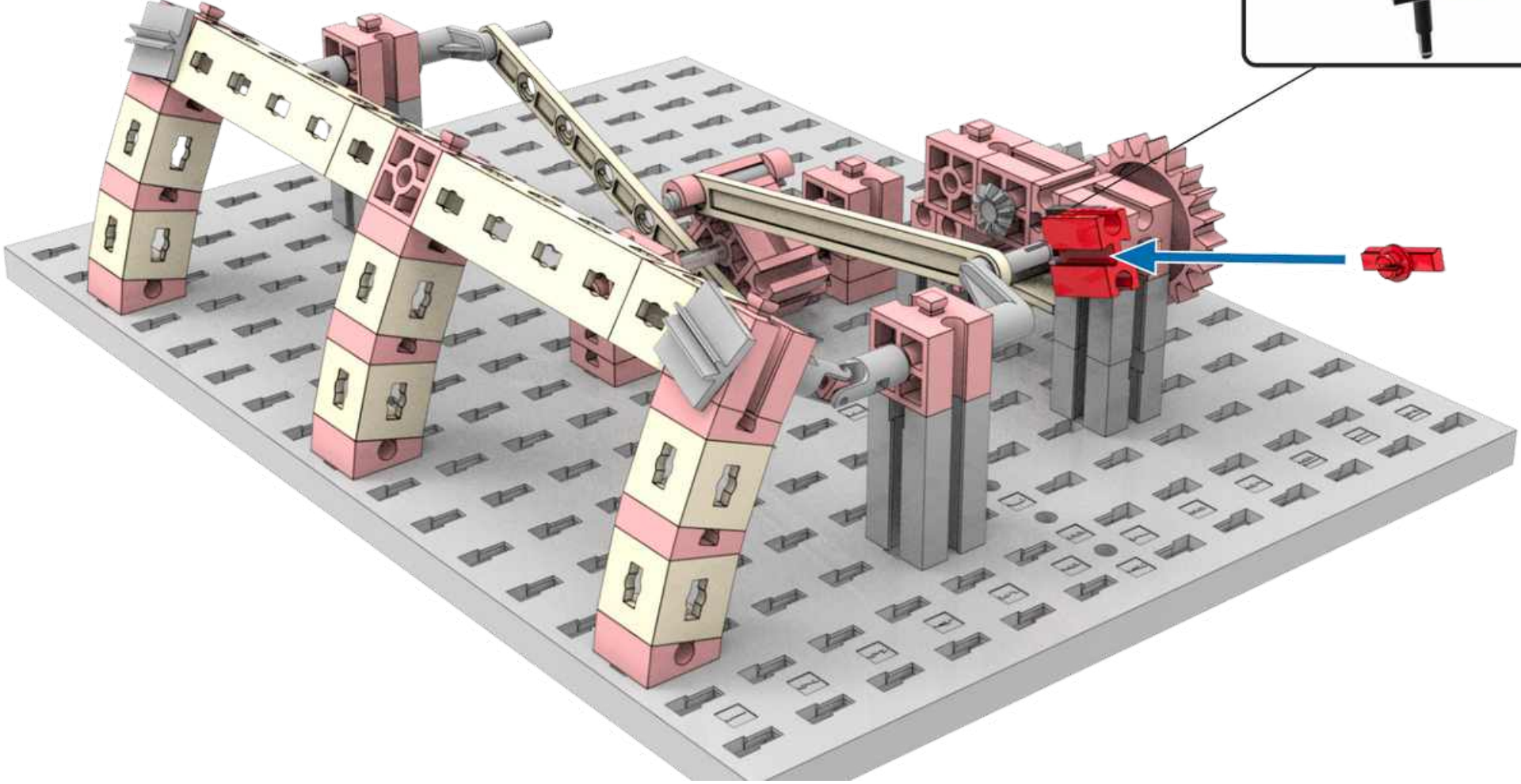
16  2x  1x



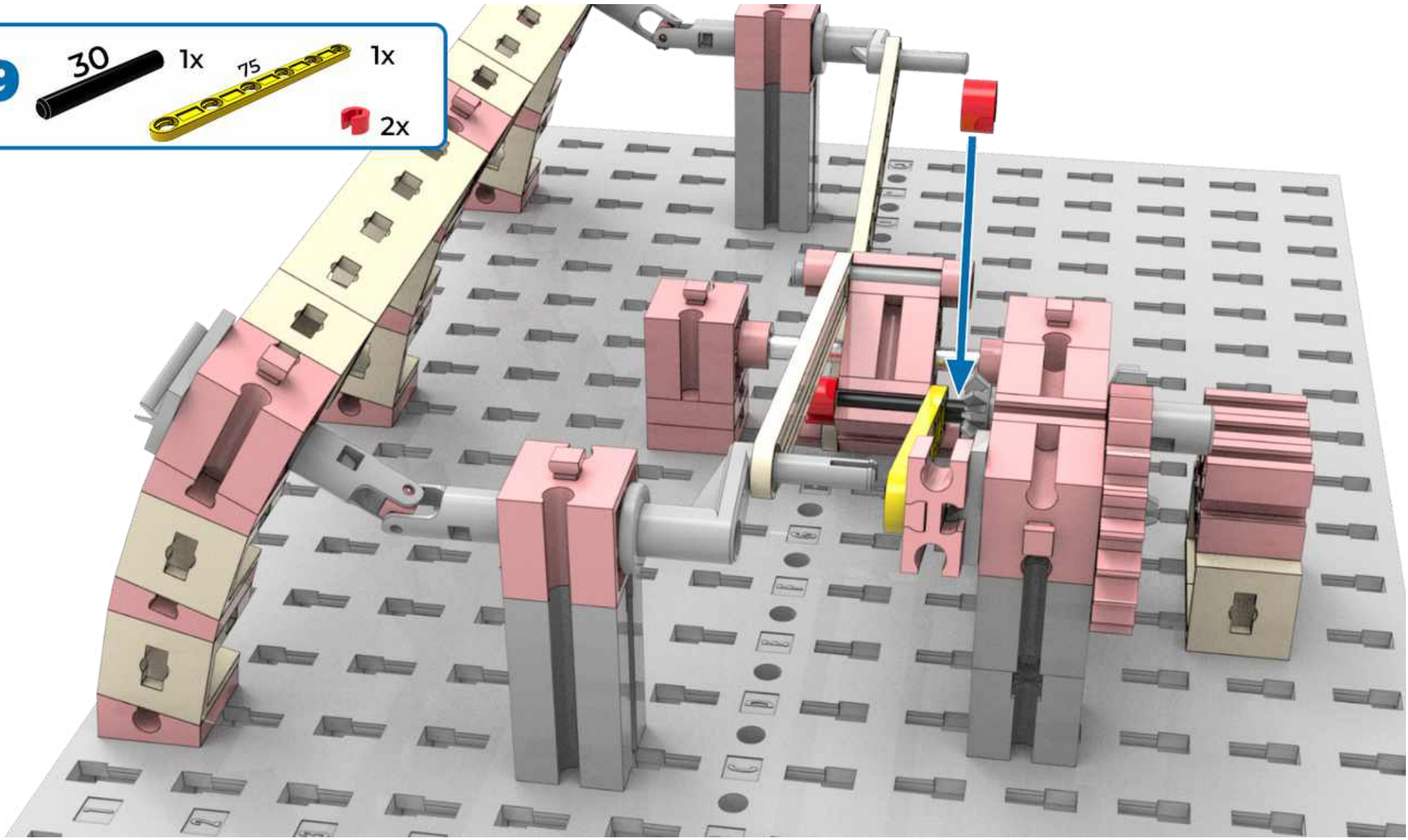
17  1x  1x



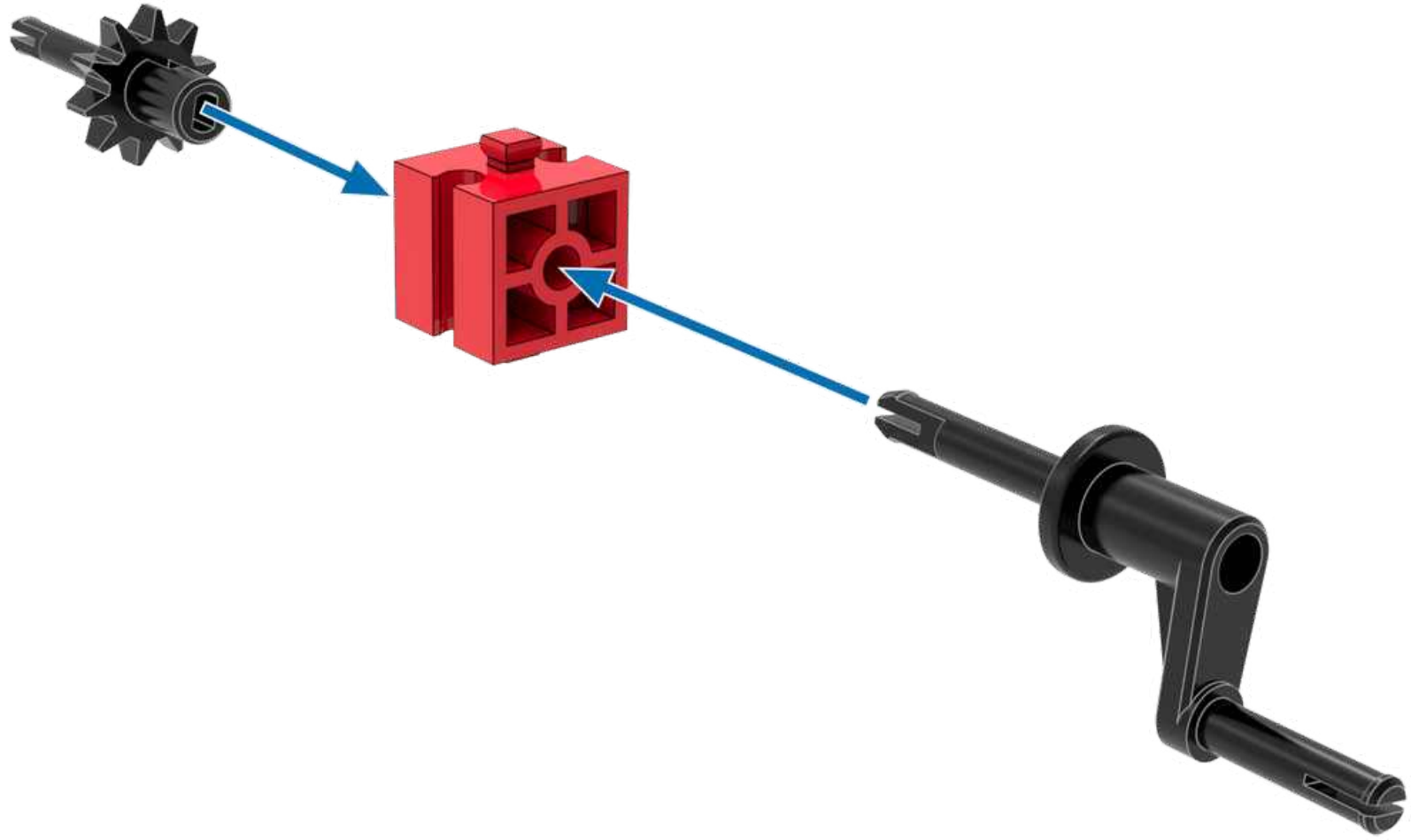
18  1x  1x



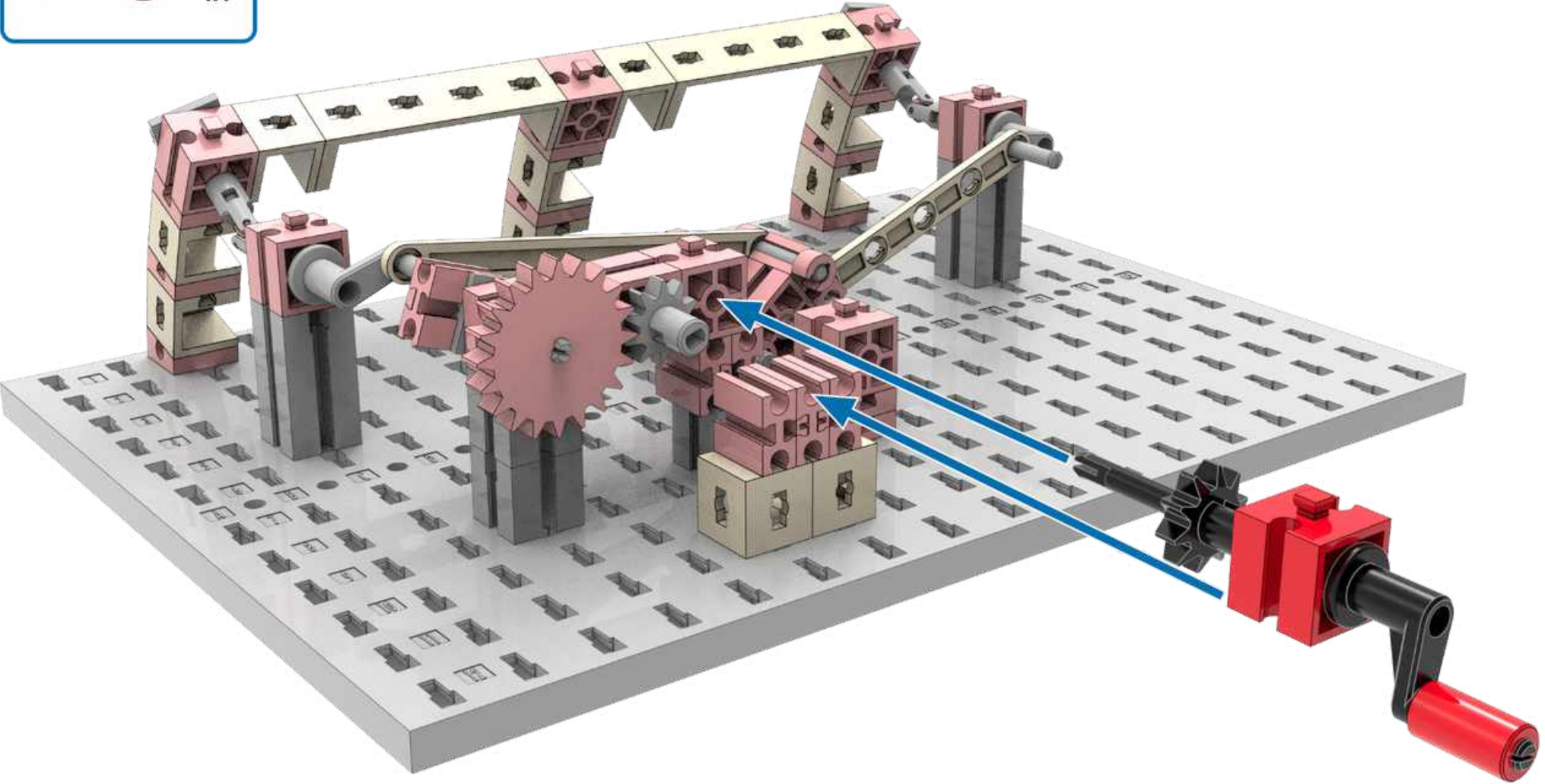
19 30 1x 75 1x
2x








20  1x  2x  1x  1x



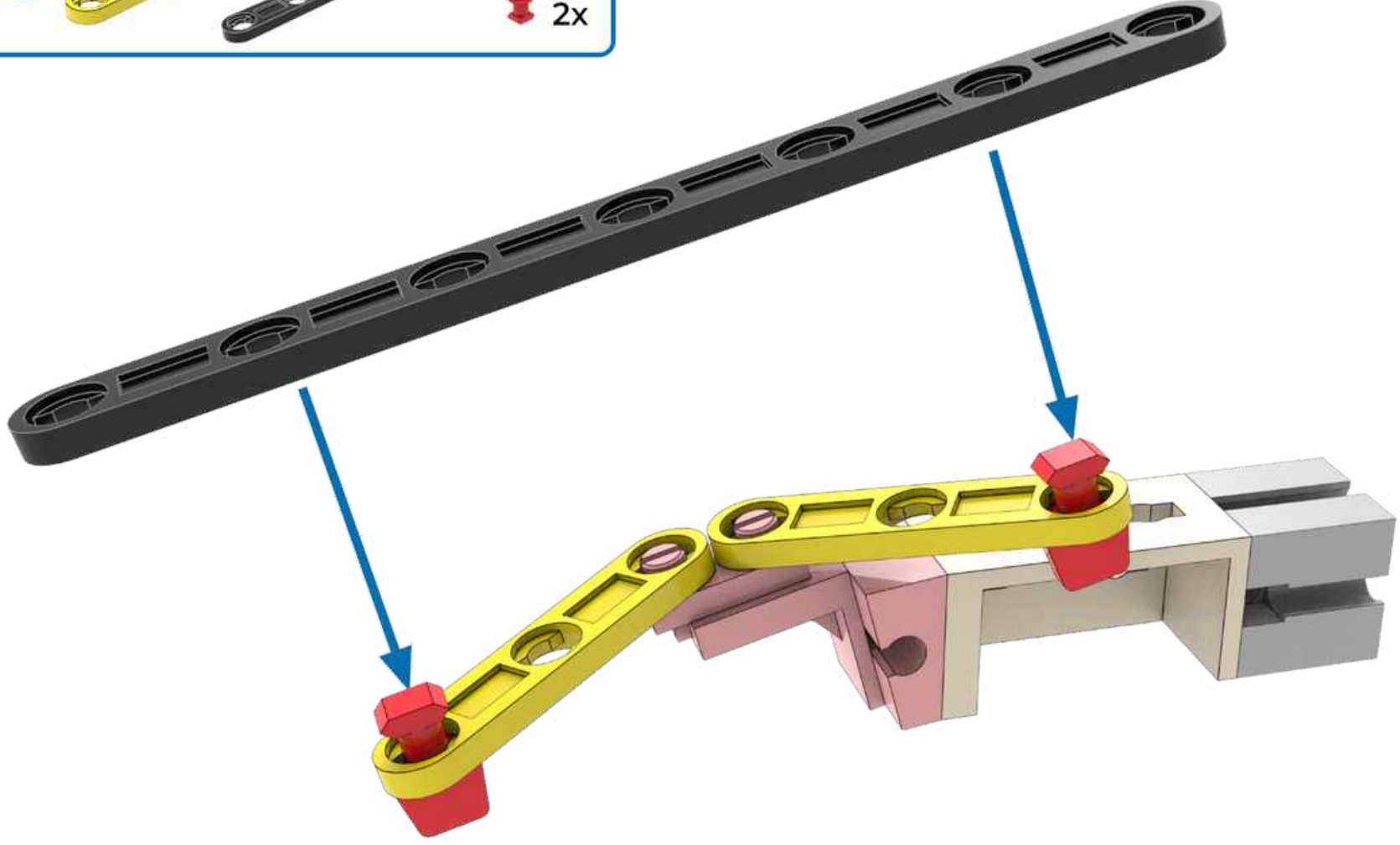
21  1x



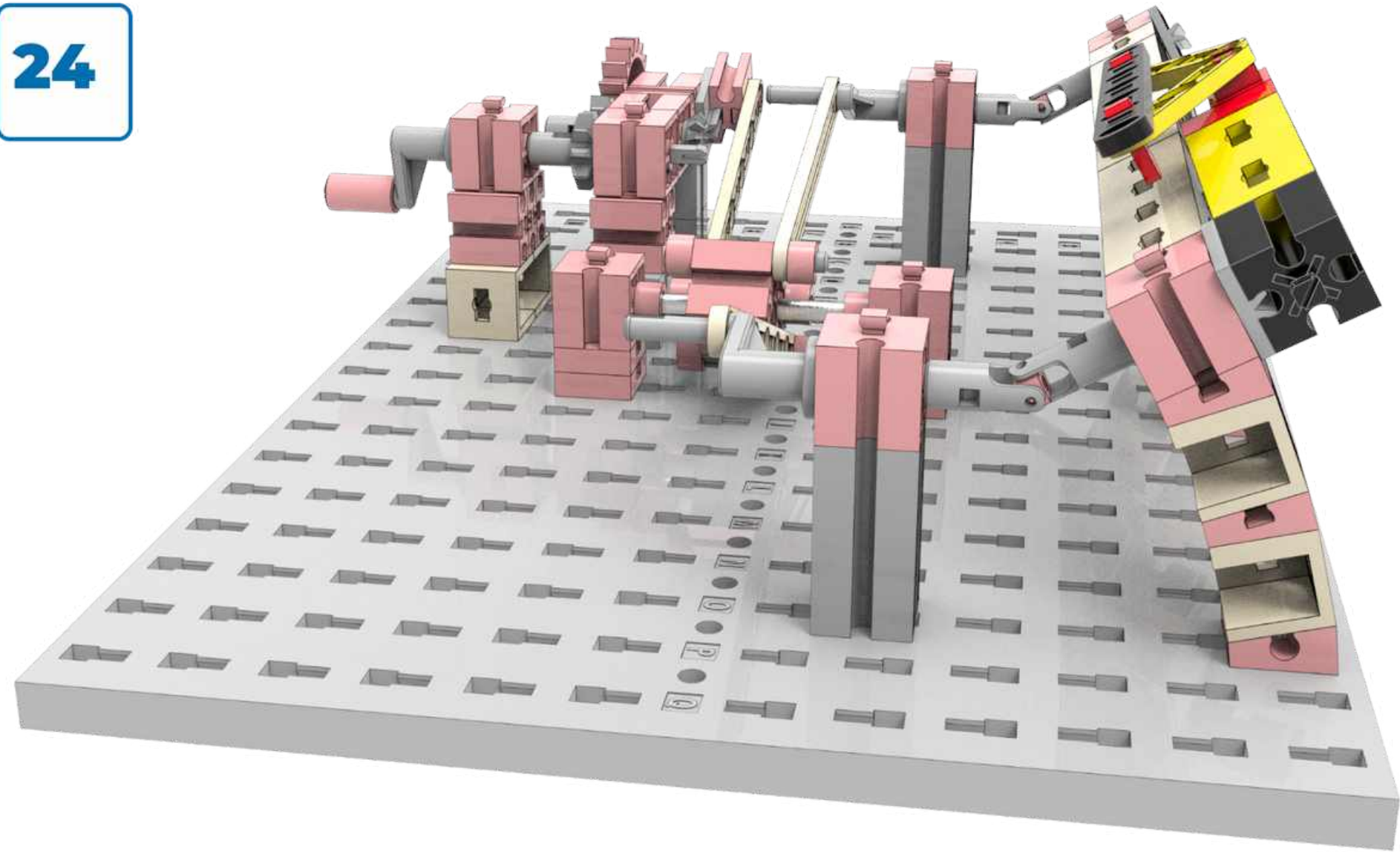
22  1x  1x  1x  15° 1x  1x








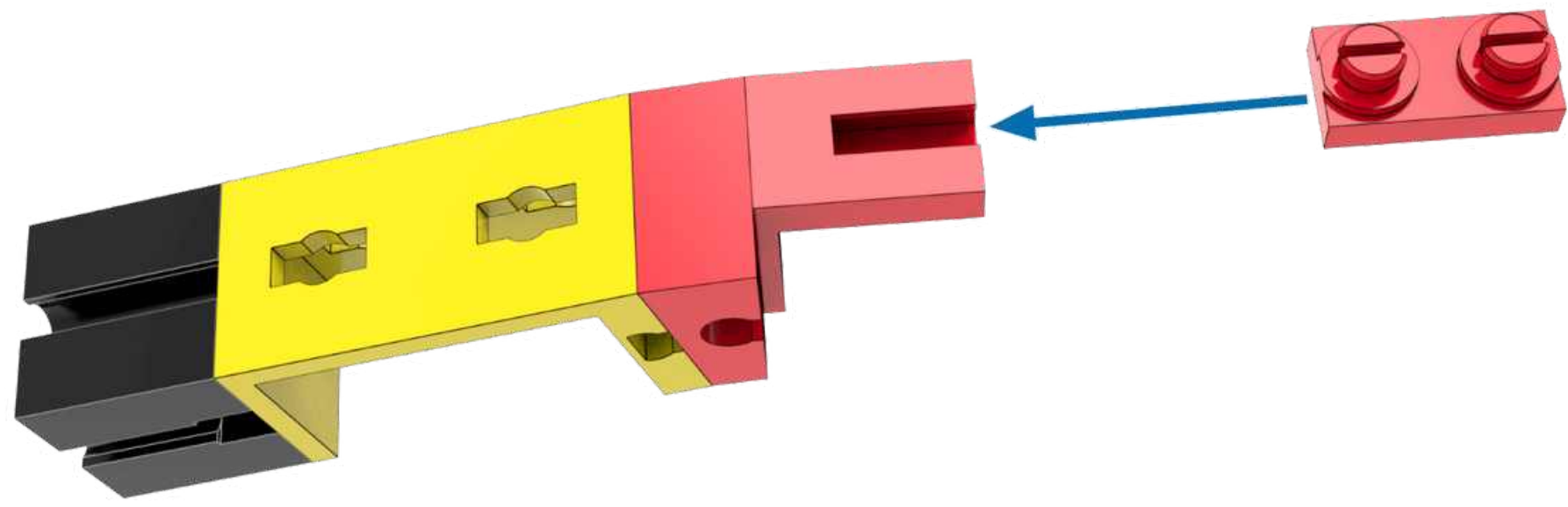
23 30 2x 90 1x 4 2x



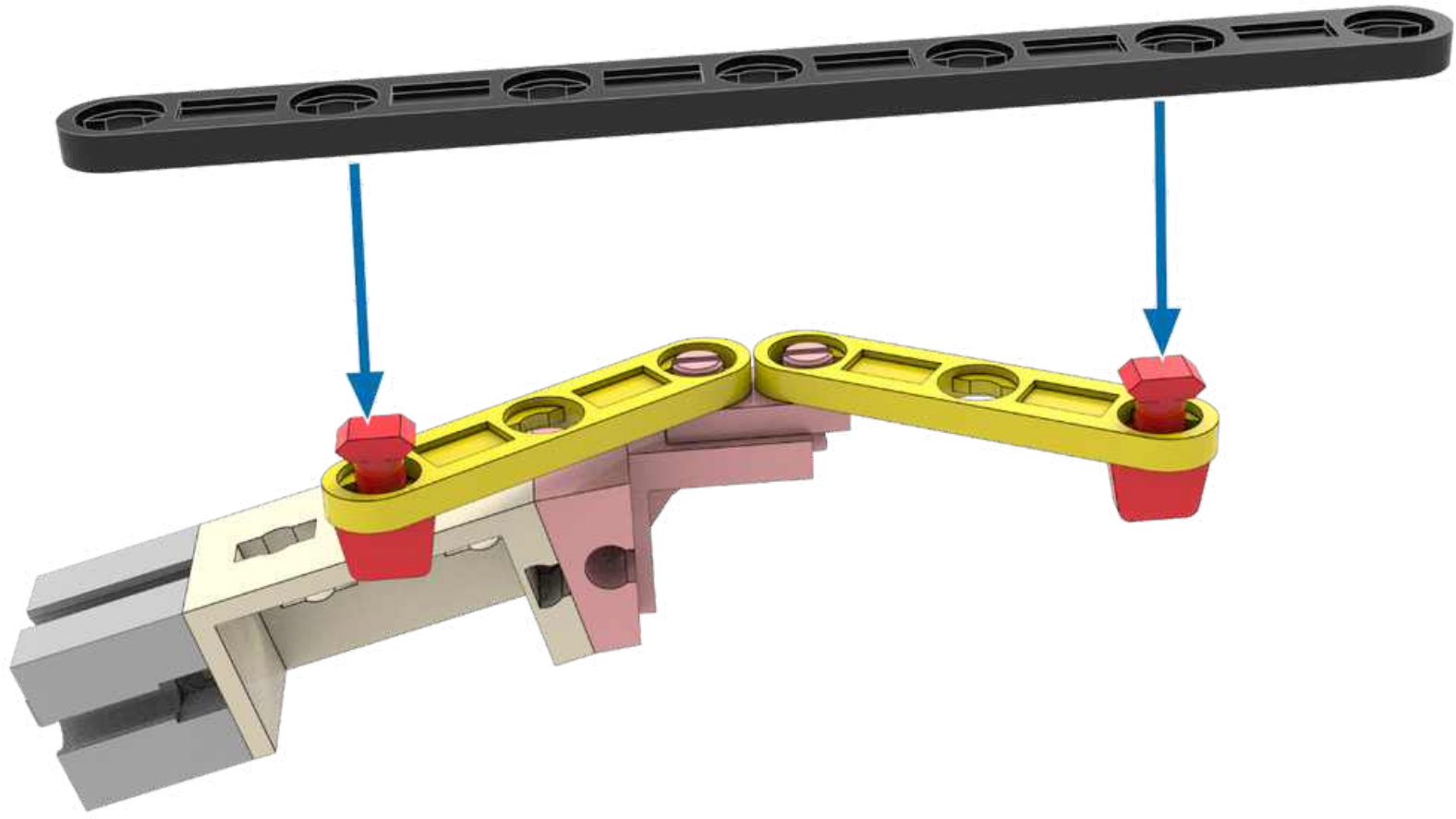
24



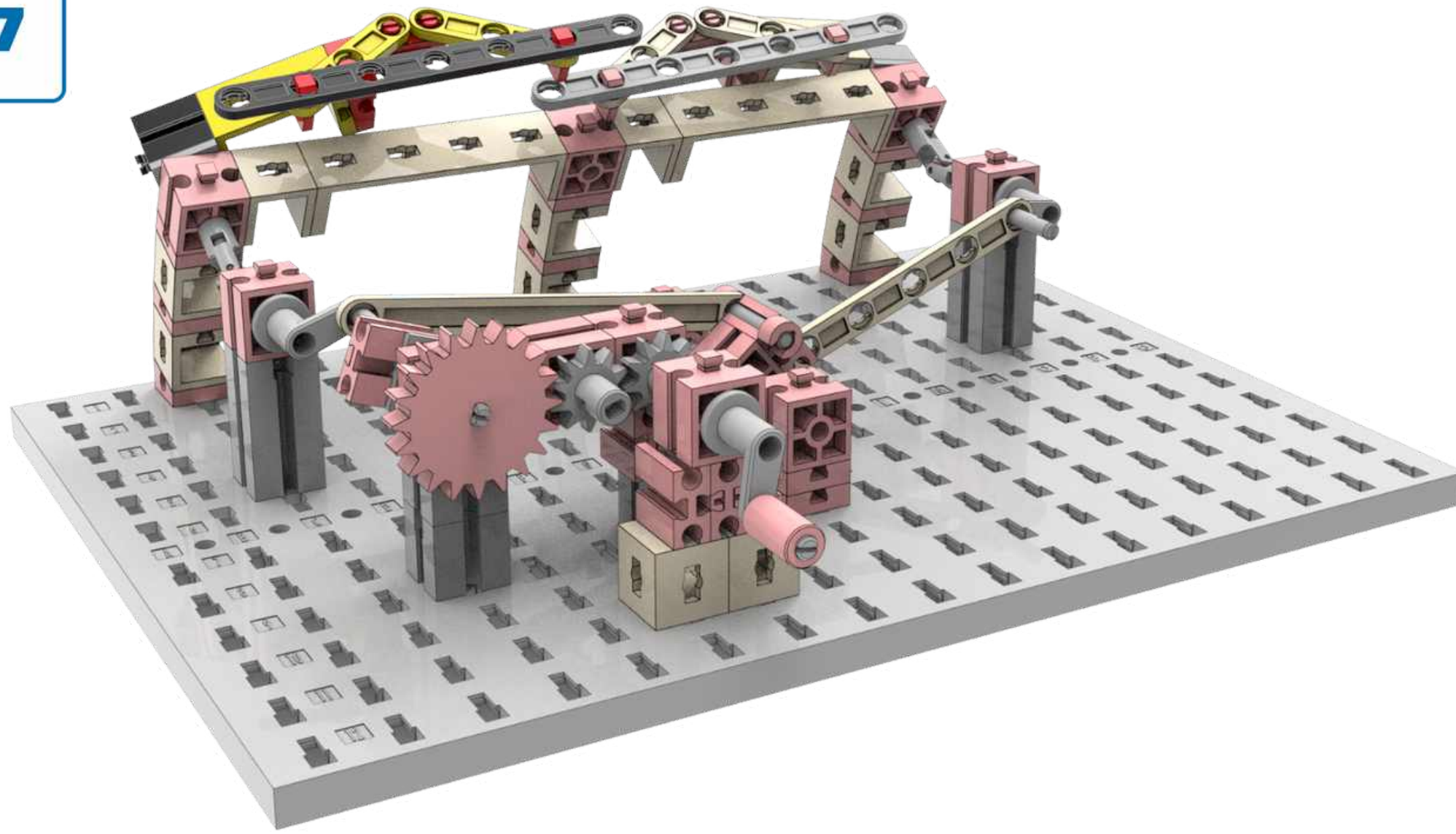
25  1x  1x  1x  1x  1x



26 30 2x 90 1x ⁴ 2x







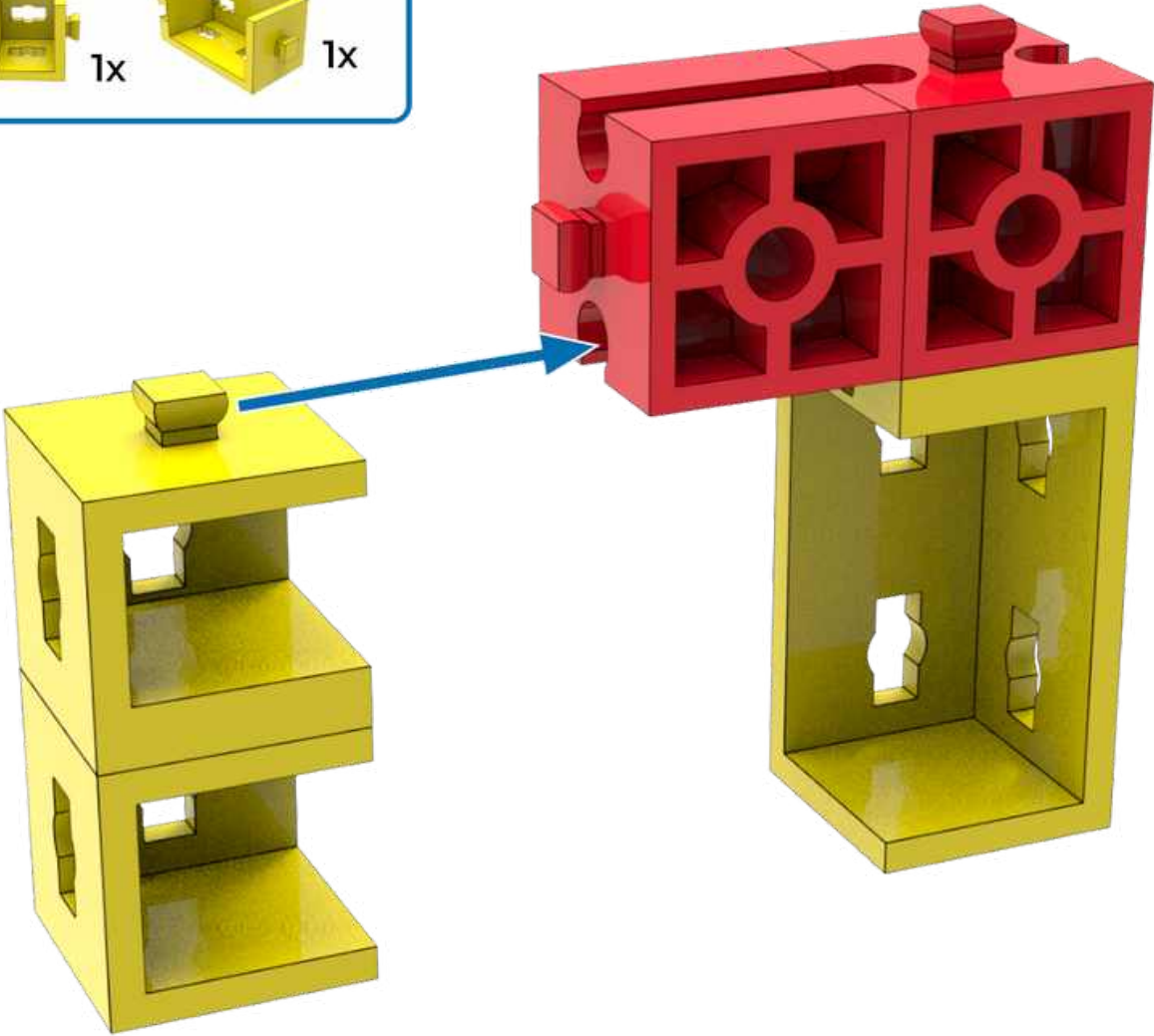
27

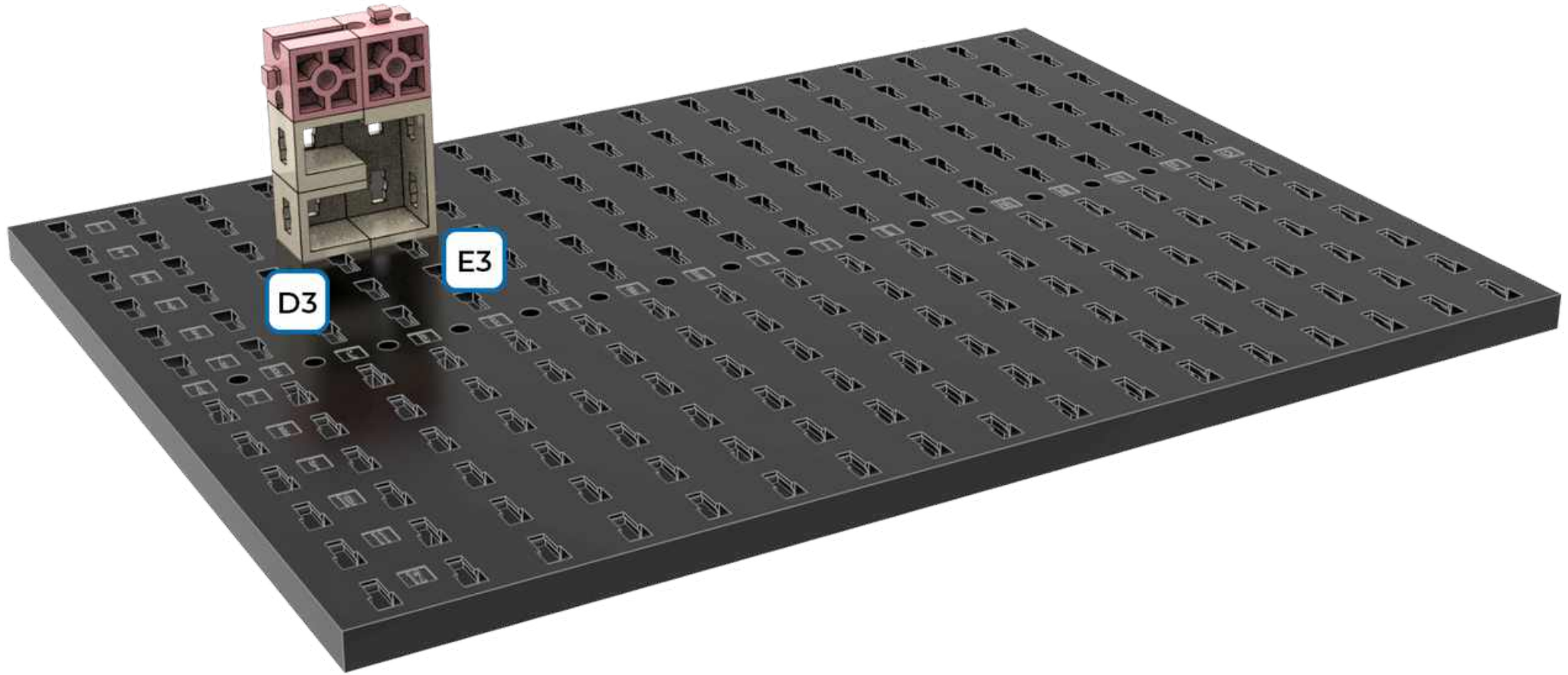
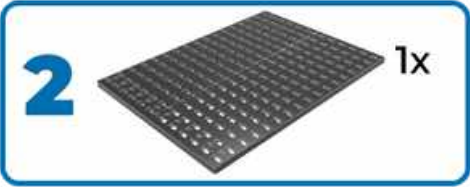






Scheibenwischer parallel

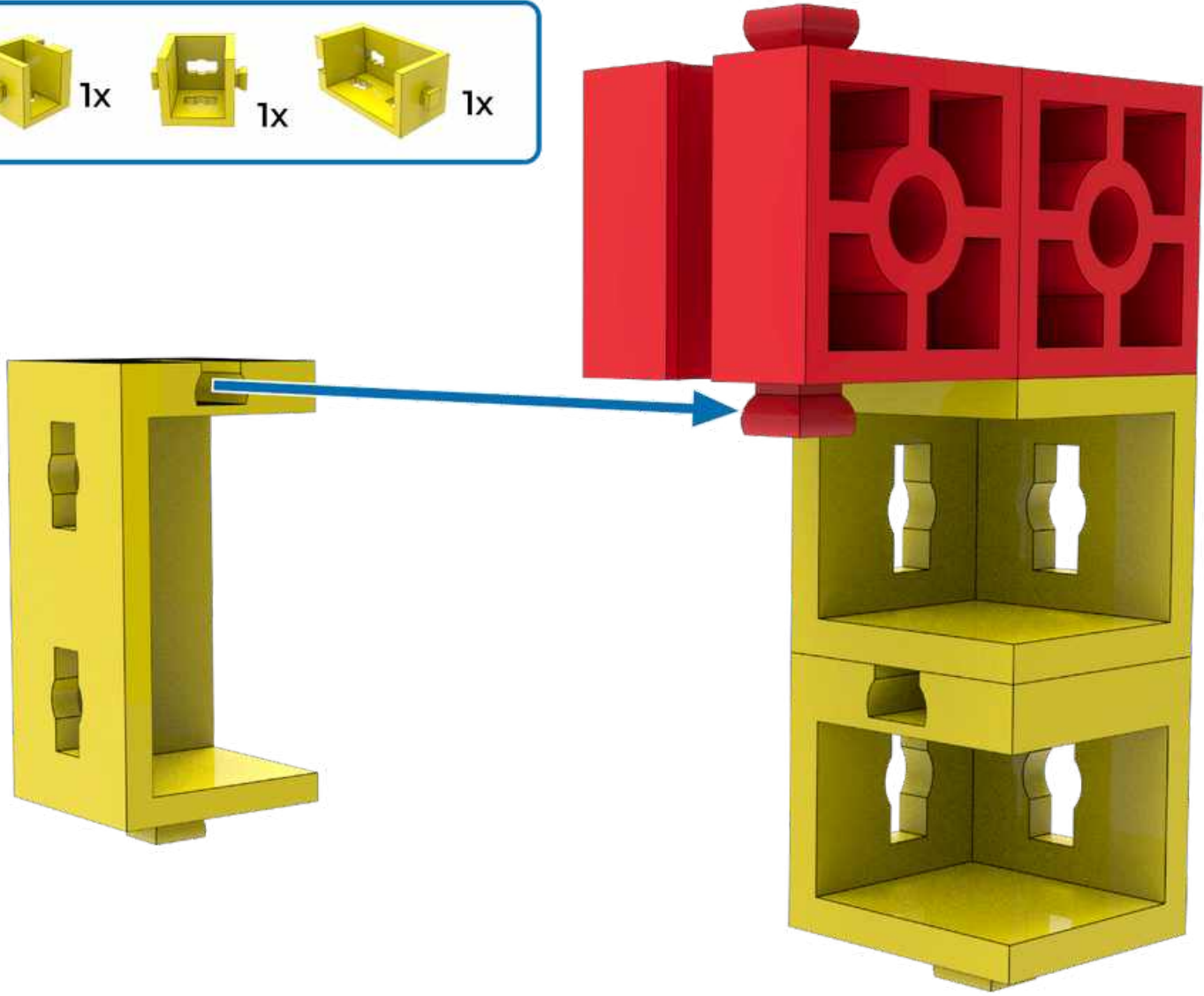


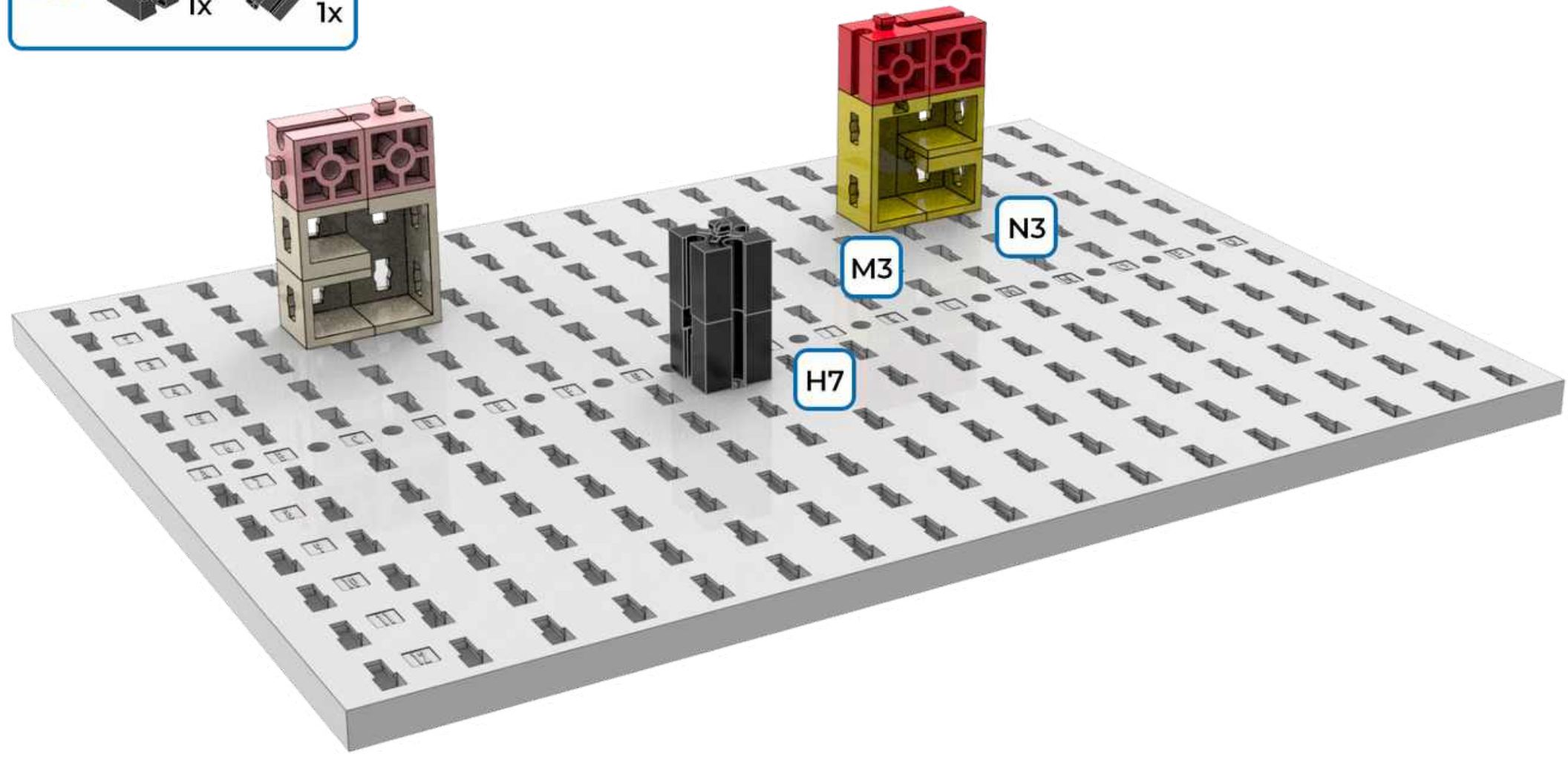
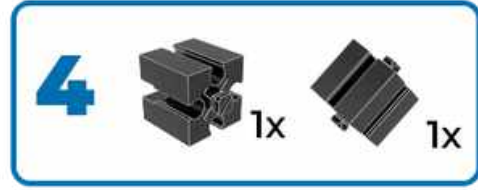
1  2x  1x  1x  1x







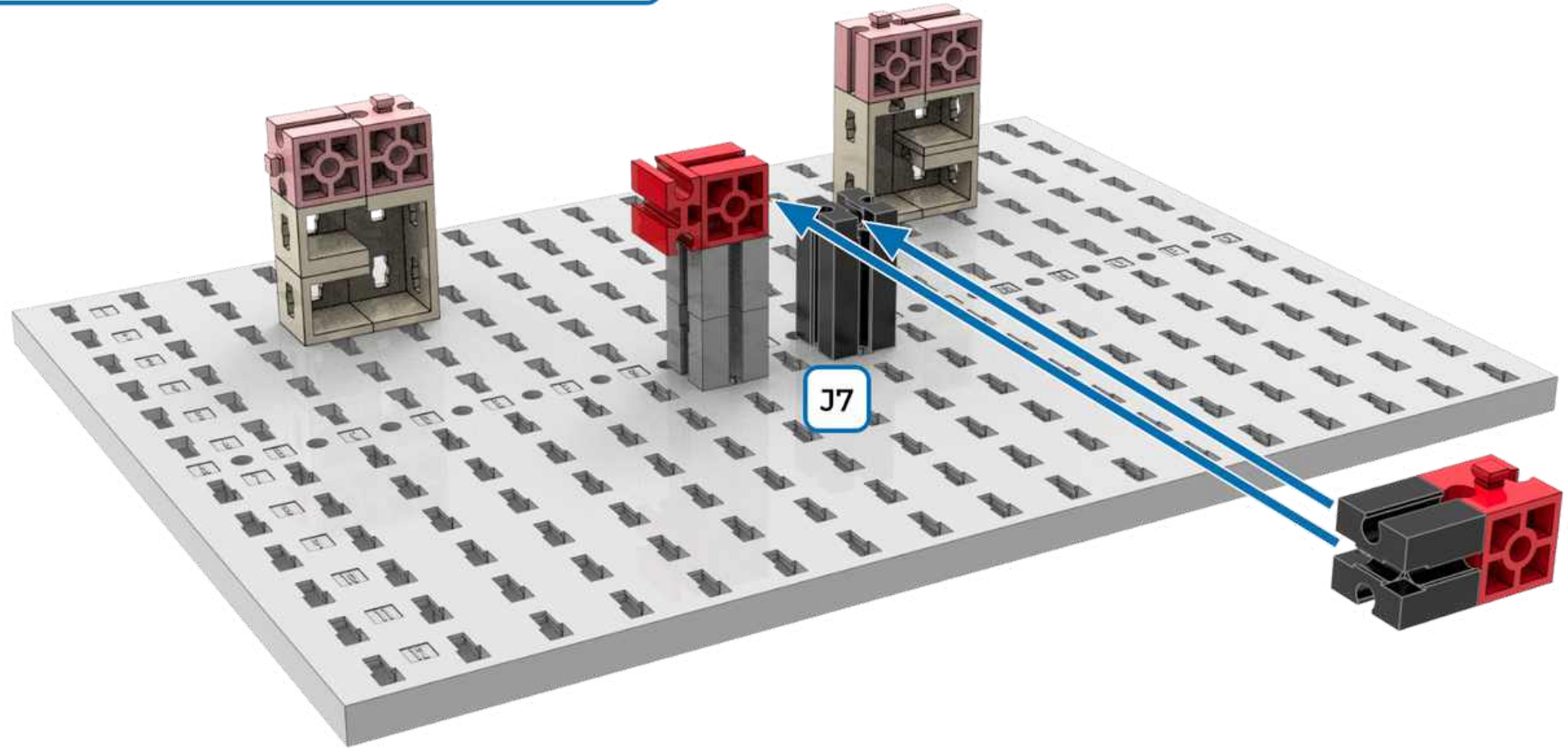


3  2x  1x  1x  1x

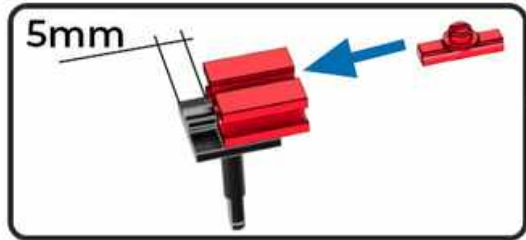
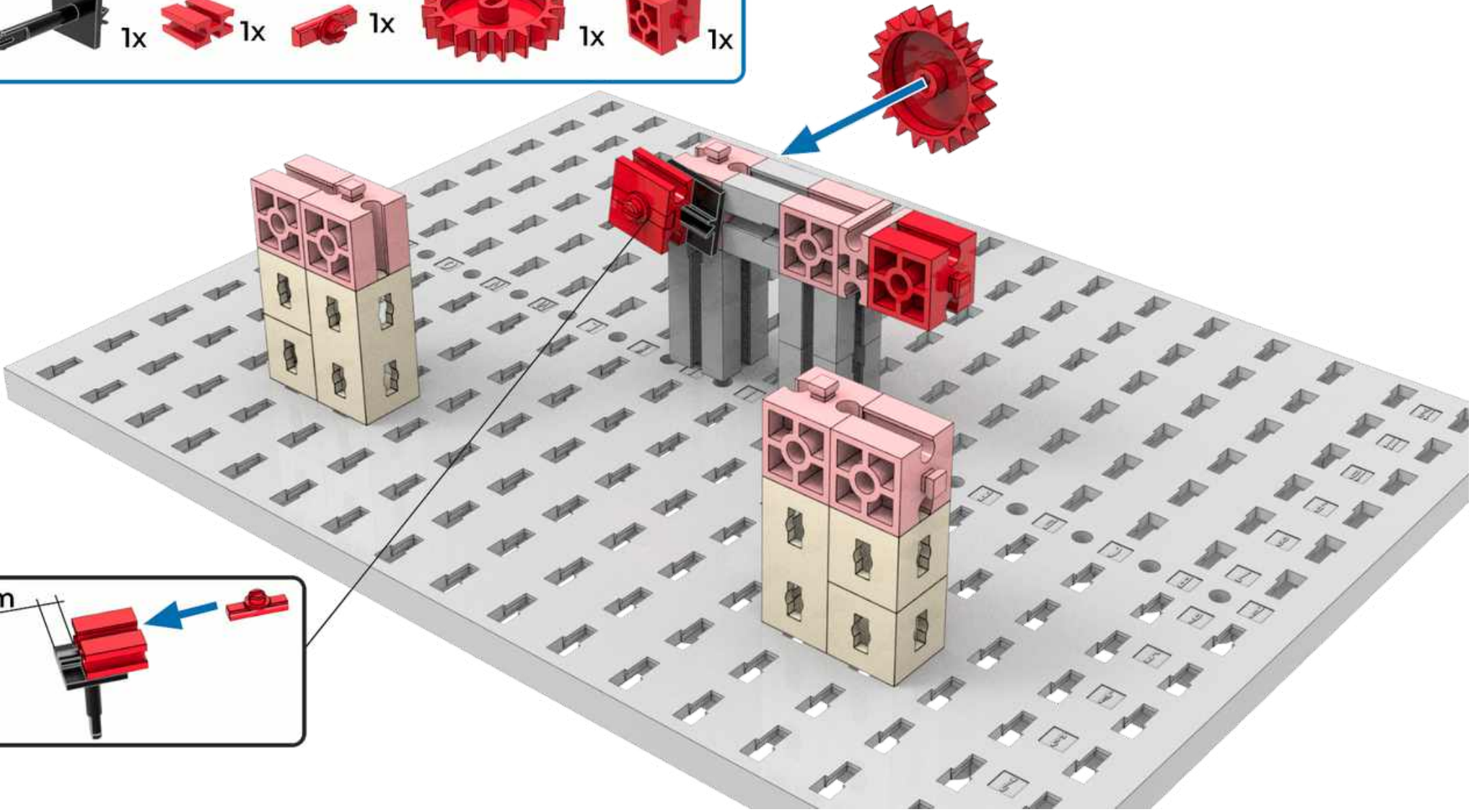





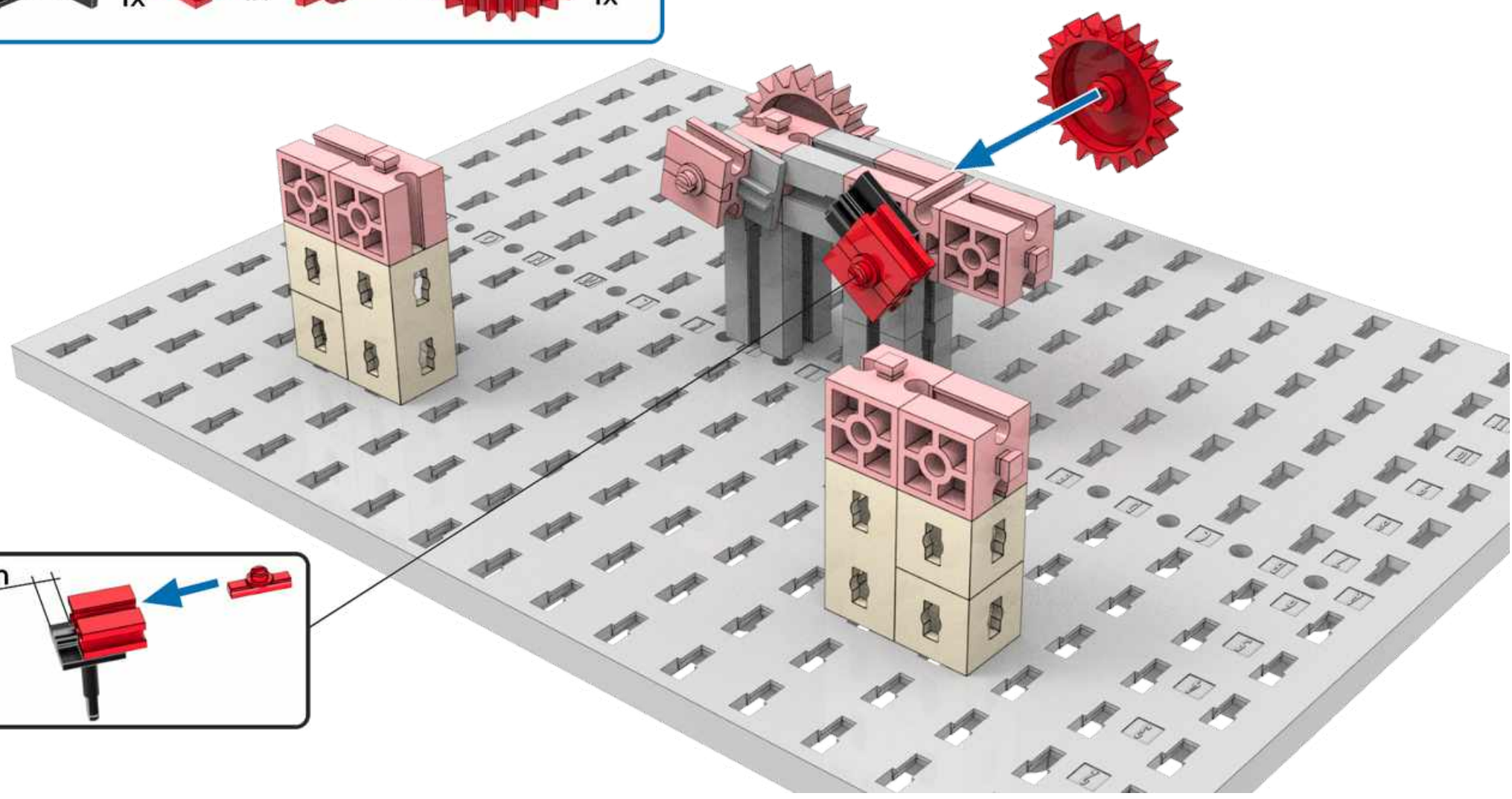
5  1x  1x  2x  1x

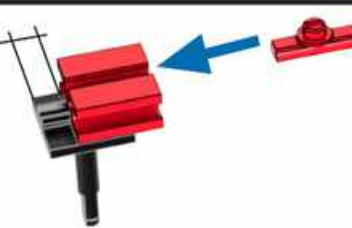





- 6** 1x 1x 1x 1x 1x

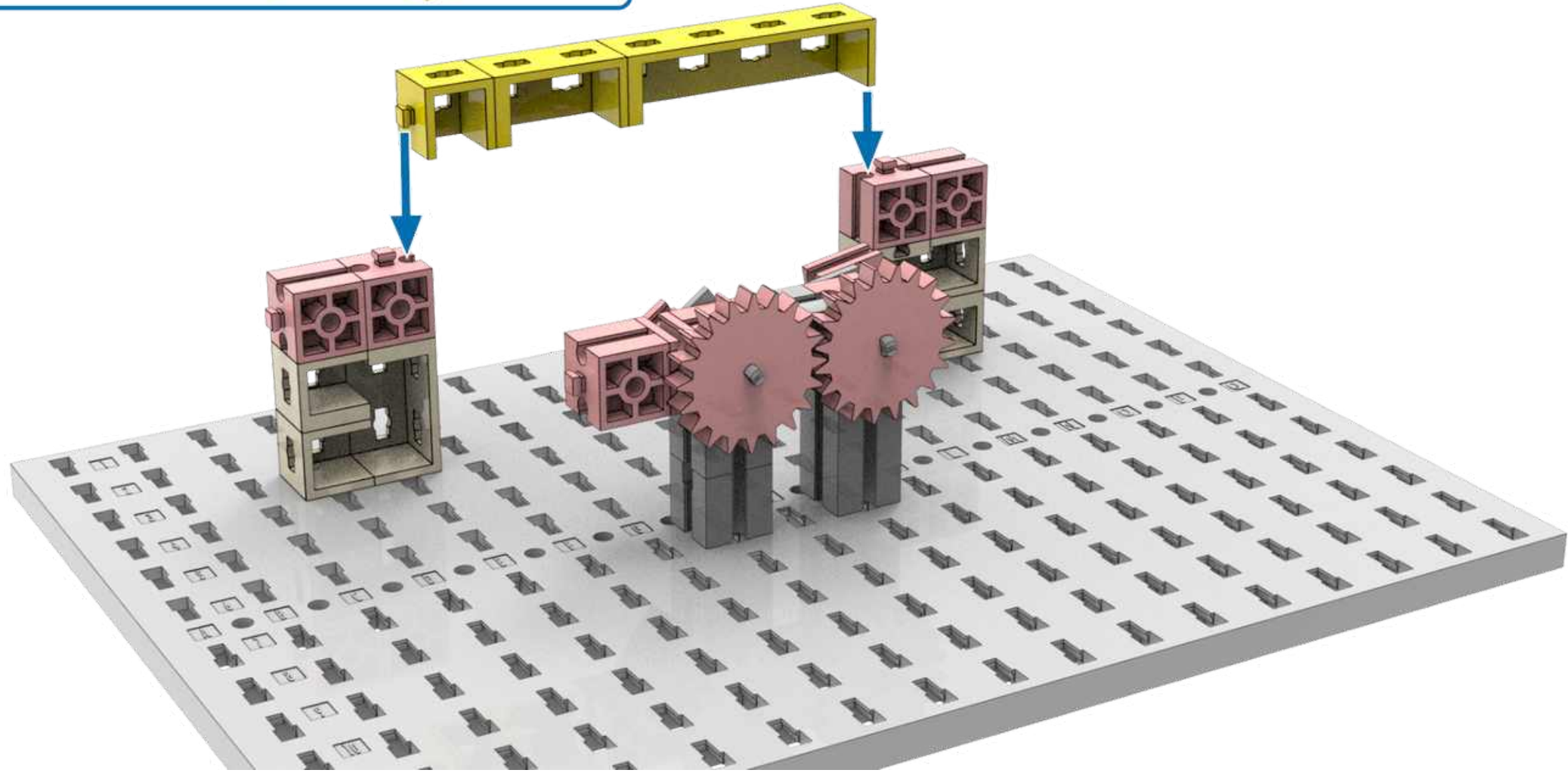


7  1x 1x 1x 1x

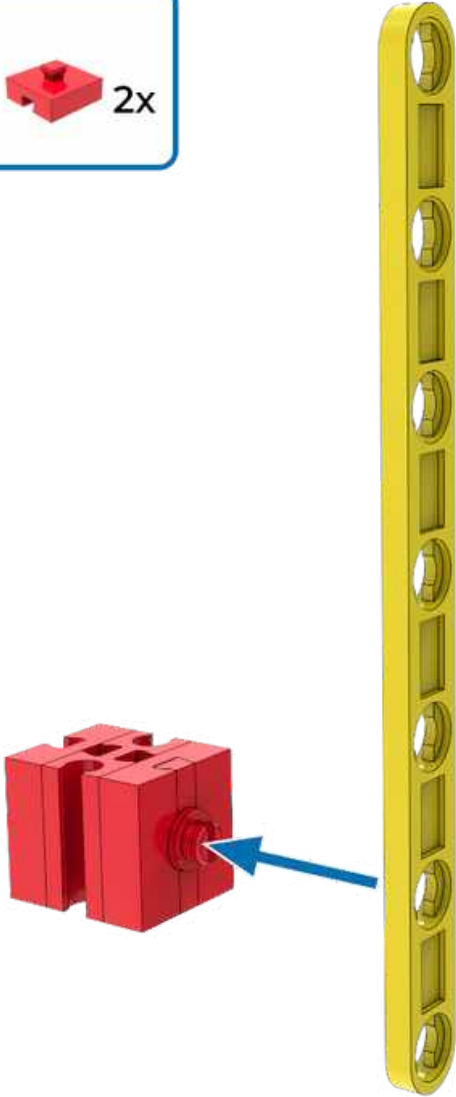
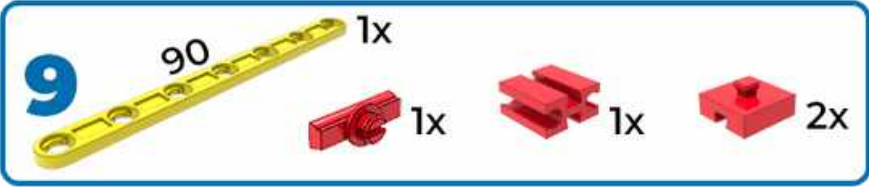


5mm 

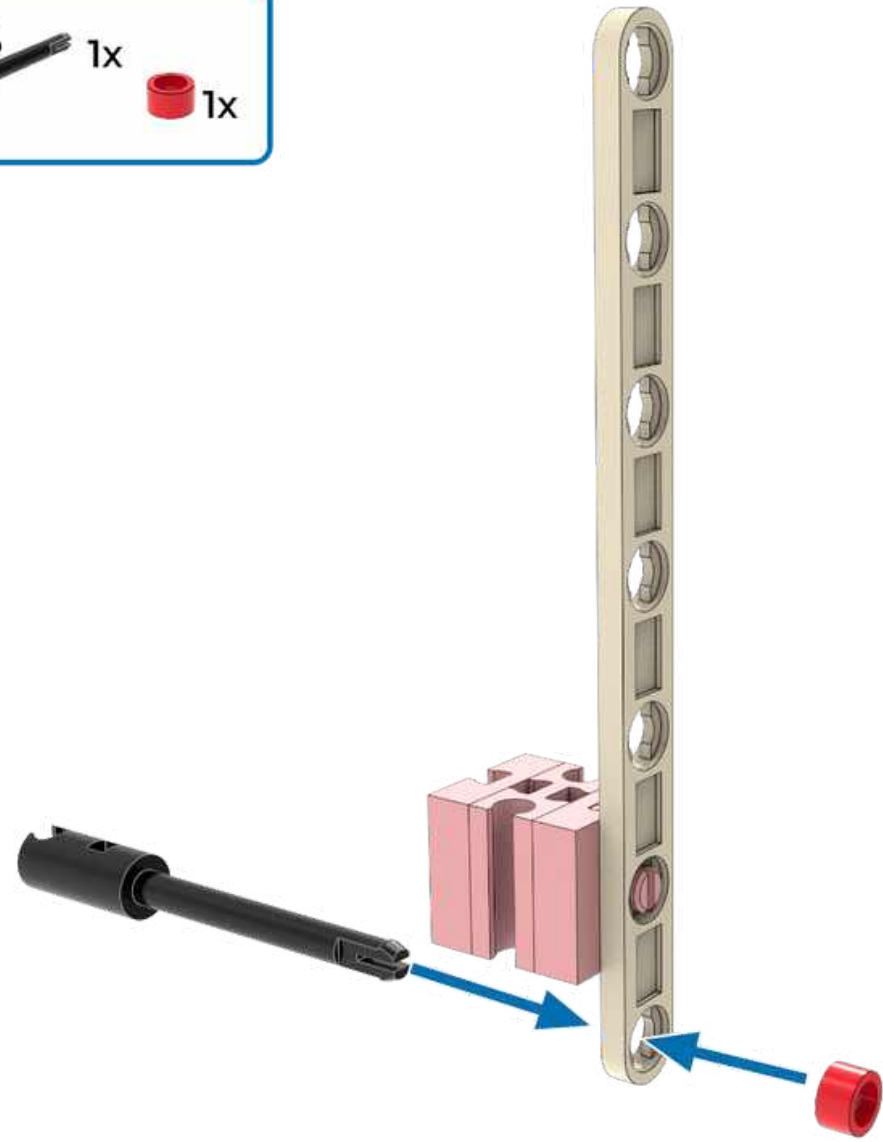
8  1x  1x  1x




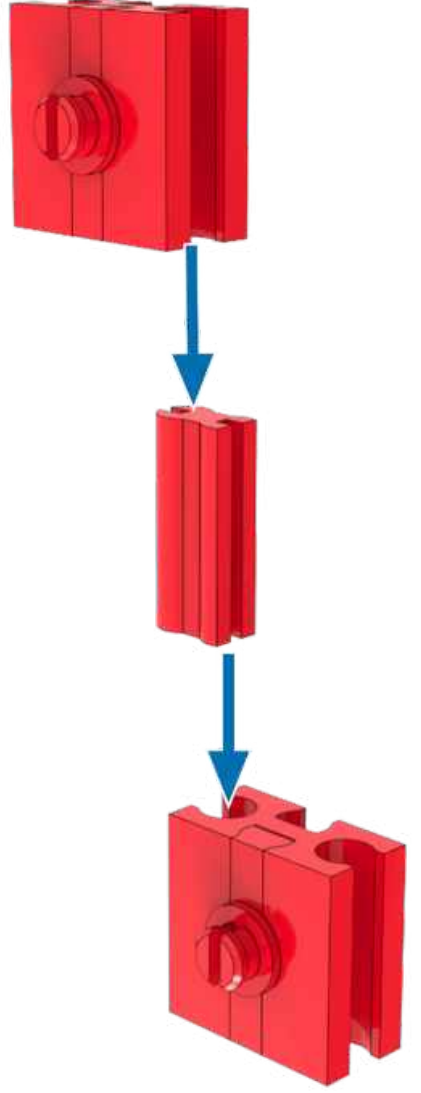
9 90 1x
1x 1x 2x



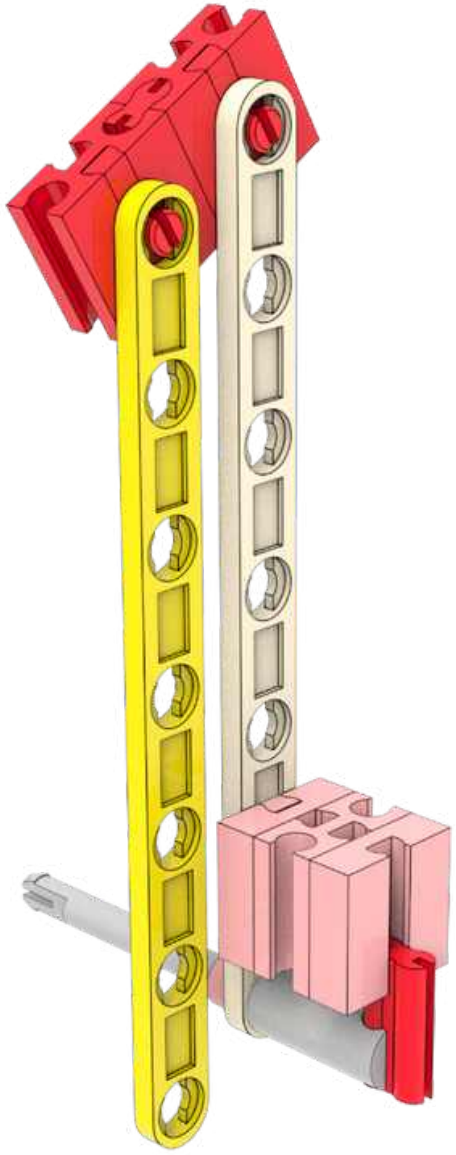

10  1x  1x  1x



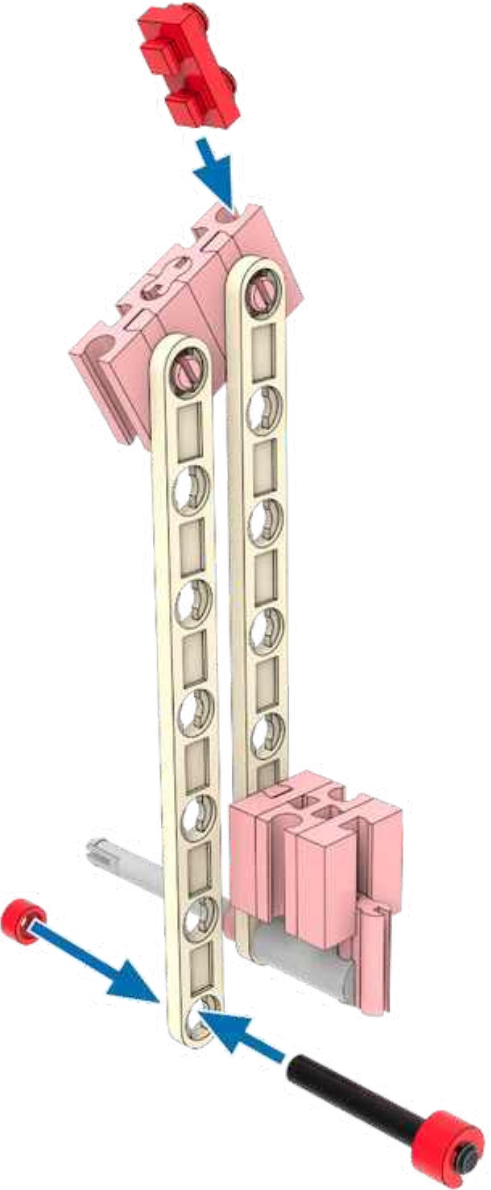
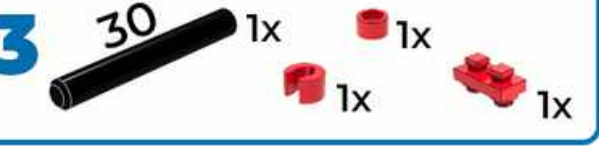
11  1x  2x  2x



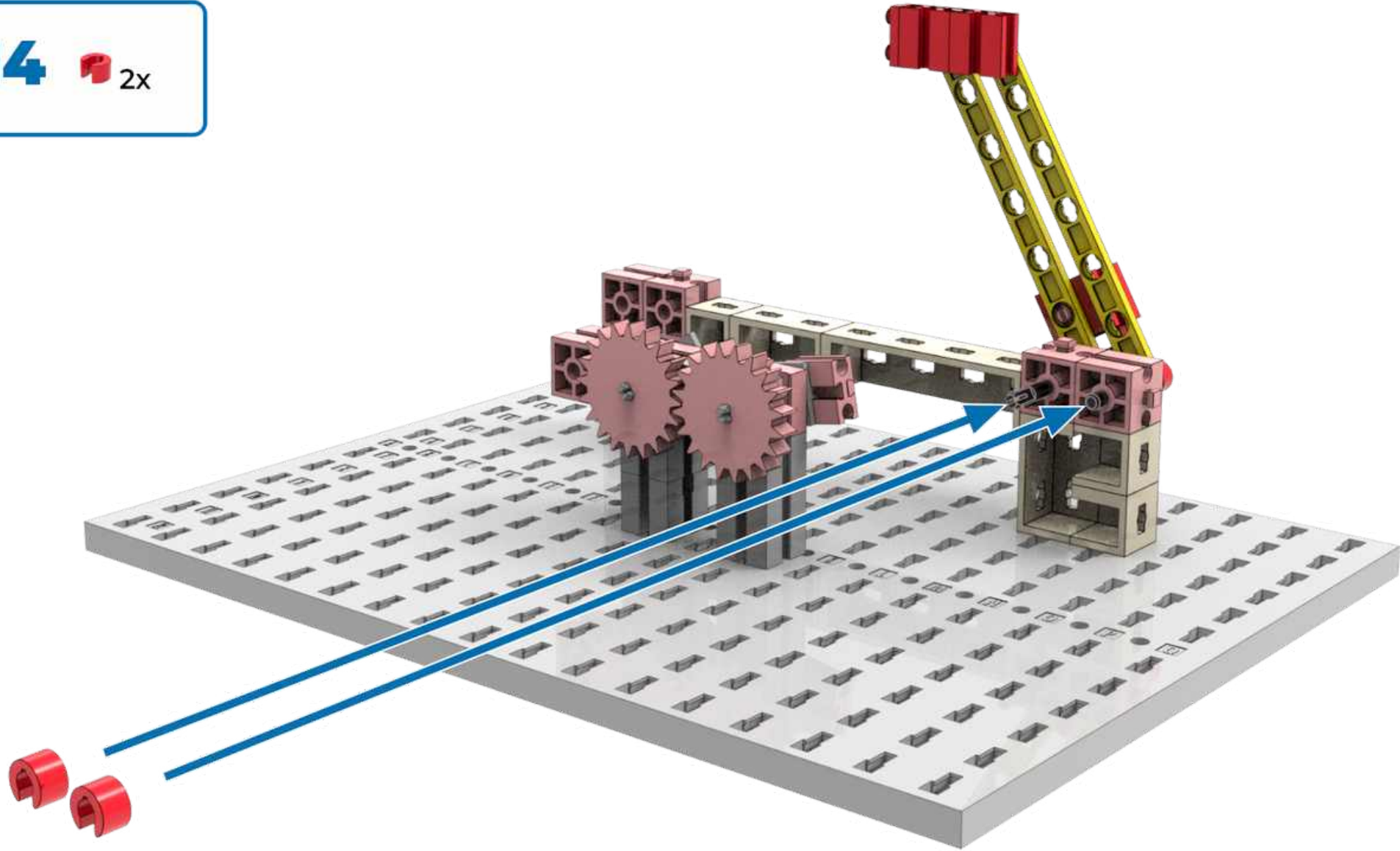
12 ¹⁵ 1x ⁹⁰ 1x

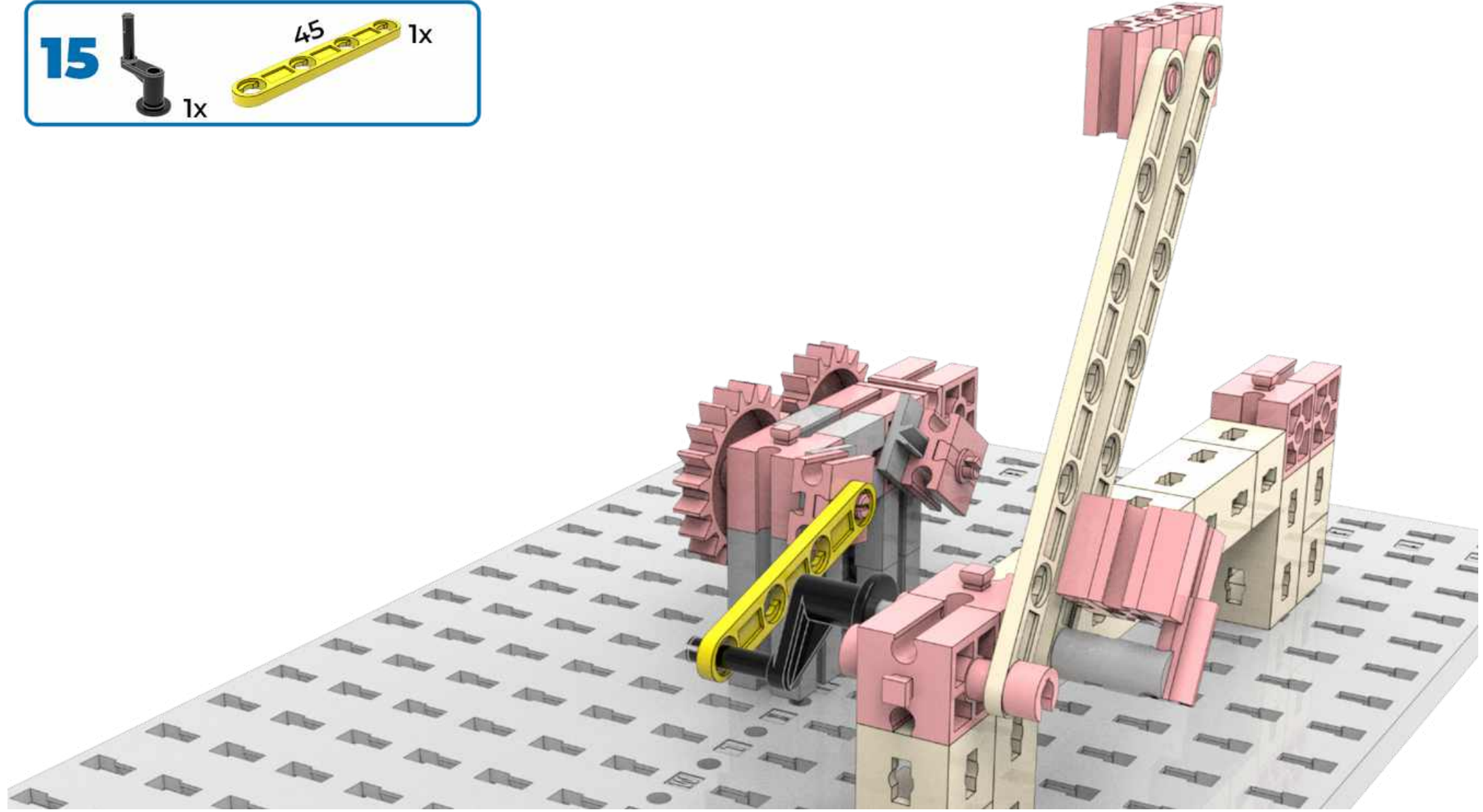
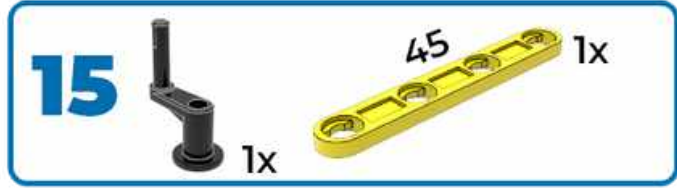


13 30 1x 1x 1x 1x

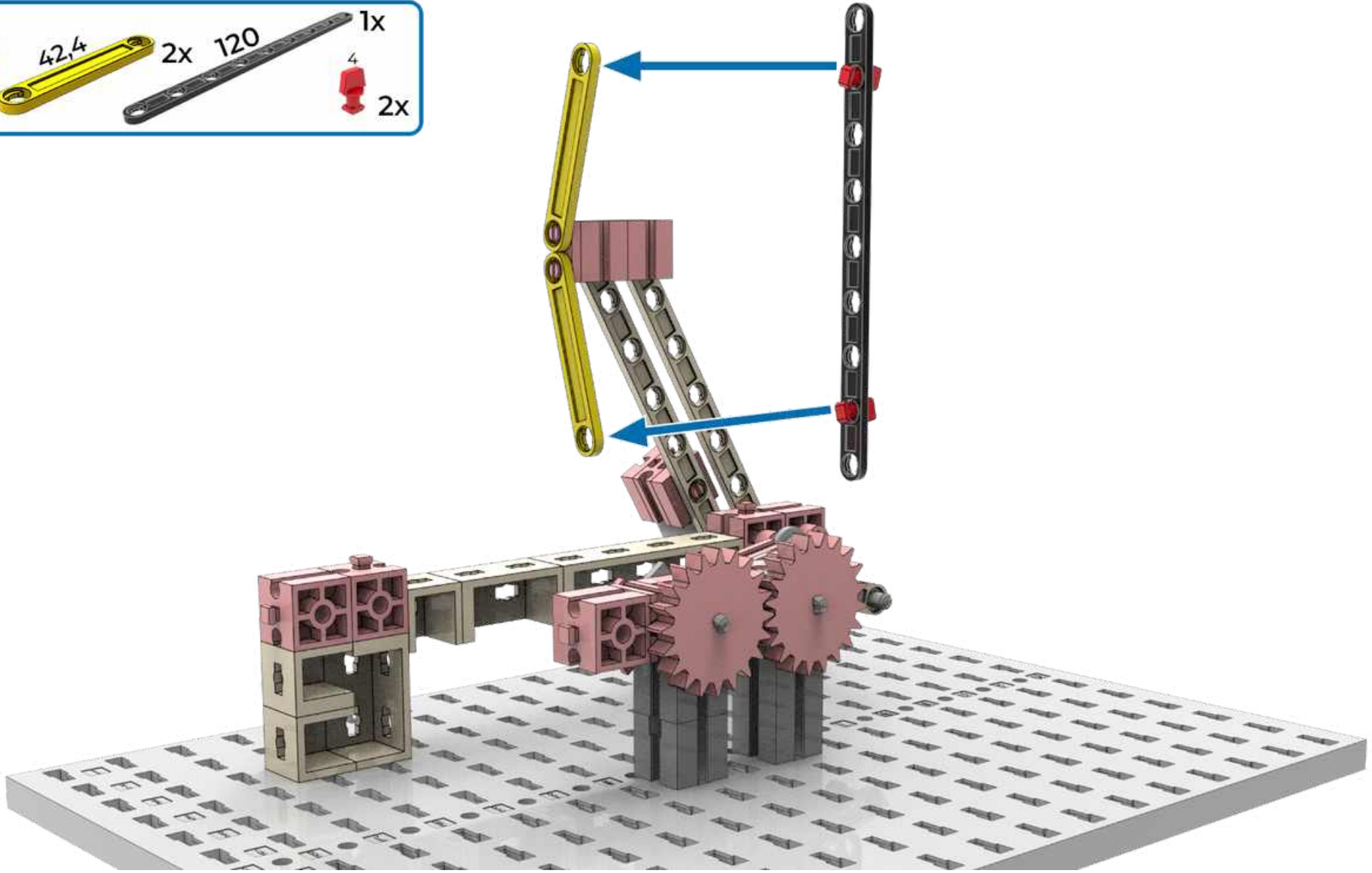


14  2x

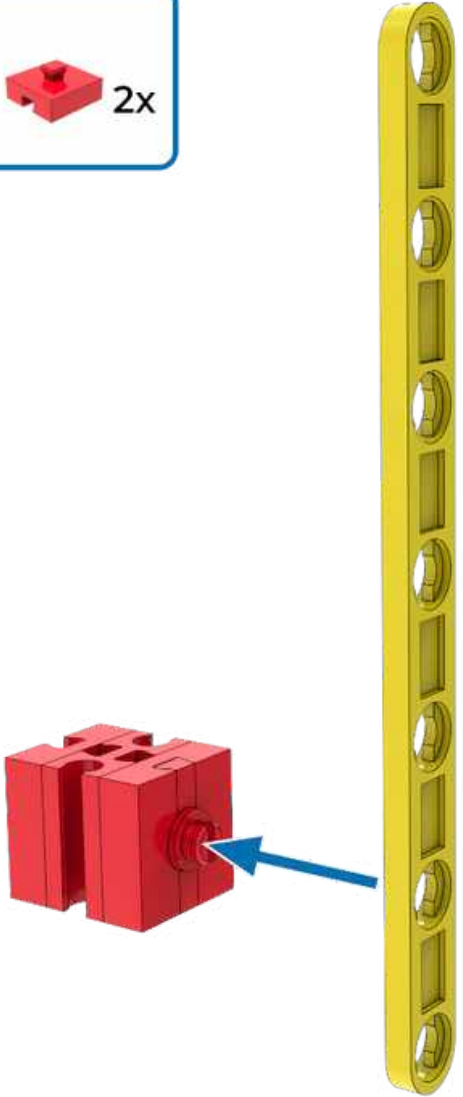
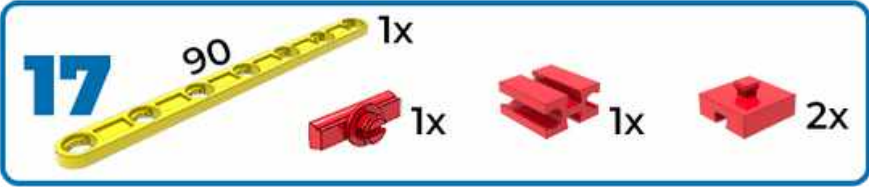




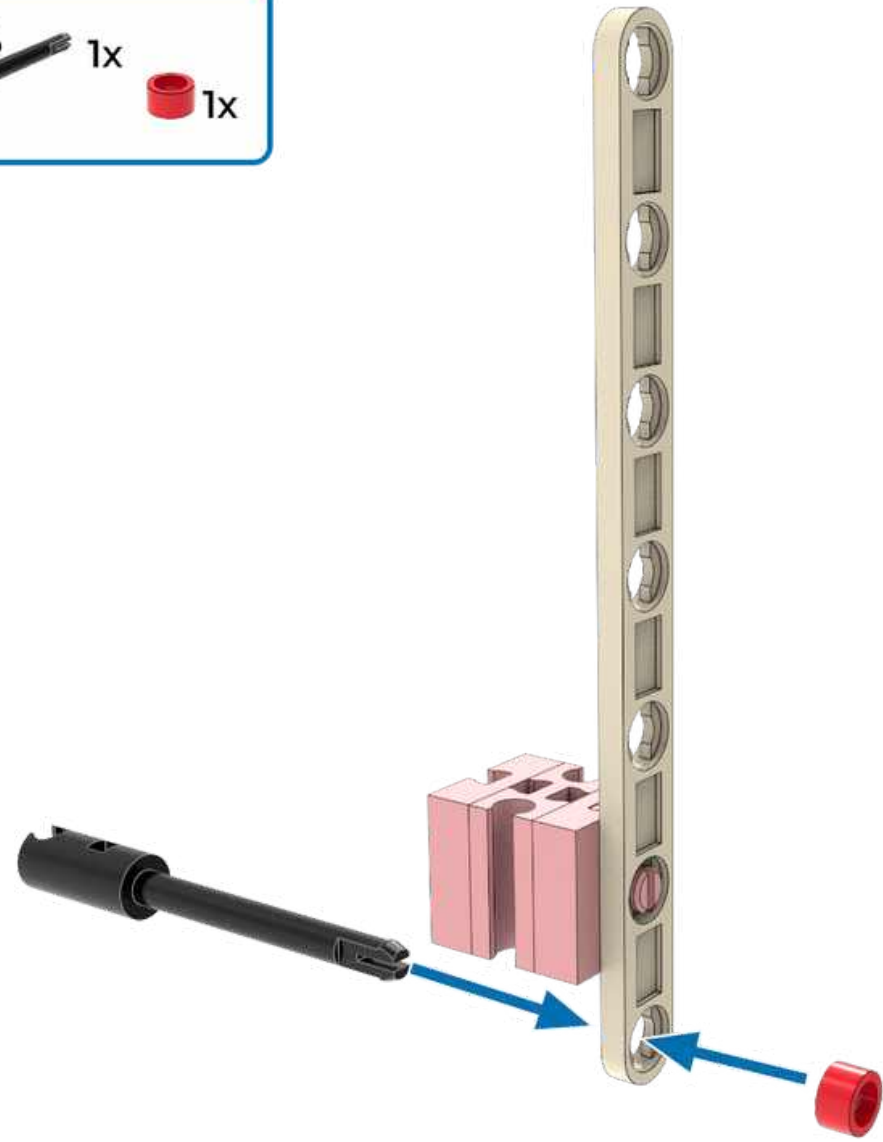
16 4x2,4 2x 120 1x 4 2x




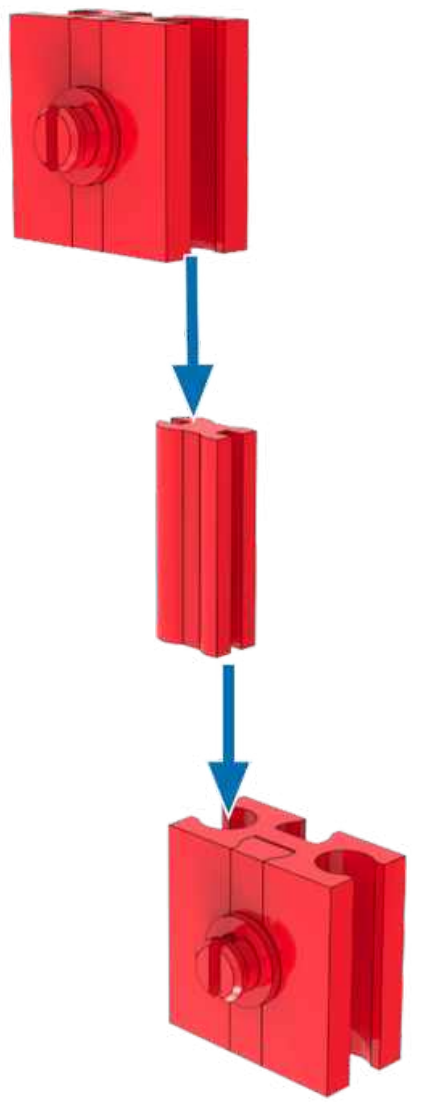
17 90 1x
1x 1x 2x

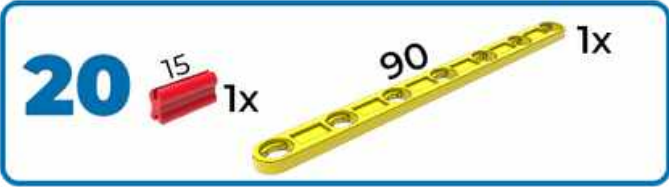


18  1x  1x  1x



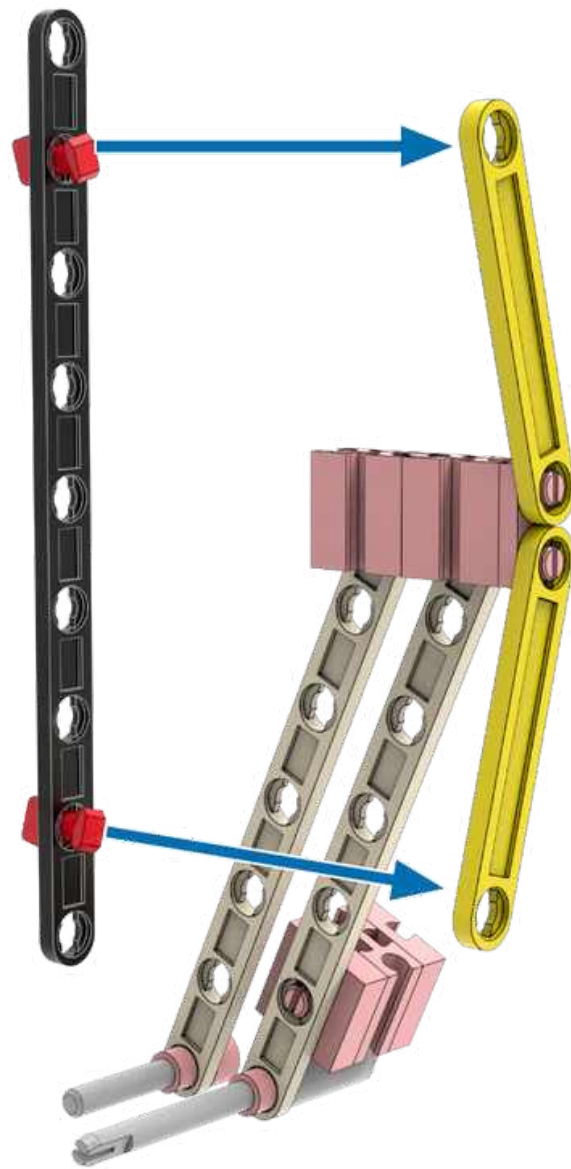
19  ¹⁵ 1x  2x  2x



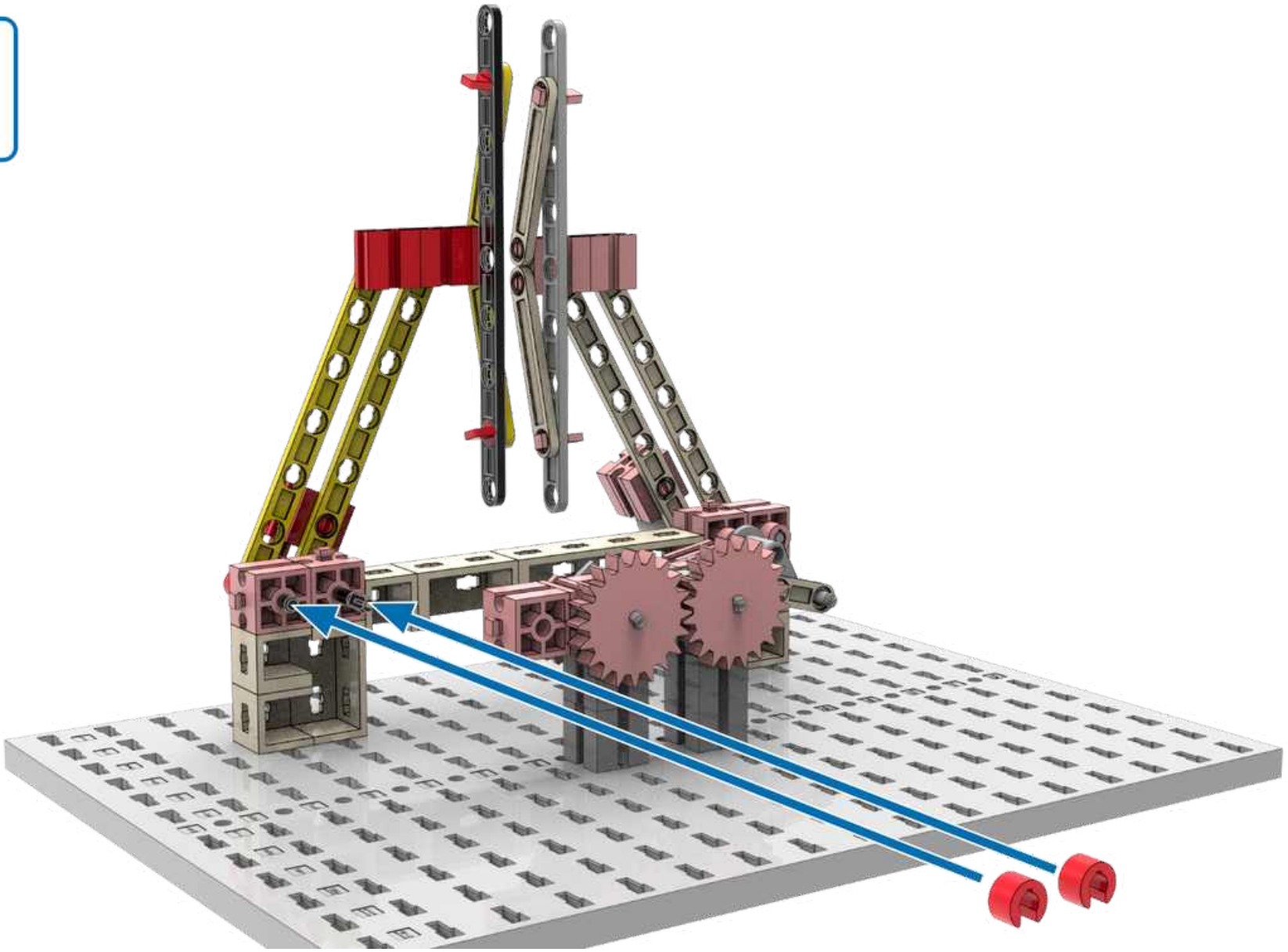




21 30 1x 1x 1x 1x

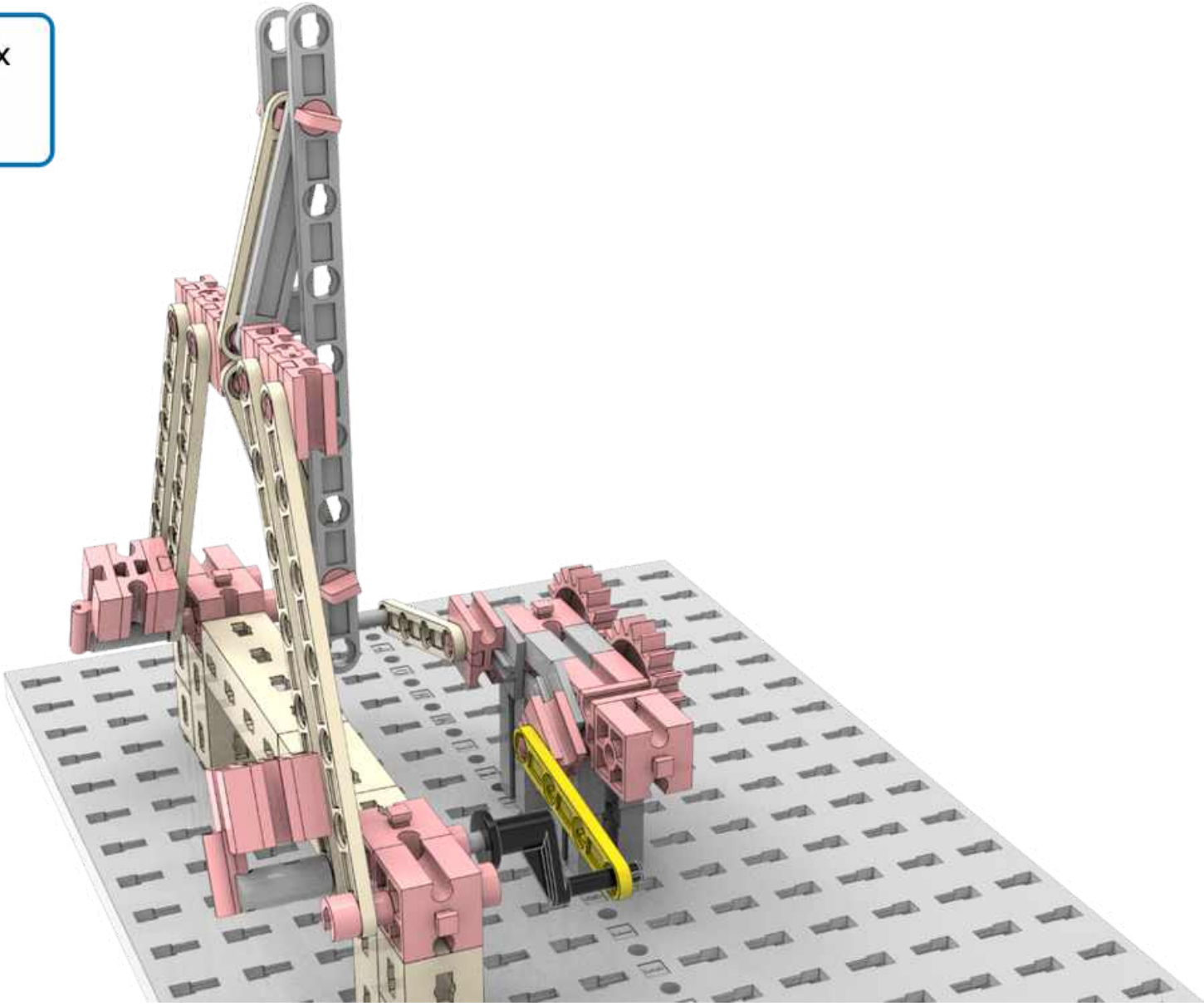







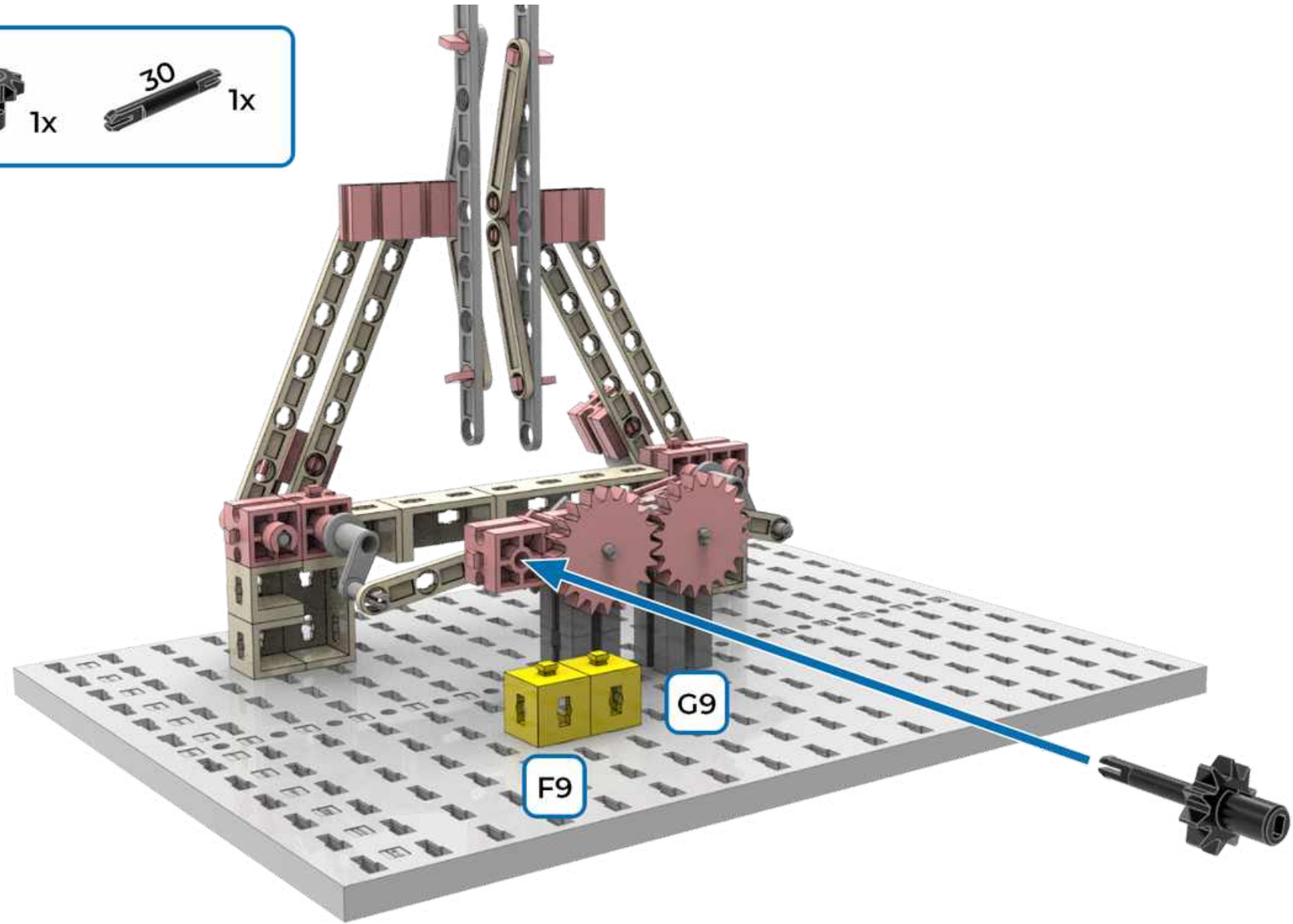
23  2x





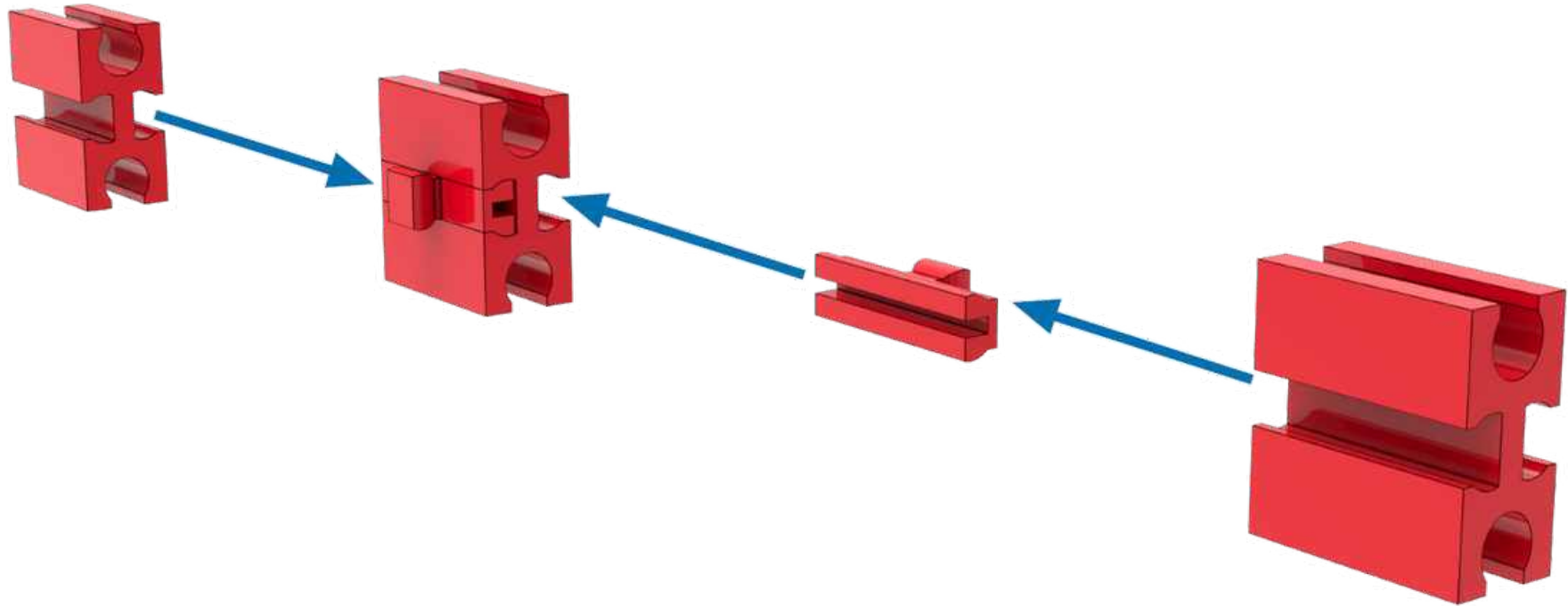
24  1x  45 1x



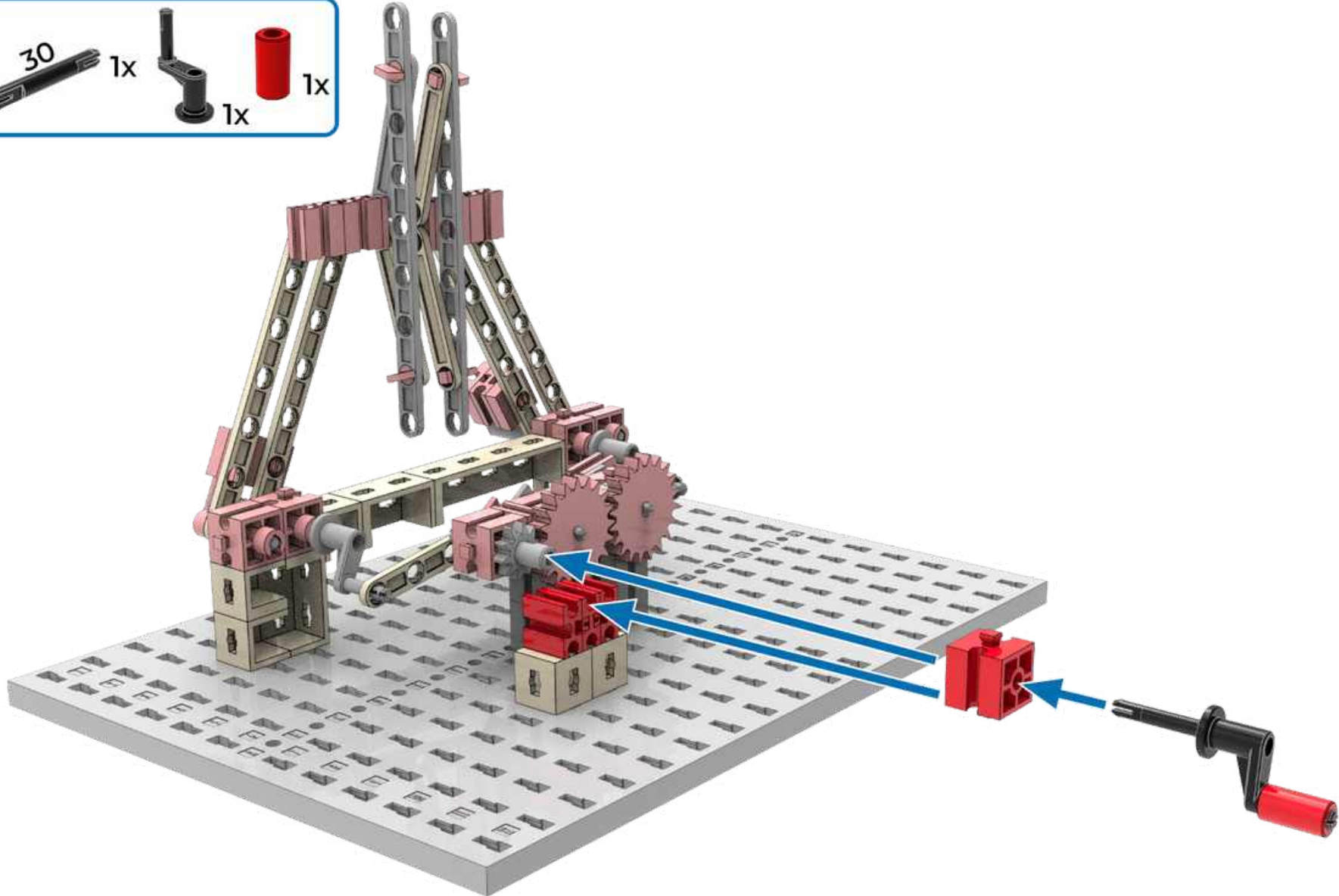
25  1x  1x  30 1x



26  2x  3x



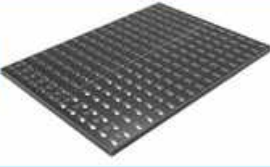


27  1x  1x  1x  1x

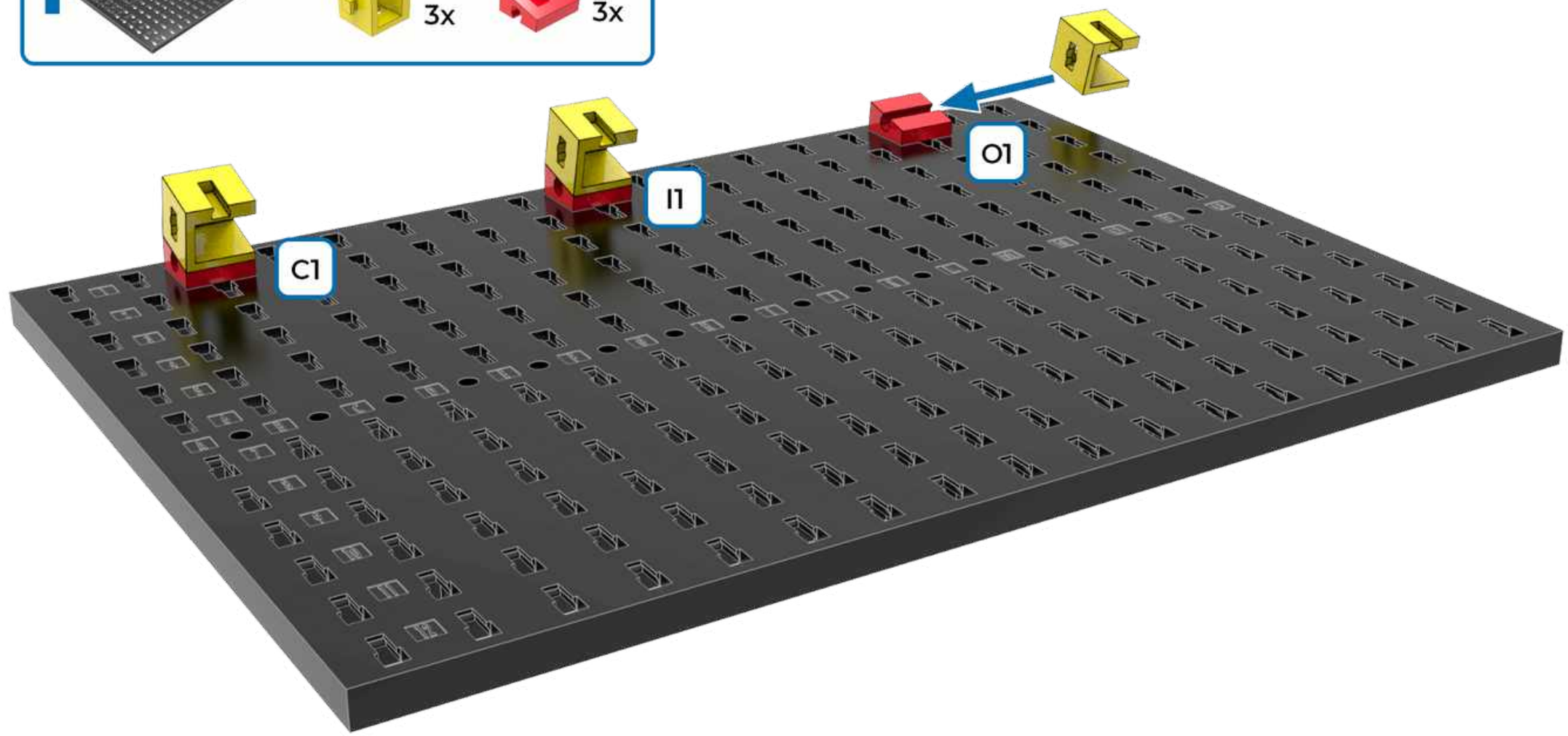





Scheibenwischer gleichläufig

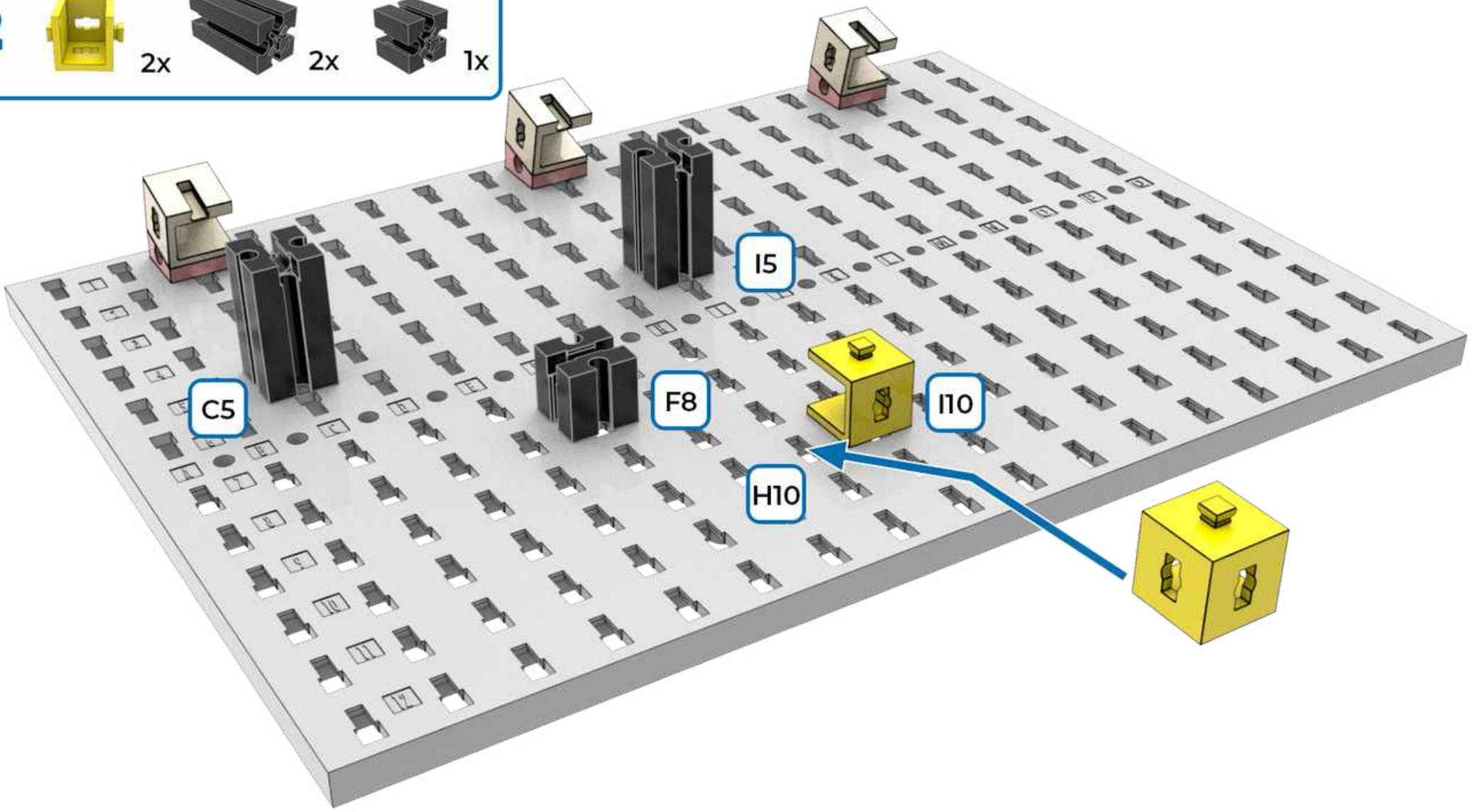







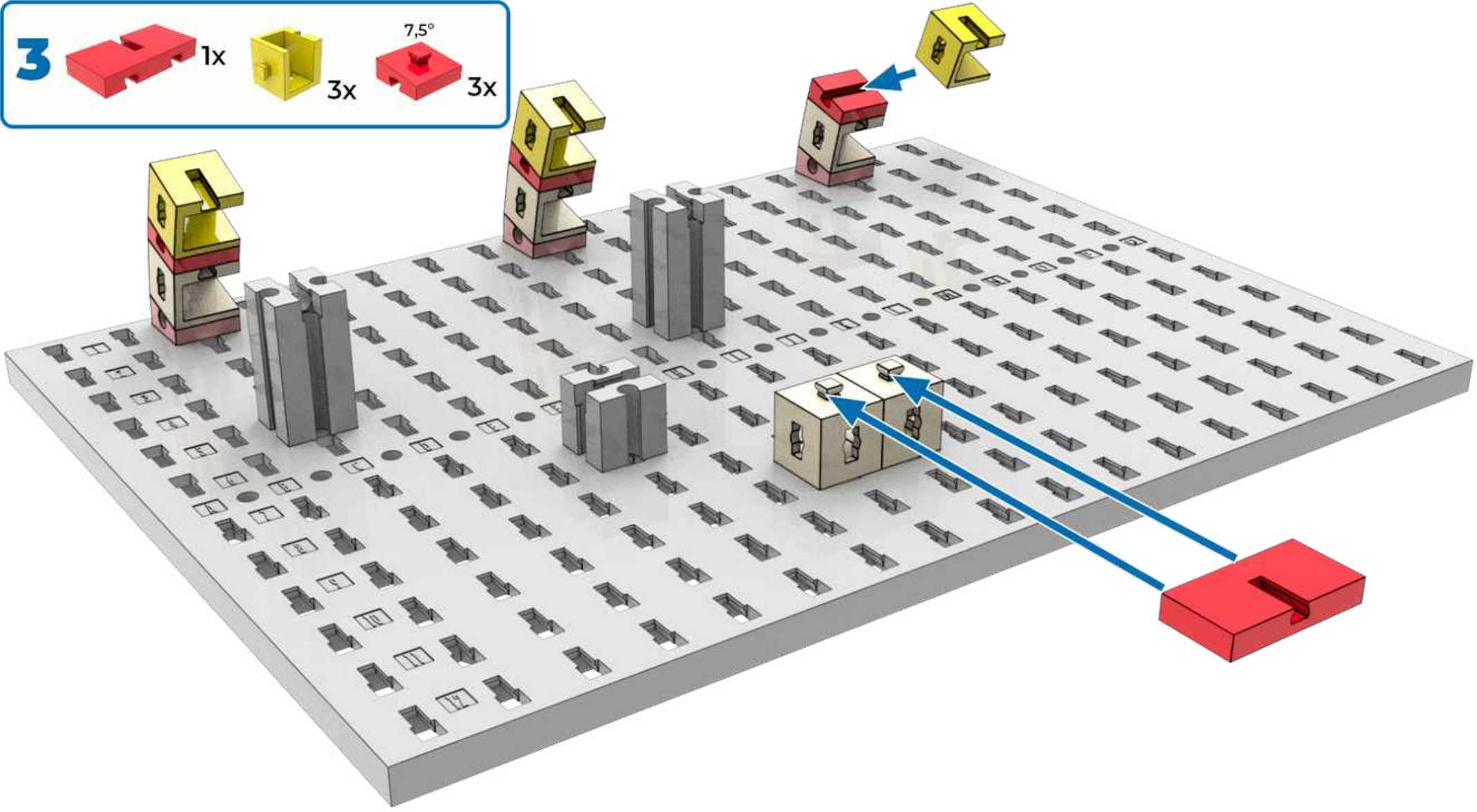
1  1x  3x  15° 3x





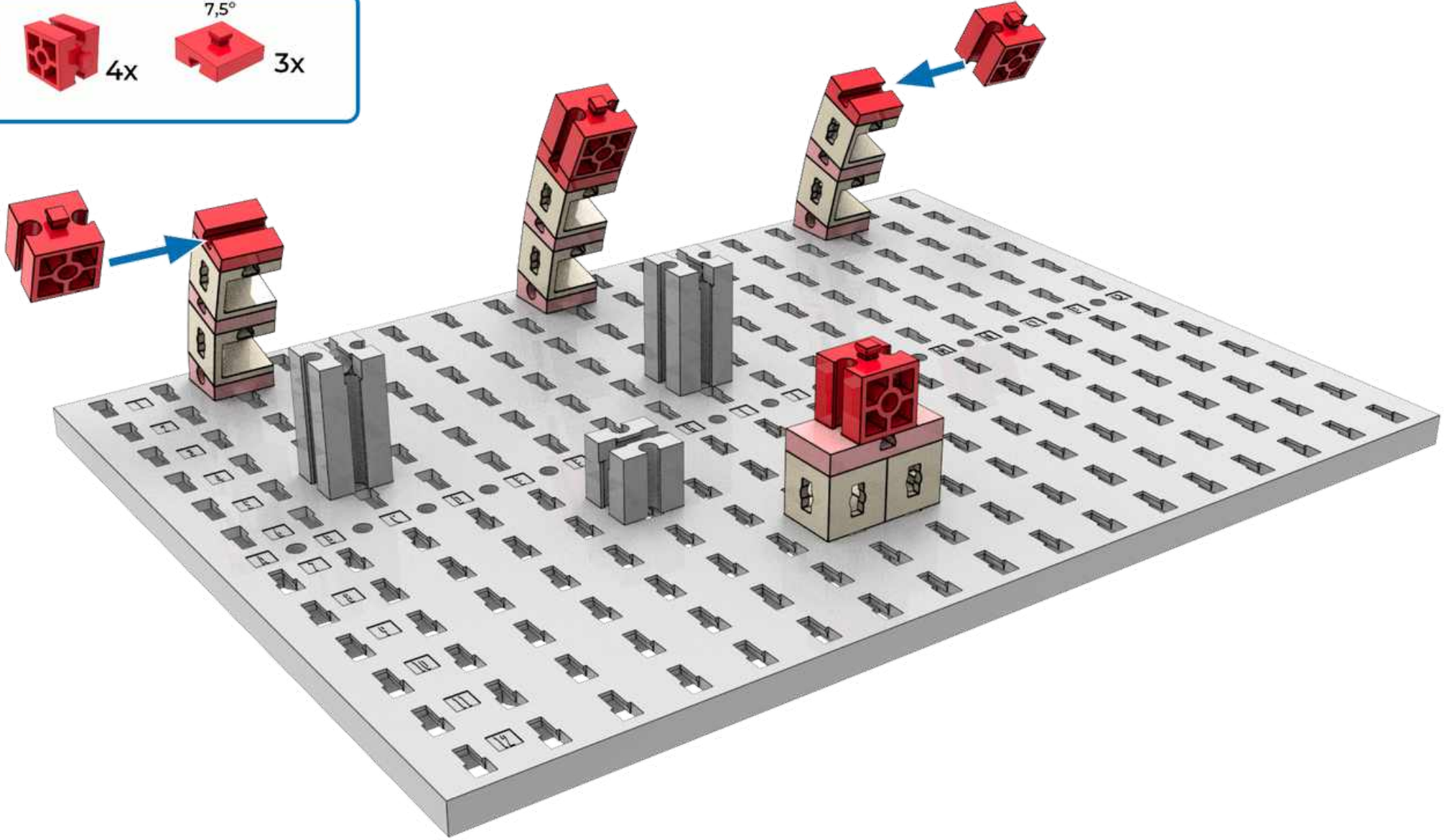
2  2x  2x  1x



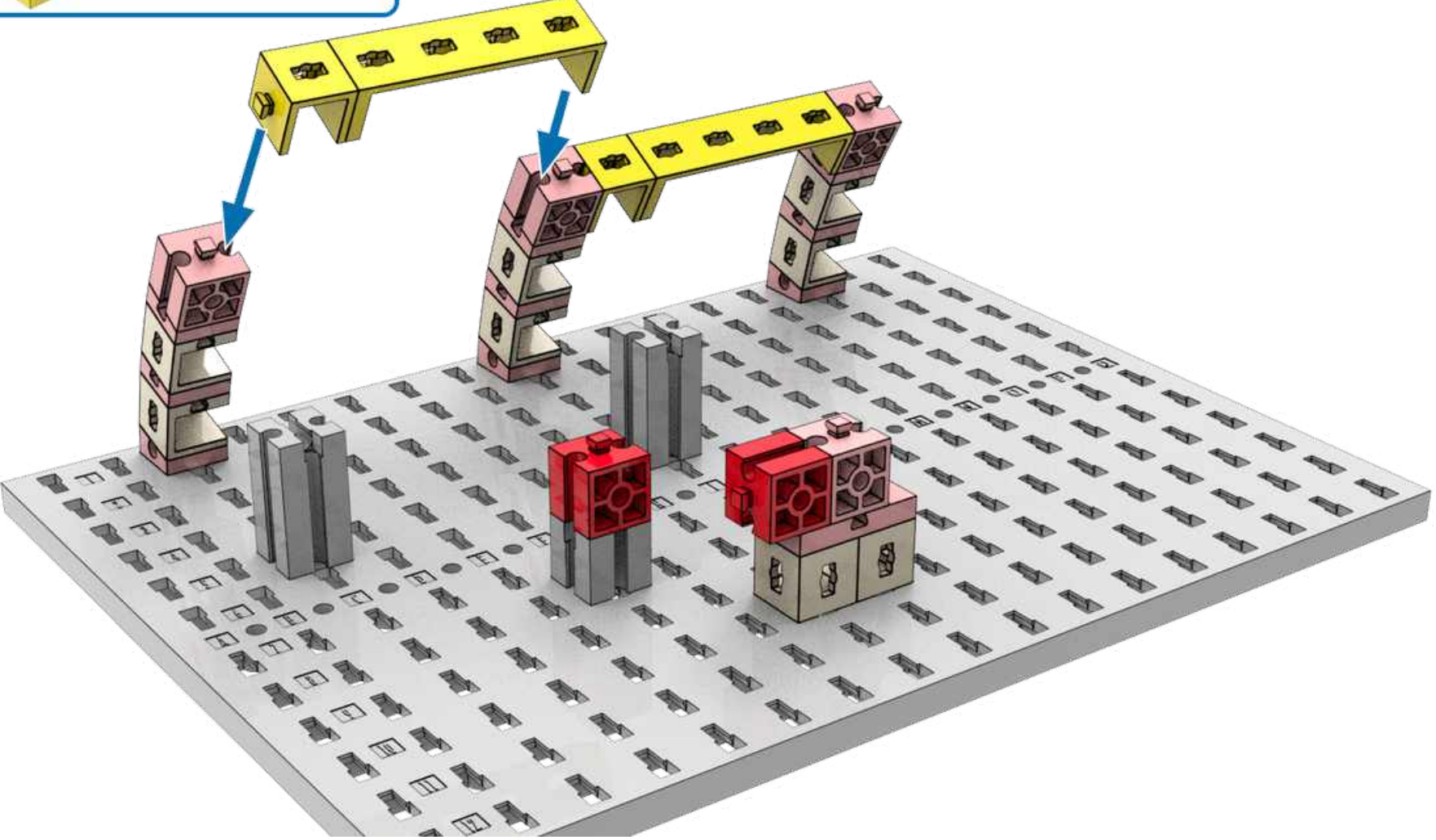
3  1x  3x  7,5° 3x






4  4x  7,5° 3x

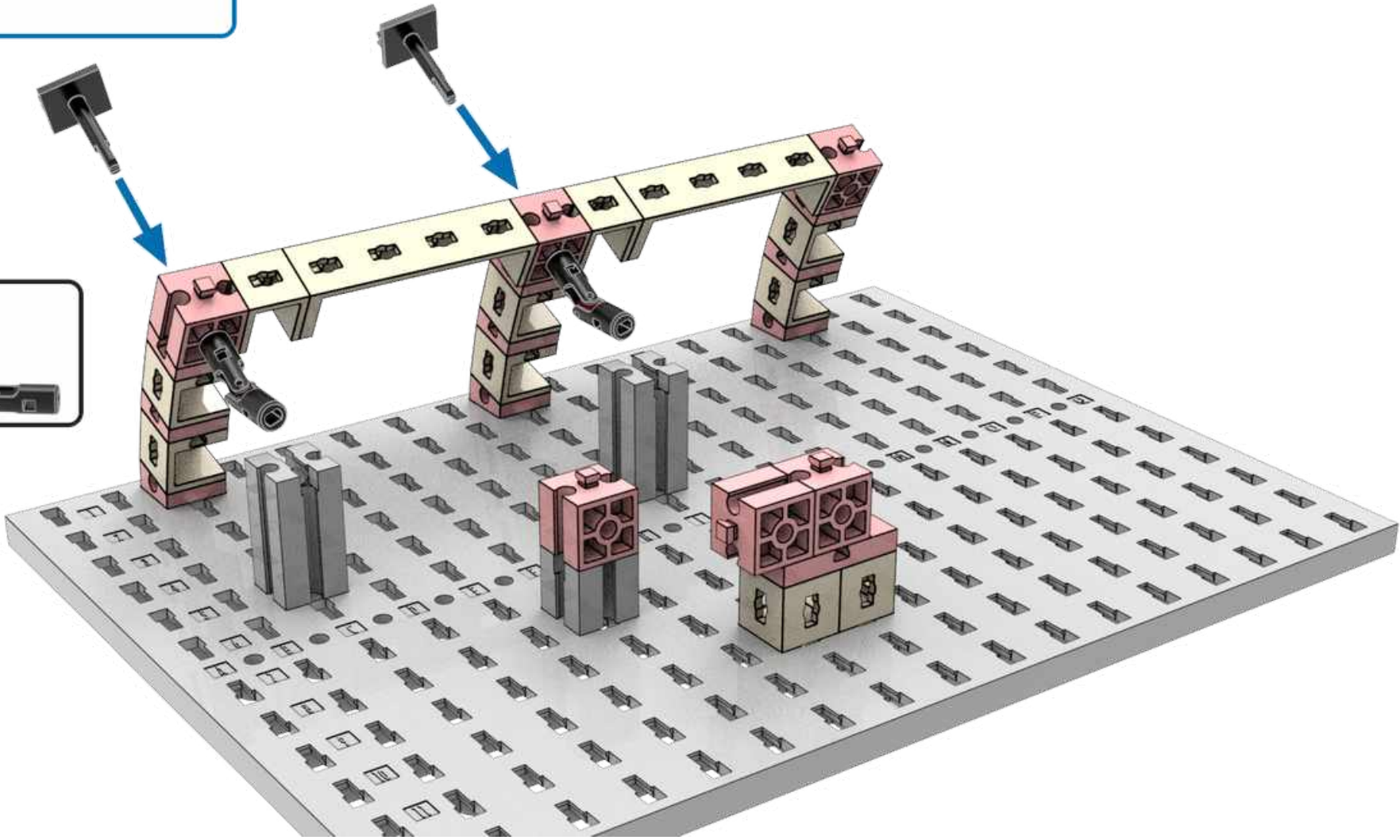


5  2x  2x  2x

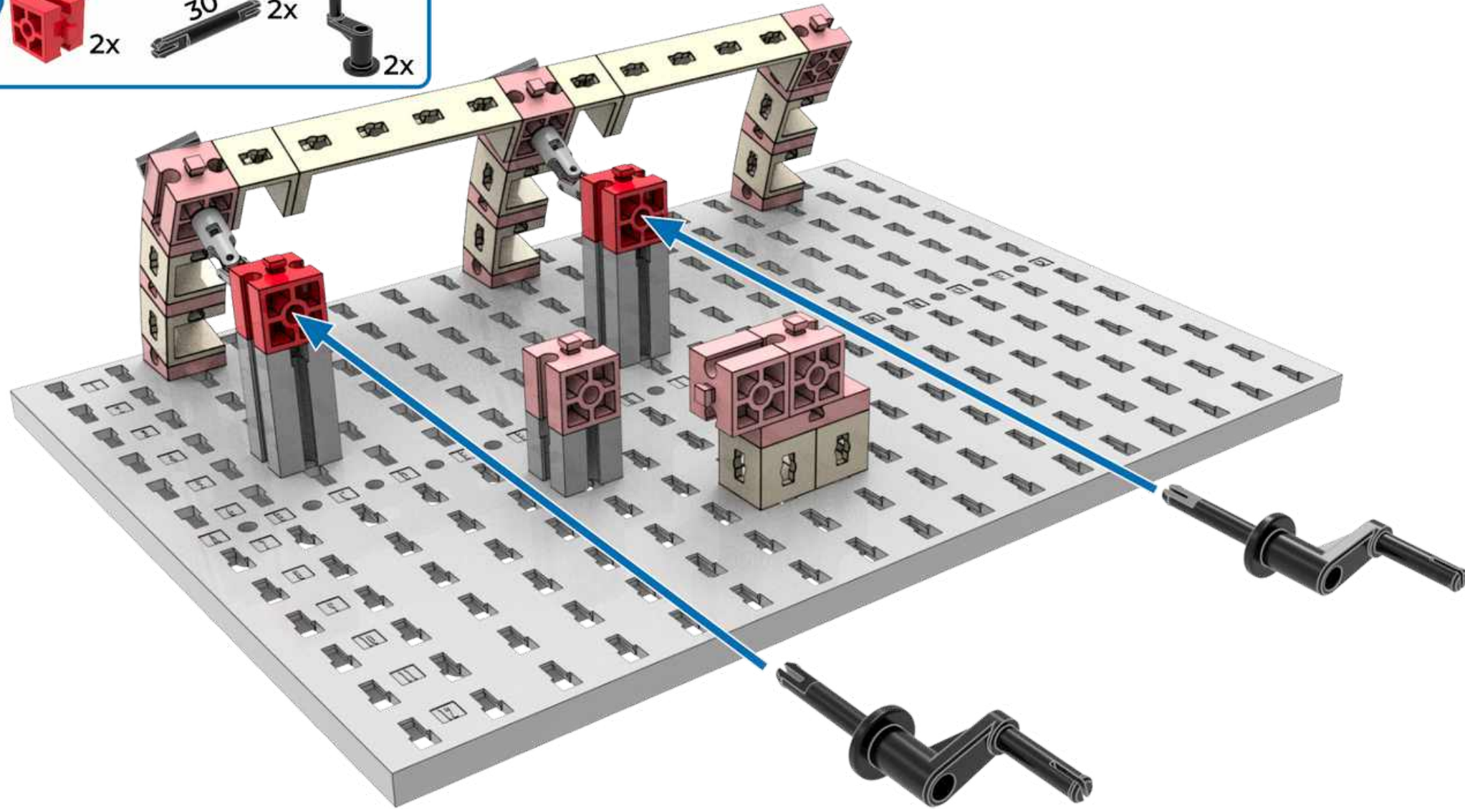







6  2x  4x  2x

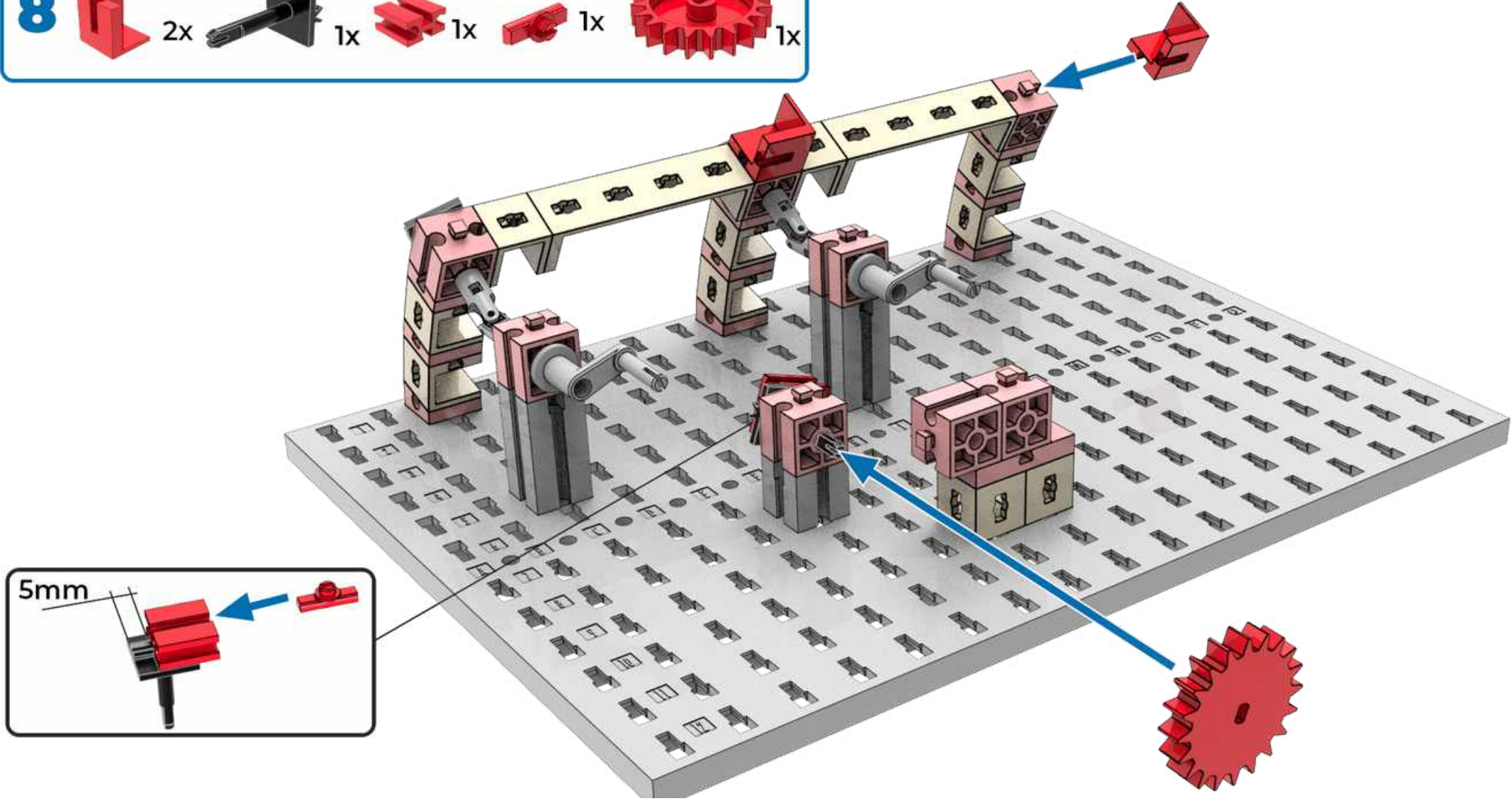
  2x 



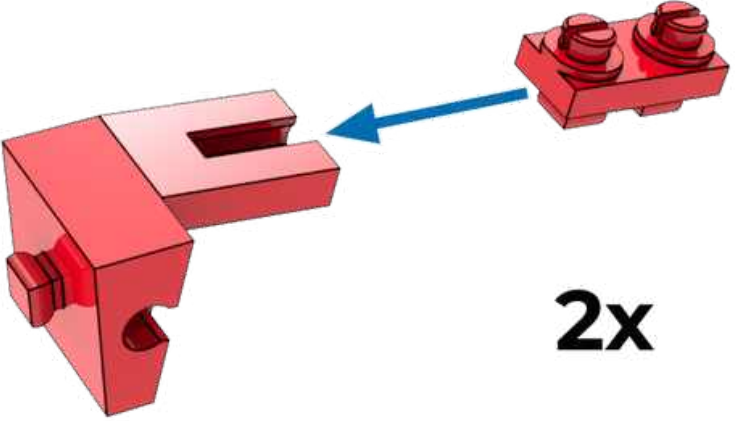
7  2x  2x  2x



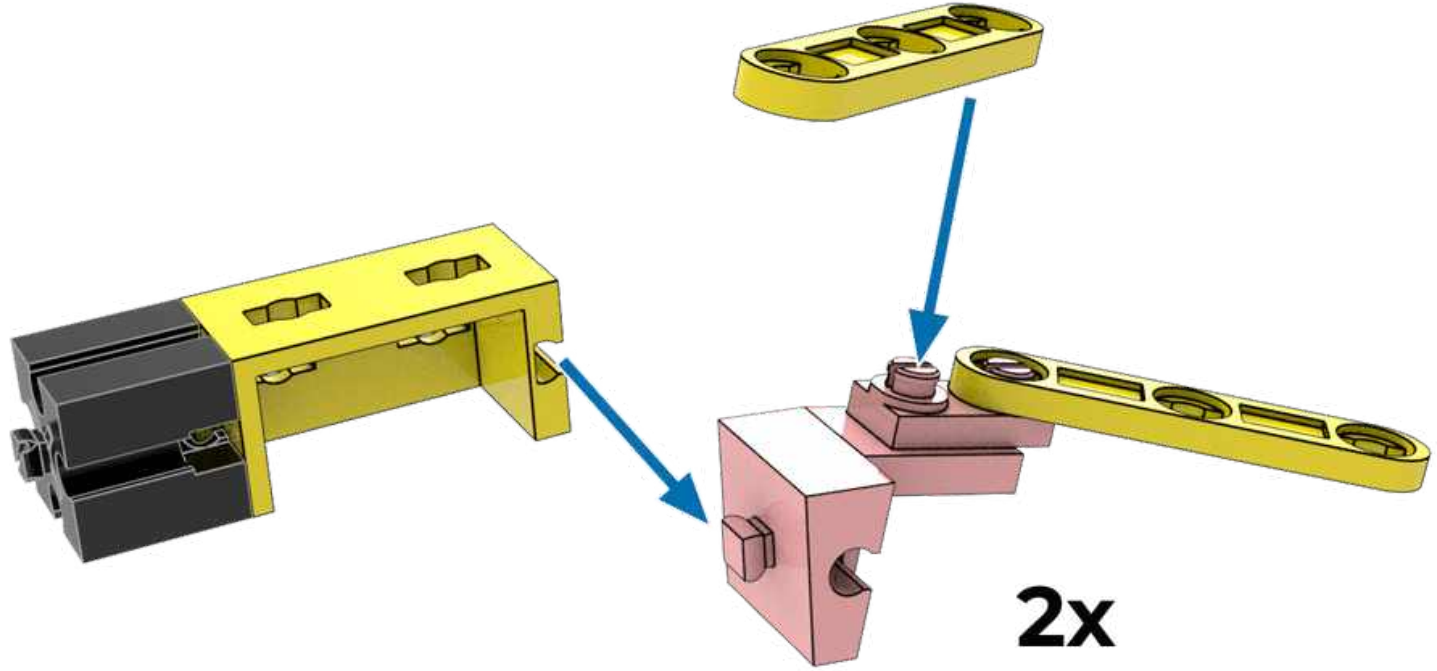
- 8  2x  1x  1x  1x  1x



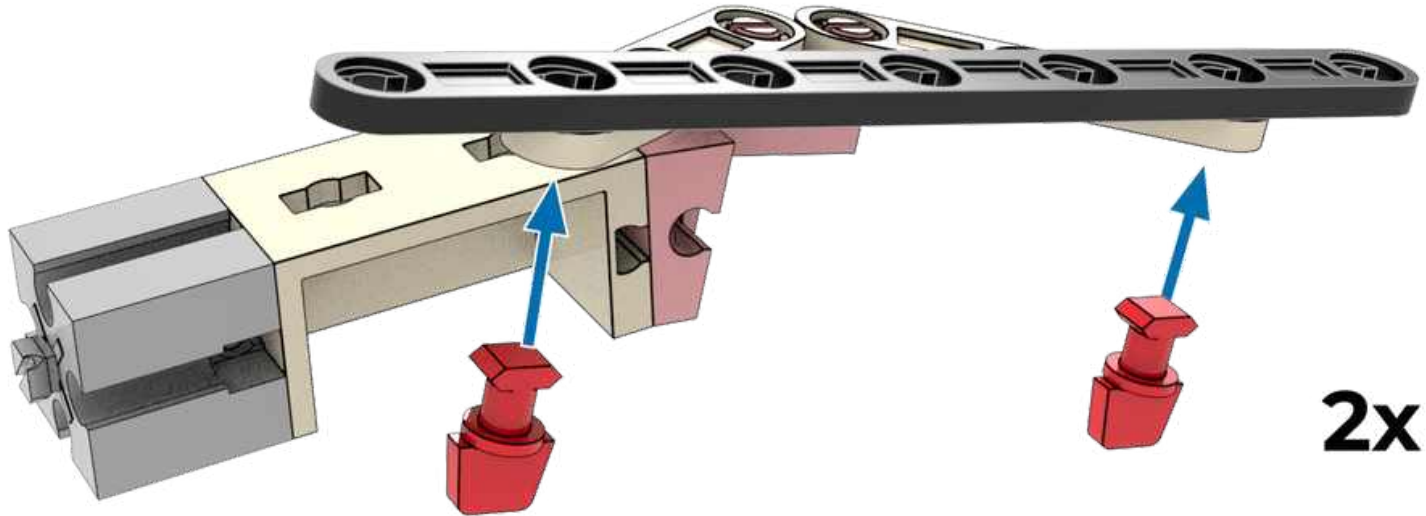

9 ^{15°} 2x 2x 2x



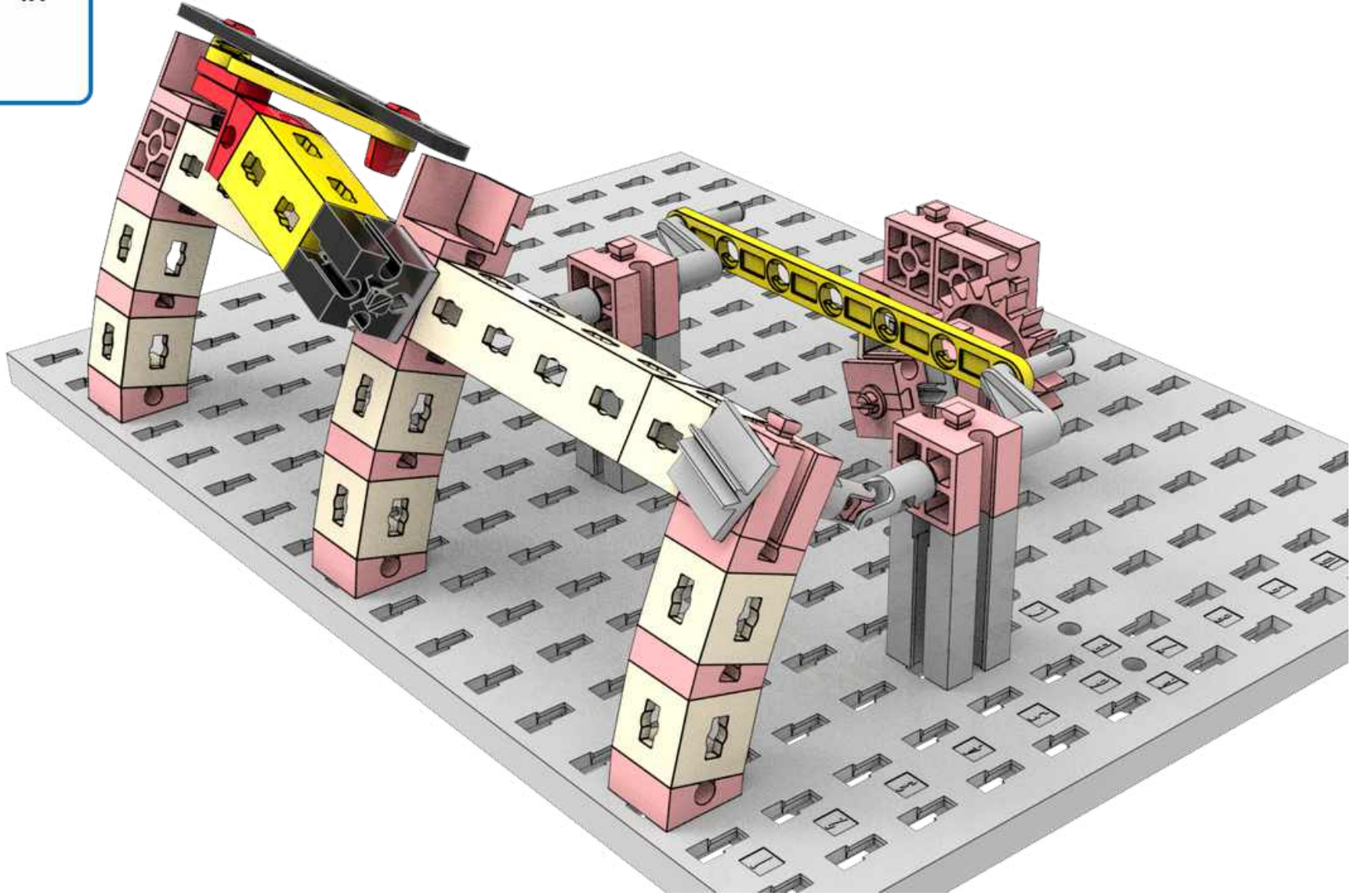
10  2x  2x  4x



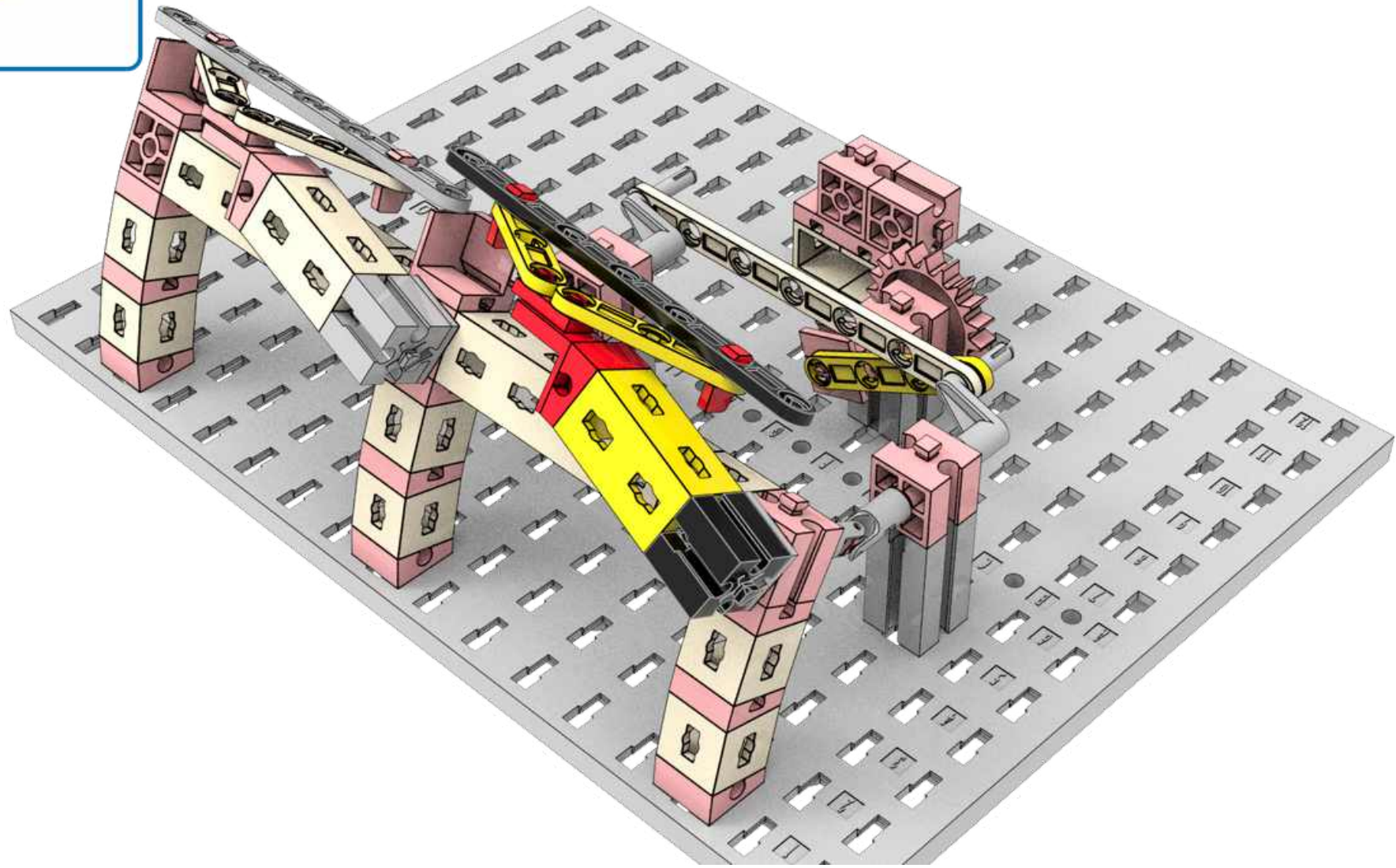
11 90 2x 4 4x



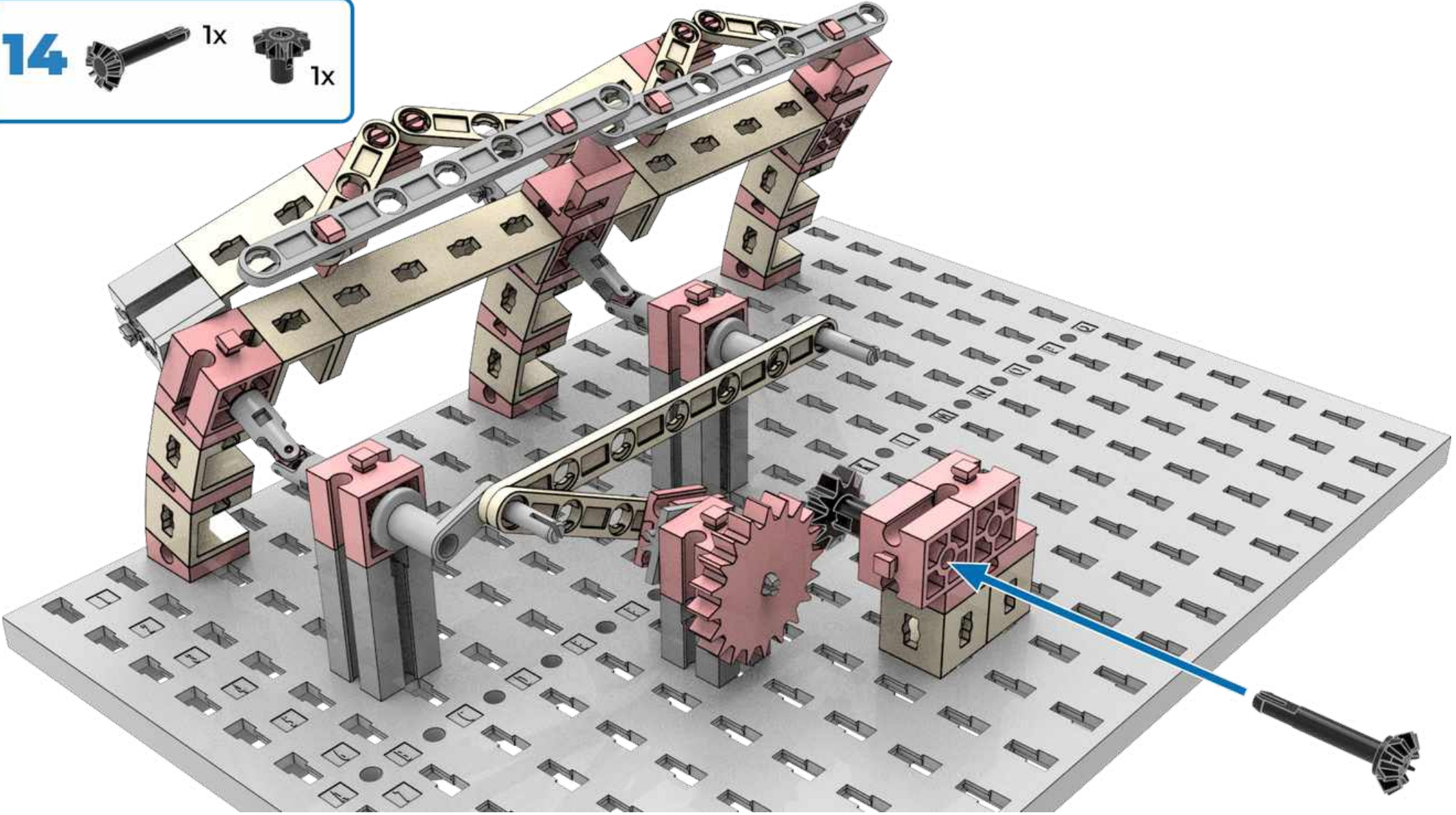
12 90 1x



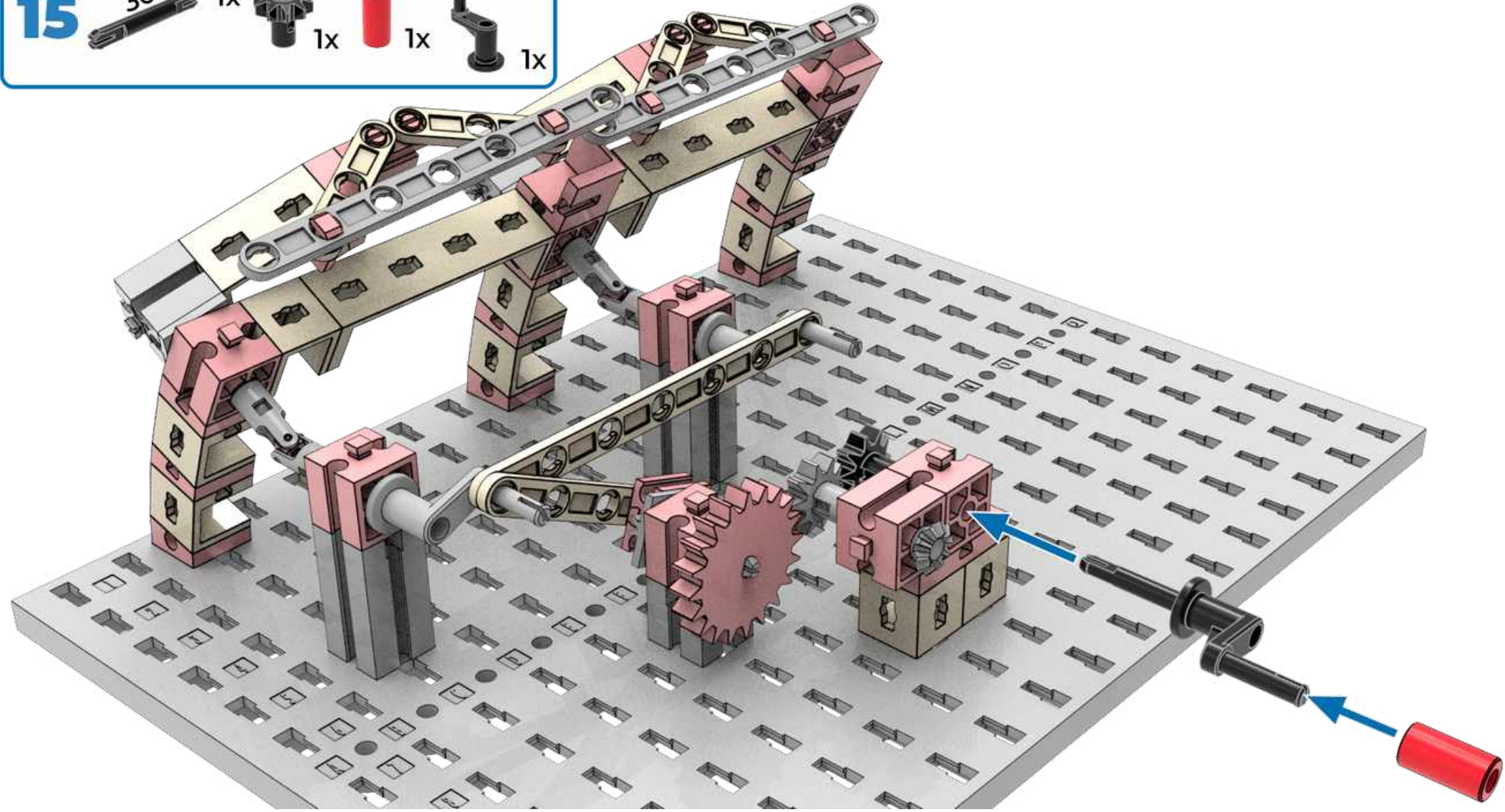
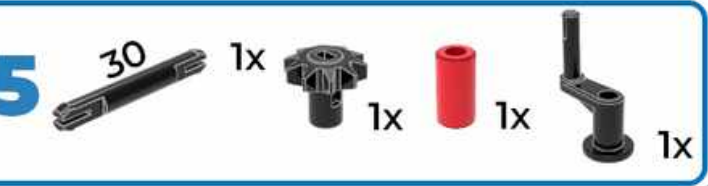
13 45 1x



14  1x  1x







15 30 1x 1x 1x 1x

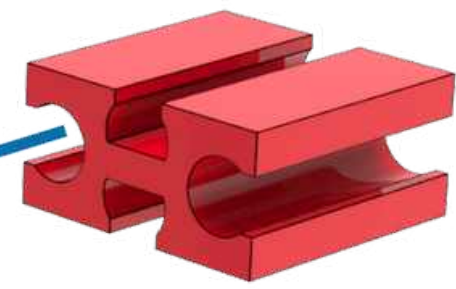
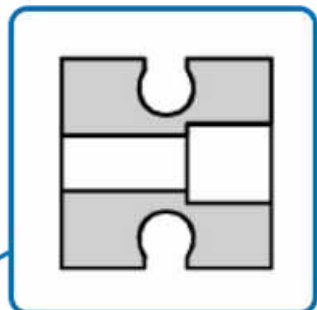
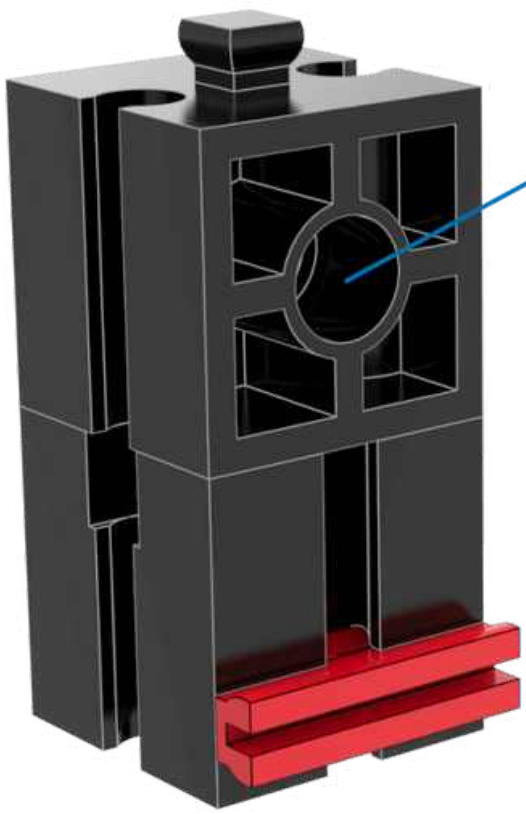



Federwaage

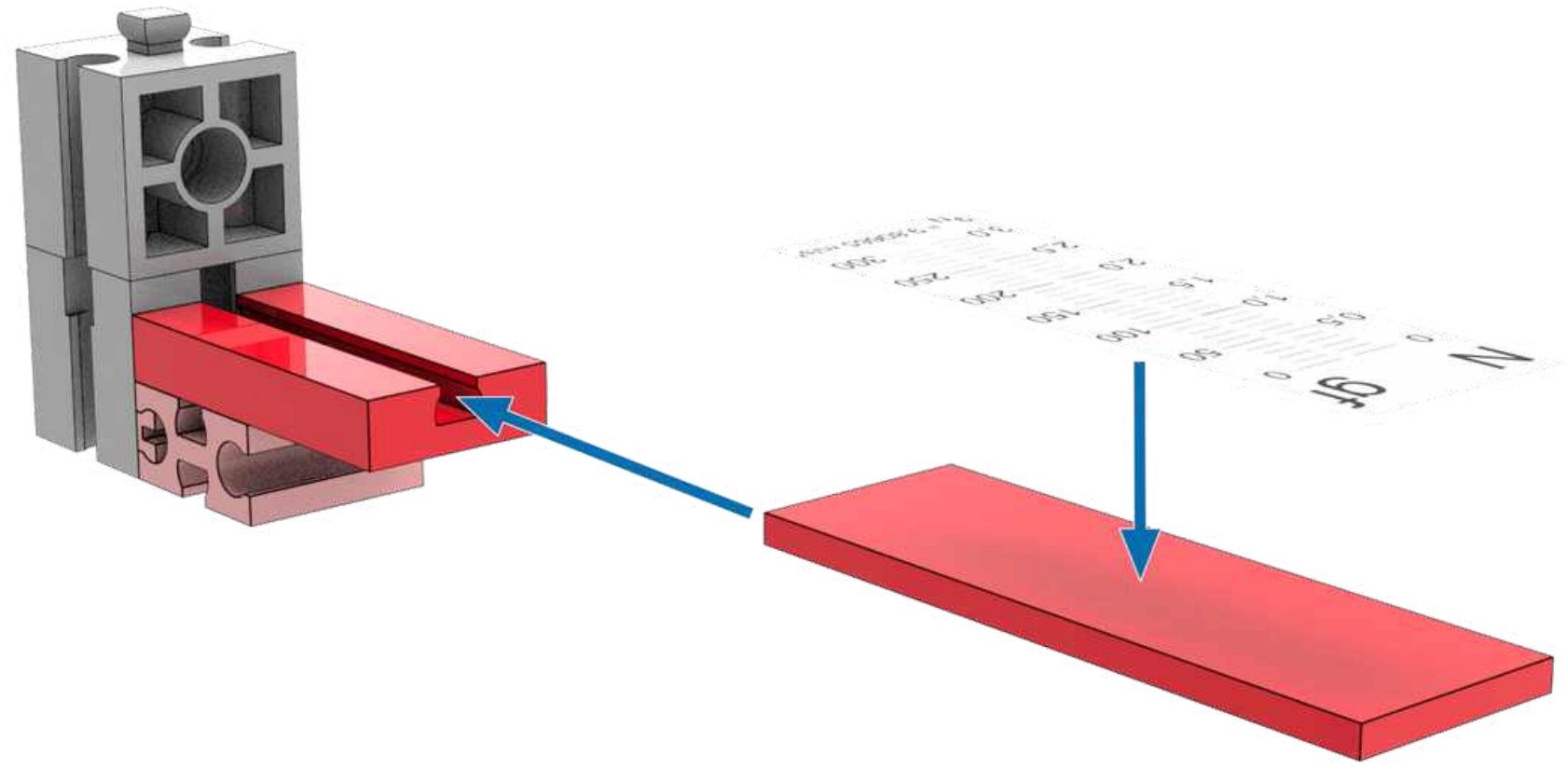


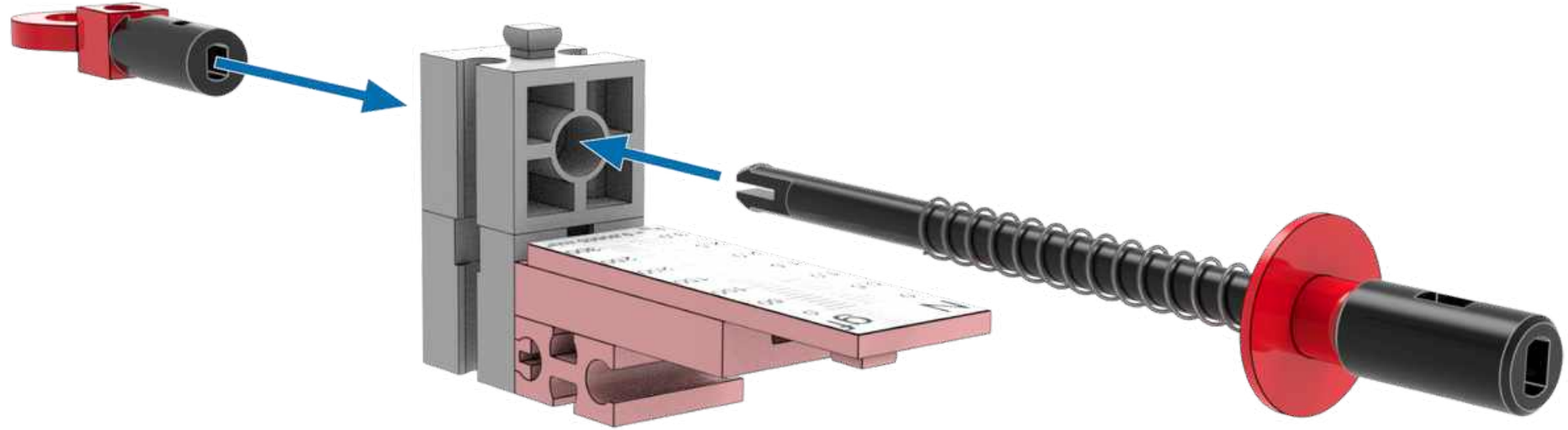
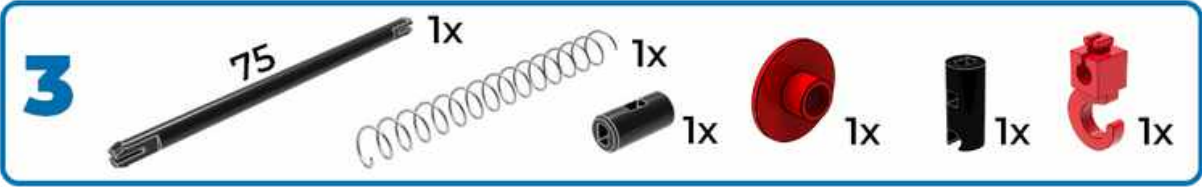


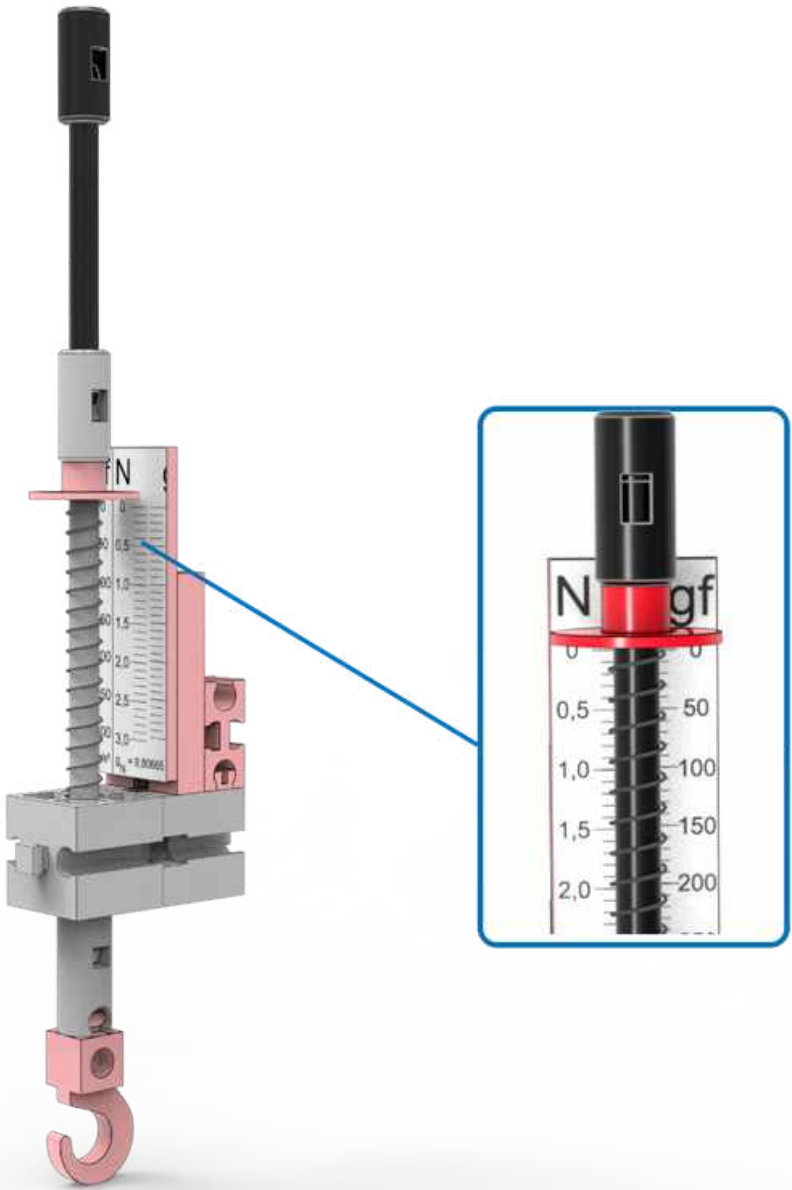
- 1**  1x  1x  1x  1x



2  1x  1x  1x



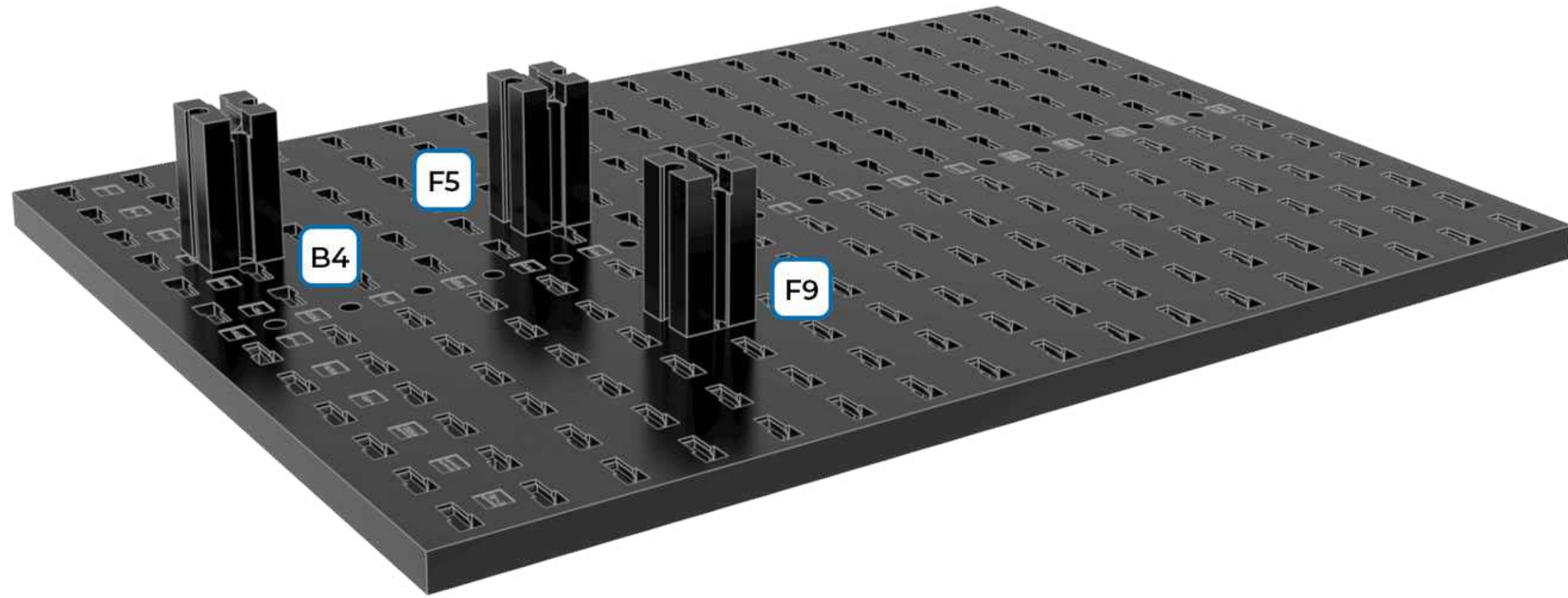
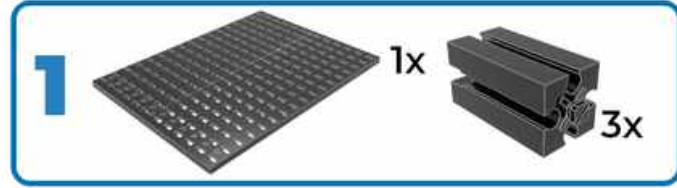




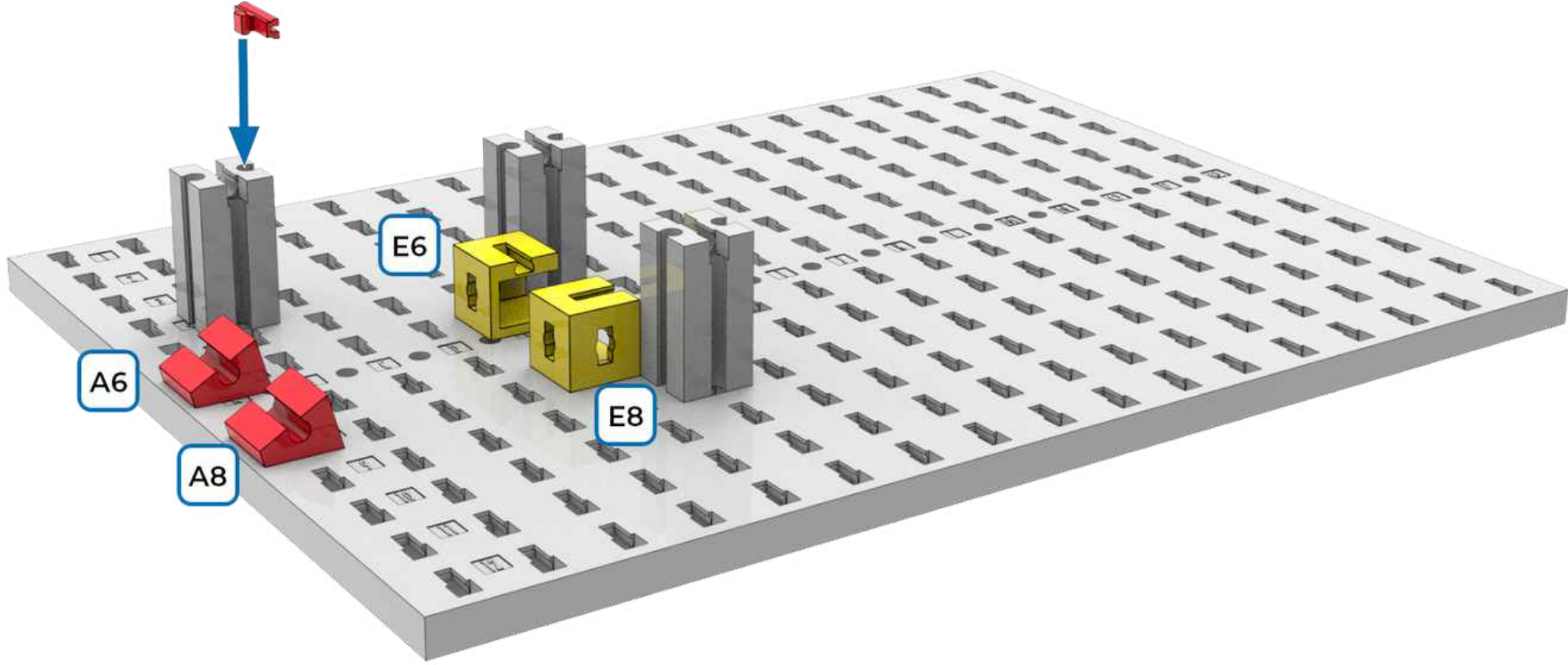
Flaschenzug



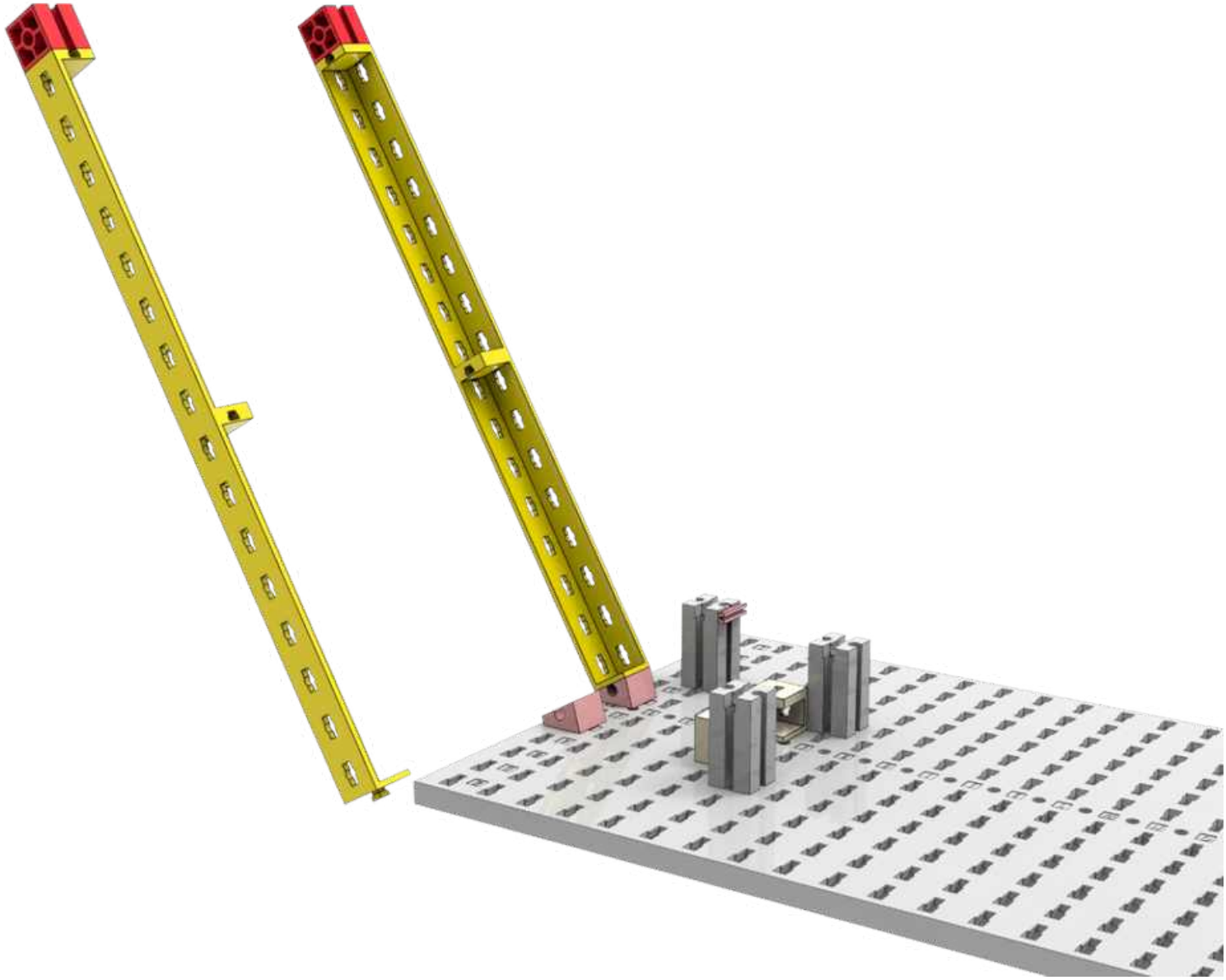


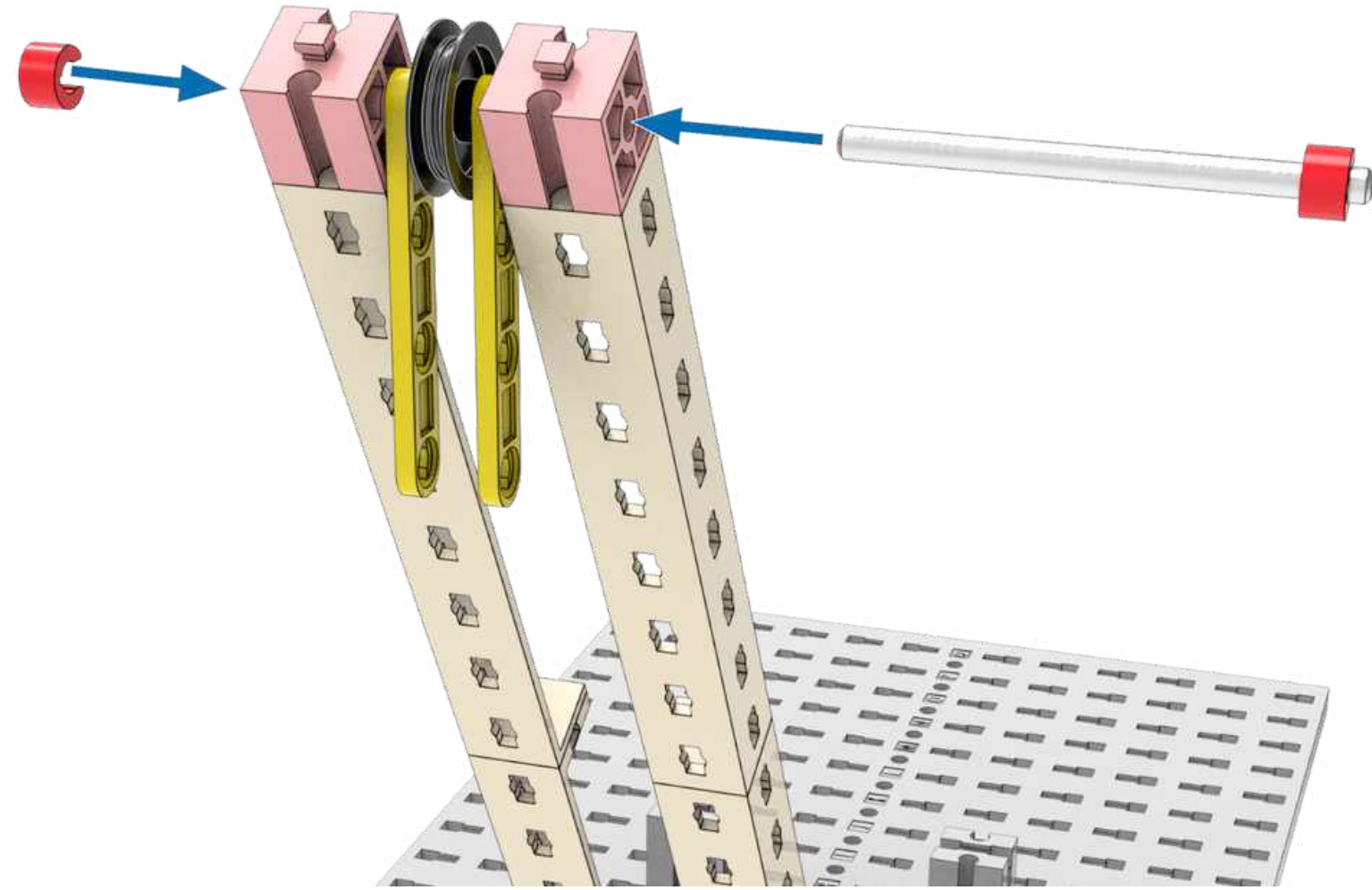
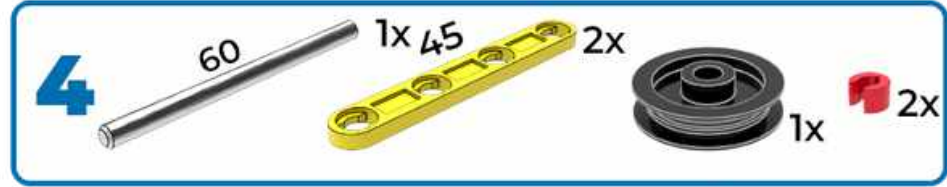


2 ^{30°} 2x 2x 2x 1x

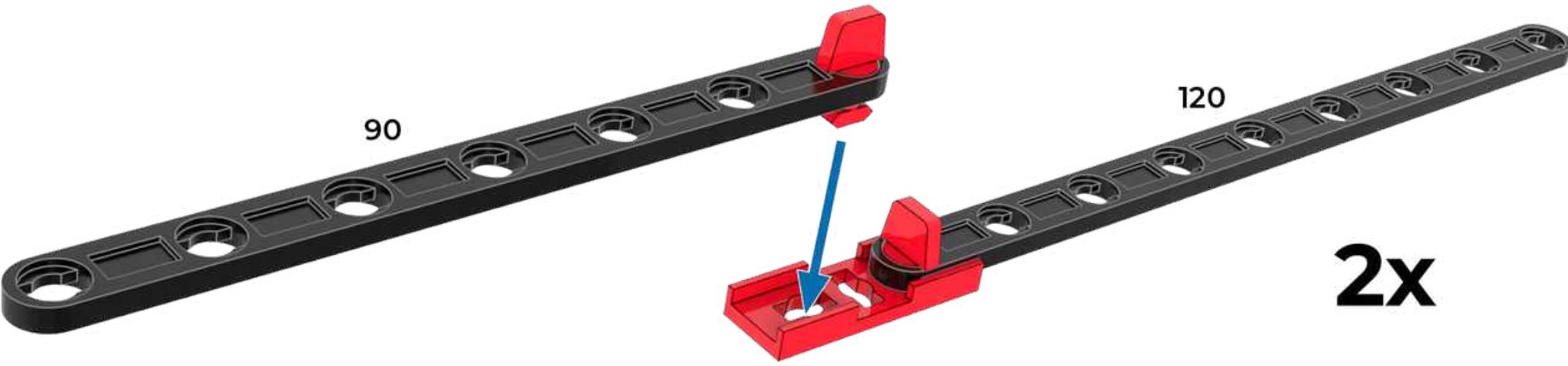




3  4x 2x

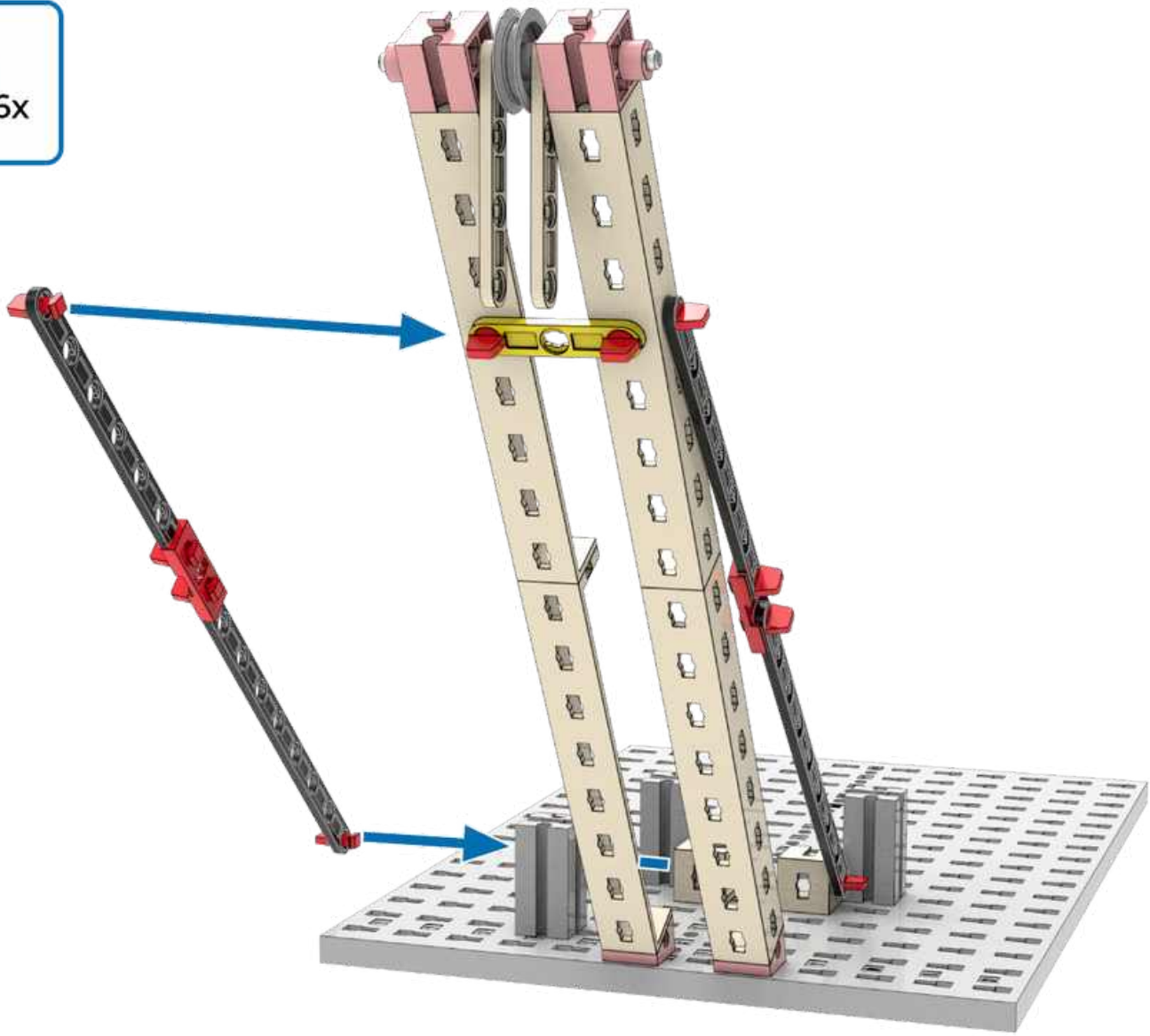


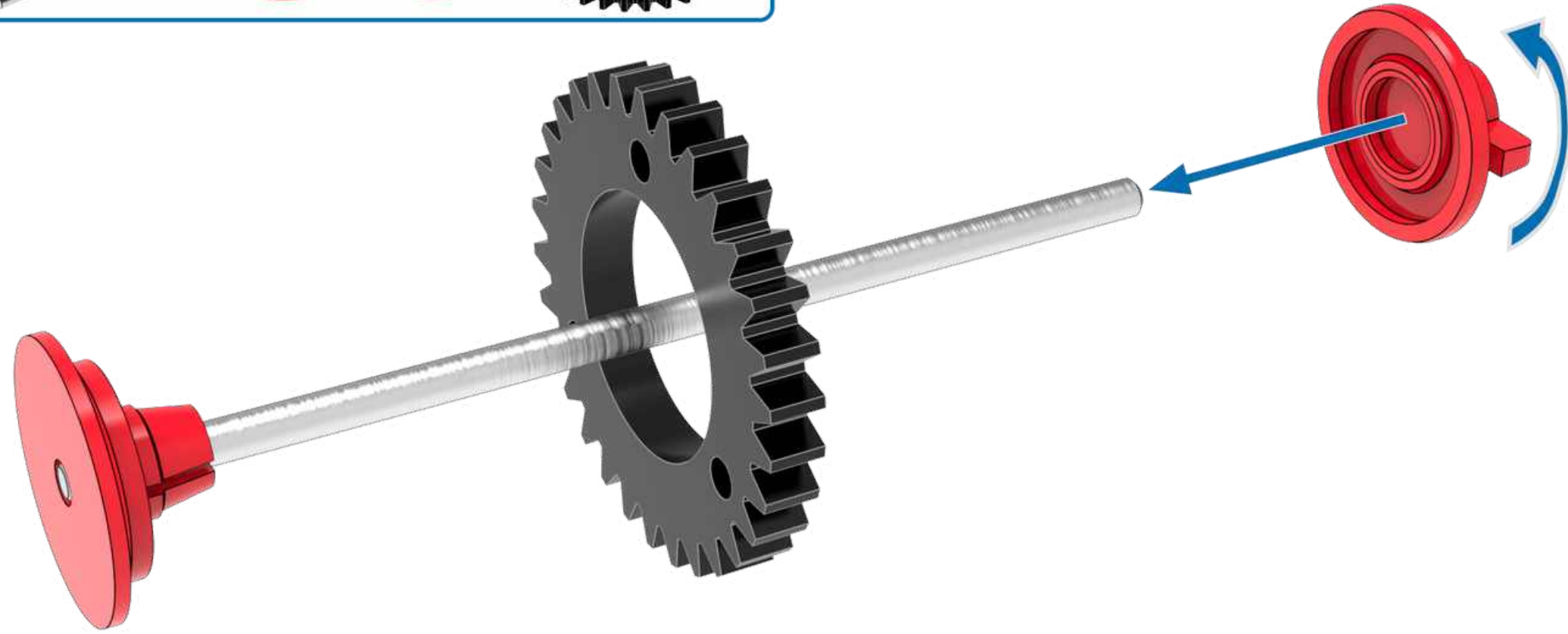
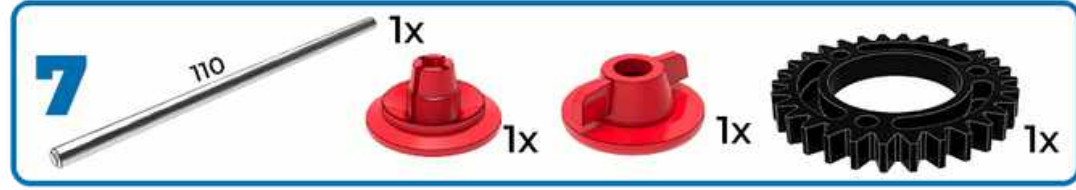


5  2x 90  2x 120  2x  4x

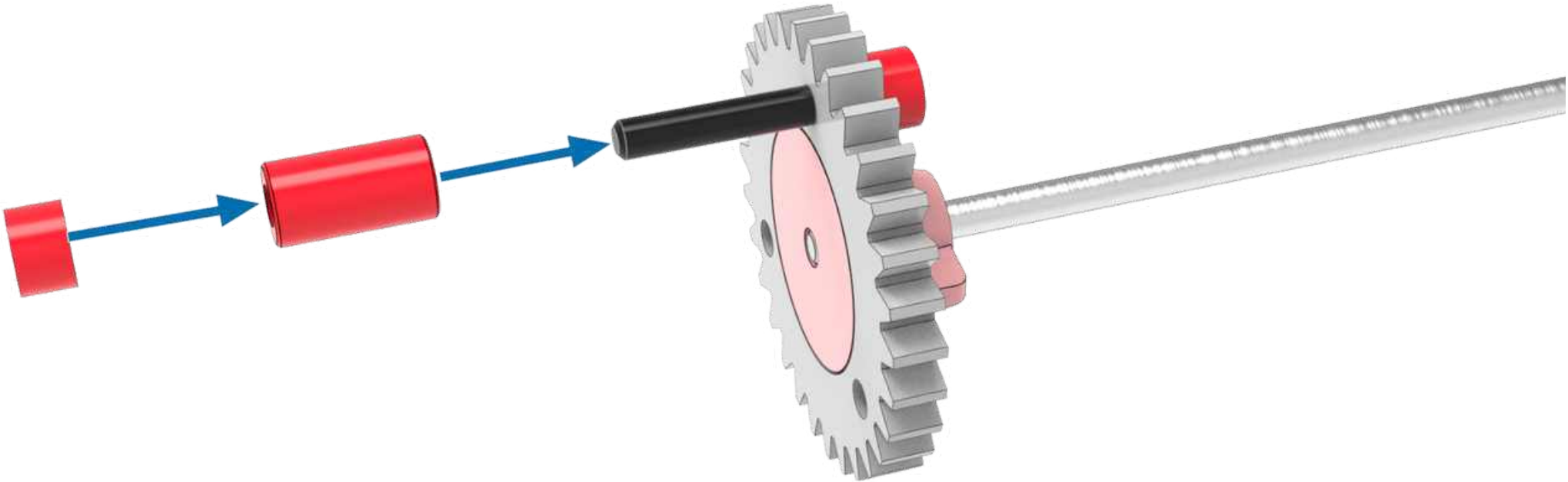






6  1x  6x

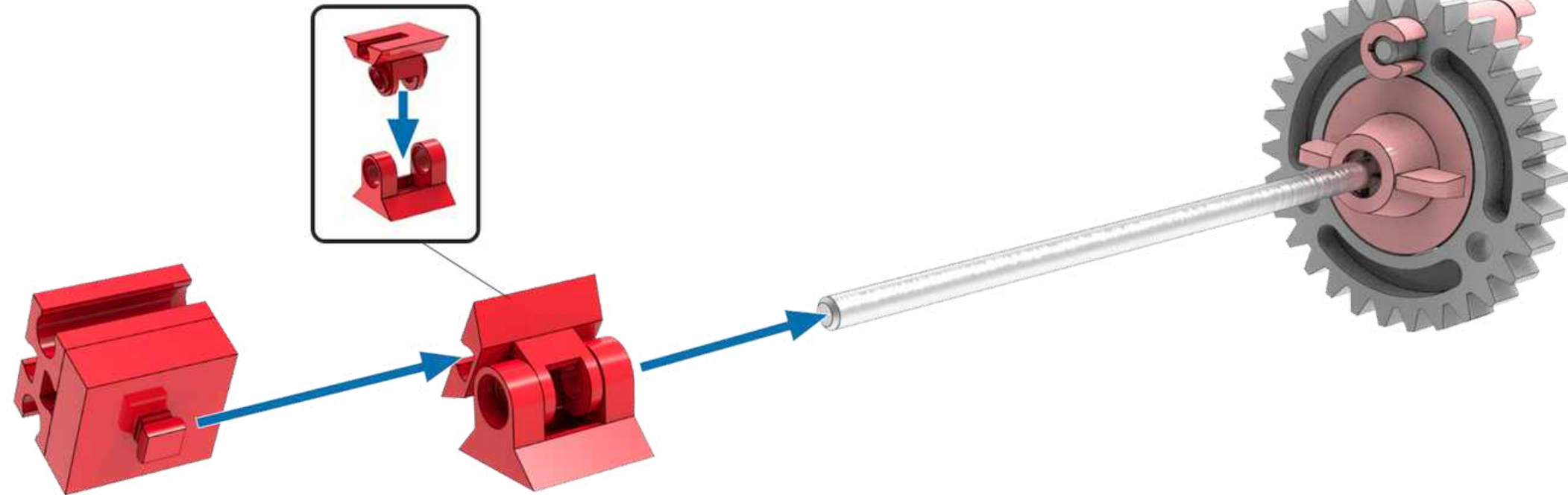








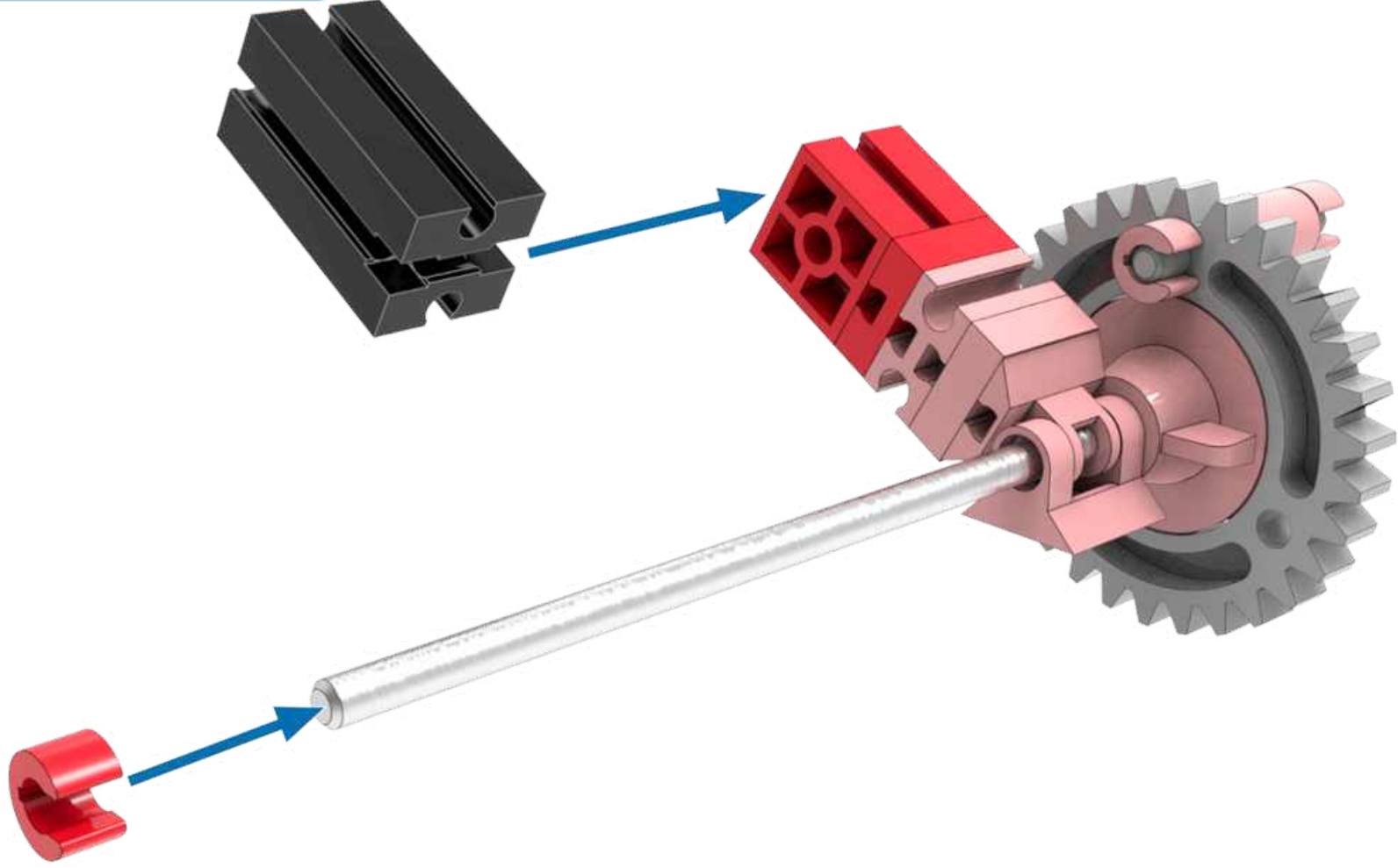
8 30 1x 1x 2x



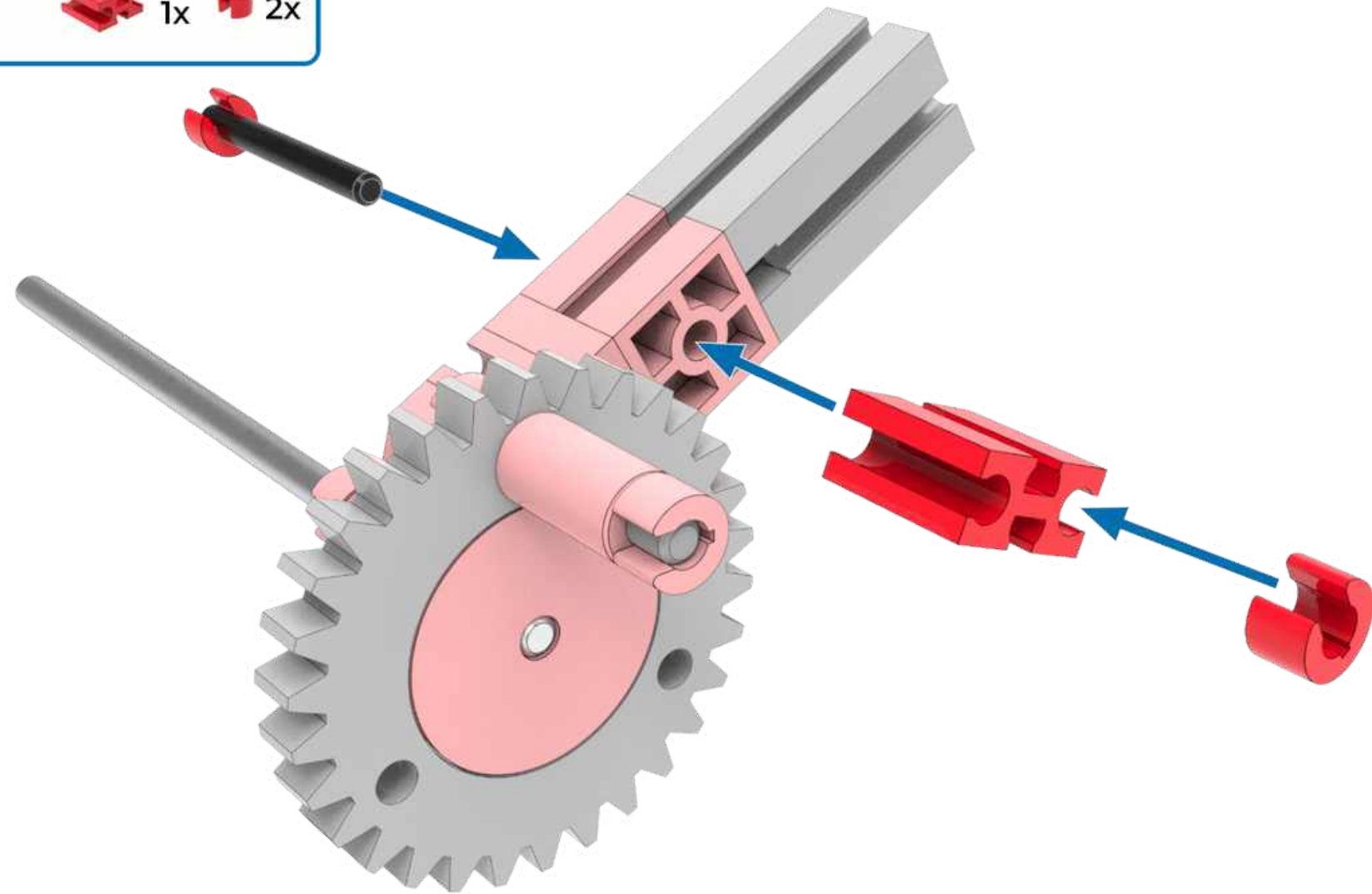
- 9  1x  1x  1x  1x





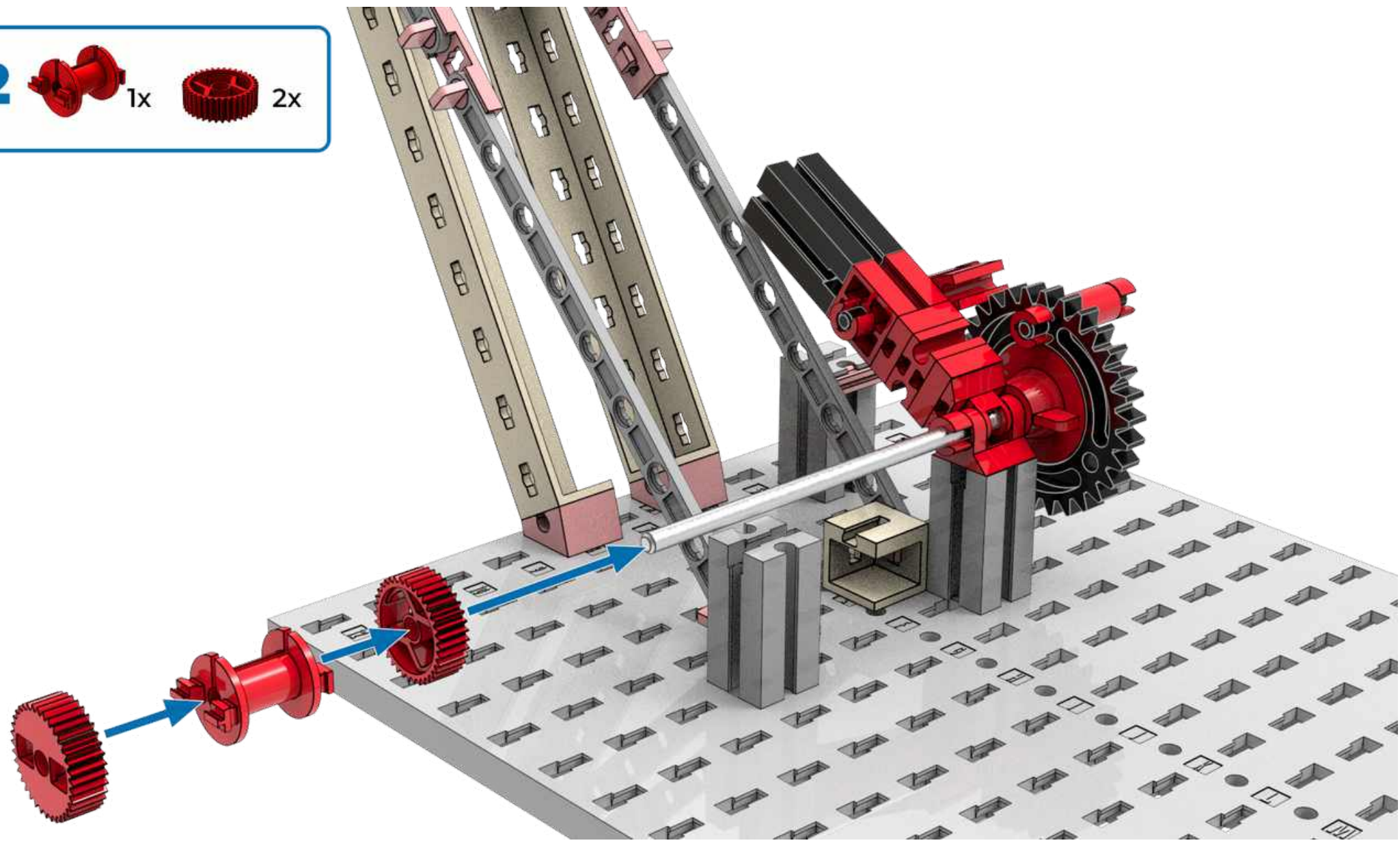
- 10**  1x  1x  1x  1x

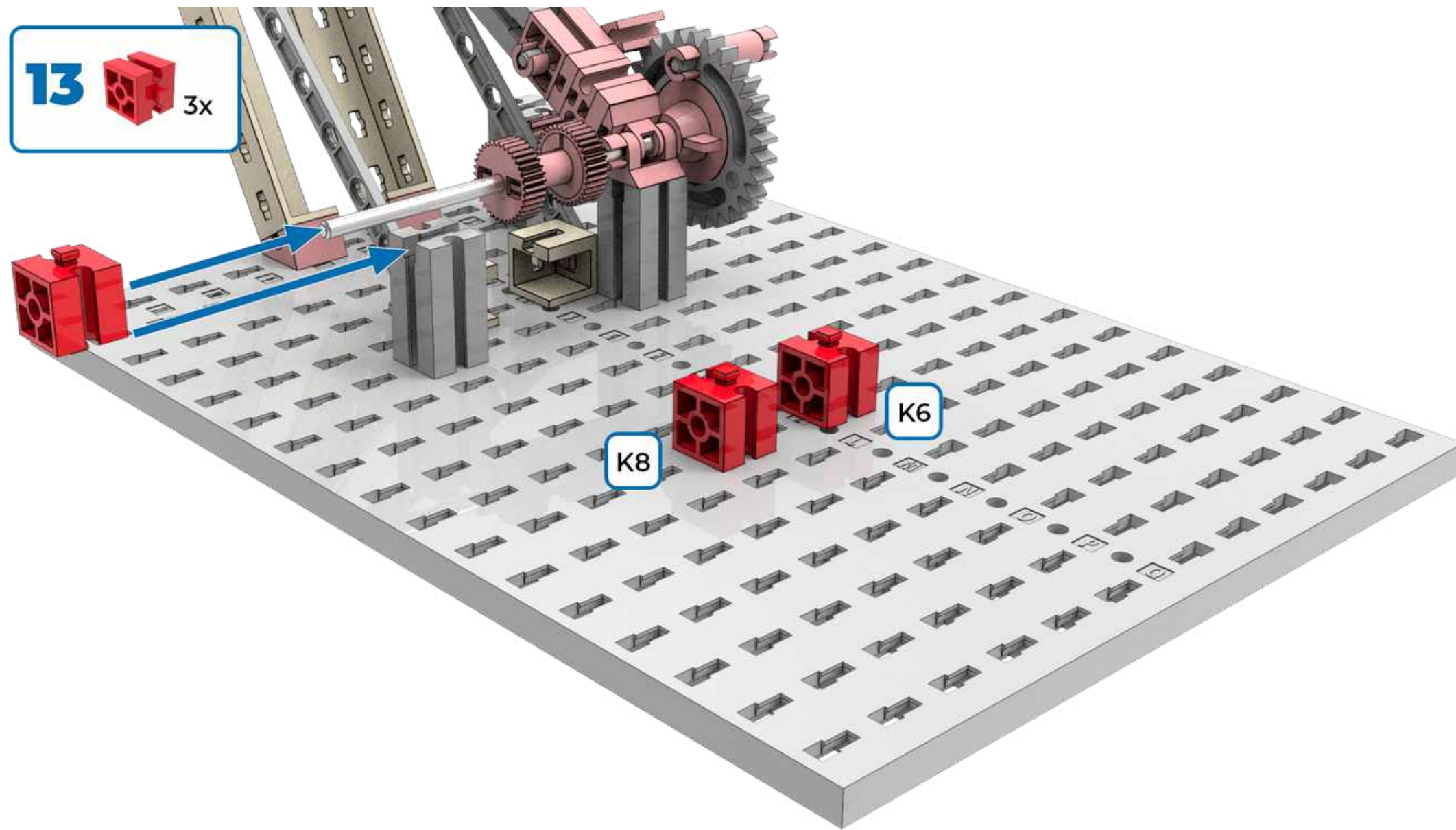





11 30 1x 1x 2x

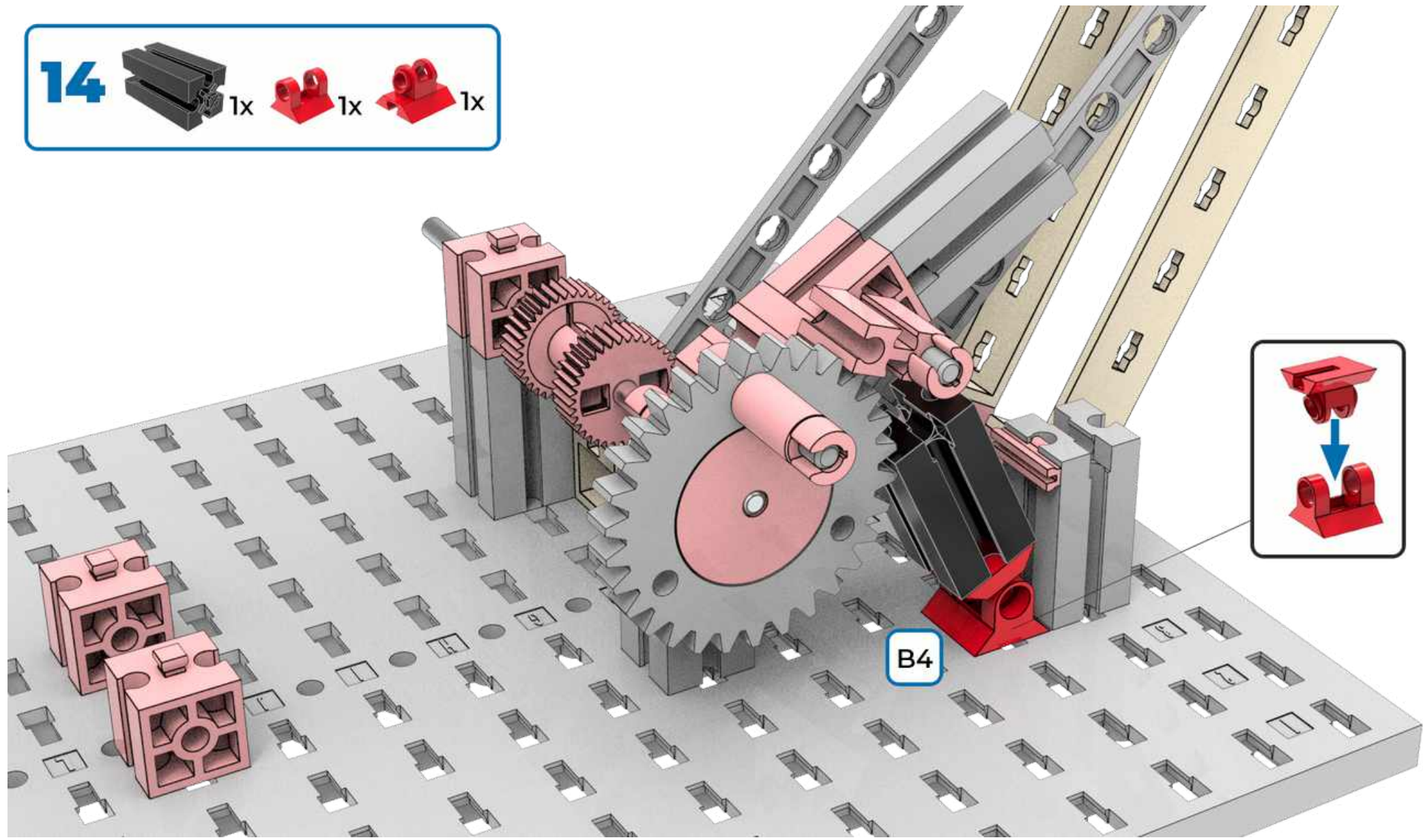





12  1x  2x

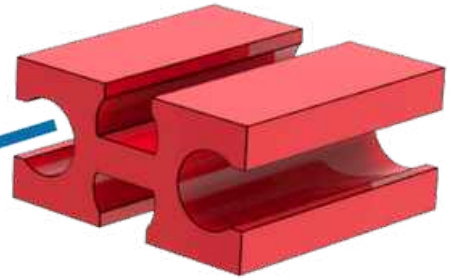
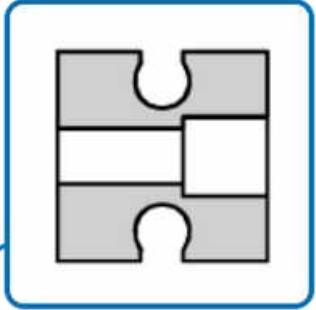
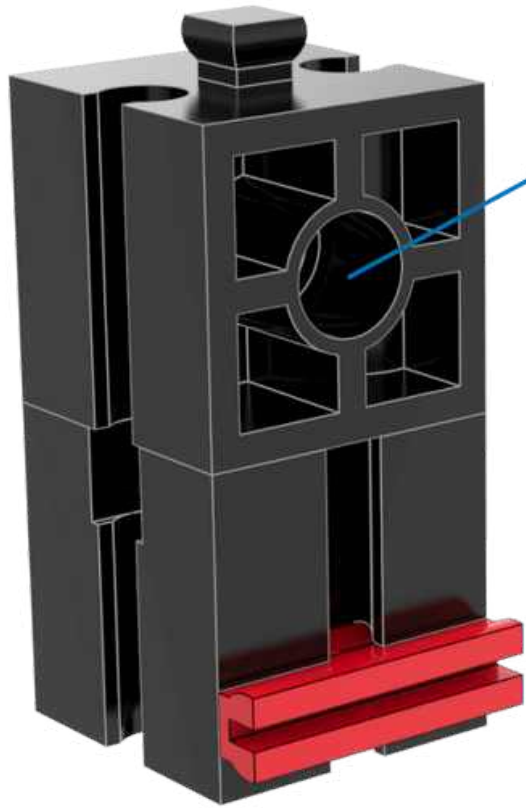




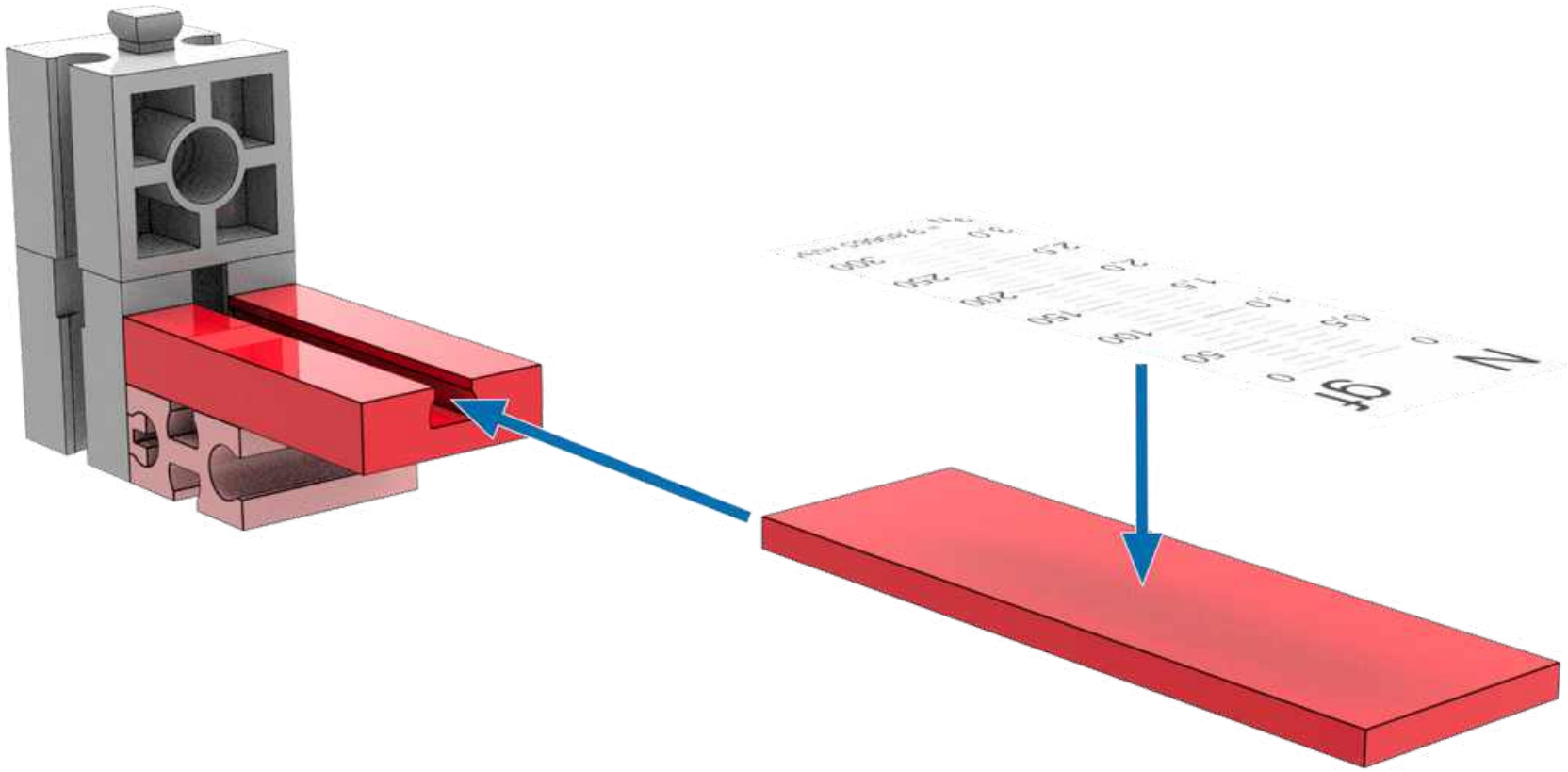
- 14**  1x  1x  1x



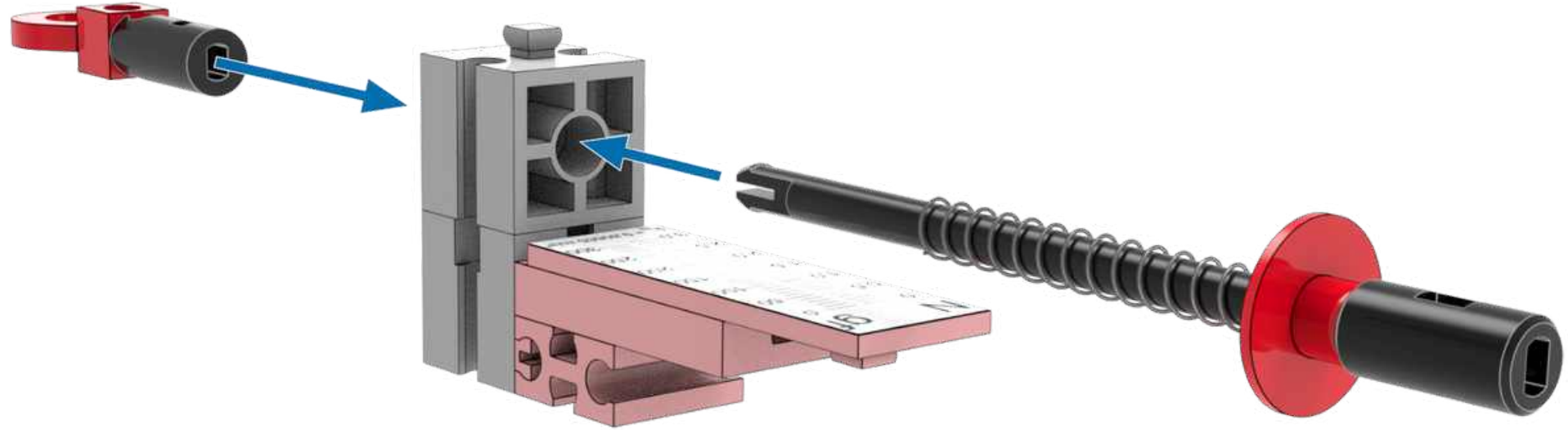
- 15**  1x  1x  1x  1x



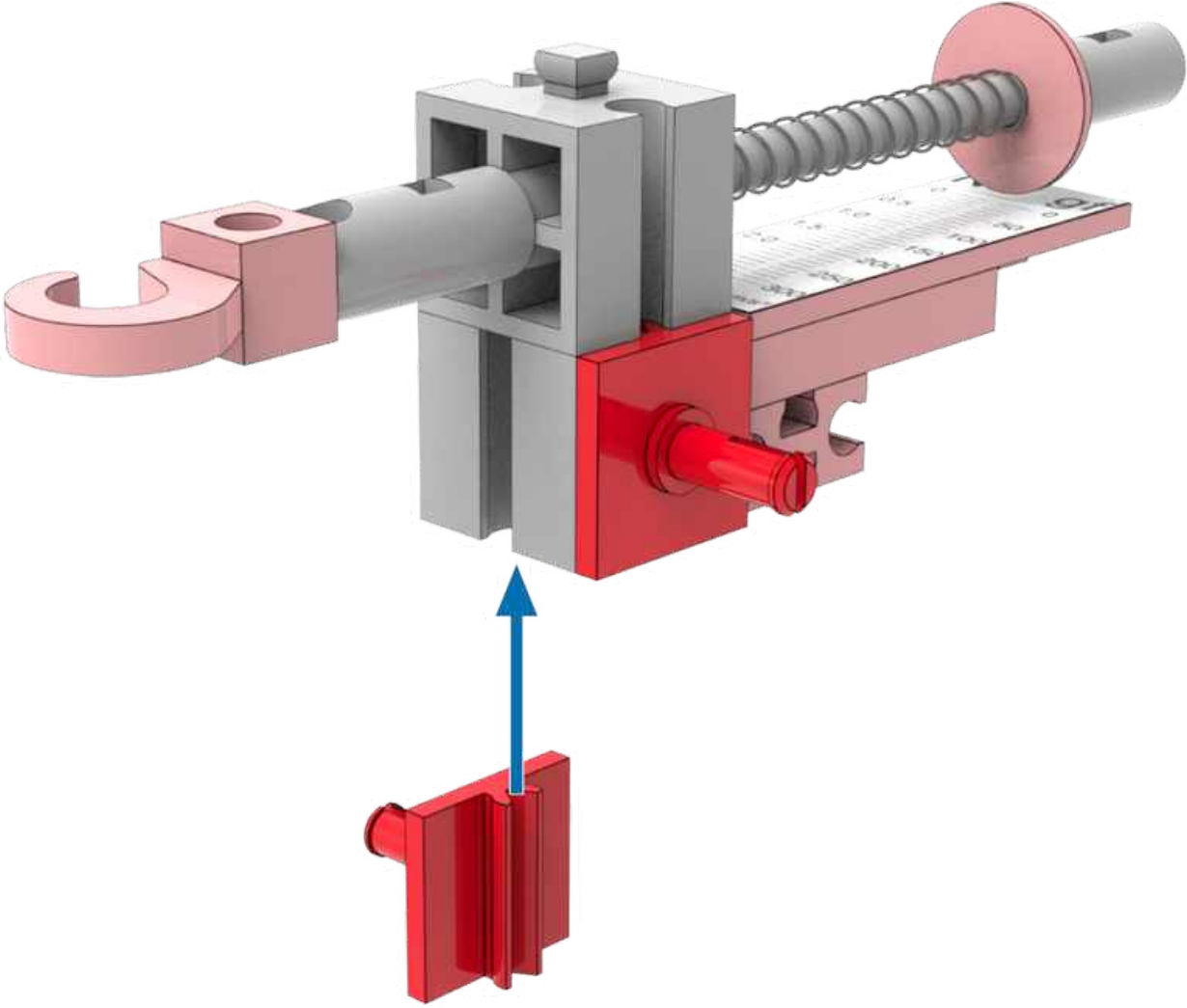
16  1x  1x  1x





17 75 1x
1x
1x 1x 1x 1x

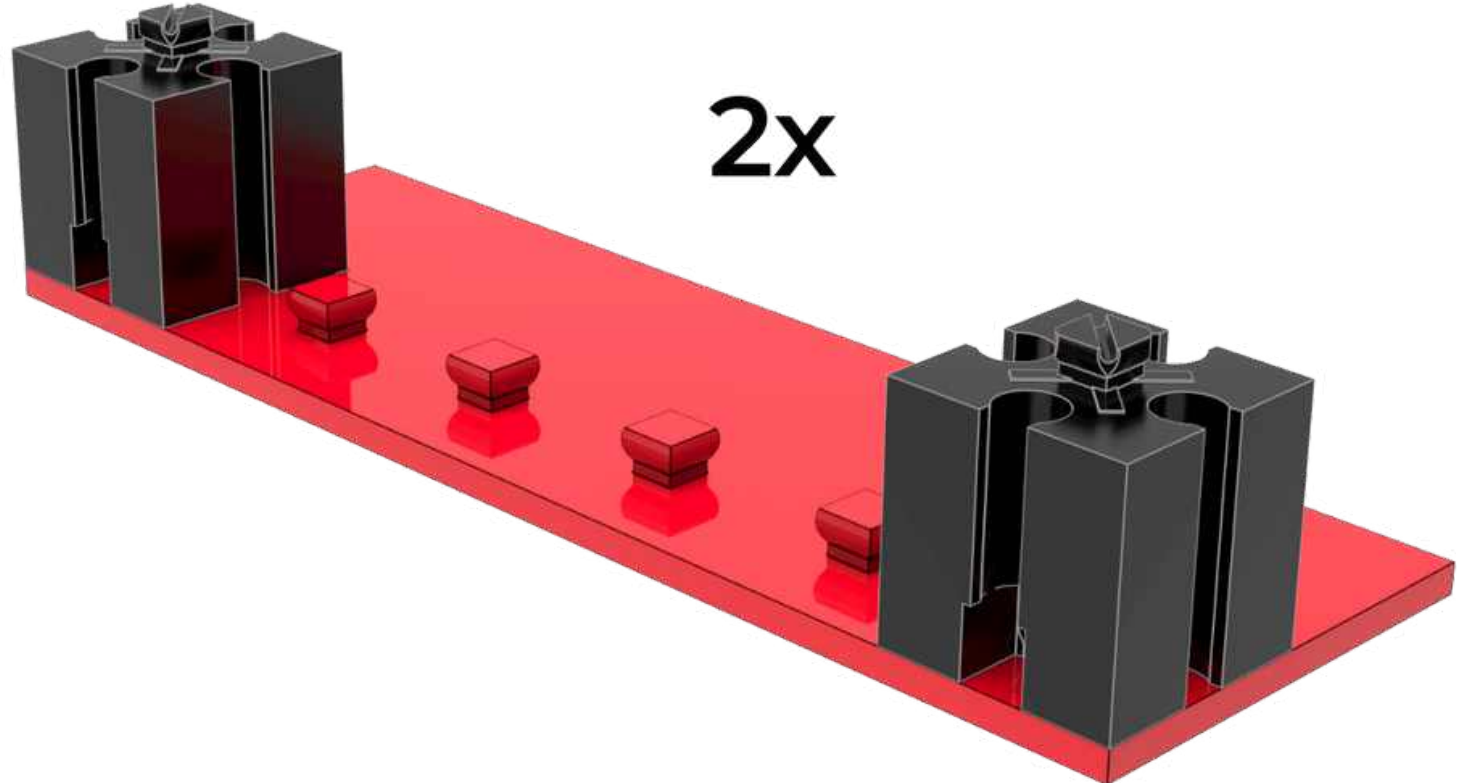
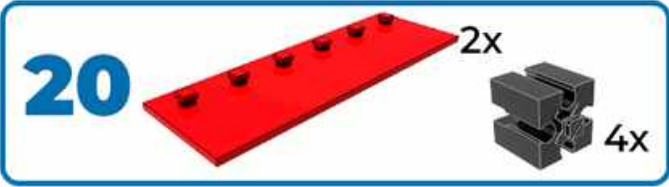


18  2x

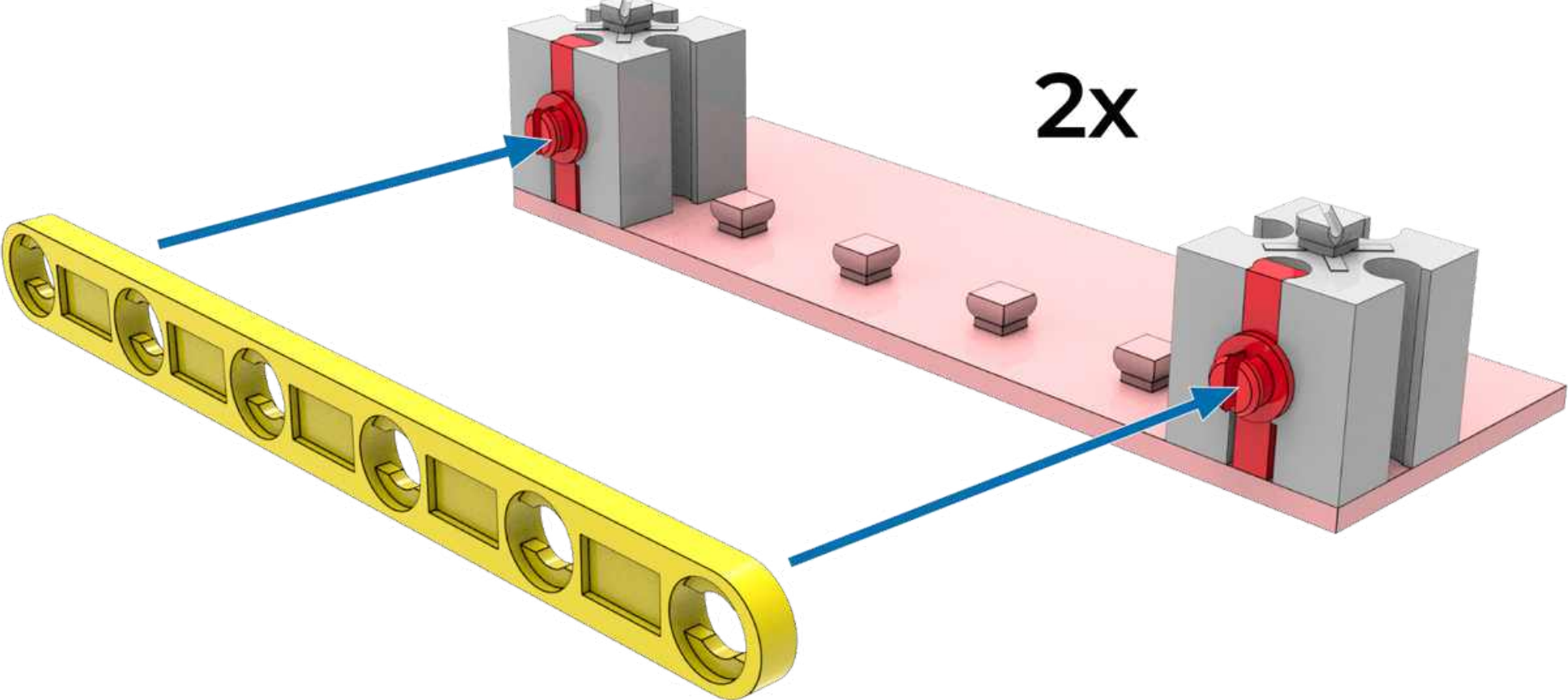


19  2x  2x

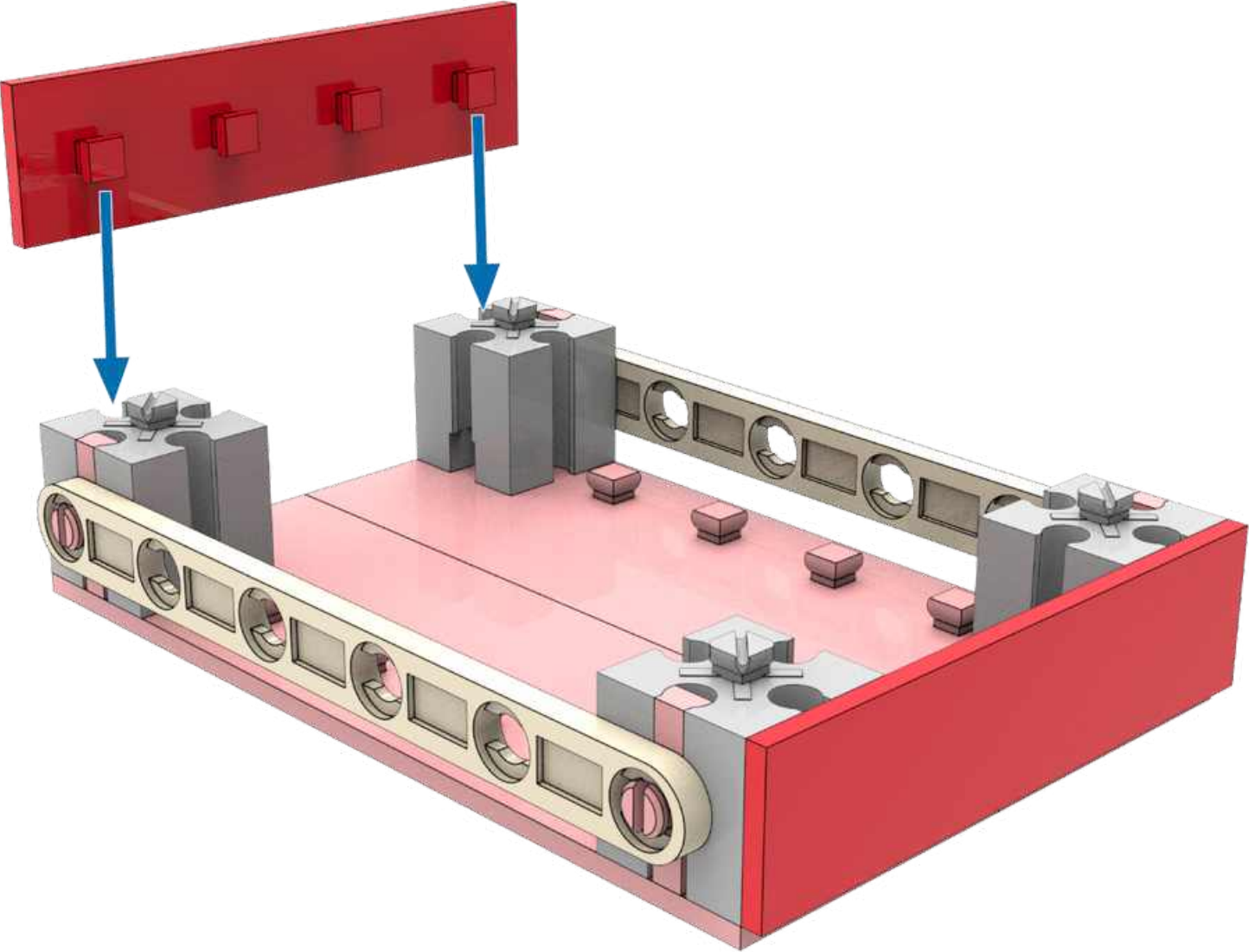




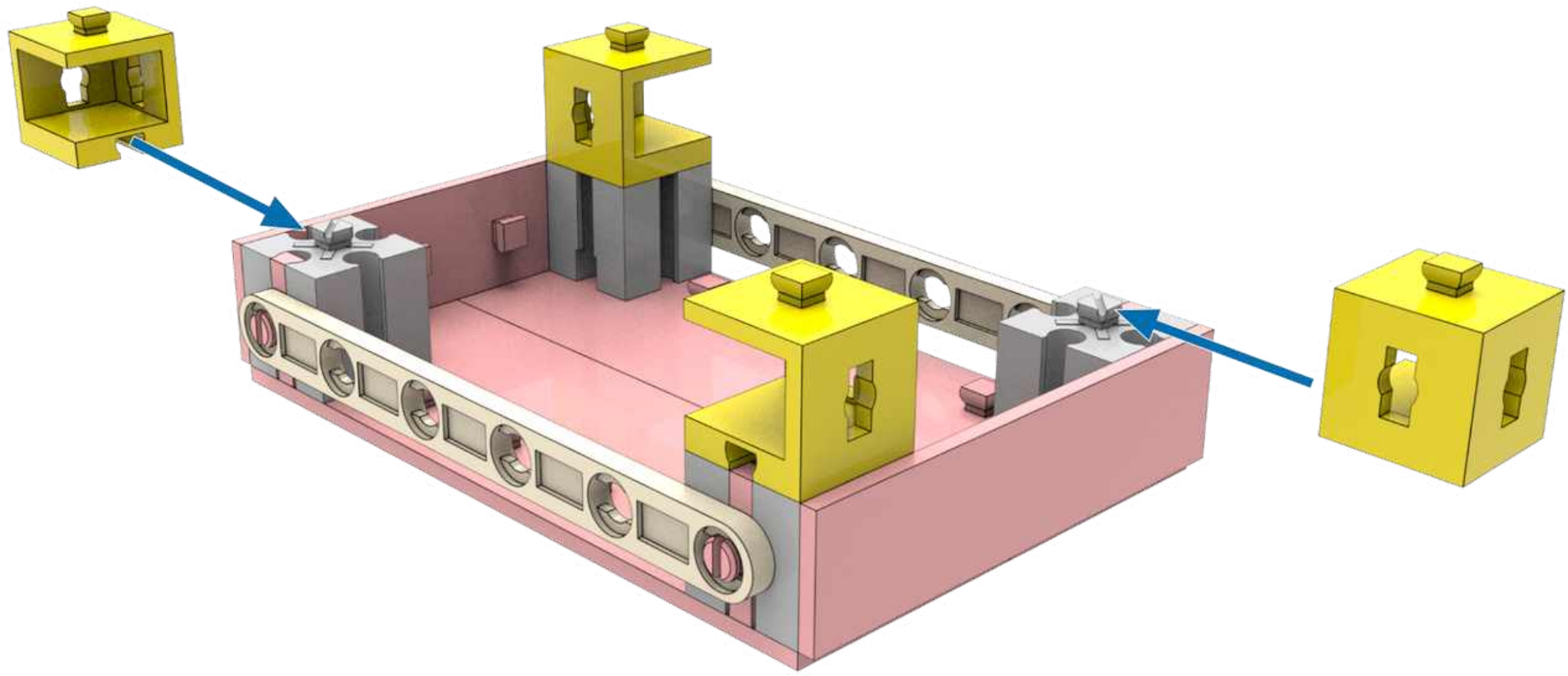
21 75 2x
4x




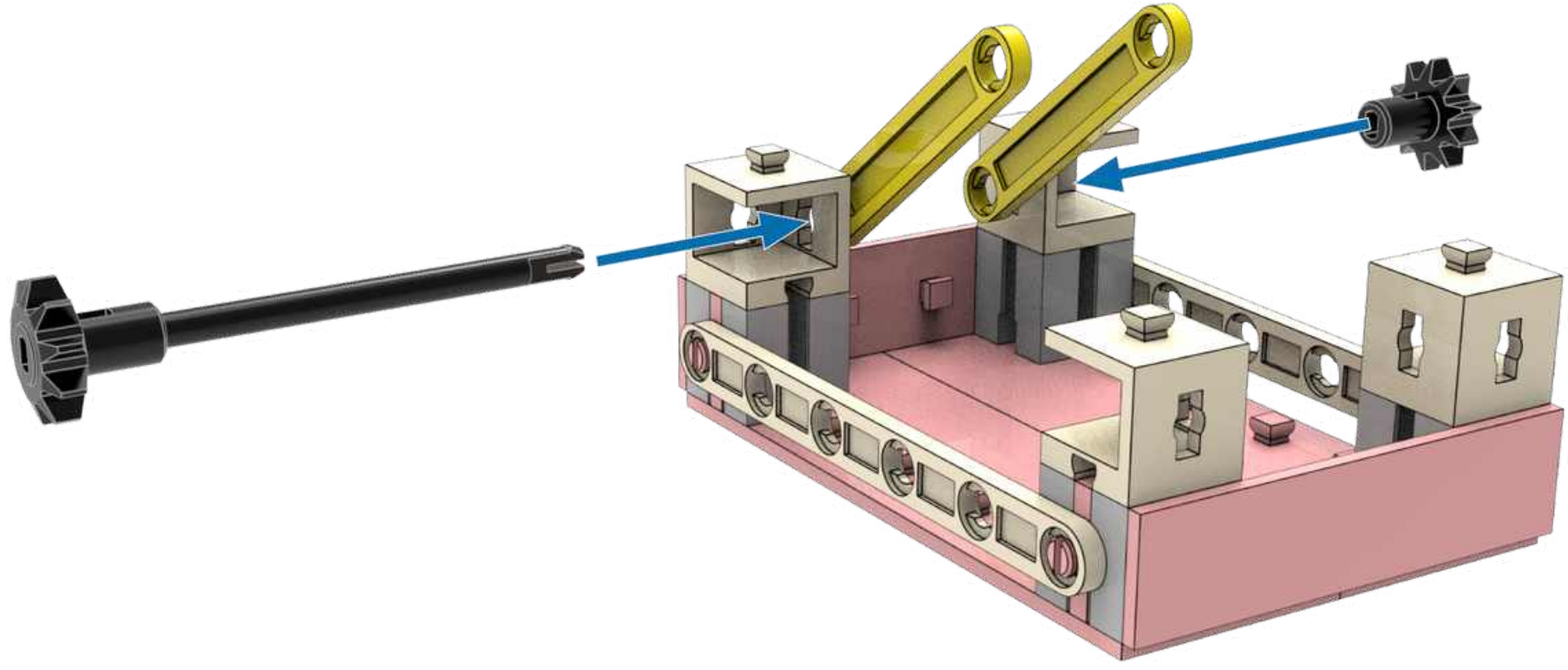
22  2x




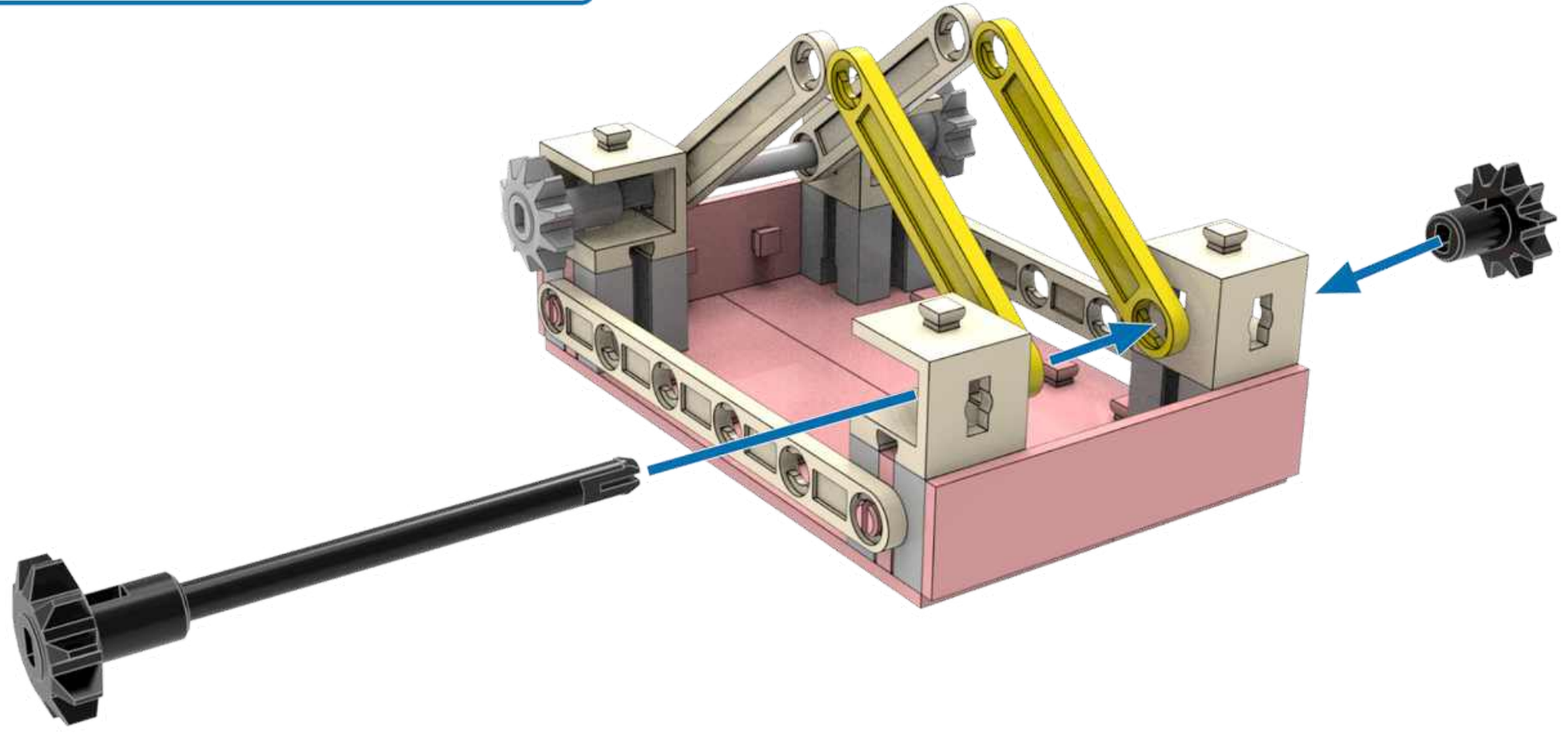
23  4x





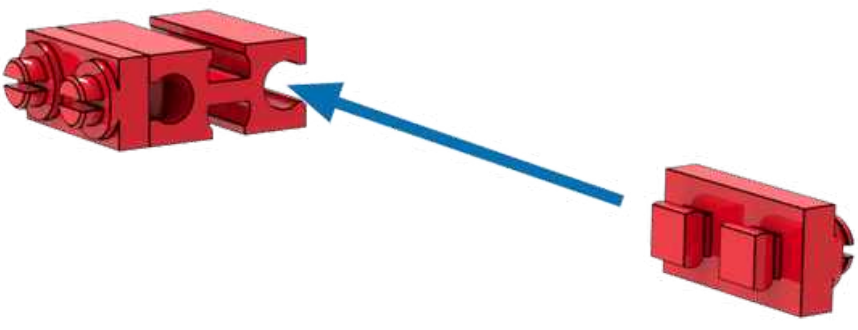
24 60 1x 42,4 2x  2x



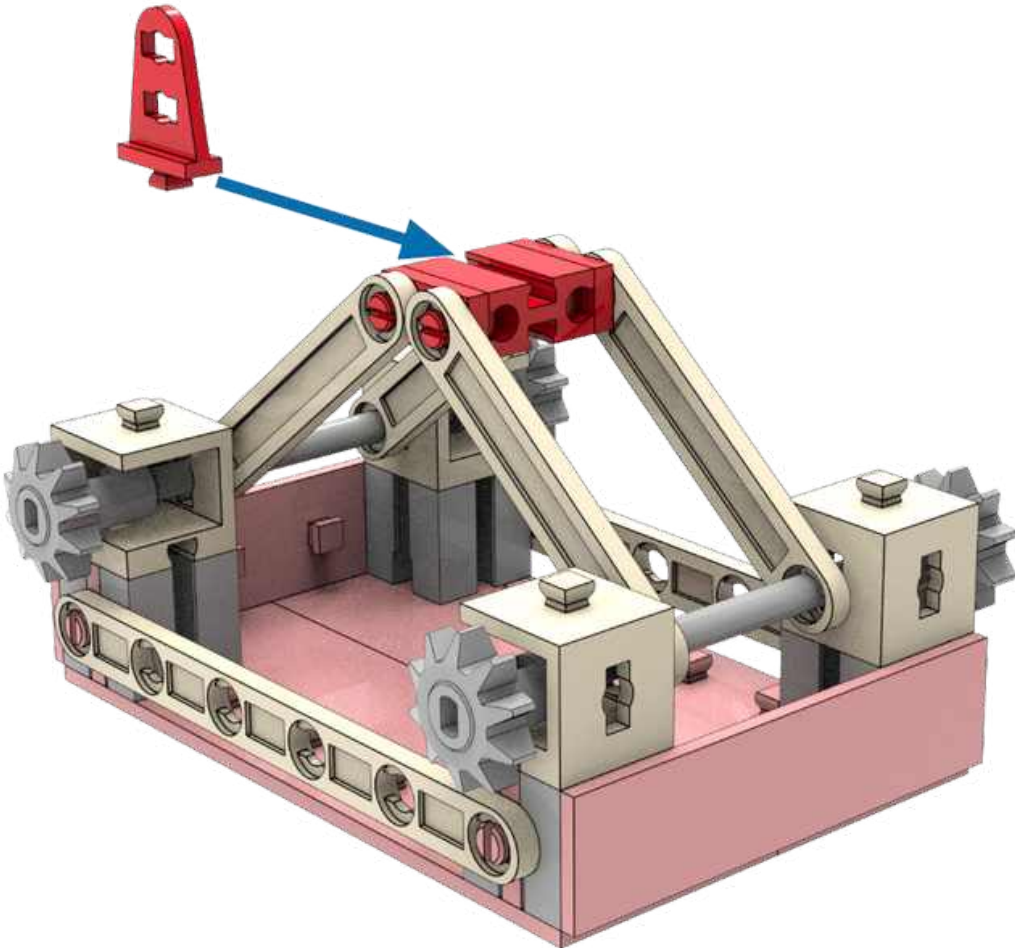
25 60 1x 42,4 2x  2x








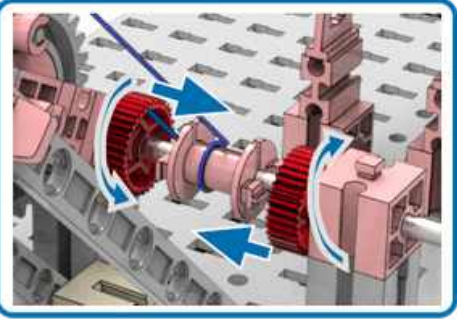
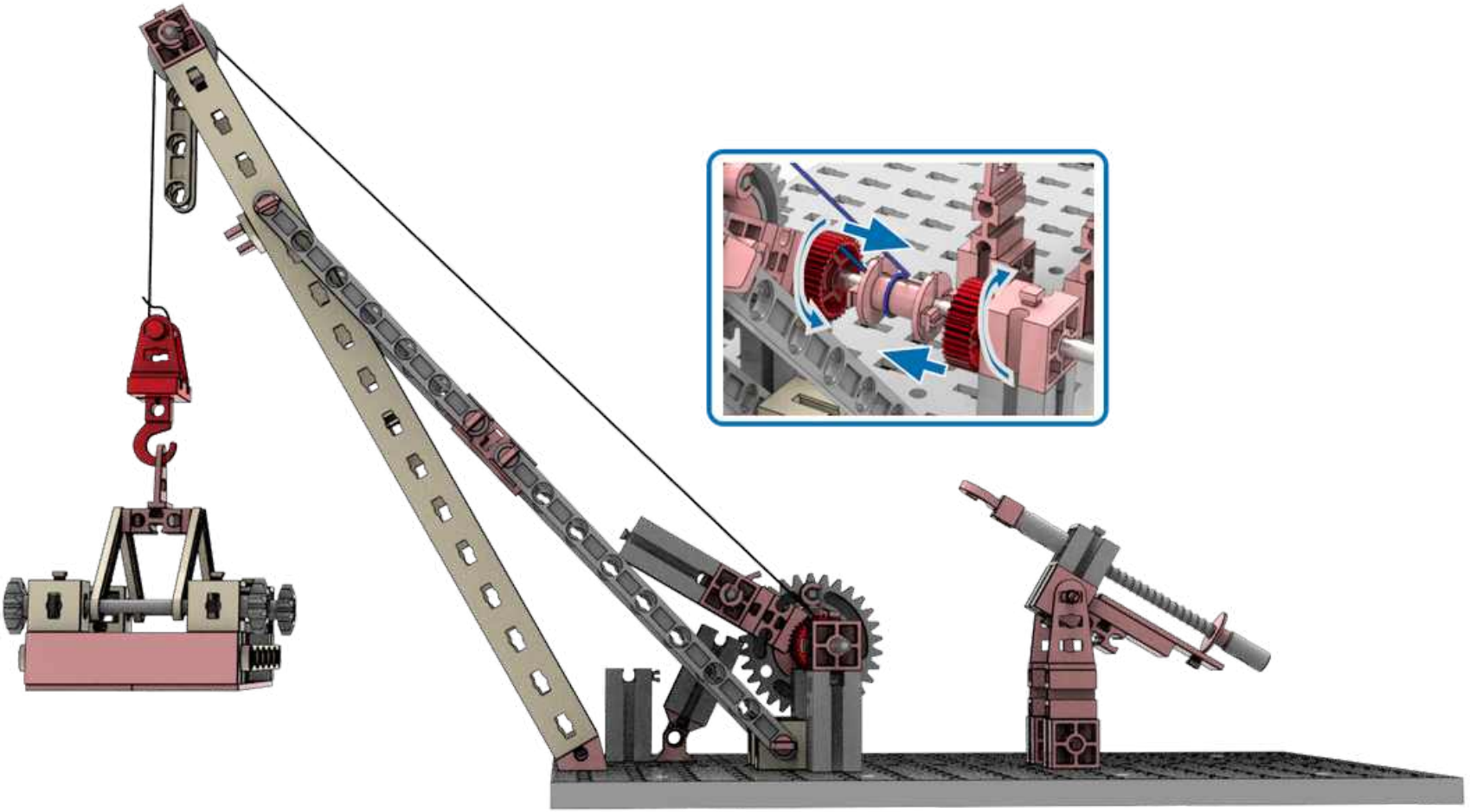
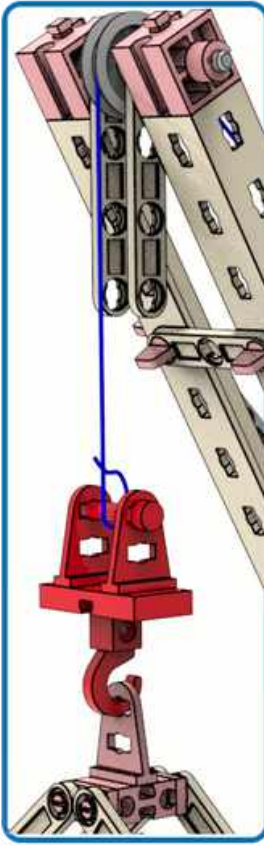
26  1x  2x





27  1x

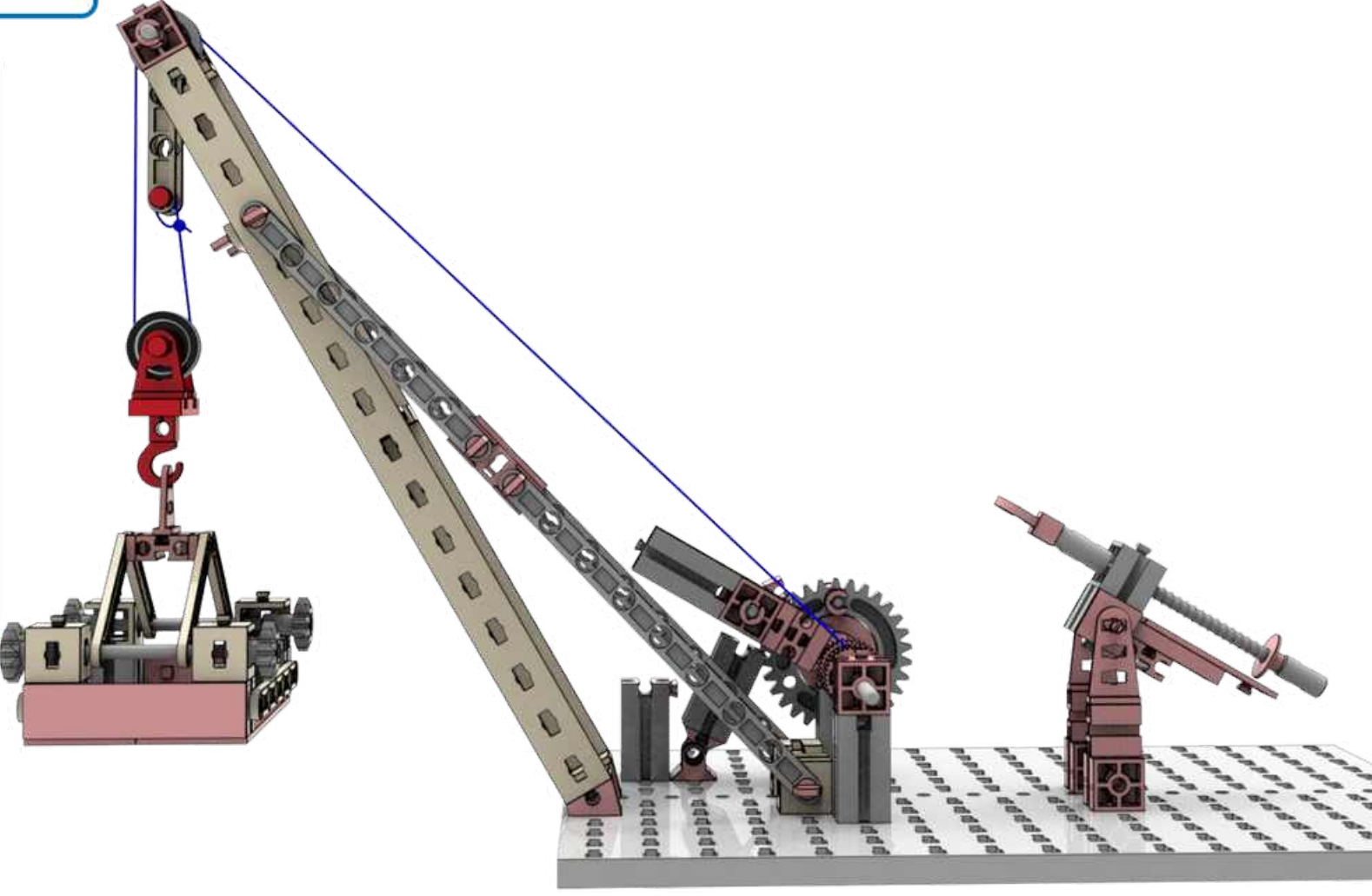
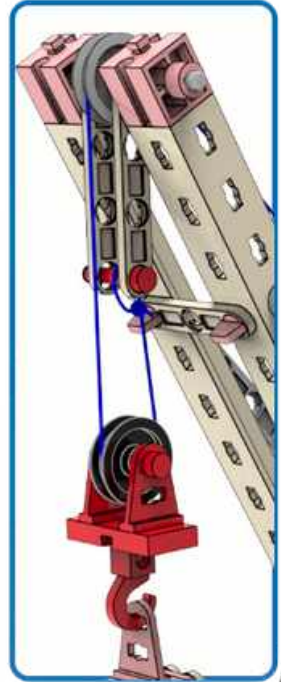


28  1x  1x  1x  2x  1x



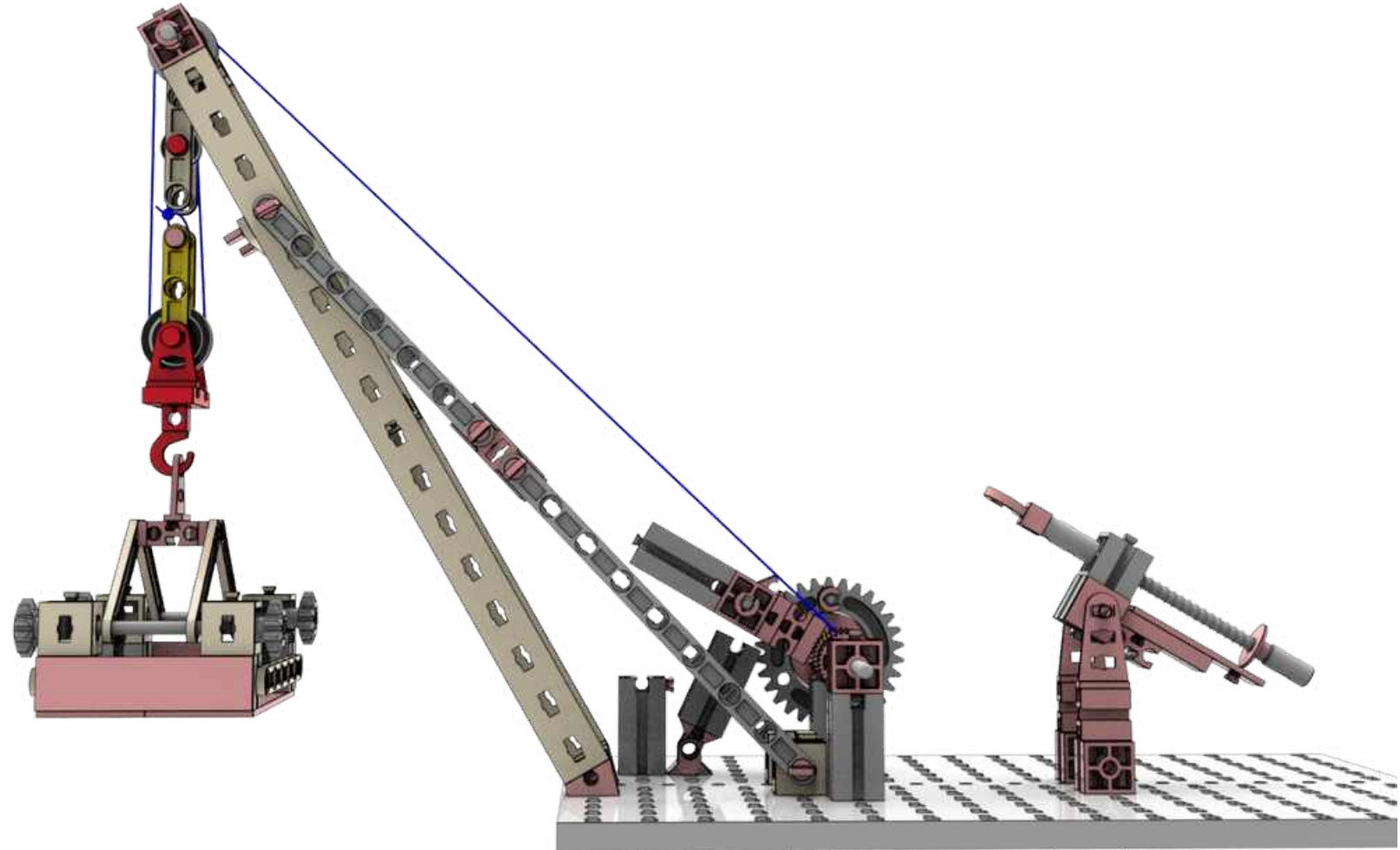
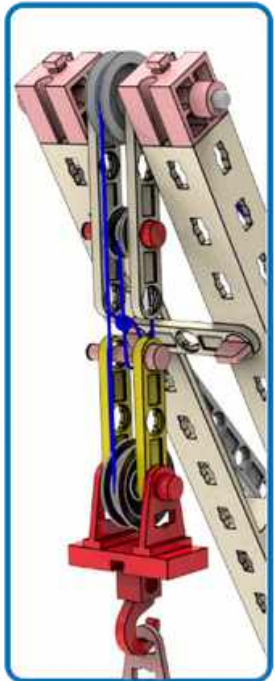
29  1x  1x



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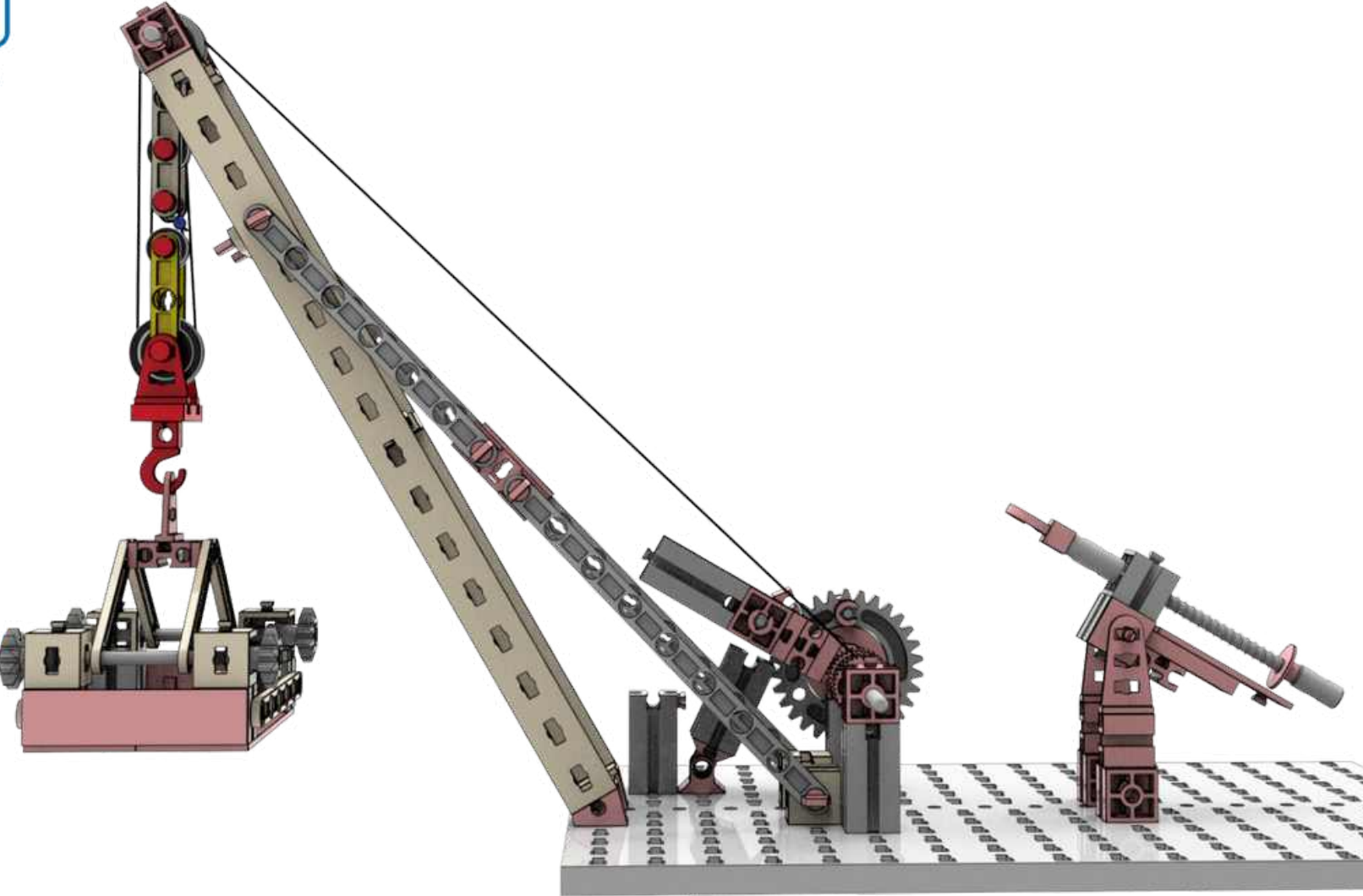
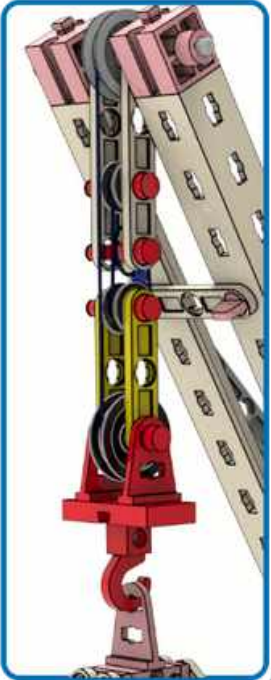
30  1x  1x  2x




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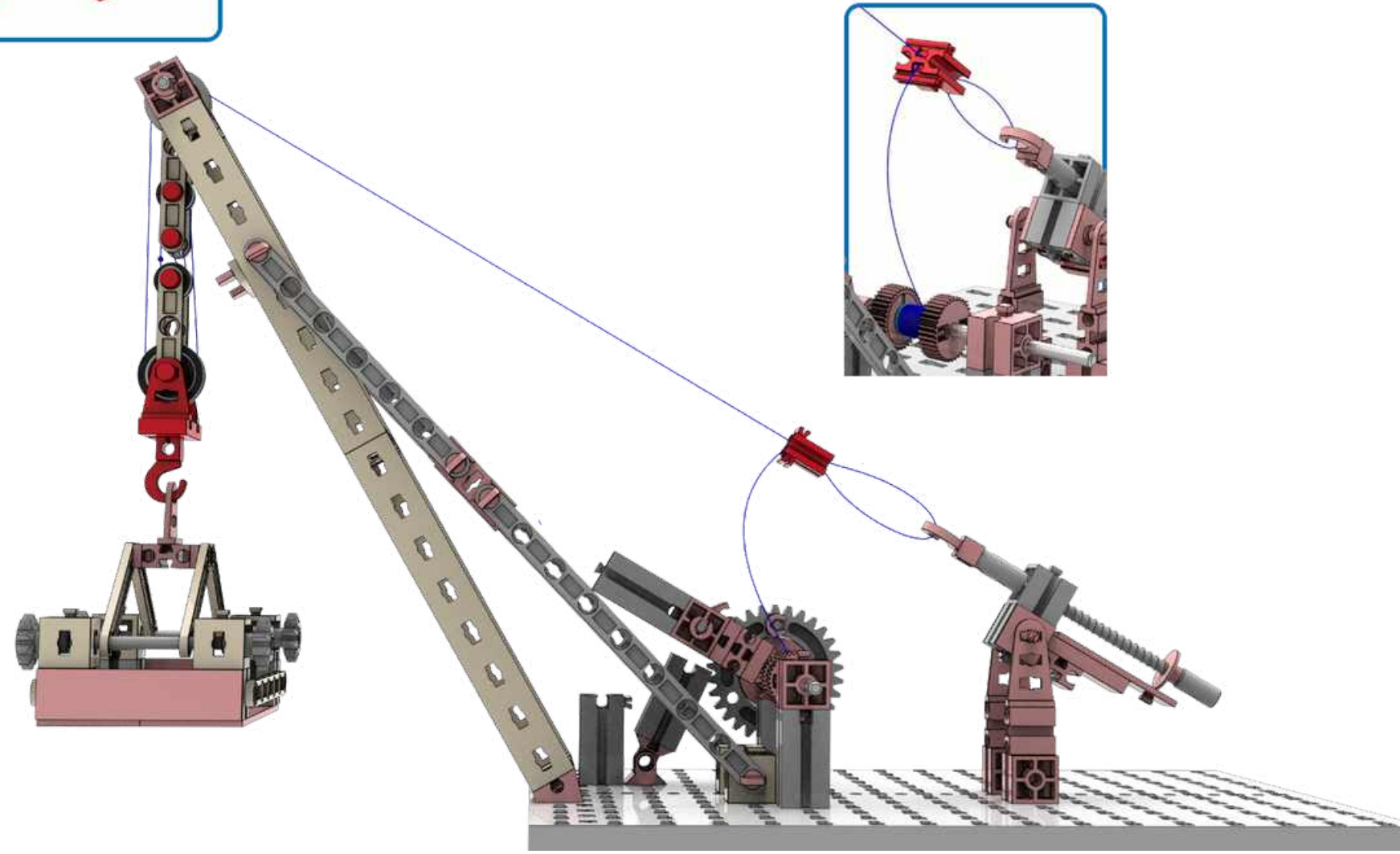
31  1x  1x

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32  1x  1x  2x

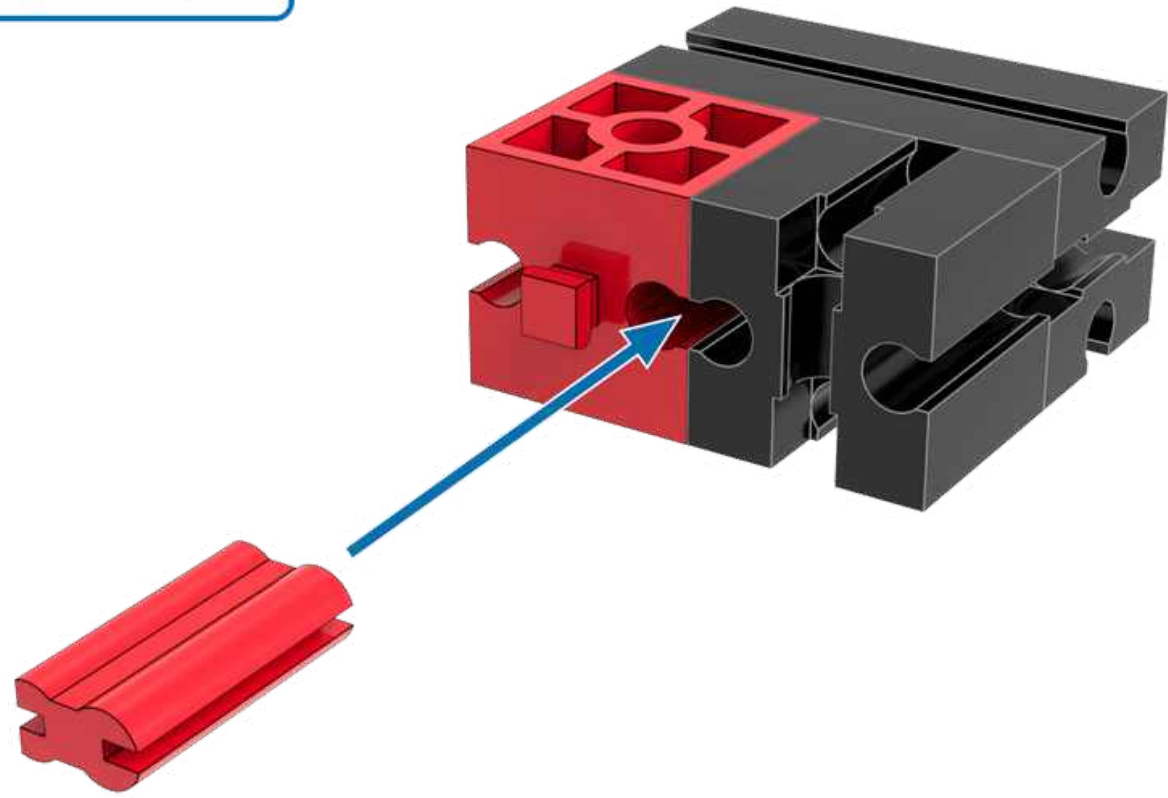
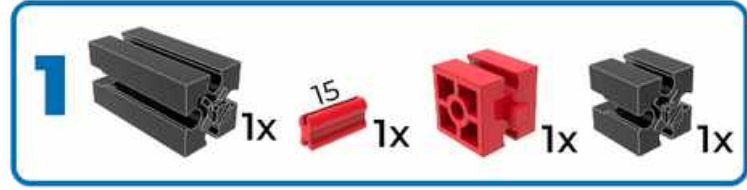
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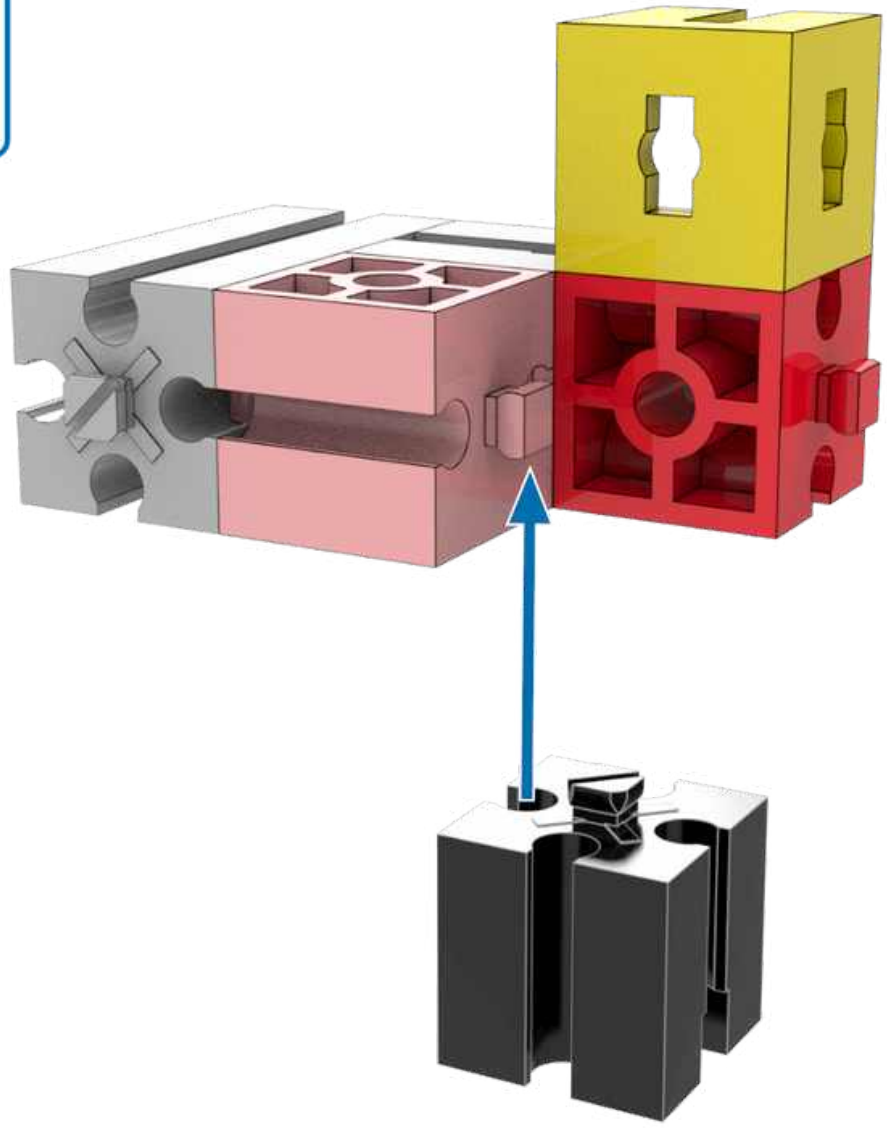
Schiefe Ebene






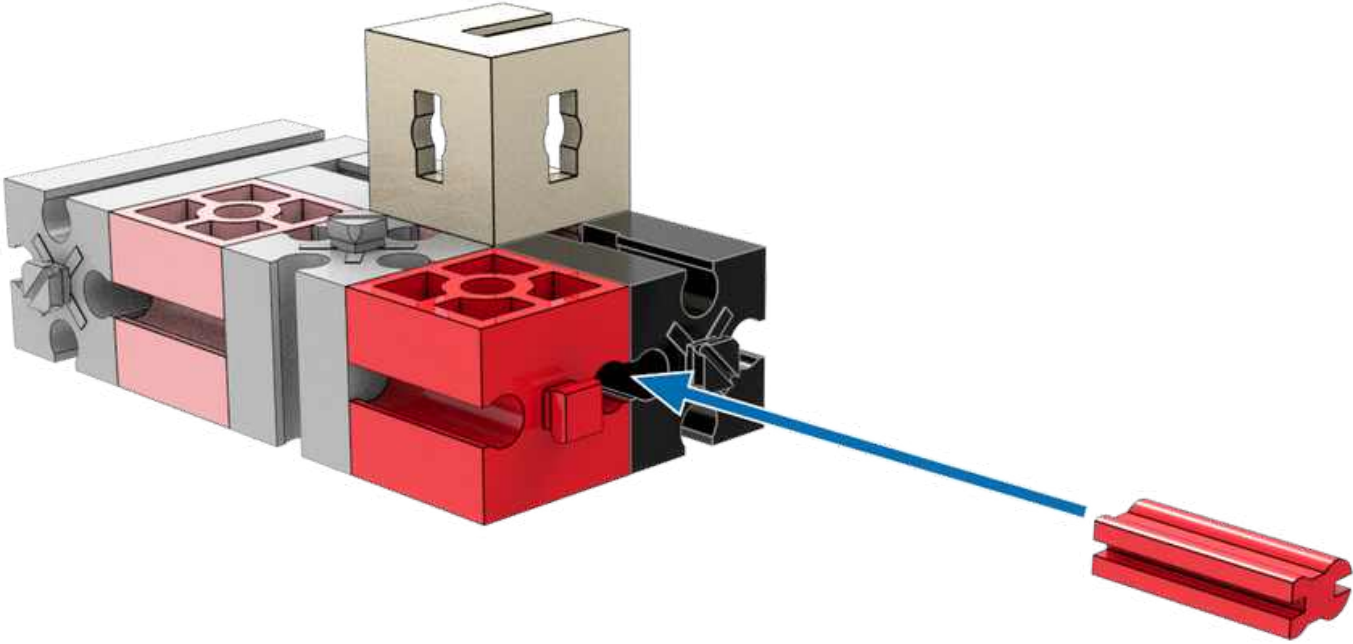


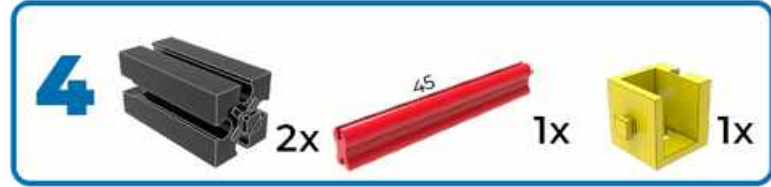




2  1x  1x  1x

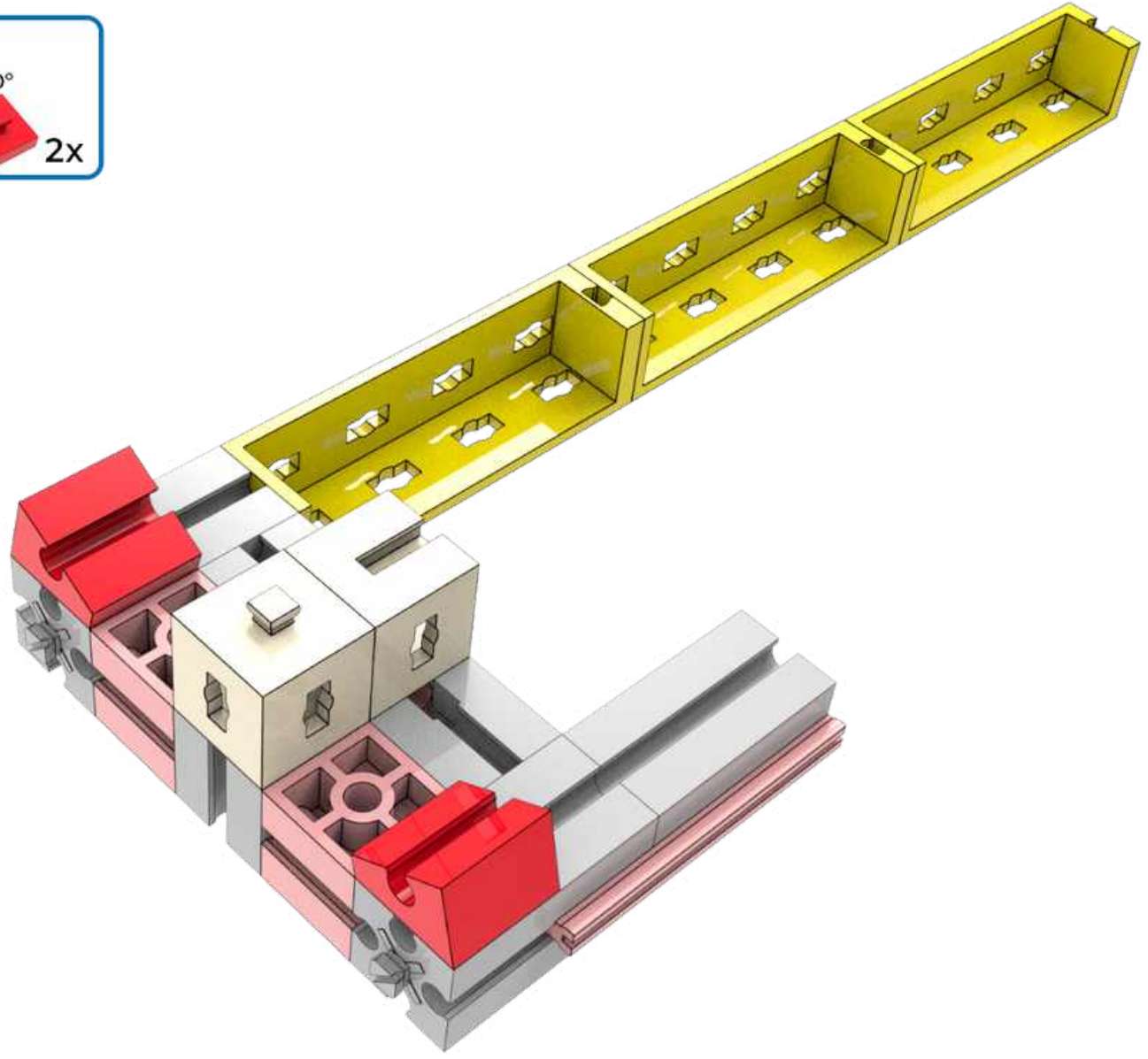


3  1x  1x  1x

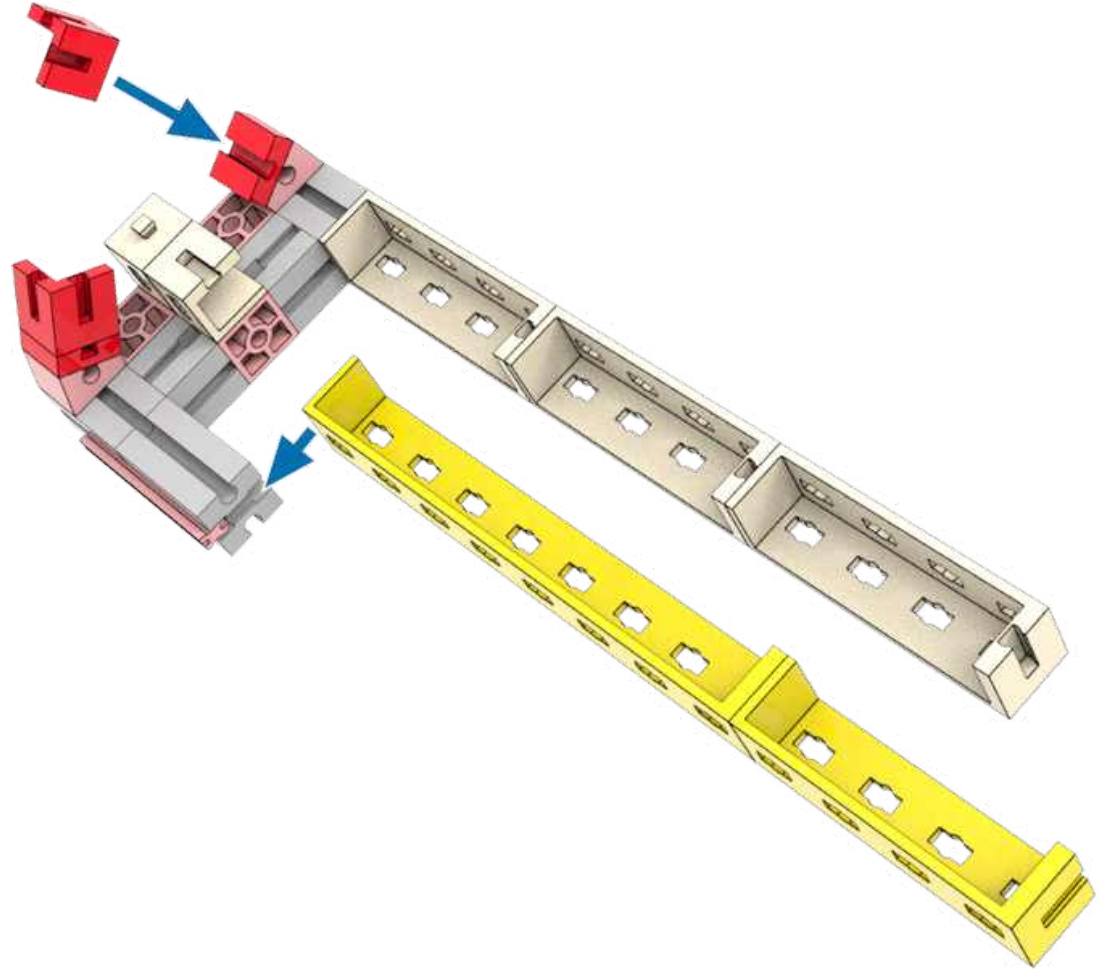







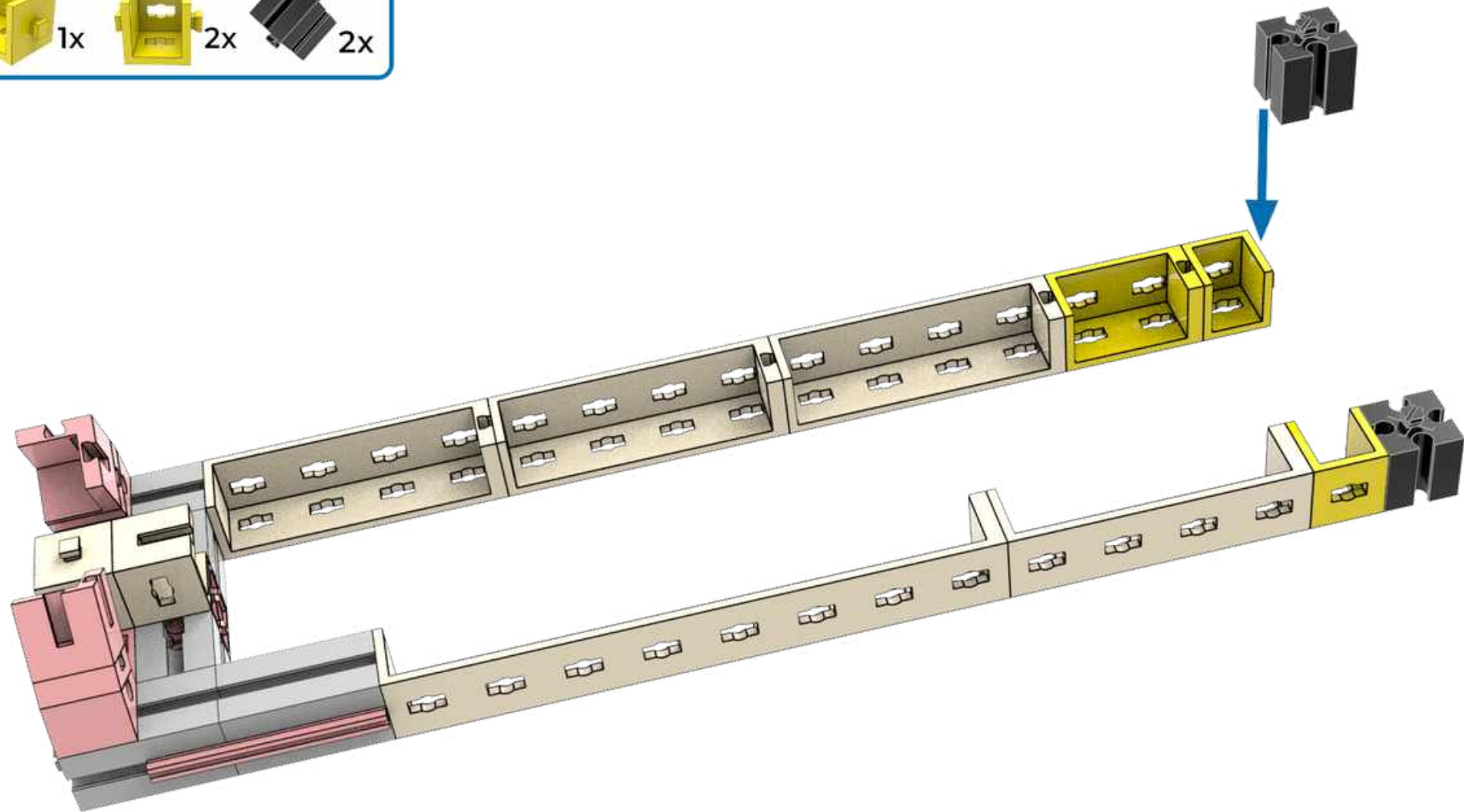
5  3x  30° 2x






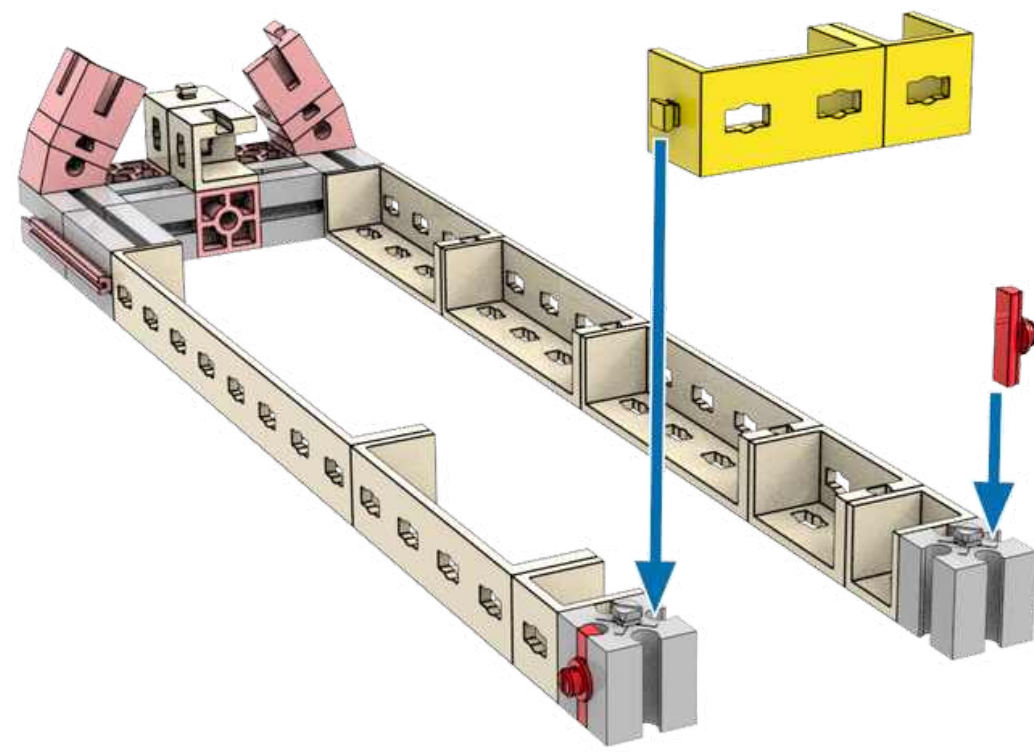
6  1x  1x  2x  2x



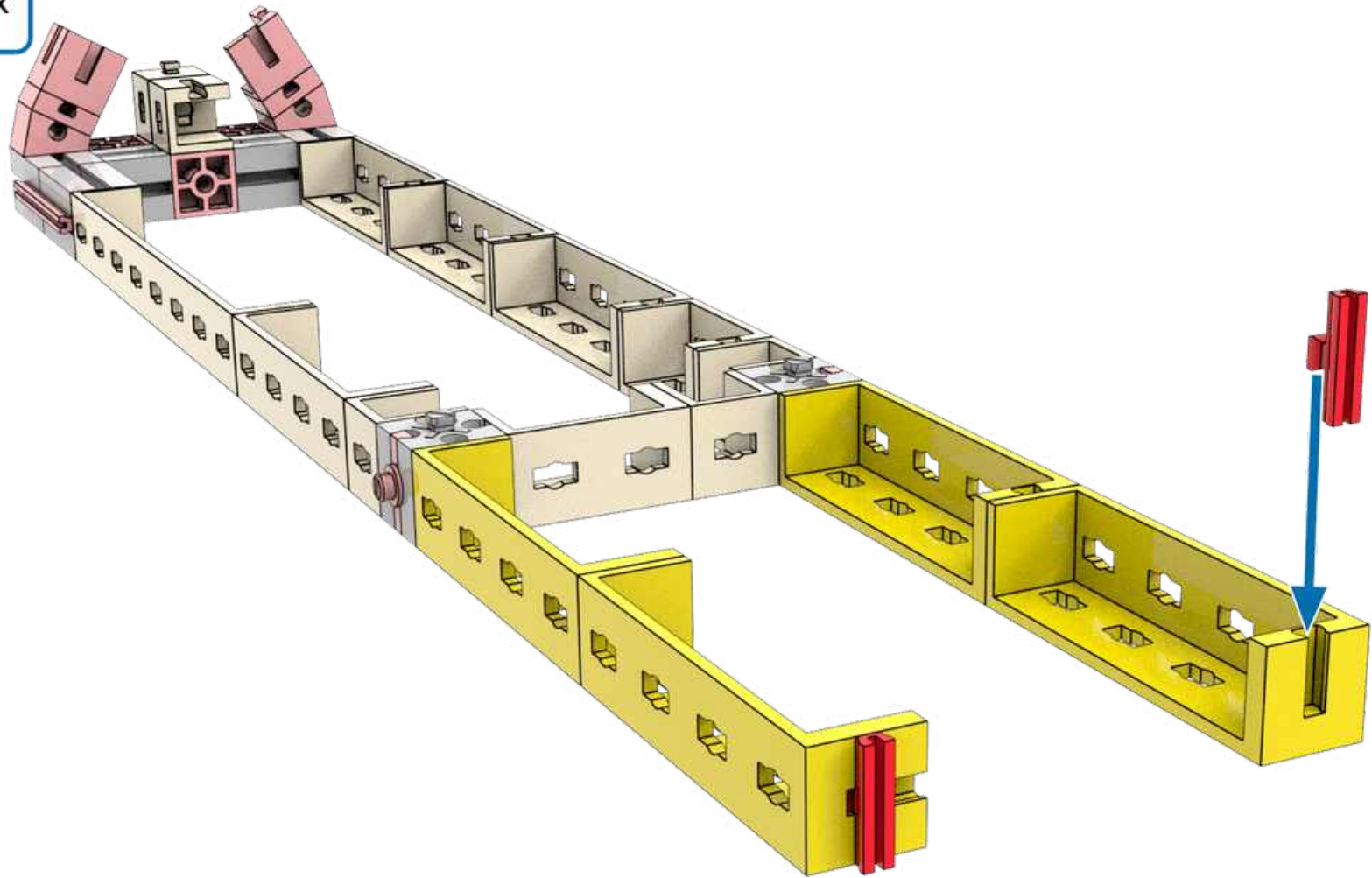
7  1x  2x  2x



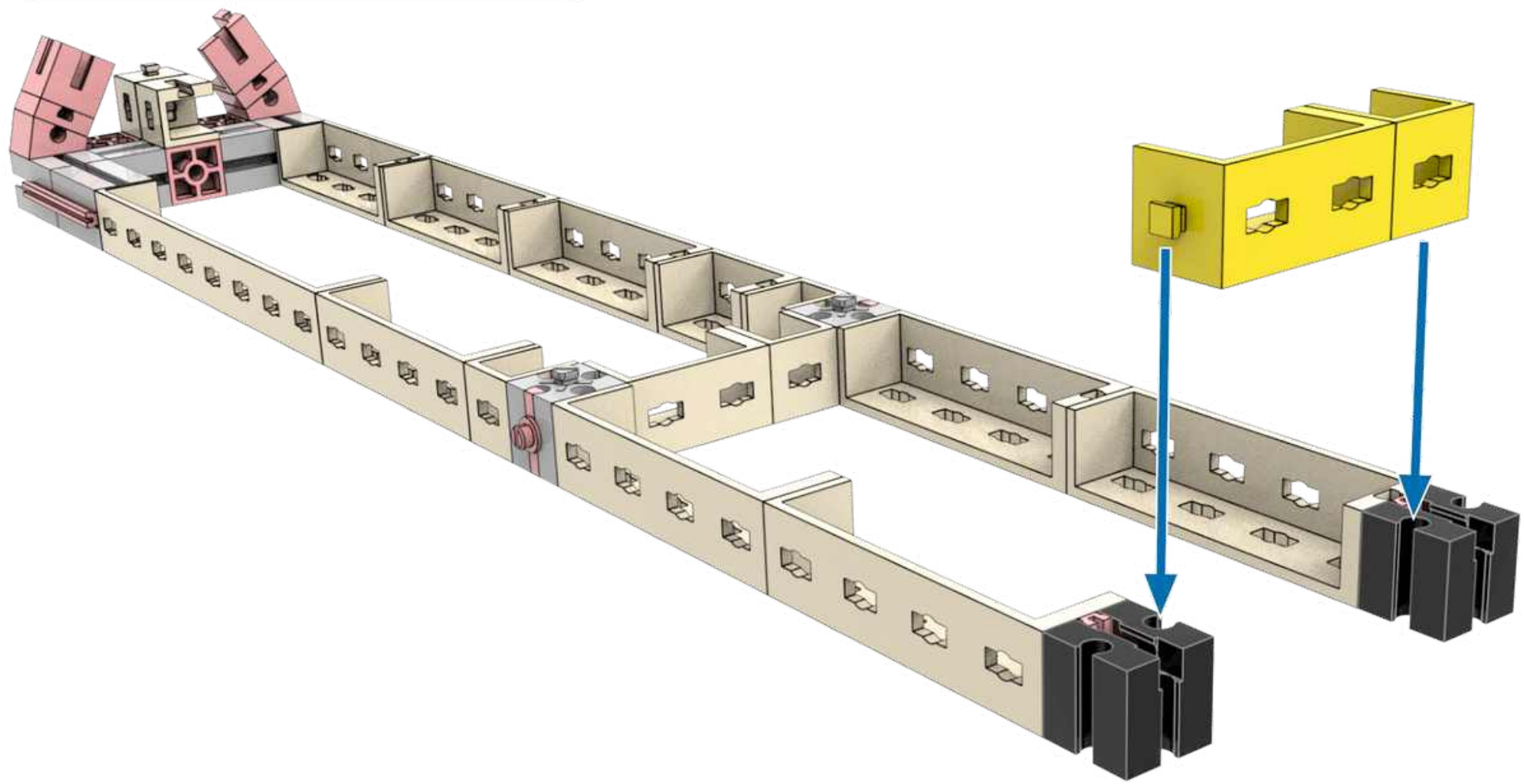
8  1x  1x  2x



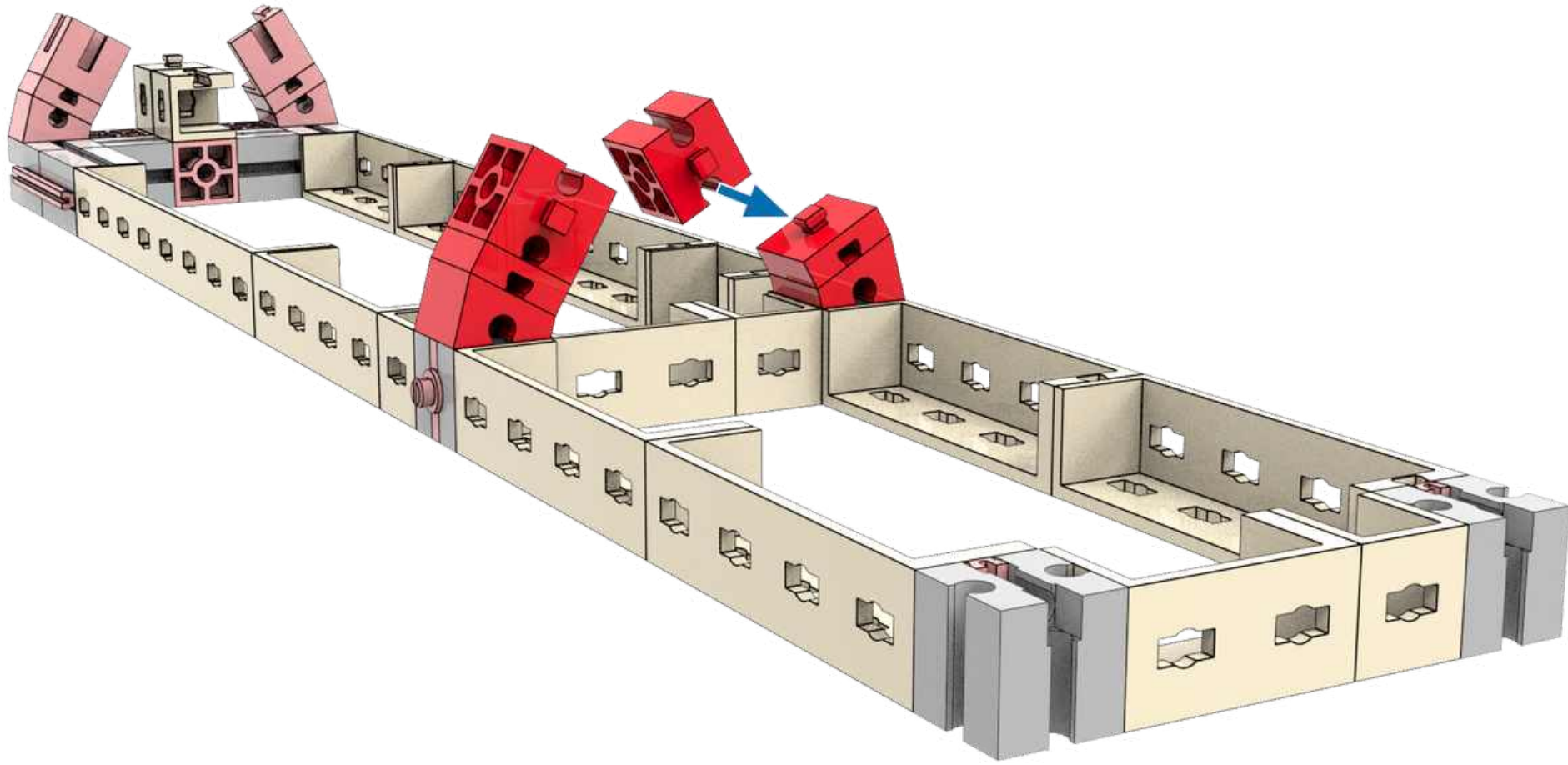
9  4x  2x






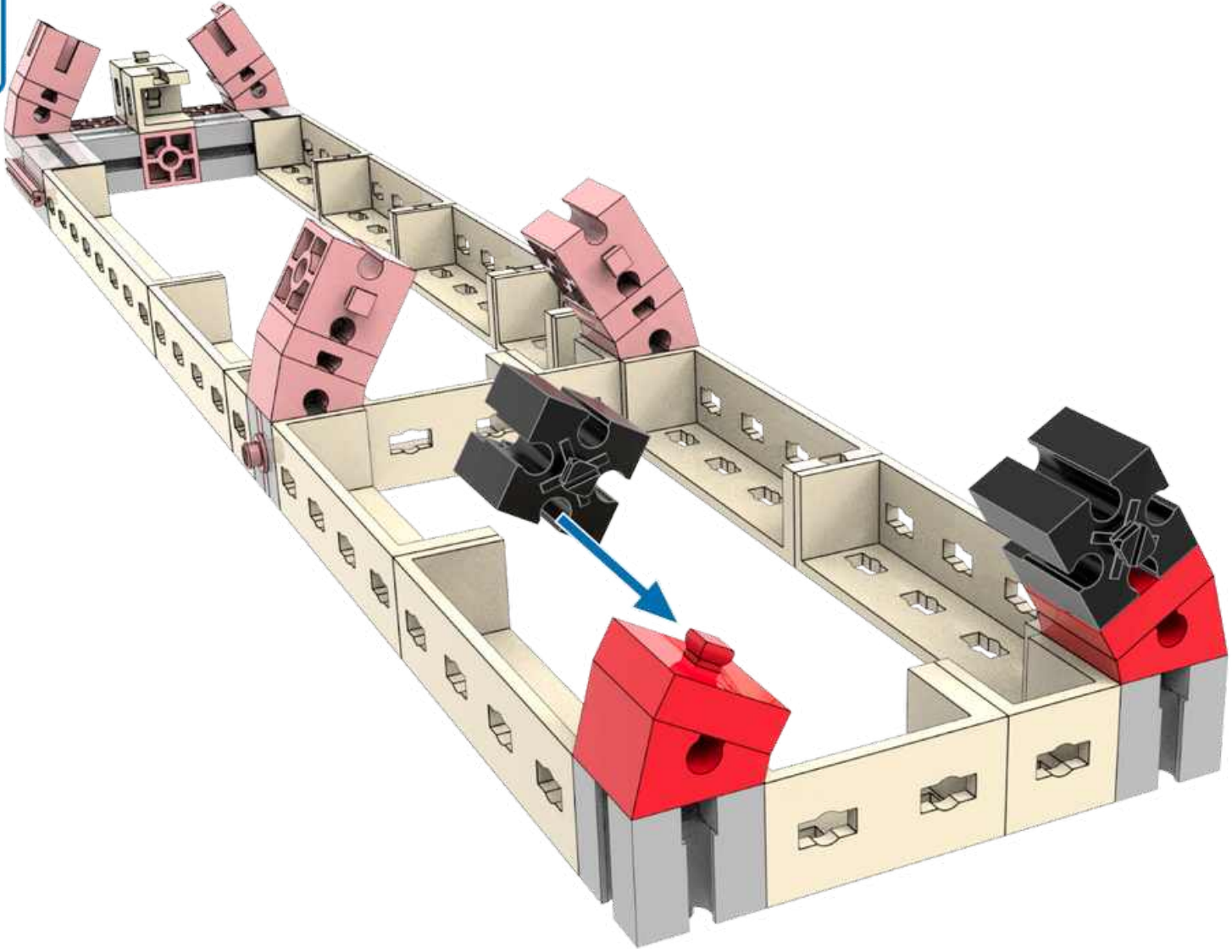
10  2x  1x  1x



11 ^{30°} 2x 2x 2x



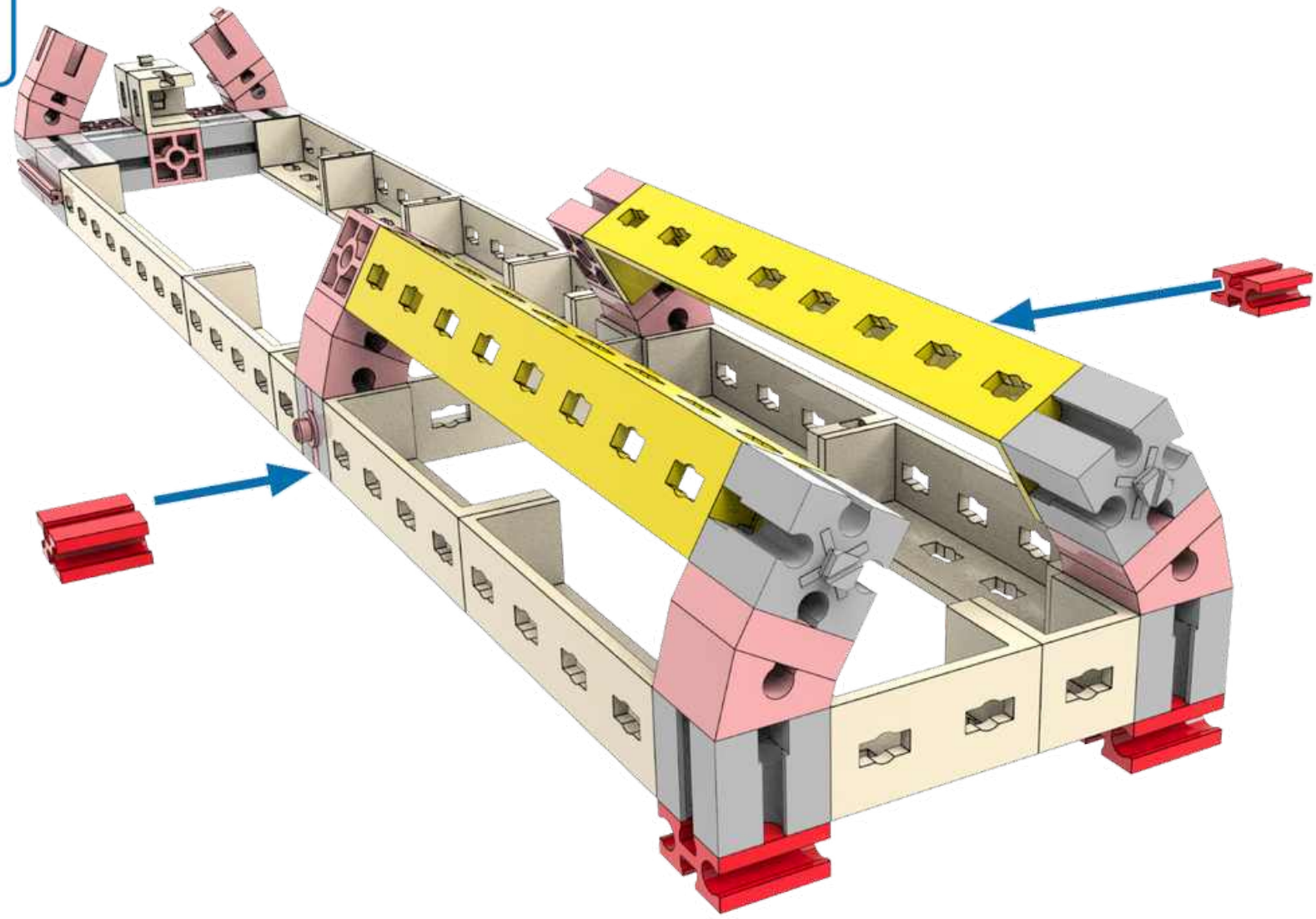
12 ^{30°} 2x  2x  2x  2x



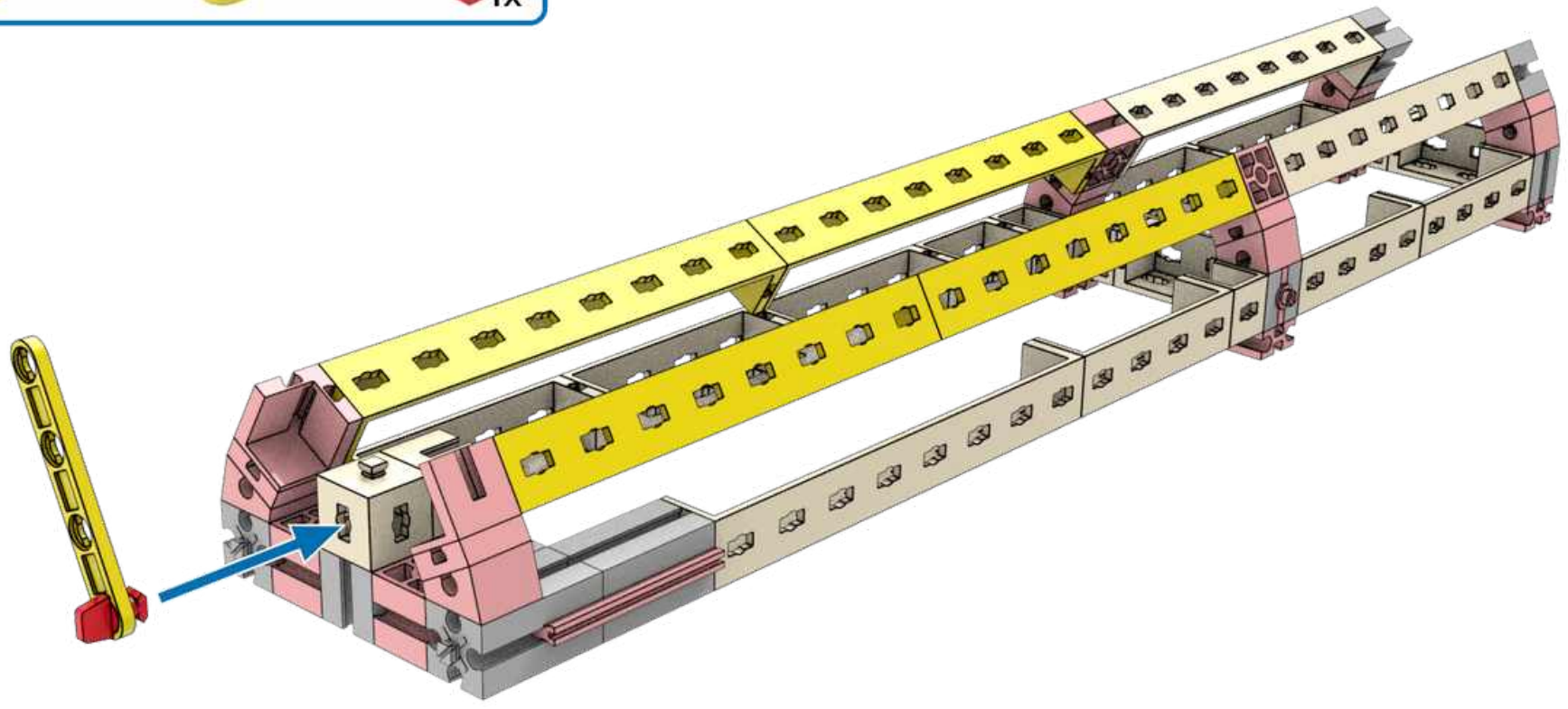
13

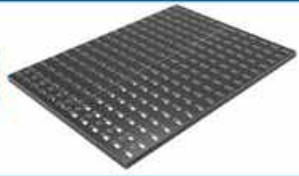




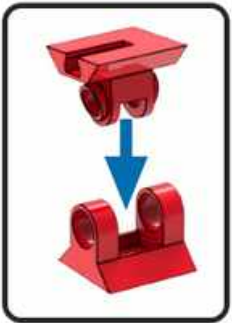
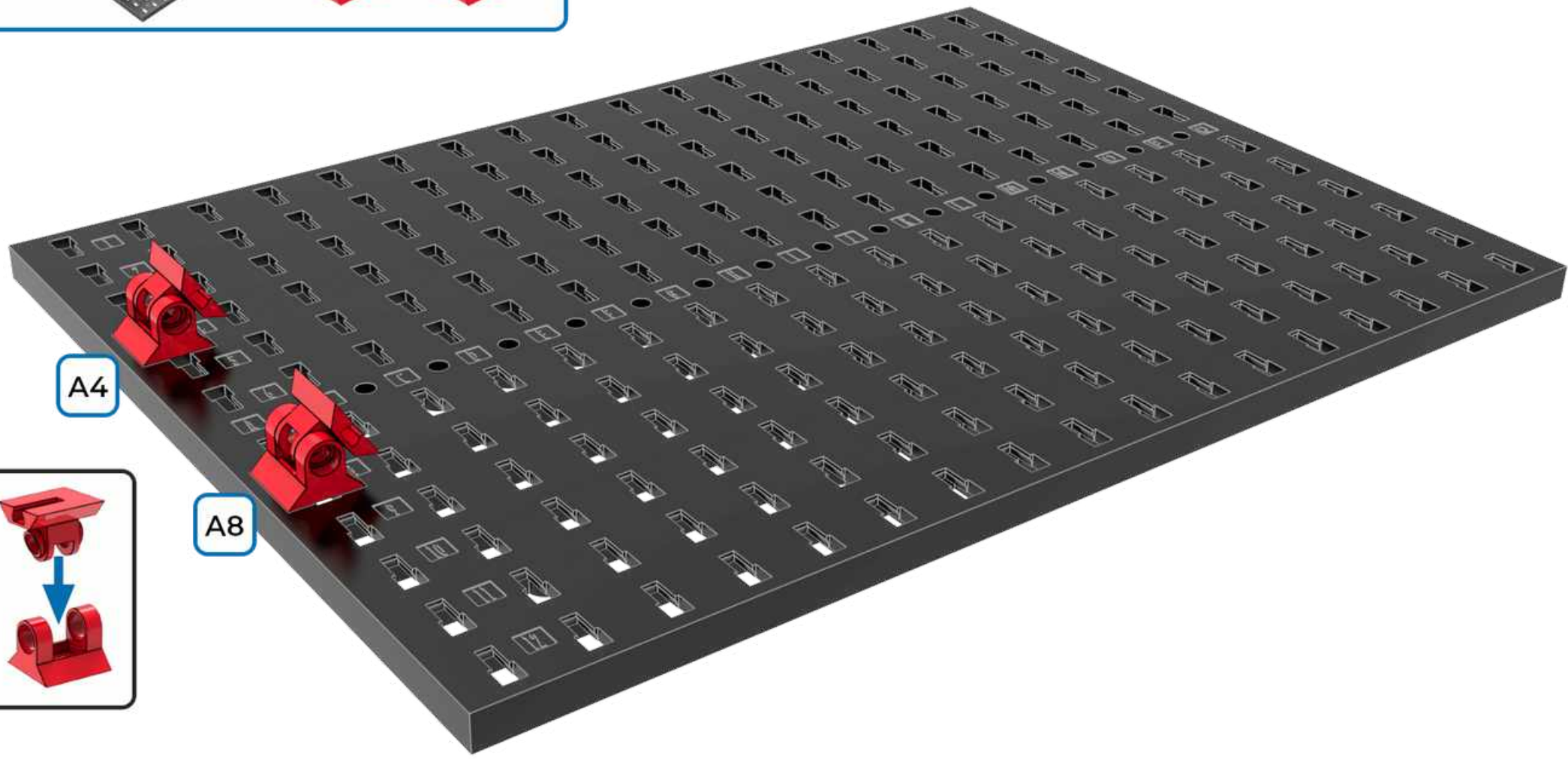
2x
4x





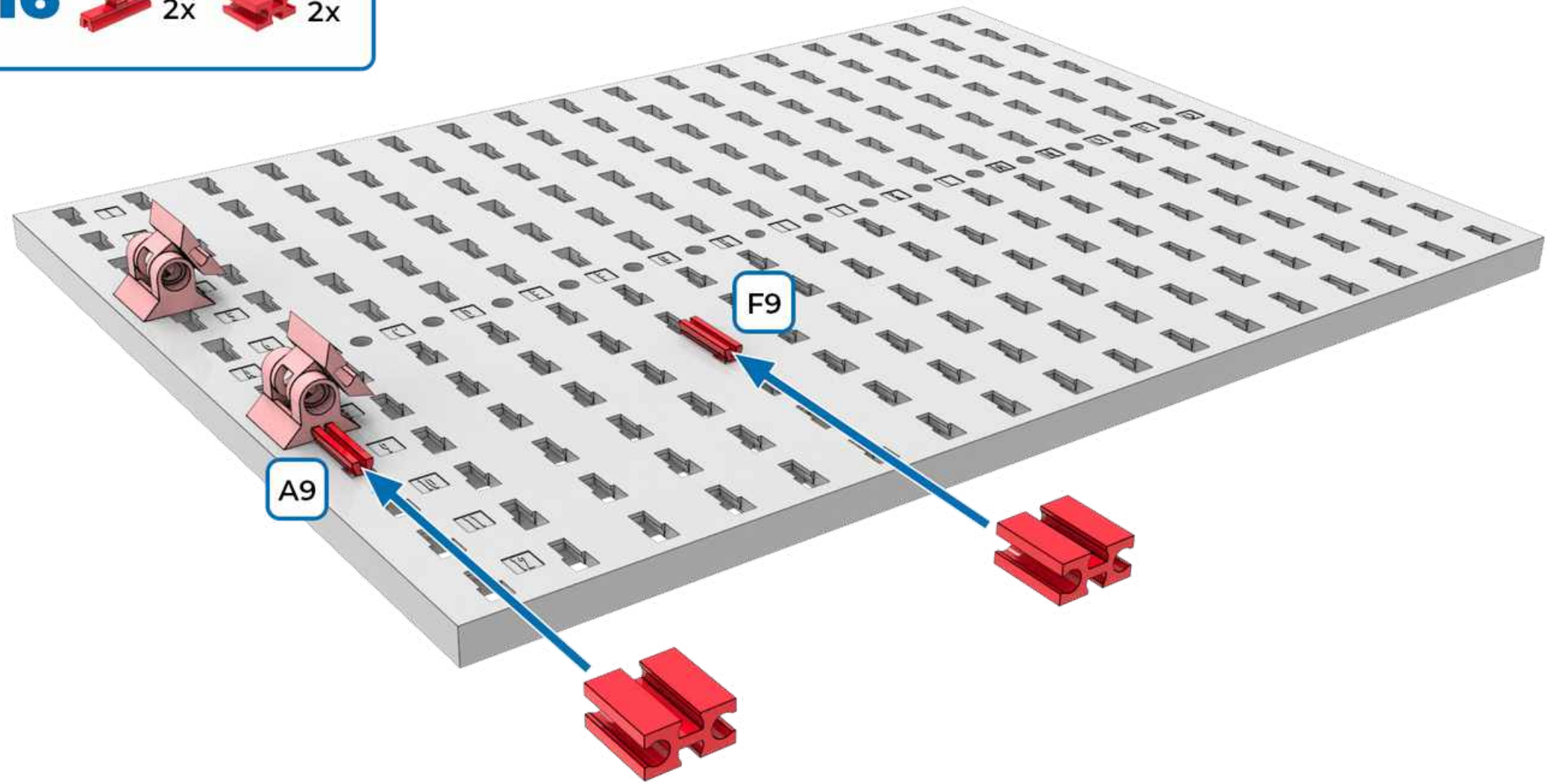
14 4x 45 1x 4 1x



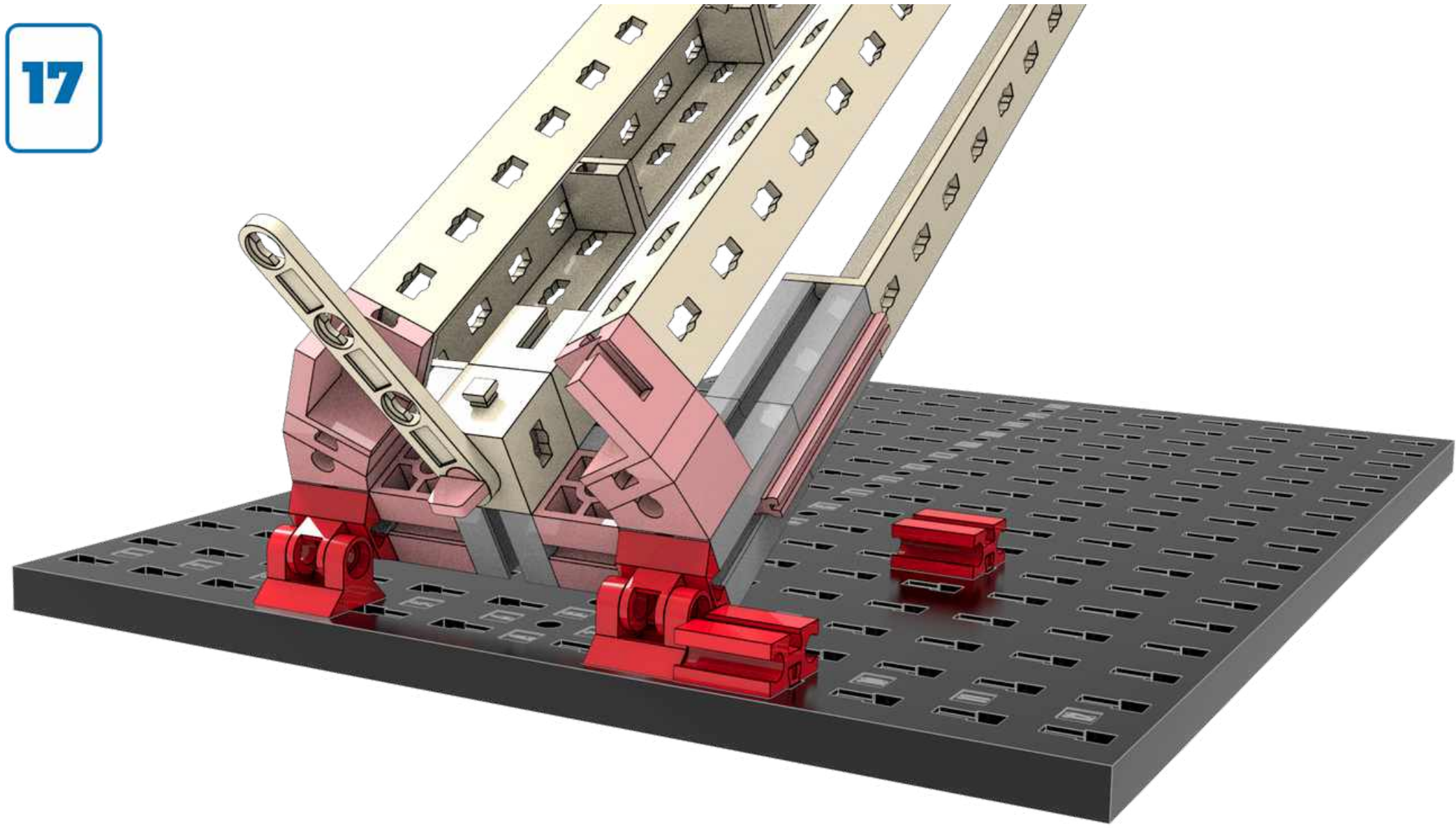
15  1x  2x  2x







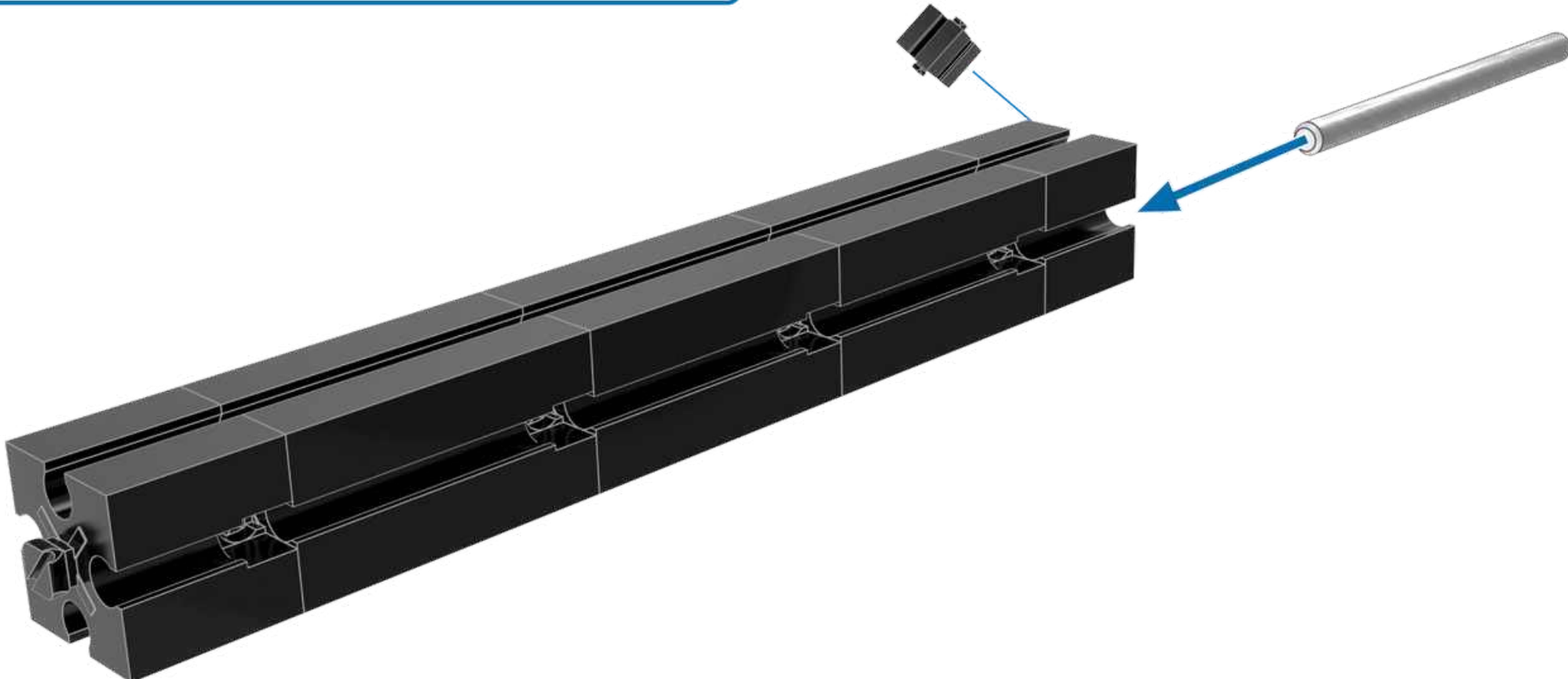
16  2x  2x







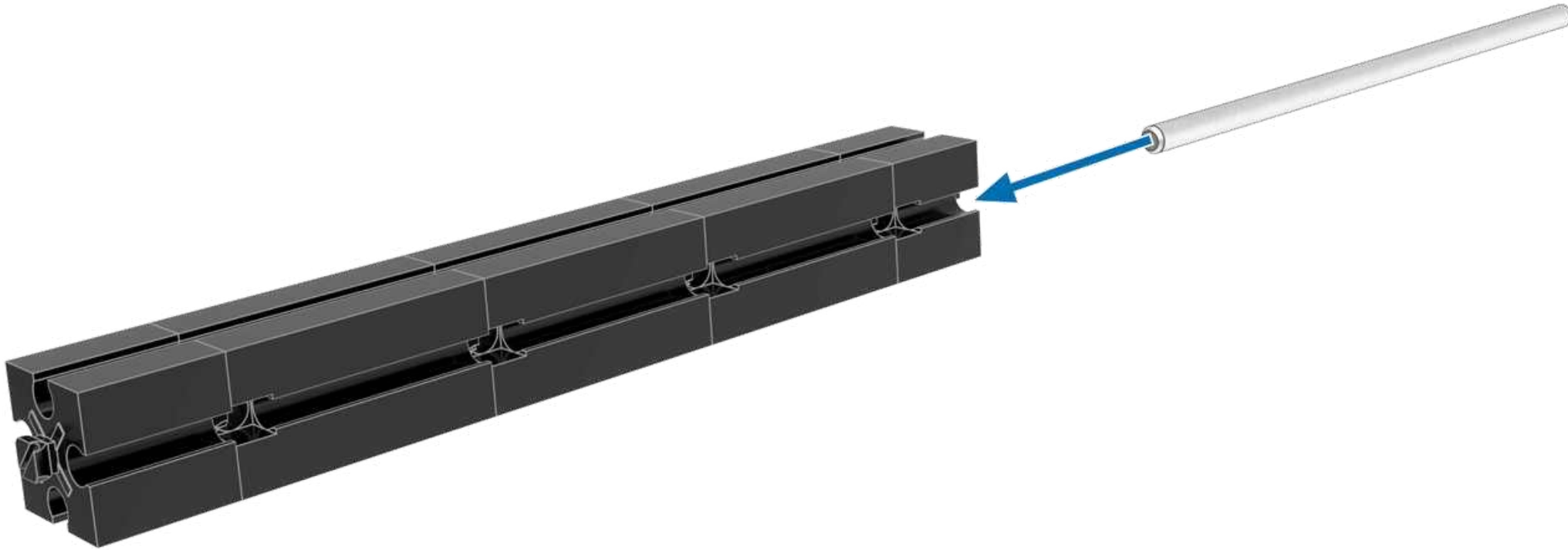
17





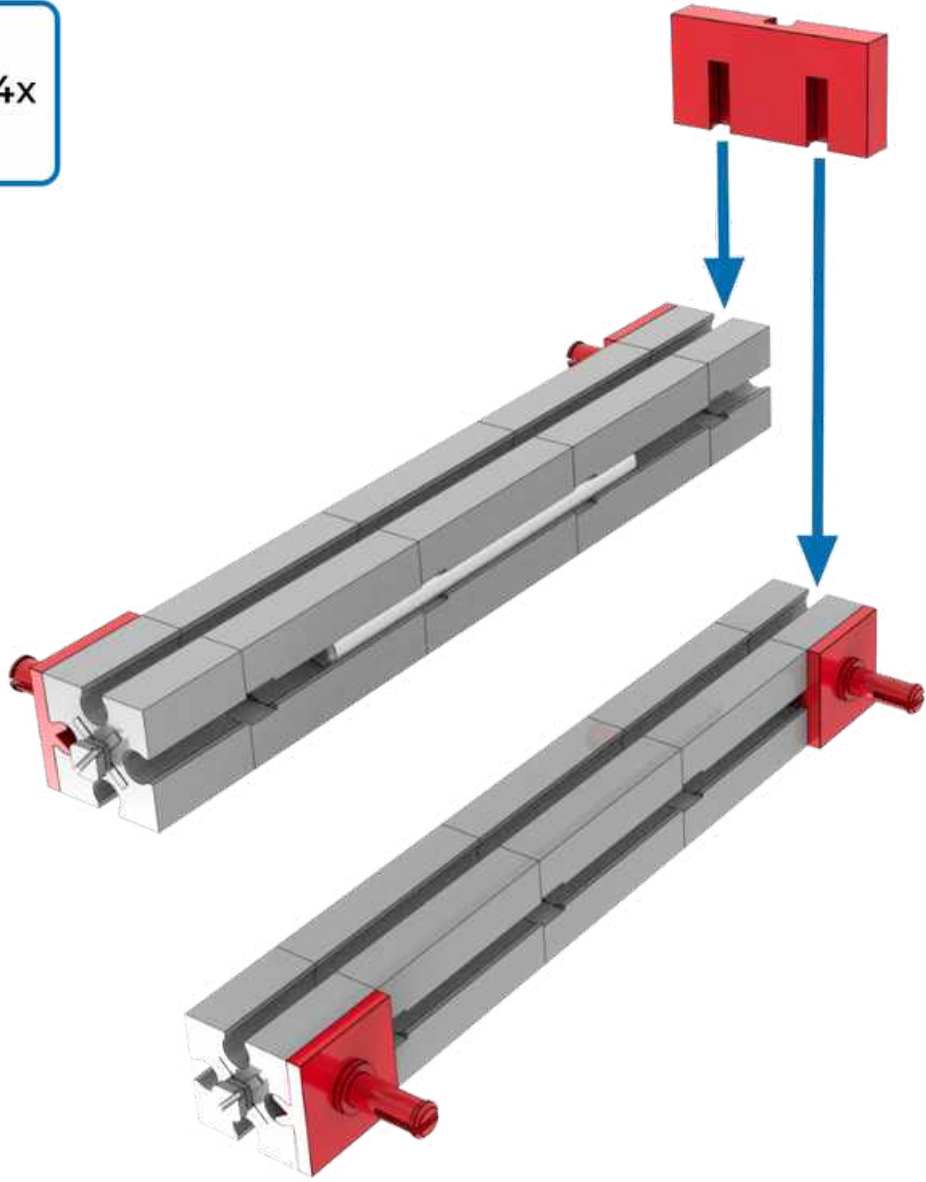
18  3x  1x  1x  60 1x






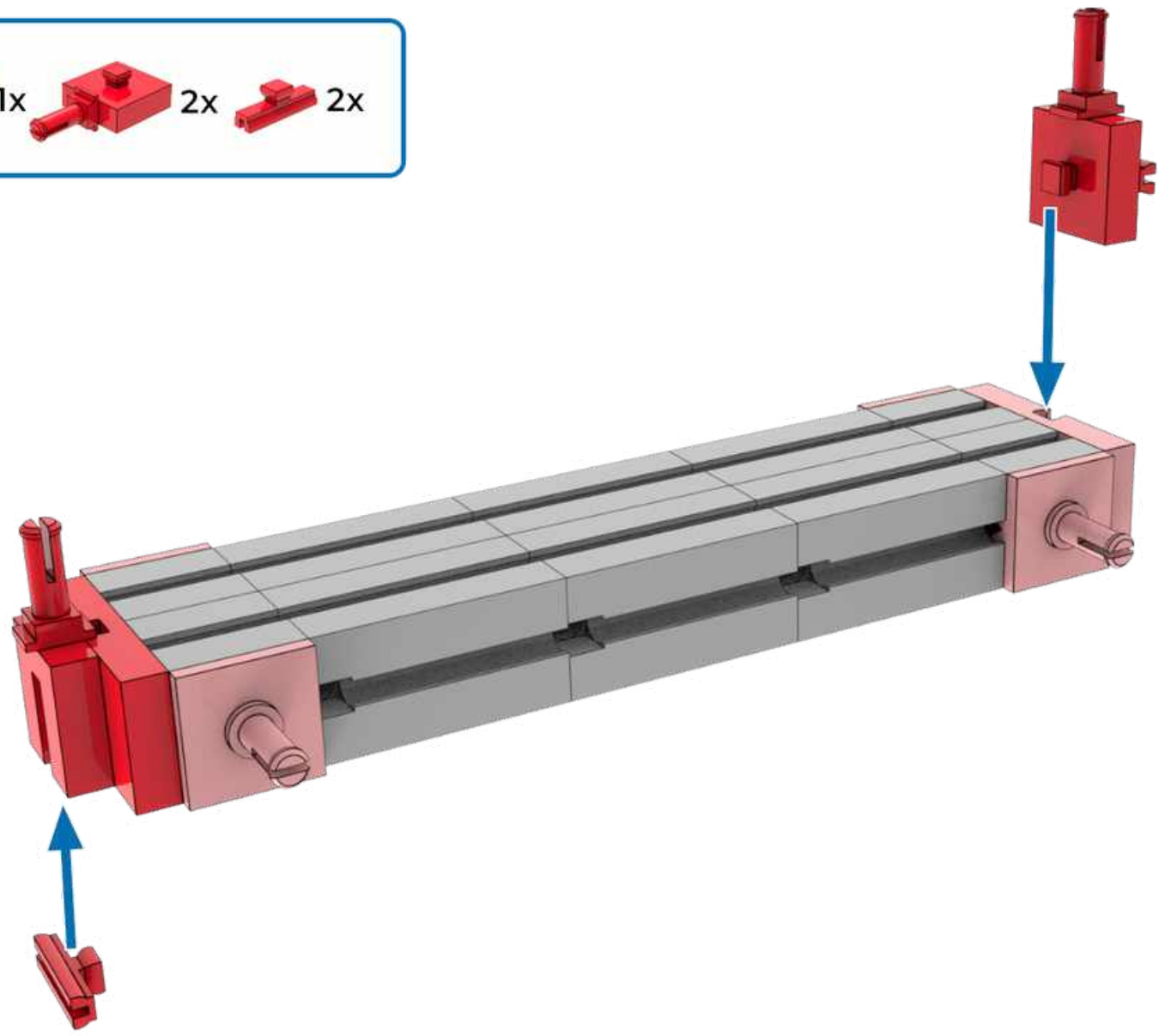
19  3x  1x  1x  1x





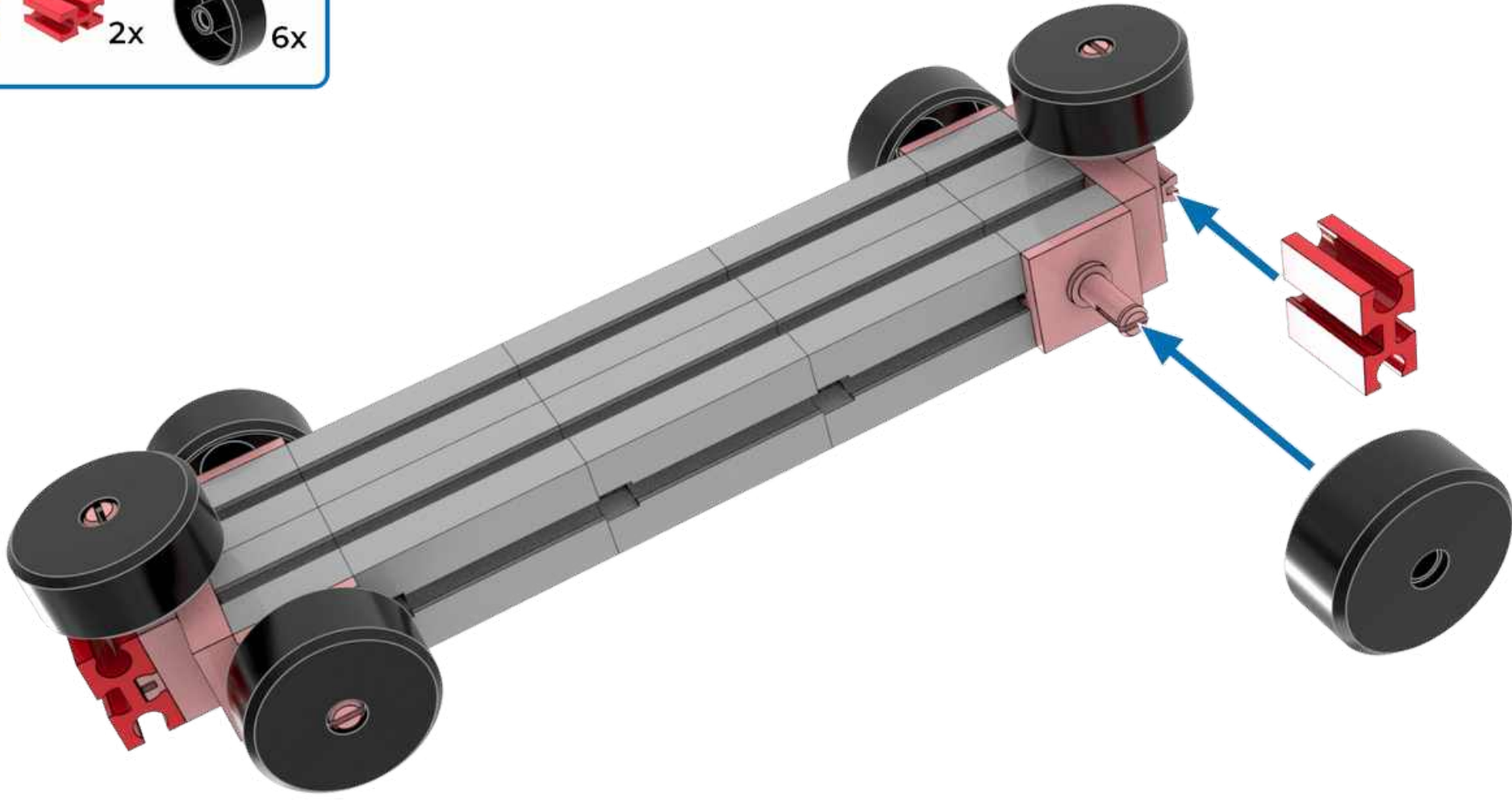
20  1x  4x



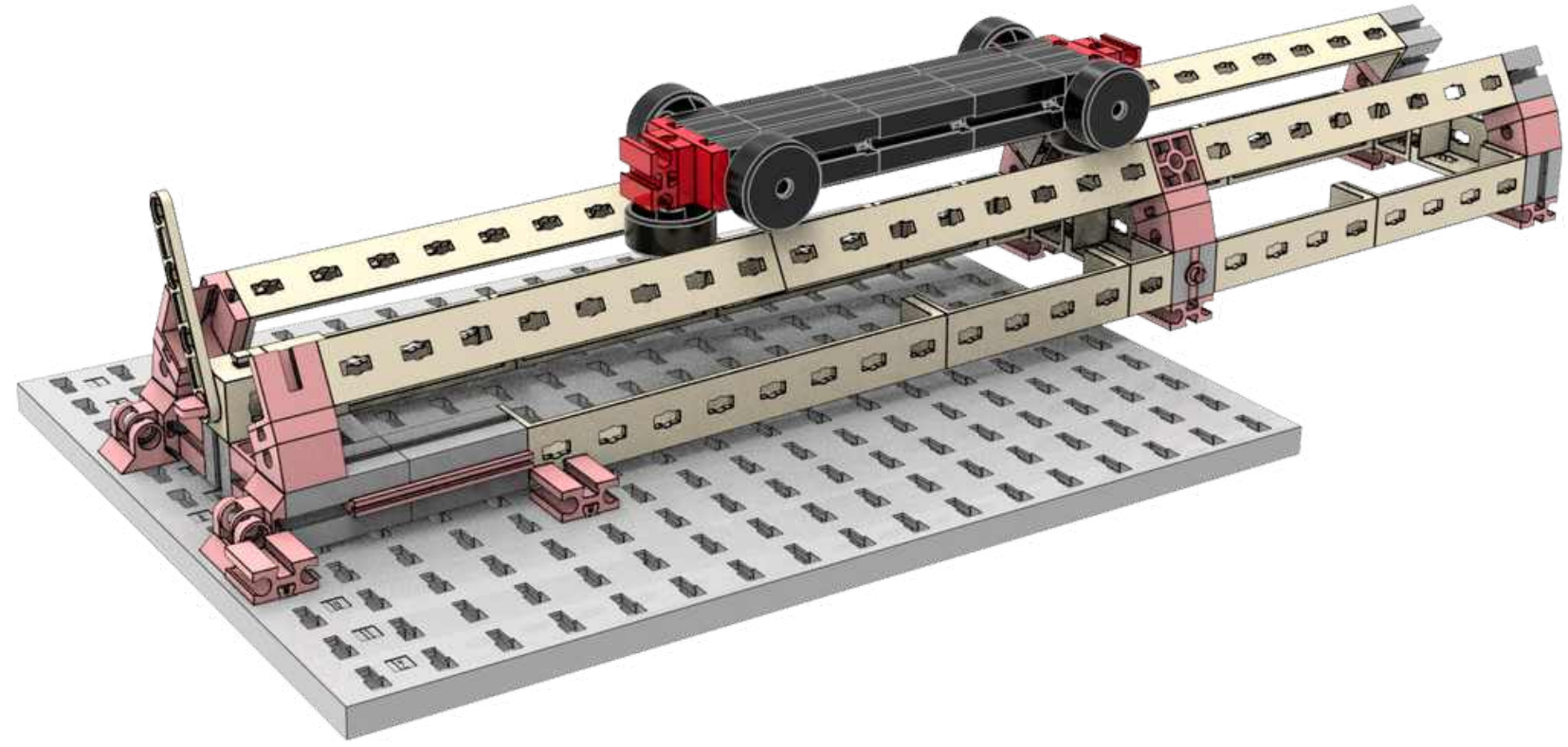
21  1x  2x  2x







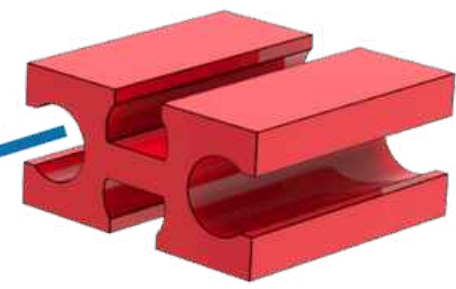
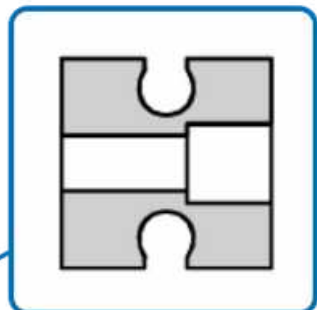
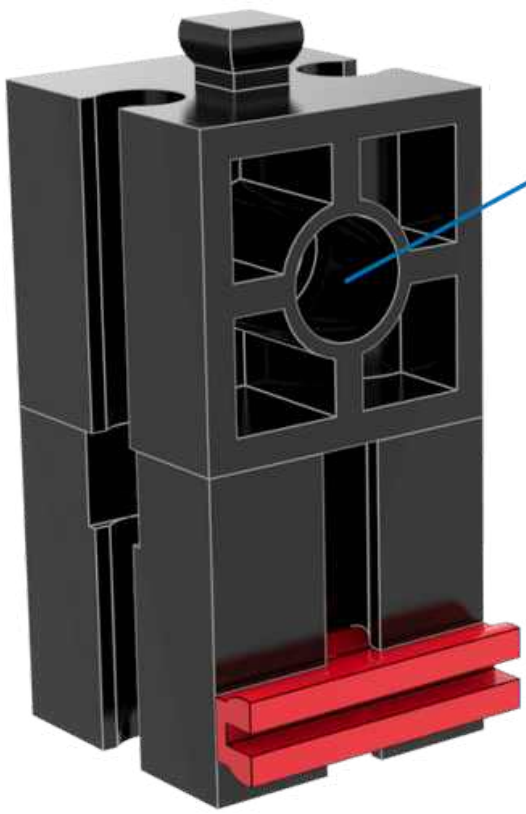
22  2x  6x






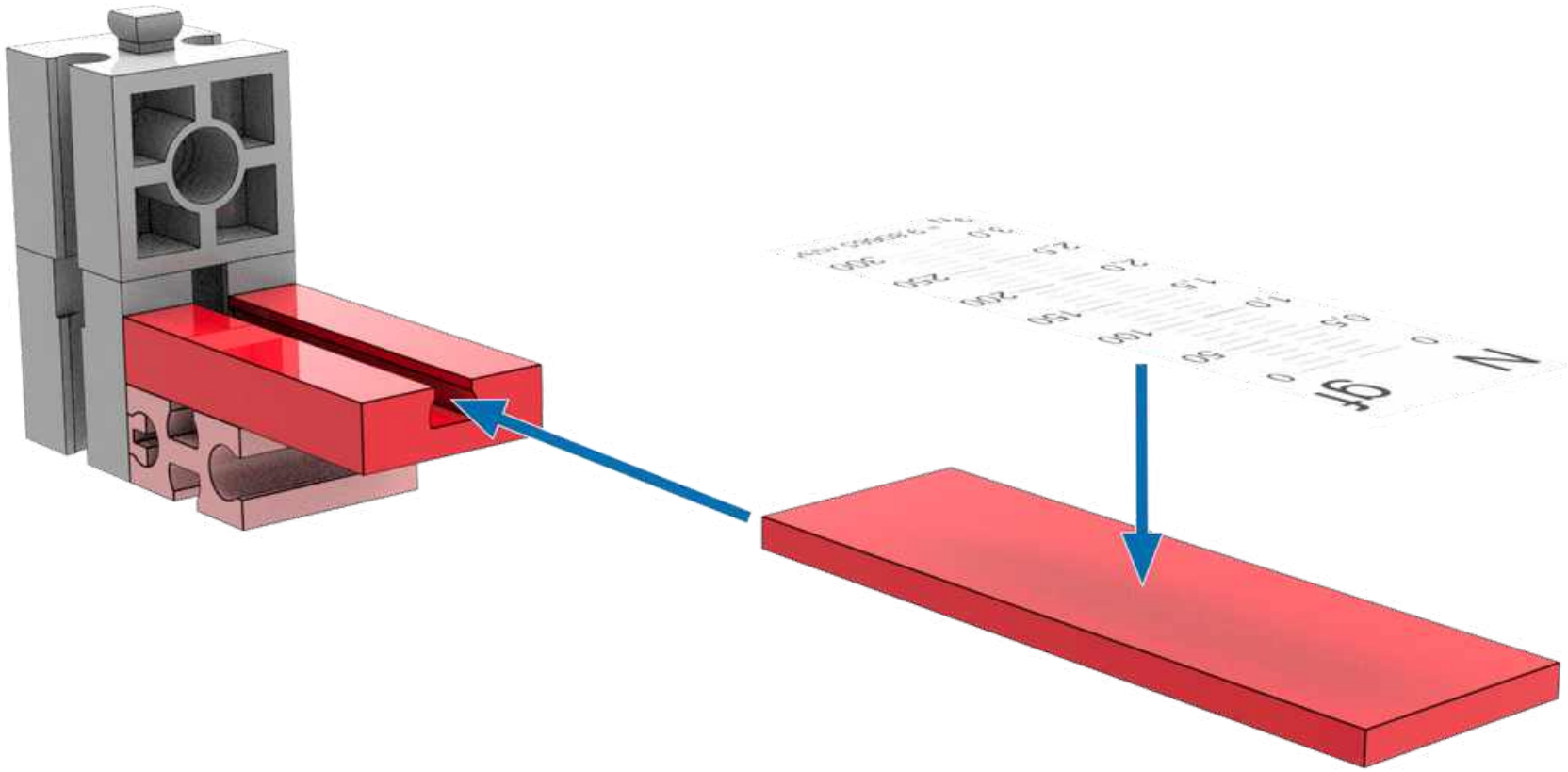
23



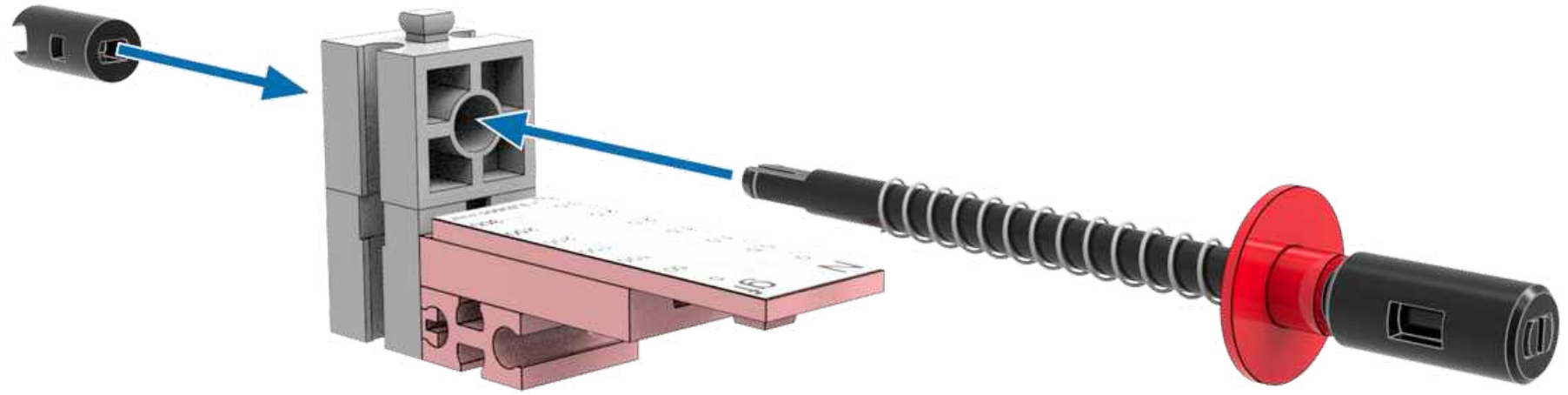
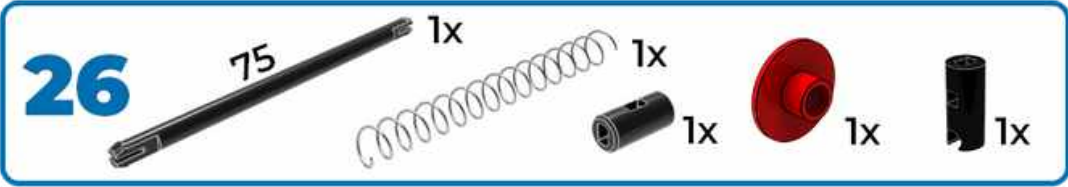
24  1x  1x  1x  1x

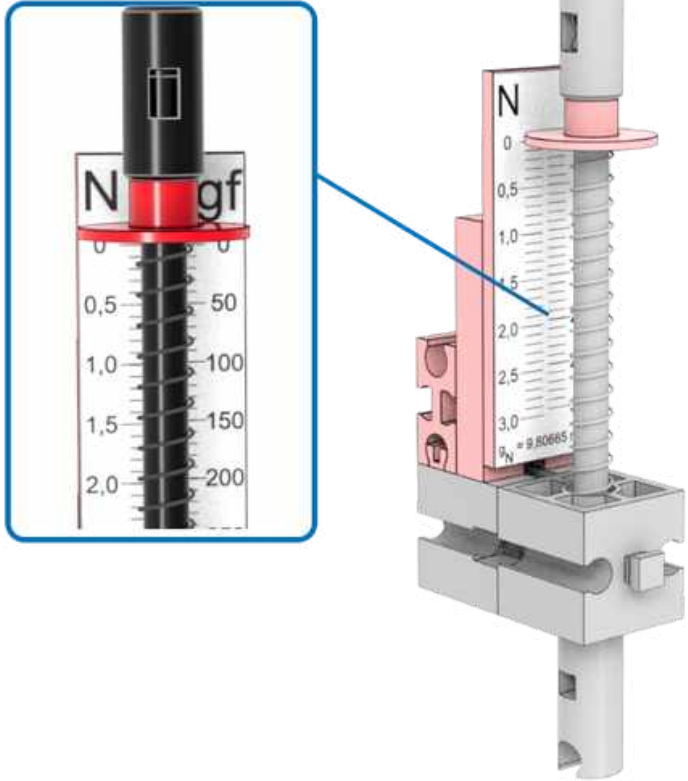


25  1x  1x  1x

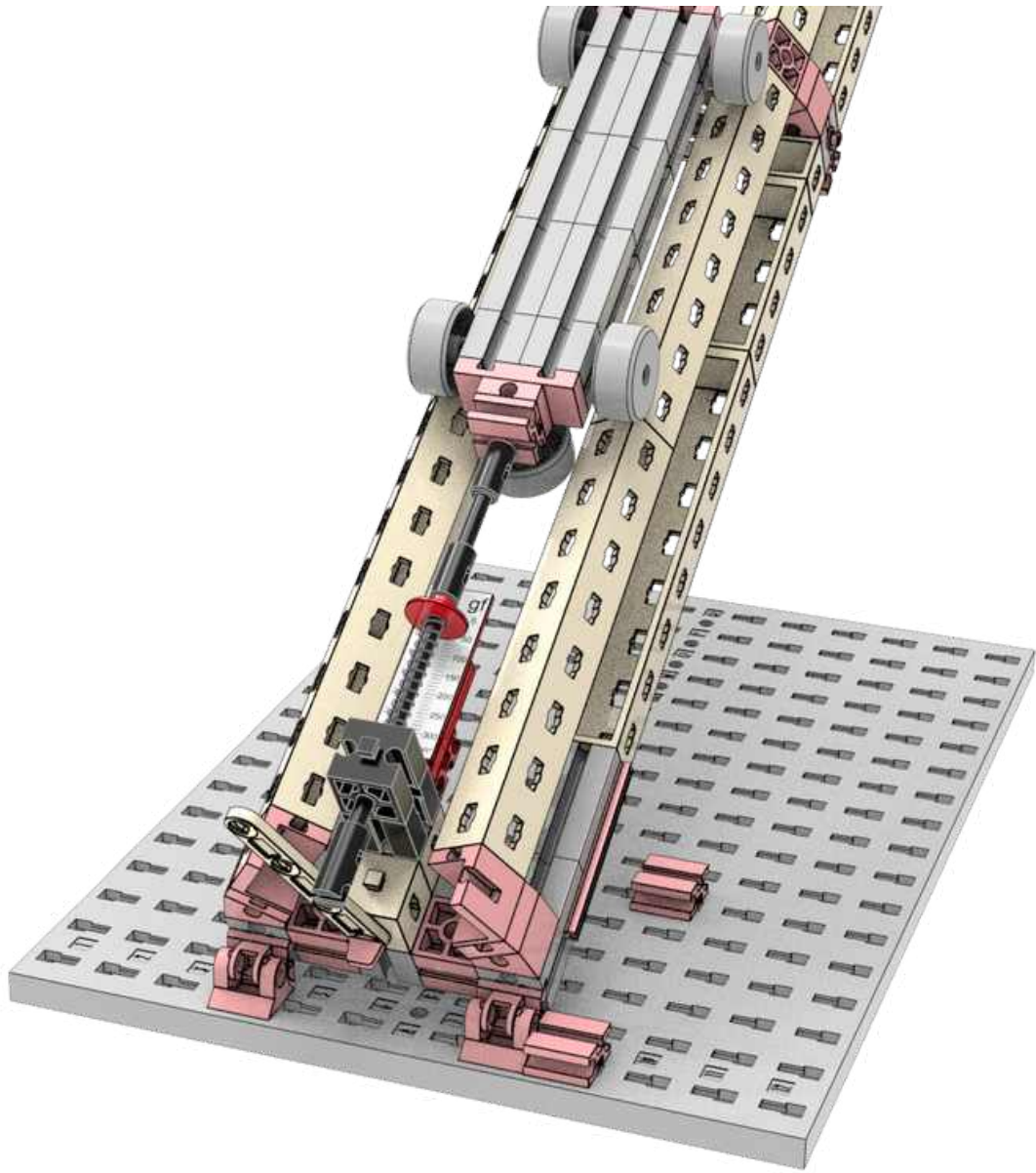




26 75 1x
1x 1x 1x 1x 1x

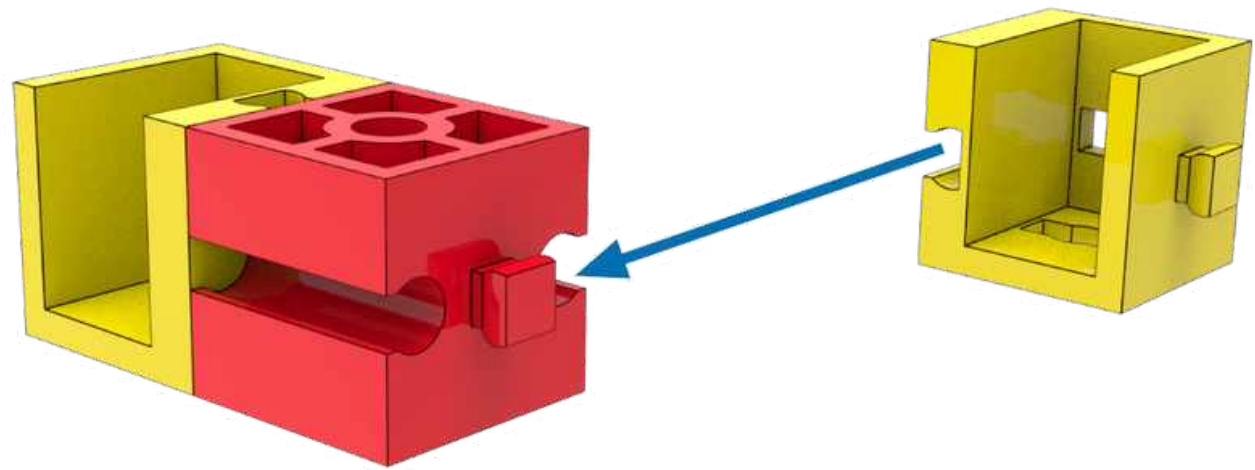






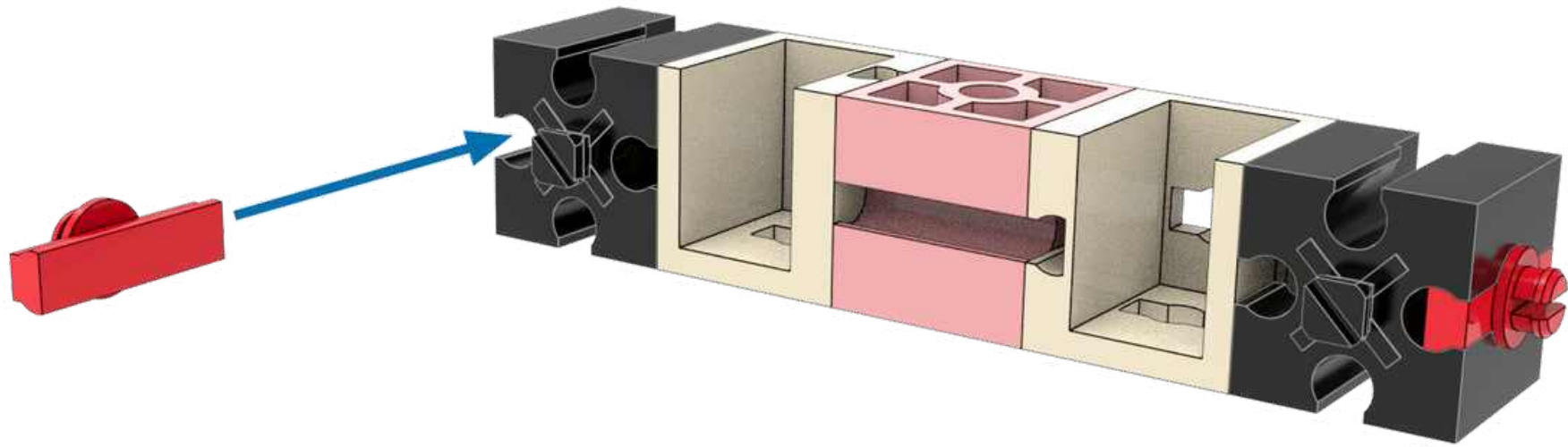
28



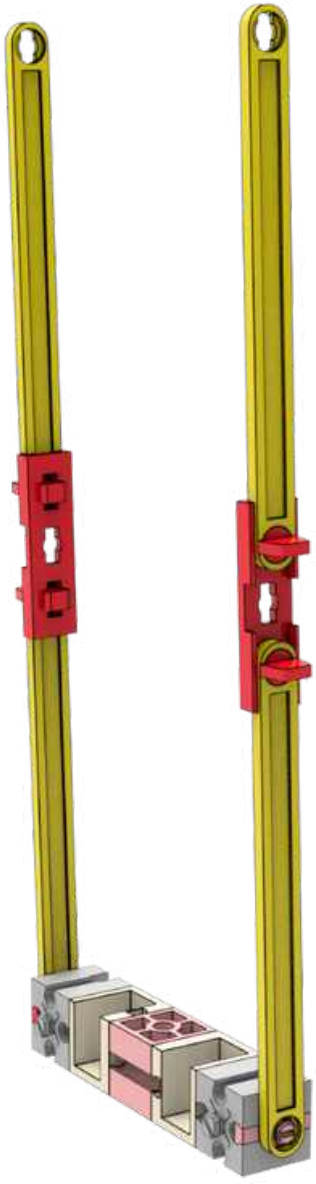
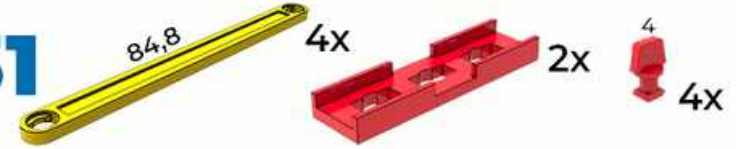
29  1x  2x



30  2x  2x





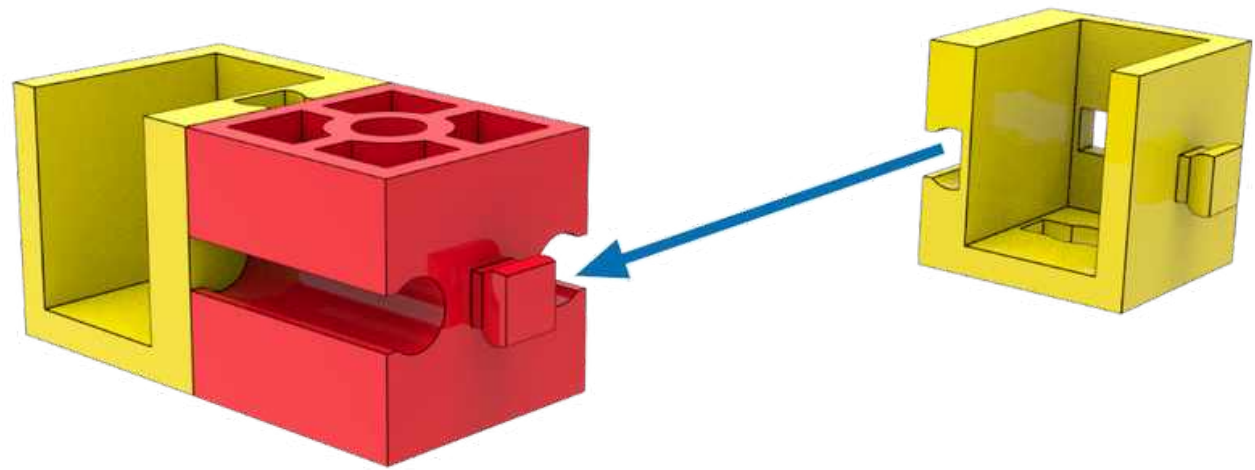
31 84,8 4x 2x 4 4x





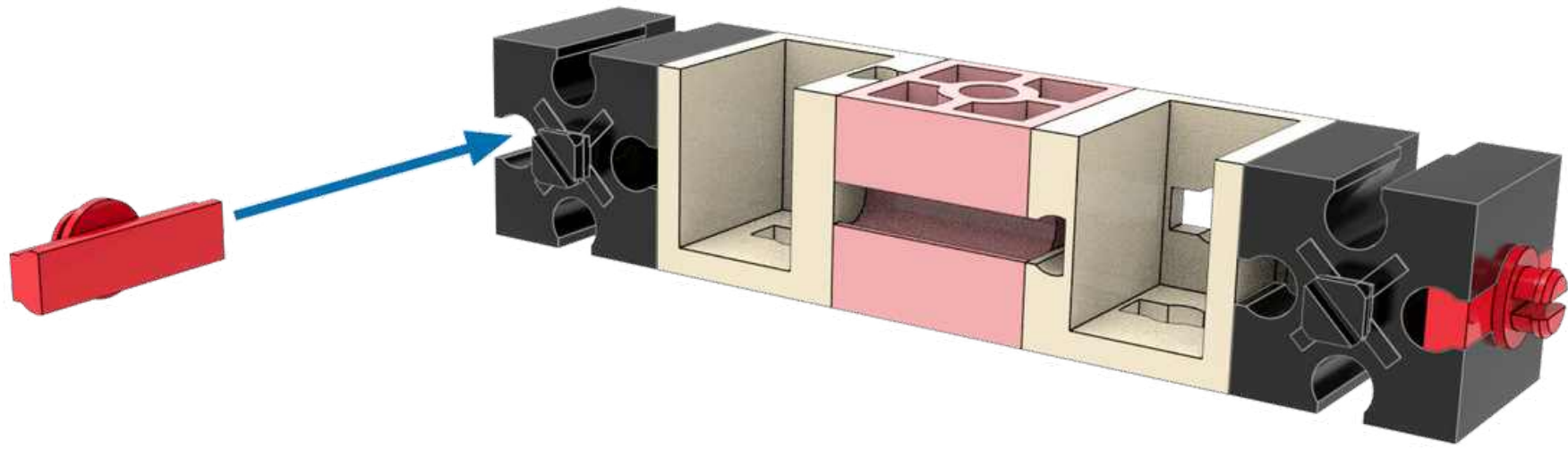
32



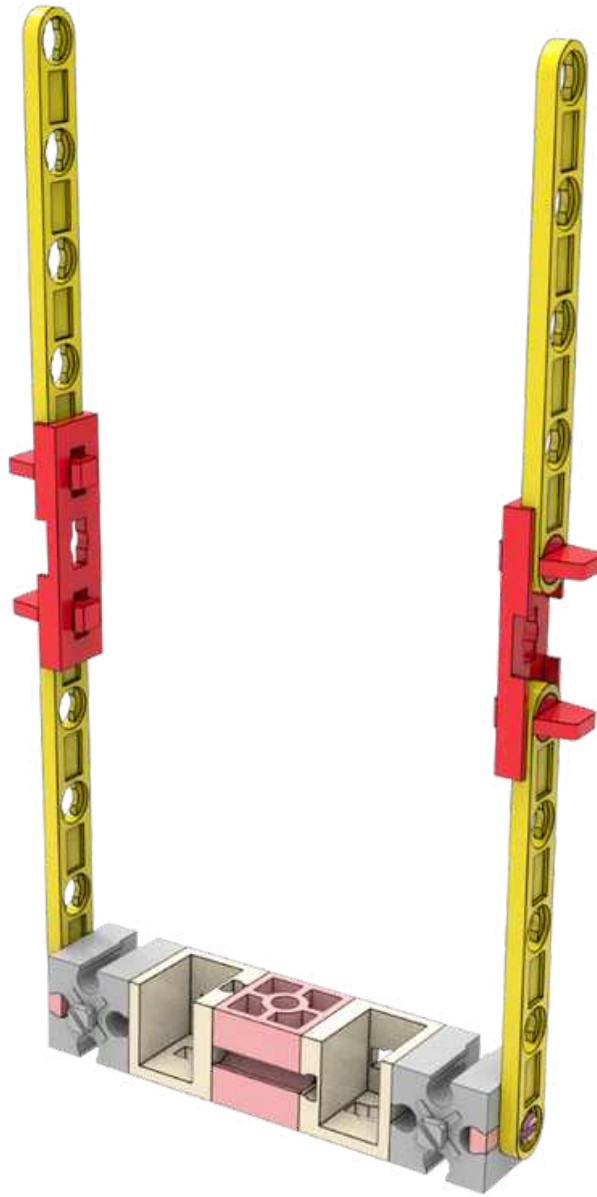

33  1x  2x



34  2x  2x



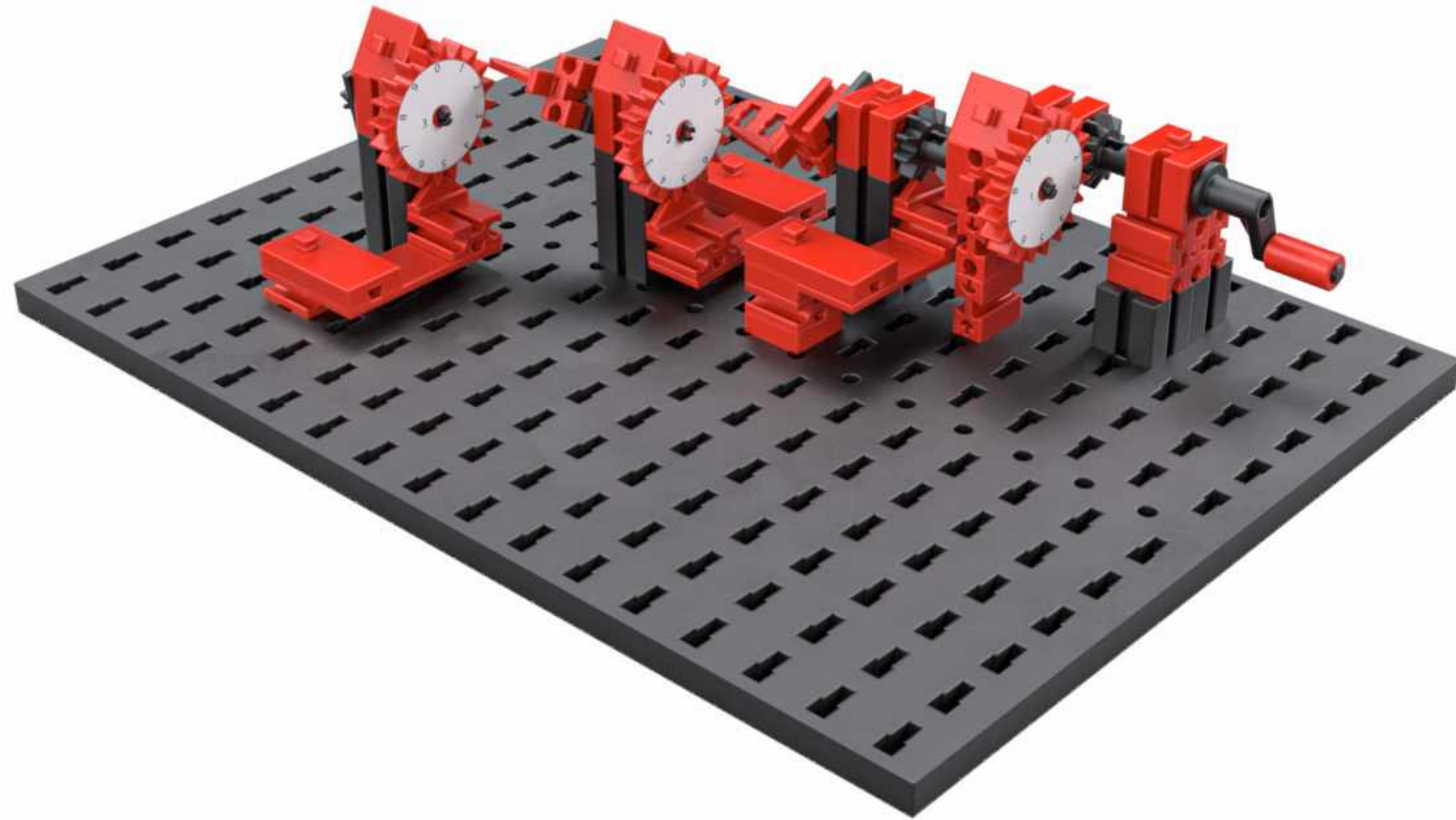
35 60 4x 2x 4 4x

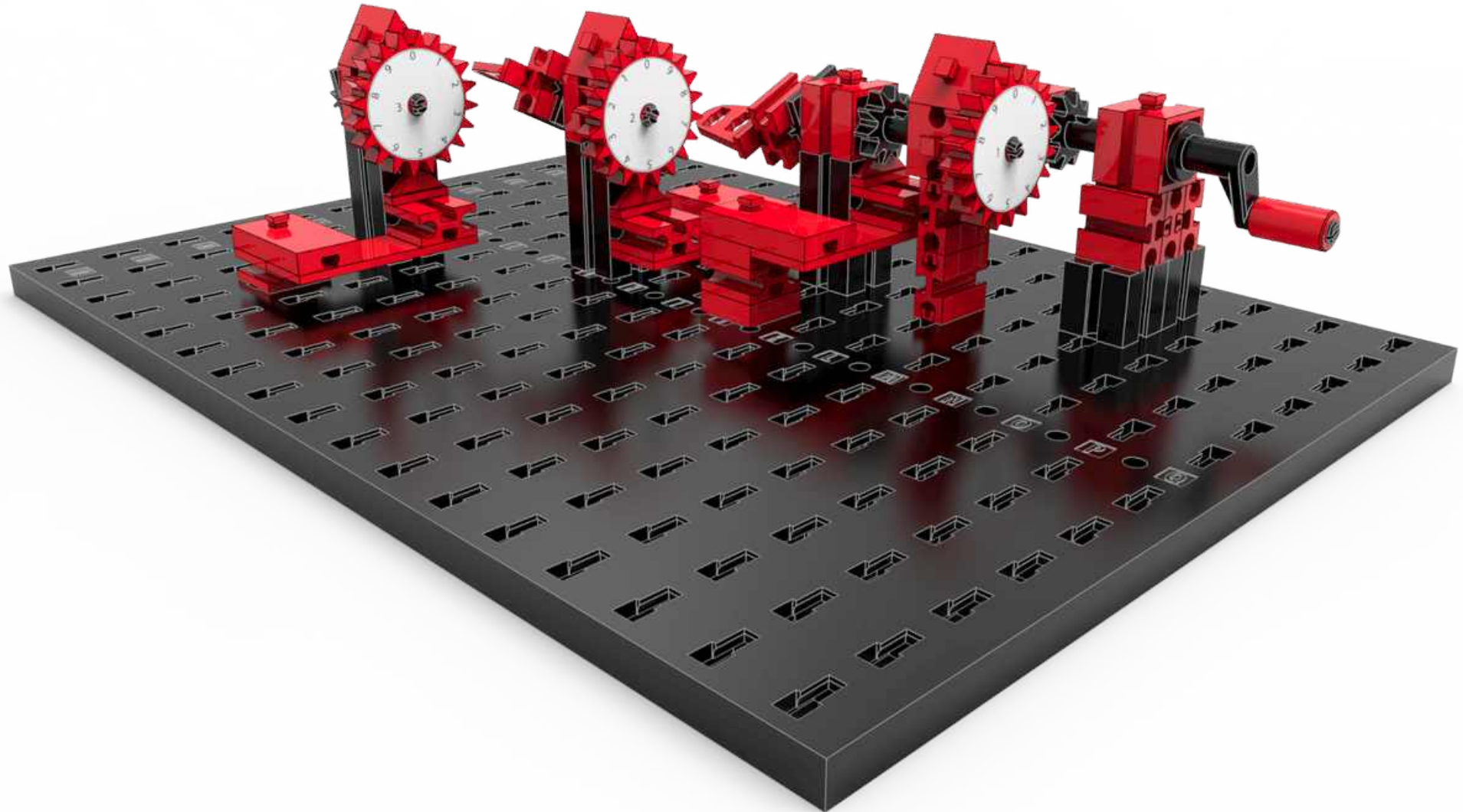


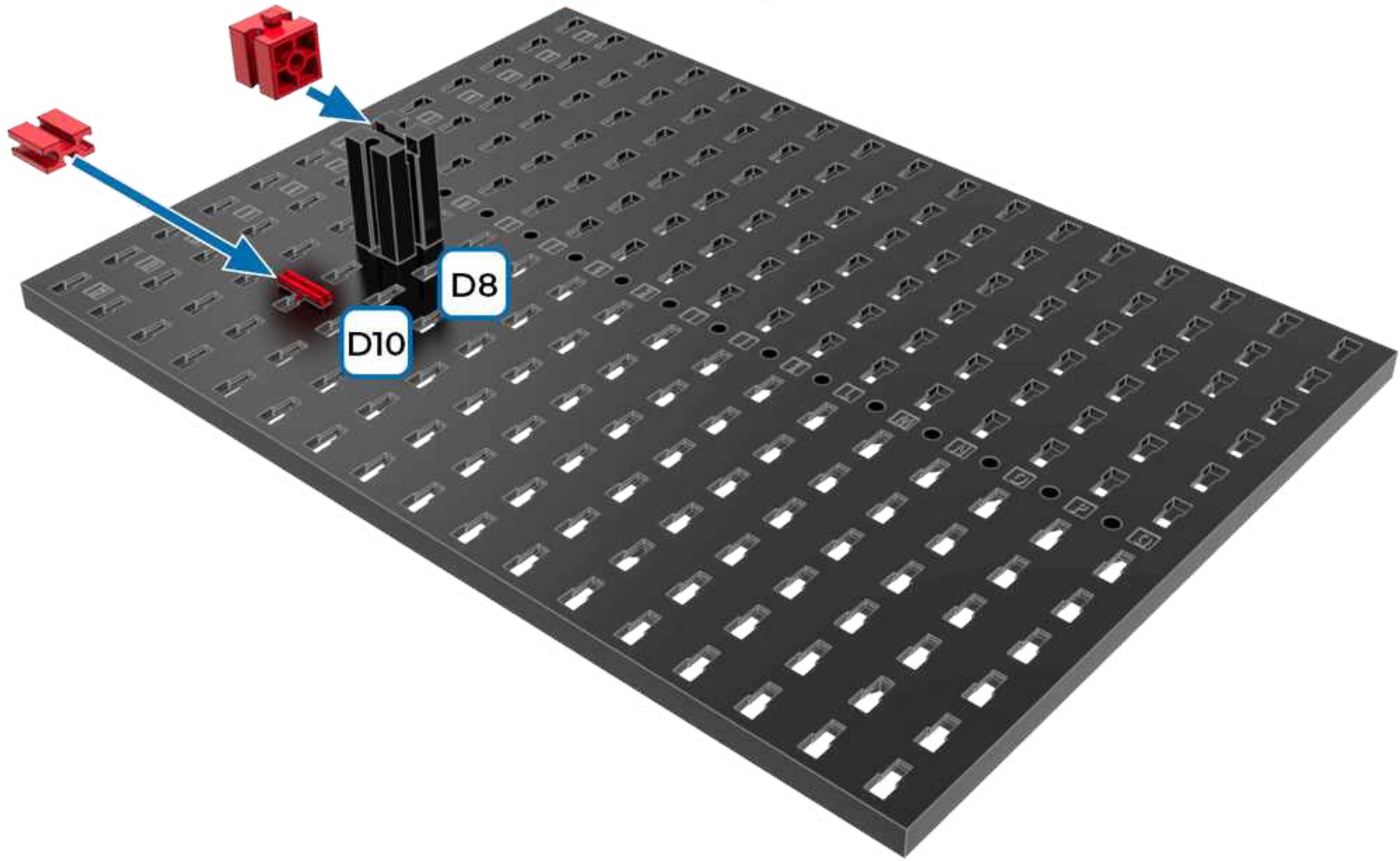
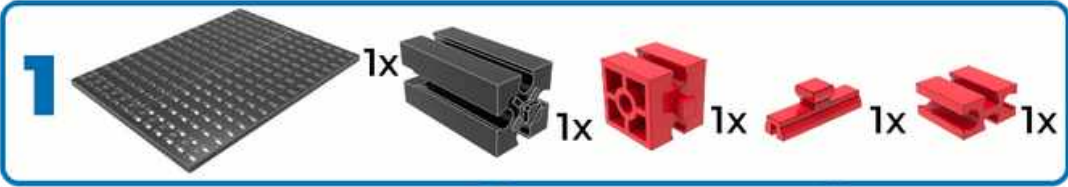
36

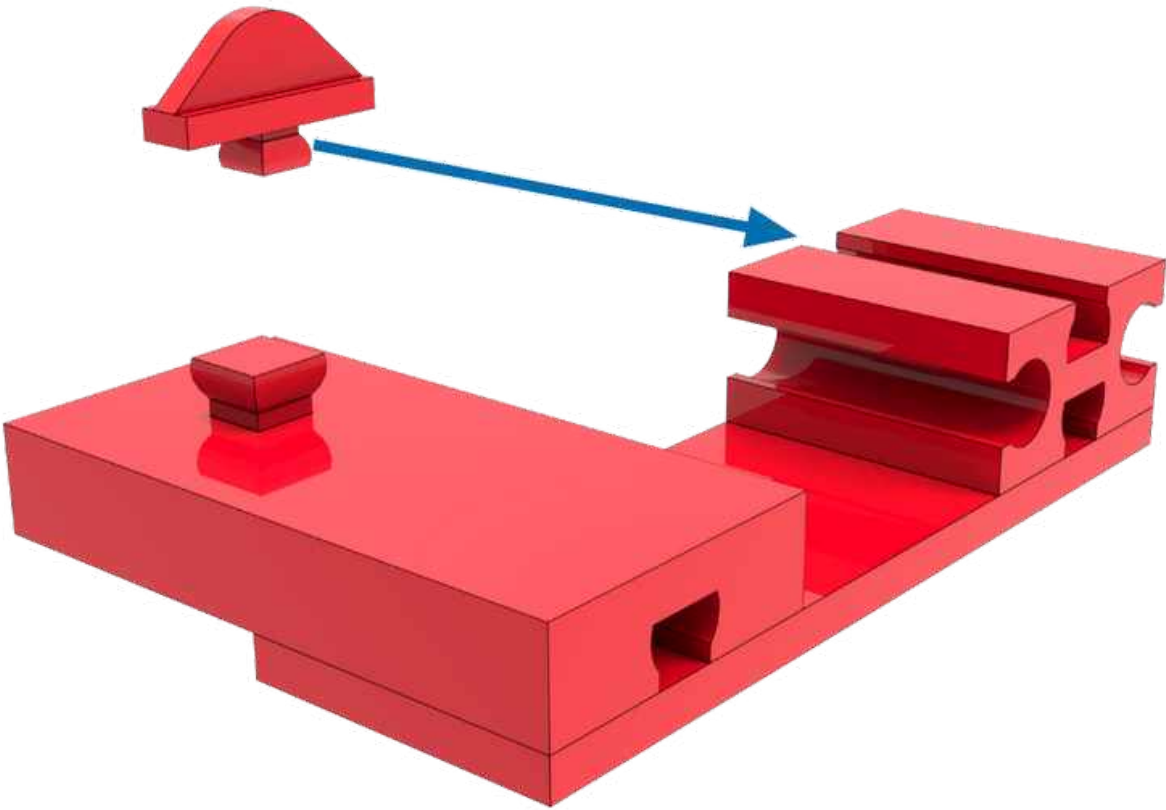
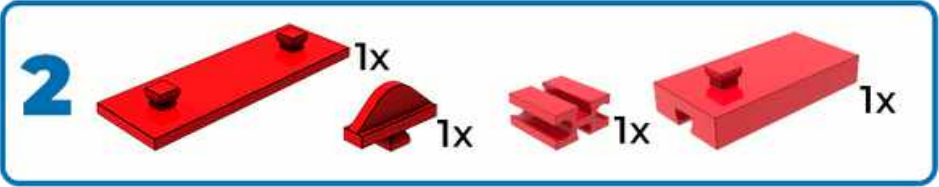


Zählwerk

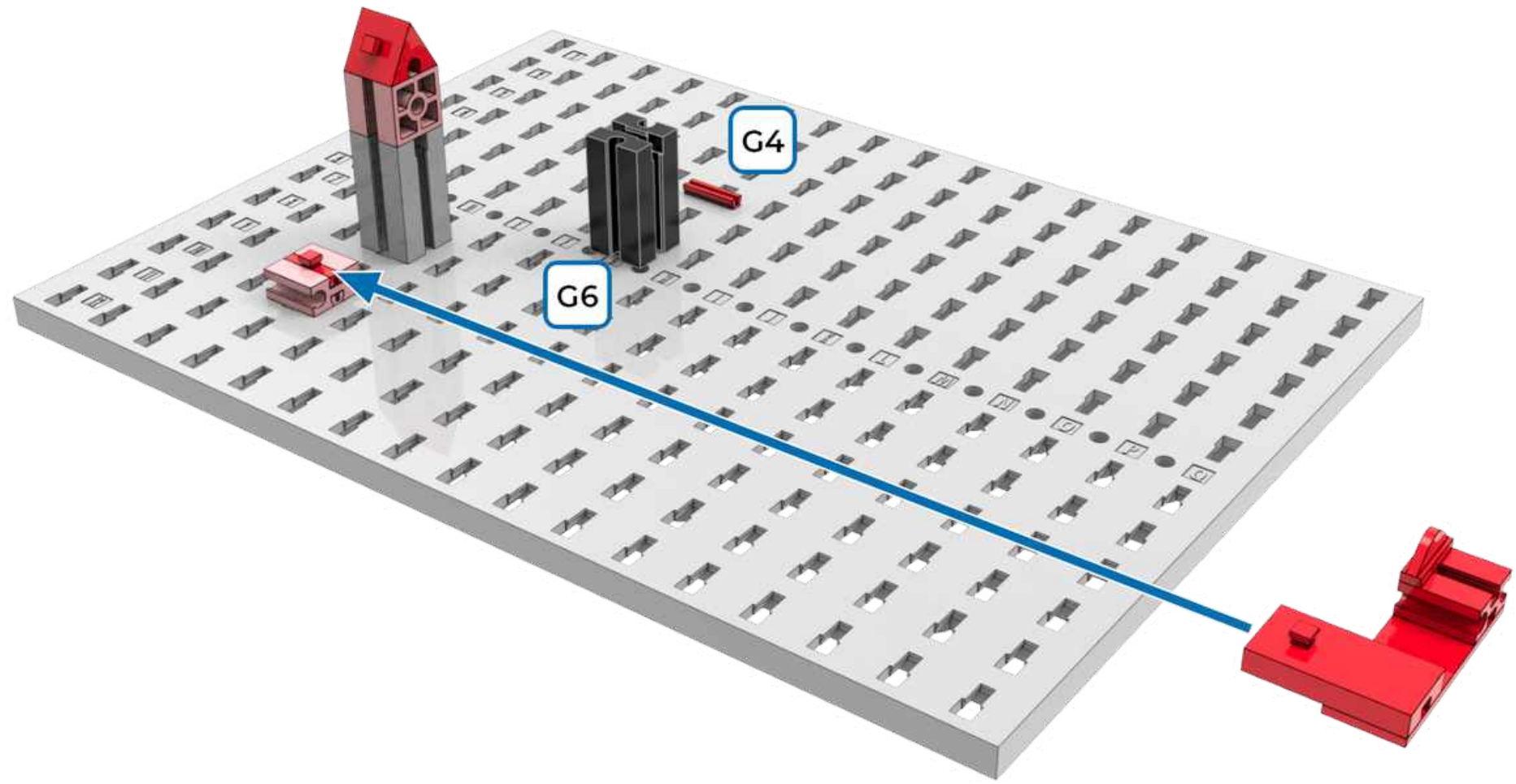



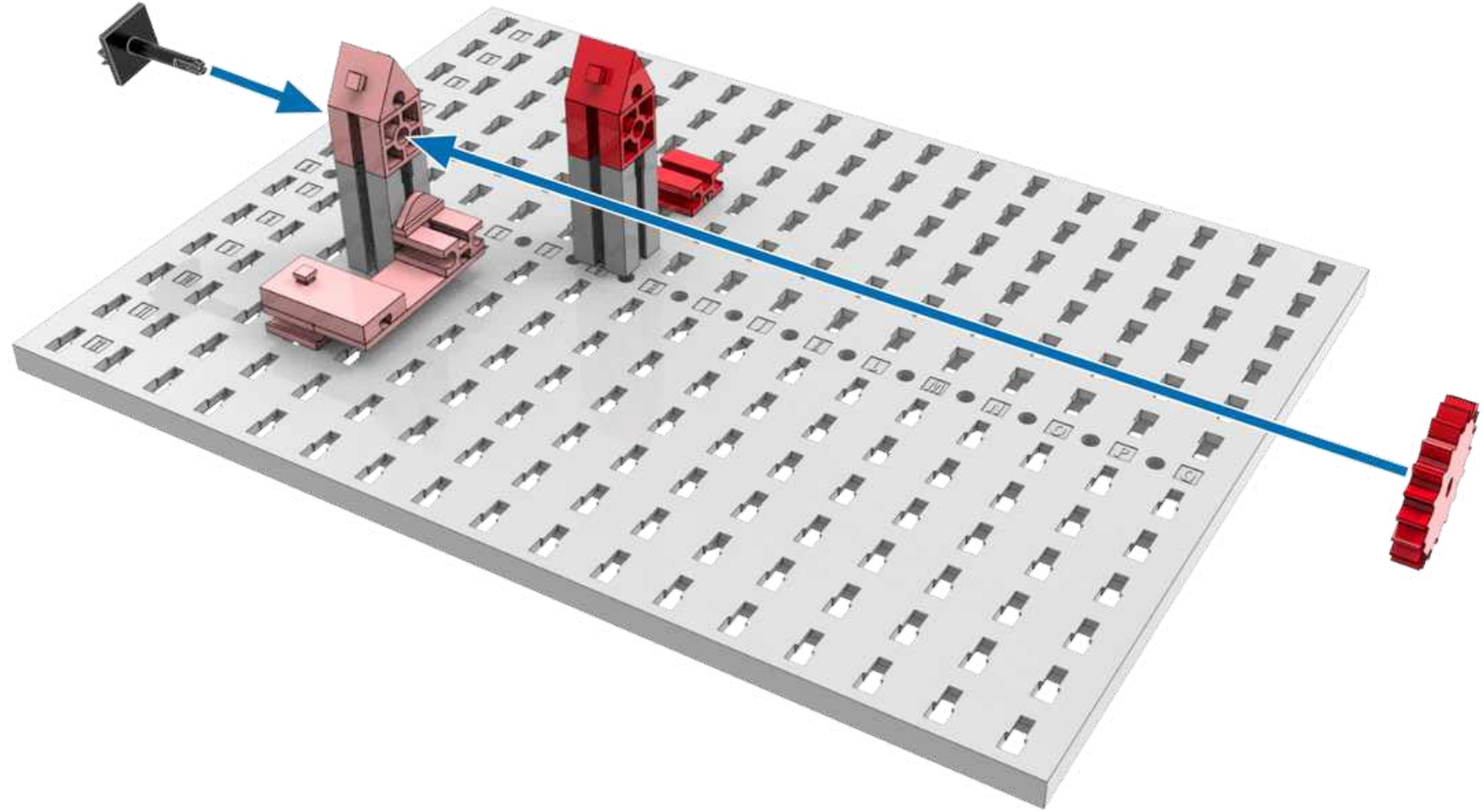
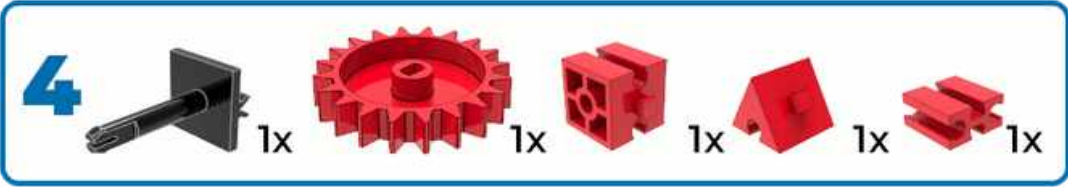


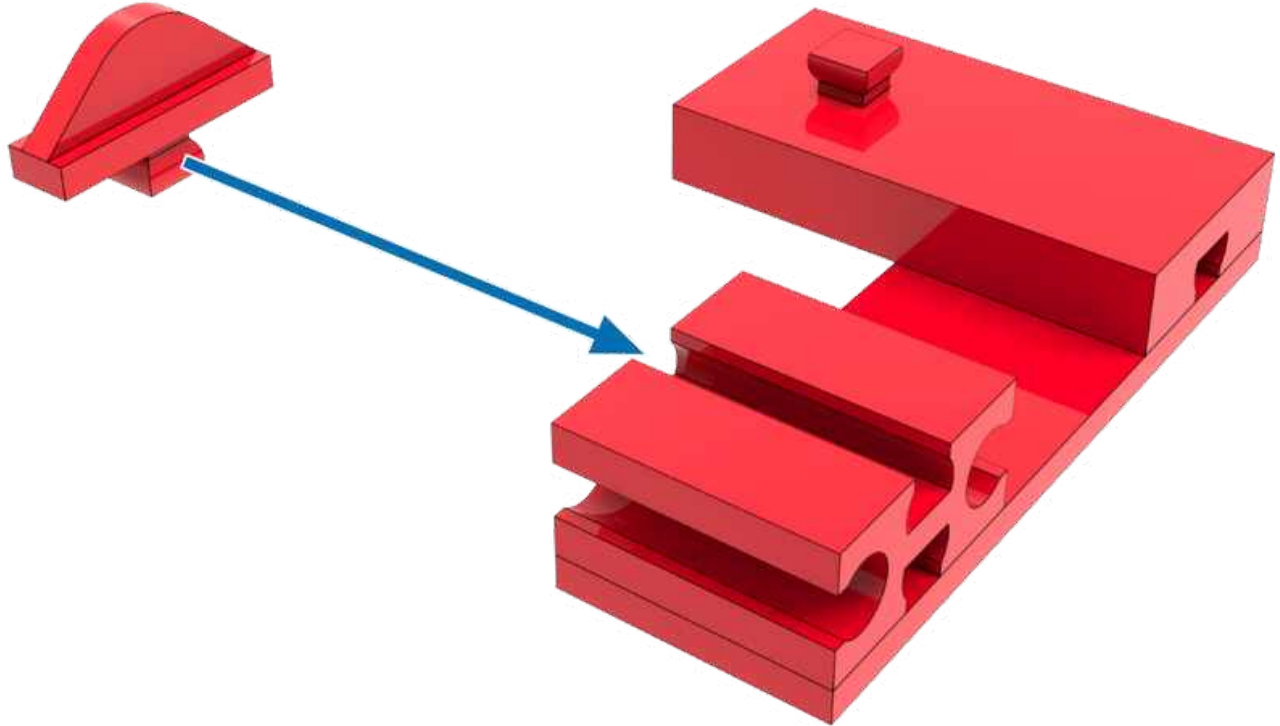
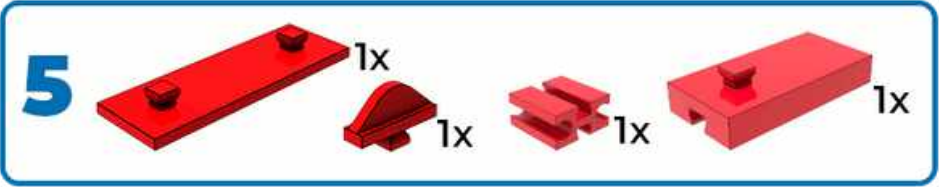






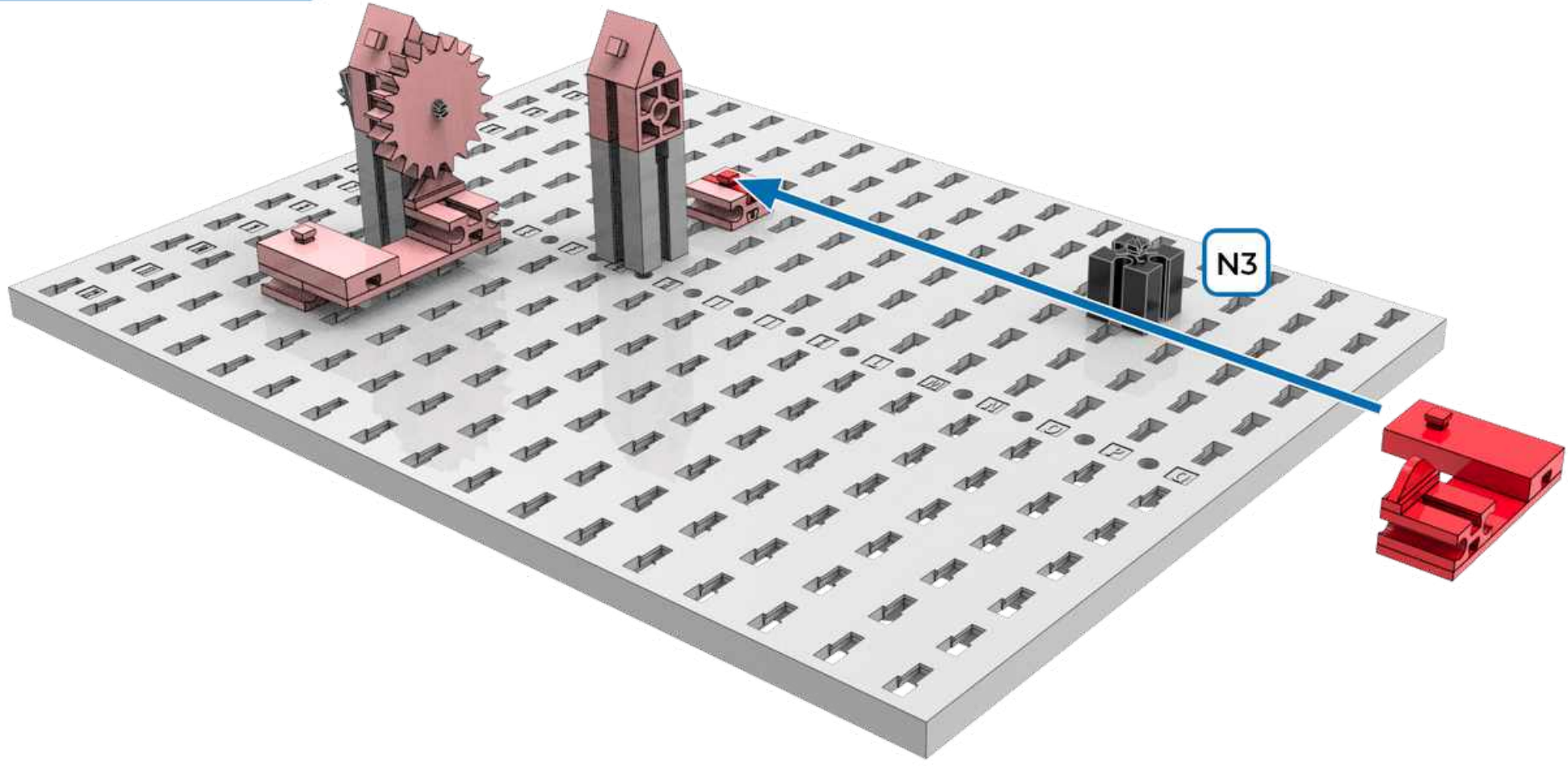
3 1x 1x 1x 2x






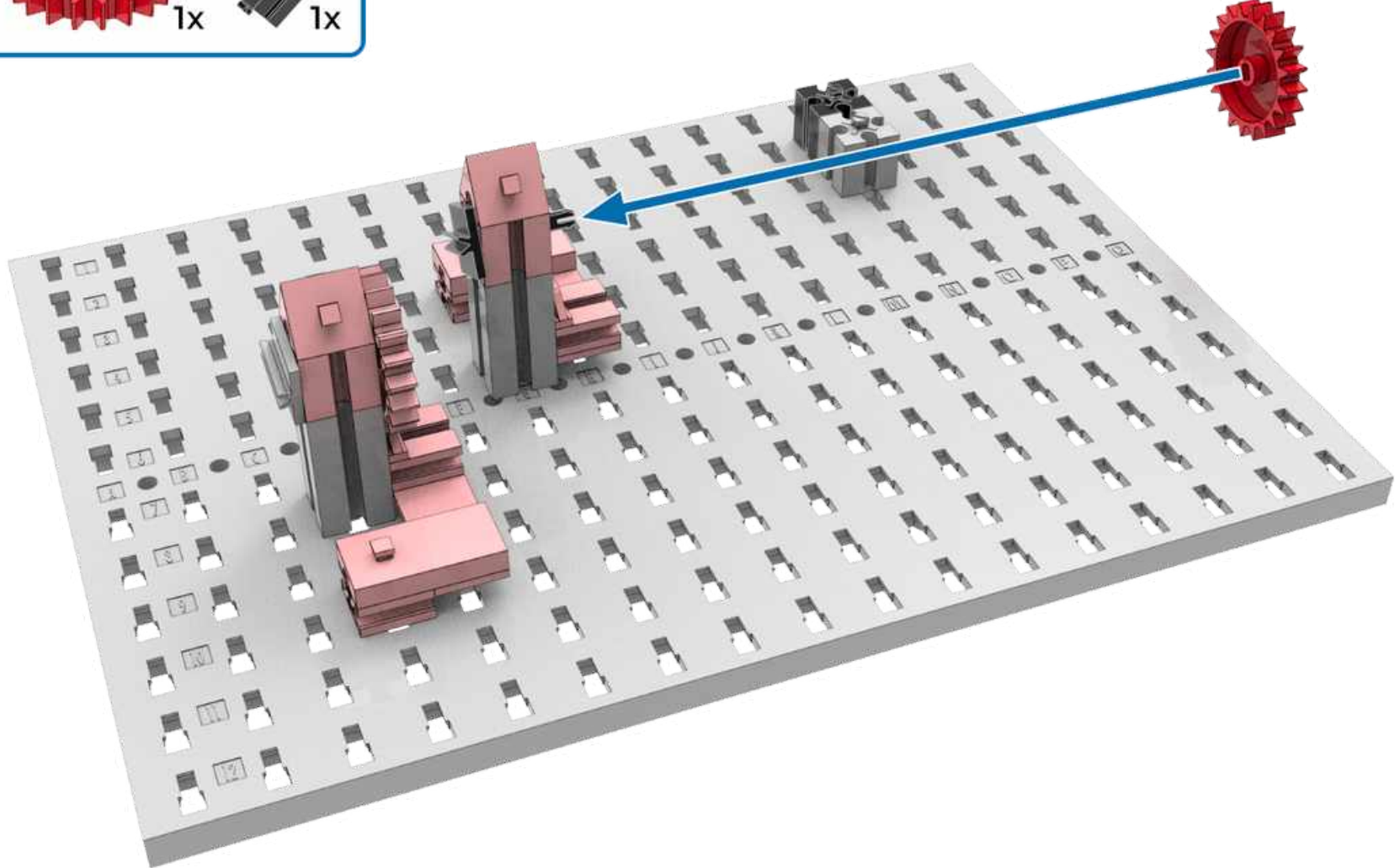






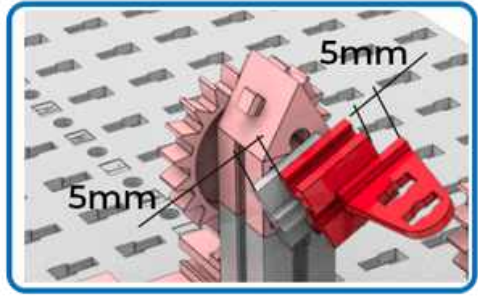
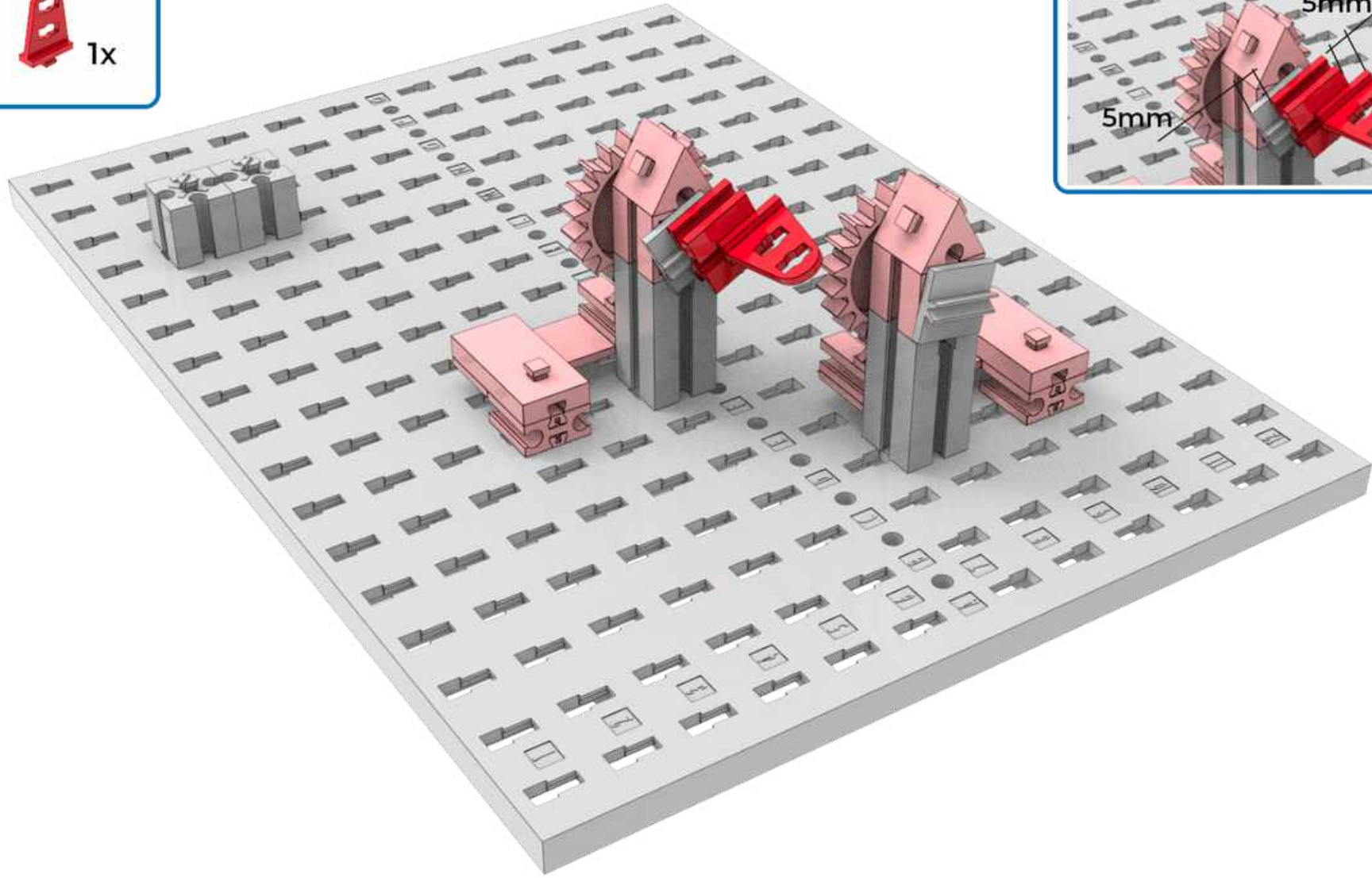
6  1x  1x




7  1x  1x  1x



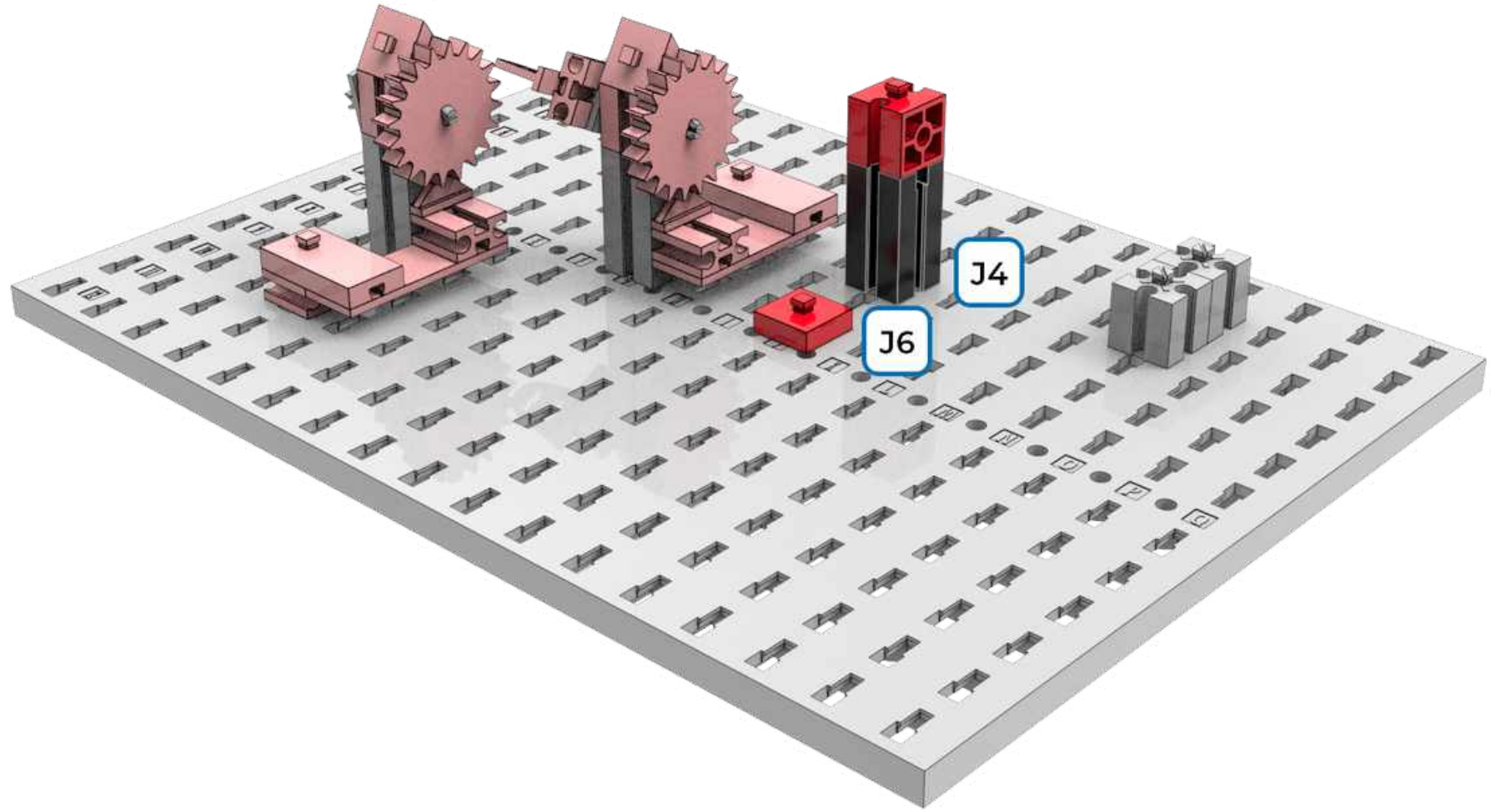
8  1x  1x

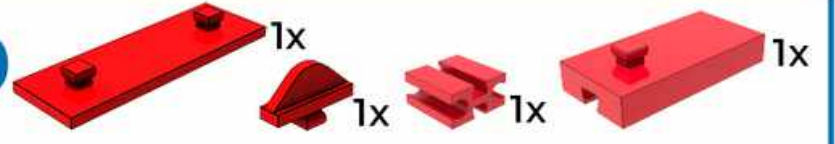


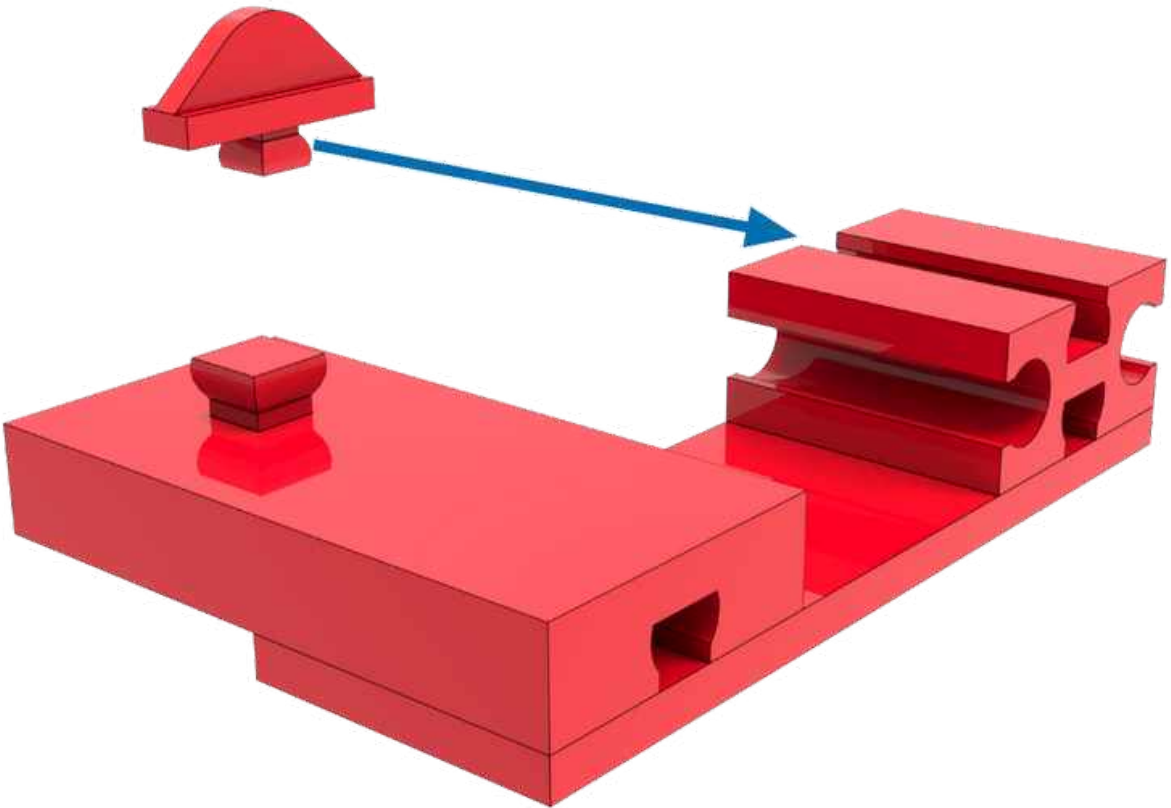
9





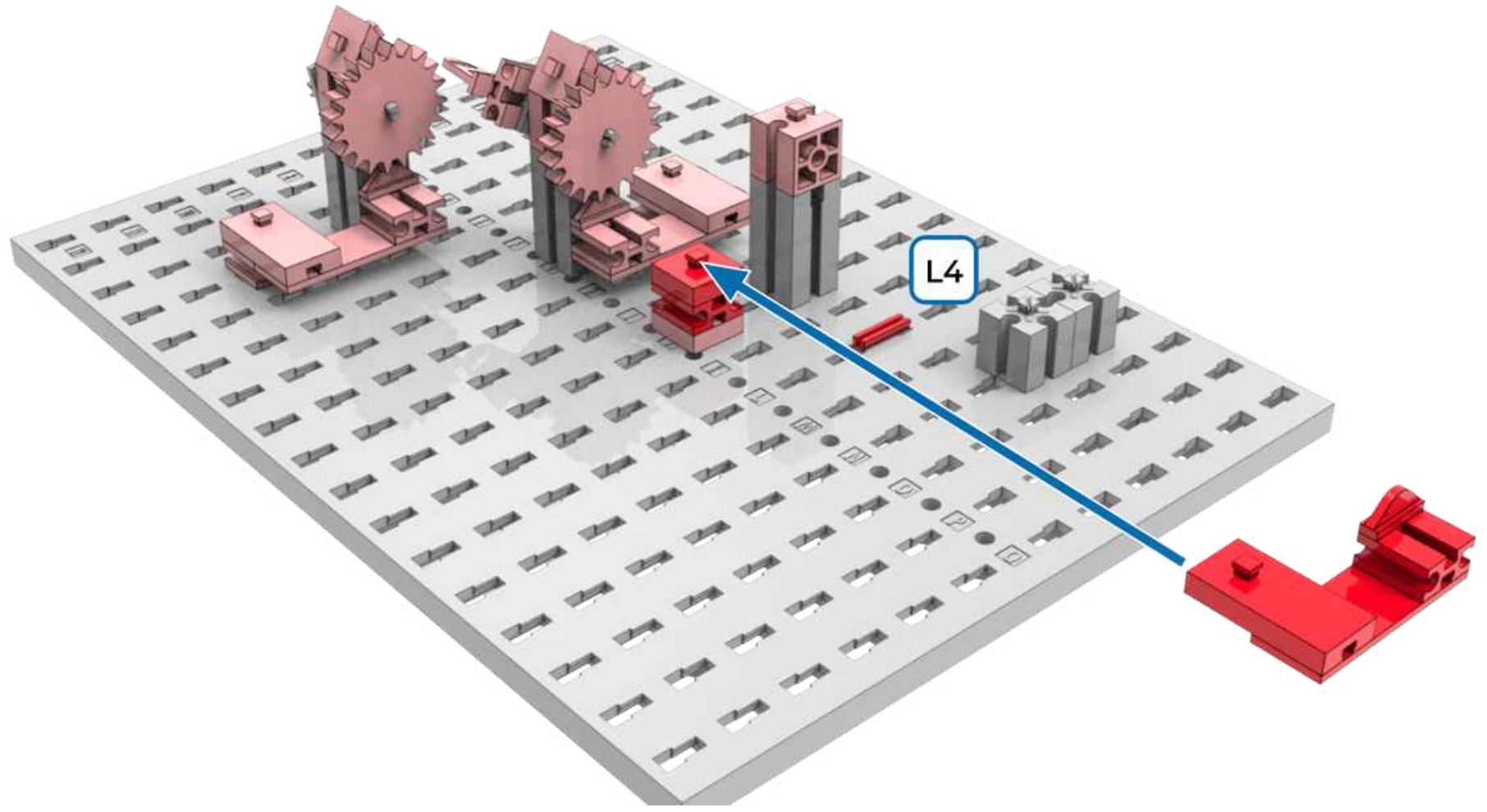
1x 1x 1x






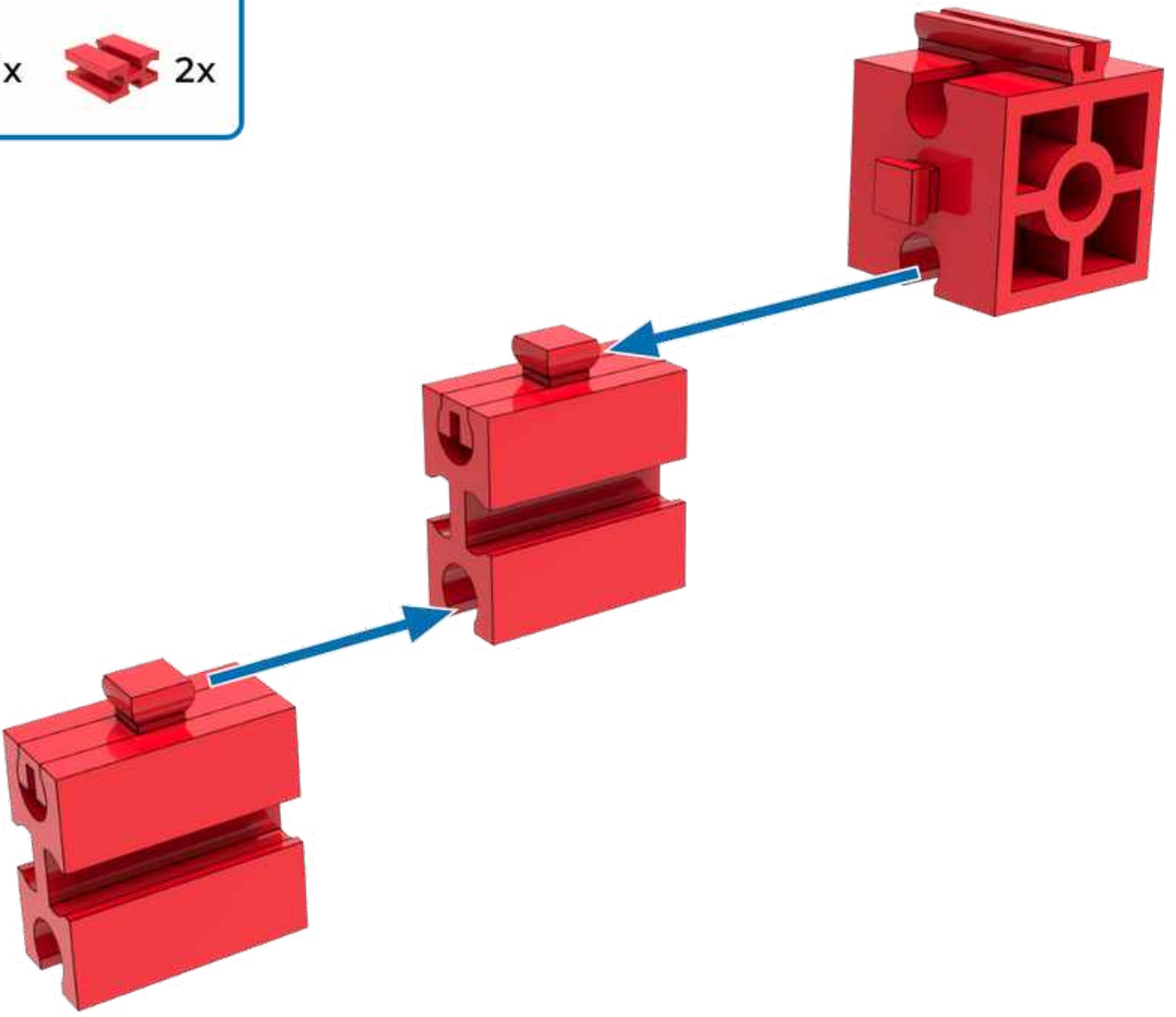
10  1x 1x 1x 1x



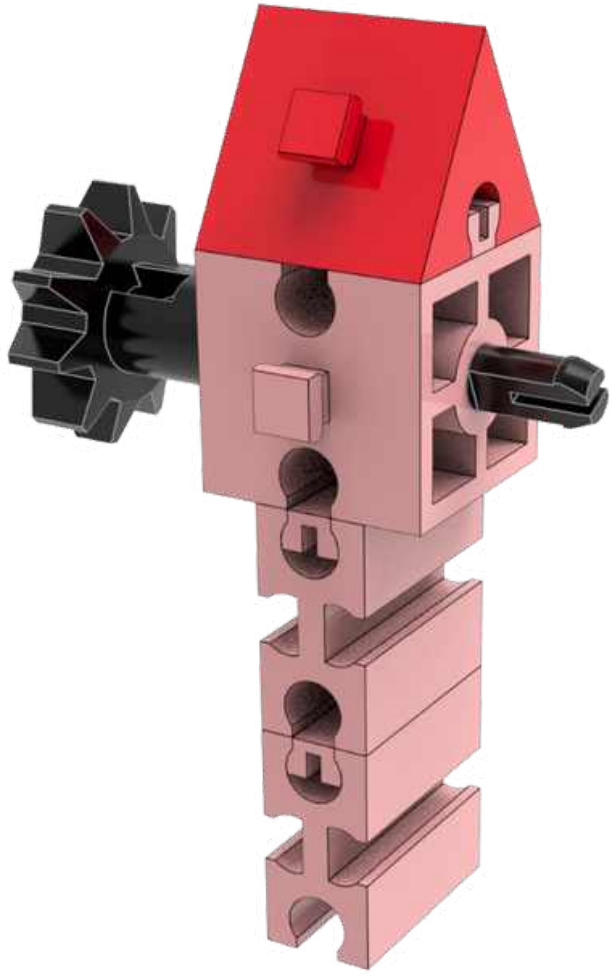
11  1x  1x  1x





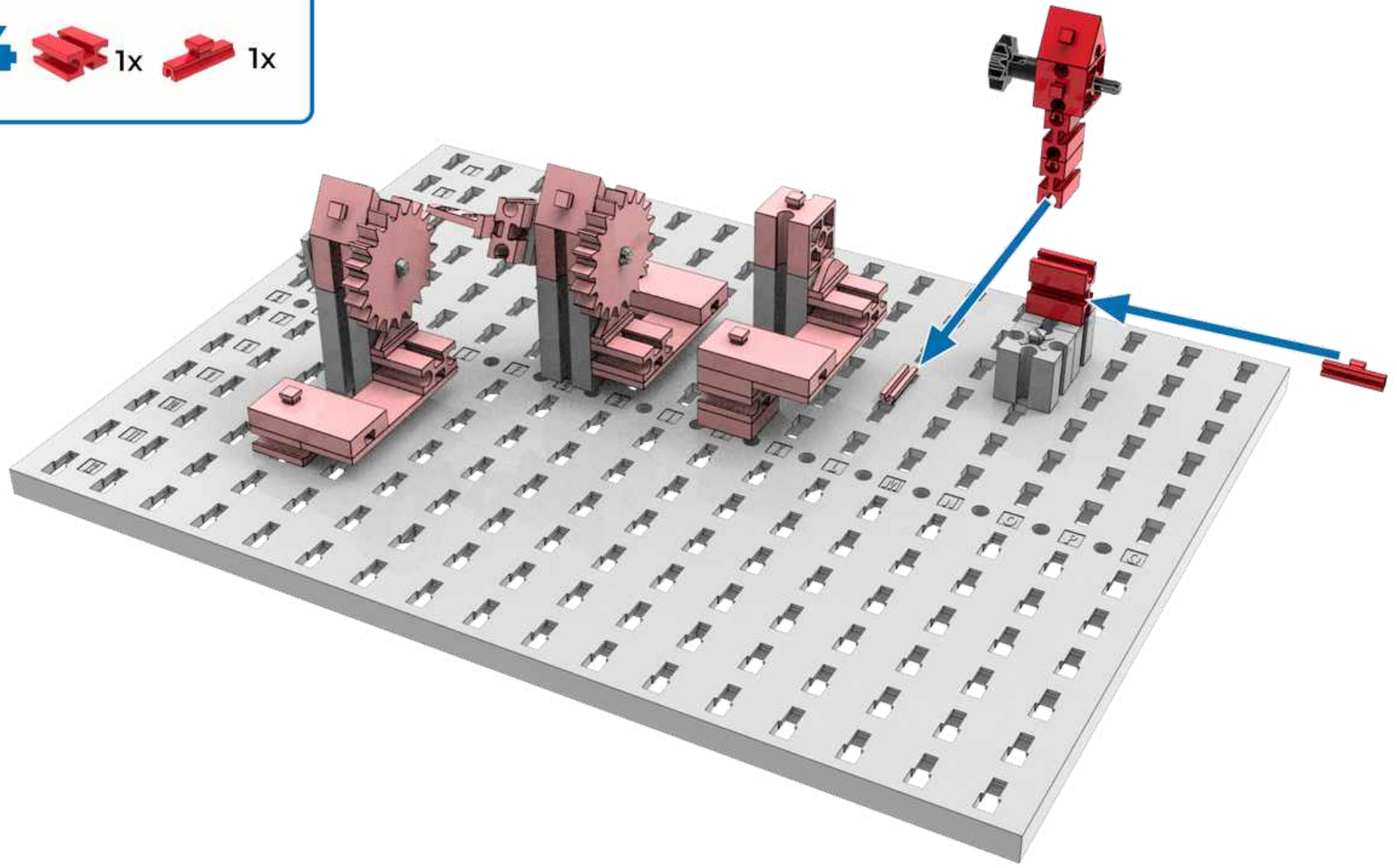
12  3x  1x  2x






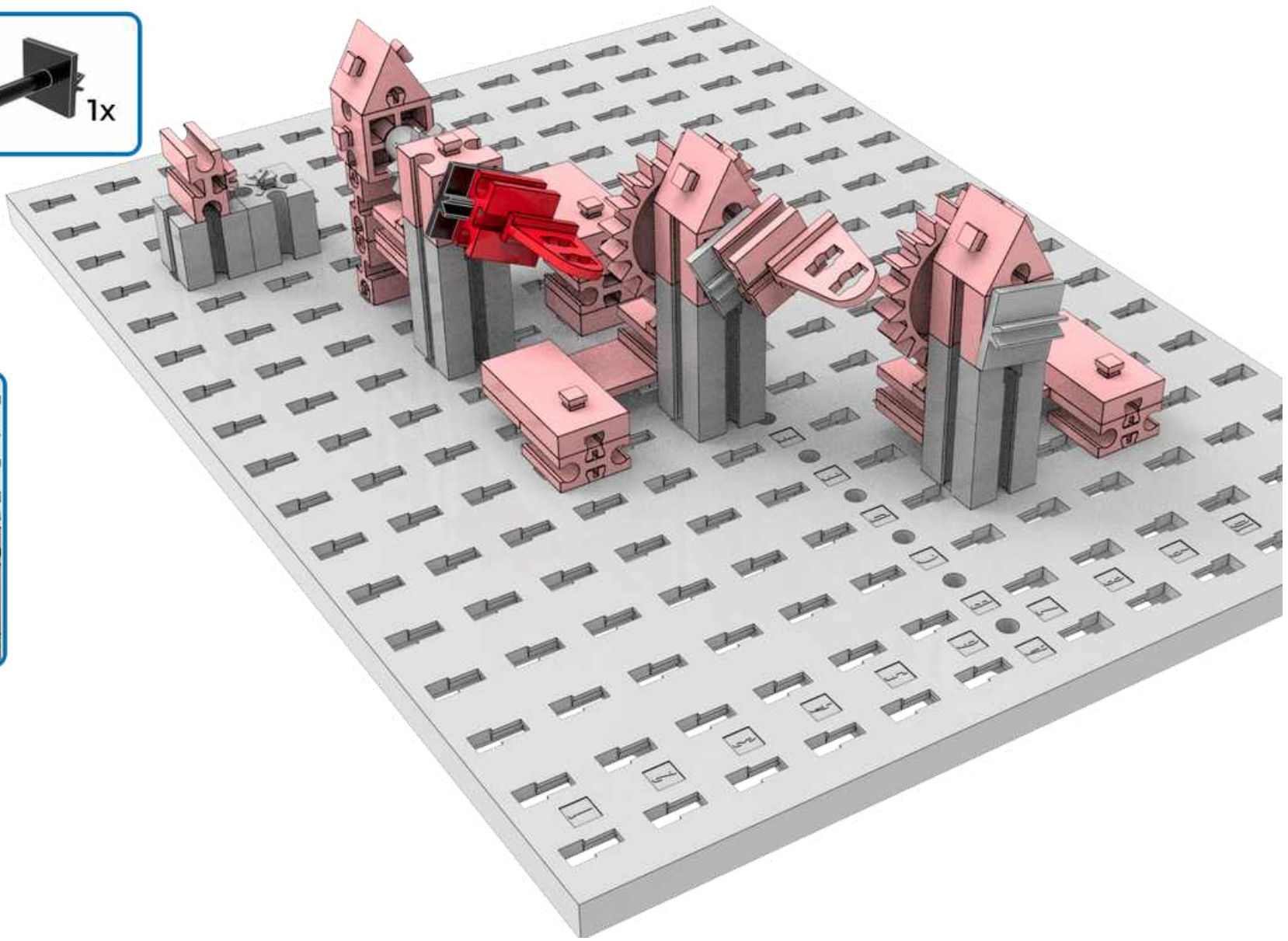
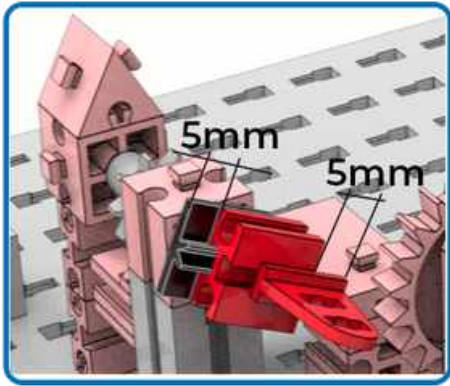
13  1x  30 1x  1x






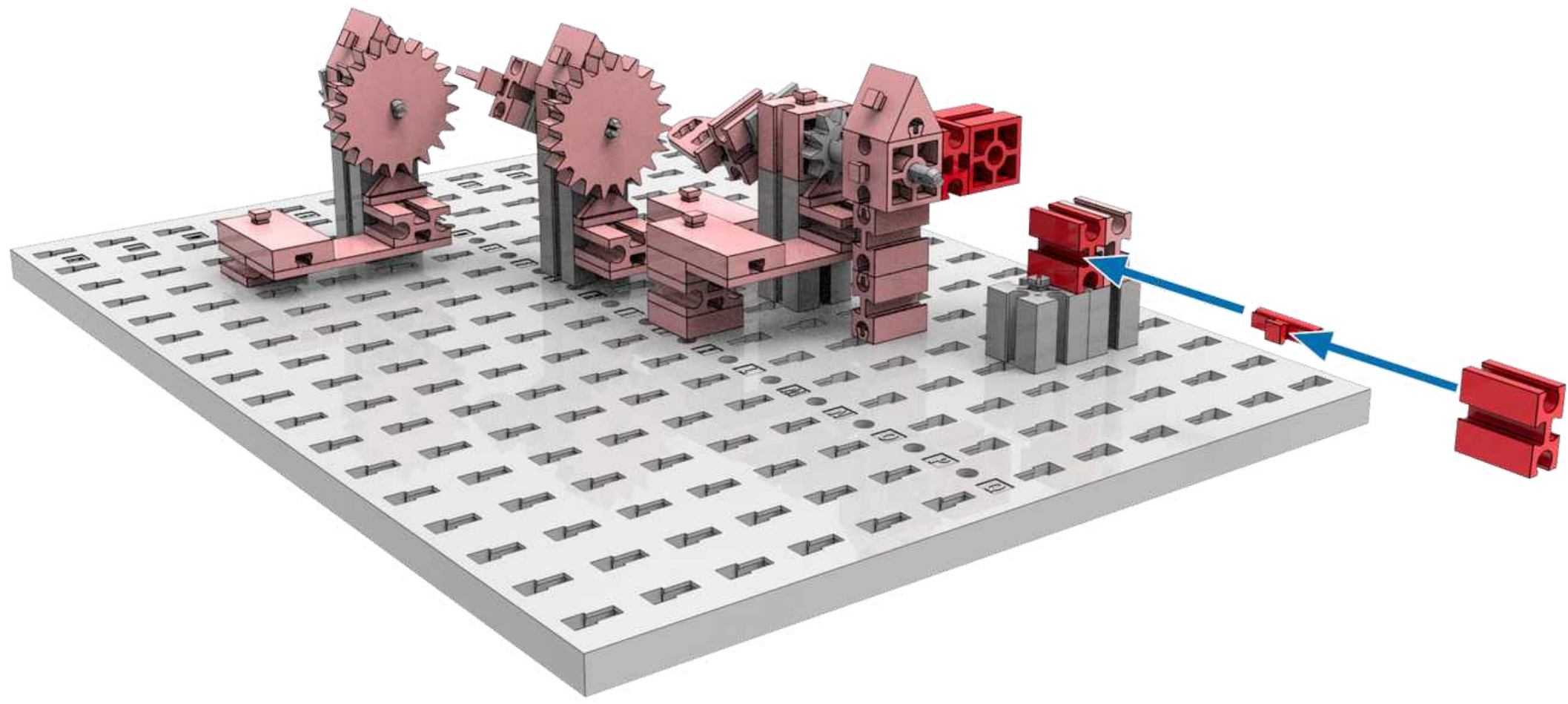
14  1x  1x




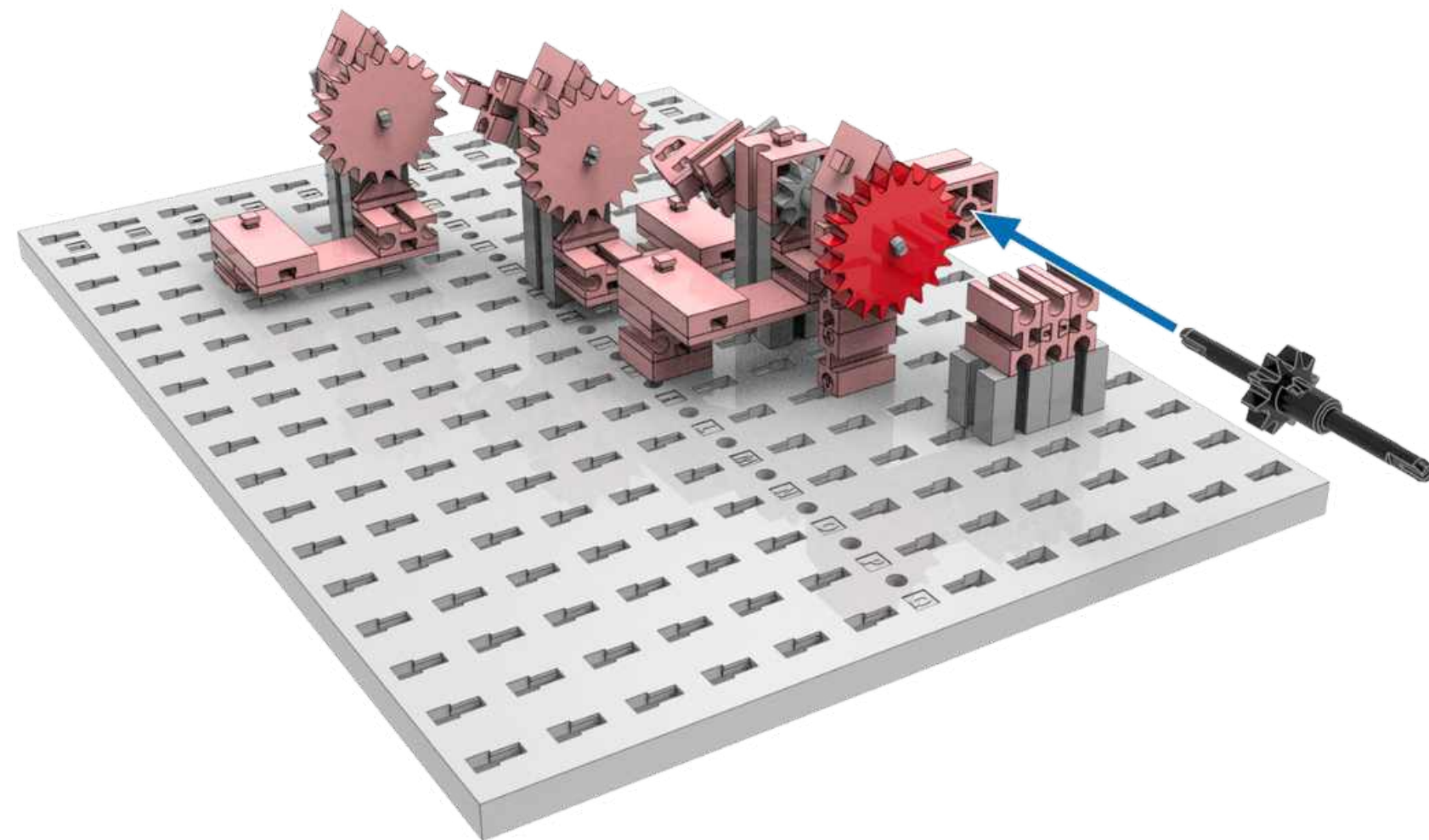
15  1x  1x  1x



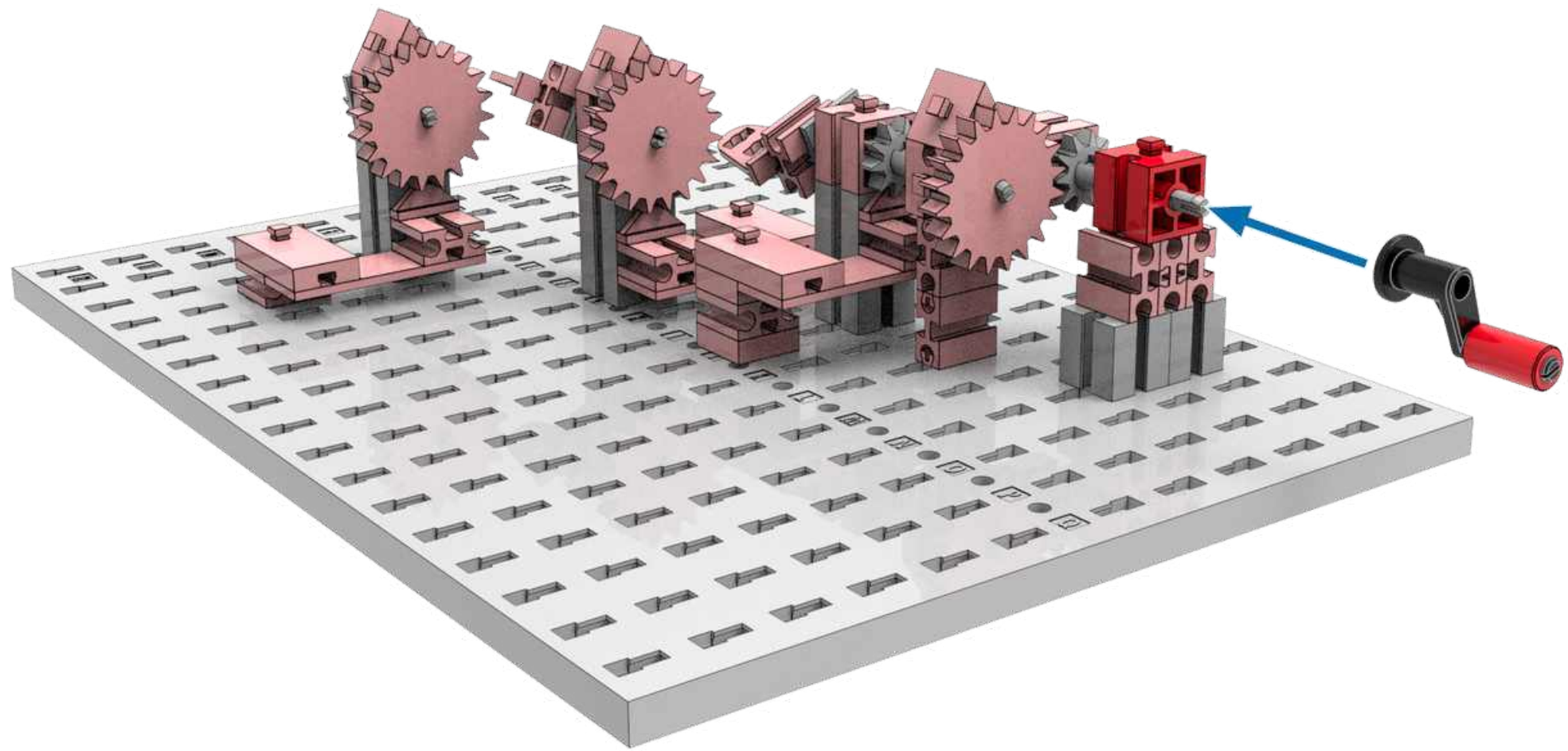
16  3x  1x  1x




17  1x  30 2x  1x



18  1x  1x  1x



19

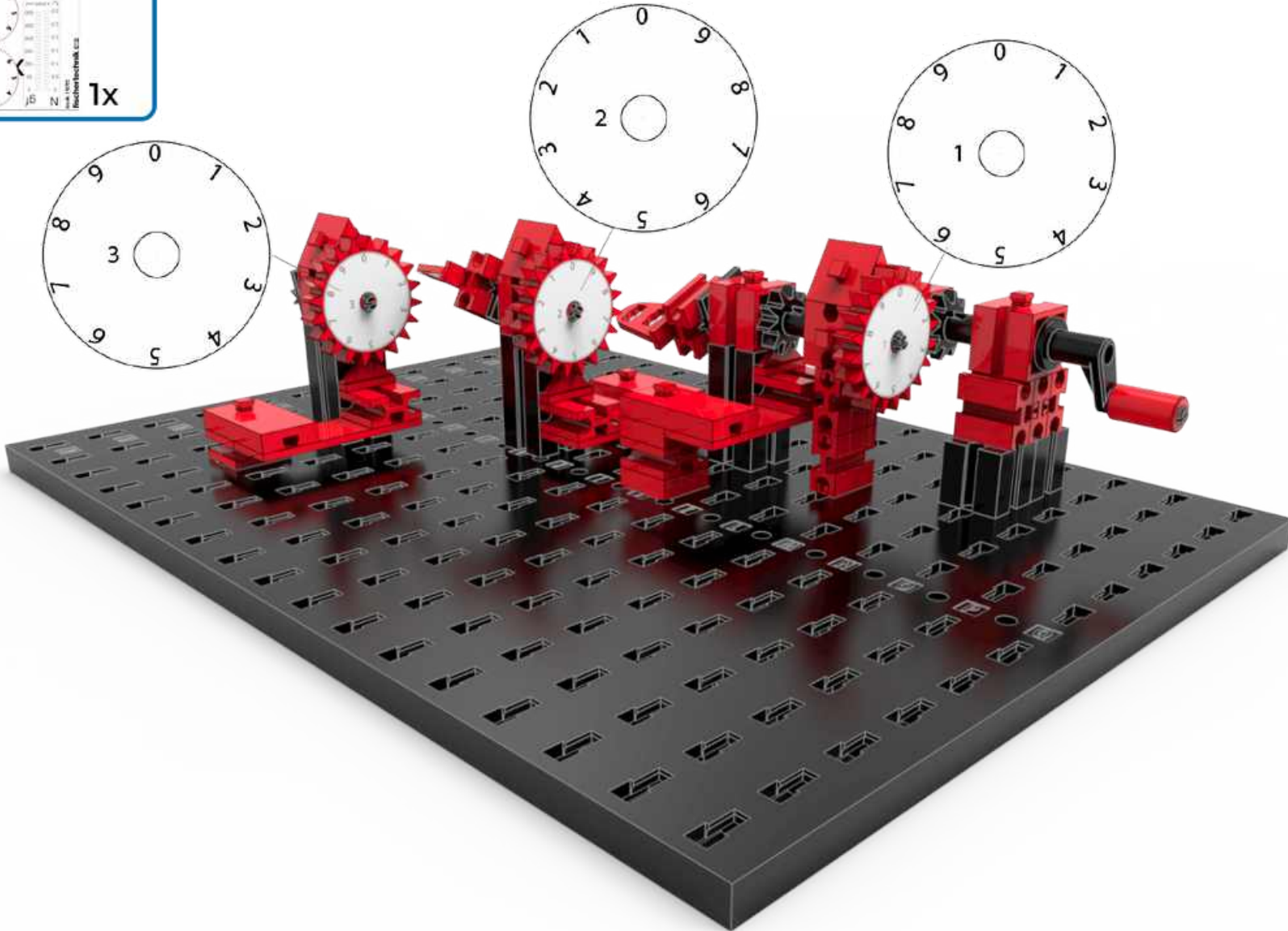


1x

2 3 4 5 6 7 8 9 0
1 2 3 4 5 6 7 8 9 0
1 2 3 4 5 6 7 8 9 0

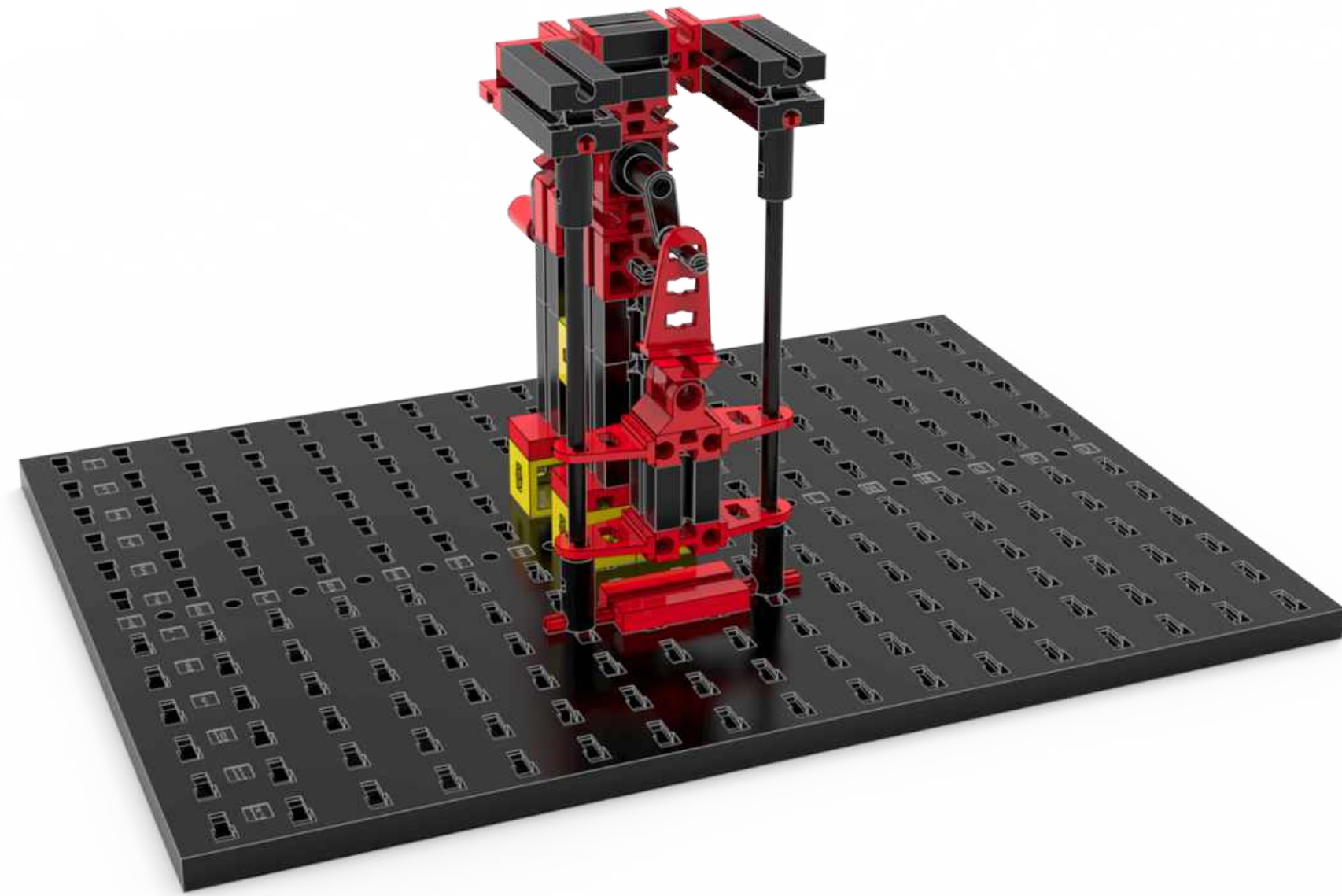
1x

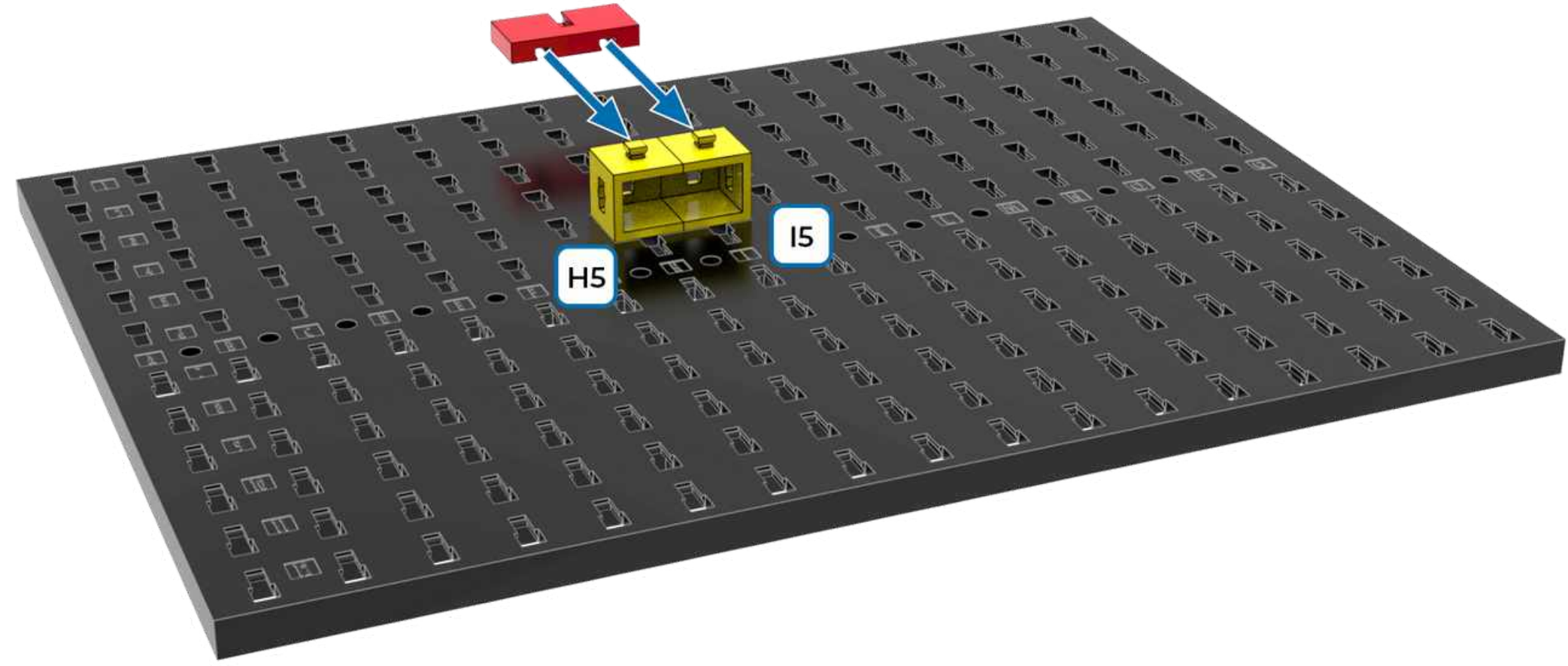
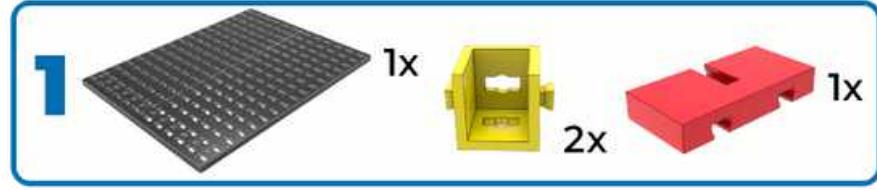
2 3 4 5 6 7 8 9 0
1 2 3 4 5 6 7 8 9 0
1 2 3 4 5 6 7 8 9 0





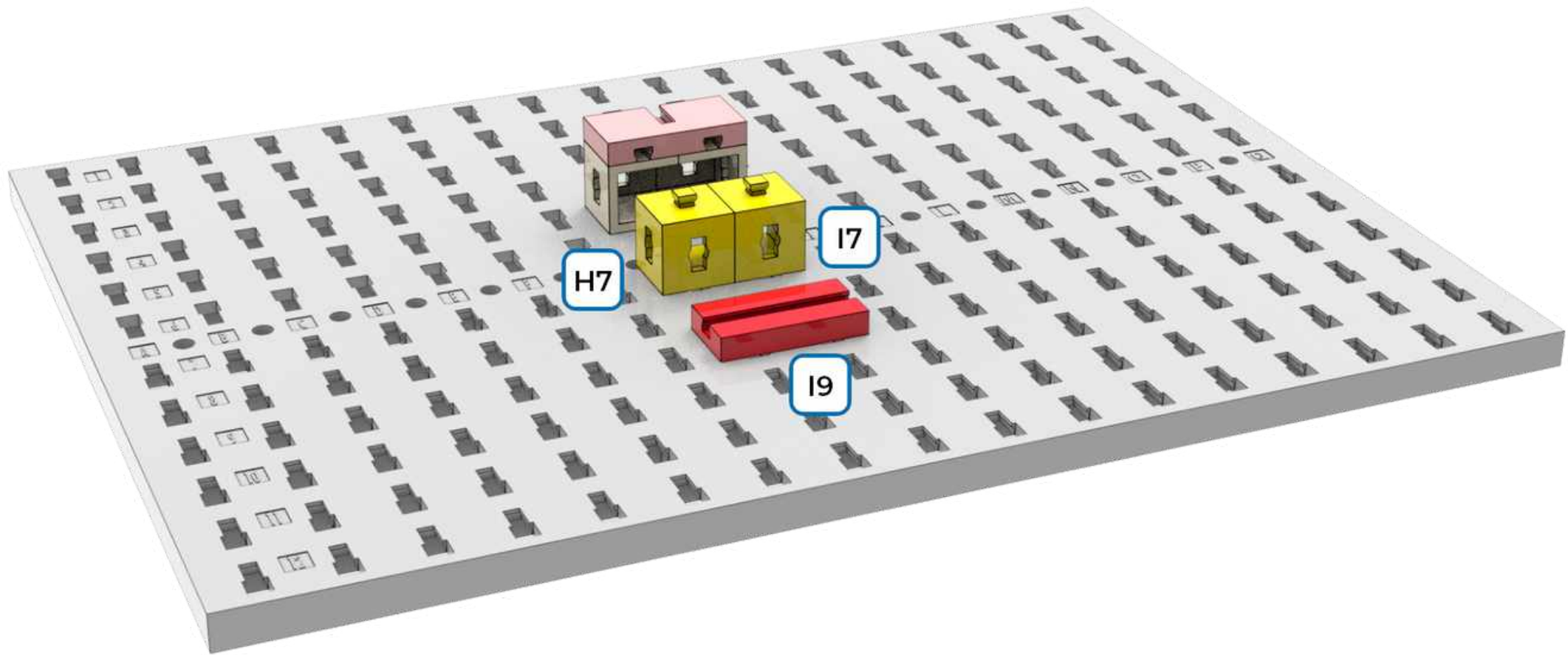
Exzenterpresse






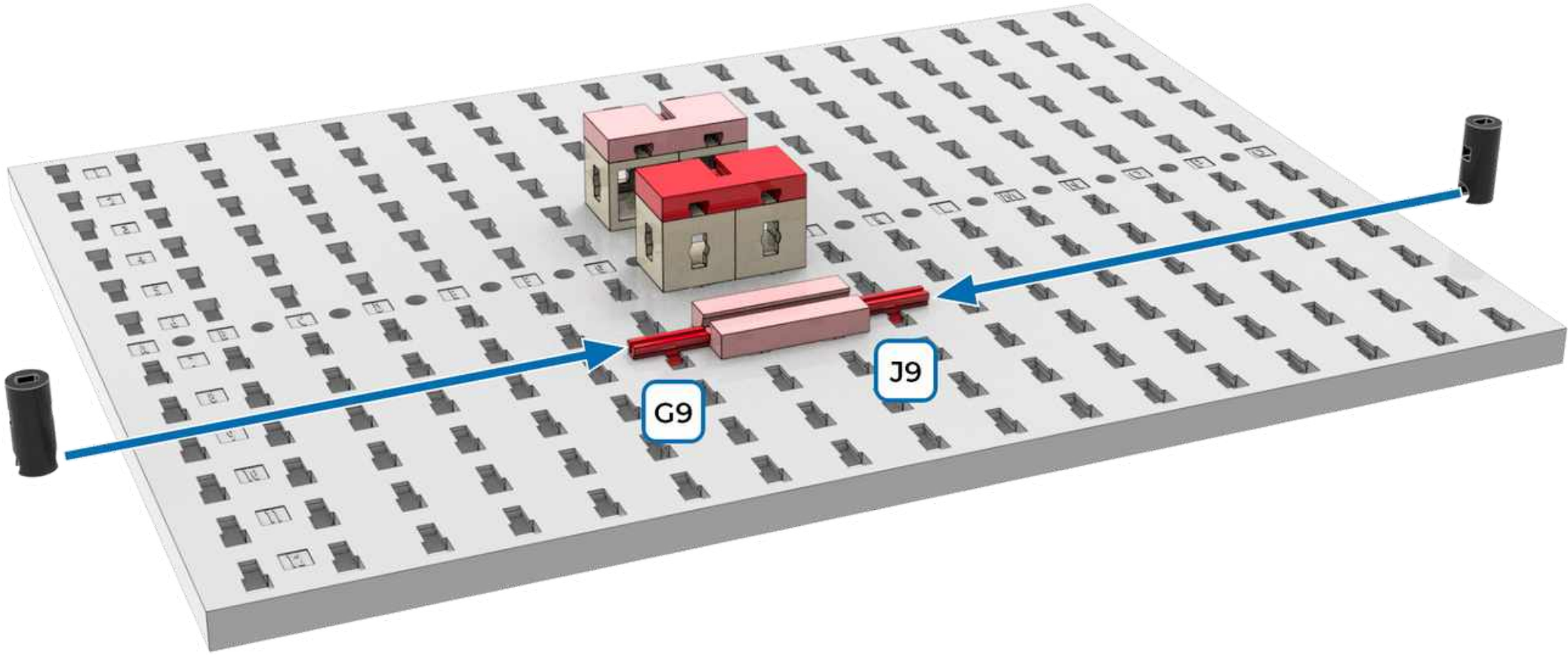


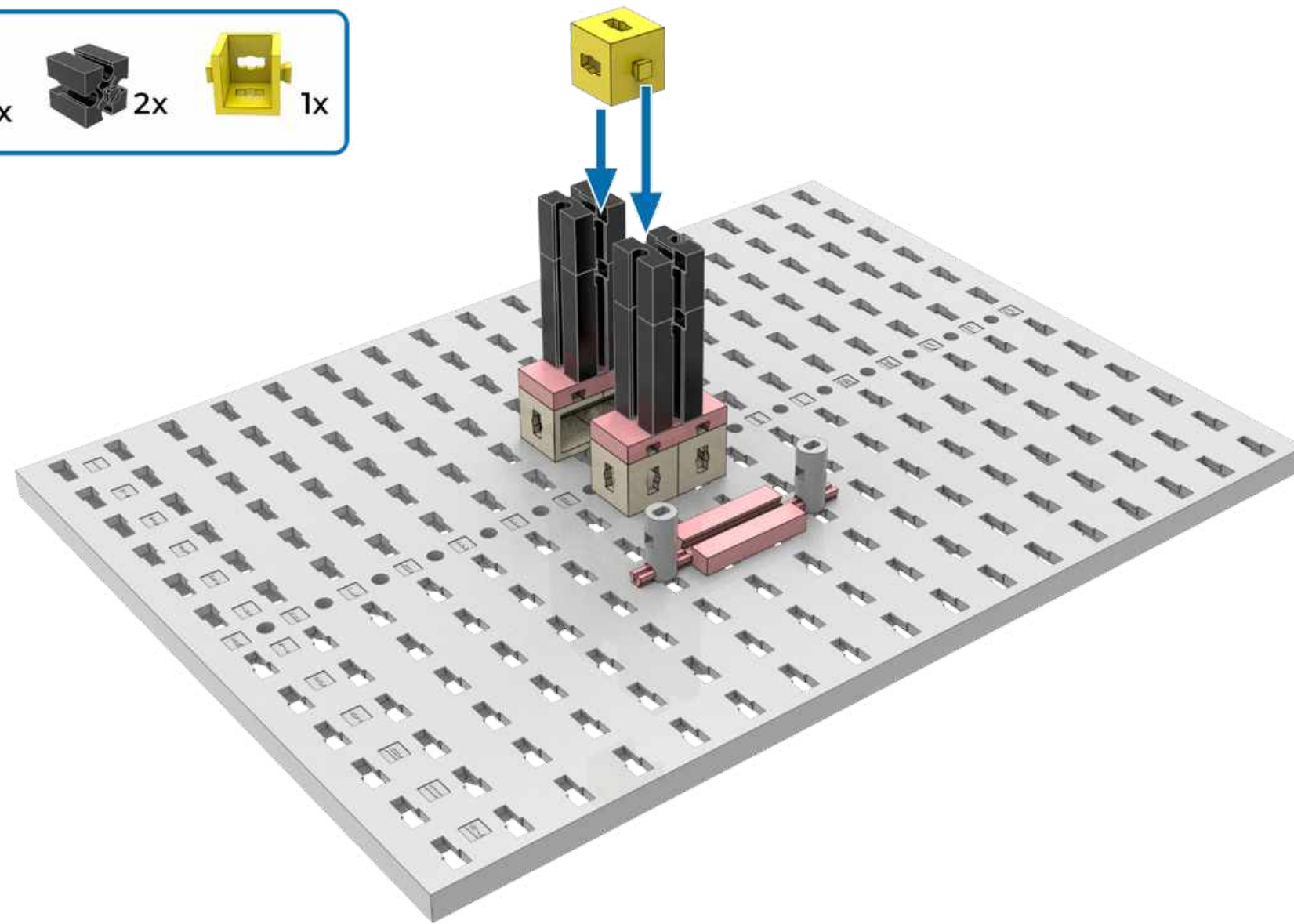
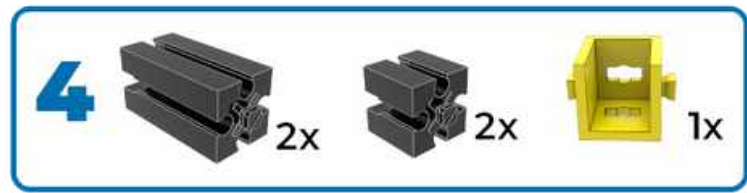


2  1x  2x

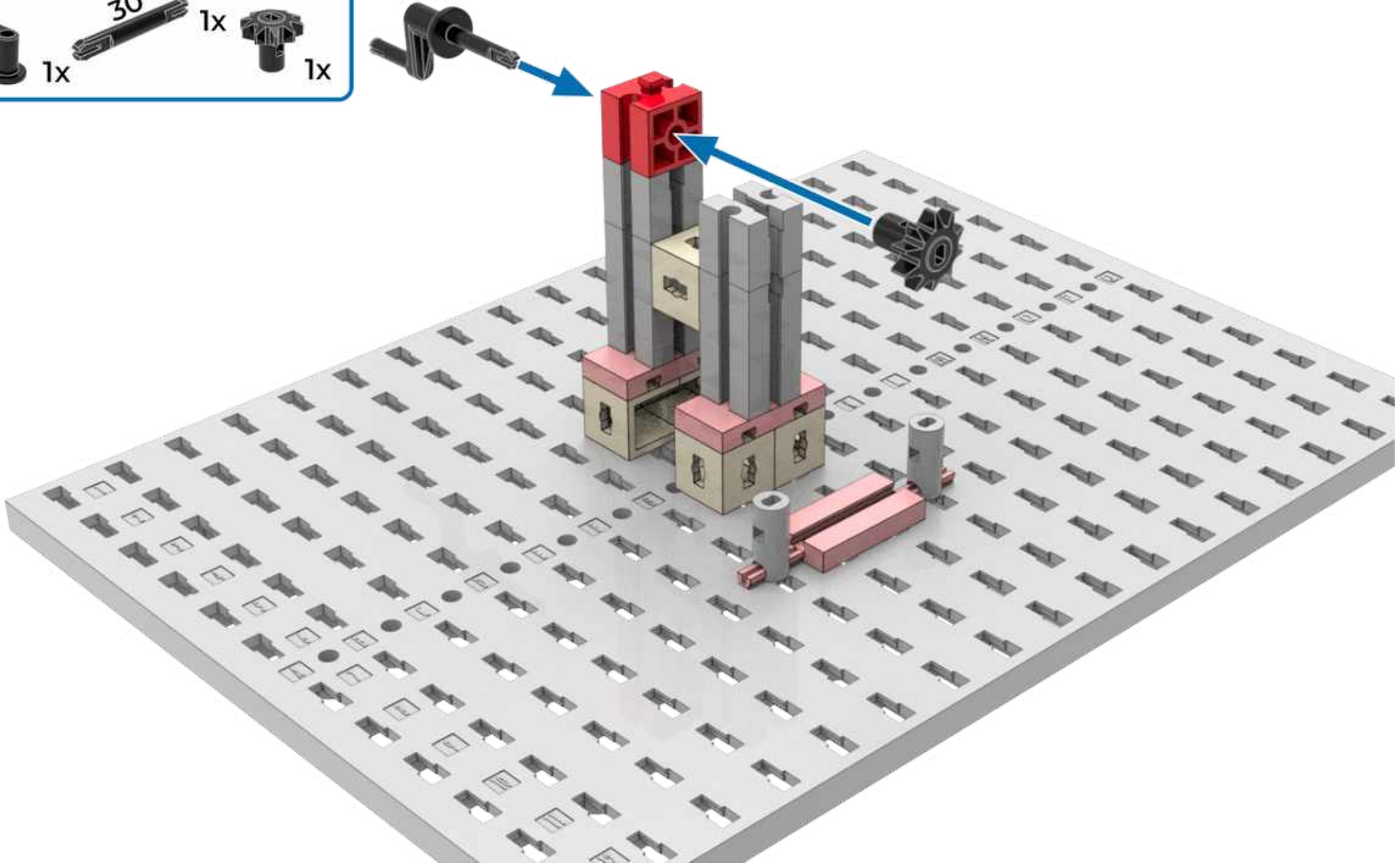





3  1x  2x  2x

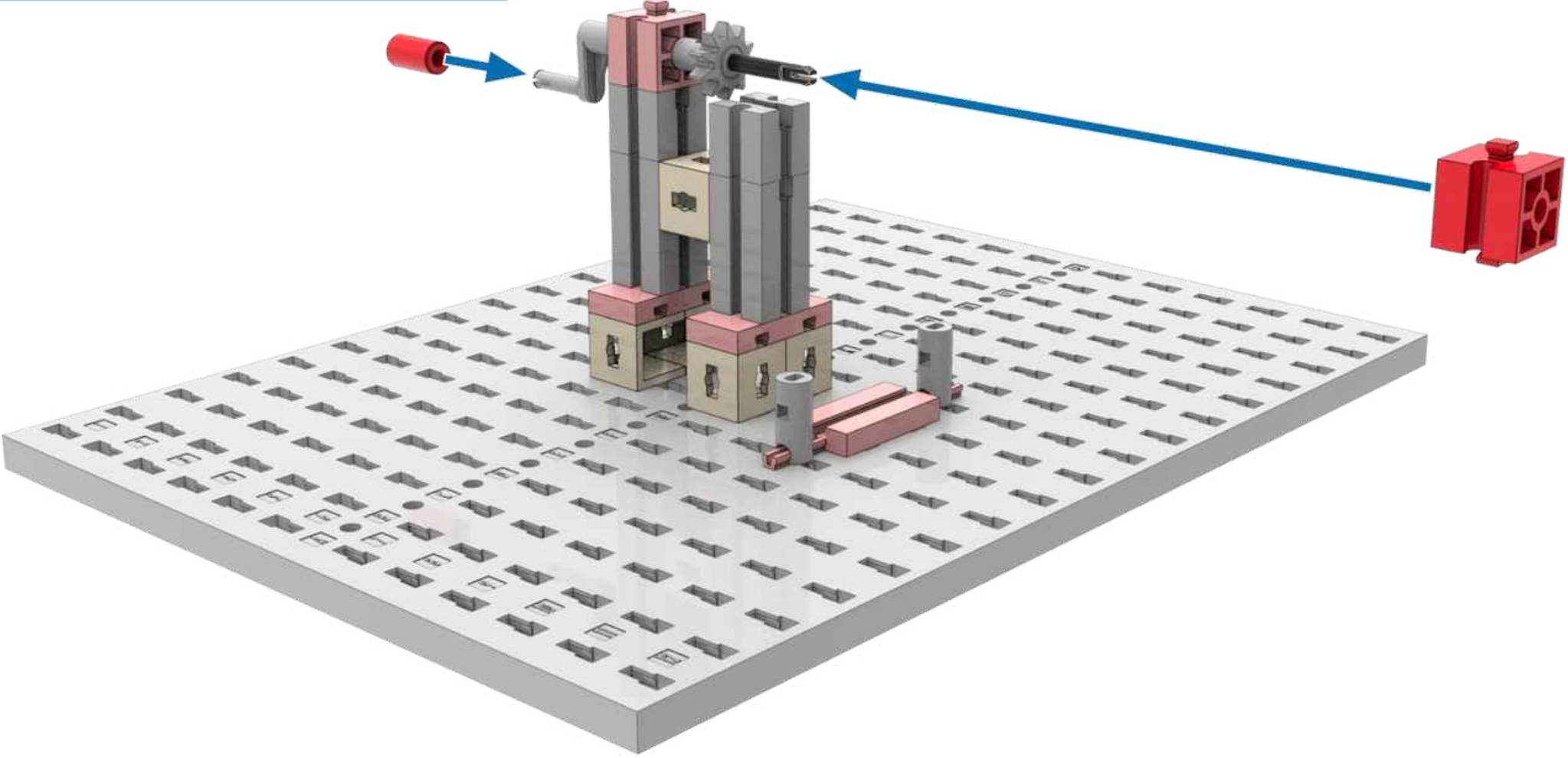




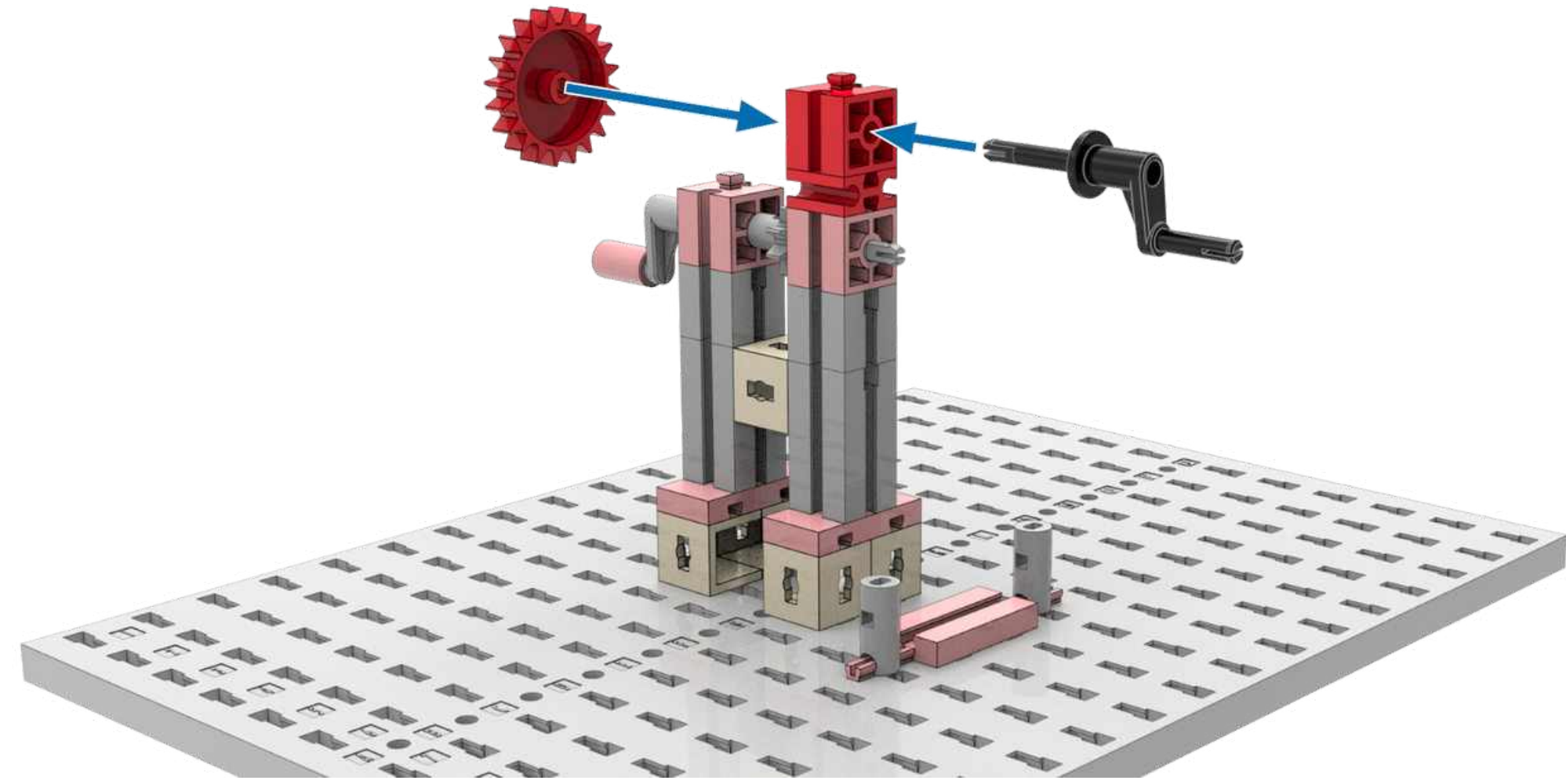
5 1x  1x  1x  1x  1x





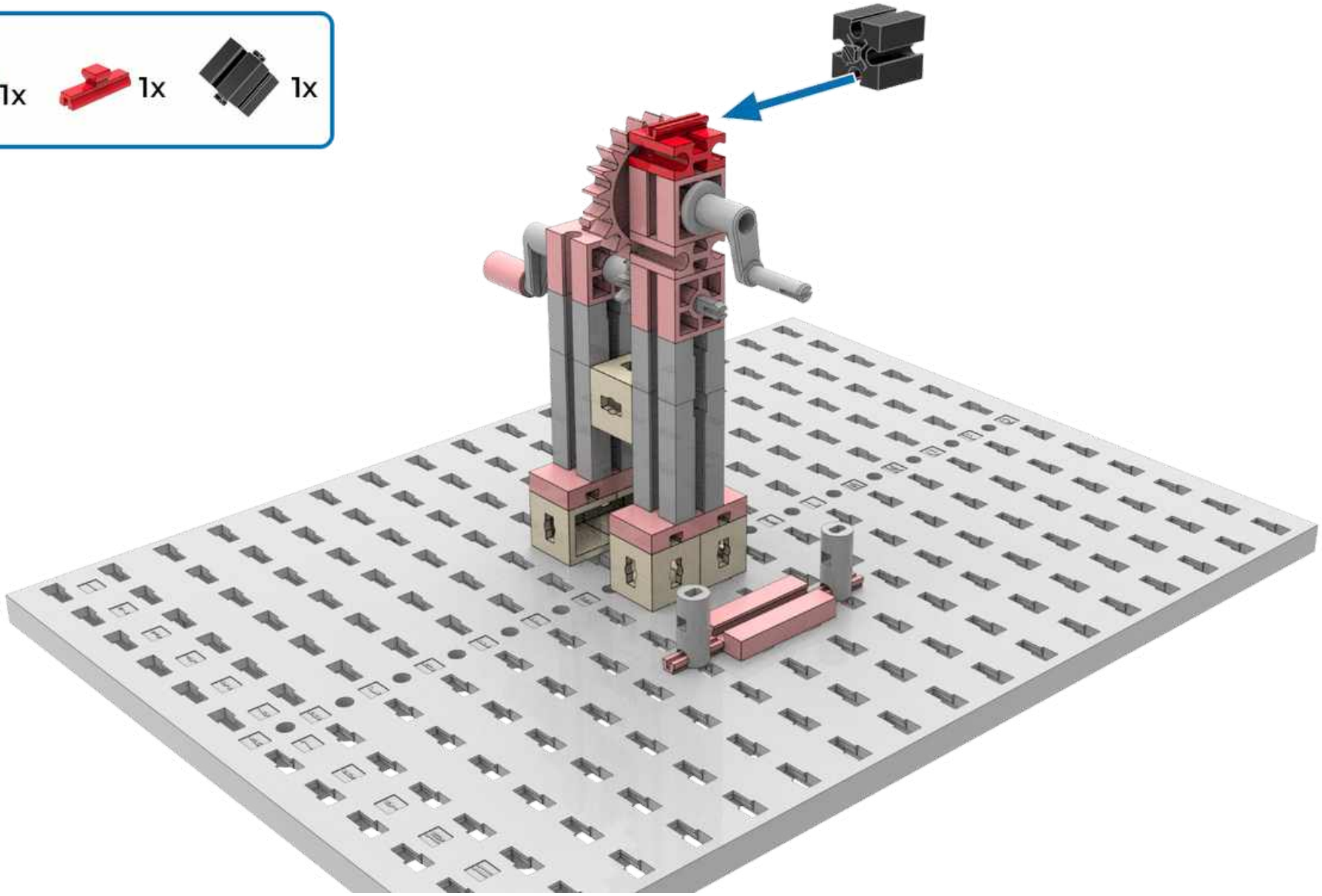
6  30 1x  1x  1x





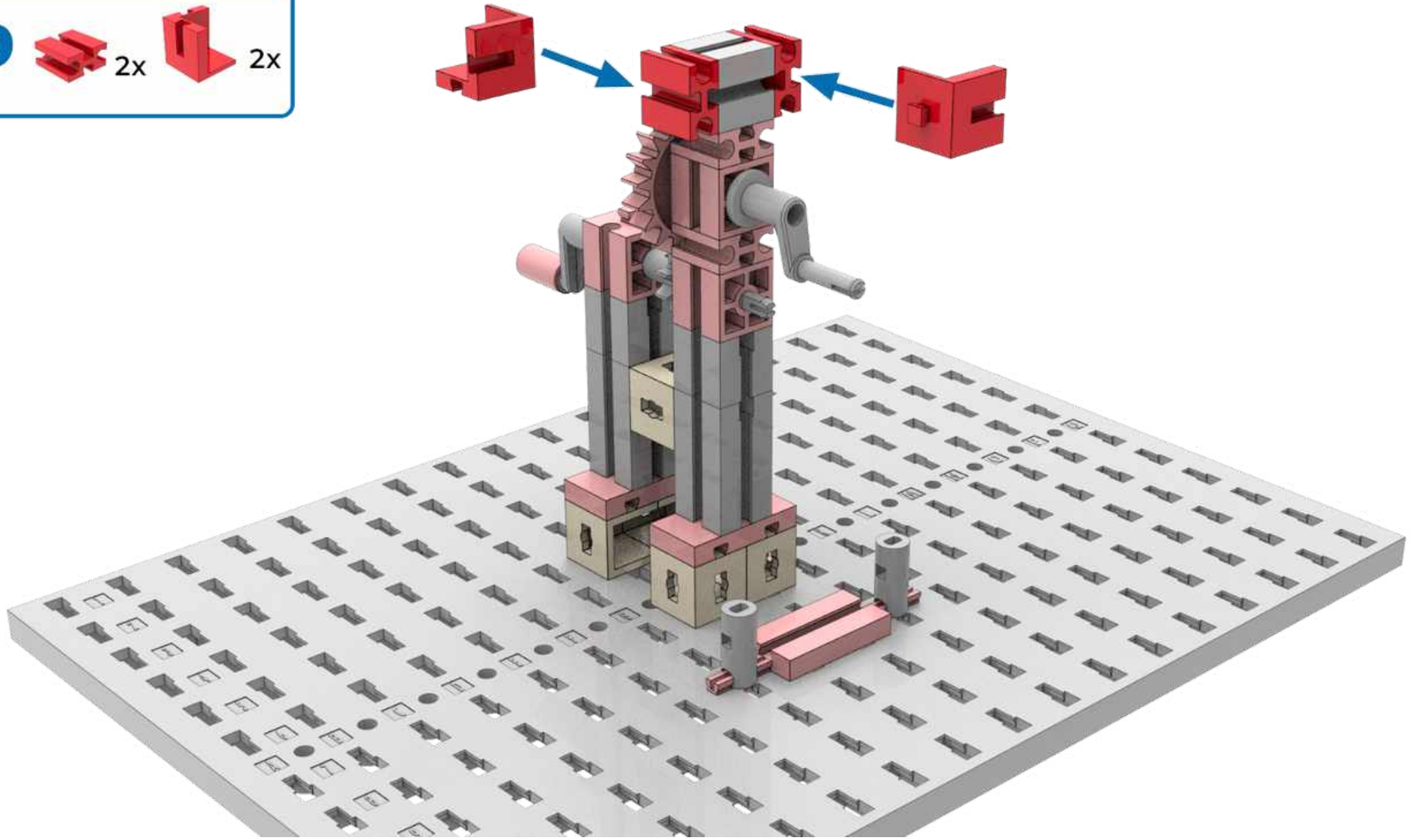
7  1x  1x  1x  30 1x  1x






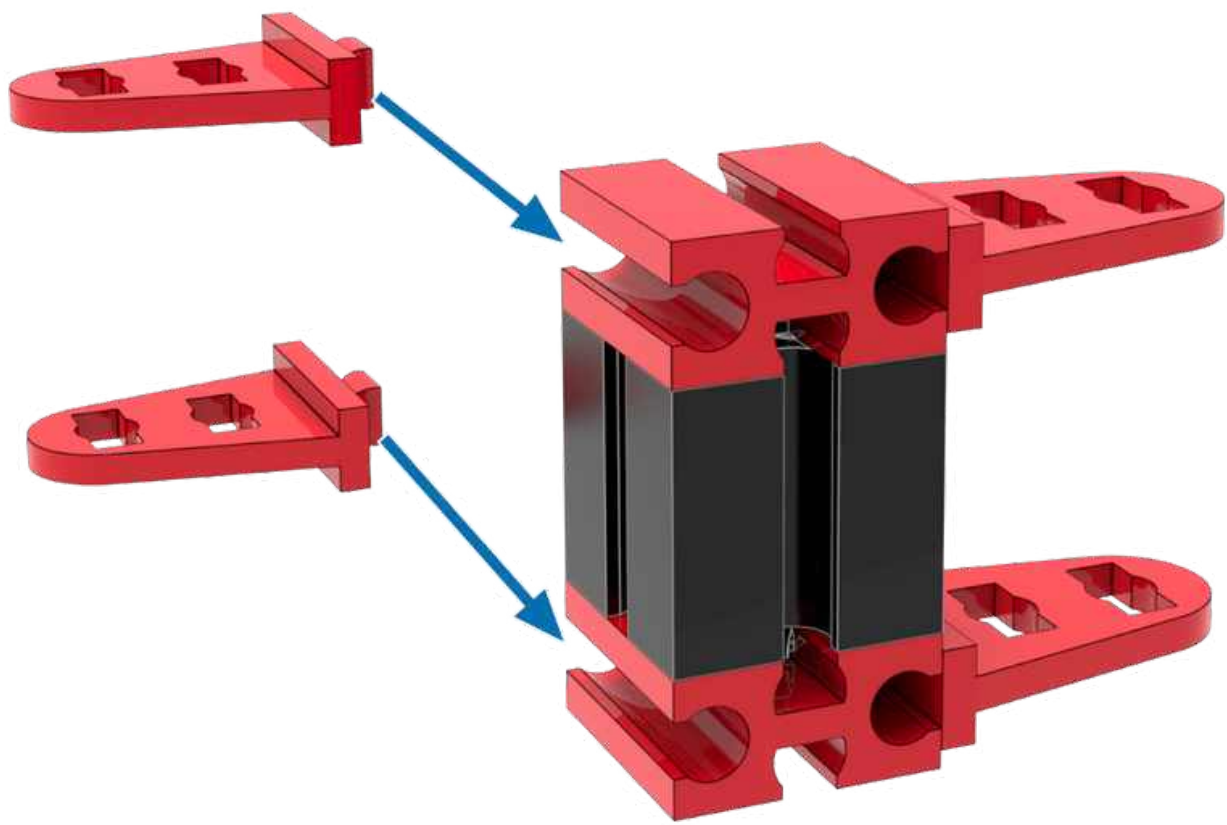
8  1x  1x  1x



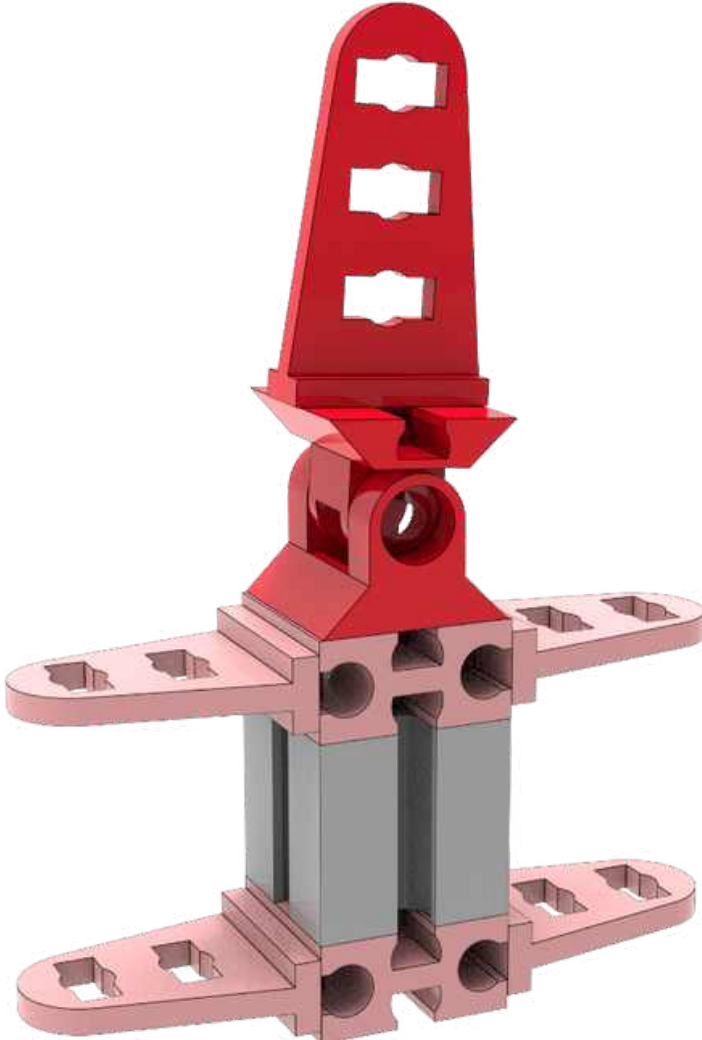
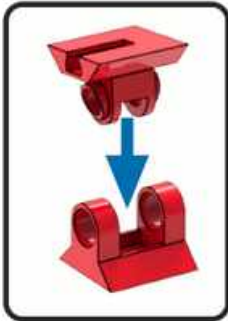
9  2x  2x





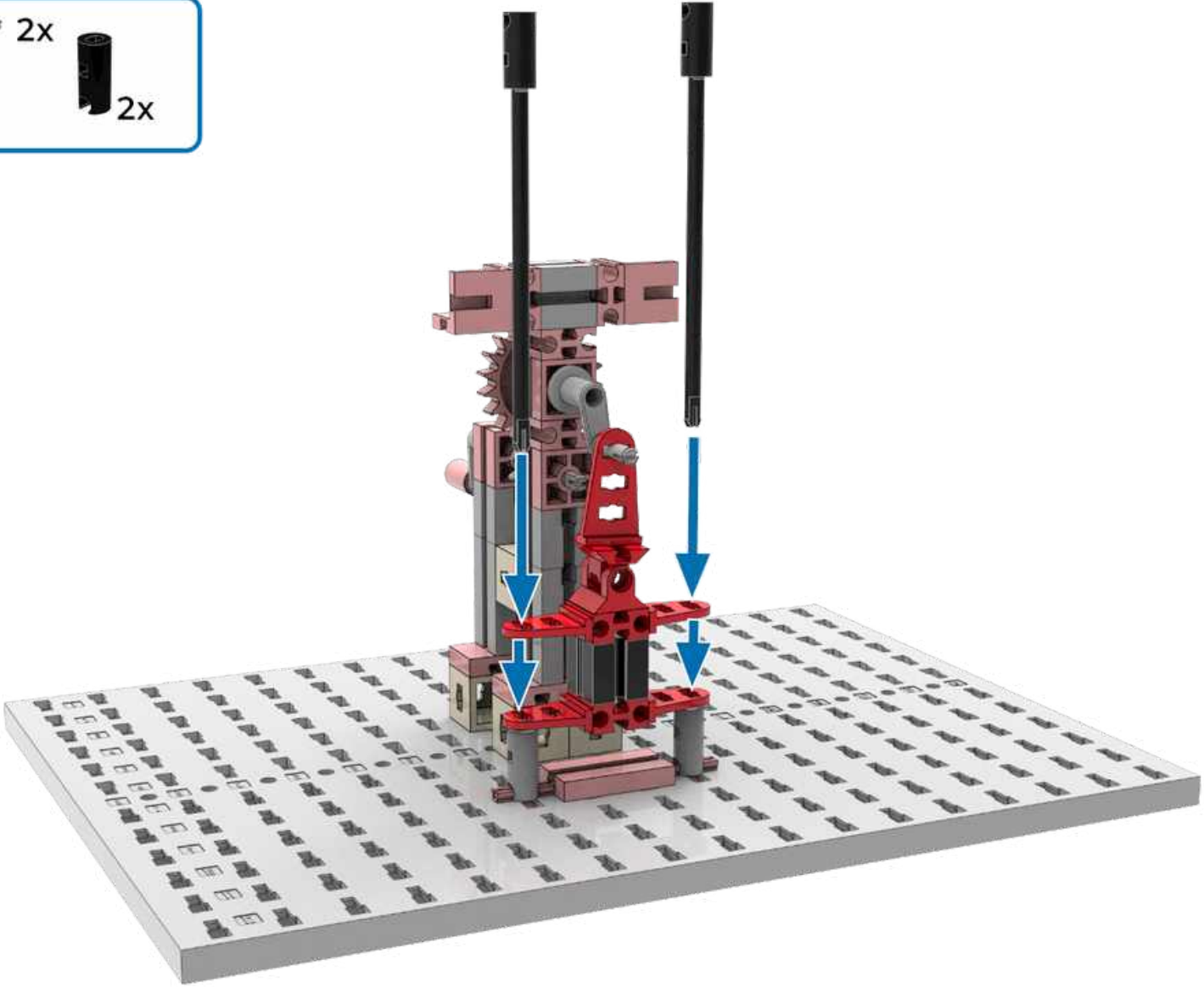
10  1x  2x  4x





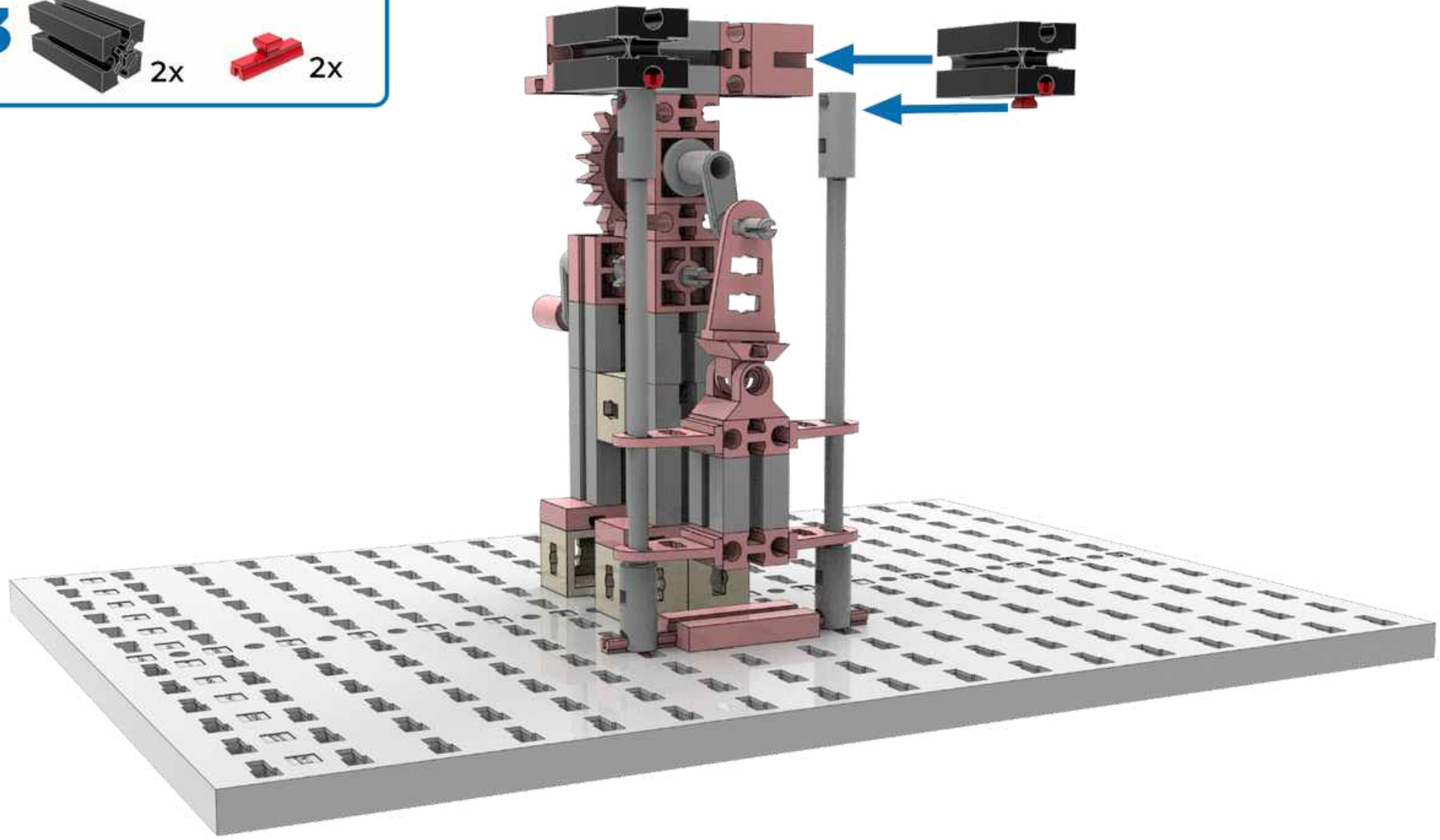
11  1x  2x  2x



12 90 2x  2x 

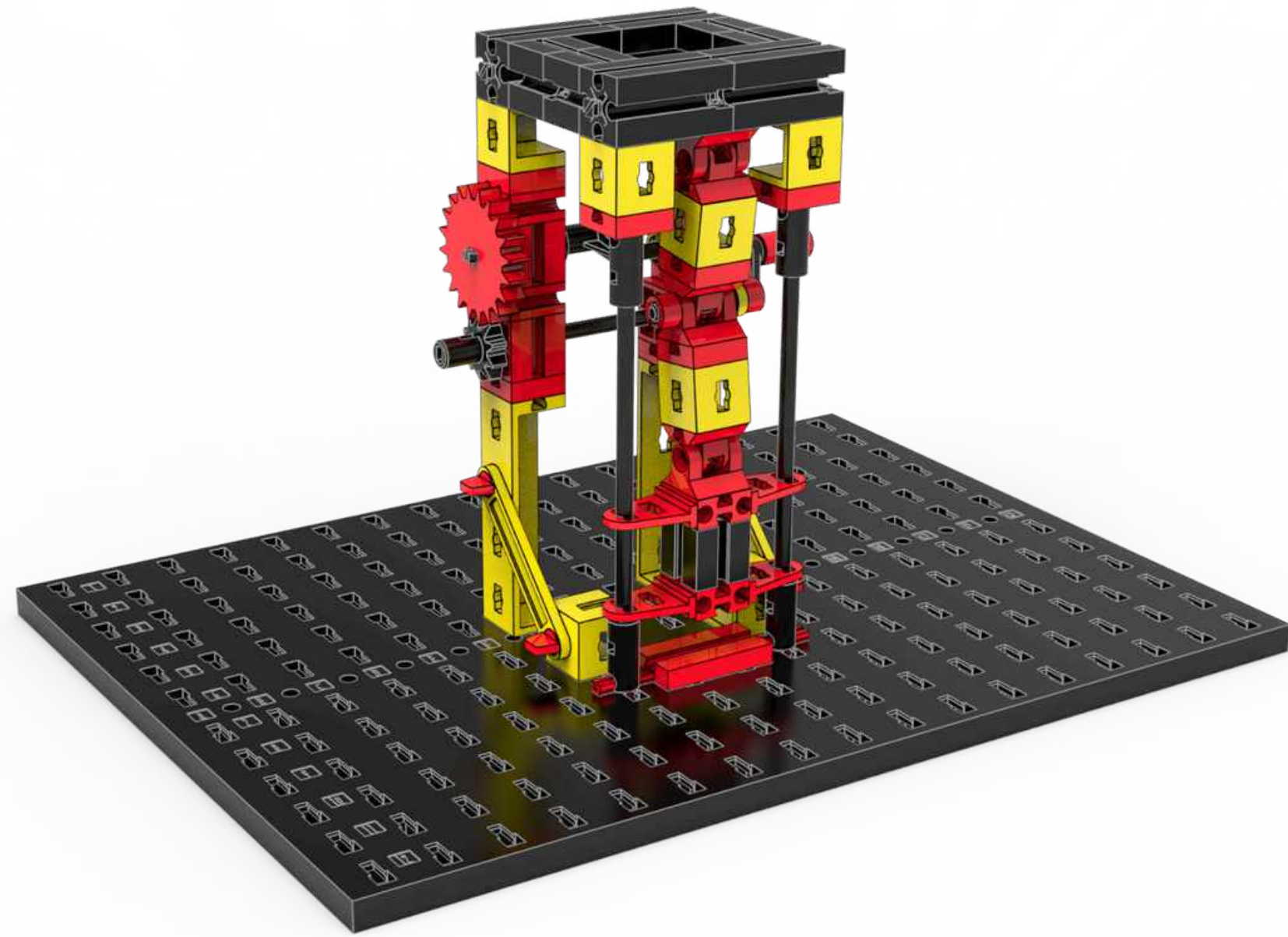


13  2x  2x

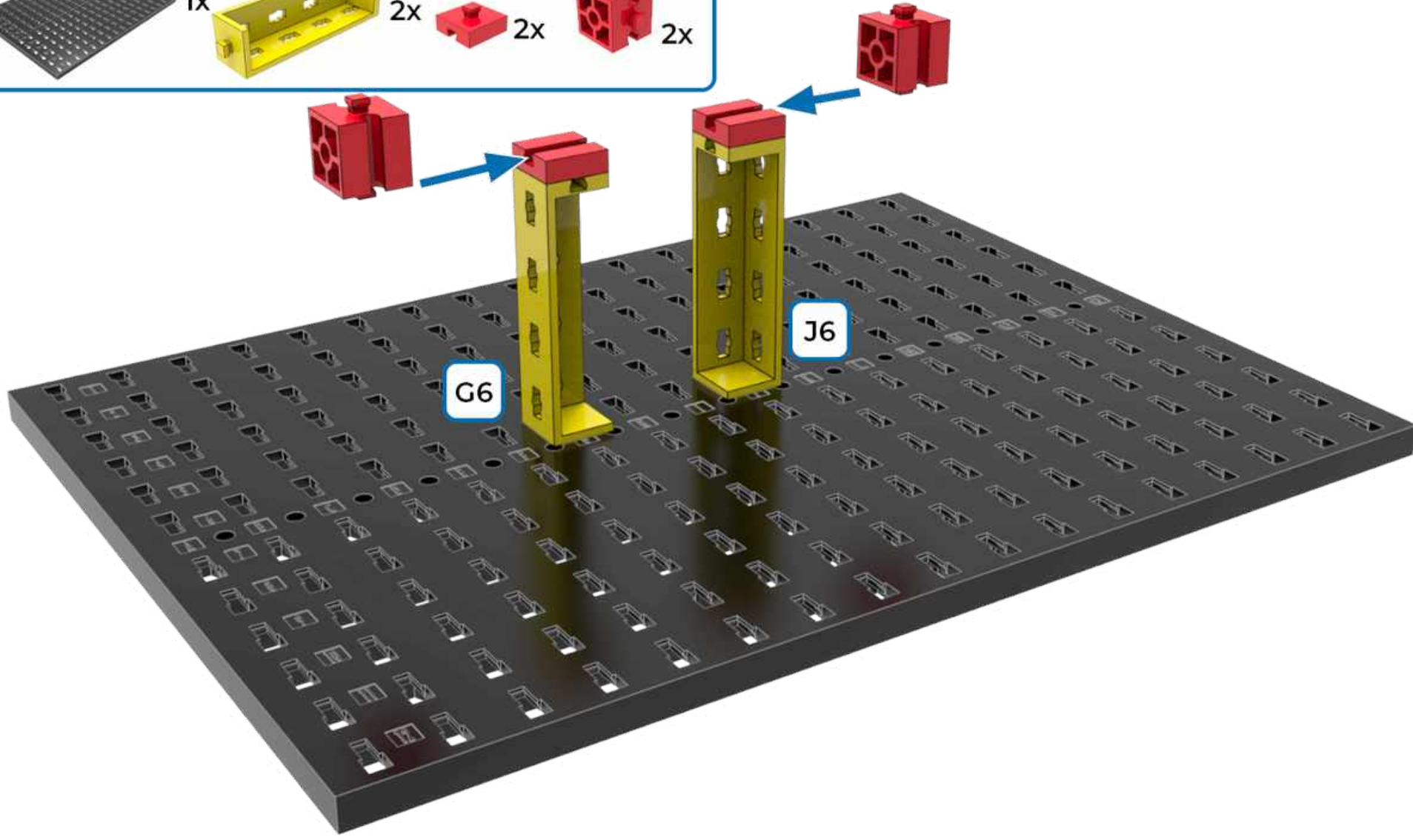





Kniehebelpresse

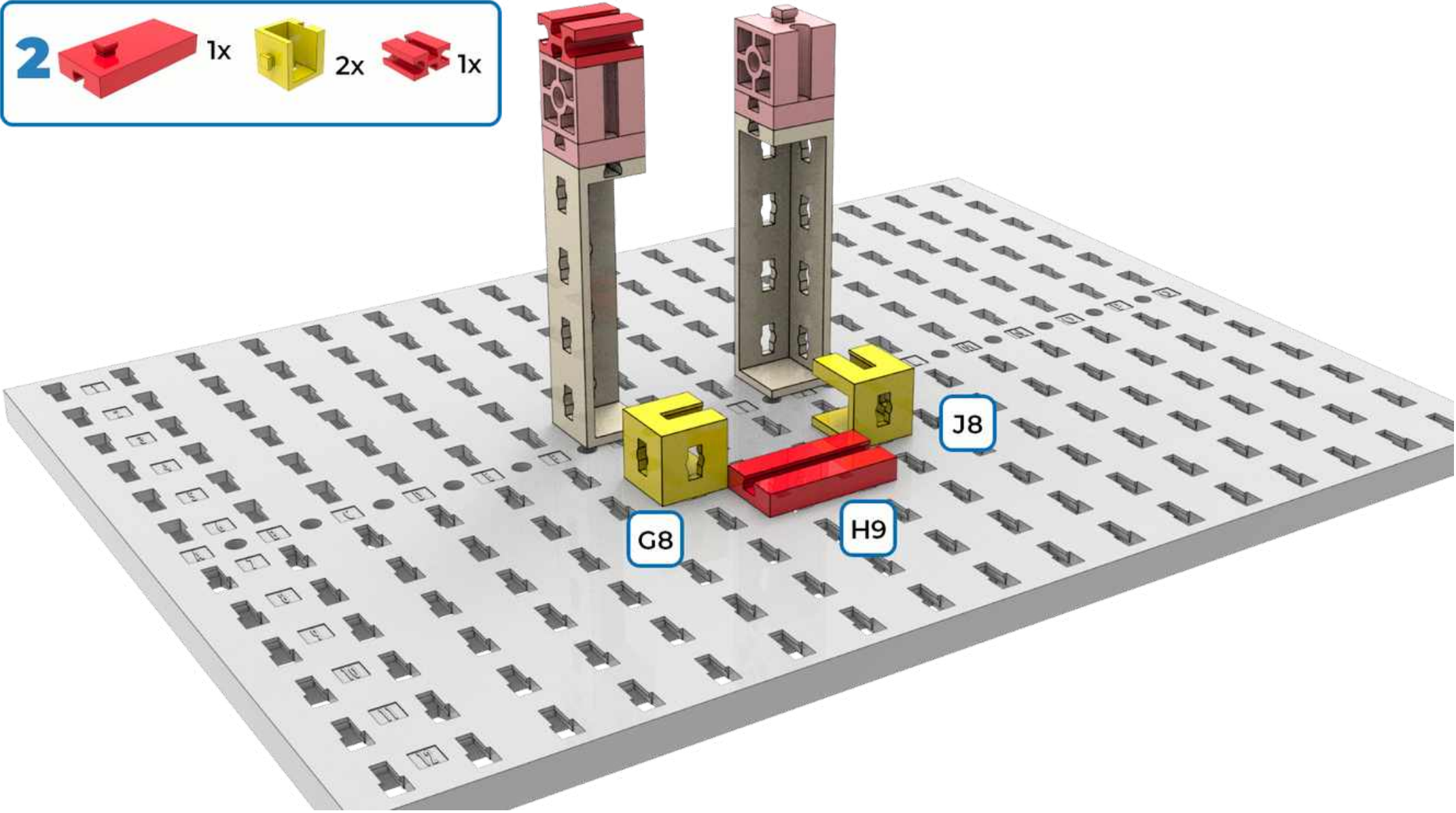




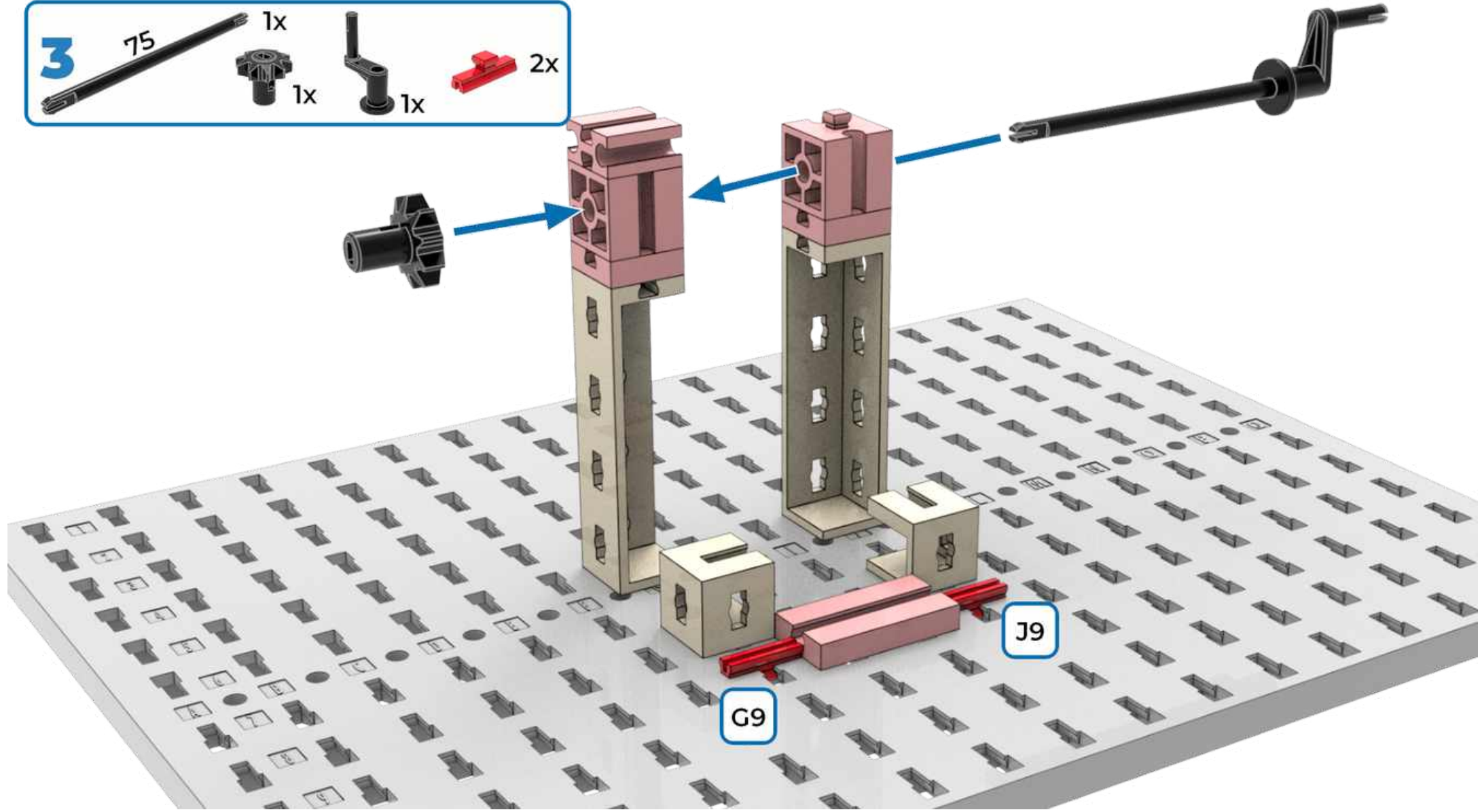
1 1x 2x 2x 2x 2x



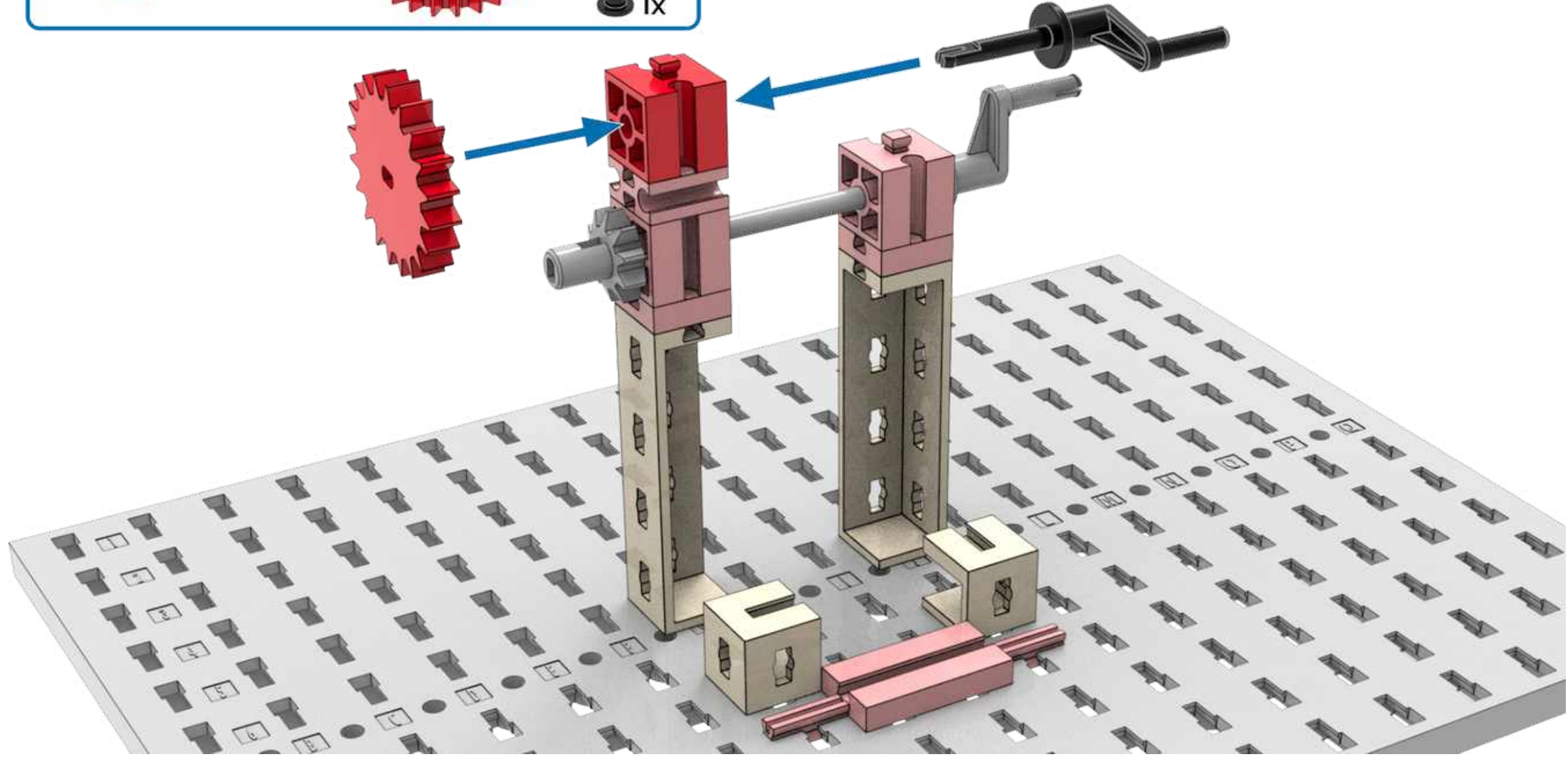
2  1x  2x  1x






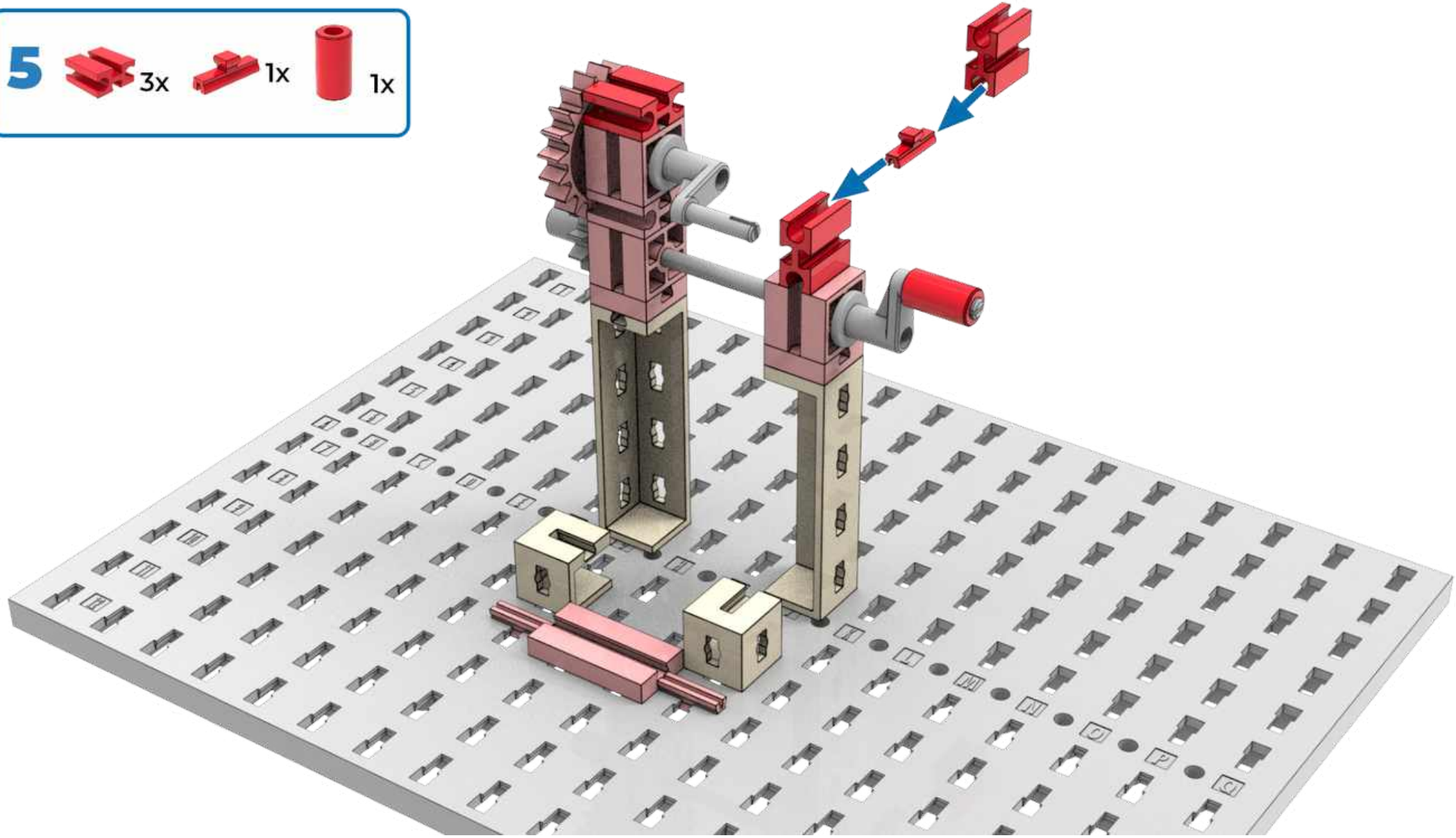
3 75 1x 1x 1x 2x



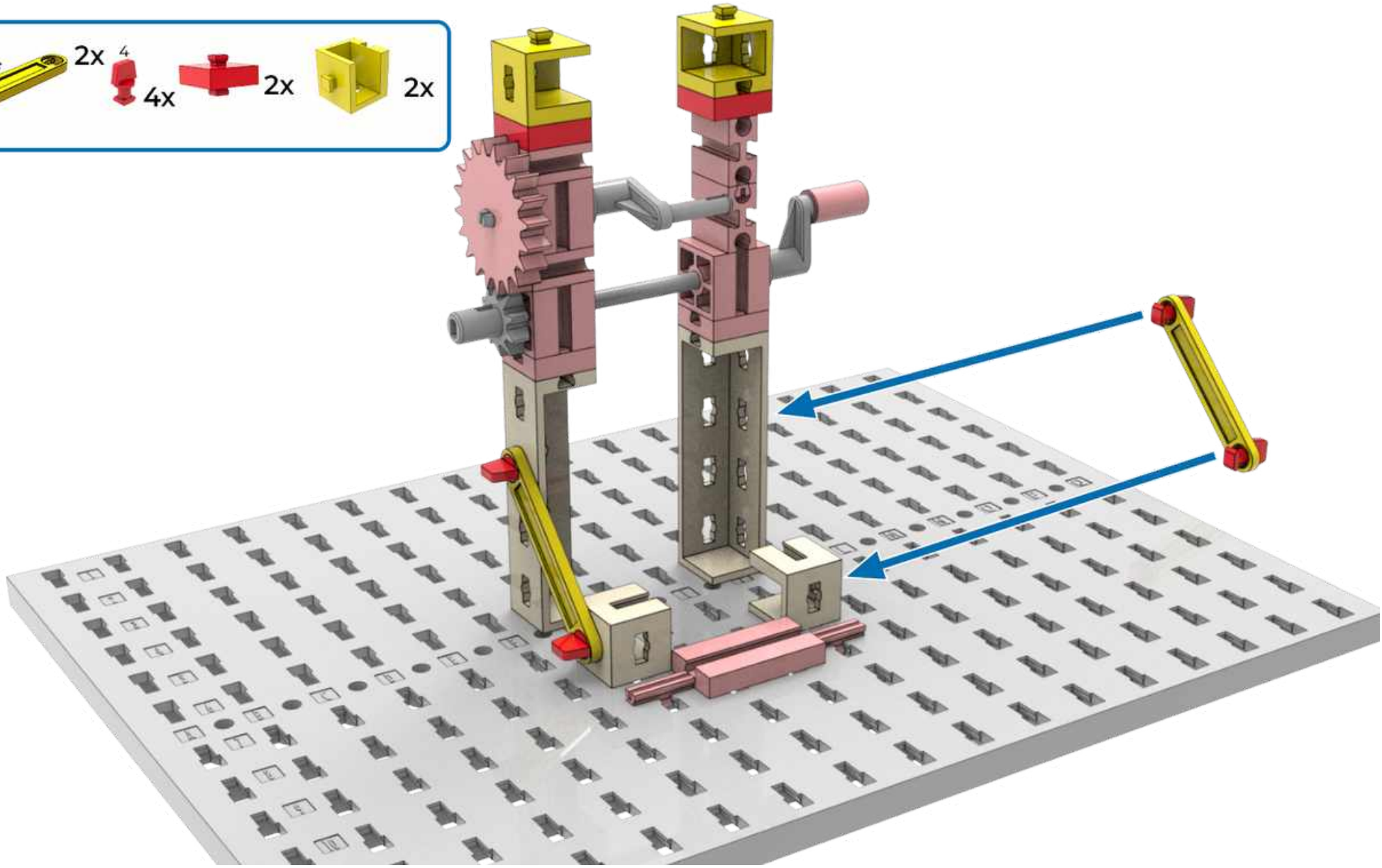
4 1x 30 1x 1x 1x



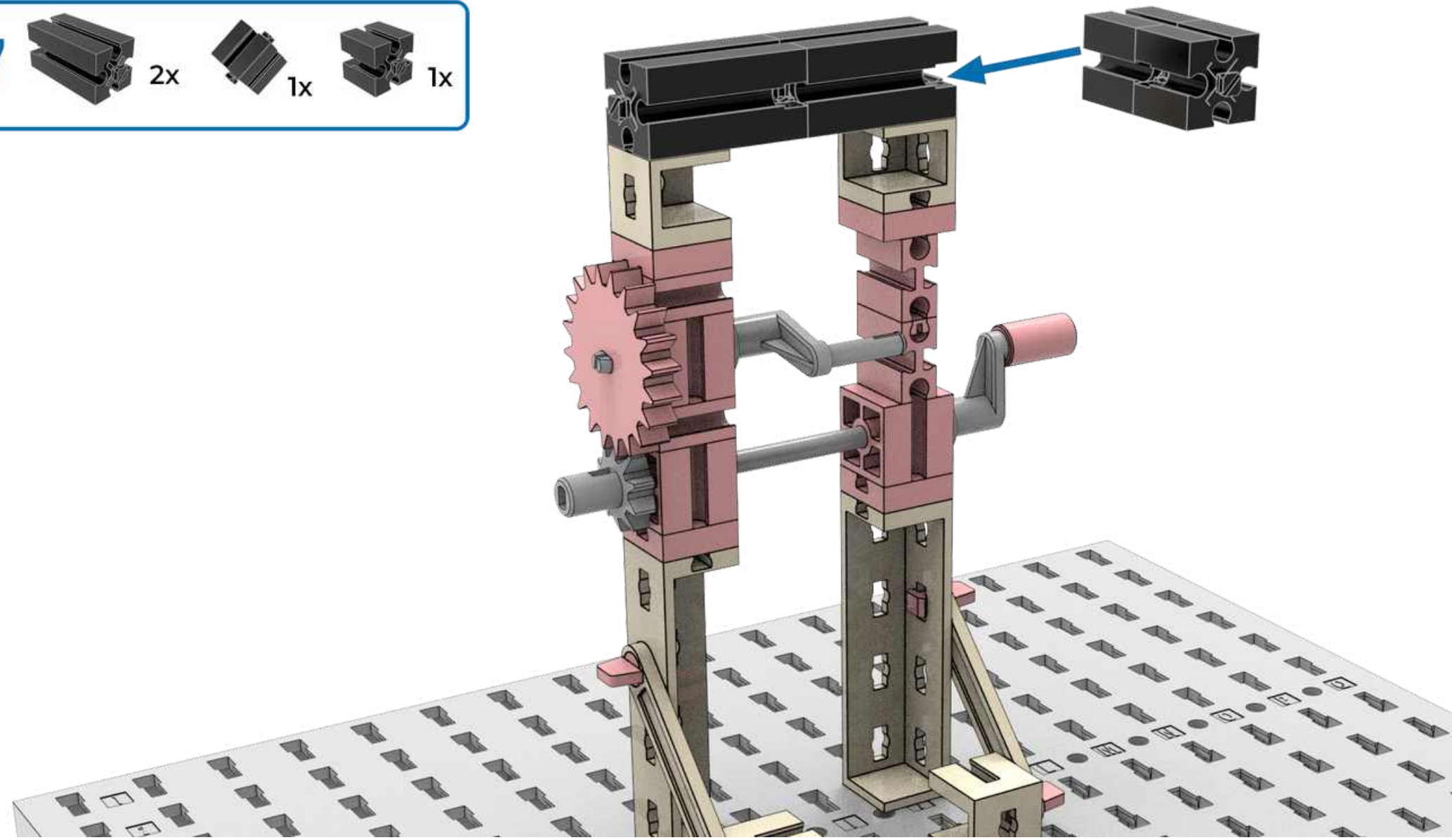
- 5**  3x  1x  1x



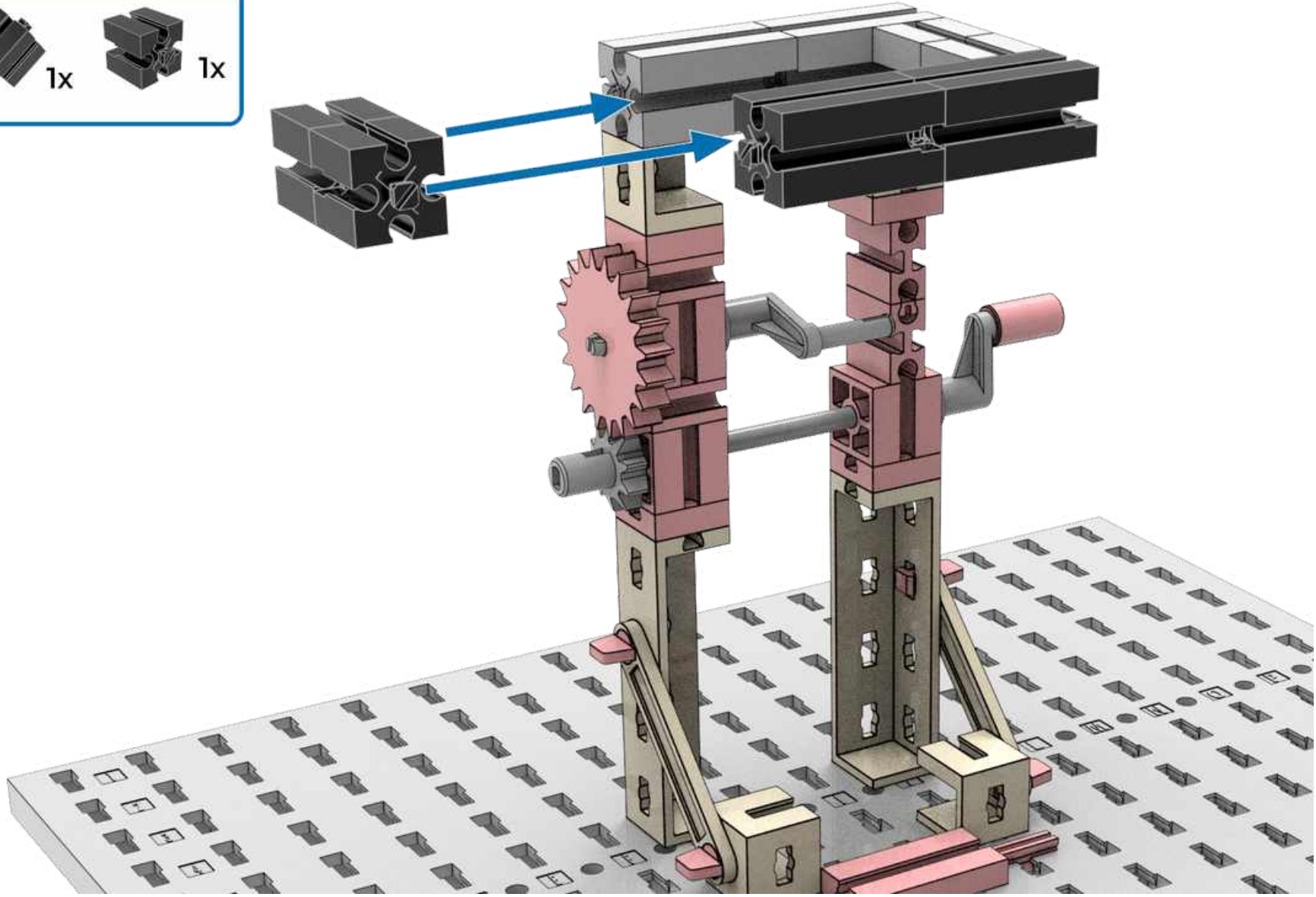
6 42,4 2x 4 4x 2x 2x







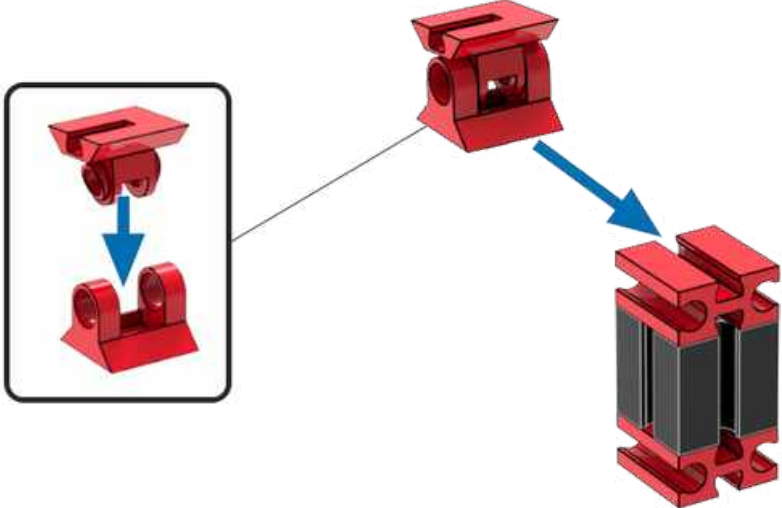
7  2x  1x  1x






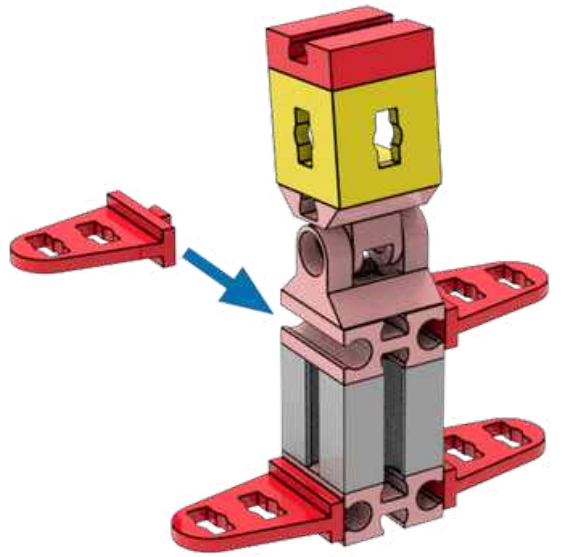
8  2x  1x  1x







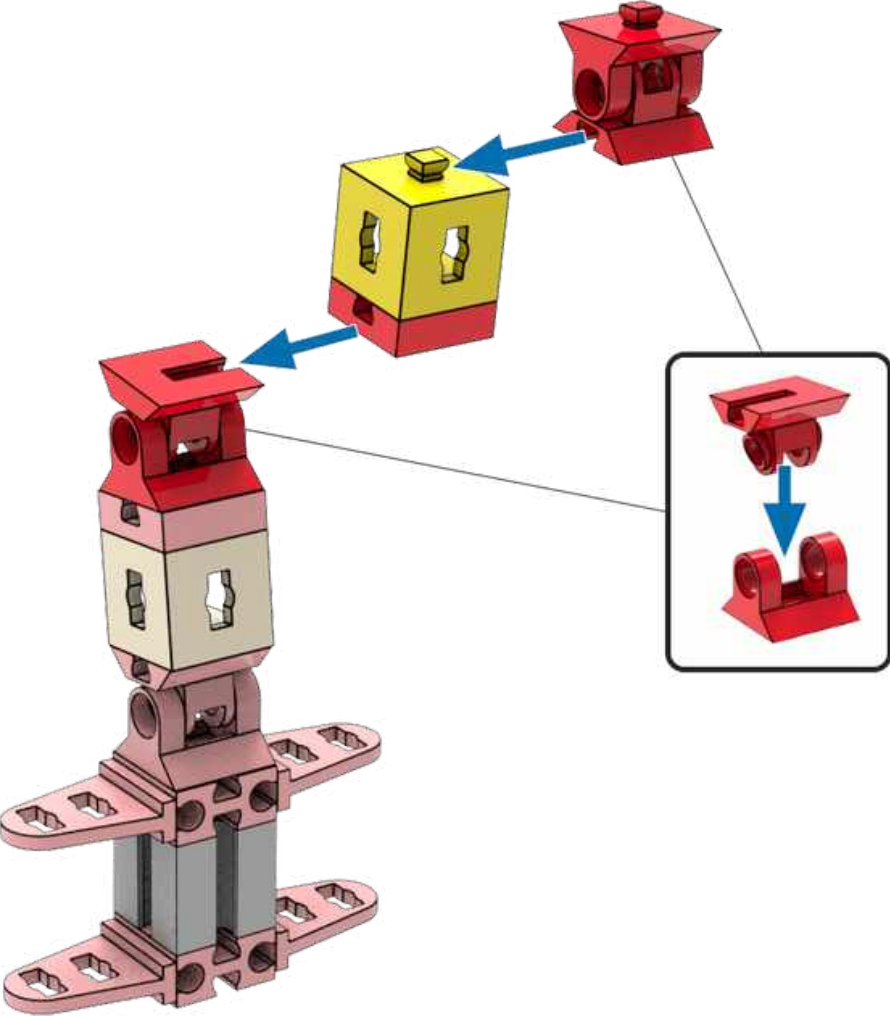
9  1x  2x  1x  1x



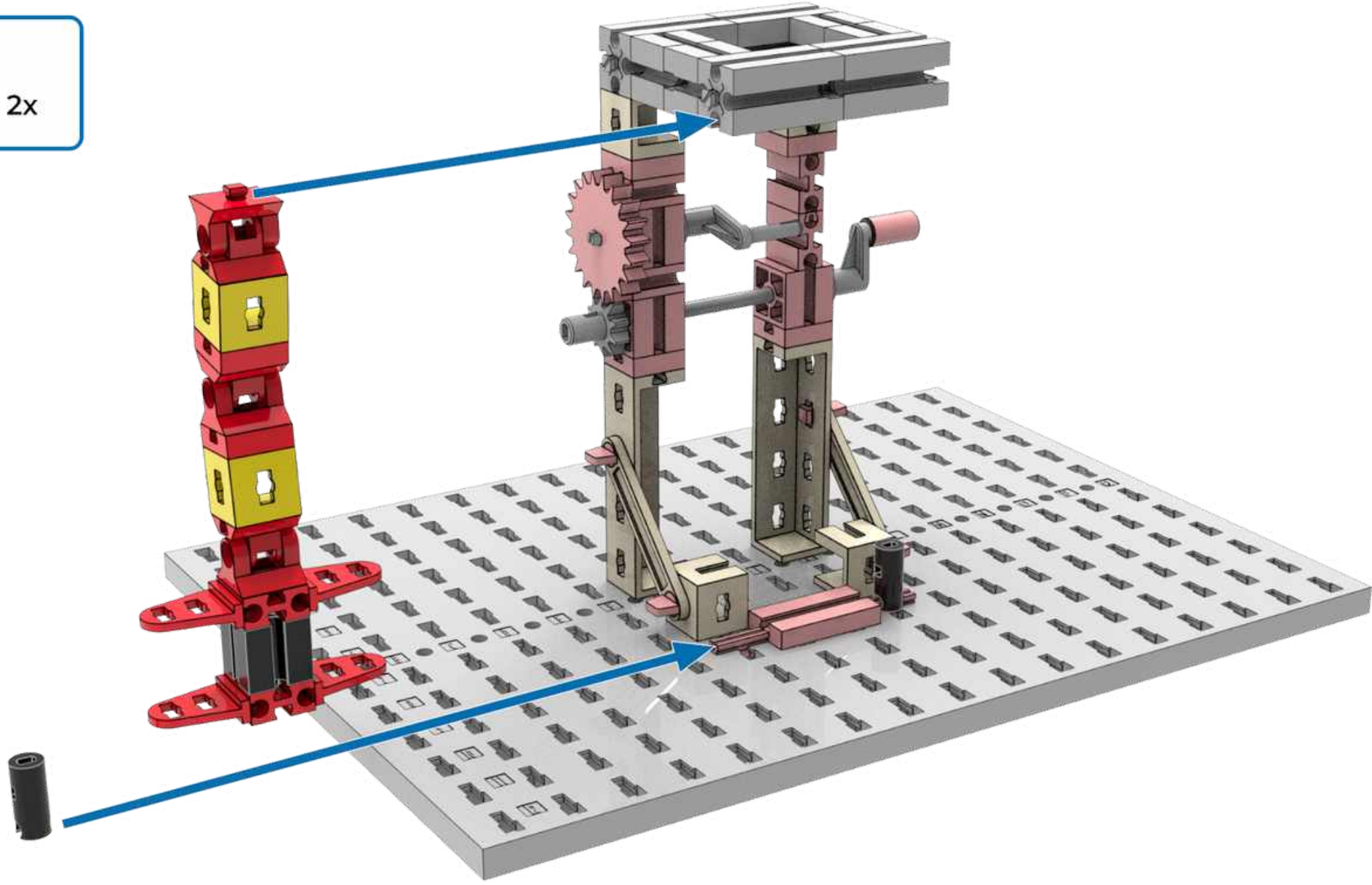
10  1x  1x  4x




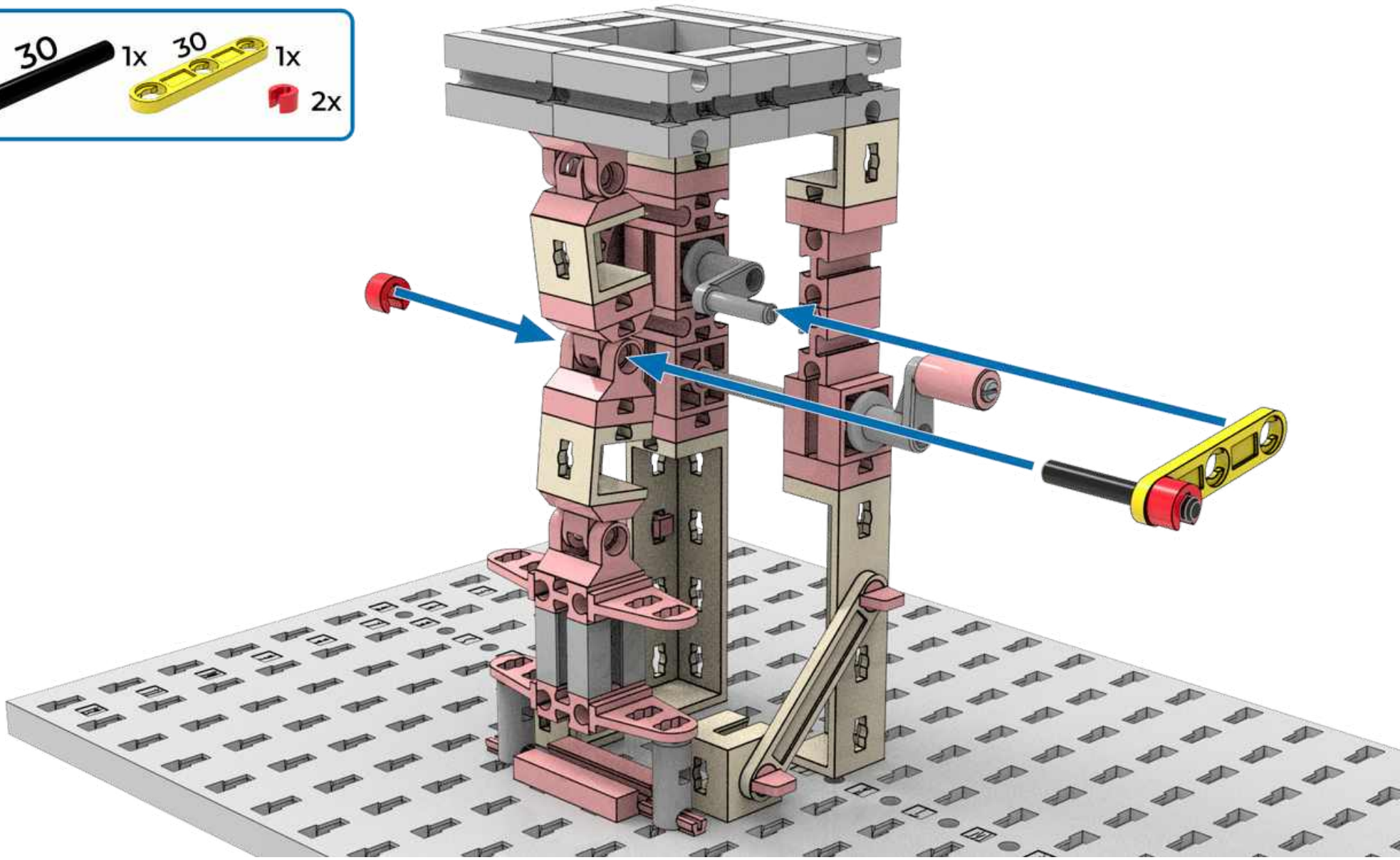
11  1x  1x  2x  2x



12  2x



13 30 1x 30 1x  2x



14 90 2x
2x 2x 2x 2x

