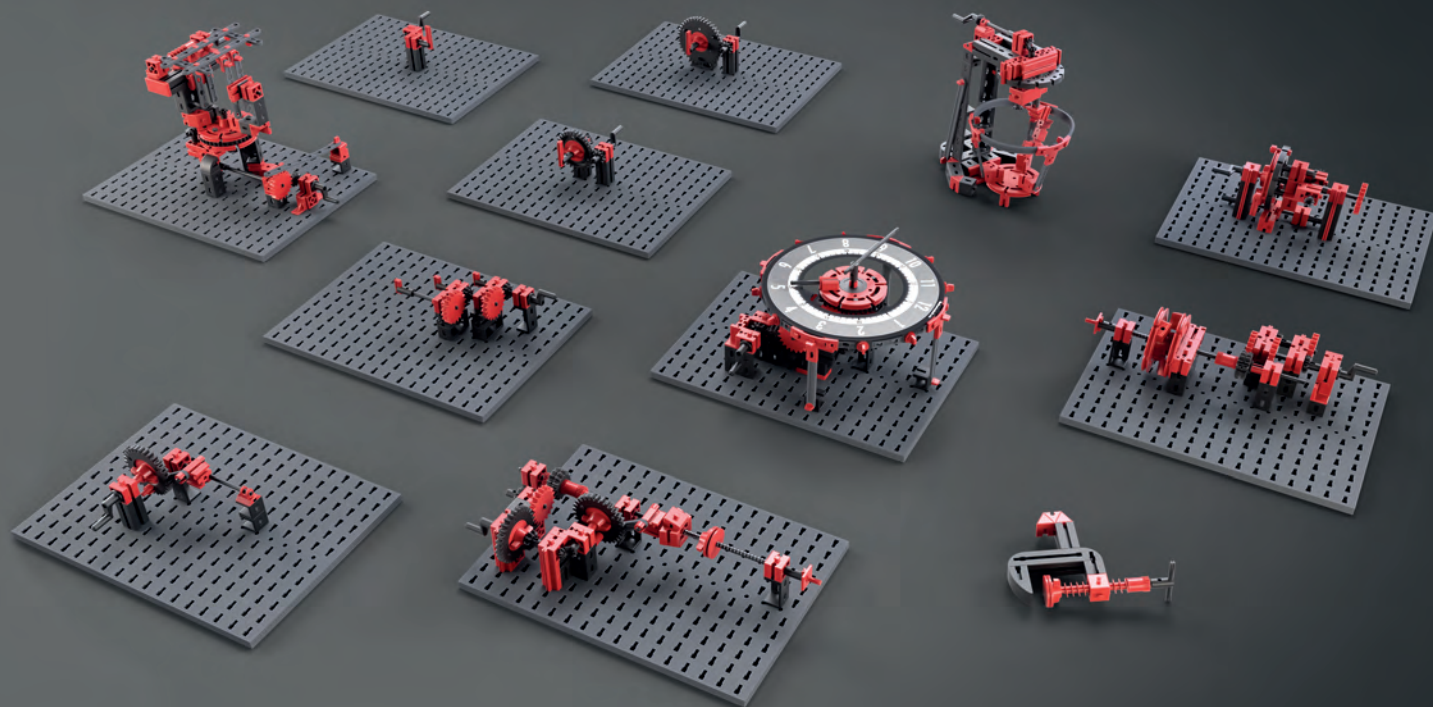




# PROFI Mechanics

**fischertechnik GmbH**  
Klaus-Fischer-Str. 1  
72178 Waldachtal  
Germany

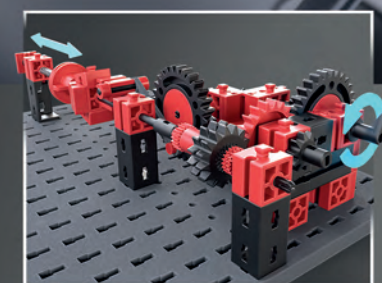
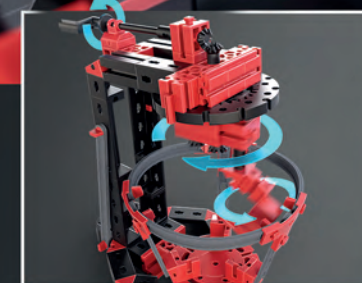
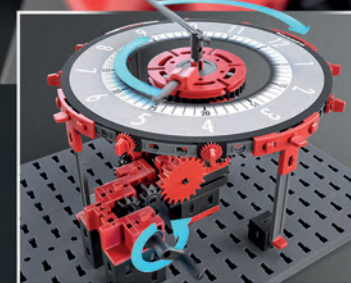
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Fax: +49 74 43/12-45 91

info@fischertechnik.de  
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Instructions de montage  
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Instrucciones de construcción

Manual de montagem  
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Инструкция по сборке  
安装说明书

# PROFI Mechanics

MODELS

**12**

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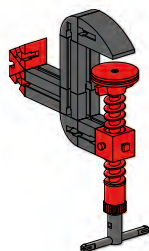
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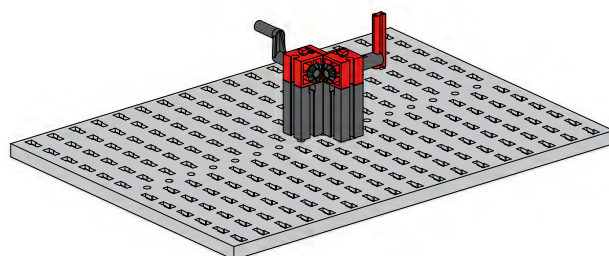
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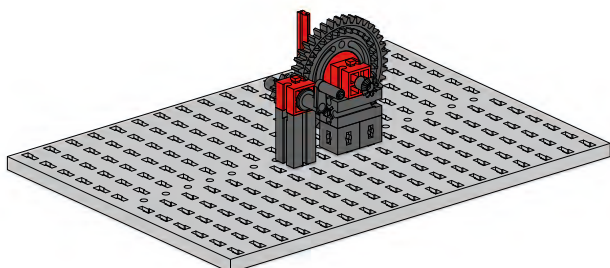
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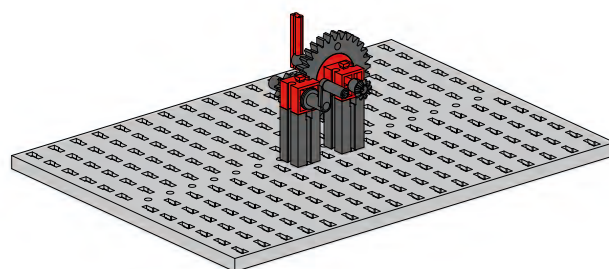
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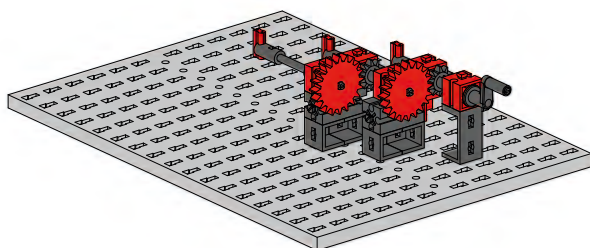
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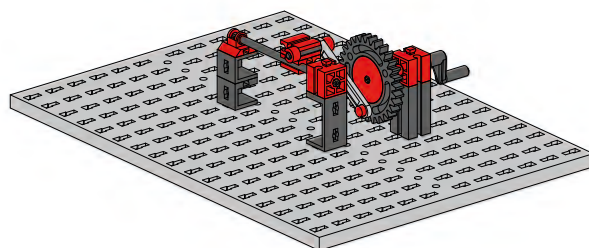
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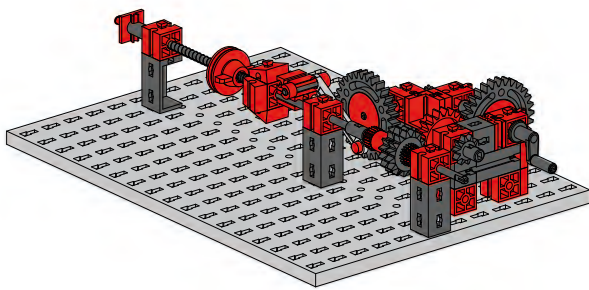
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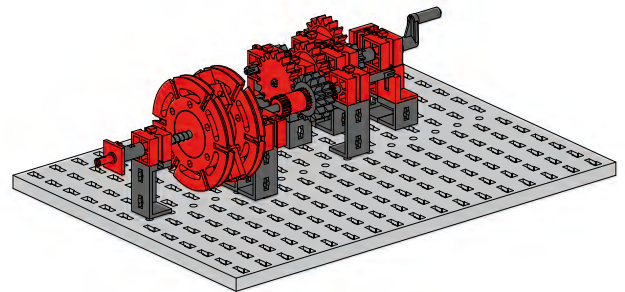
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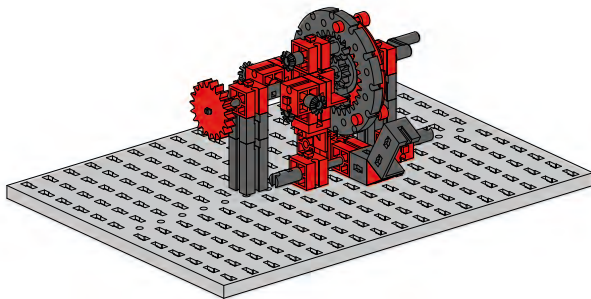
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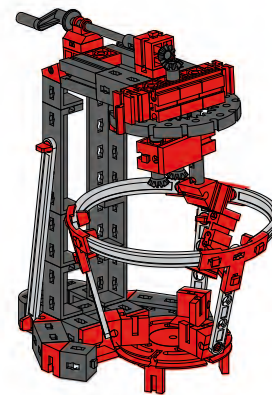
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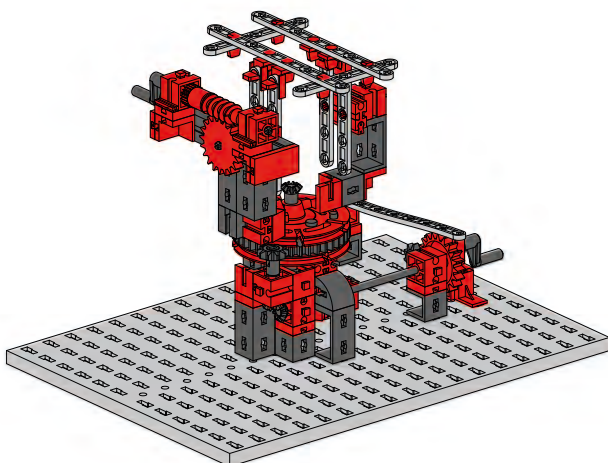
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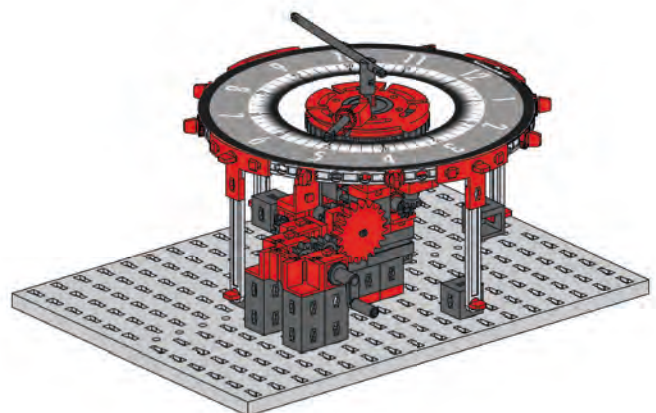
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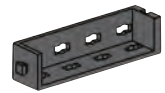
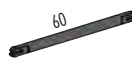
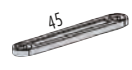
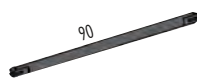
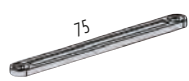
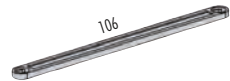


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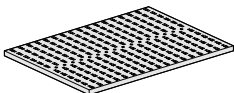
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**Перечень деталей**  
**零件概览**

|                                                                                     |               |                                                                                     |                |                                                                                      |                |                                                                                       |                |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------|----------------|
|    | 31 010<br>3 x |    | 31 918<br>2 x  |     | 35 113<br>1 x  |    | 37 527<br>1 x  |
|    | 31 011<br>2 x |    | 31 981<br>4 x  |    | 35 694<br>1 x  |    | 37 679<br>4 x  |
|    | 31 019<br>2 x |    | 31 982<br>15 x |     | 35 695<br>2 x  |    | 37 858<br>1 x  |
|    | 31 022<br>1 x |    | 32 064<br>11 x |     | 35 799<br>1 x  |    | 37 925<br>1 x  |
|    | 31 058<br>3 x |    | 32 316<br>1 x  |     | 35 945<br>3 x  |    | 37 926<br>1 x  |
|    | 31 060<br>3 x |    | 32 330<br>2 x  |     | 36 227<br>3 x  |    | 38 240<br>8 x  |
|   | 31 061<br>2 x |   | 32 879<br>2 x  |   | 36 264<br>2 x  |   | 38 246<br>2 x  |
|  | 31 124<br>1 x |  | 32 881<br>2 x  |   | 36 323<br>24 x |  | 38 413<br>1 x  |
|  | 31 330<br>2 x |  | 35 031<br>3 x  |   | 36 334<br>10 x |  | 38 423<br>3 x  |
|  | 31 426<br>1 x |  | 35 061<br>2 x  |   | 36 819<br>2 x  |  | 68 535<br>1 x  |
|  | 31 597<br>4 x |  | 35 062<br>4 x  |   | 36 920<br>8 x  |  | 130 593<br>2 x |
|  | 31 670<br>4 x |  | 35 063<br>5 x  |  | 36 921<br>2 x  |  | 137 677<br>3 x |
|  | 31 672<br>4 x |  | 35 064<br>2 x  |   | 36 922<br>7 x  |  | 153 670<br>4 x |
|  | 31 674<br>1 x |  | 35 065<br>1 x  |   | 36 950<br>5 x  |  | 160 542<br>1 x |
|  | 31 690<br>3 x |  | 35 066<br>2 x  |   | 36 973<br>1 x  |  | 160 543<br>4 x |
|  | 31 848<br>4 x |  | 35 073<br>1 x  |   | 37 237<br>9 x  |  | 160 548<br>2 x |
|  | 31 915<br>1 x |  | 35 088<br>2 x  |   | 37 468<br>9 x  |  | 172 542<br>2 x |

**Einzelteilübersicht**  
**Spare parts list**  
**Liste des pièces détachées**

|                                                                                   |                |
|-----------------------------------------------------------------------------------|----------------|
|  | 173 043<br>1 x |
|  | 173 045<br>6 x |

**Onderdelenoverzicht**  
**Lista da piezas**  
**Resumo de peça individual**

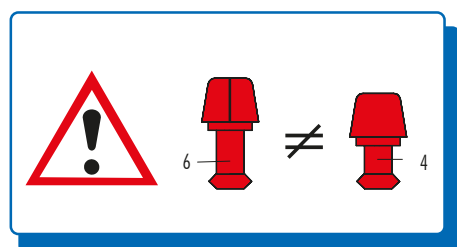
|                                                                                   |                |
|-----------------------------------------------------------------------------------|----------------|
|  | 200 921<br>1 x |
|  | 201 090<br>1 x |

**Singoli componenti**  
**Перечень деталей**  
**零件概览**

|                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|
|  | 202 892<br>1 x |
|                                                                                    |                |

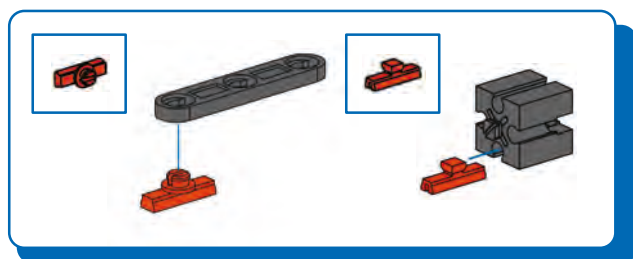
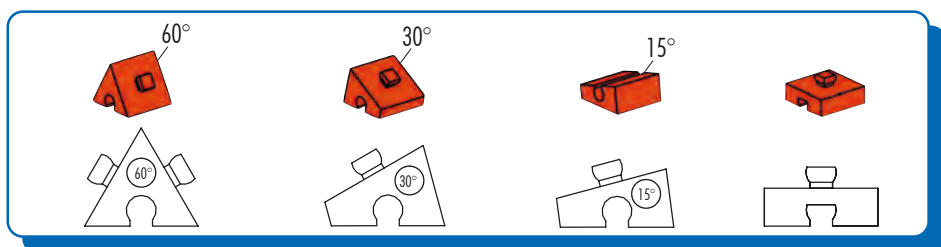
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**Montagetipps**  
**Tips for assembly**  
**Tuyaux pour le montage**



**Montagetips**  
**Consejos para el montaje**  
**"Dicas" para montagem**

**Consigli per il montaggio**  
**Советы по сборке**  
**装配建议**



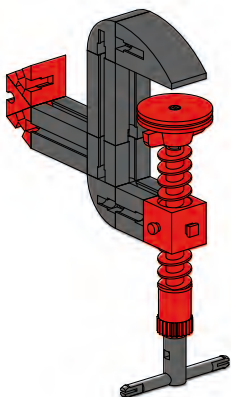
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**Observações sobre segurança**

**Informazioni per la sicurezza**  
**Указания по технике безопасности**  
**安全指南**

- Achtung! Verletzungsgefahr an Bauteilen mit funktionsbedingten scharfen Kanten und Spitzen!
- Caution! Be careful not to hurt yourself on components with sharp or pointed edges!
- Attention! Risque de blessure sur les éléments comportant des arêtes et o pointes vives indispensables au bon fonctionnement!
- Let op! U kunt zich bezeren aan bouwstenen met sherpe randen of punten!
- Atención! icuidado, no te hagas daño con los componentes con bordes afilados o puntiagudos!
- Atenção! Perigo de ferimentos em peças componentes com cantos vivos e pontas obrigatórios para o funcionamento !
- Attenzione! Pericolo di lesioni dovute a componenti con spigoli vivi e punte per motivi funzionali!
- Будьте осторожны! Об острые края деталей и и наконечники можно порезаться!
- 注意！因功能需要而带有锋利的棱边和尖角的部件可能会带来受伤危险！

- Alle Einzelteile, insbesondere bewegliche Teile sind falls notwendig zu warten und zu reinigen.
- All components, especially moving parts, should be maintained and cleaned as necessary.
- Toutes les pièces détachées et en particulier les pièces mobiles, sont, si nécessaire, à entretenir et à nettoyer.
- Alle onderdelen, vooral de bewegende delen, kunnen, indien noodzakelijk, onderhouden en gereinigd worden.
- Es necesario limpiar y mantener en buen estado todas las diferentes piezas - especialmente las piezas móviles.
- Caso necessário, todas as peças individuais, especialmente peças móveis, tem que ser submetidas à manutenção e ser limpadas.
- Se necessario, tutti i singoli componenti, soprattutto le parti mobili, si devono eventualmente sottoporre a manutenzione e pulizia.
- Все детали, особенно подвижные, требуют ухода и чистки.
- 必要时应保养和清洁所有零件，尤指运动部件。

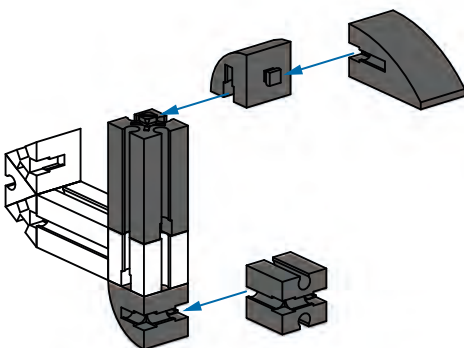
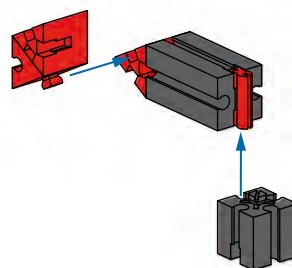
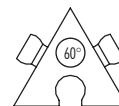
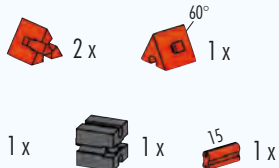


**Headsethalter**  
**Headset holder**  
**Porte-casque**

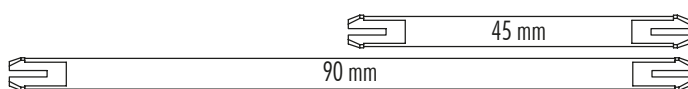
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**Soporte para auriculares**  
**Supporte de auscultadores**

**Supporto per cuffie**  
**Держатель гарнитуры**  
**耳机支架**

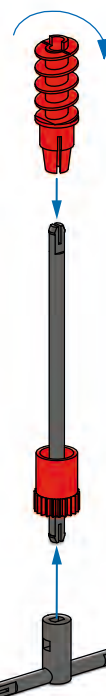
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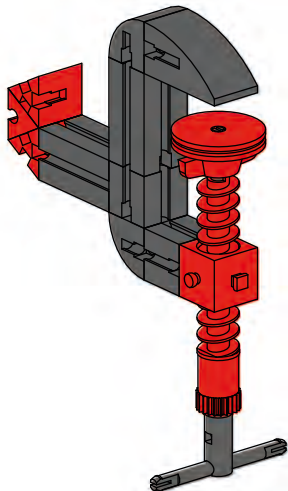
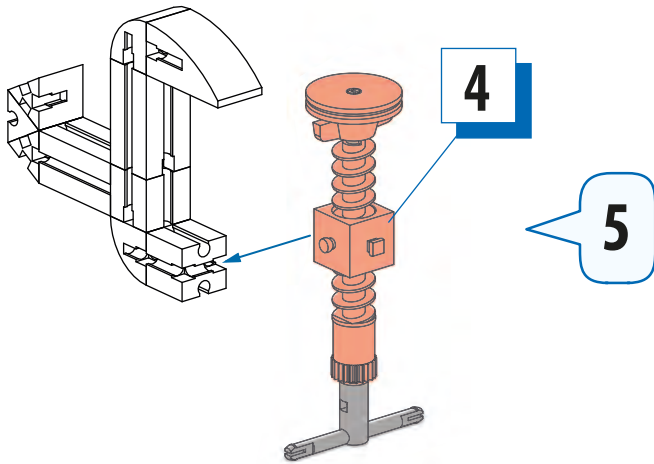
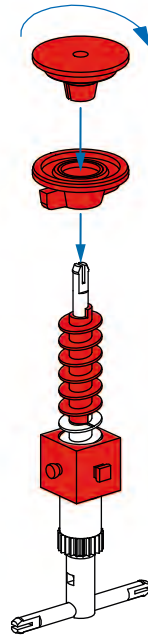
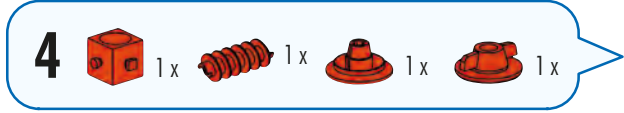


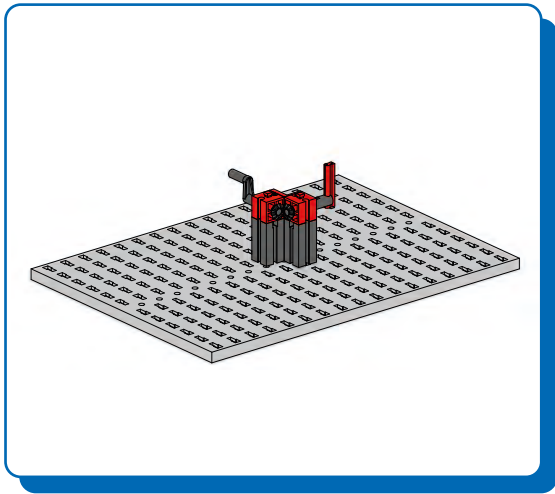
**2**



**3**



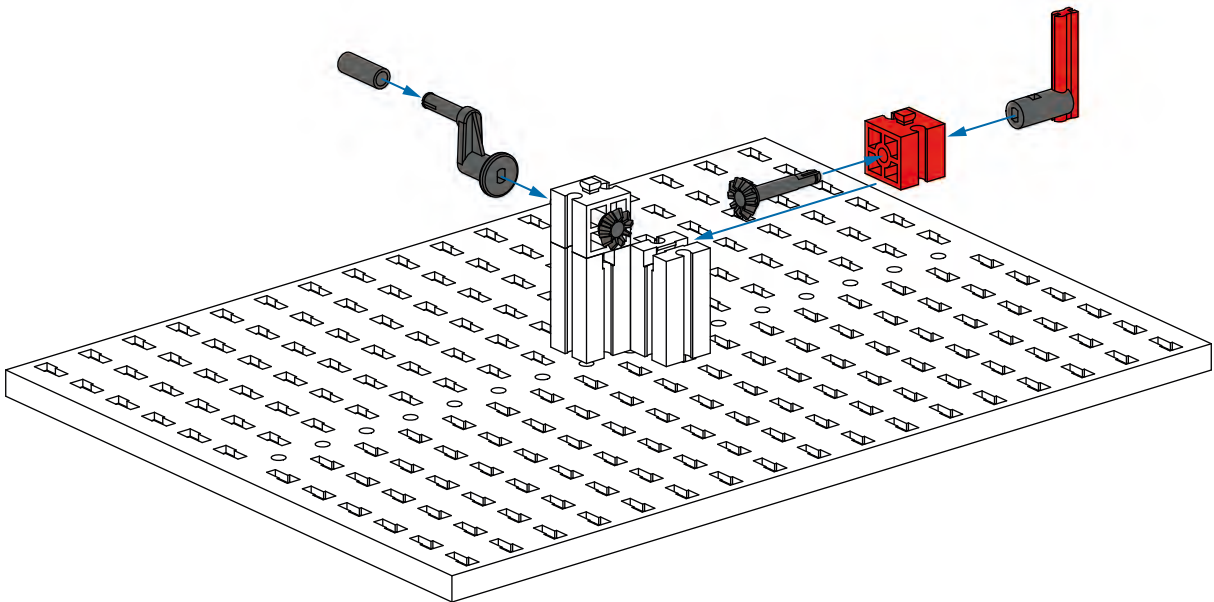
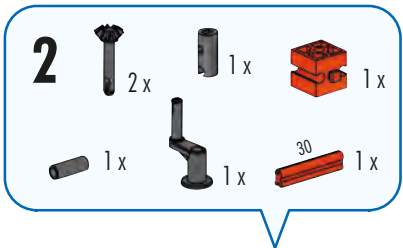
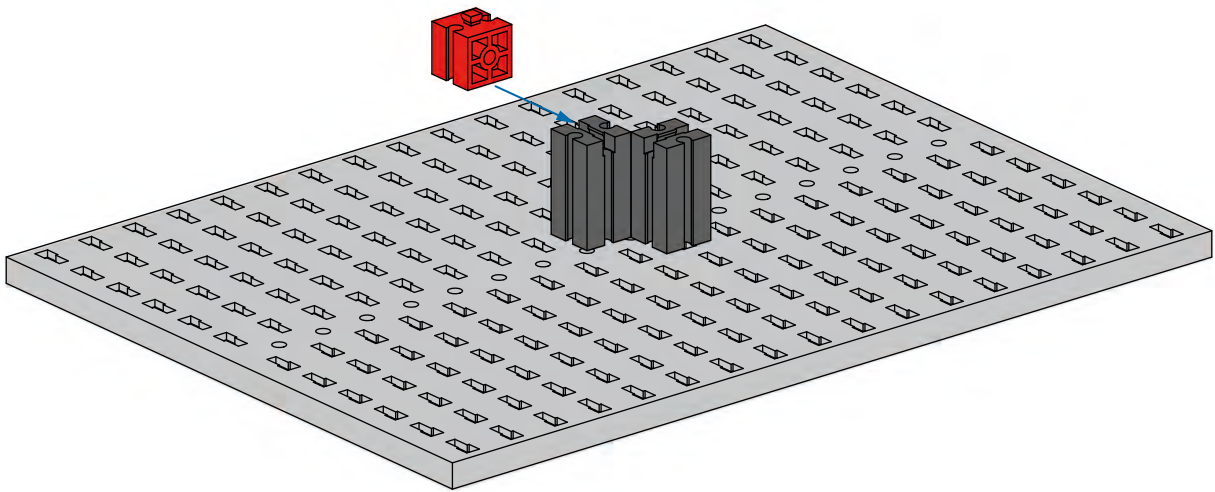
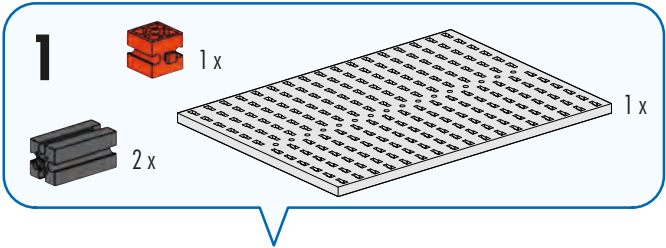




Winkelgetriebe  
Angular gear  
Réducteur d'angle

Hoekig tandwiel  
Engranaje angular  
Engrenagem angular

Ingranaggio angolare  
Угловая передача  
角形齿轮



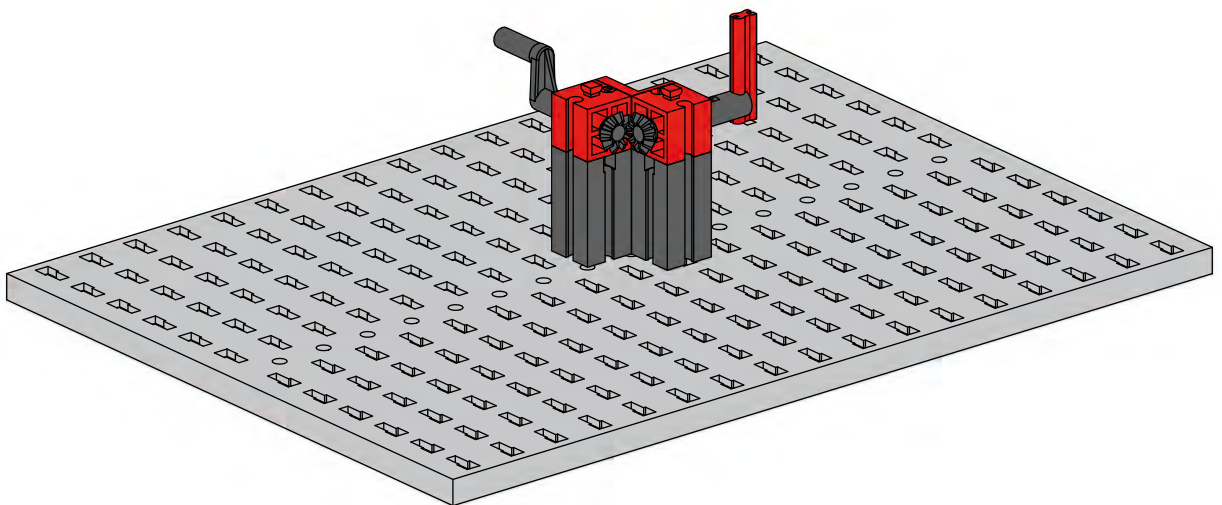
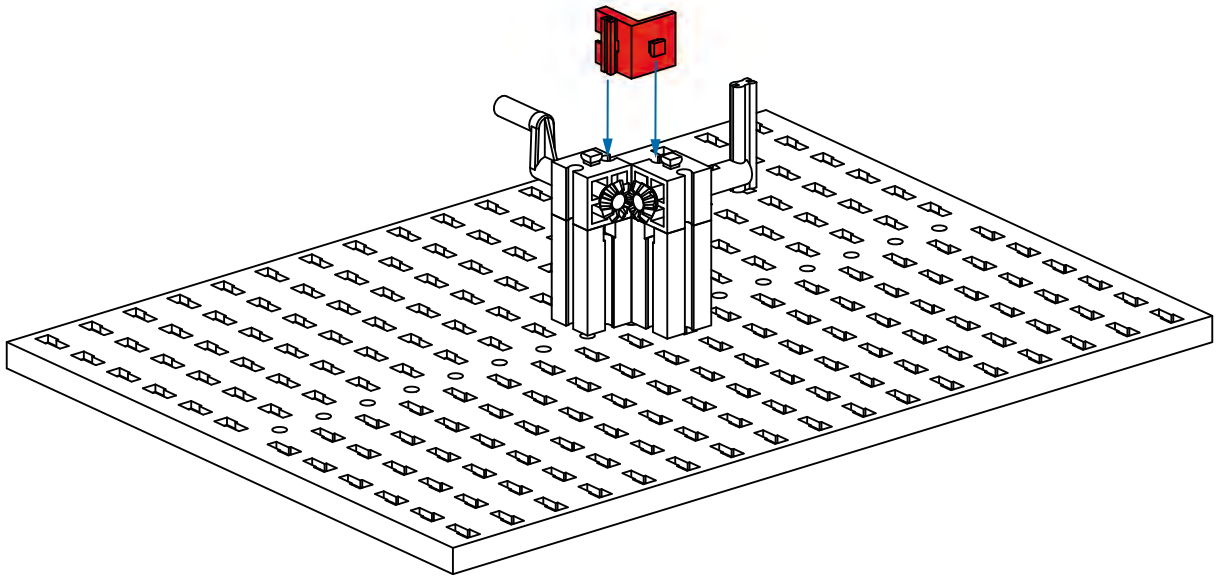
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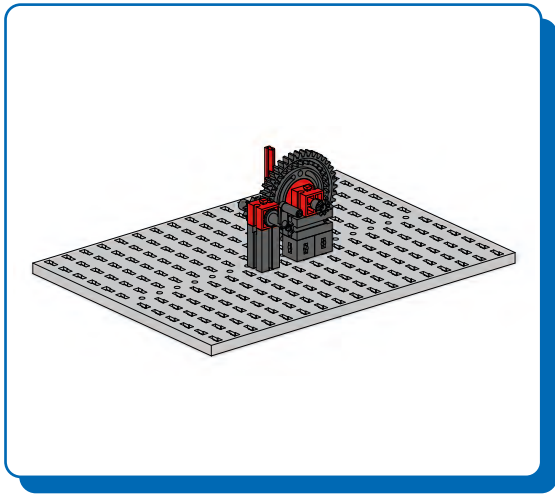


1x



1x





4:1 Stirradgetriebe

4:1 Spur gear

4:1 Réducteur à  
engrenages cylindriques

4:1 Tandwiel

4:1 Engranaje recto

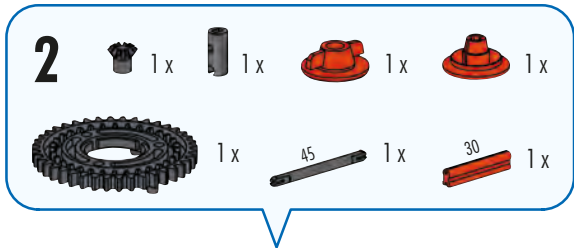
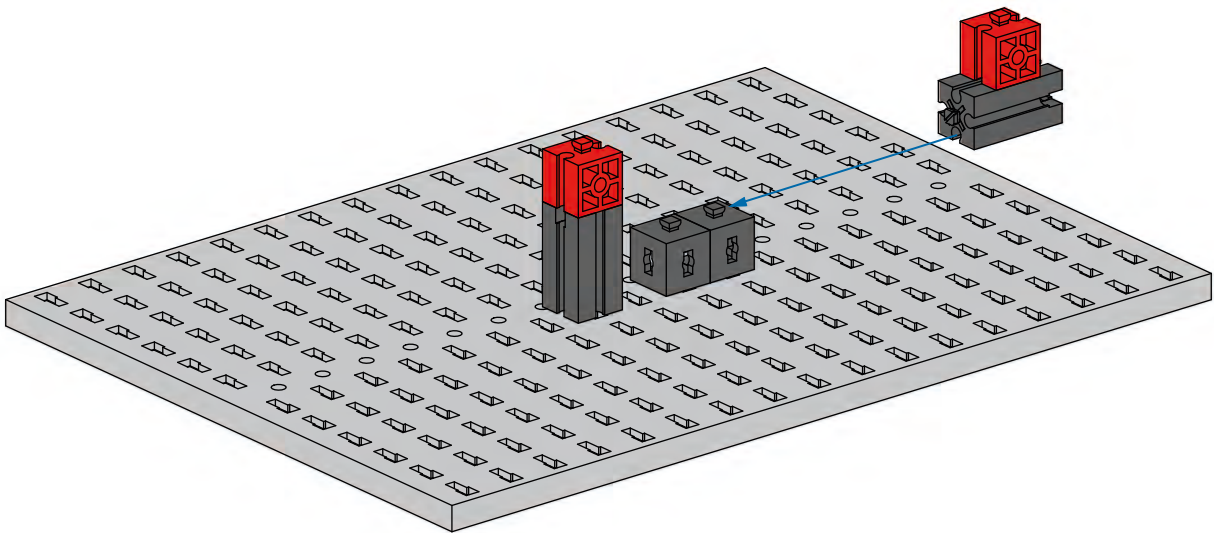
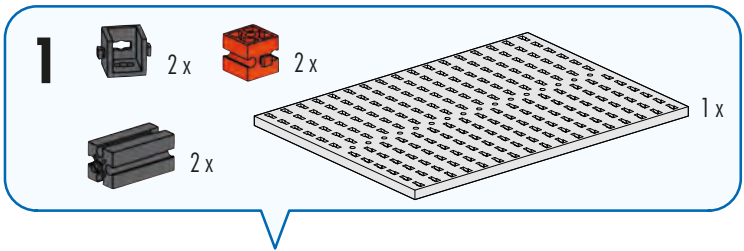
4:1 Equipamento de  
engrenagem

4:1 Ingranaggio

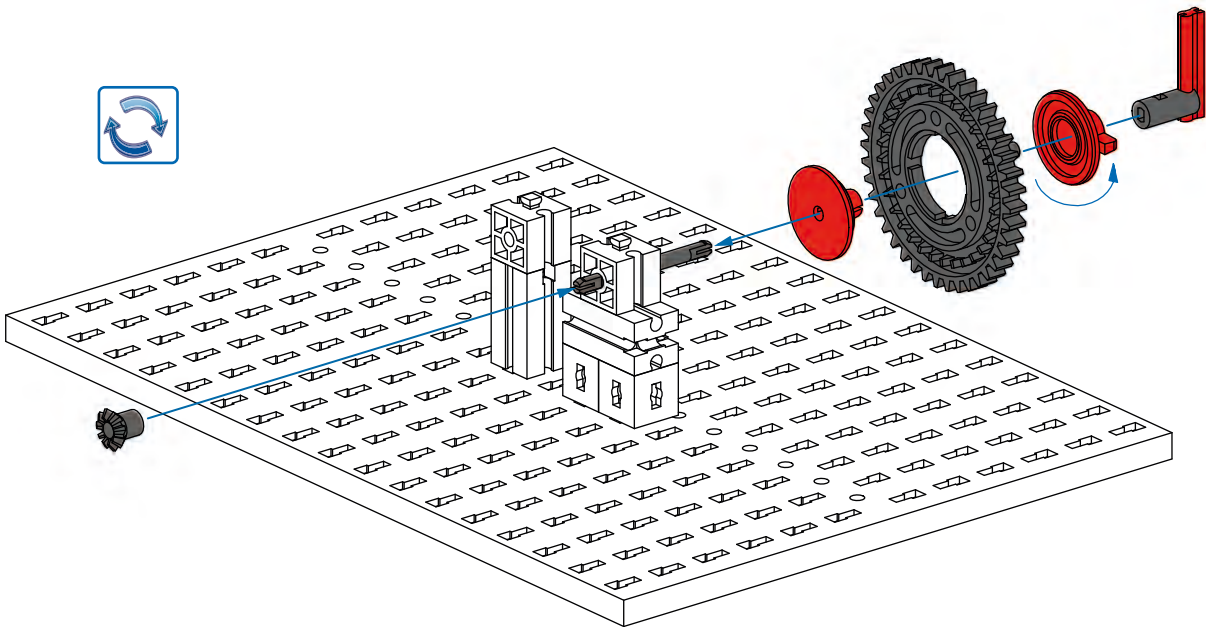
cilindrico

4:1 Прямозубая  
шестерня

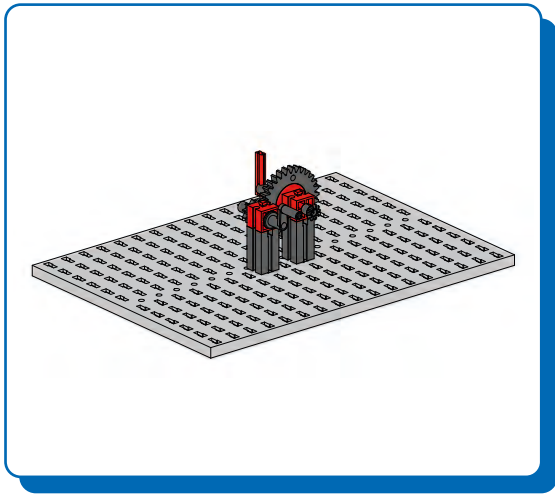
4:1 正齿轮



45 mm







3:1 Stirradgetriebe

3:1 Spur gear

3:1 Réducteur à engrenages cylindriques

3:1 Tandwiel

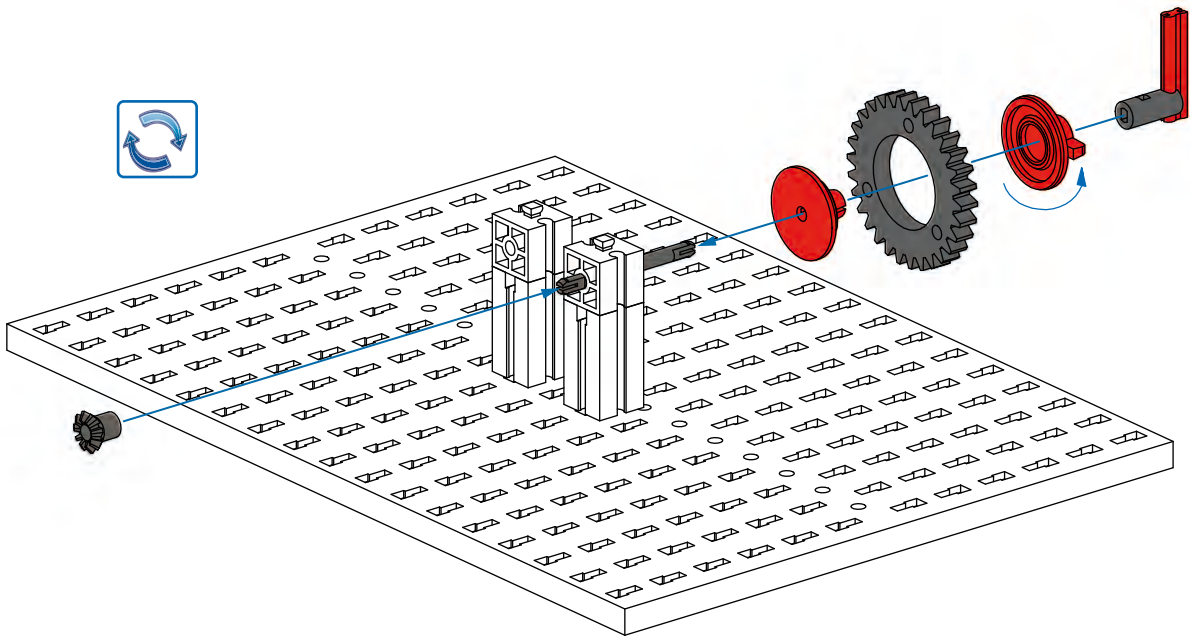
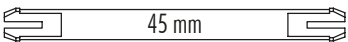
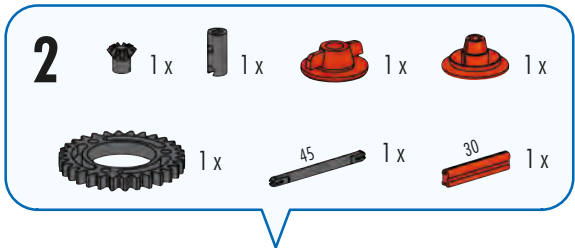
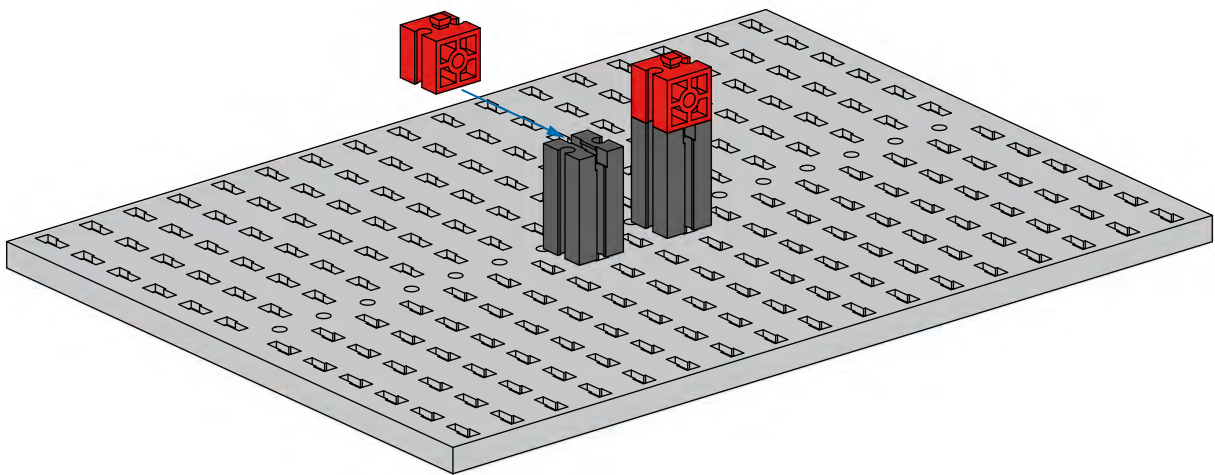
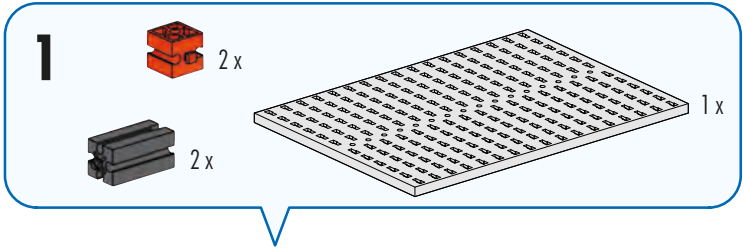
3:1 Engranaje recto

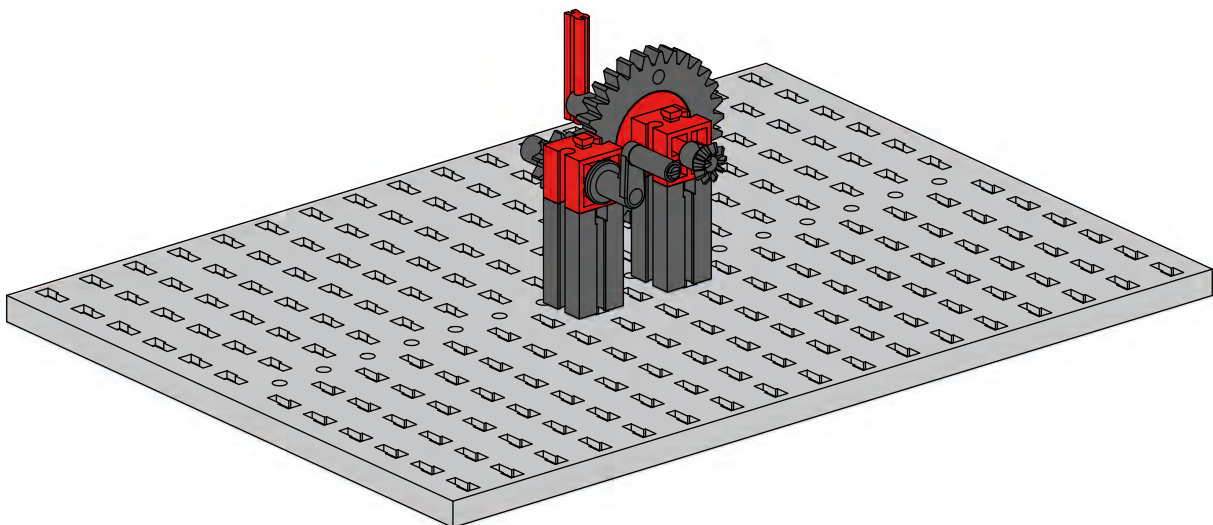
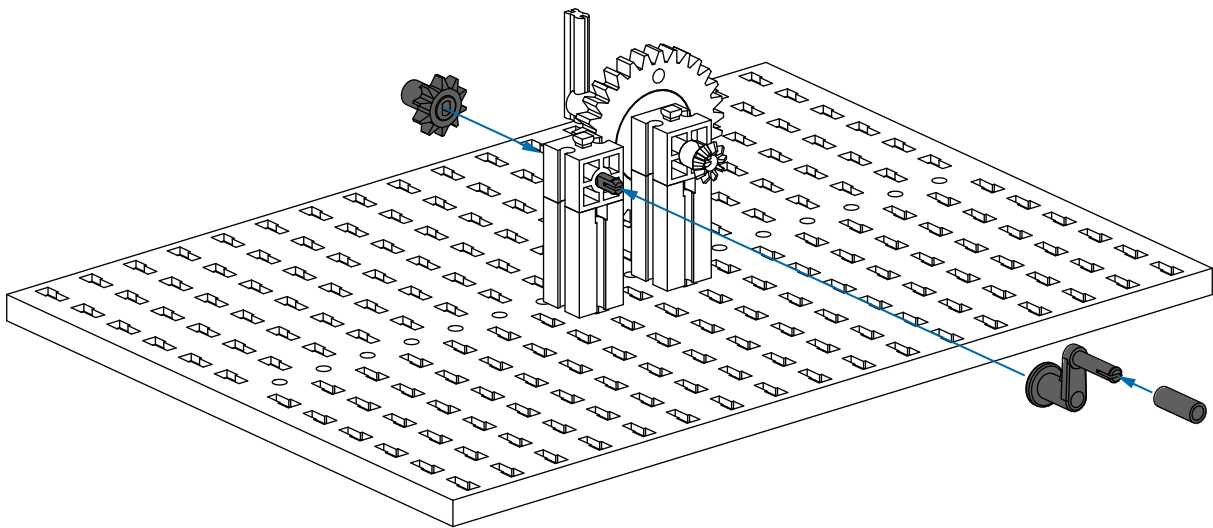
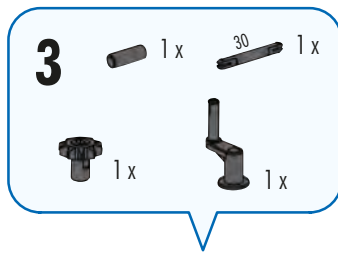
3:1 Equipamento de engrenagem

3:1 Ingranaggio cilindrico

3:1 Прямозубая шестерня

3:1 正齿轮

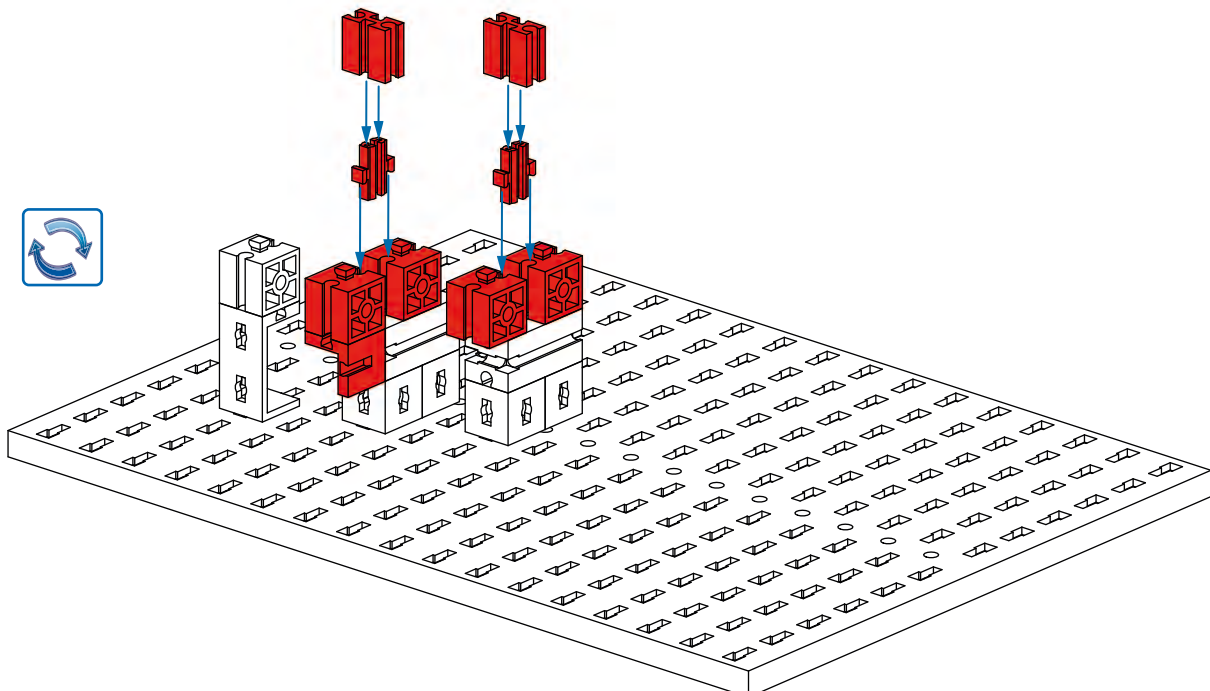
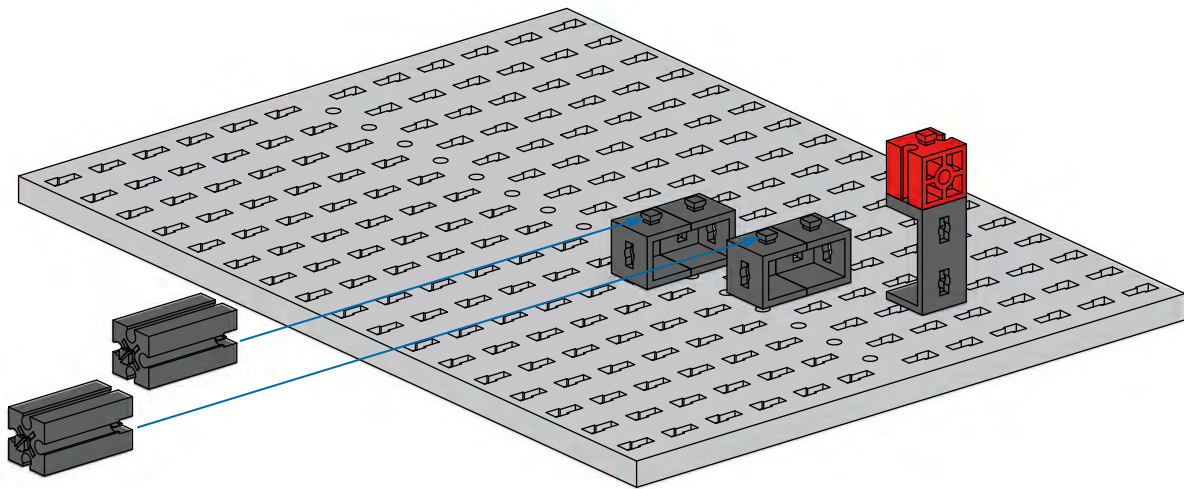






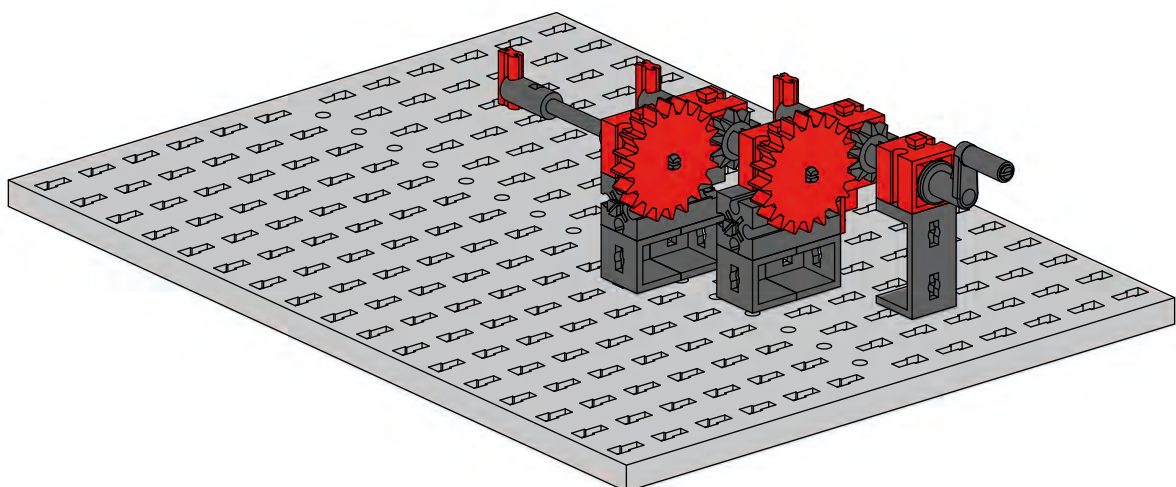
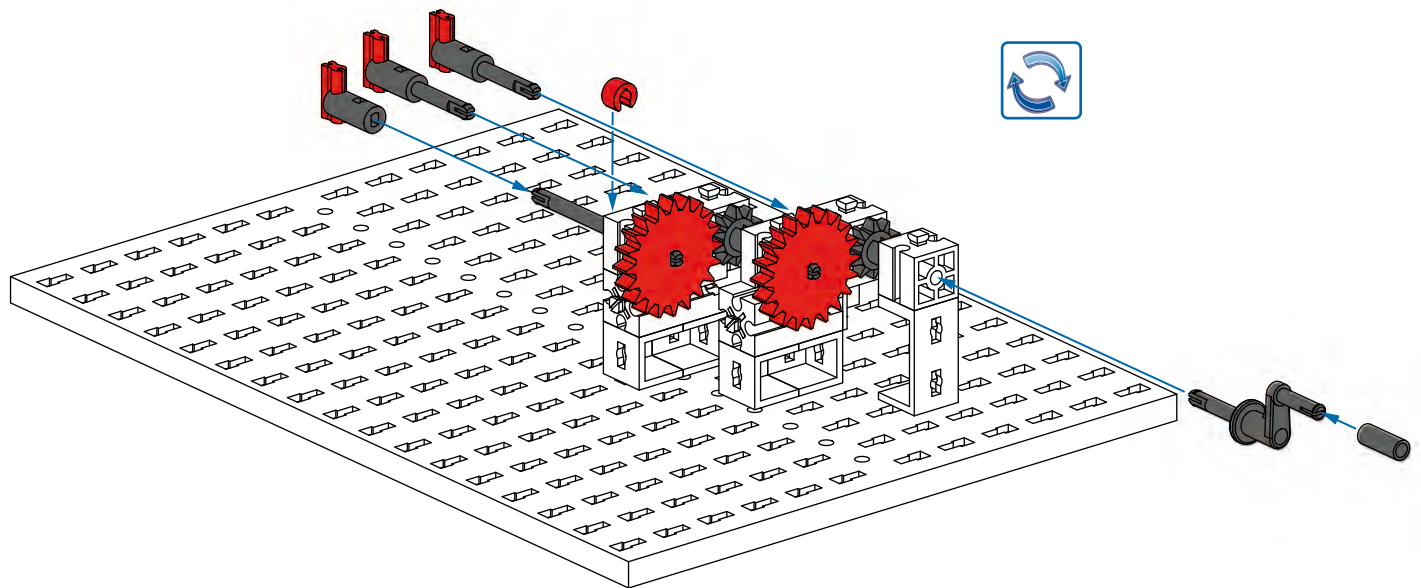
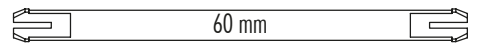
**engranaje recto de dos etapas**  
**engrenagem de esporão de**  
**dois estágios**  
**ingranaggio cilindrico a due**  
**stadi**

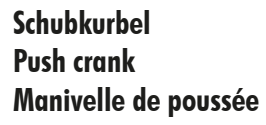
двухступенчатая  
цилиндрическая  
передача  
两级正齿轮



**3**

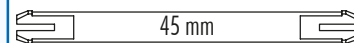
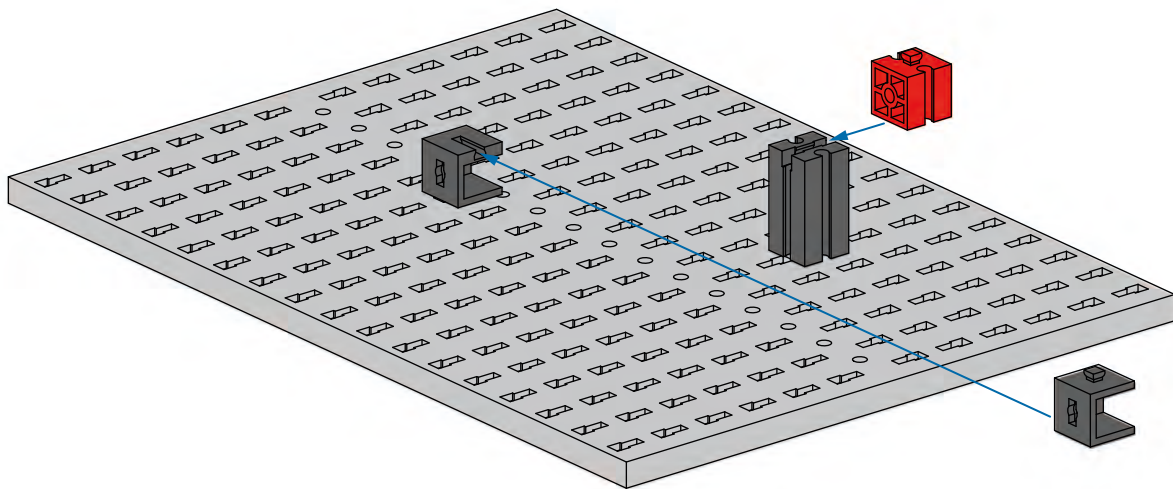
1 x  30 4 x  3 x  15 3 x  1 x   
 2 x  1 x  60 1 x  2 x 





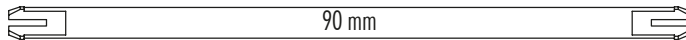
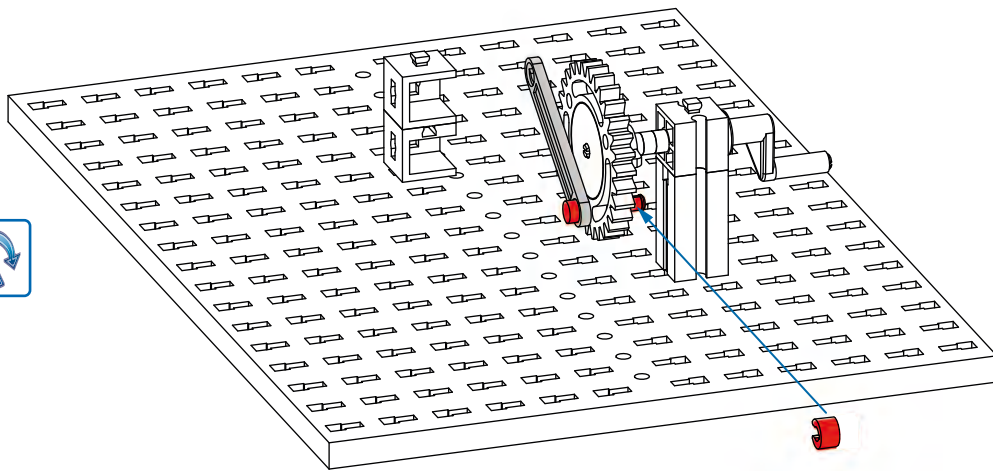
**Duwkruk**  
**Manivela de empuje**  
**Manivela de empurrar**

**Manovella di spinta**  
Нажимная рукоятка  
推动曲柄



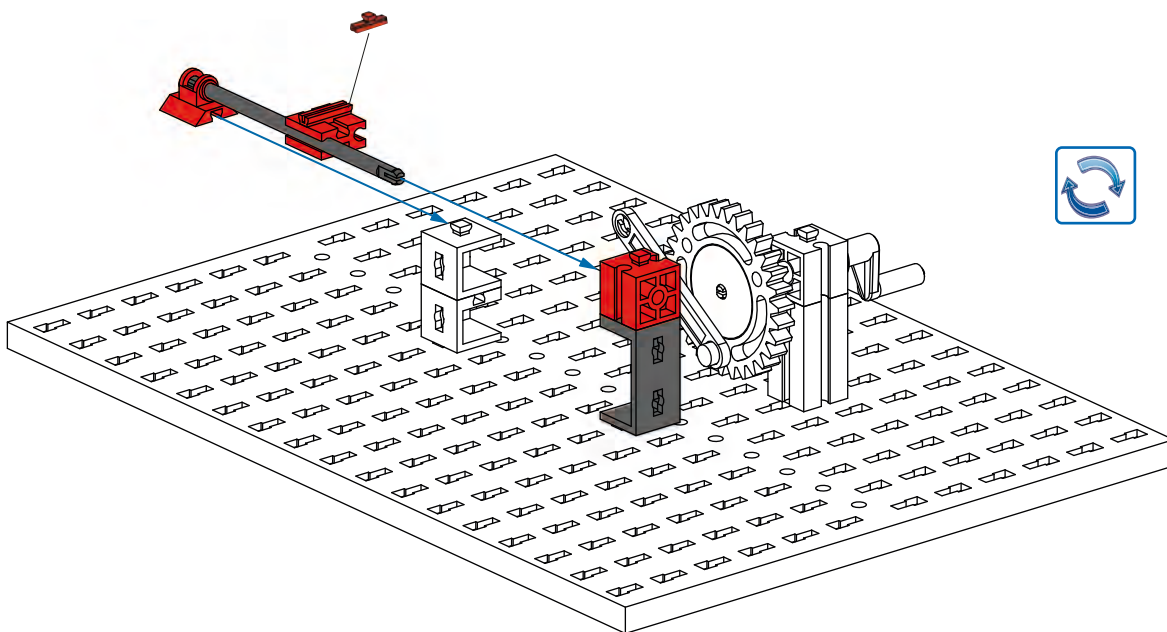
**3**

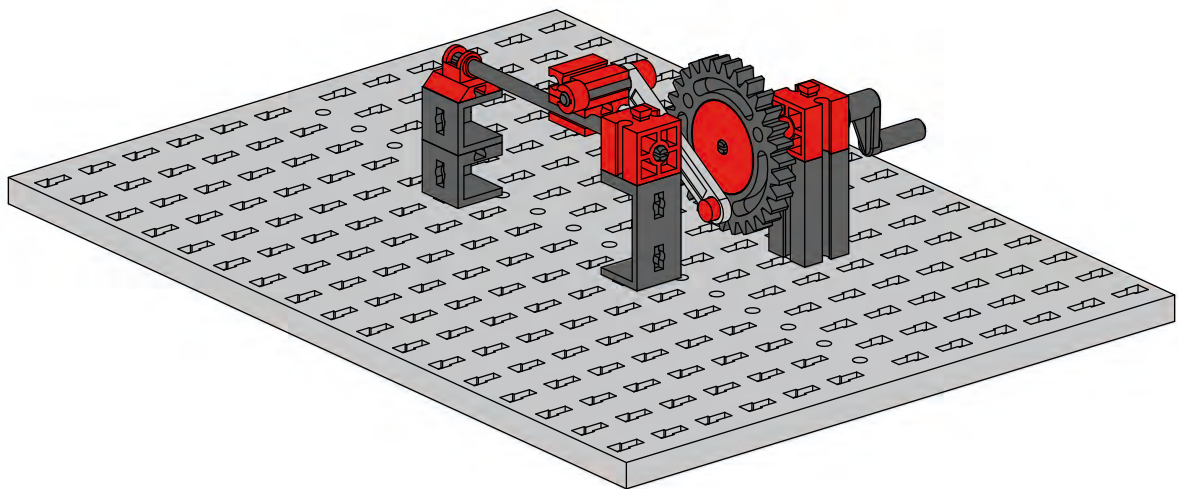
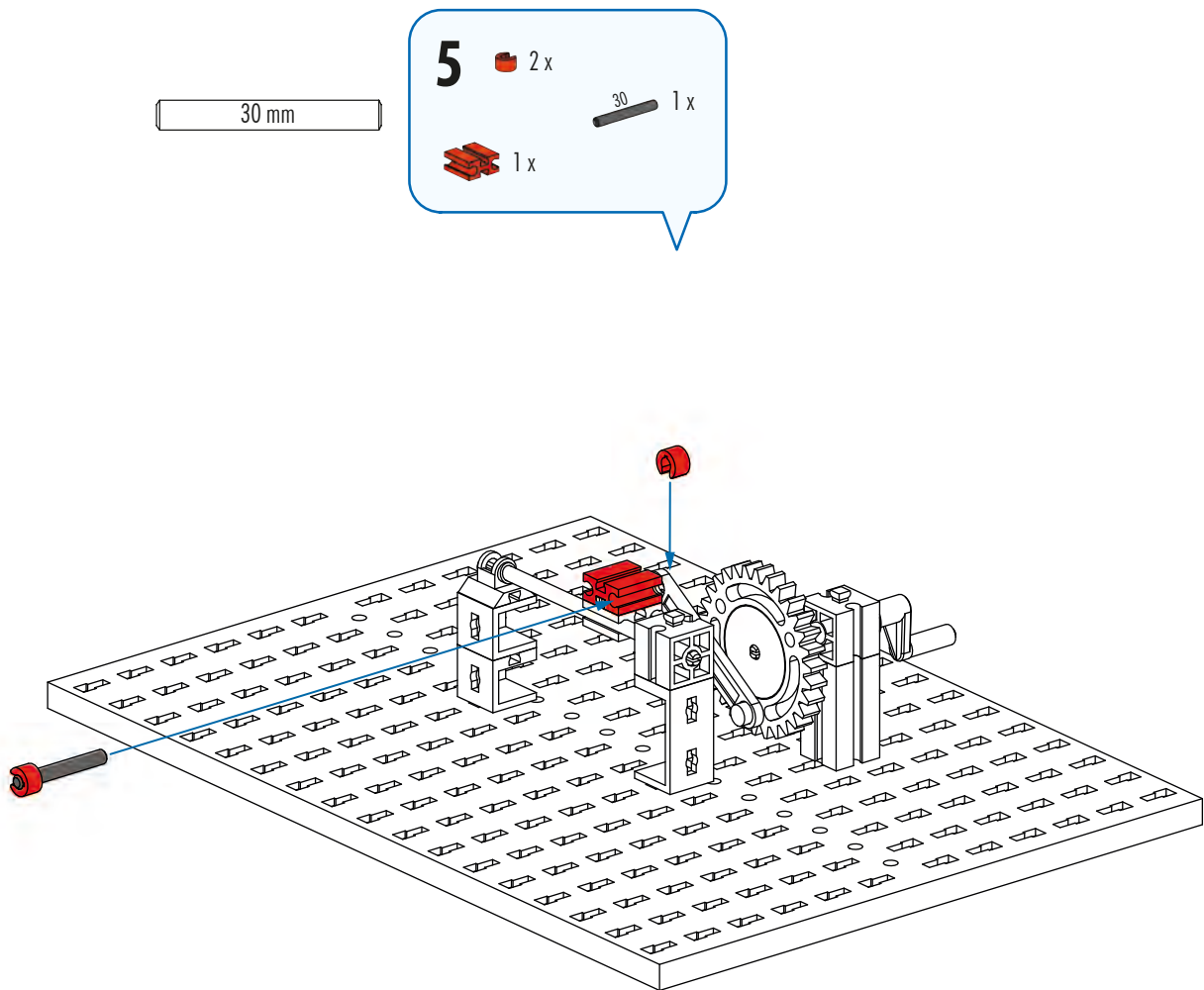
- 1 x
- 1 x
- 1 x

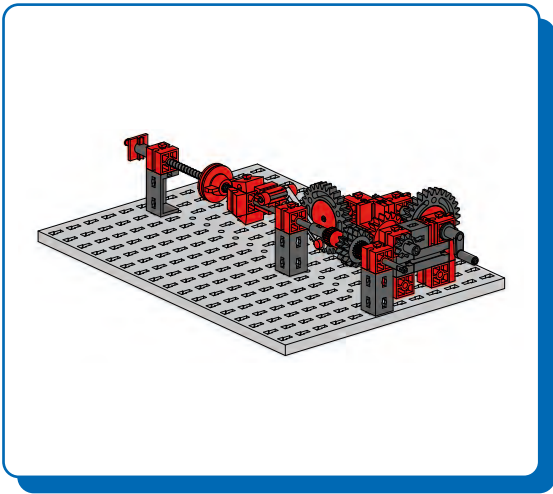


**4**

- 1 x
- 1 x
- 1 x
- 1 x
- 1 x
- 1 x







**Bohrhammer**  
**Hammer drill**  
**Marteau perforateur**

**Hamerboor**  
**Martillo perforador**  
**Martelo perforador**

**Trapano a percussione**  
**Дрель с молотком**  
**锤钻**

1

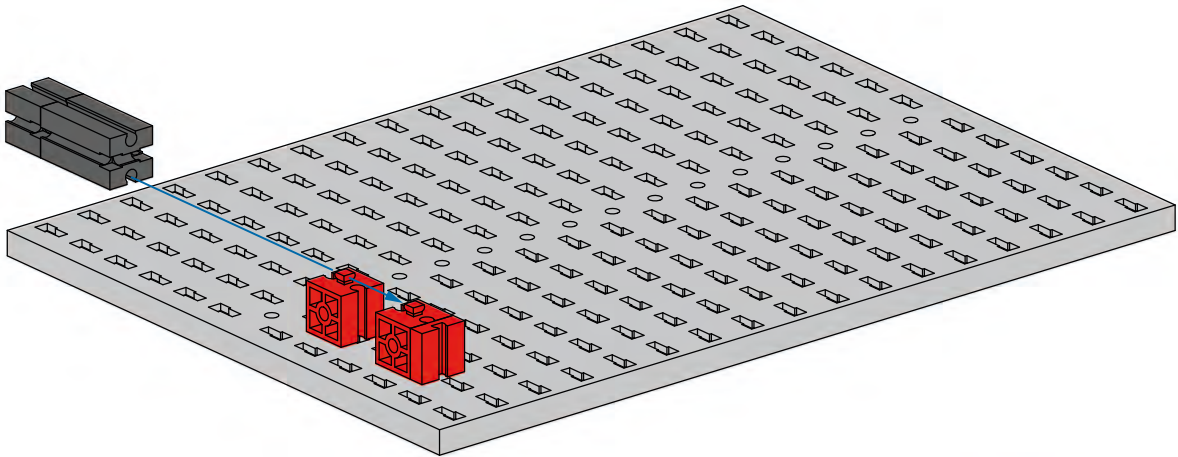
1x

2x

1x

1x

1x



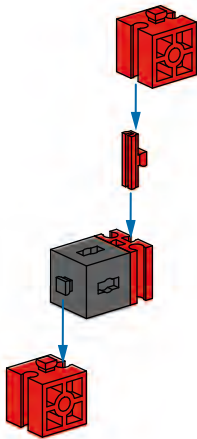
2

1x

1x

1x

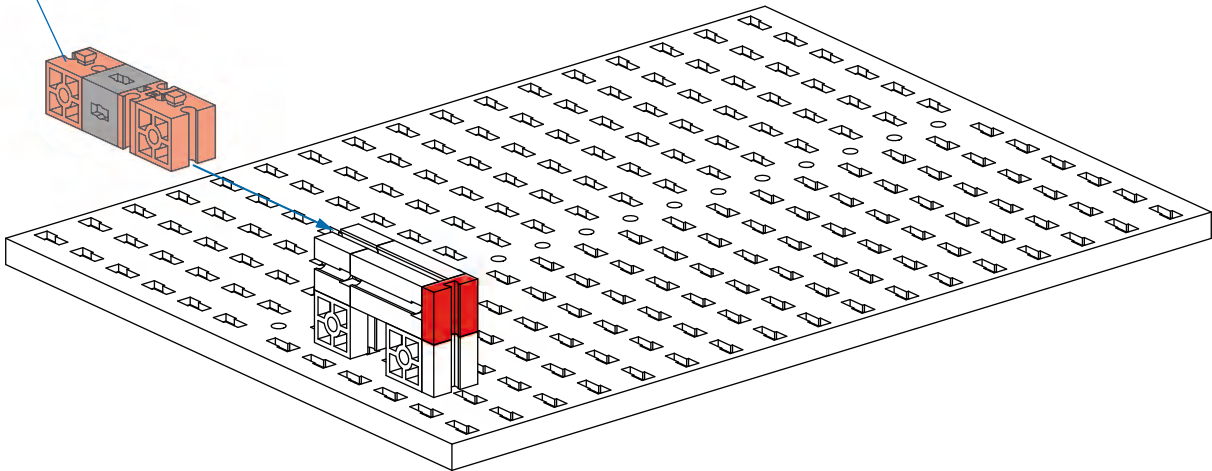
2x



3

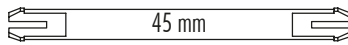
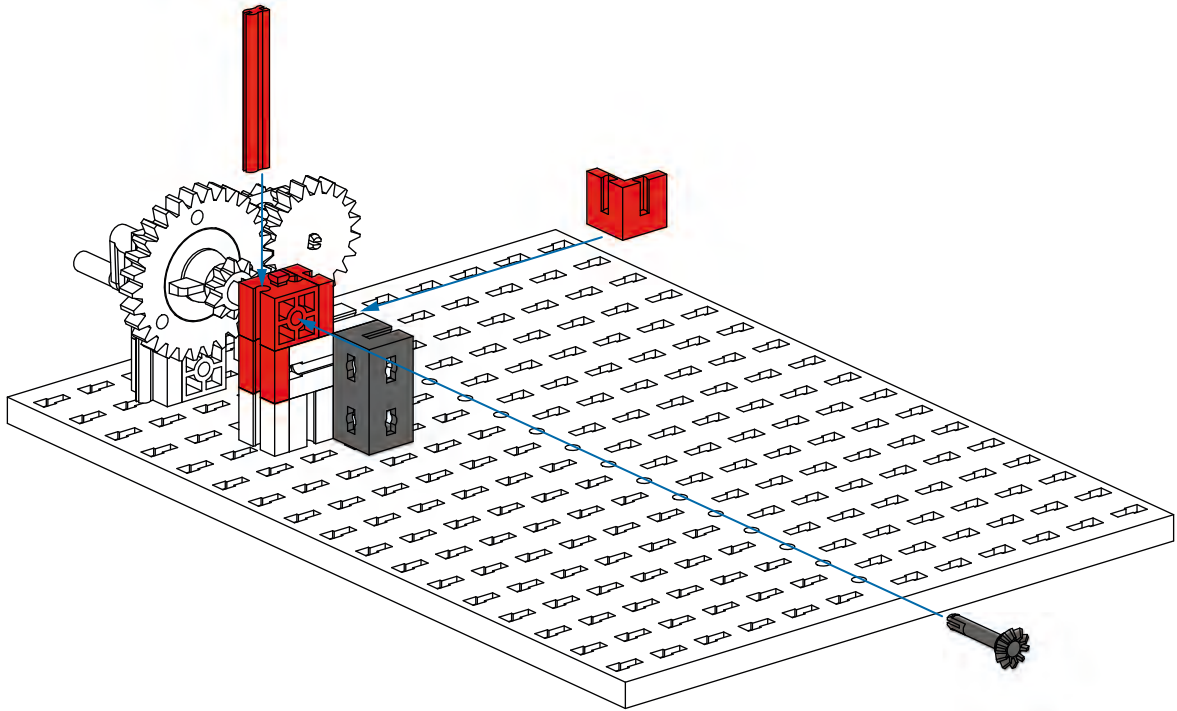
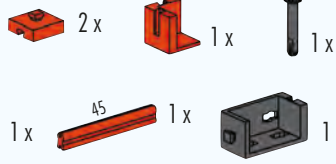
1x

2

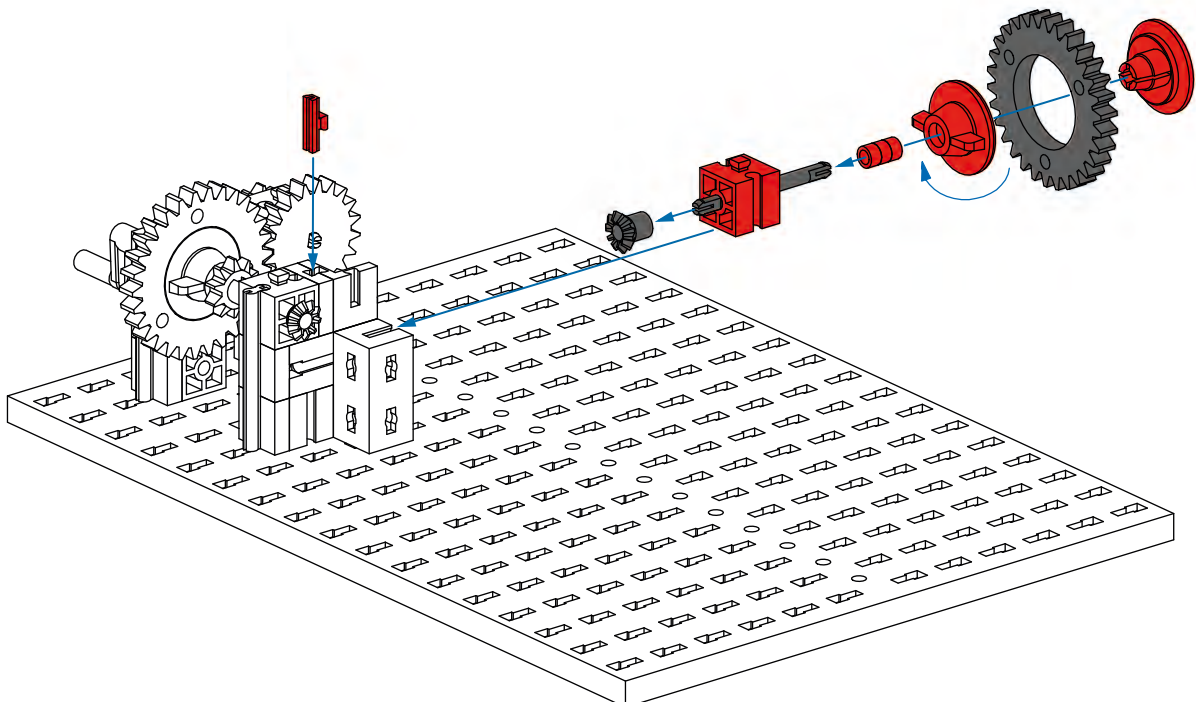
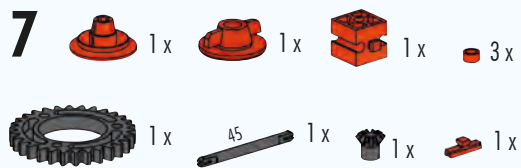




6



7





1 x

 $1 \times$ 

1 x



1 x



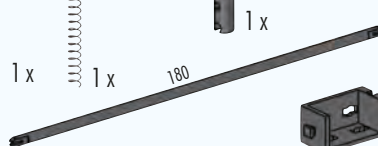
K



1 x



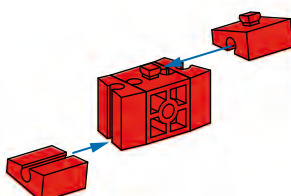
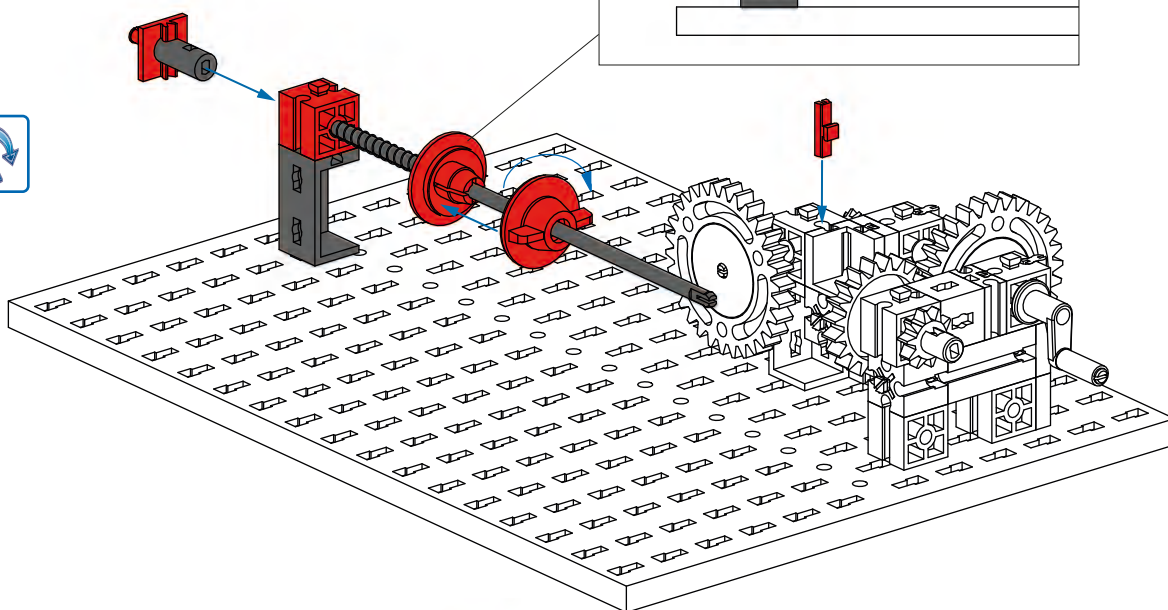
1 x



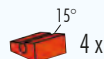
180



1x



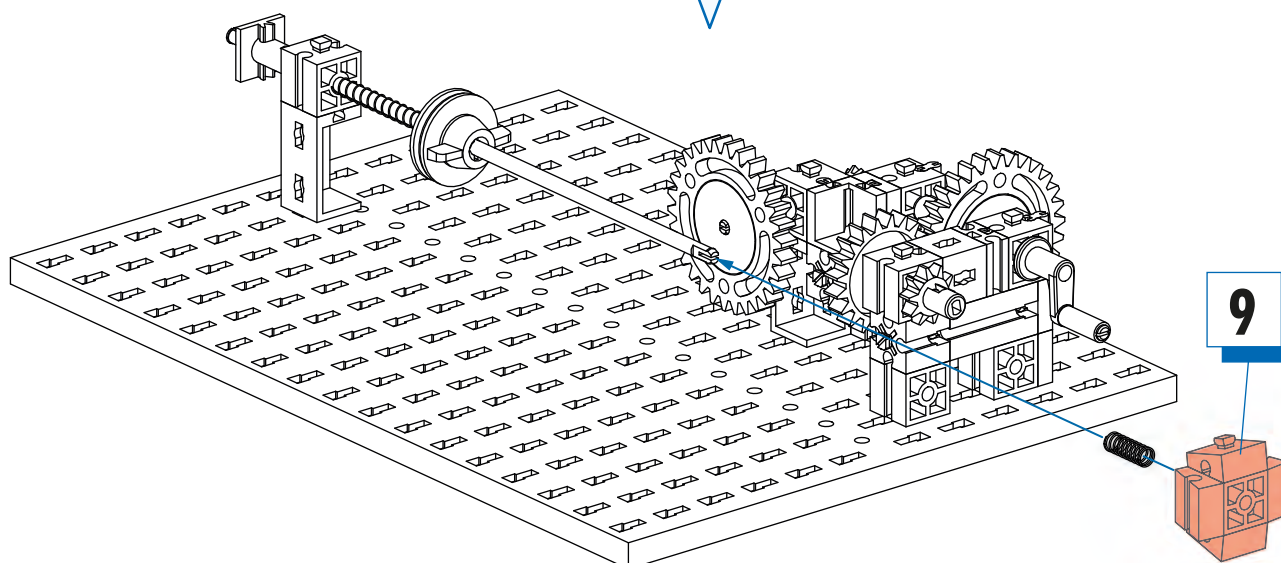
13



4



1 x



9

11

30 1 x

45 1 x

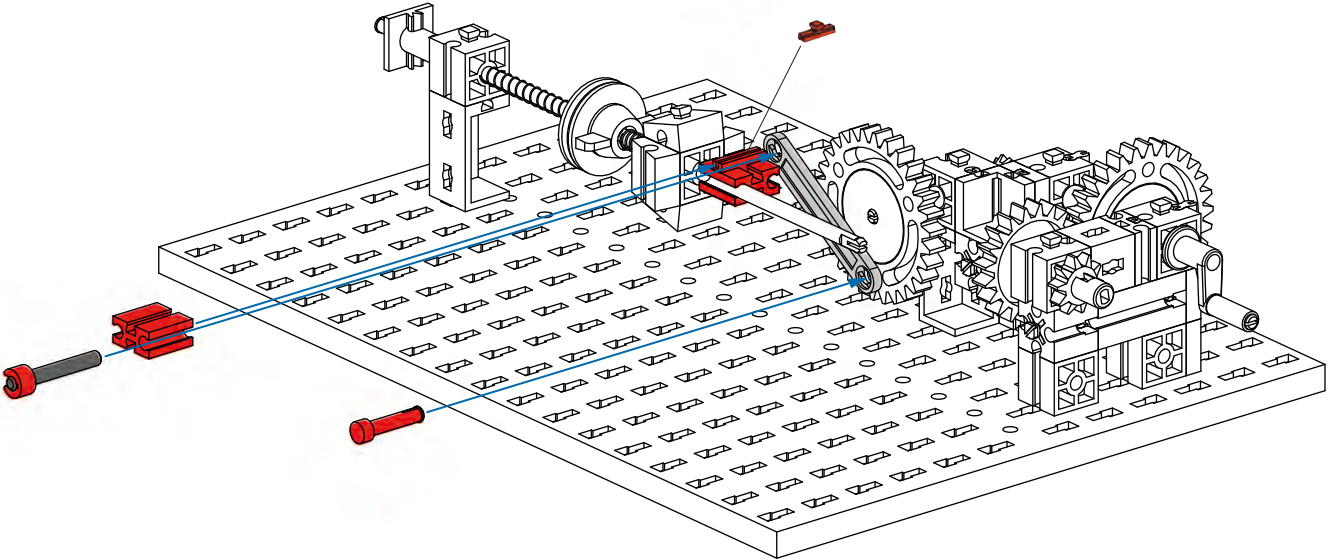
2 x

1 x

1 x

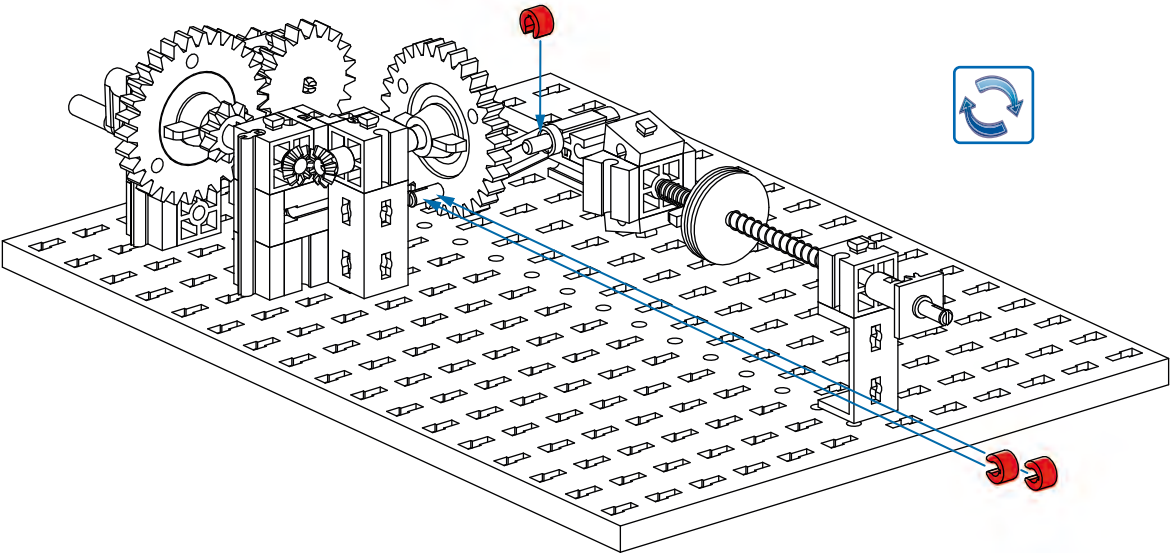
1 x

30 mm

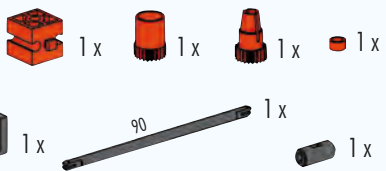


12

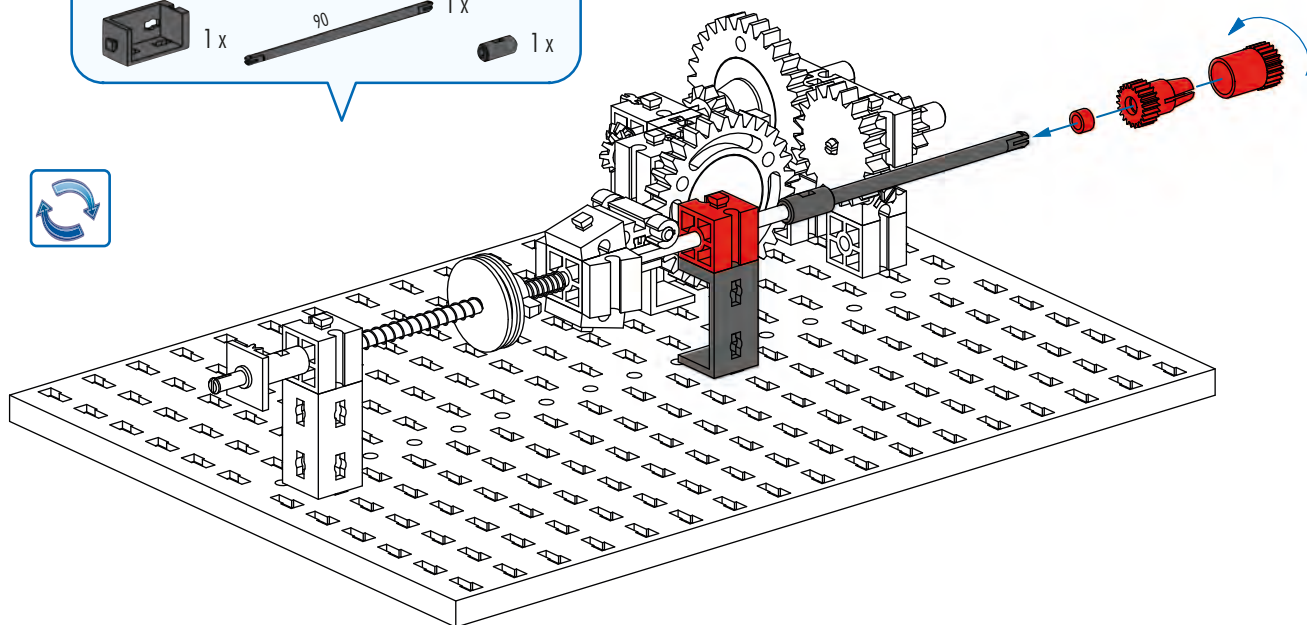
3 x



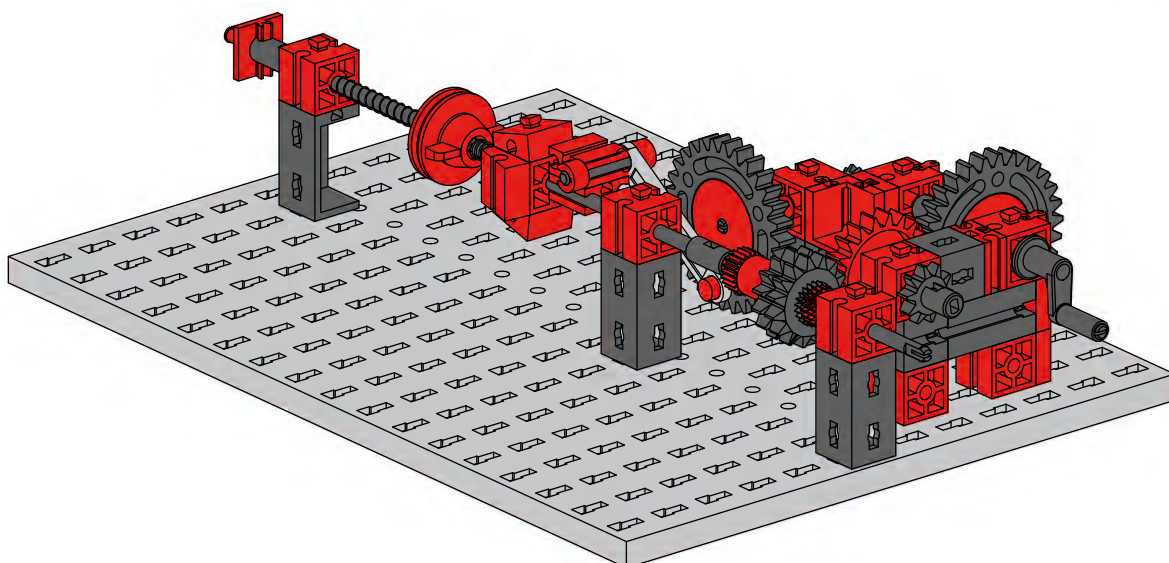
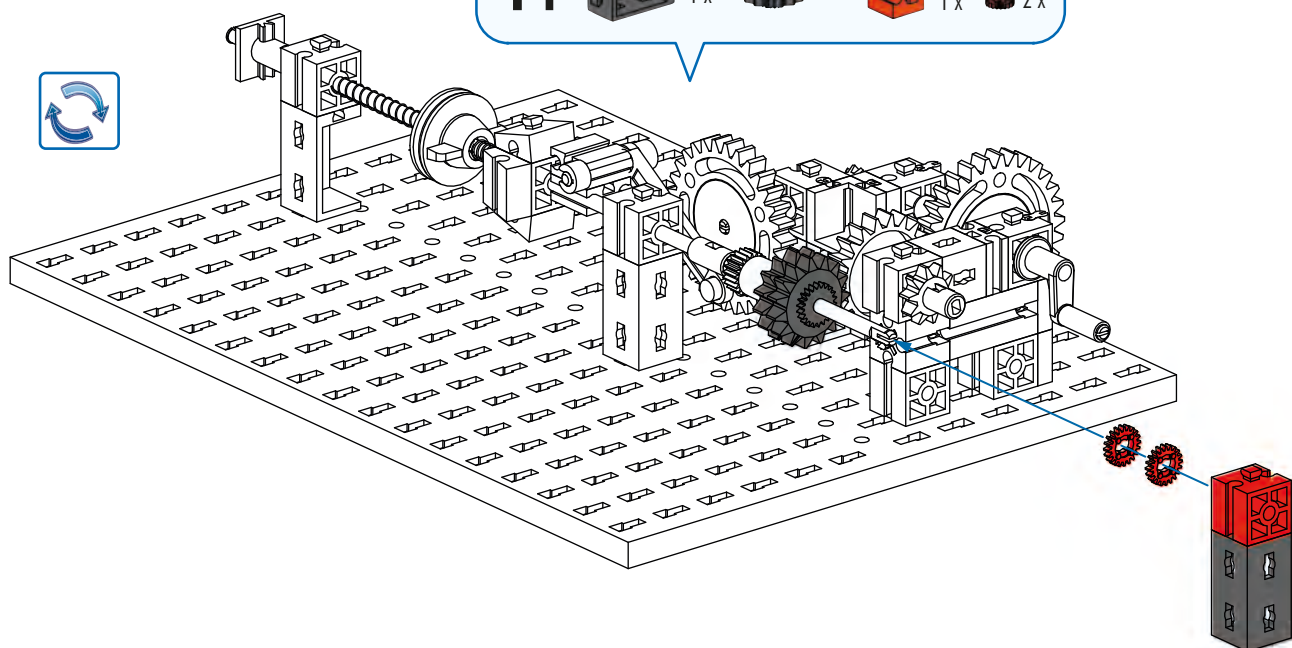
13

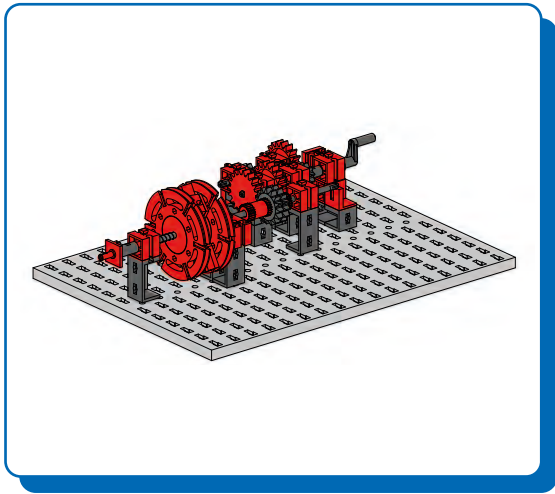


90 mm



14

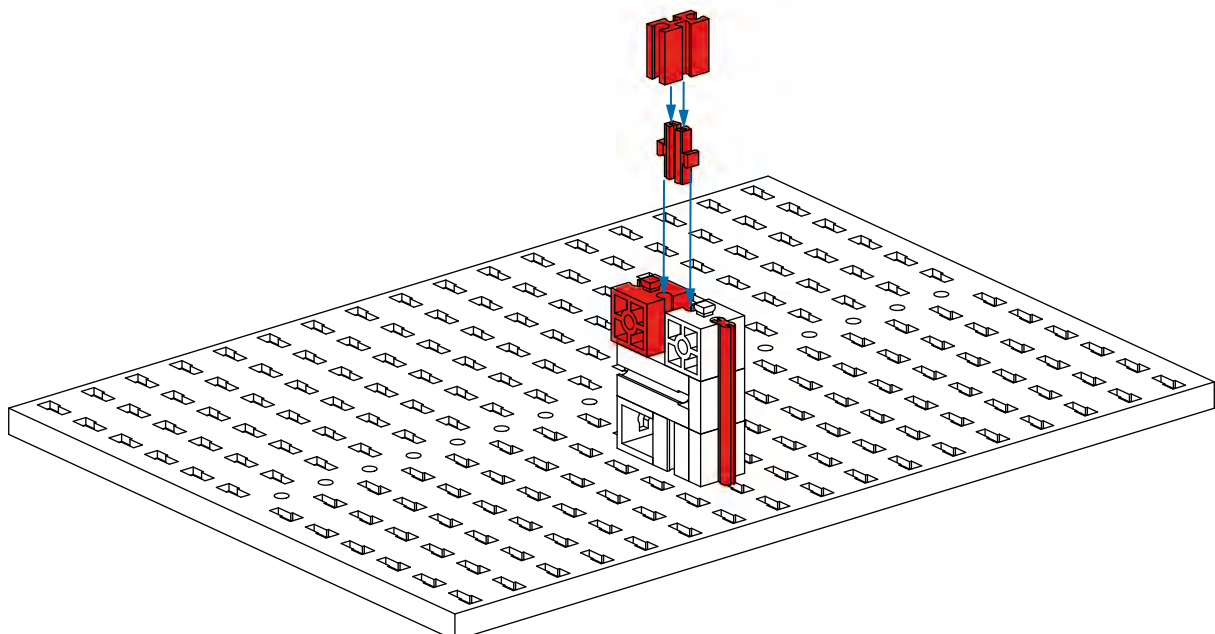
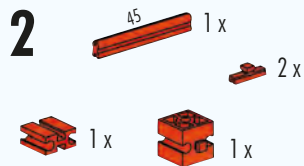
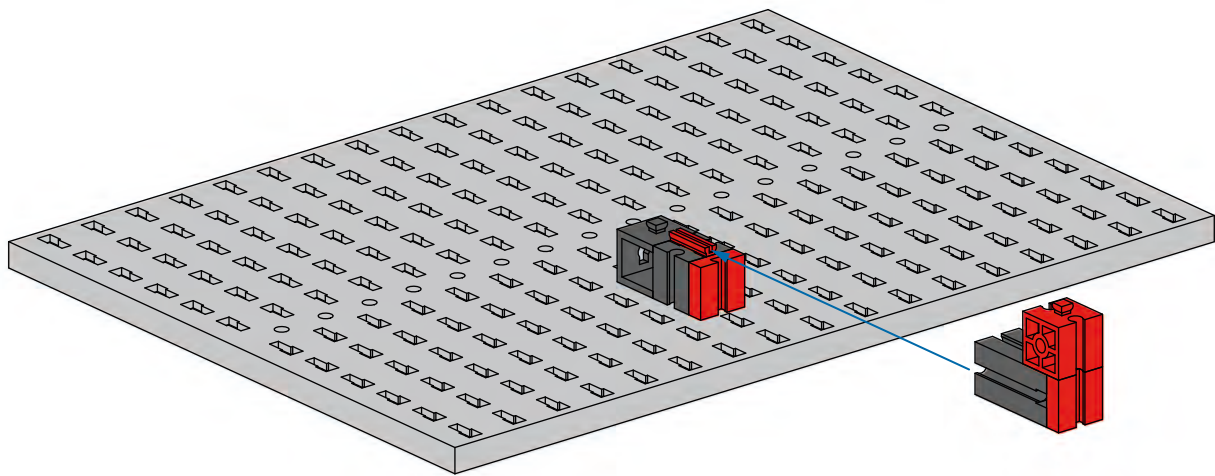
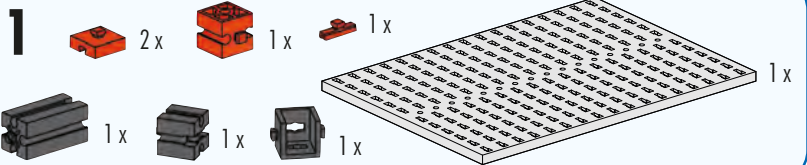


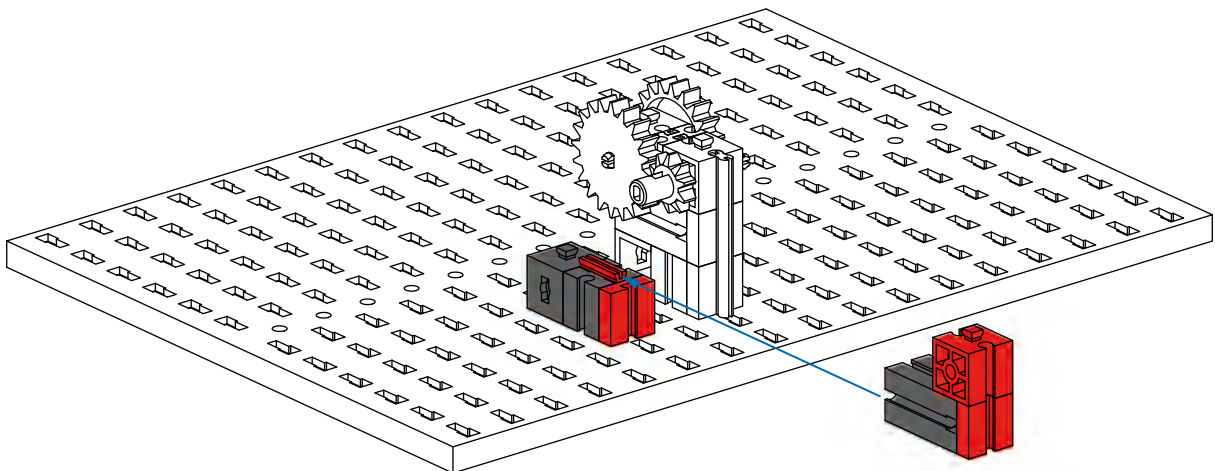
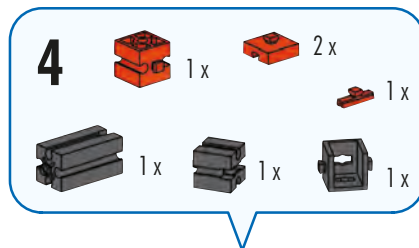
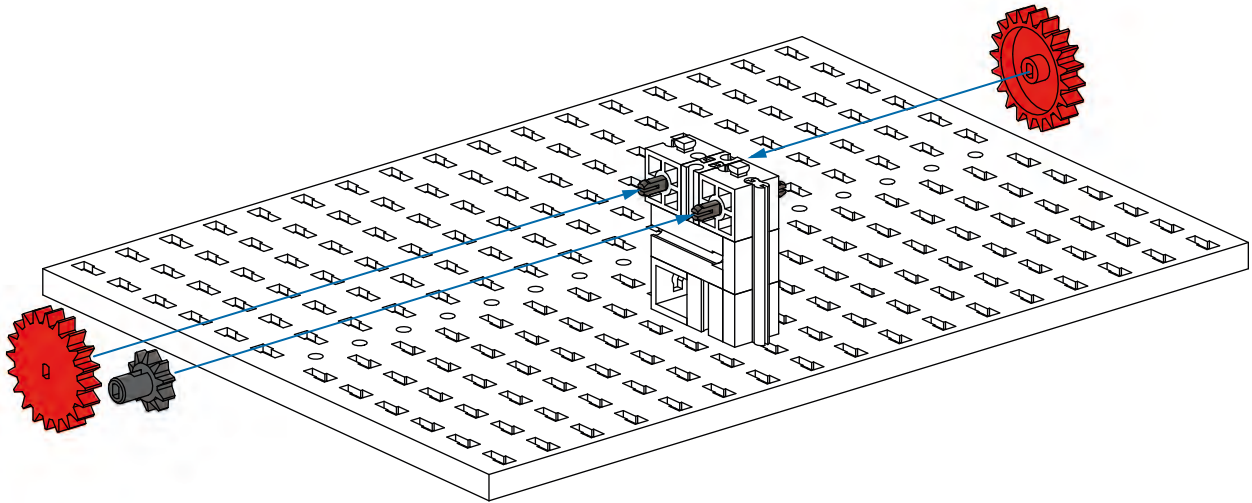
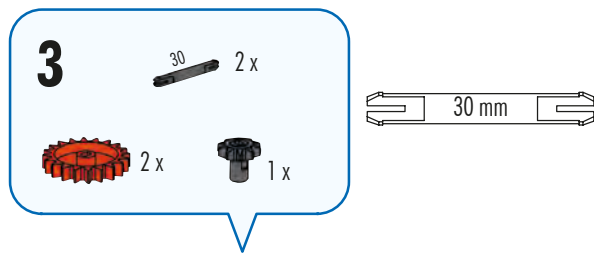


Schlagbohrer  
Percussion drill  
Perceuse à percussion

Slagboor  
Taladro de percusión  
Perfuratriz de percussão

Trapano a percussione  
Ударная дрель  
敲击式钻头





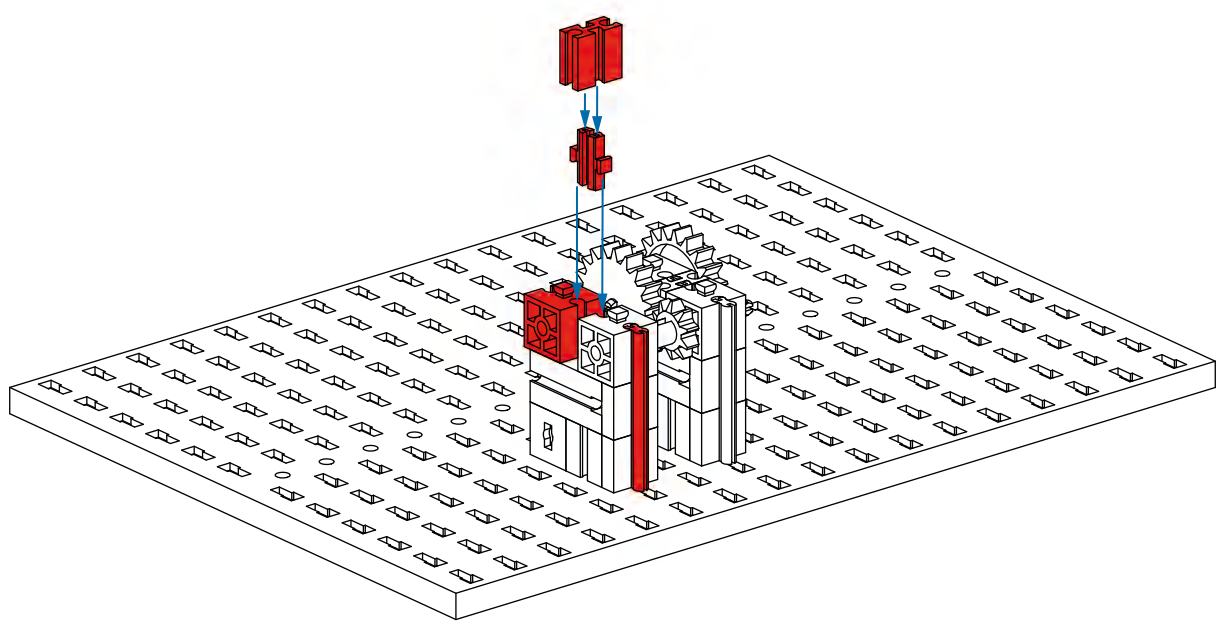
**5**

45 1 x

2 x

1 x

1 x

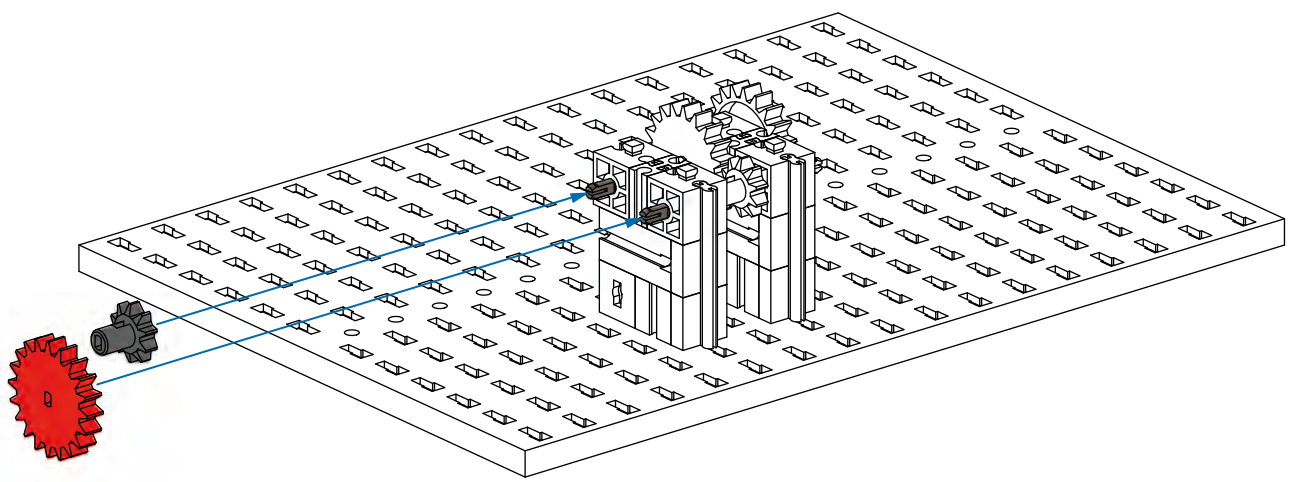
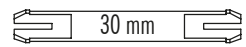


**6**

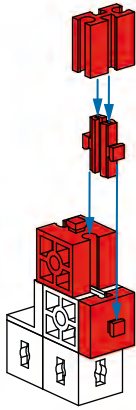
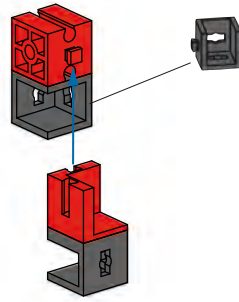
30 2 x

1 x

1 x



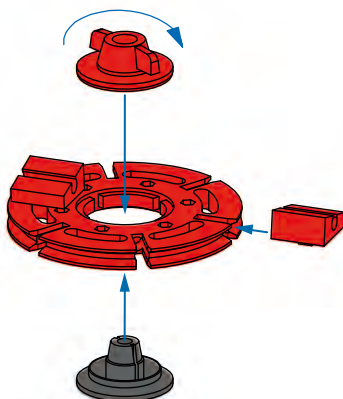
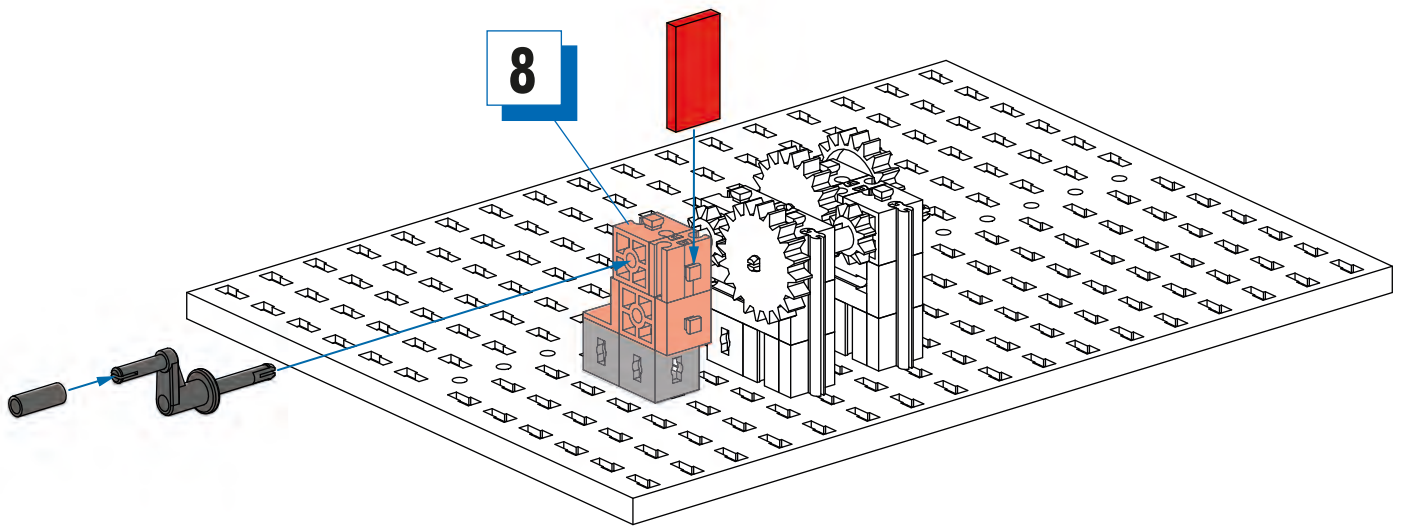
- 7**
- 1x [Black 1x2 Technic Brick]
  - 1x [Red 1x2 Technic Brick]
  - 1x [Black 1x2 Technic Brick]
  - 1x [Red 1x2 Technic Brick]



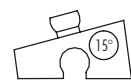
- 8**
- 1x [Red 1x2 Technic Brick]
  - 2x [Red 1x2 Technic Brick]
  - 1x [Red 1x2 Technic Brick]
  - 1x [Red 1x2 Technic Brick]

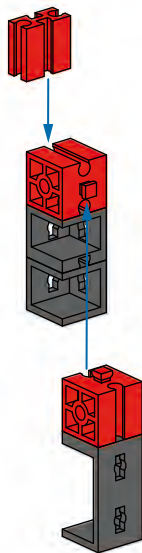
- 9**
- 1x [Black 1x2 Technic Brick]
  - 1x [Red 1x2 Technic Brick]
  - 1x [Black 1x2 Technic Brick]
  - 1x [Red 1x2 Technic Brick]

30 mm



- 10**
- 1x [Red 1x2 Technic Brick]
  - 1x [Black 1x2 Technic Brick]
  - 1x [Red 1x2 Technic Brick]
  - 2x [Red 1x2 Technic Brick]



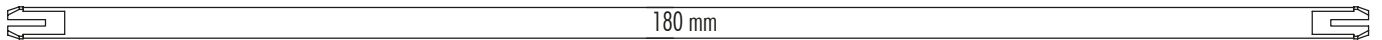
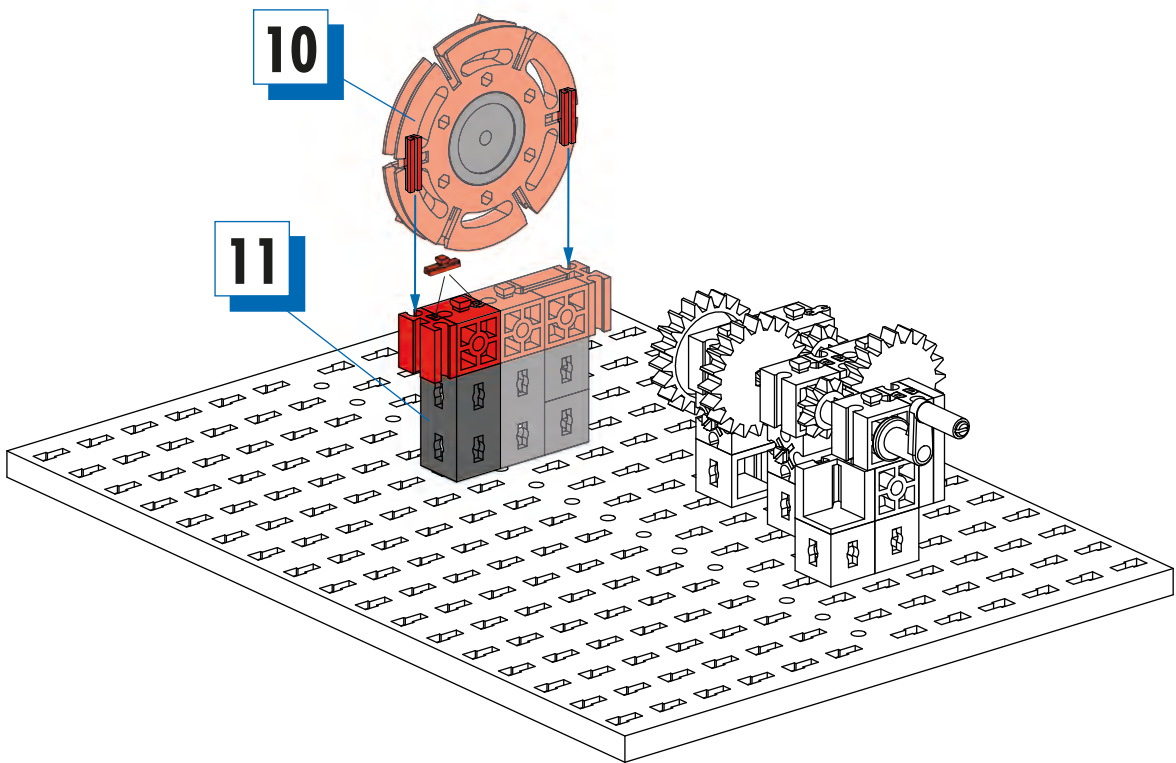


**11**

- 1x (grey 1x3 brick)
- 1x (grey 1x3 brick)
- 2x (red 1x3 brick)
- 1x (red 1x3 brick)
- 1x (grey 1x3 brick)

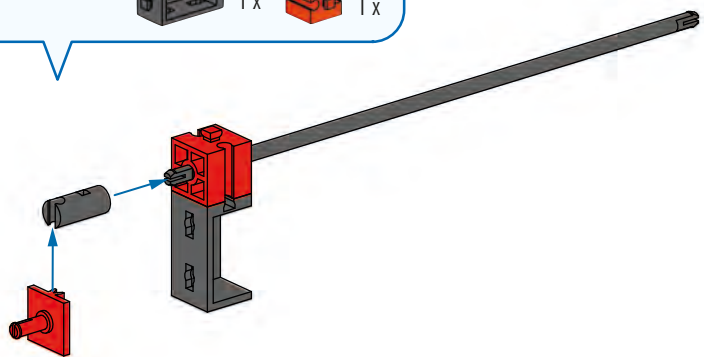
**12**

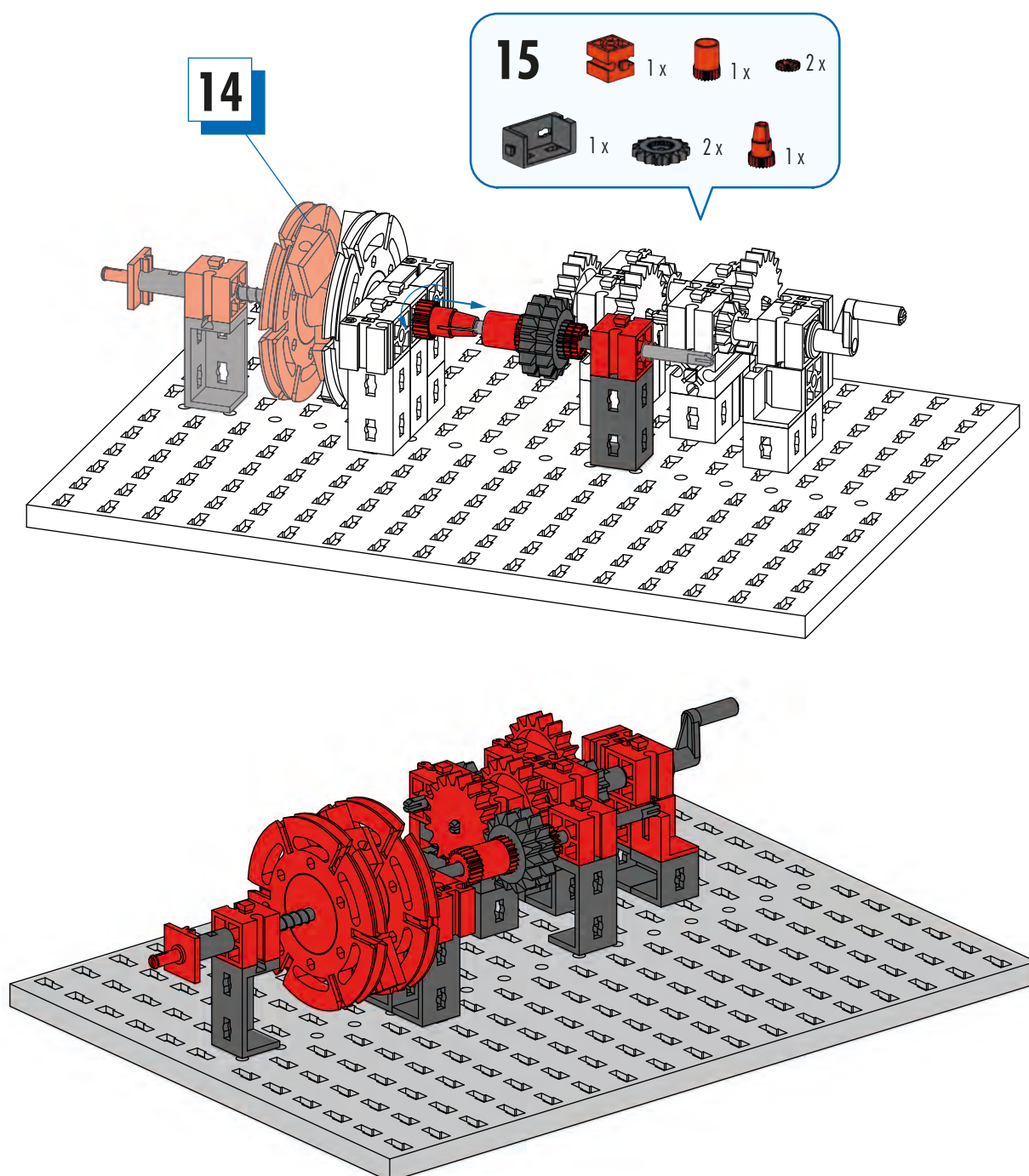
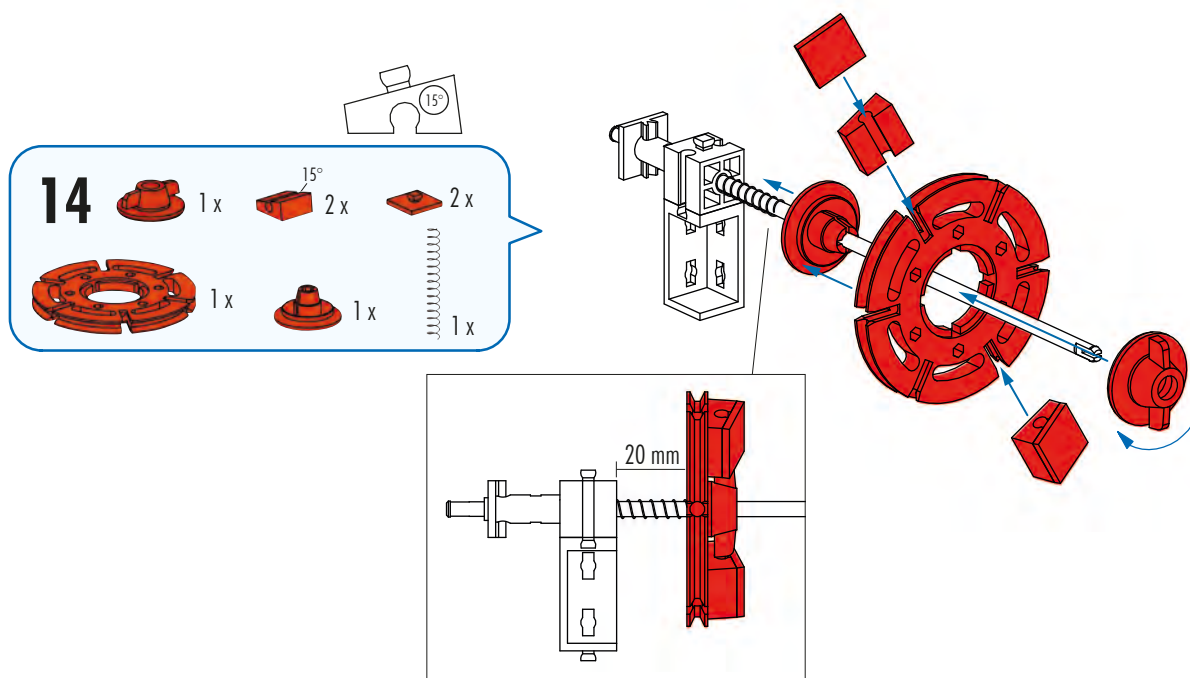
- 1x (red 1x3 brick)
- 4x (red 1x3 brick)
- 1x (red 1x3 brick)
- 1x (grey 1x3 brick)



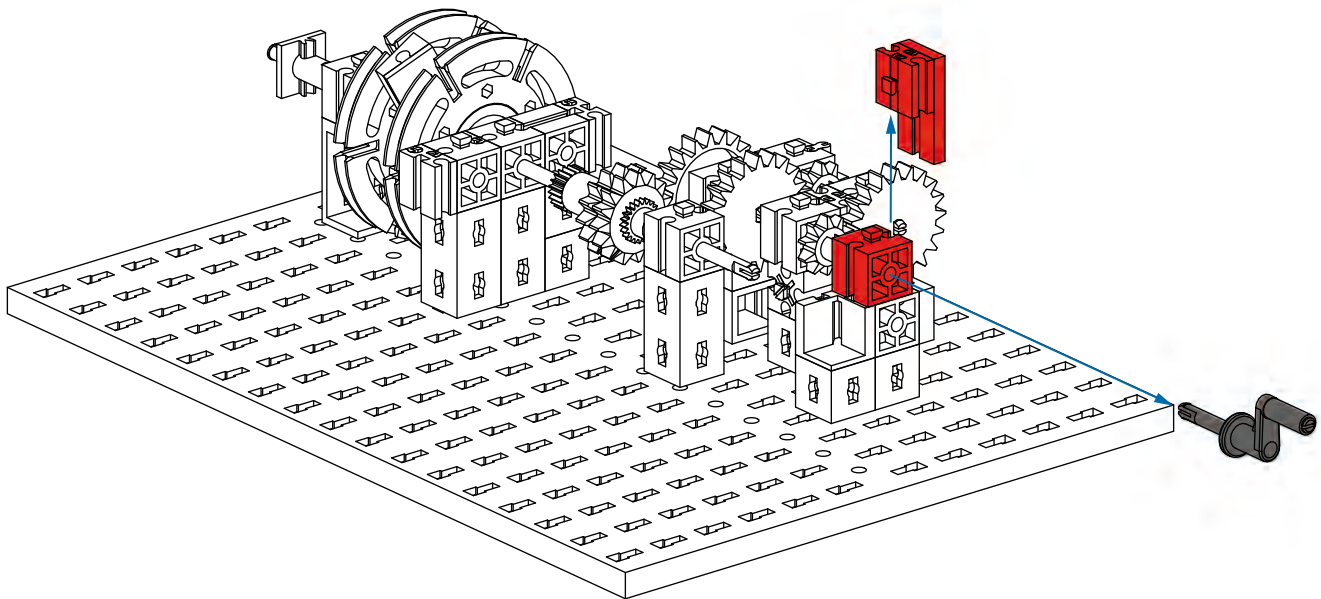
**13**

- 1x (grey 1x3 brick)
- 1x (red 1x3 brick)
- 1x (red 1x3 brick)
- 1x (grey 1x3 brick)
- 1x (red 1x3 brick)





**1 X**



**2**



1x



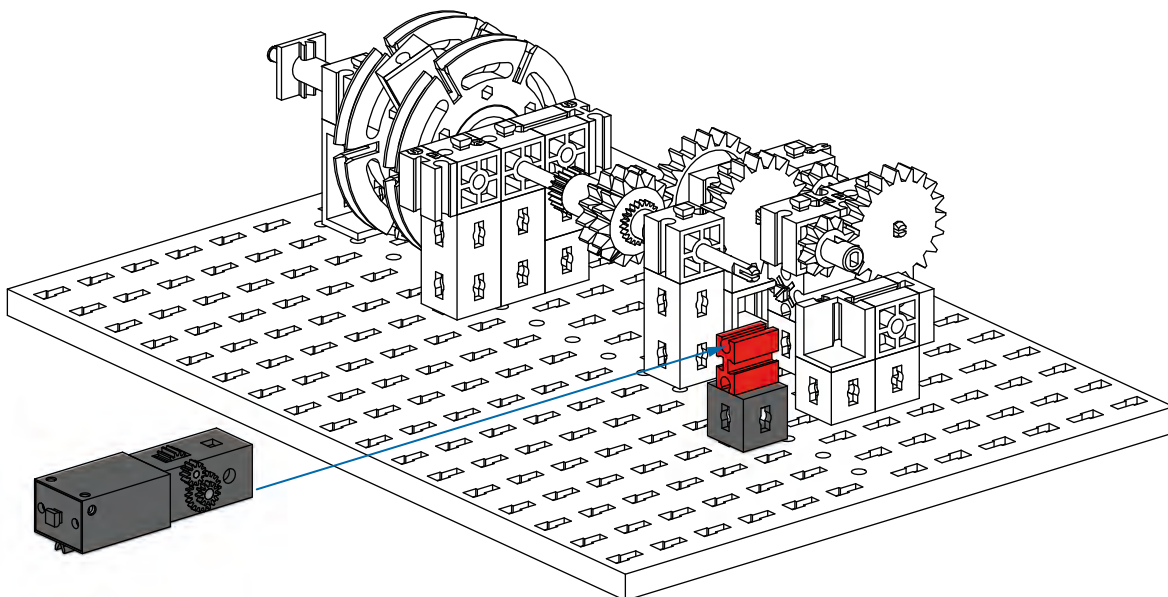
1x

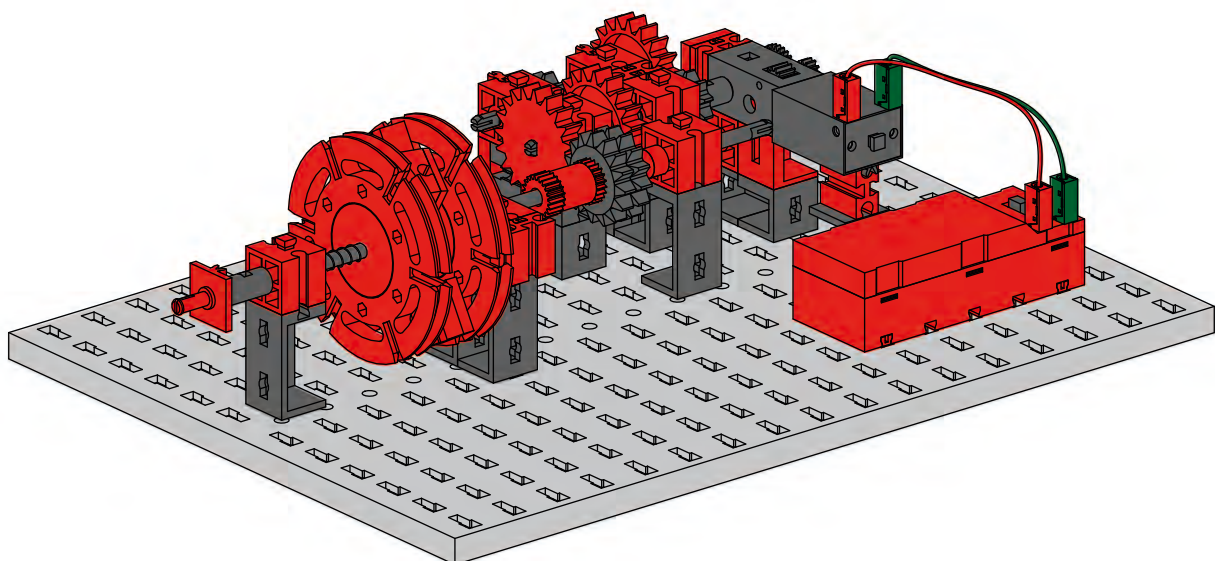
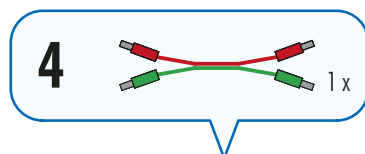
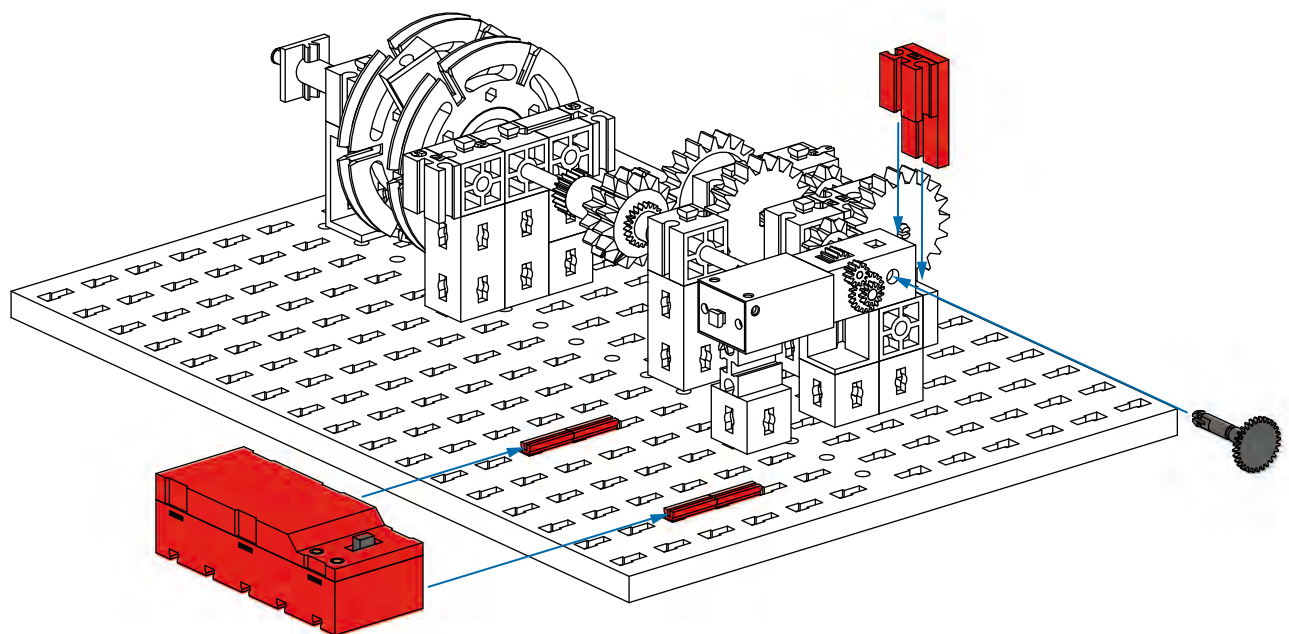
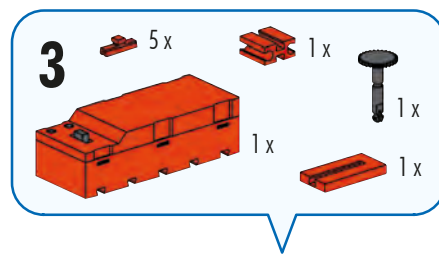


1x



1x

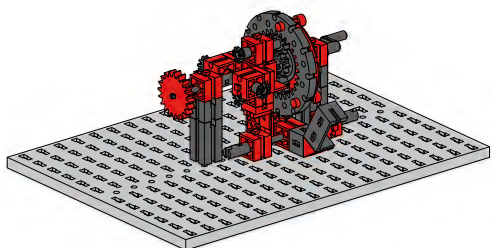




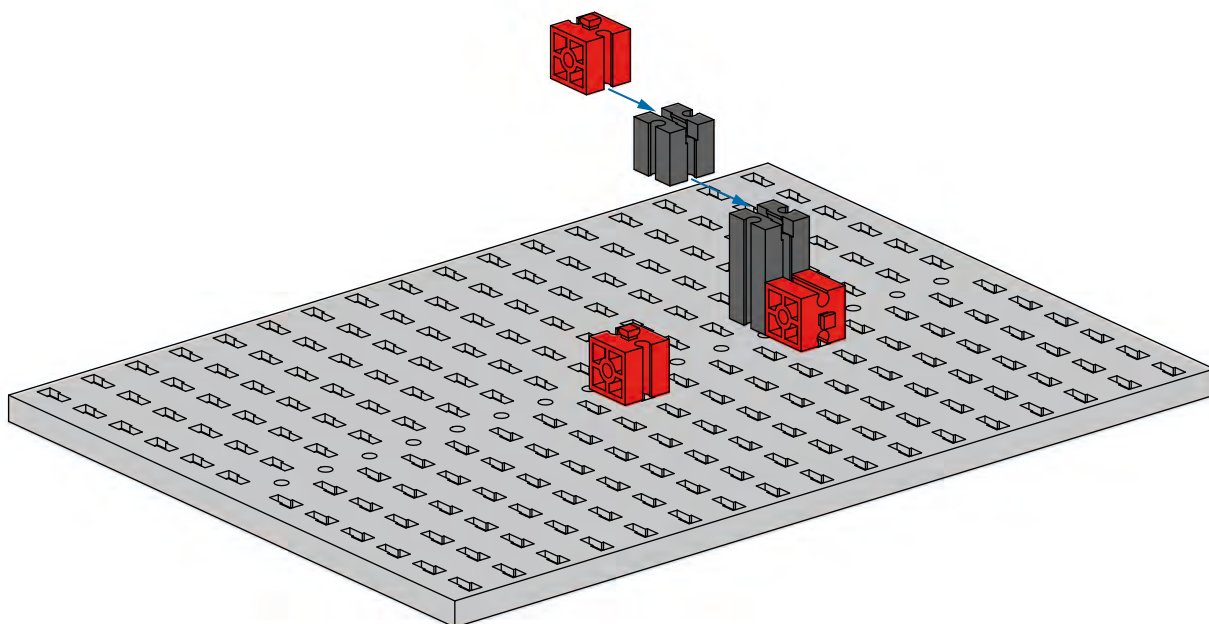
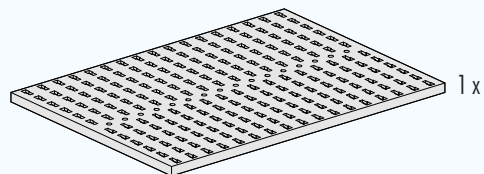
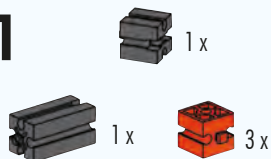
Planetengetriebe  
Planetary gear  
Réducteur planétaire

Planetair tandwiel  
Engranaje planetario  
Engrenagem planetária

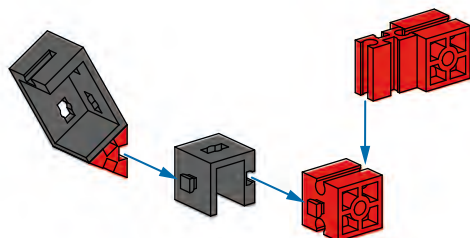
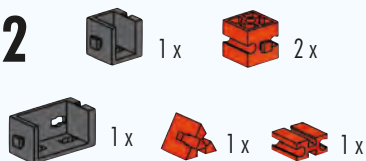
Ingranaggio planetario  
Планетарная передача  
行星齿轮

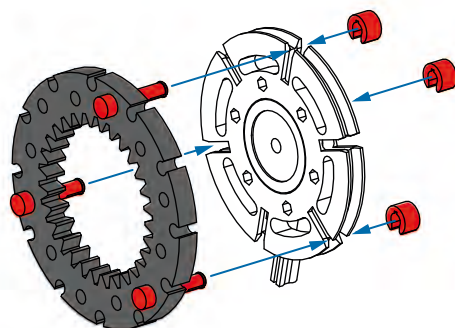
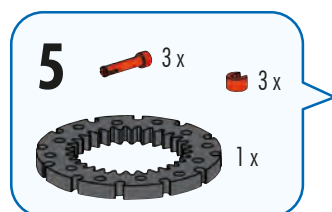
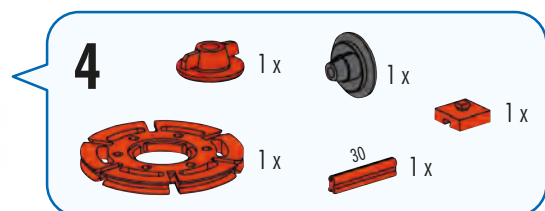
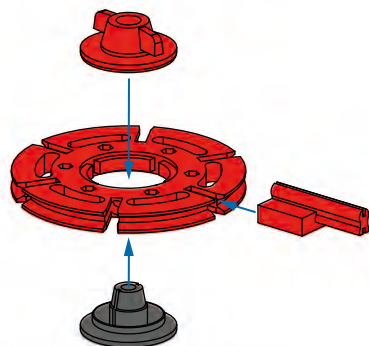
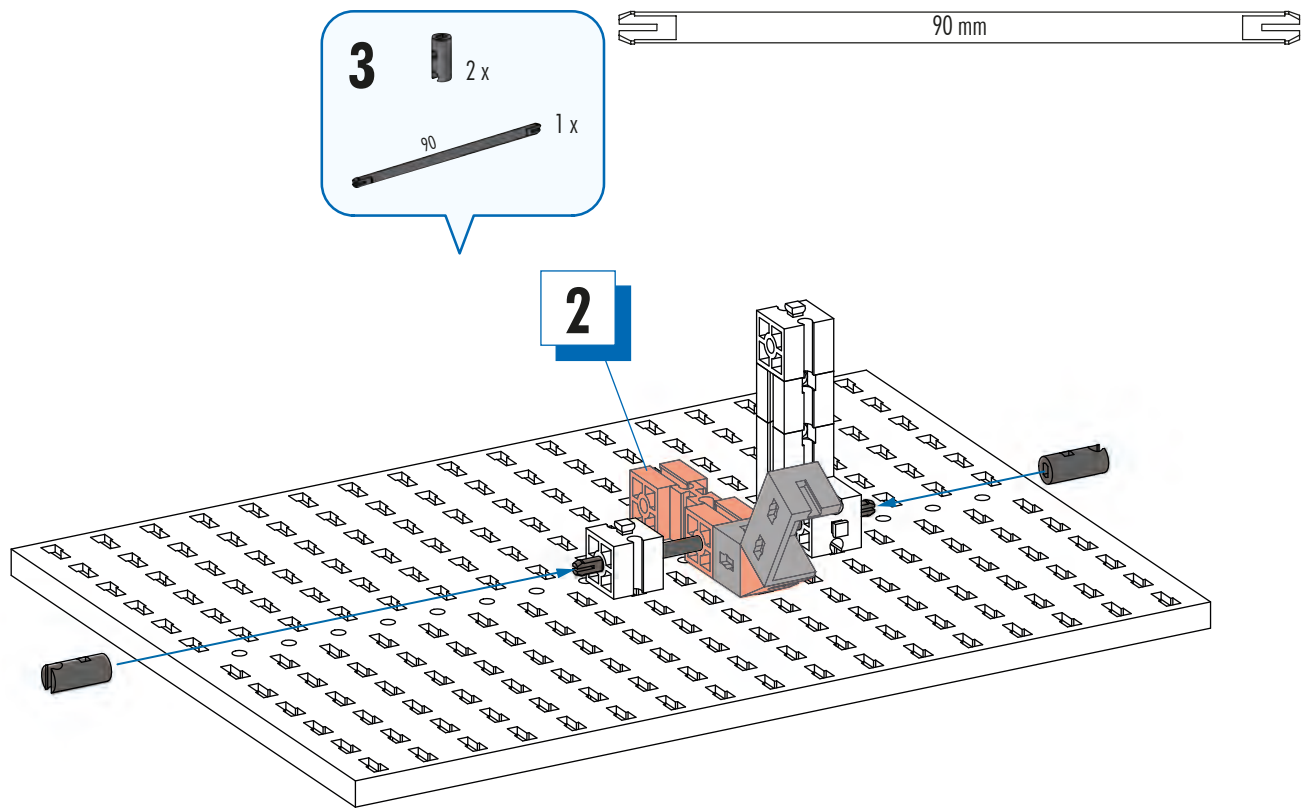


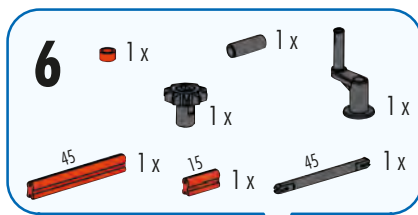
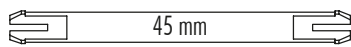
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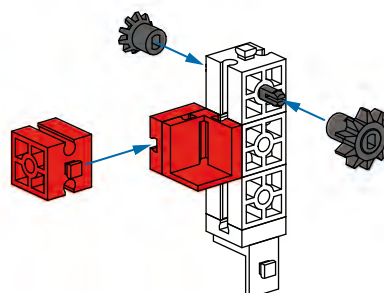
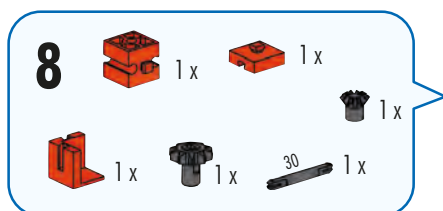
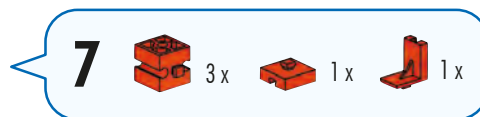
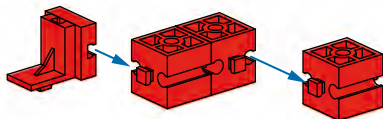
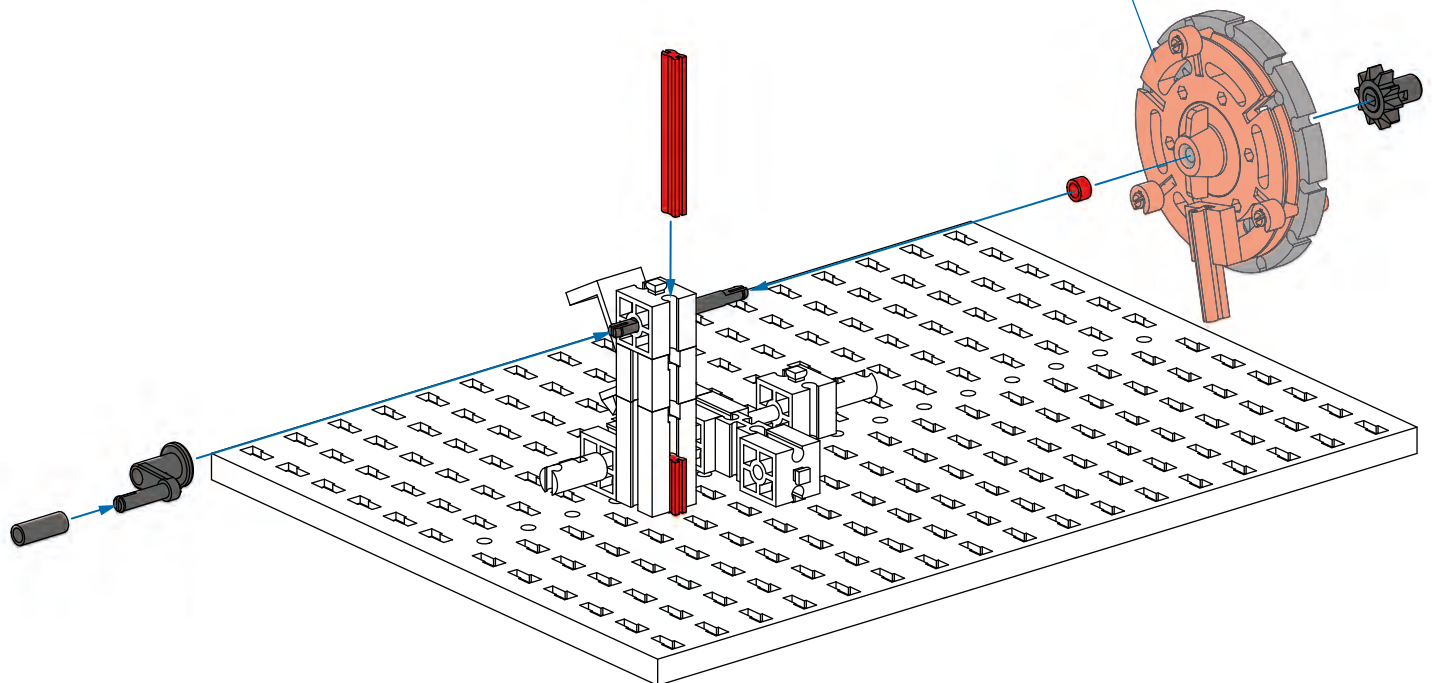
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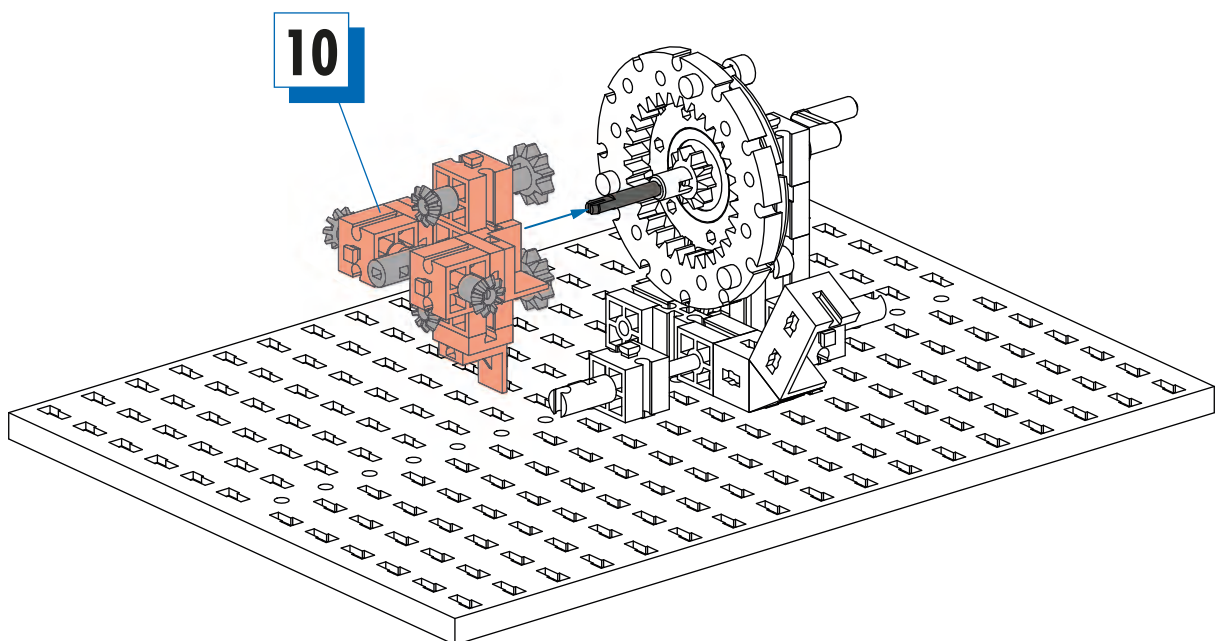
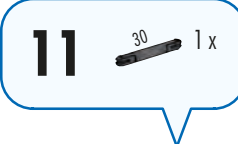
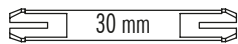
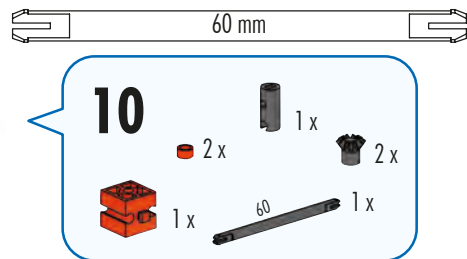
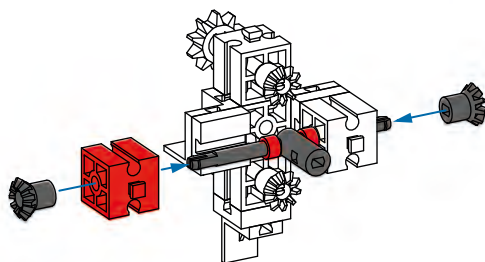
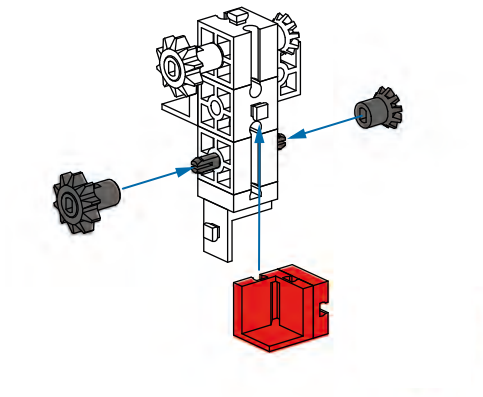
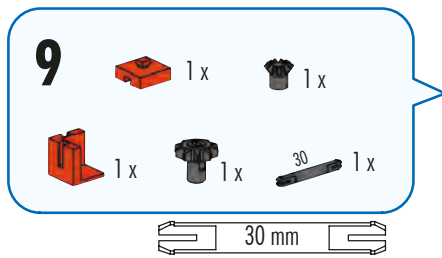


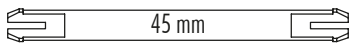




**5**







**12**

1x

1x

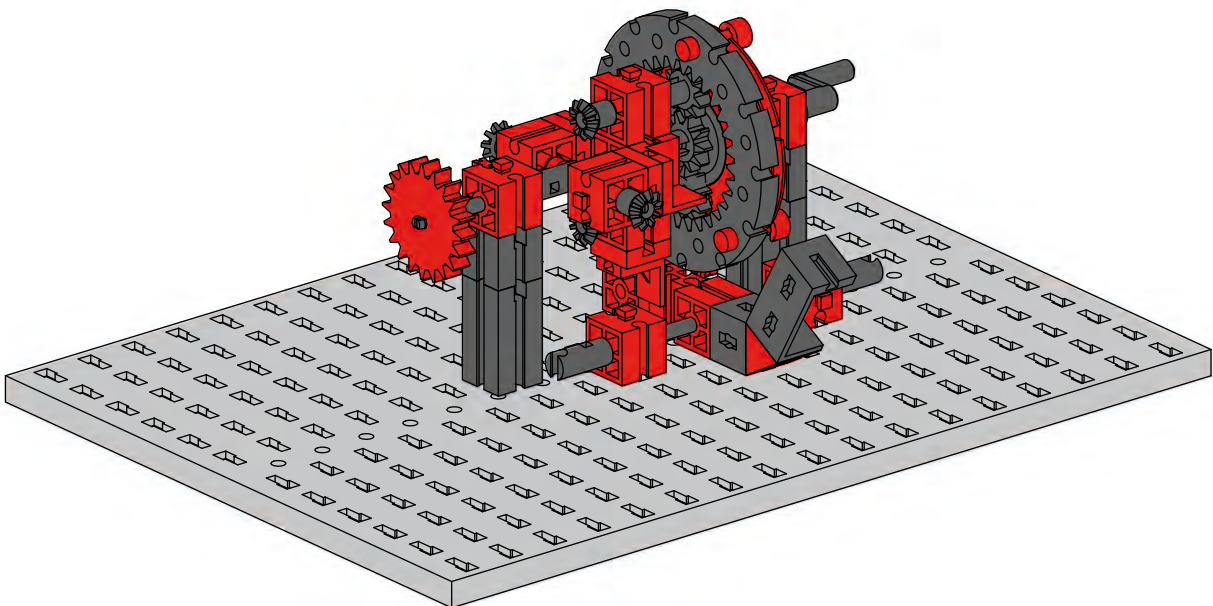
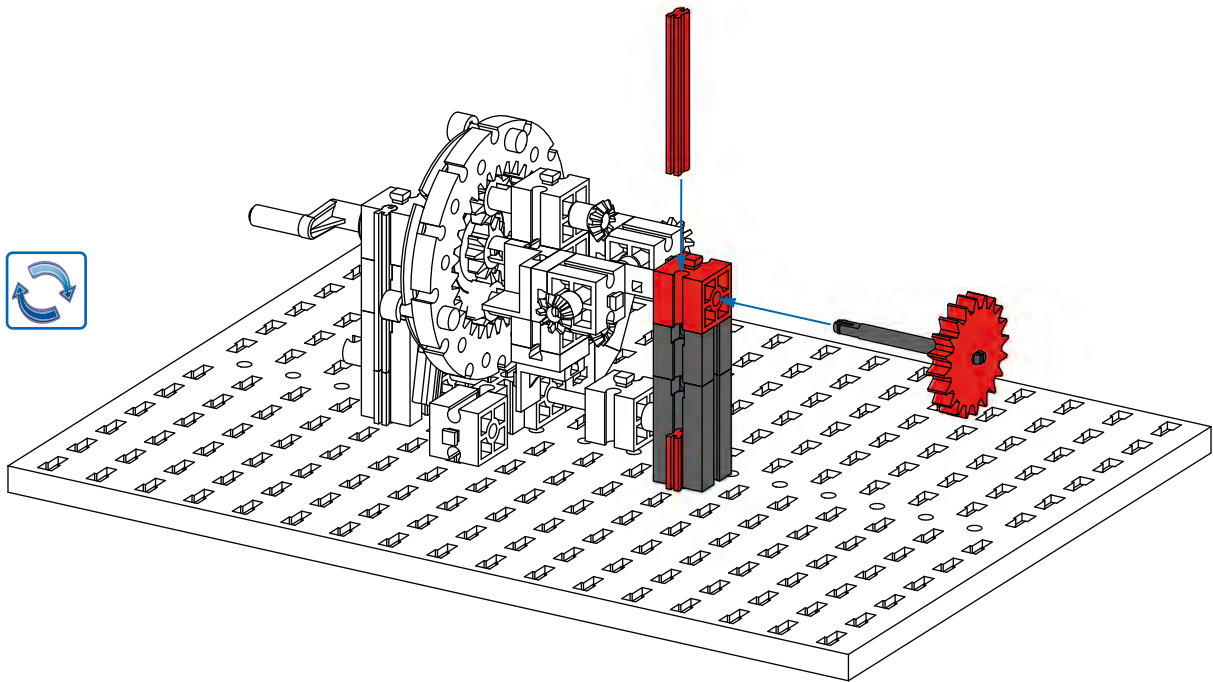
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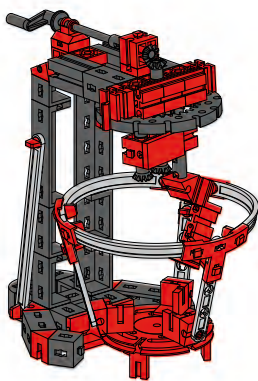
1x

1x

1x

1x

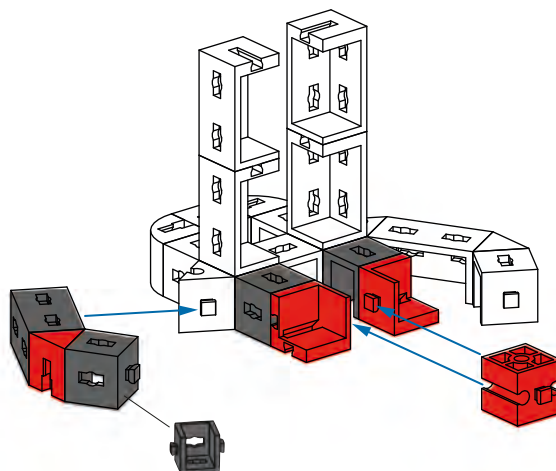
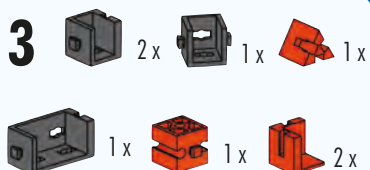
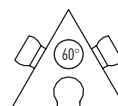
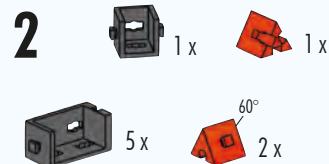
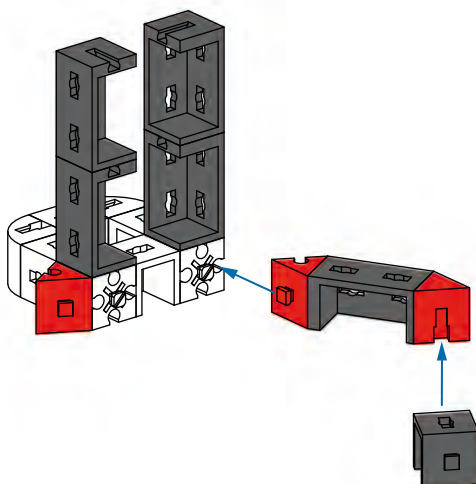
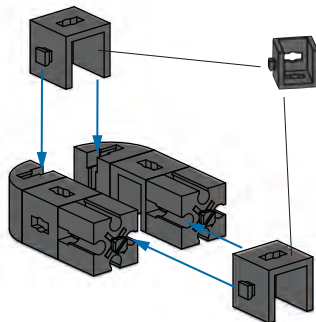
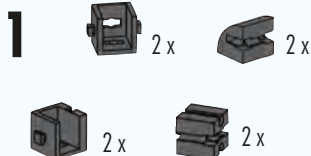


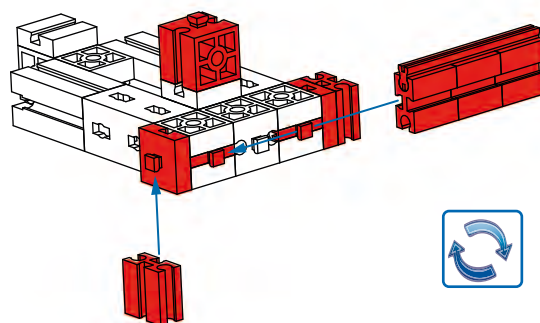
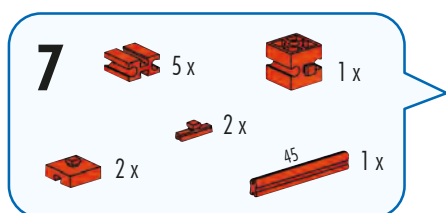
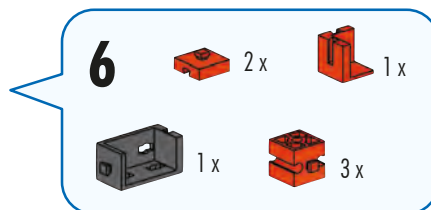
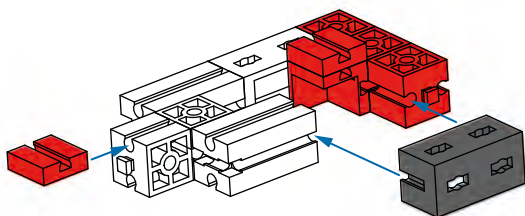
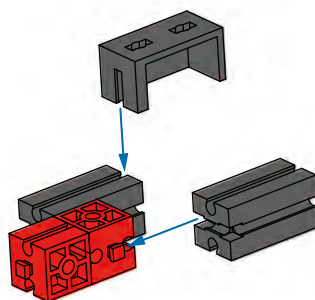
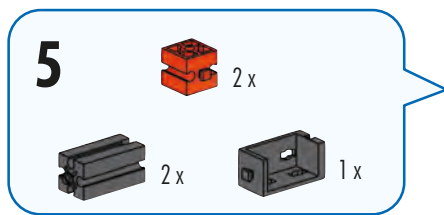
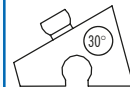
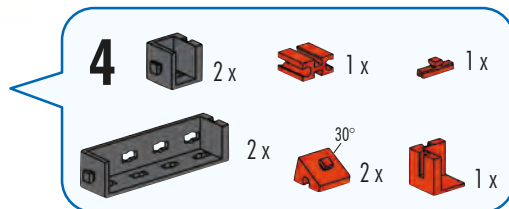
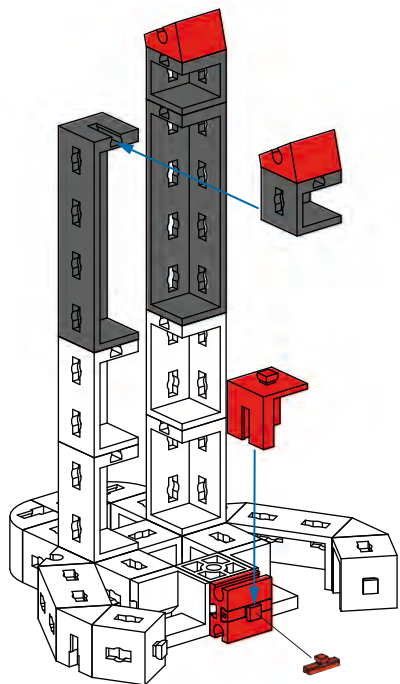


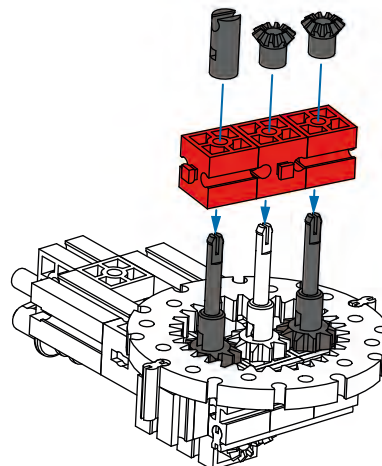
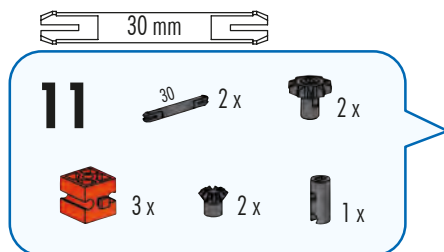
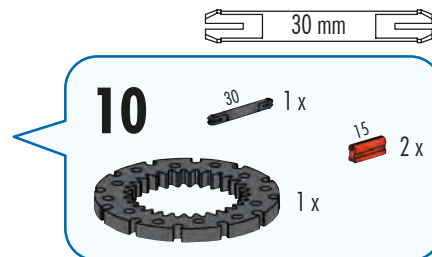
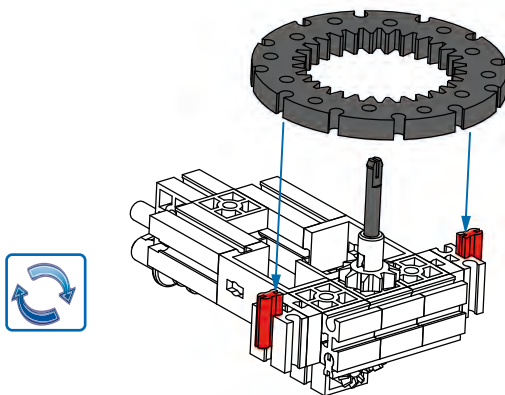
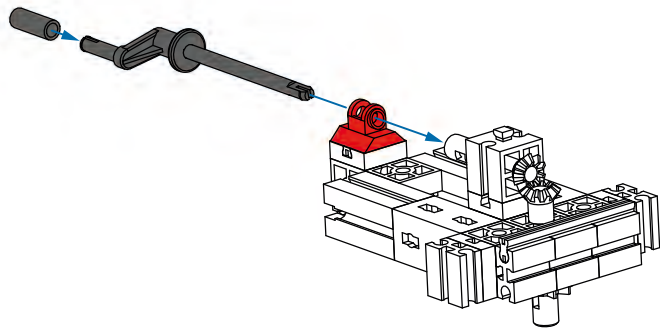
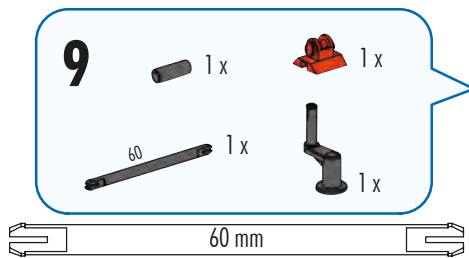
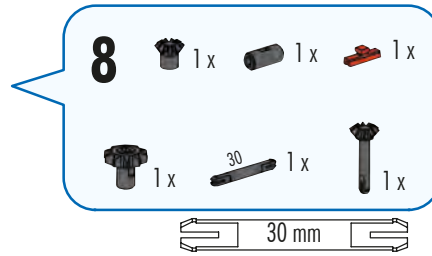
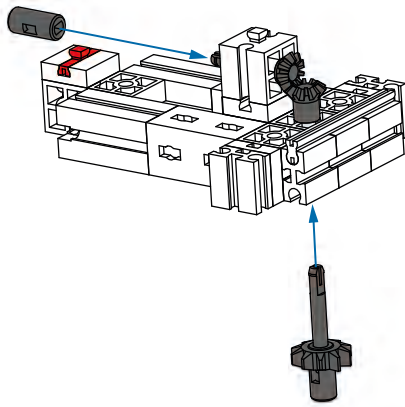
Küchenmaschine  
Food Processor  
Robot ménager

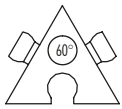
Keukenmachine  
Aparato de cocina  
Batedeira de cozinha

Robot da cucina  
Кухонный комбайн  
电动厨具



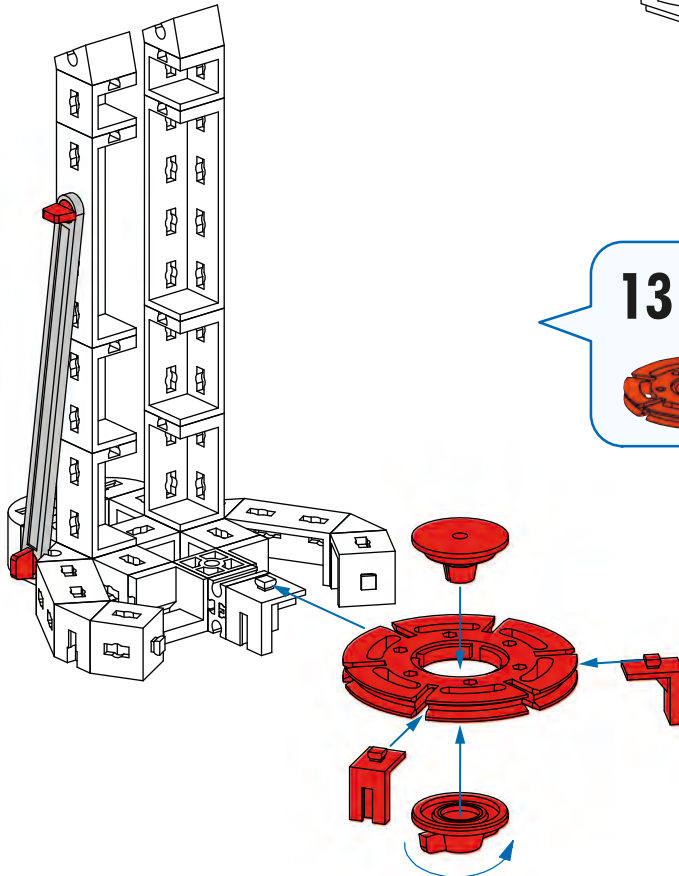
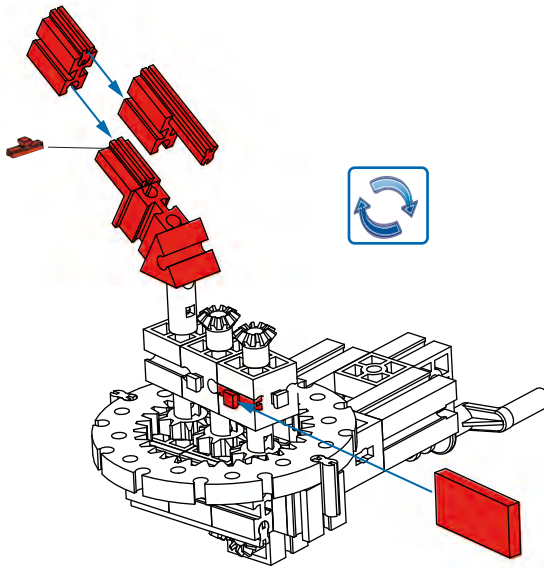






12

- 30 1x
- 15 1x
- 2x
- 1x
- 3x
- 60° 1x
- 1x

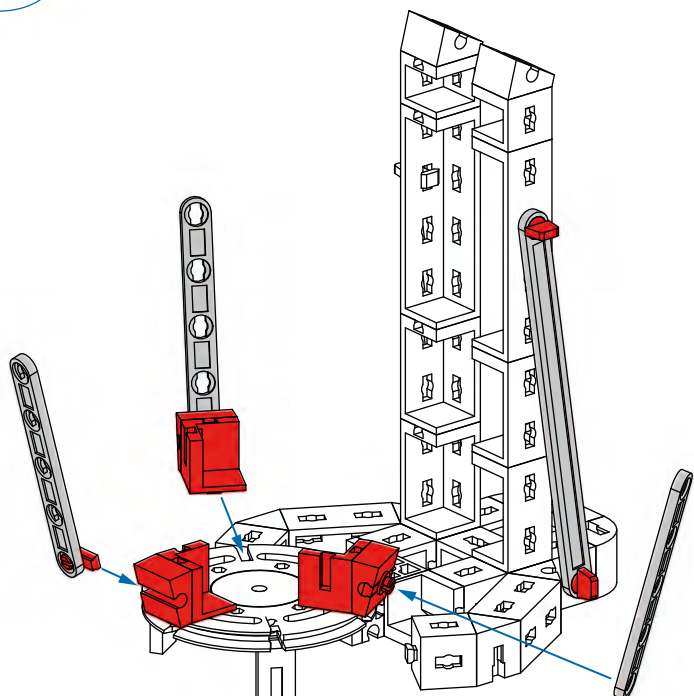


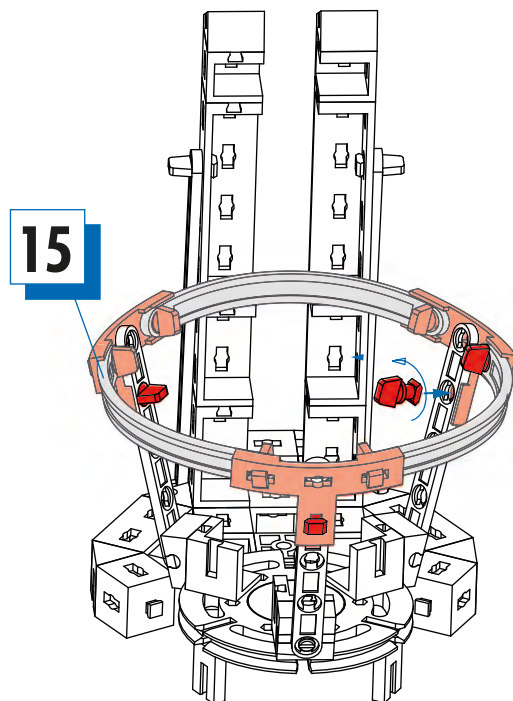
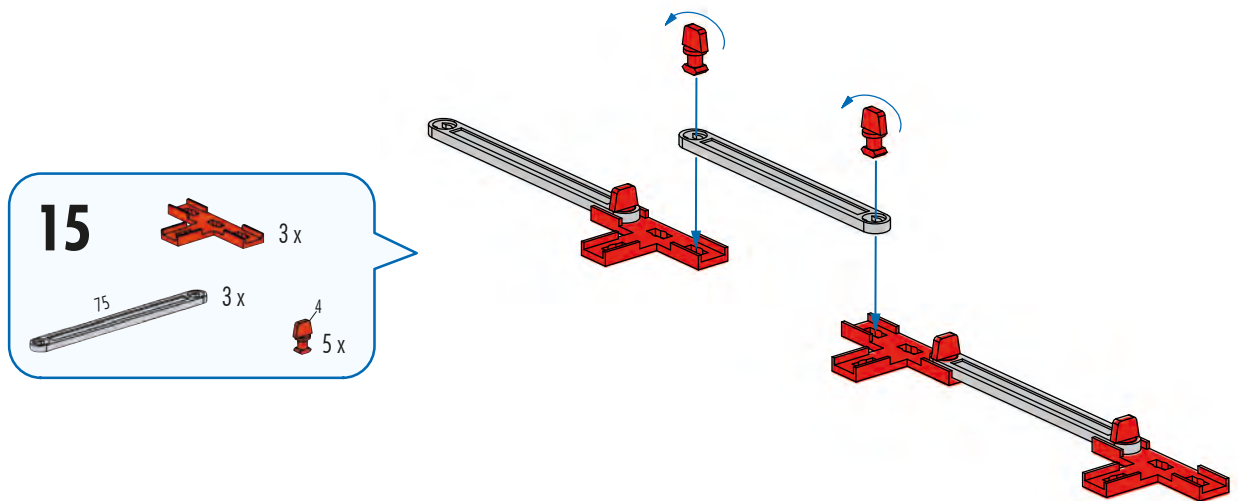
13

- 1x
- 1x
- 2x
- 2x
- 1x
- 106

14

- 3x
- 15° 3x
- 3x
- 2x
- 4
- 60 3x
- 106 1x





12

45 mm

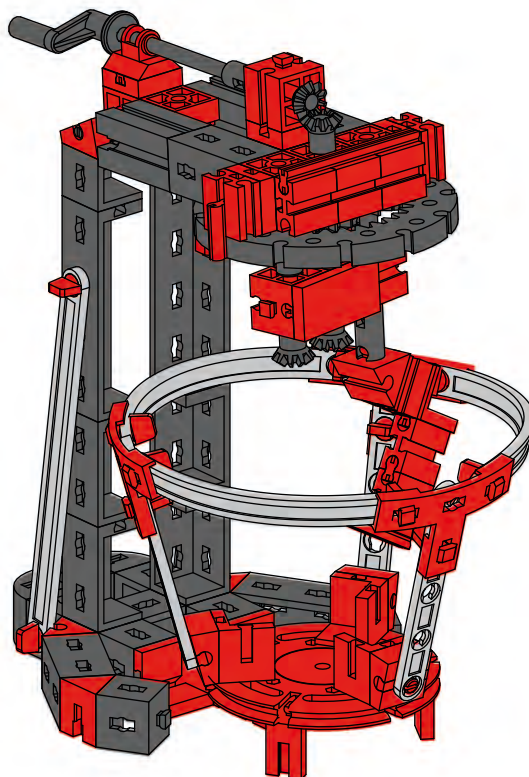
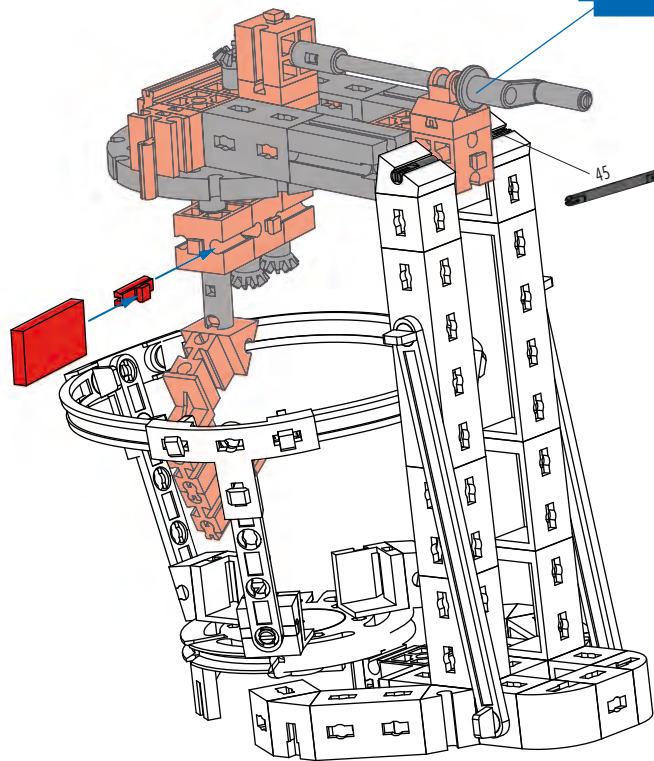
17

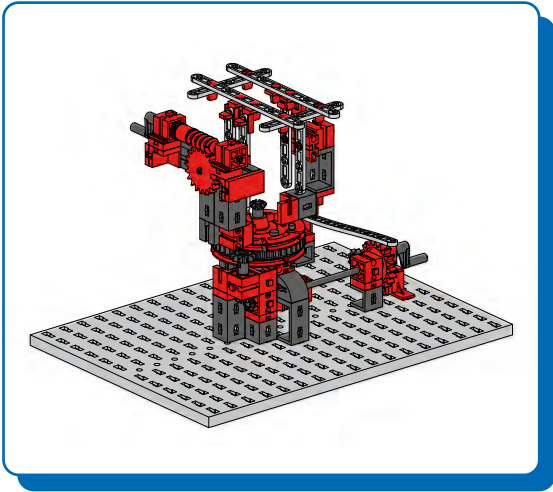
45

1 x

1 x

1 x

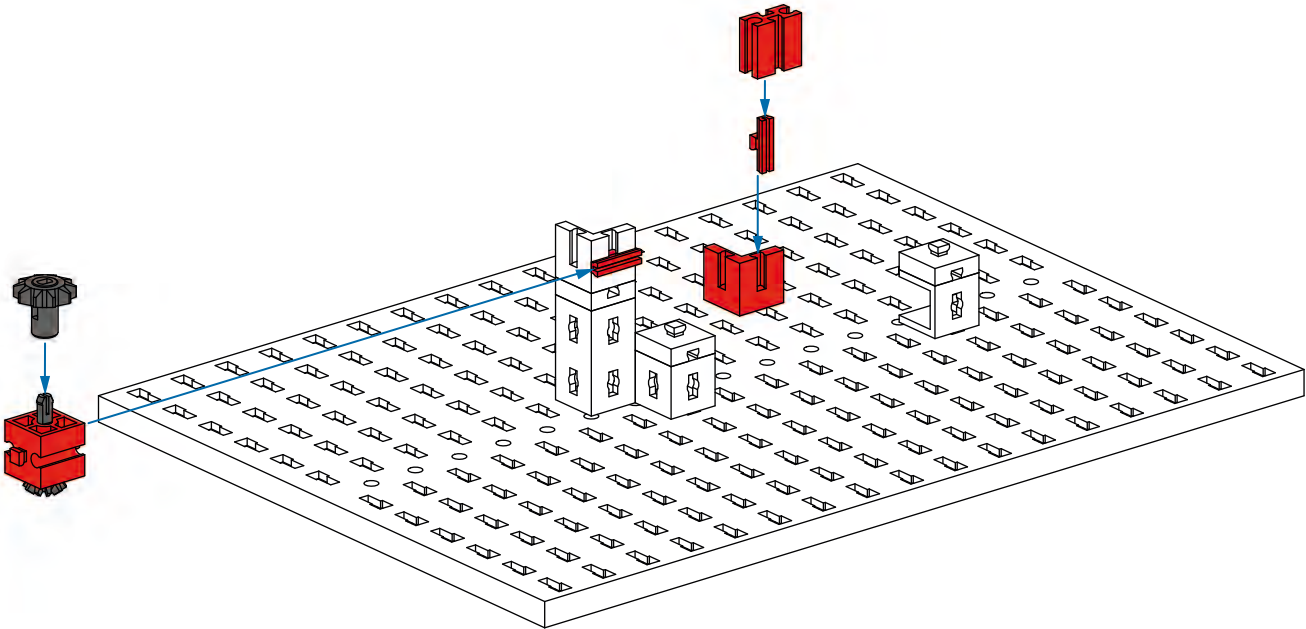
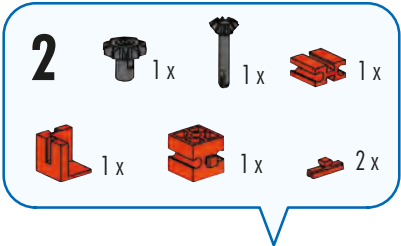
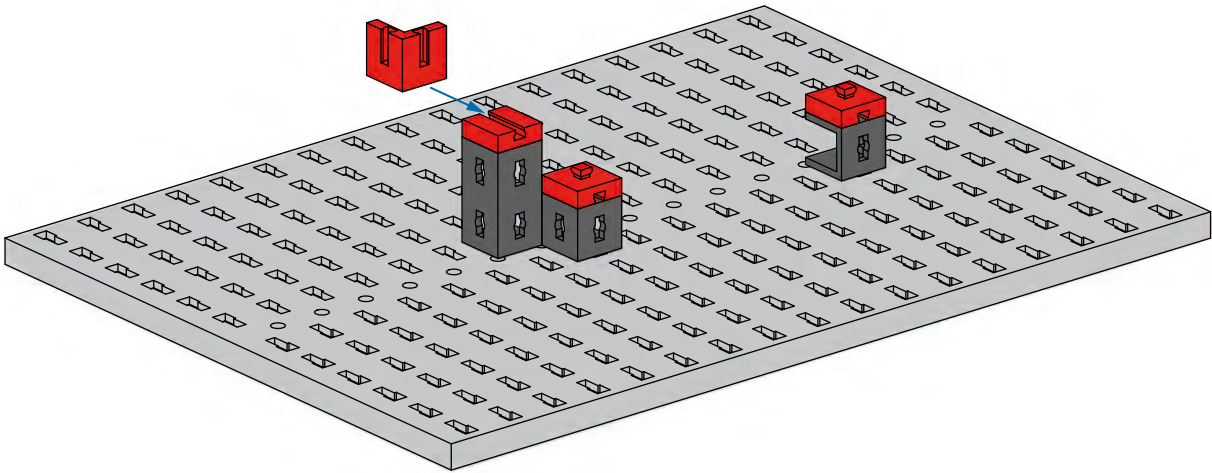
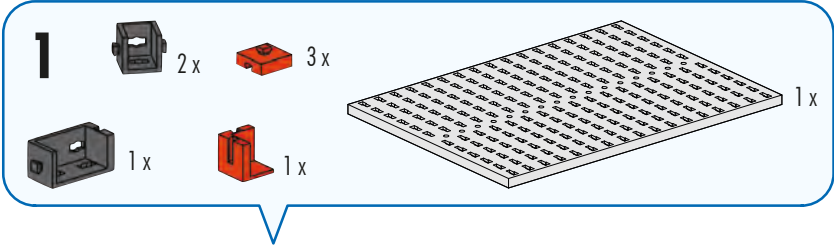




**Solartracker**  
**Solar Tracker**  
**Traceur solaire**

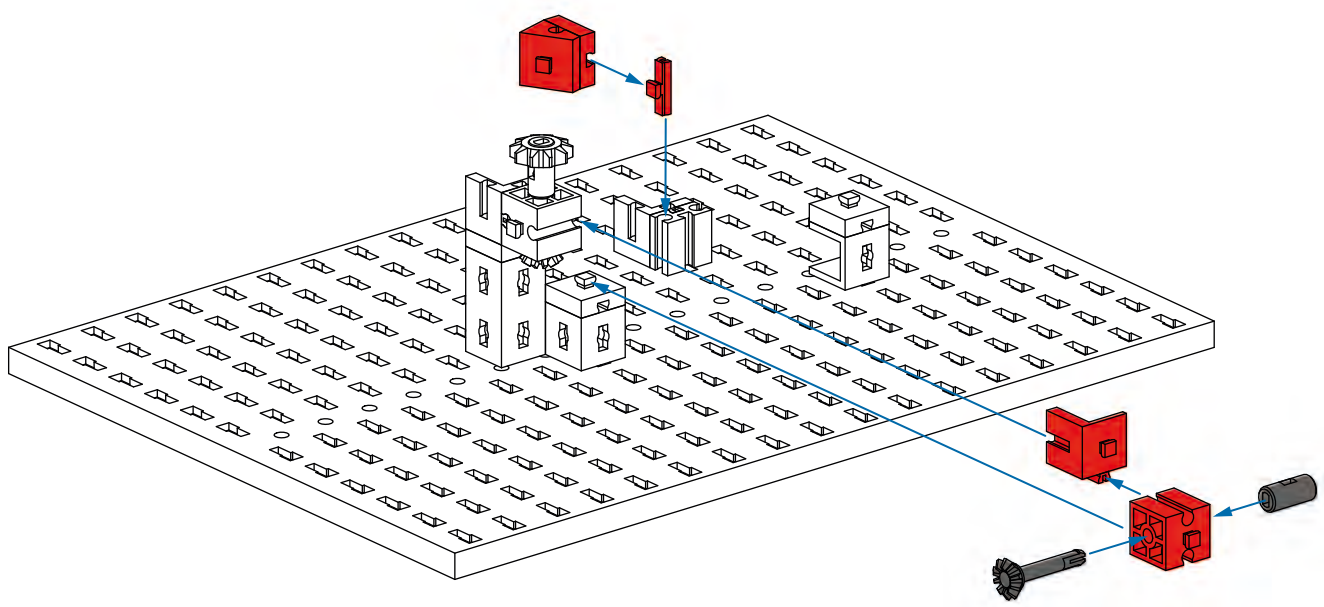
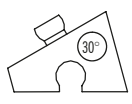
**Zonne tracker**  
**Seguidor solar**  
**Rastreador solar**

**Inseguitore solare**  
**Солнечный трекер**  
**太阳能跟踪器**



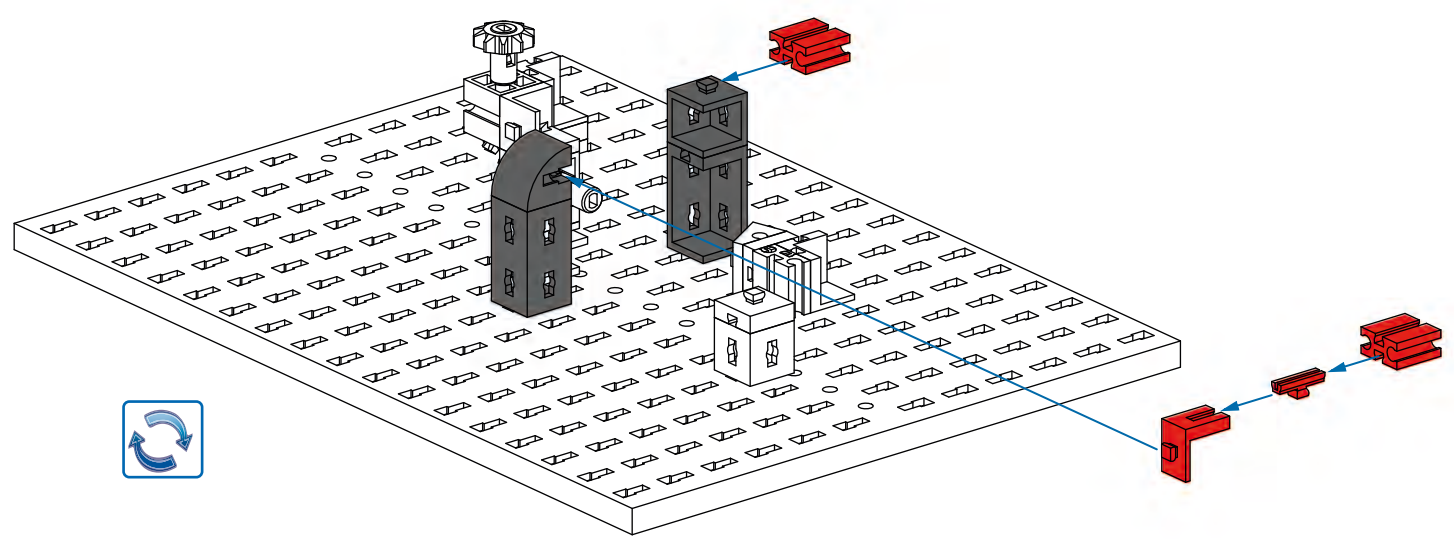
**3**

- 1x Red 1x2 Technic Brick
- 1x Black Technic Pin
- 1x Black Technic Bush
- 1x Red 1x2 Technic Brick with Pin
- 1x Red 1x2 Technic Brick with Pin
- 1x Red 1x2 Technic Brick with Pin (30°)
- 2x Red 1x2 Technic Brick with Pin



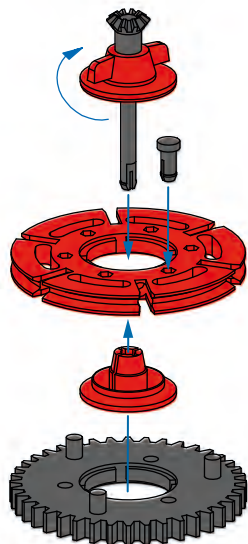
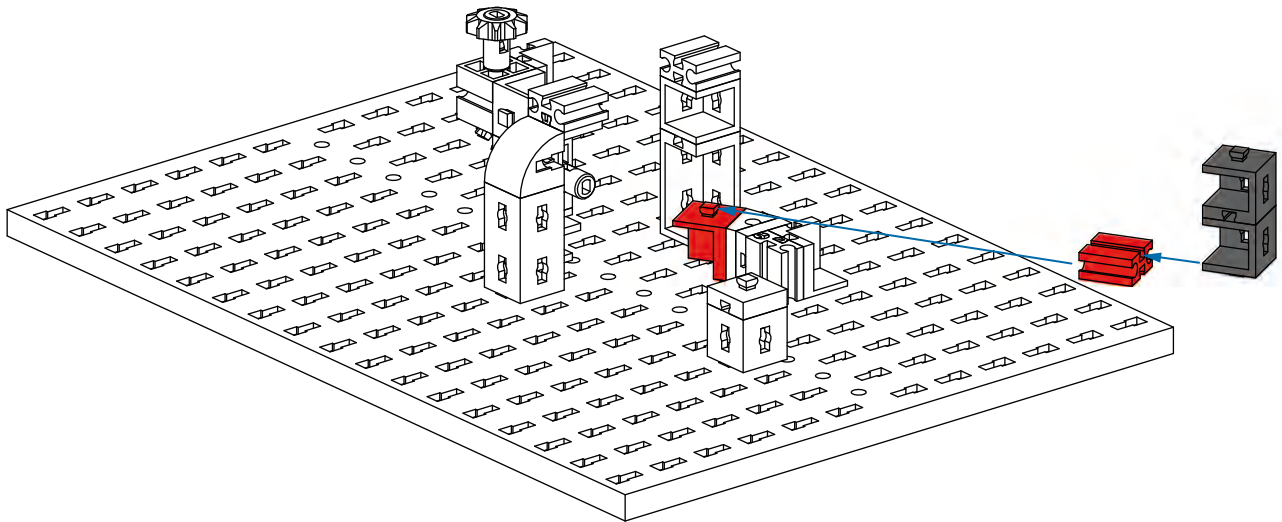
**4**

- 1x Black 1x2 Technic Brick
- 1x Red 1x2 Technic Brick
- 1x Red 1x2 Technic Brick
- 2x Black 1x2 Technic Brick
- 1x Black 1x2 Technic Brick
- 2x Red 1x2 Technic Brick



**5**

 1x
  1x  
 1x
  1x



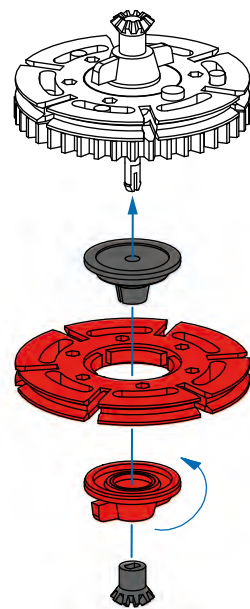
**6**

 1x
  1x
  1x  
 1x
  1x
  1x
  1x

45 mm

**7**

 1x
  1x  
 1x
  1x





10



2 x



3 x



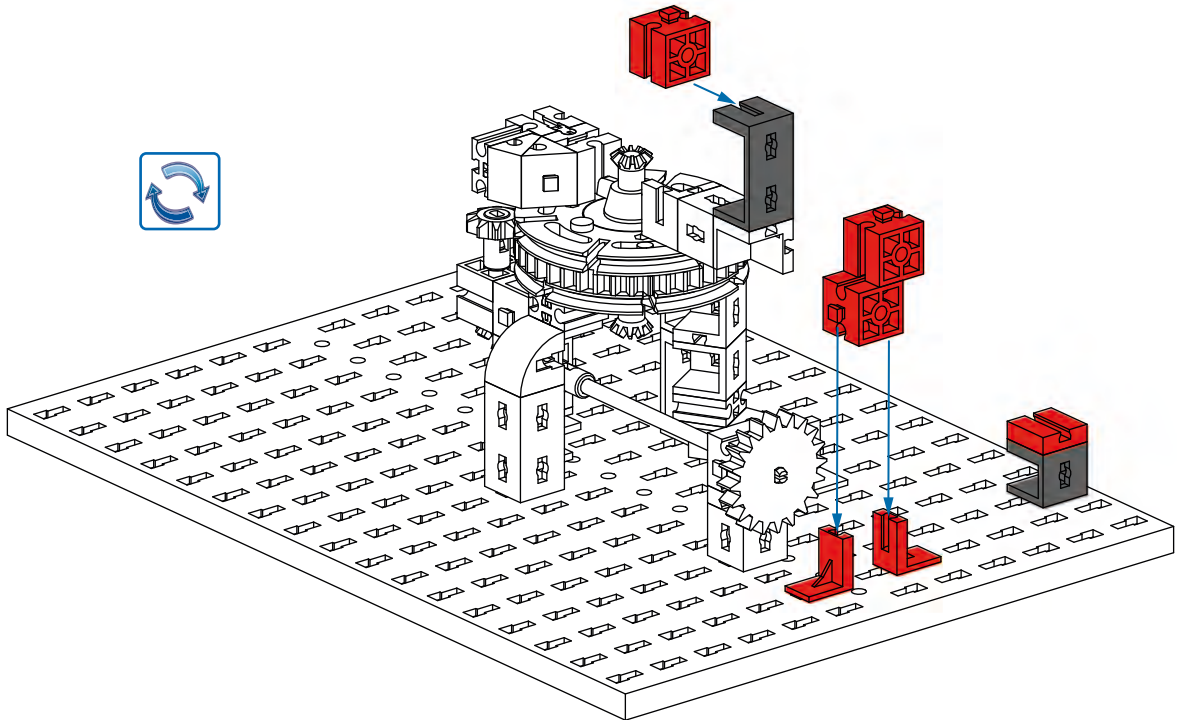
1 x



1 x



1 x



11



1 x



1 x



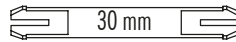
1 x



2 x



1 x



1 x



1 x



1 x



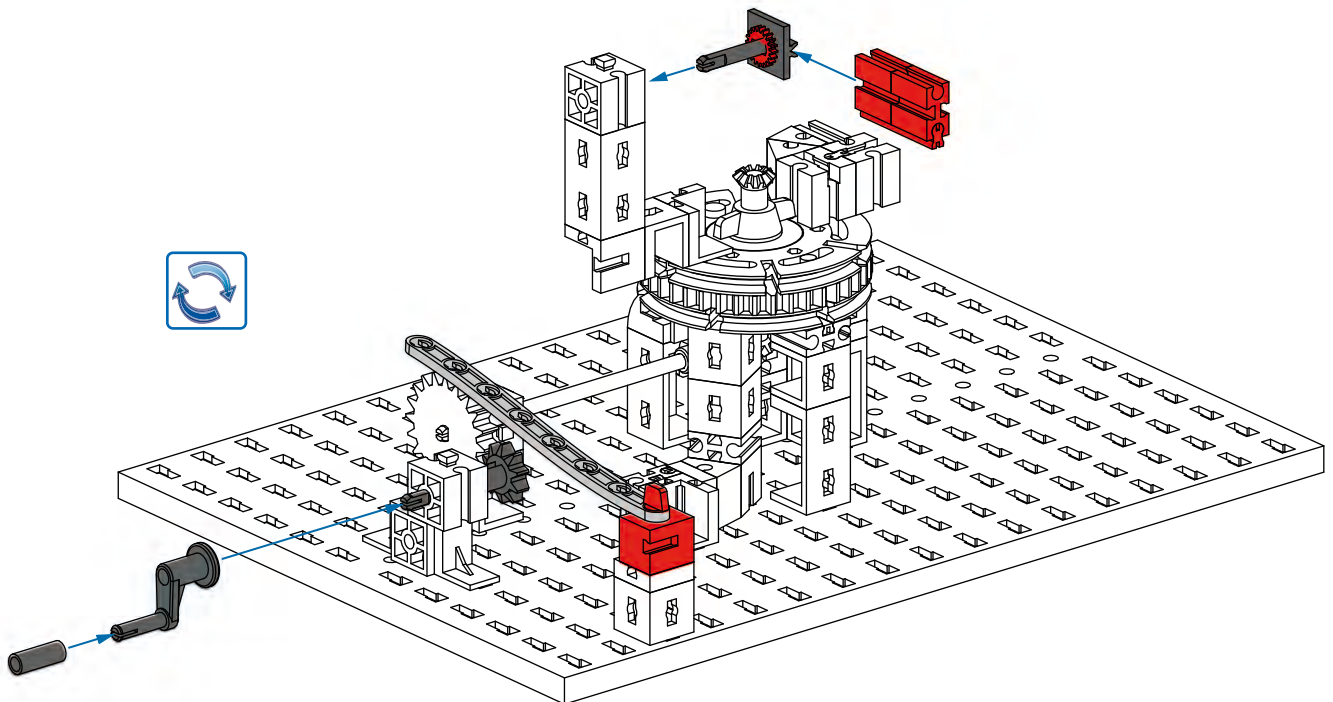
1 x



1 x



1 x







17

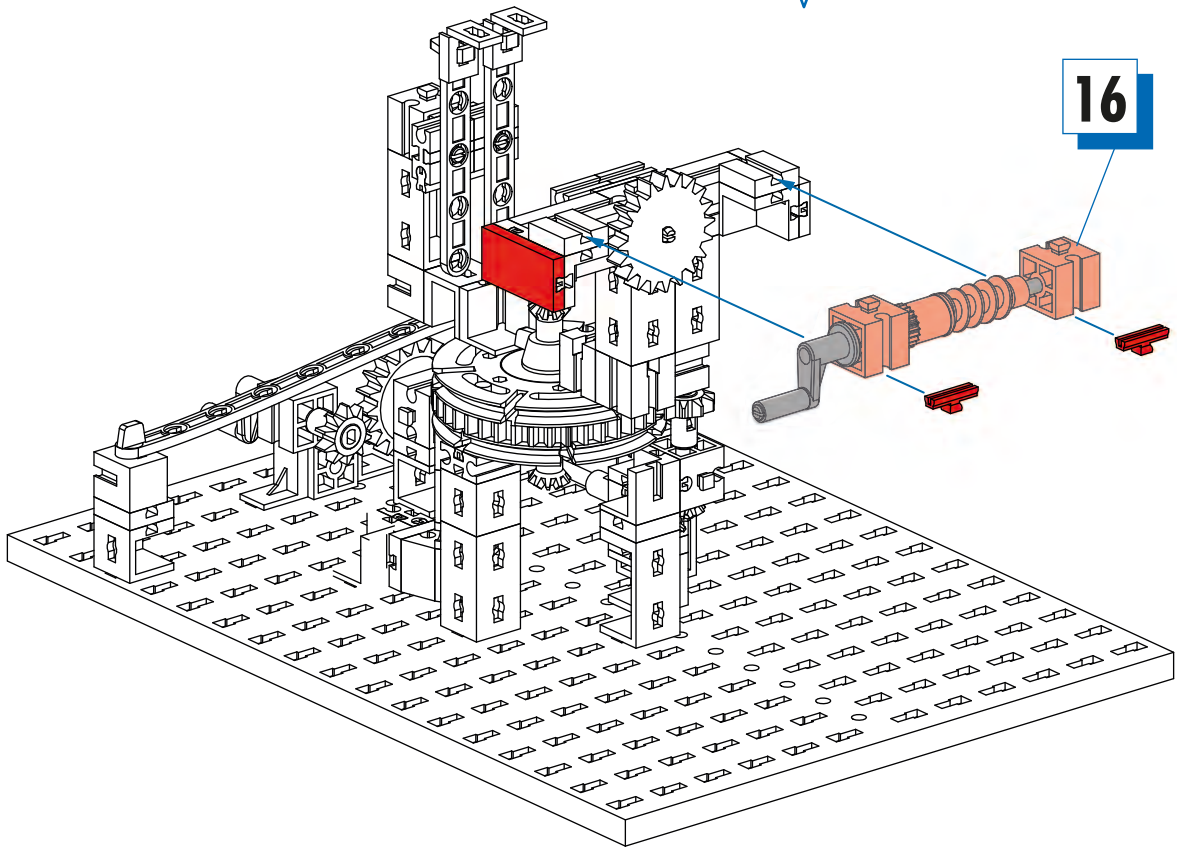


1x



2x

16



18



2x



2x

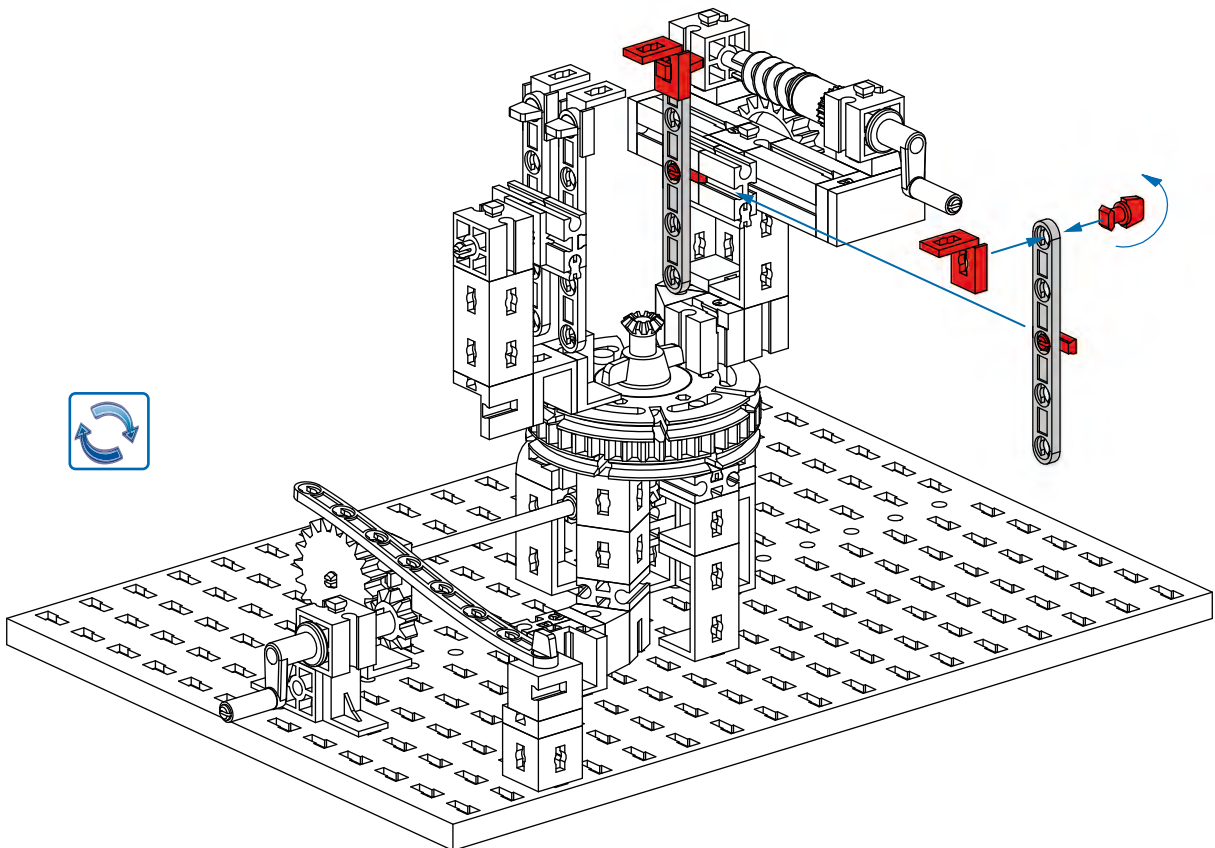
4



2x



2x

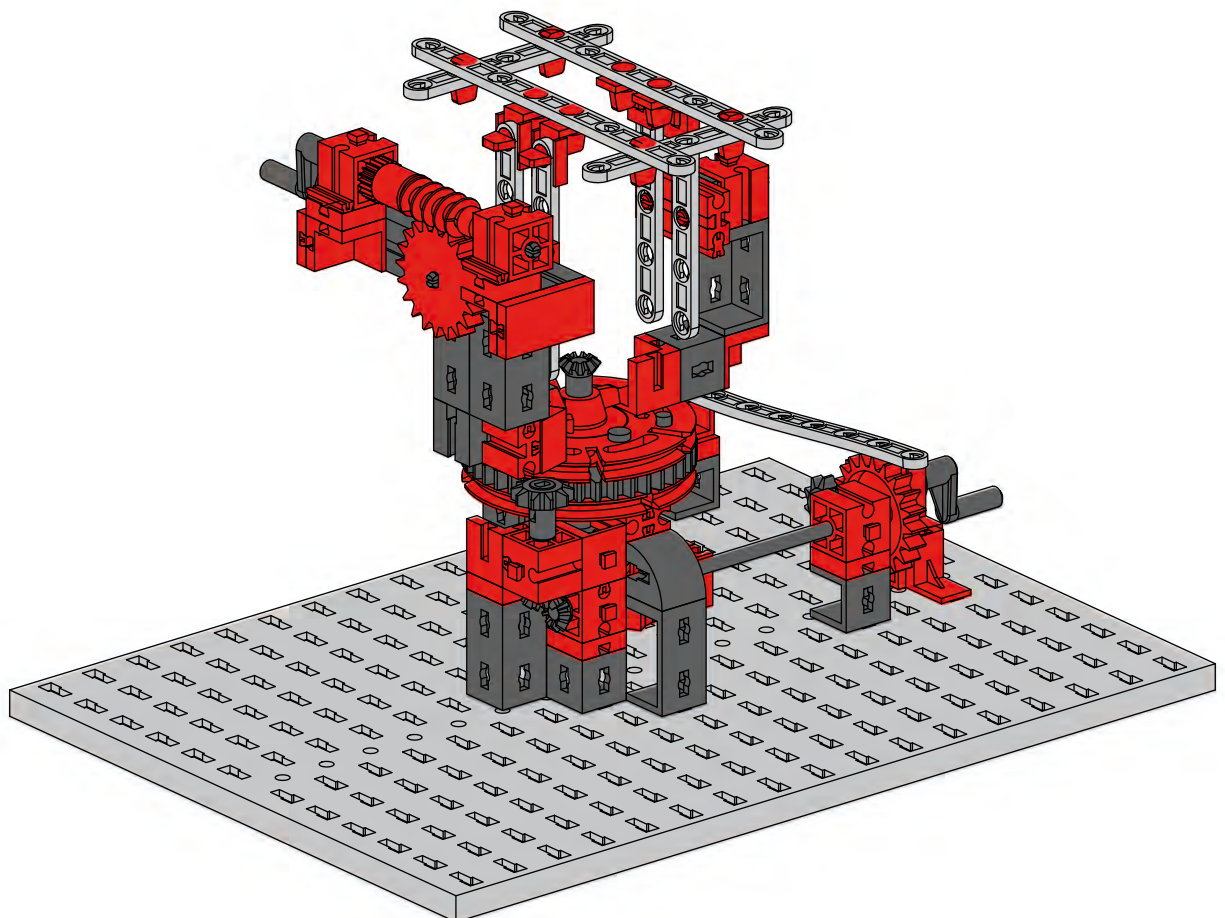
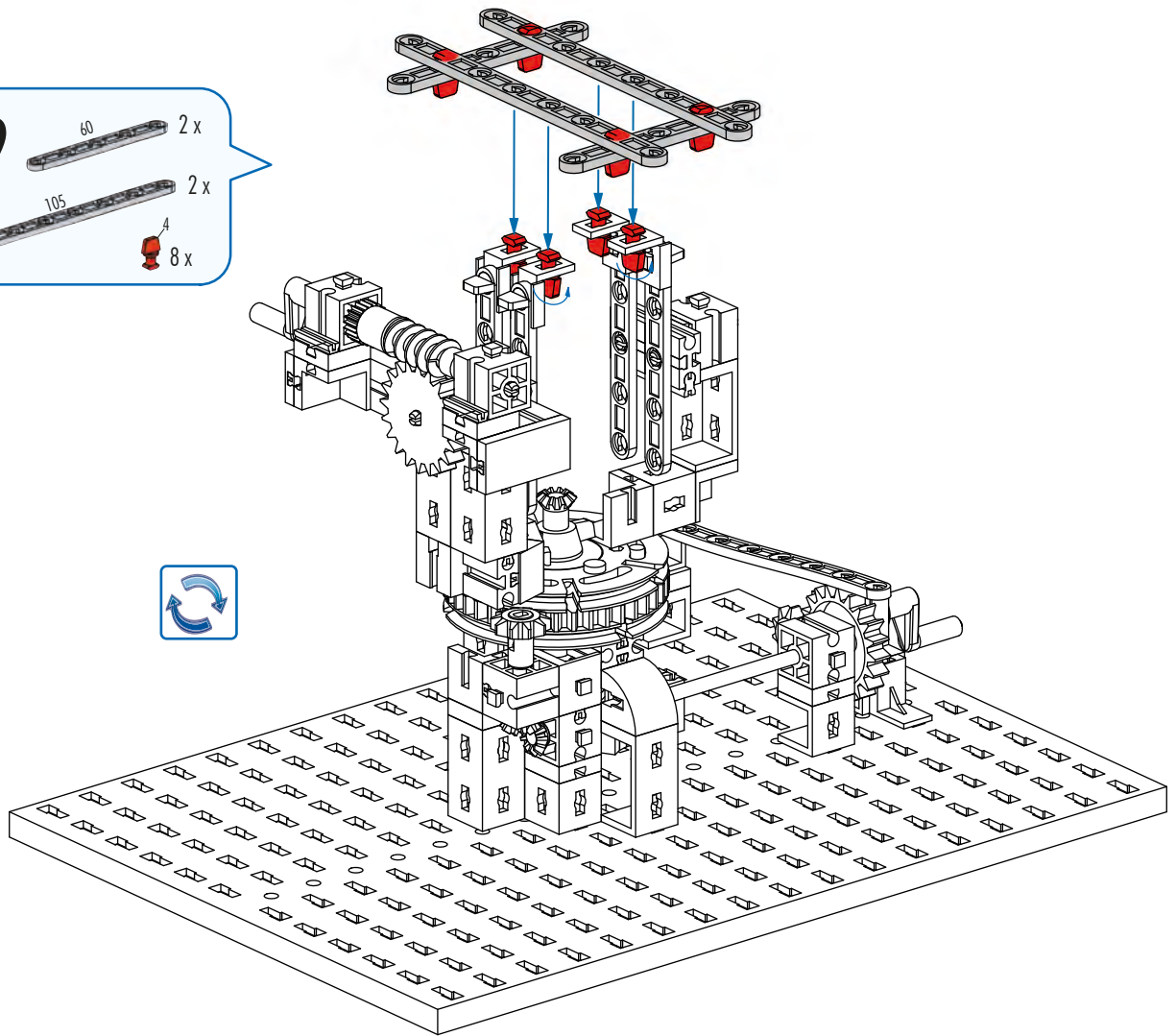


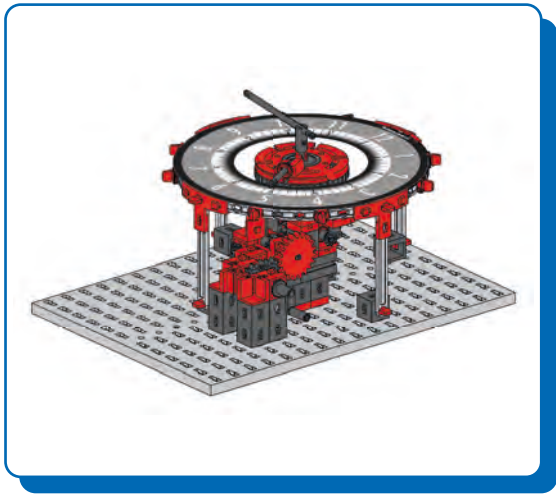
**19**

60 2 x

105 2 x

A 8 x

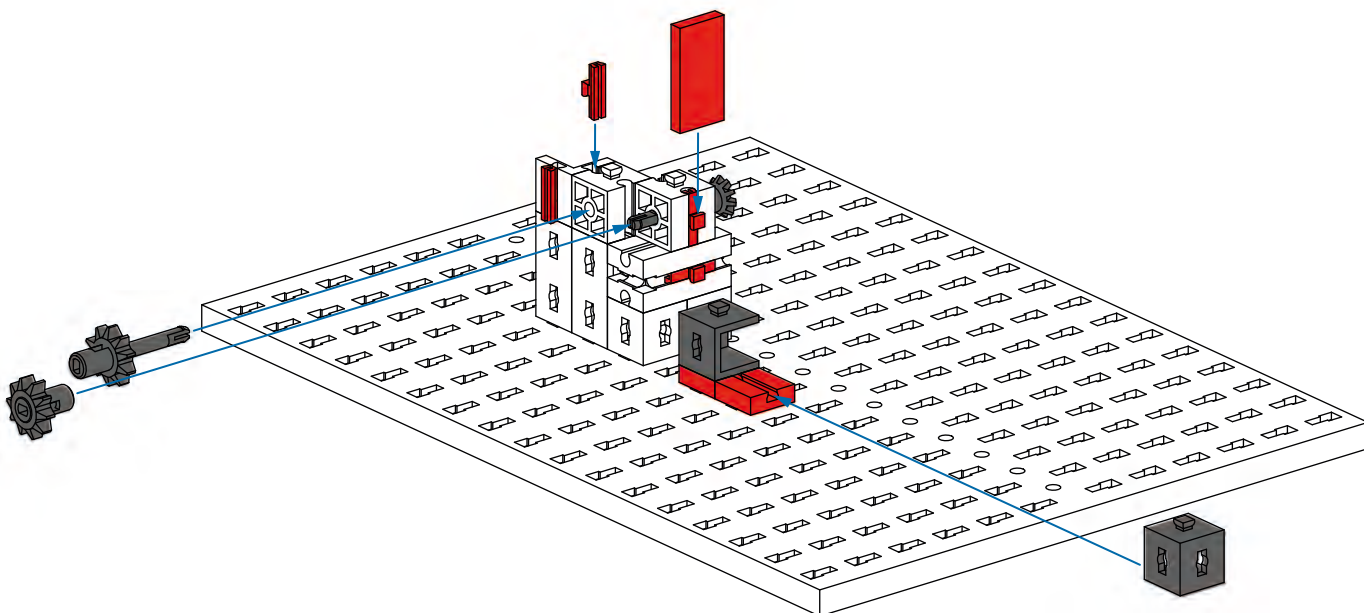
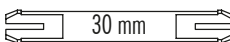
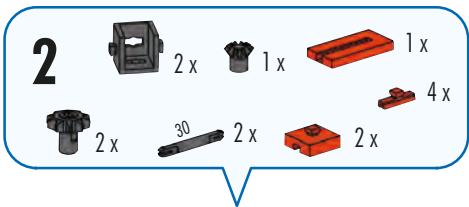
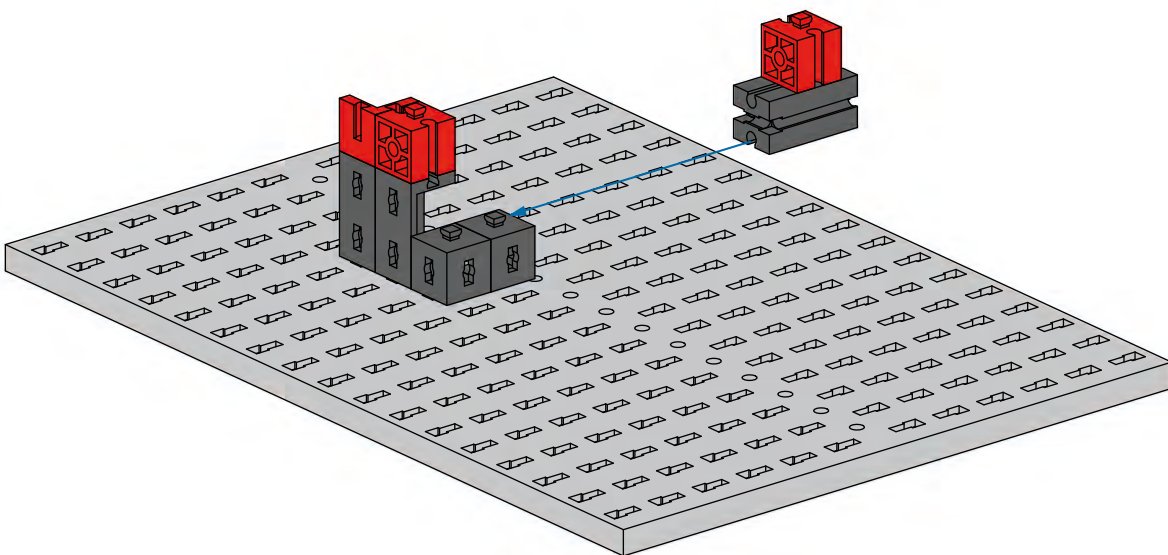
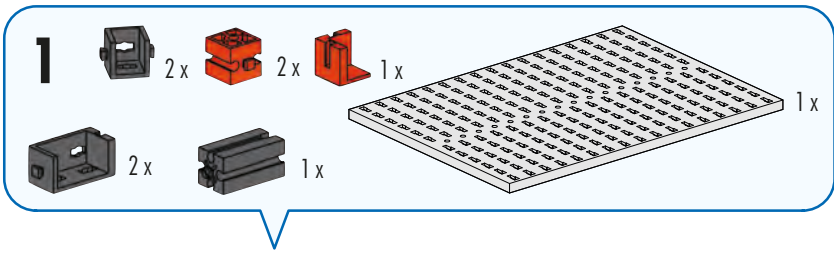


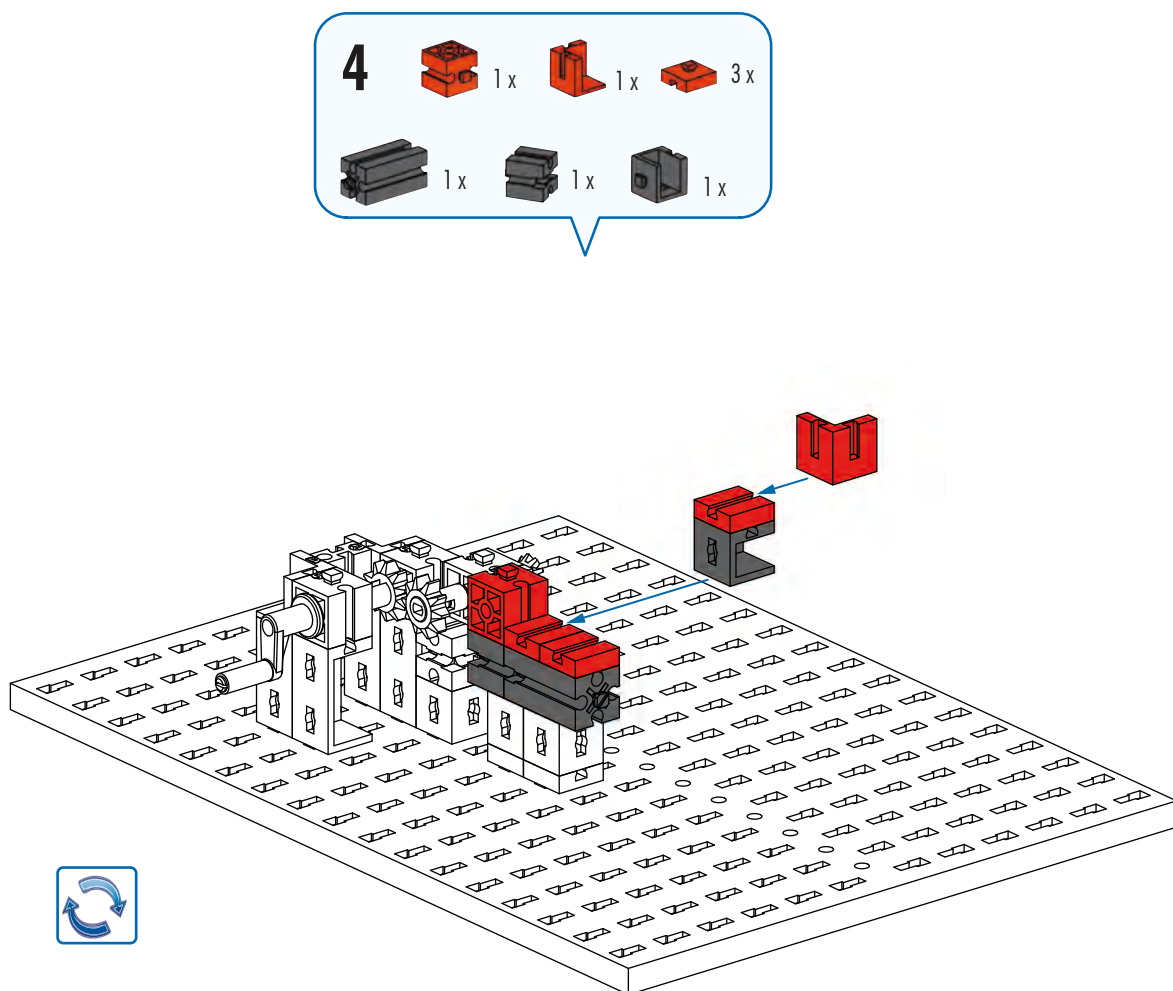
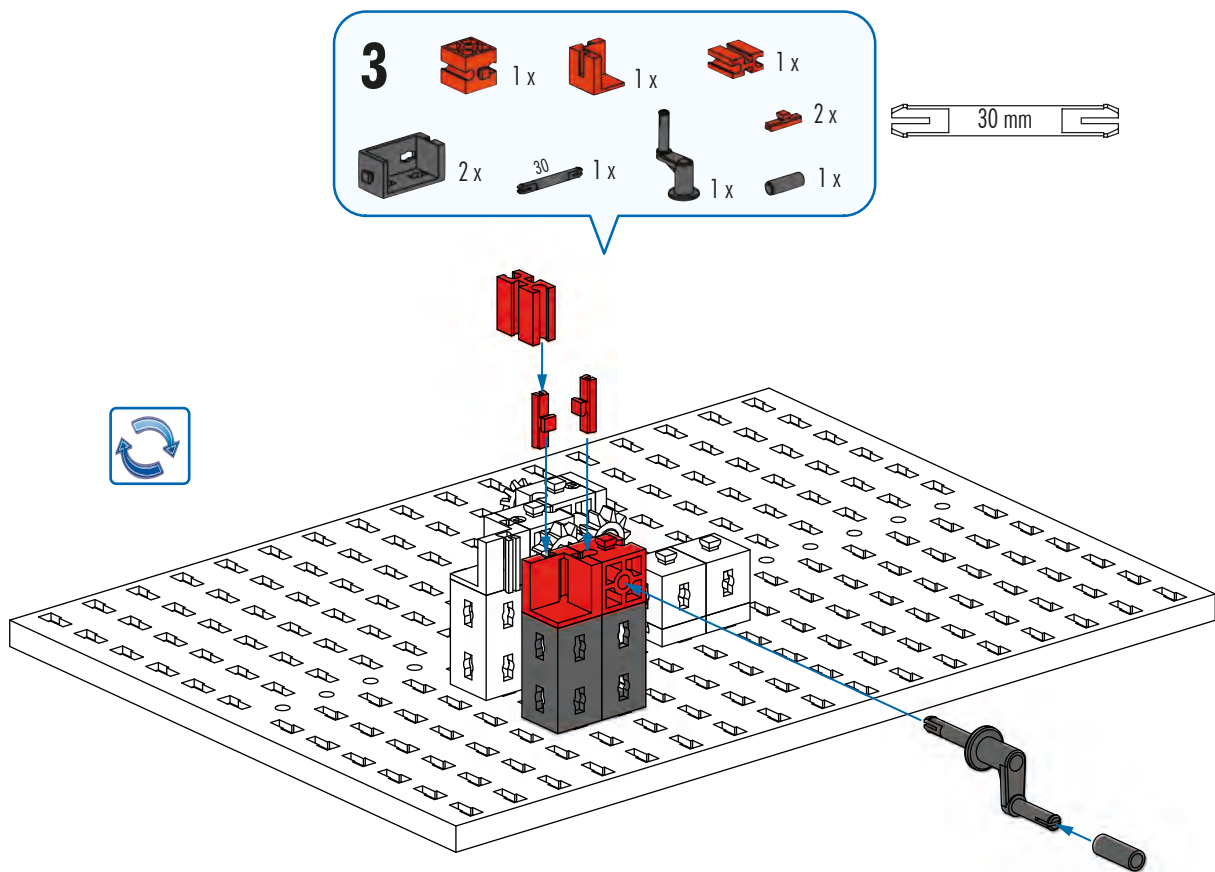


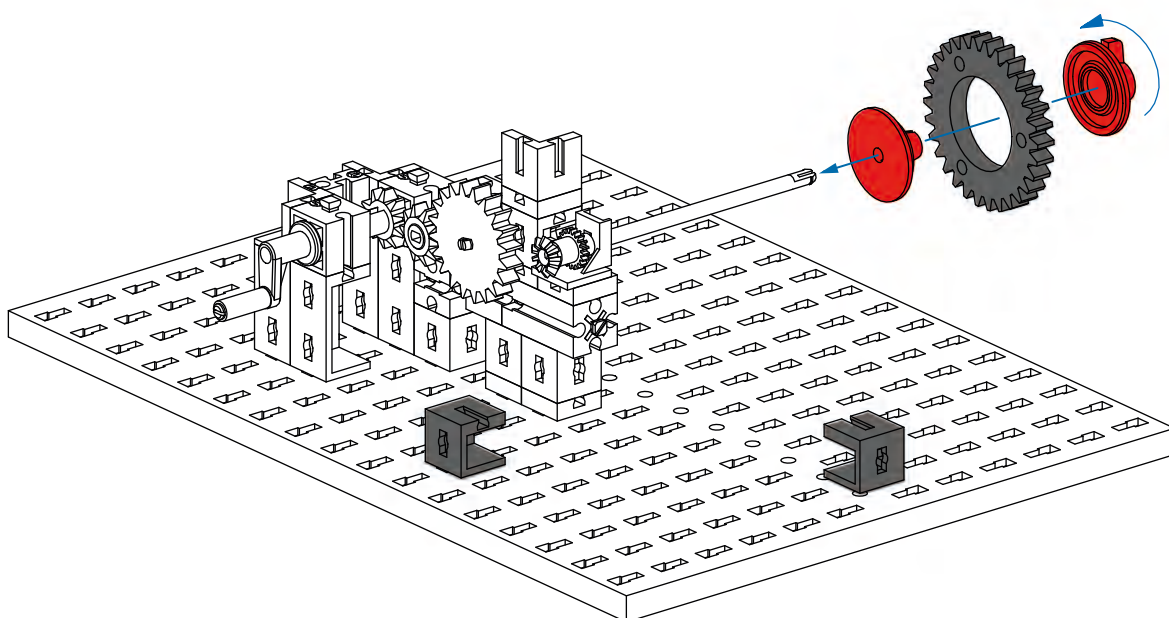
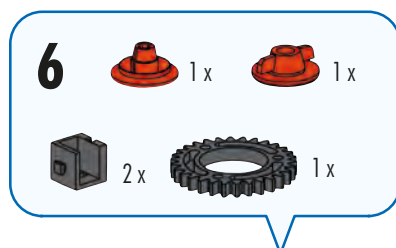
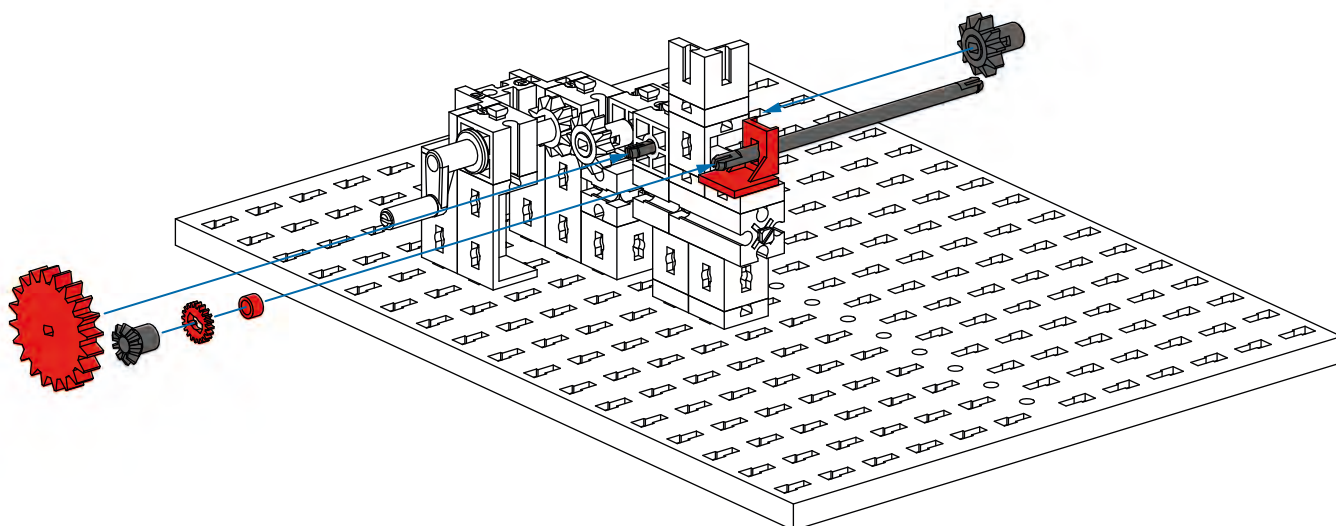
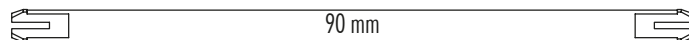
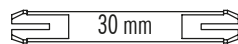
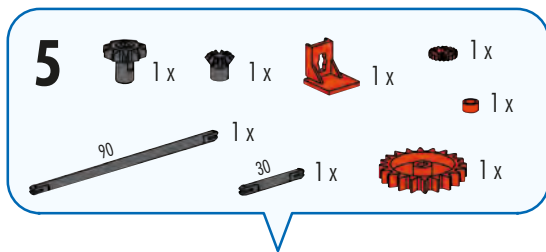
**Uhrwerk  
Clockworks  
Mouvement**

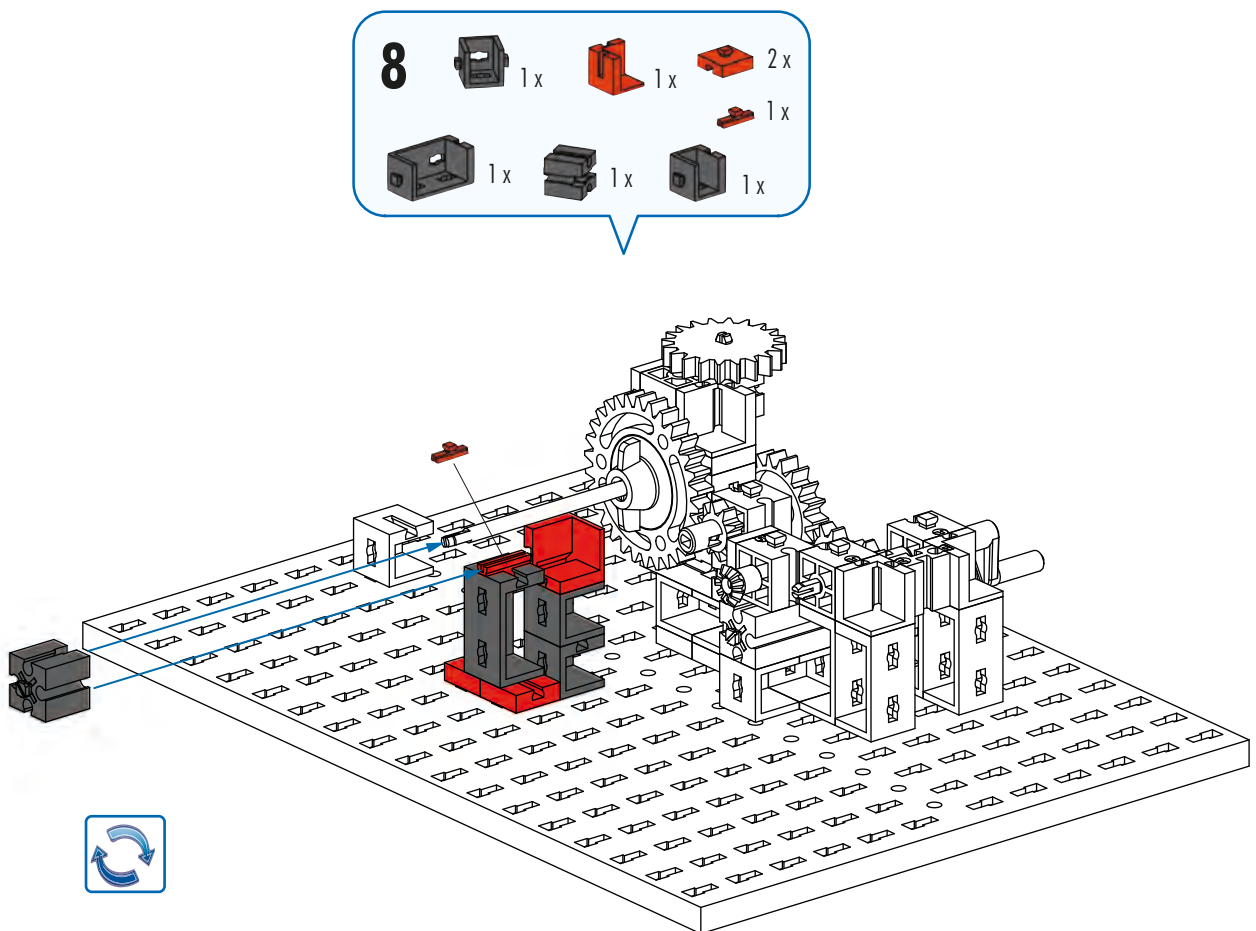
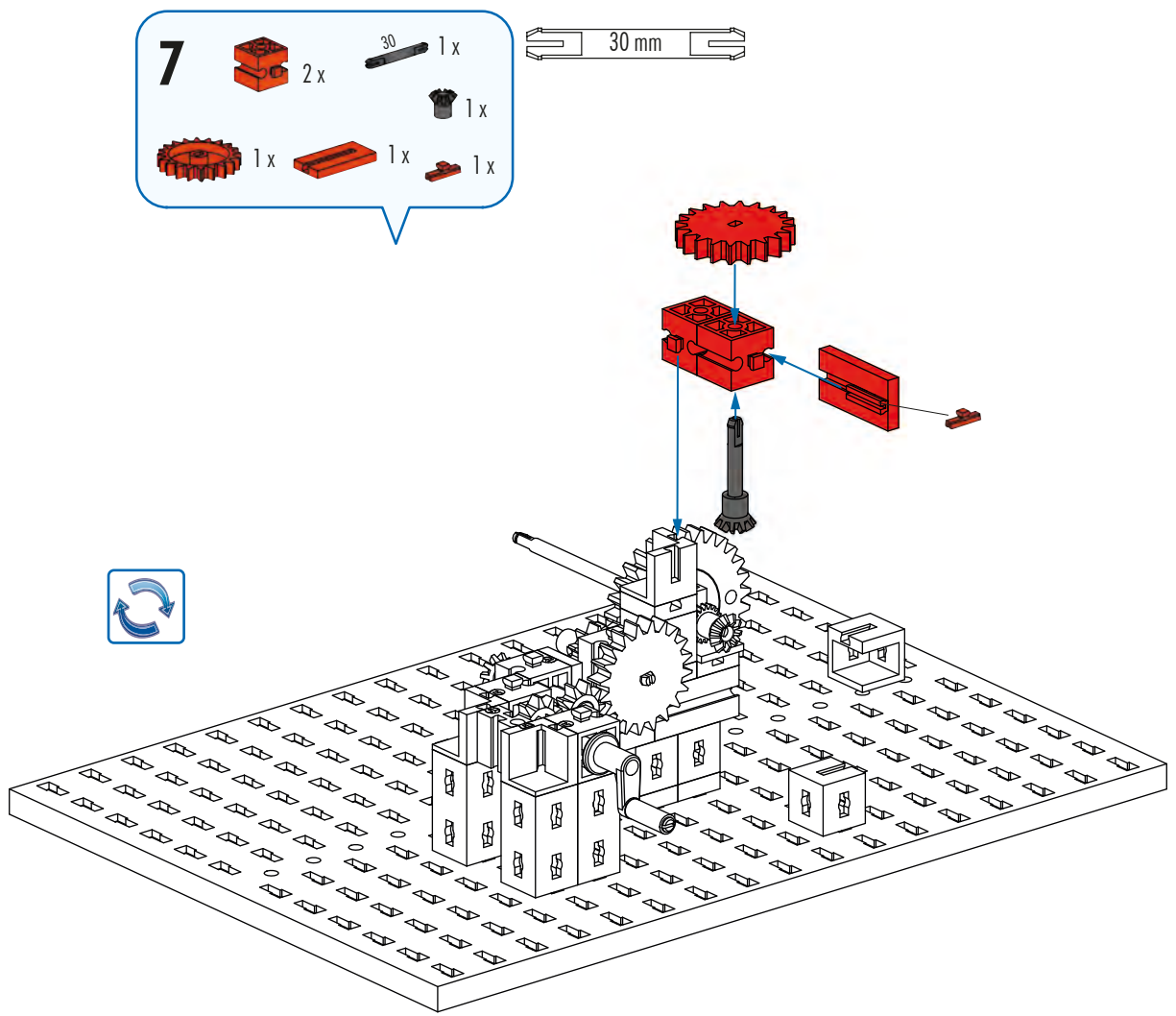
**Clockwork**  
**Reloj**  
**Clockwork**

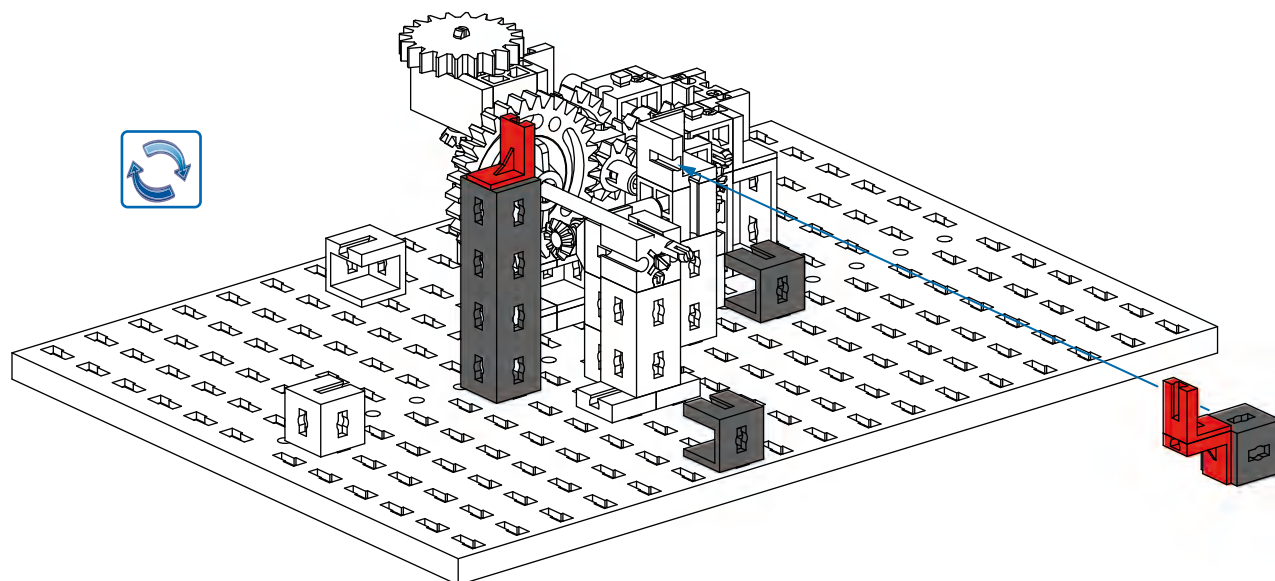
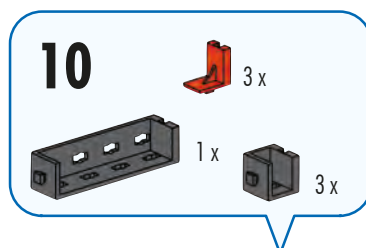
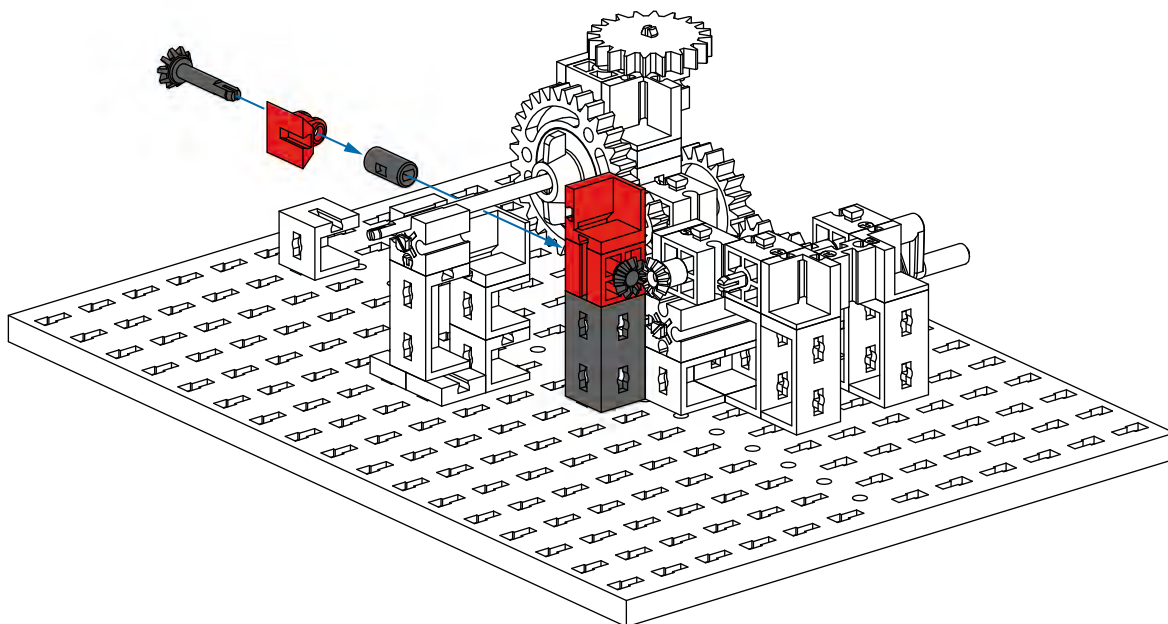
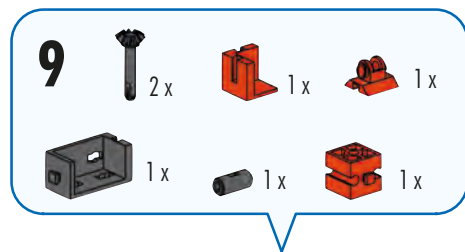
**Orologio**  
Часовой механизм  
发条





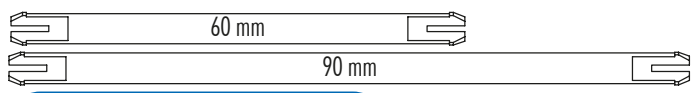
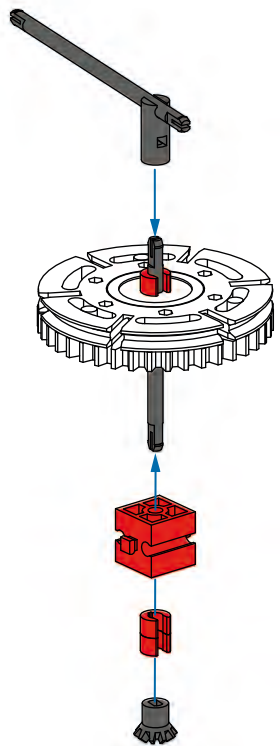
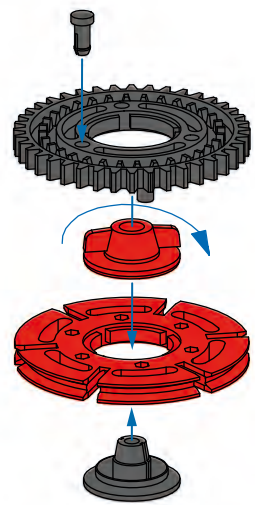






**11**

1x 1x 1x 1x 1x



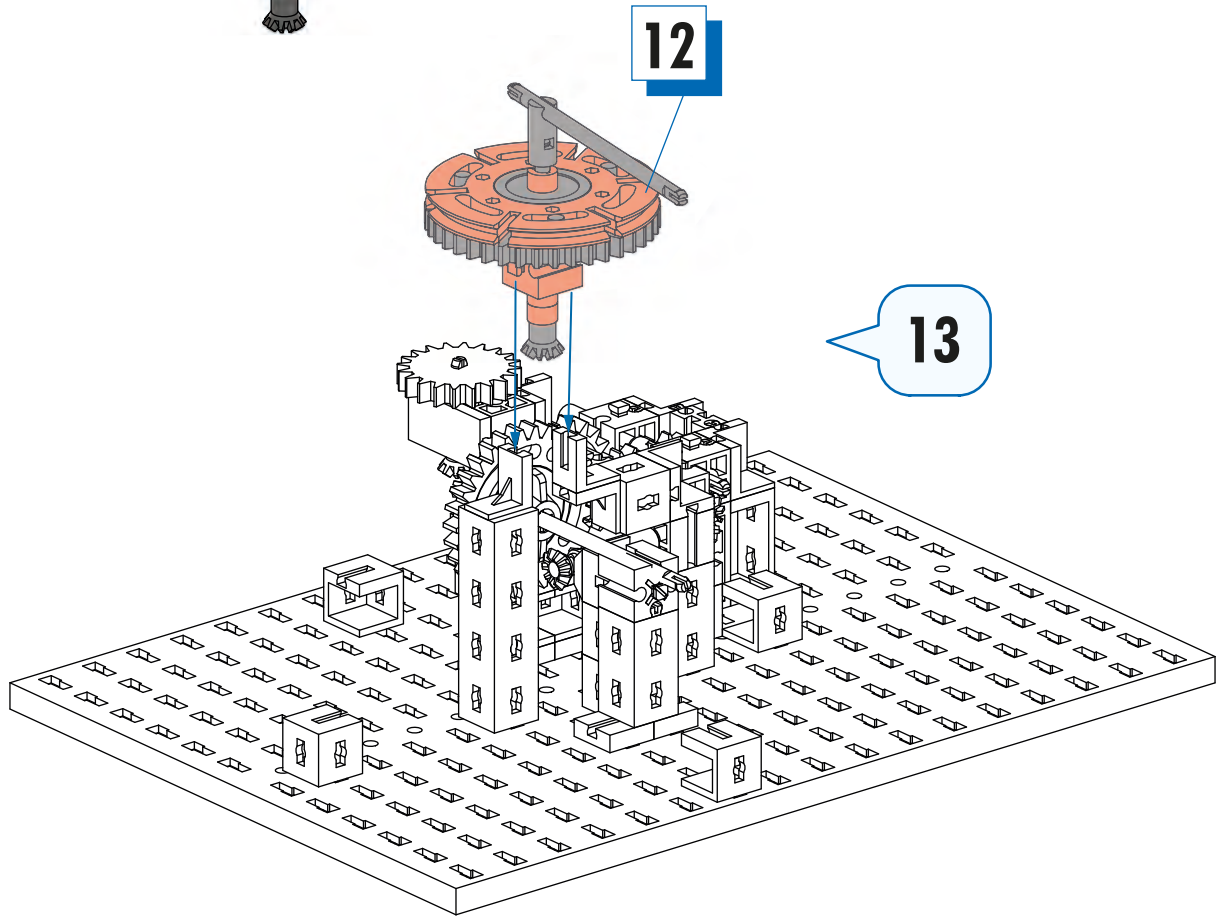
**12**

1x 1x 3x 1x 1x 1x 1x

90 60

**12**

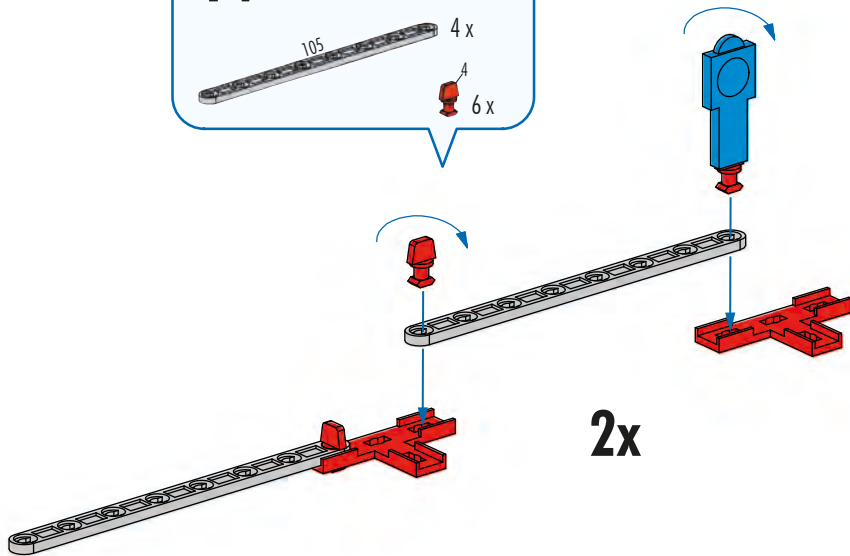
**13**



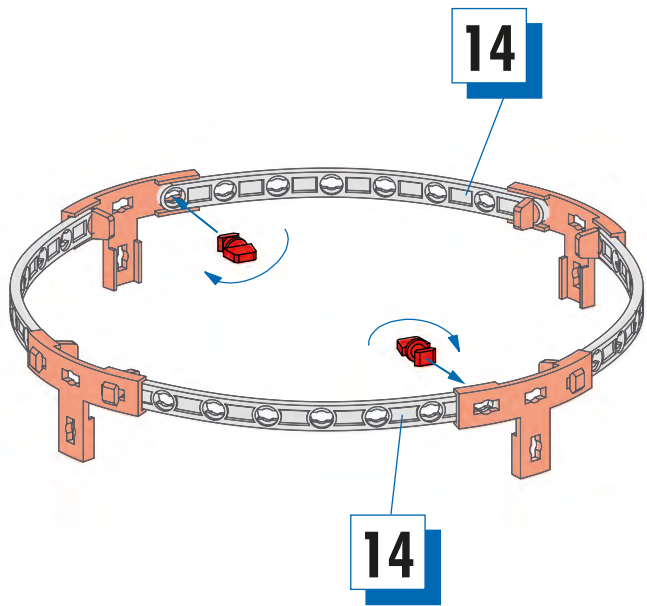
**14**  4 x

 4 x

 6 x

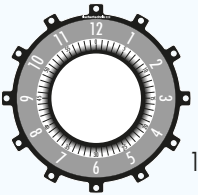


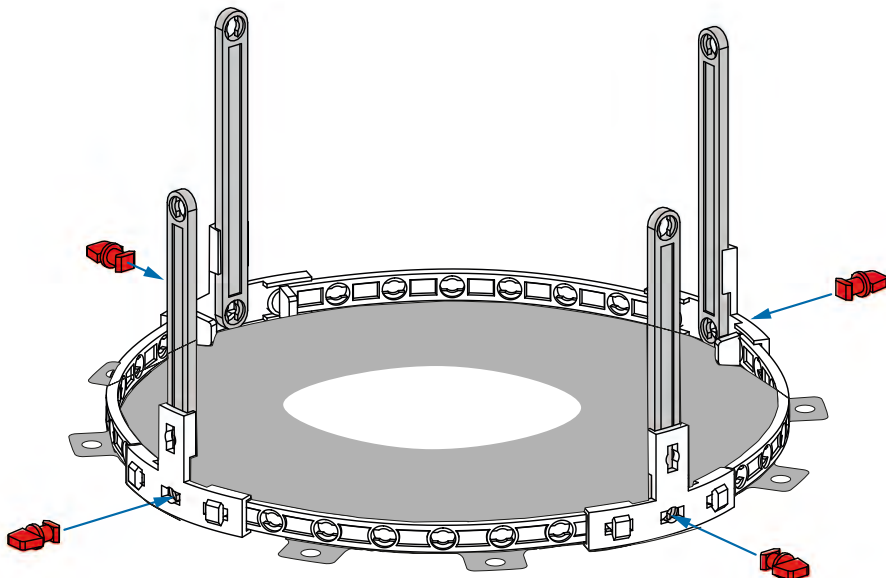
**15**  2 x



**16**  4 x

 4 x

 1 x



17



1 x

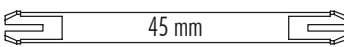
9 x



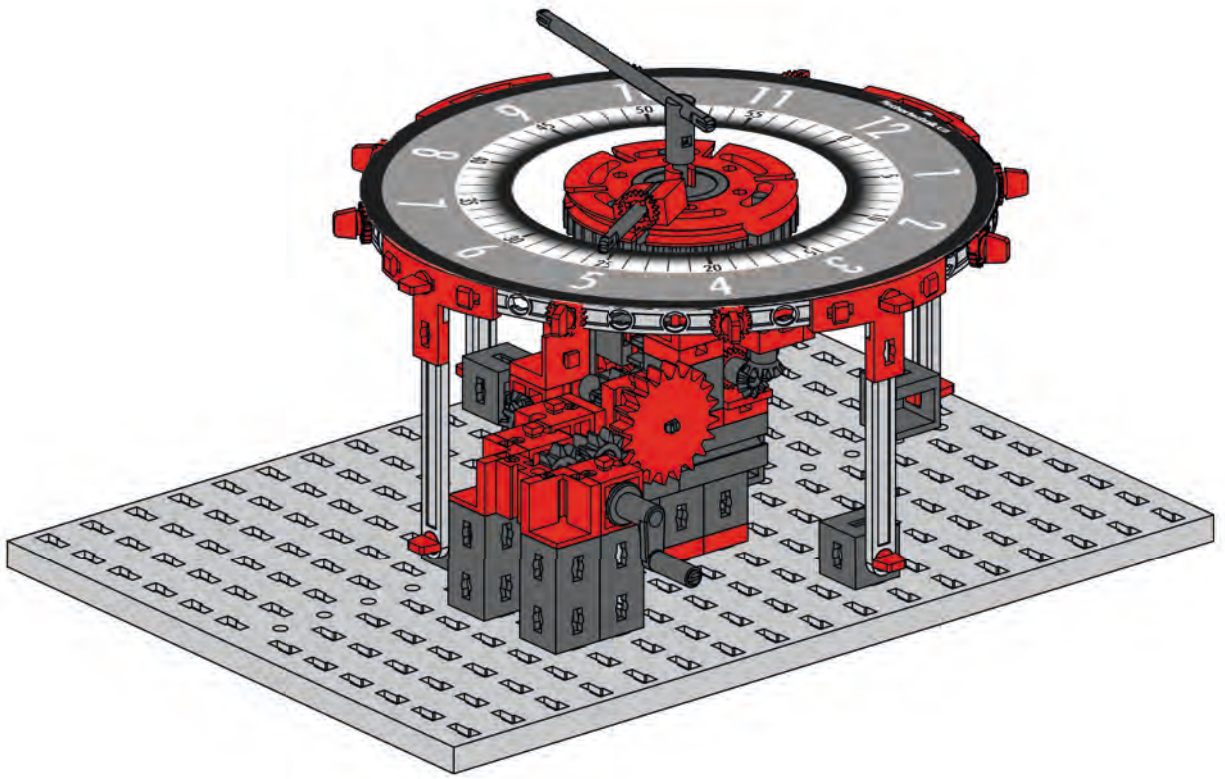
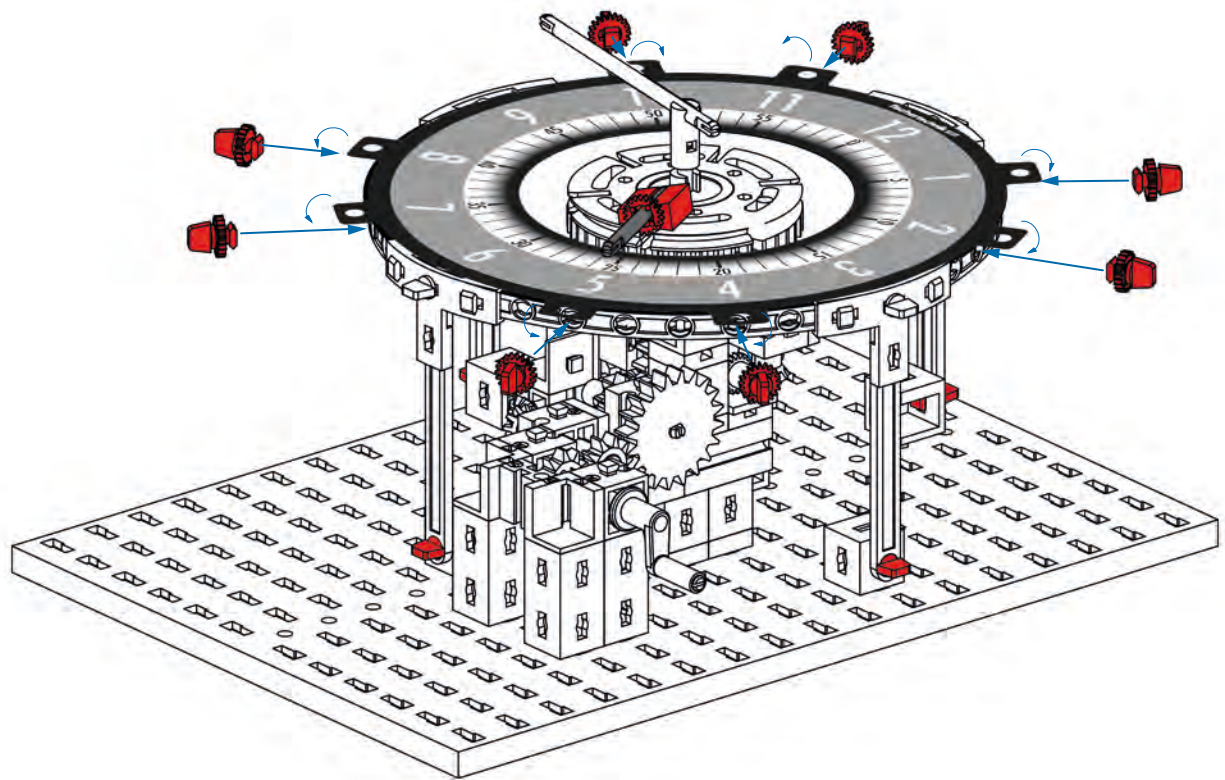
1 x



12 x



45 mm



1



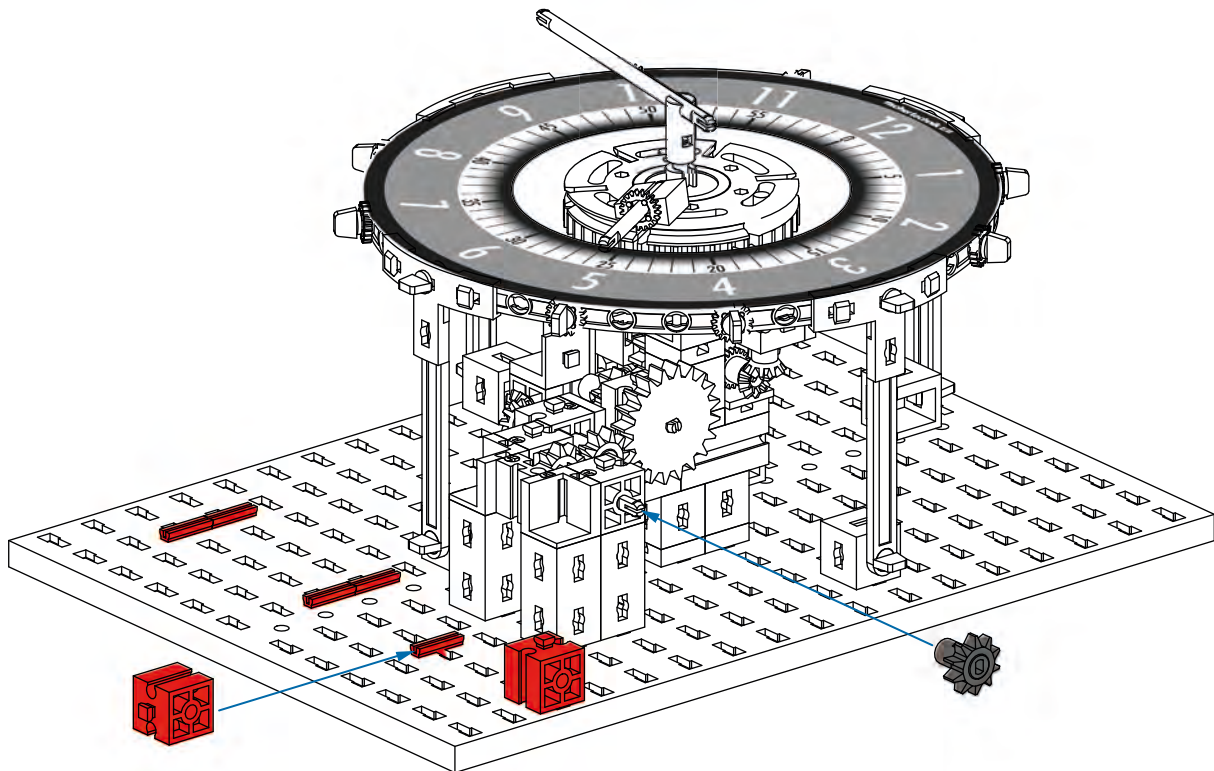
2 x



5 x



1 x



2



1 x



1 x



1 x



1 x



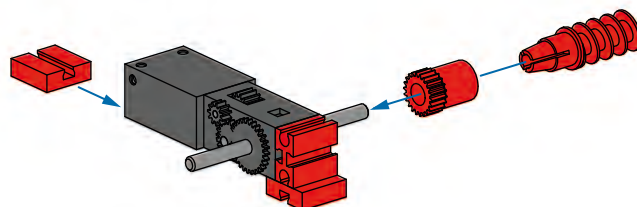
1 x



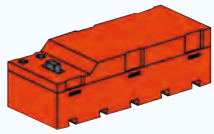
2 x



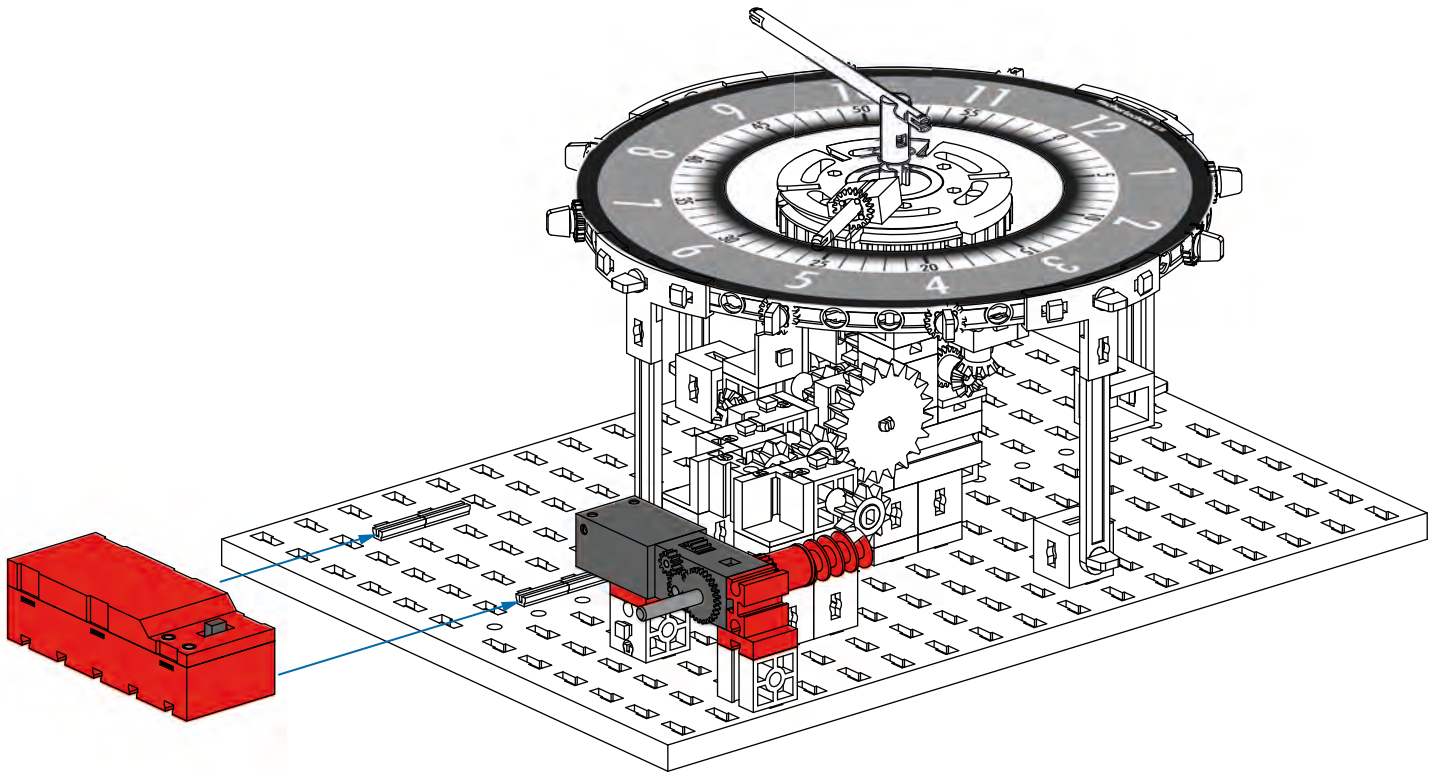
1 x



3



1x



4



1x

