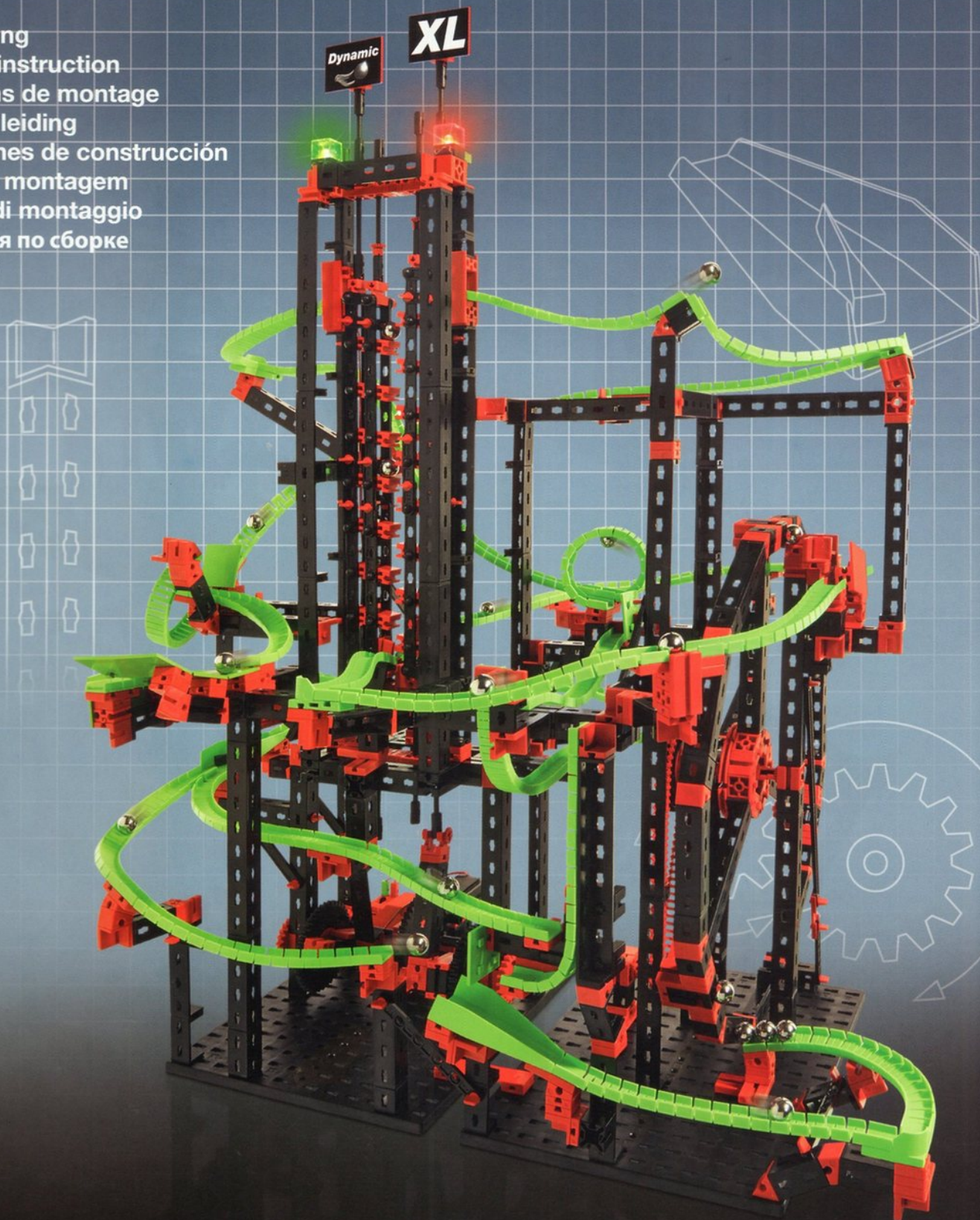




**fischertechnik** 

**PROFI**

Bauanleitung  
Assembly instruction  
Instructions de montage  
Bouwhandleiding  
Instrucciones de construcción  
Manual de montagem  
Istruzioni di montaggio  
Инструкция по сборке  
安装说明书



**Dynamic XL**

**8** MODELS

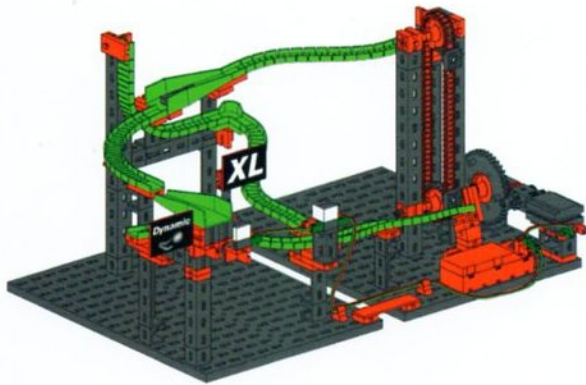
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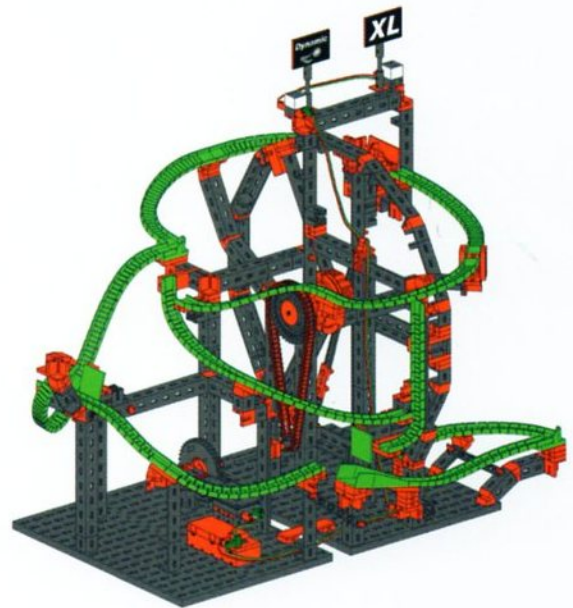
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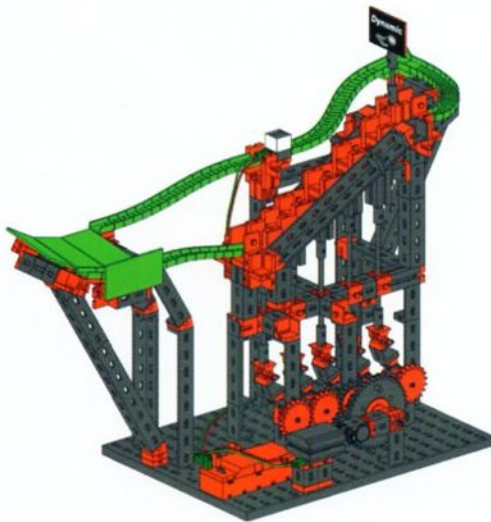


Kettenförderer / Chain conveyor / Transporteur à chaîne /  
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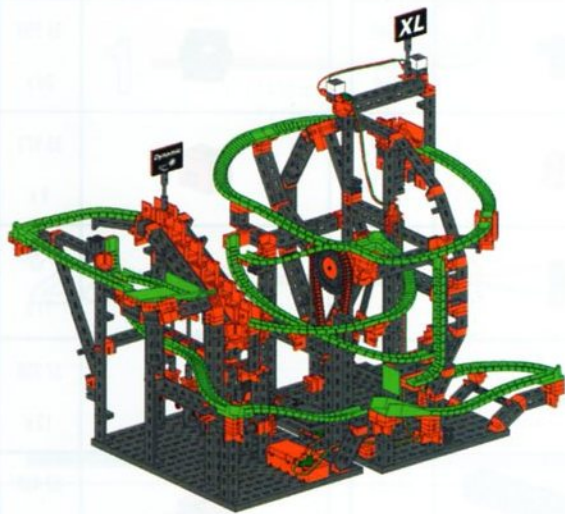
Stufenförderer / Stage conveyor / Transporteur vertical / Paternosterlift /  
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Convogliatore a gradini / Ступенчатый транспортёр /  
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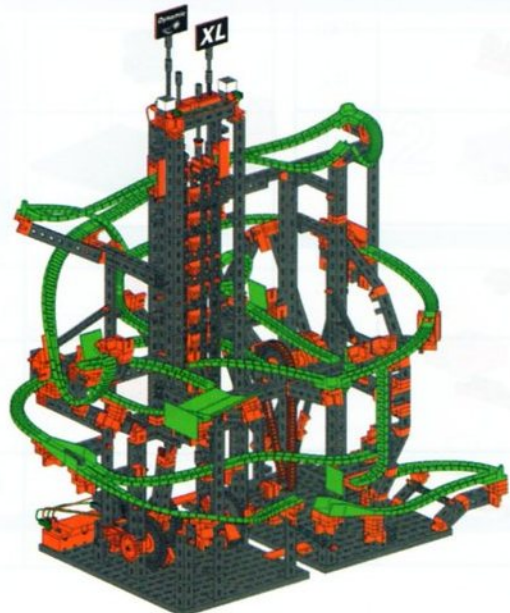
Schießförderer / Spring launcher / Lance-bille / Schietmechanisme /  
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**Einzelteilübersicht**  
**Spare parts list**  
**Liste des pièces détachées**

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

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

	31 010 13 x
	31 011 31 x
	31 019 1 x
	31 021 2 x
	31 022 4 x
	31 058 5 x
	31 060 3 x
	31 078 1 x
	31 082 1 x
	31 336 6 x
	31 337 6 x
	31 426 6 x
	31 436 11 x
	31 597 3 x
	31 602 1 x
	31 668 1 x
	31 690 2 x

	31 981 26 x
	31 982 52 x
	31 983 3 x
	32 064 32 x
	32 071 29 x
	32 293 1 x
	32 321 2 x
	32 330 8 x
	32 850 15 x
	32 870 42 x
	32 879 17 x
	32 880 2 x
	32 881 10 x
	32 985 2 x
	35 031 5 x
	35 049 42 x
	35 063 6 x

	35 064 4 x
	35 065 2 x
	35 066 3 x
	35 073 9 x
	35 086 2 x
	35 087 10 x
	35 088 5 x
	35 799 1 x
	35 945 4 x
	35 969 2 x
	36 227 14 x
	36 248 86 x
	36 293 32 x
	36 323 59 x
	36 334 10 x
	36 370 3 x
	36 382 1 x

	36 443 1 x
	36 819 5 x
	36 913 10 x
	36 914 12 x
	36 920 48 x
	36 921 40 x
	36 922 47 x
	36 923 4 x
	36 950 26 x
	36 973 9 x
	37 237 71 x
	37 238 12 x
	37 468 65 x
	37 636 2 x
	37 679 54 x
	38 216 2 x
	38 240 70 x

	38 241 21 x		38 428 12 x		135 719 1 x		151 715 5 x
	38 242 5 x		38 464 2 x		137 677 4 x		151 716 2 x
	38 246 2 x		38 546 18 x		143 234 31 x		151 717 1 x
	38 248 3 x		119 753 2 x		144 262 12 x		152 249 4 x
	38 413 1 x		119 850 3 x		146 378 2 x		152 657 1 x
	38 416 1 x		132 875 2 x		146 534 3 x		

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

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

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

Kabel und Stecker  
Plugs and cables  
Fiches et des câbles

Stekkers en cables  
Enchufes en cables  
Cabos e contatos

Cavi e connettori  
Провода и штекеры  
电缆和插头

- 1 

1 x 10 cm  
1 x 15 cm  
1 x 75 cm
- 2 

3cm 3cm

0 3cm
- 3 

4mm
- 4 

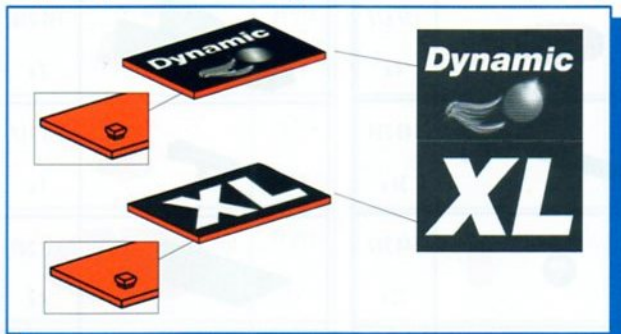
1 x 10 cm  
1 x 15 cm  
1 x 75 cm

- 1
- 2 6x

- 1
- 2 5x


25 cm  
20 cm  
15 cm  
10 cm  
5 cm  
0

## Montagetipps Tips for assembly Tuyaux pour le montage



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



9V ...

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

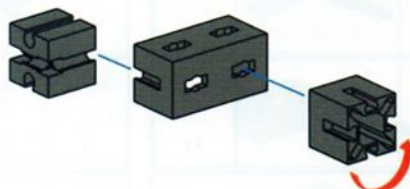
Rainbow LED  
Rainbow LED  
DEL Rainbow  
Rainbow-LED  
LED de arco iris  
Rainbow LED  
Rainbow LED  
Светодиод „радуга“  
LED 彩灯



Erfinder Flexprofil 143 234, Entwickler 90° Kurve 151 715 und Wechselweiche 151 716+151 717



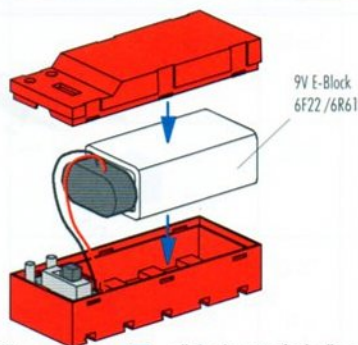
Design und Konzeption Andreas Lehrberger



## Sicherheitshinweise Safety Information Consignes de sécurité

## Veiligheidsrichtlijnen Indicaciones de seguridad Observações sobre segurança

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



9V E-Block  
6F22 / 6R61

Batterie ist nicht Inhalt der Packung  
Battery not included  
Batterie non comprise  
De batterij wordt niet meegeleverd  
La batería no está incluida en el suministro  
A bateria não é o conteúdo da embalagem  
La batteria non è inclusa nella confezione  
Батарея в комплект не входит  
包装中不含电池

**1 Batterie 9Volt-Block Alkaline oder 1 NiMH-Akku 9V**  
Nicht wiederaufladbare Batterien dürfen nicht geladen werden  
Aufladbare Batterien dürfen nur von Erwachsenen geladen werden  
Aufladbare Batterien sind aus dem Batteriehalter herauszunehmen, bevor sie geladen werden.  
Batterien müssen mit der richtigen Polarität eingelegt werden.  
Leere Batterien müssen aus dem Spielzeug herausgenommen werden  
Die Anschlussklemmen dürfen nicht kurzgeschlossen werden.  
Verbrauchte Batterien dem Sondermüll zuführen.  
Drähte nicht in Steckdose einführen!  
Ladegerät regelmäßig auf Schäden überprüfen. Bei einem Schaden darf das Ladegerät bis zur vollständigen Reparatur nicht mehr verwendet werden.

**1 alkaline batterije of oplaadbare batterije (9Volt)**  
Niet-oplaadbare batterijen mogen niet worden opgeladen.  
Oplaadbare batterijen mogen uitsluitend door volwassenen worden opgeladen.  
Oplaadbare batterijen moeten uit de batterijhouder worden verwijderd, voordat deze worden opgeladen.  
De batterijen moeten met de juiste polariteit worden geplaatst.  
Lege batterijen moeten uit het speelgoed worden verwijderd.  
De aansluitklemmen mogen niet worden kortgesloten.  
Afleren gebruikte batterijen bij het klein chemisch afval (KCA).  
Geen draden in de contactdoos steken!  
Ladtoestel regelmatig controleren op schade. Bij schade mag het ladtoestel niet meer gebruikt worden tot het volledig hersteld is.

**1 batteria alcalina da 9 V o 1 batteria NiMH- ricaricabile da 9V**  
Le batterie non ricaricabili non devono essere ricaricate  
La batterie ricaricabili devono essere ricaricate da persone adulte  
La batterie ricaricabili si devono estrarre dal supporto prima di ricaricarle.  
Le batterie si devono inserire rispettando la polarità.  
Togliere le batterie dal giocattolo quando sono scariche  
I morsetti di allacciamento non devono essere cortocircuitati.  
Smaltire le batterie usate negli appositi contenitori per la raccolta differenziata.  
Non inserire i fili nella presa elettrica.  
Controllare periodicamente se il caricabatterie presenta dei danni. In caso di danni, il caricabatterie non deve più essere utilizzato fino alla riparazione.

**9V rechargeable battery or 9V alkaline dry cell**  
Do not attempt to charge NON-rechargeable batteries.  
Rechargeable batteries are only to be charged by adults.  
Take rechargeable batteries out of the battery tray before charging them.  
Insert batteries with the correct polarity.  
Remove dead batteries from the tray.  
Do not short circuit the connecting terminals!  
Discard spent dry cells at special waste disposal centre.  
Do not insert the wires into an outlet!  
Regularly inspect battery charger for damage. If the battery charger has been damaged, it should not be used further until fully repaired.

**1 pila alcalina bloque de 9 Voltios o acumulador NiMH- de 9 Voltios**  
Las pilas no recargables no pueden ser cargadas  
Las pilas recargables sólo pueden ser cargadas por un adulto  
Las pilas recargables deben ser extraídas del compartimento de pilas antes de que sean cargadas.  
Las pilas deben ser colocadas con la polaridad correcta.  
Las pilas descargadas deben ser extraídas del juguete  
Los bornes de conexión no pueden ser puestos en cortocircuito.  
Retirar las baterías viejas, desechándolas en un depósito de basuras especiales.  
No introducir hilos en la toma de corriente!  
Comprobar con regularidad si el cargador presenta daños. En caso de presentar daños, el cargador no debe volver a ser utilizado hasta que esté completamente reparado.

**1 алкалиновая батарейка на 9 В или 1 никель-кадмиевый аккумулятор, 9 В**  
Не пытайтесь заряжать перезаряжаемые батарейки.  
Зарядку перезаряжаемых аккумуляторов разрешается выполнять только взрослым.  
Перед зарядкой перезаряжаемых аккумуляторов извлеките их из аккумуляторного отсека.  
При установке аккумуляторов на место соблюдайте полярность.  
Разряженные батарейки необходимо извлечь из игрушки.  
Не замыкайте накоротко соединительные клеммы.  
Использованные батареи утилизировать как спецотходы.  
Не вставляйте в розетку провода!  
Регулярно проверяйте зарядное устройство на отсутствие повреждений. При наличии повреждений использовать зарядное устройство до выполнения его полного ремонта не разрешается.

**pile 9V ou accu 9V**  
Il est interdit de recharger des piles qui ne sont pas des accumulateurs  
Le chargement des accumulateurs doit toujours se faire par des adultes  
Retirer les accumulateurs du support de pile avant de les recharger.  
Veiller à la polarité correcte lors de la mise en place des piles.  
Retirer impérativement les piles ou accumulateurs vides du jouet.  
Il est interdit de court-circuiter les bornes de raccordement.  
Jeter les piles usagées dans un conteneur spécial réservé à cet effet.  
Ne pas introduire les fils dans une prise !  
Contrôlez régulièrement le chargeur en vue d'éventuelles détériorations  
En cas de détérioration, il est interdit d'utiliser le chargeur jusqu'à ce qu'il ait été intégralement réparé

**Bateria alcalina de bloco de 9 V ou acumulador NiMH- de 9 V**  
Pilhas não recarregáveis não devem ser novamente carregadas.  
Pilhas recarregáveis somente devem ser recarregadas por adultos.  
Pilhas recarregáveis devem ser retiradas do compartimento de pilhas antes de serem carregadas.  
As pilhas devem ser colocadas com a polaridade correta.  
As pilhas descarregadas devem ser retiradas do brinquedo.  
Os terminais de conexão não devem ser curto-circuitados.  
Eliminar as baterias esgotadas como desperdício perigoso  
Nunca introduzir fios na tomada!  
Verificar regularmente se o carregador apresenta danos. Em caso de dano, o carregador não deverá ser utilizado enquanto não estiver plenamente consertado.

**1 个 9V 的碱性干电池或 1 个 9V 的 NiMH- 蓄电池**  
不得给非充电电池充电  
只允许由成年人给充电电池充电  
在充电前必须将充电电池从电池夹中取出。  
必须按照正负极正确放入电池。  
必须从玩具中取出没有电的电池  
接线柱不允许被短路。  
用完了的电池应作为特种垃圾处理。  
禁止将金属棒插入插座！  
经常检查充电器是否有损坏情况。如果充电器有损坏，直到完全修好为止不可以再使用。

**Sicherheitshinweise**  
**Safety Information**  
**Consignes de sécurité**

**Veiligheidsrichtlijnen**  
**Indicaciones de seguridad**  
**Observações sobre segurança**

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

- Alle elektrischen Bauteile (Motoren, Lampen) dürfen ausschließlich an Stromversorgungen von fischertechnik angeschlossen werden.
- No electrical components (motors, lamps) are to be connected to any other power supply than that provided by fischertechnik.
- Tous les composants électriques (moteurs, lampes) ne doivent être branchés aux alimentations électriques uniquement que par la société Fischertechnik.
- Alle elektrische componenten (motoren, lampen) mogen uitsluitend op stroomvoorzieningen van fischertechnik worden aangesloten.
- Todos los componentes eléctricos (motores, luces) deben conectarse a la alimentación de corriente de la técnica Fischer exclusivamente.
- Todas as peças componentes elétricas (motores, lâmpadas) só podem ser exclusivamente conectadas em abastecimentos de corrente da Fischertechnik.
- Tutti i componenti elettrici (motori, lampadine) devono essere collegati esclusivamente ad alimentatori fischertechnik.
- Все электрические детали (электромоторы, лампочки.) можно подключать только к источникам электропитания от fischertechnik.
- 只允许将所有电气部件 (传感器, 电机, 灯泡) 与慧鱼技术产品的电源装置相连接

- 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 scherpe randen of punten!
- Attenzione! Esiste il pericolo di lesione con i pezzi di costruzione che hanno bordi e punte spigolosi necessari per la funzionalità del pezzo!
- 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 limpas.
- 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。

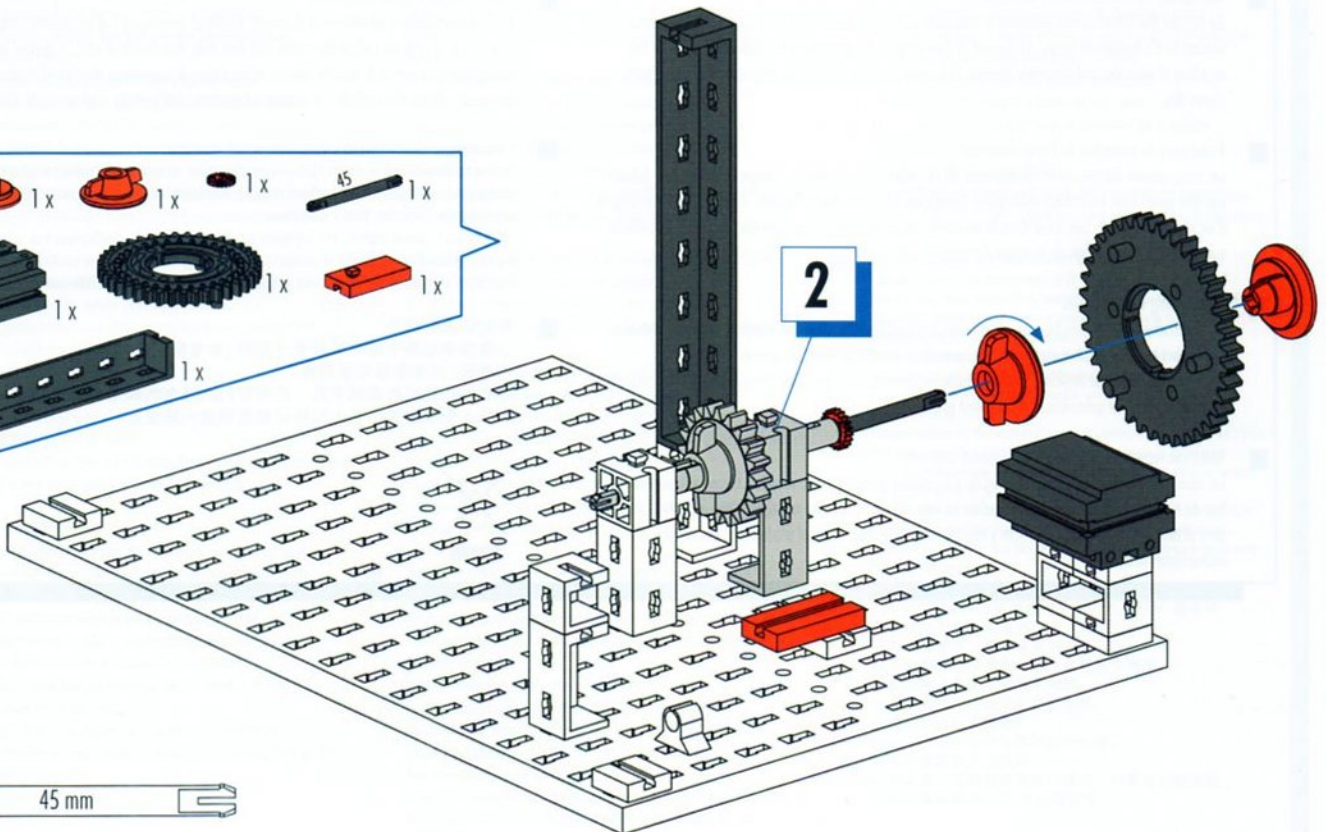
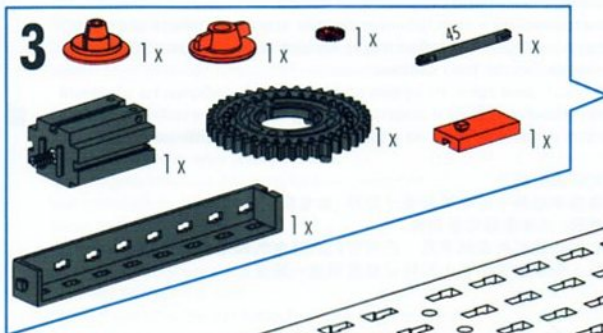
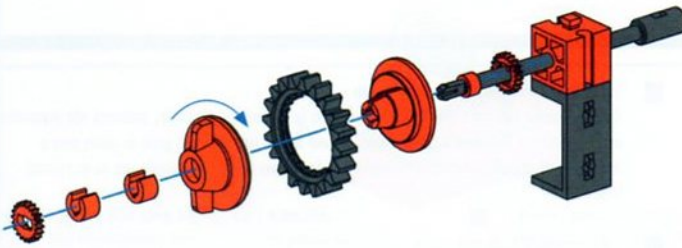
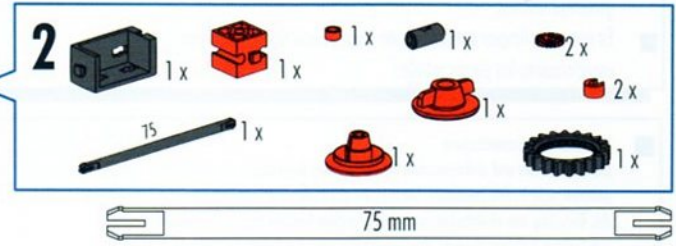
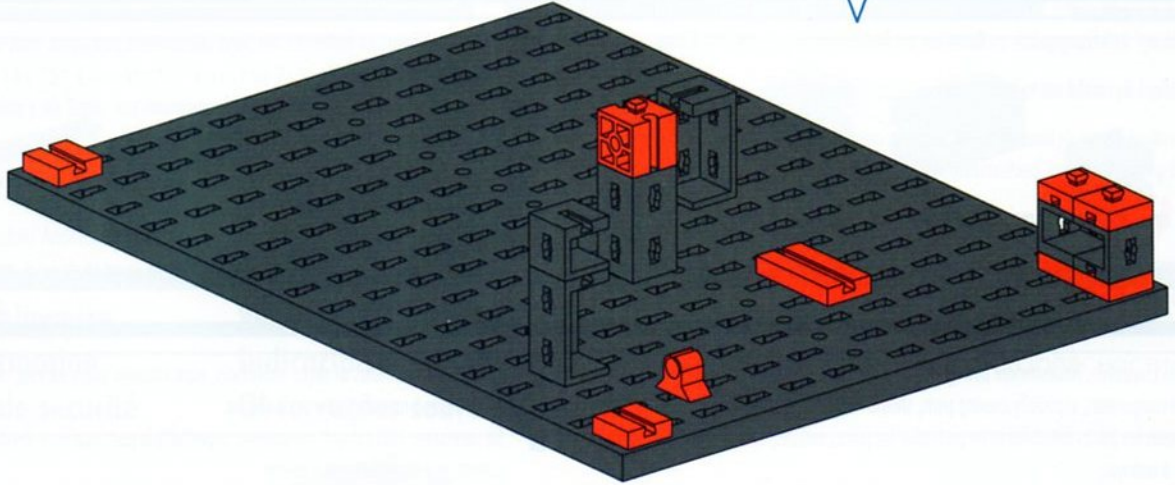
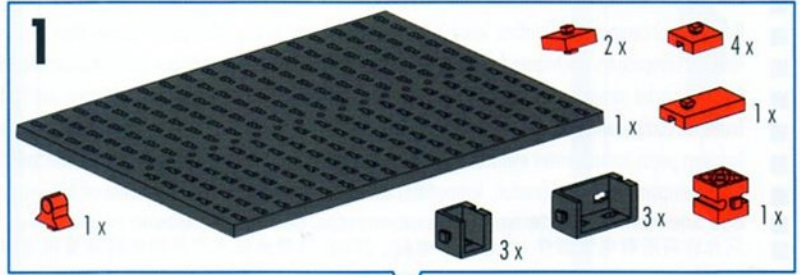
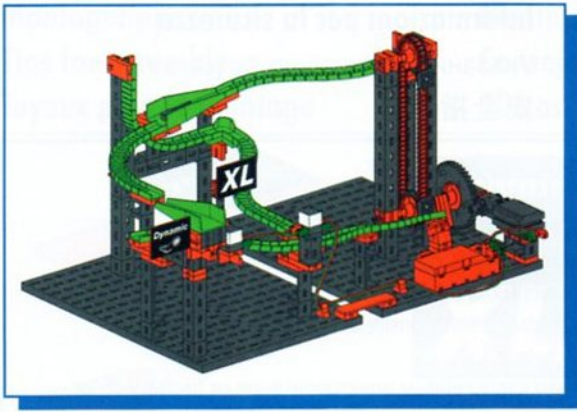
- Hinweise zum Umweltschutz  
Die elektrischen und elektronischen Bauteile dieses Baukastens (z. B. Motoren, Lampen, Sensoren) gehören nicht in den Hausmüll. Sie müssen am Ende ihrer Lebensdauer an einem Sammelpunkt für das Recycling von elektrischen und elektronischen Geräten abgegeben werden.  
Das Symbol auf dem Produkt, der Verpackung oder der Anleitung weist darauf hin.
- Instructions for Environmental Protection  
Do not put the electrical and electronic components of this construction kit such as motors, lights and sensors in the household waste. At the end of their service life, take them to a collection point for the recycling of electrical and electronic devices. The symbol on the product, packaging or the instructions shows this.
- Remarques de protection de l'environnement  
Les composants électriques et électroniques de ce coffret (par ex. moteurs, lampes, capteurs) ne doivent pas être jetés avec les ordures ménagères. Lorsqu'elles ne sont plus utilisables, il faut les remettre auprès d'un centre de collecte spécialisé dans le recyclage des appareils électriques et électroniques. Le symbole sur le produit, l'emballage ou la notice d'instructions le signale.
- Bescherming van het milieu  
De elektrische en elektronische onderdelen van deze module (bijv. motoren, lampen, sensoren) behoren niet bij het huisvuil. Aan het einde van hun levensduur moeten ze worden ingeleverd bij een verzamelplaats voor de recycling van elektrische en elektronische apparaten. Het symbool op het product, de verpakking of de gebruiksaanwijzing wijst je daar ook op.
- Notas con respecto a la protección del medio ambiente  
Los componentes eléctricos y electrónicos de esta unidad modular (p. ej. motores, lámparas, sensores) no han de tirarse a la basura casera. Al final de su vida útil tienen que ser entregados en un puesto colector para el reciclaje de aparatos eléctricos y electrónicos. El símbolo sobre el producto, el embalaje o las instrucciones lo señala.
- Instruções para a proteção do meio ambiente  
Os componentes elétricos e eletrônicos deste módulo (p.ex. motores, lâmpadas, sensores) não pertencem ao lixo doméstico. Eles devem ser entregues, no final da sua vida útil, num posto de coleta para a reciclagem de aparelhos elétricos e eletrônicos. O símbolo no produto, na embalagem ou no manual indica isto.
- Indicazioni sulla tutela ambientale  
I componenti elettrici ed elettronici di questa scatola di montaggio (ad es. motori, lampadine, sensori) non vanno smaltiti tra i rifiuti domestici. Alla fine della loro durata di utilizzo devono essere consegnati a un centro di raccolta adibito al riciclaggio di apparecchi elettrici ed elettronici. Ciò viene indicato dal simbolo che si trova sul prodotto, sull'imballaggio o sul manuale d'istruzioni.
- Указания по охране окружающей среды  
Электрические и электронные детали этого комплекта (датчики, электромоторы, лампочки и др.) нельзя выбрасывать с бытовым мусором. После того как они отслужат свой срок, их нужно сдать для переработки на сборный пункт электрических и электронных приборов. На это указывает знак на изделии, на упаковке или на инструкции.
- 有关环保的提示  
不得将本组件中的电气和电子部件 (如电机, 灯泡, 传感器) 当作家庭垃圾扔掉。  
等它们的使用寿命结束后, 应将它们送抵电气和电子器材回收站。  
产品、包装或说明书上的标记也说明这一规定。



**Kettenförderer**  
Chain conveyor  
Transporteur à chaîne

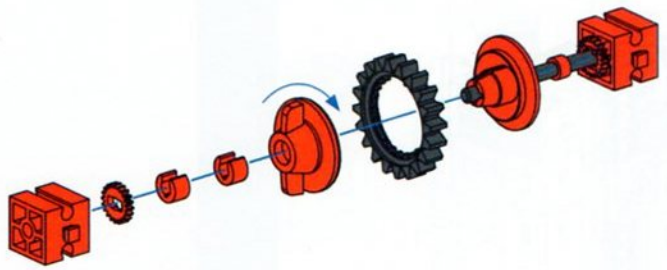
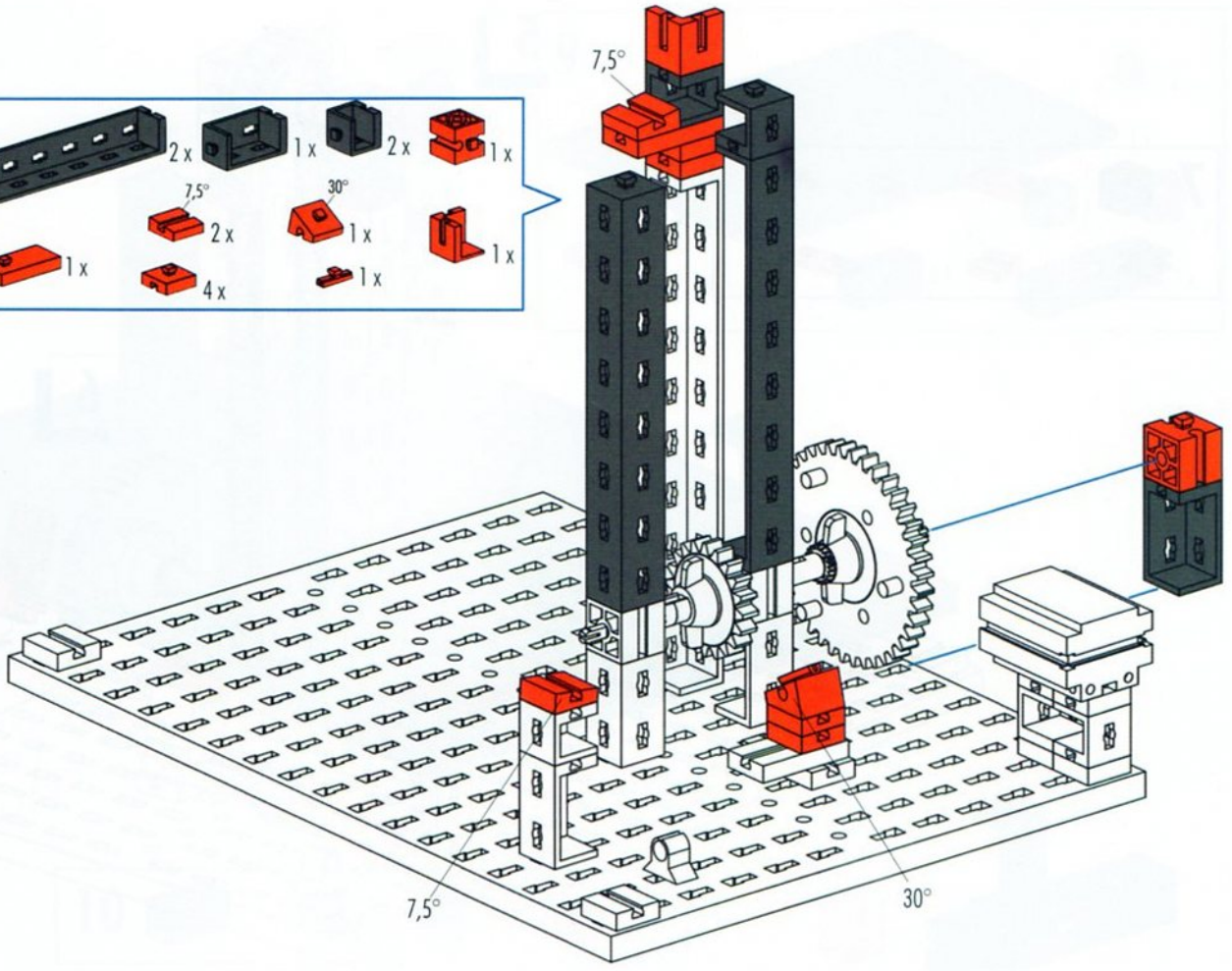
**Kettingtransporteur**  
Transportador de cadena  
Transportadora de corrente

**Convogliatore a catena**  
Цепной транспортёр  
链式输送机



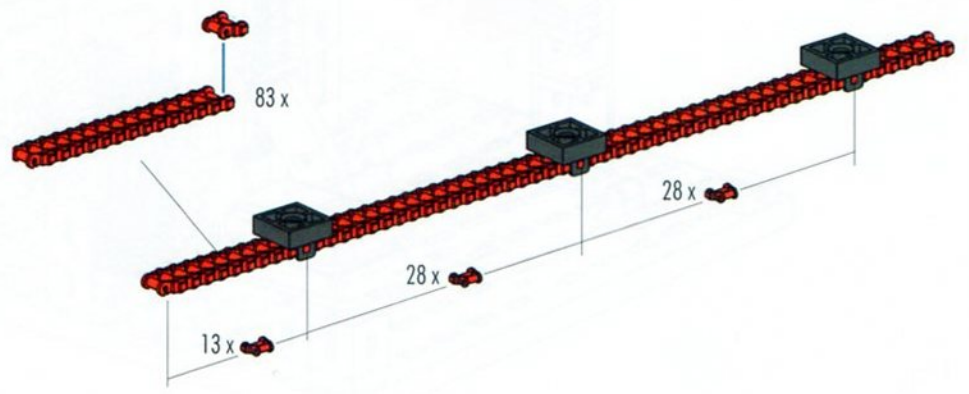


- 4**
- 1 x 12-hole black Technic beam
  - 2 x 1-hole black Technic bush
  - 1 x 1-hole black Technic bush
  - 2 x 1-hole black Technic bush
  - 1 x 1-hole black Technic bush
  - 1 x 1-hole red Technic bush
  - 2 x 1-hole red Technic bush
  - 4 x 1-hole red Technic bush
  - 2 x 7.5° red Technic bush
  - 1 x 30° red Technic bush
  - 1 x 1-hole red Technic bush
  - 1 x 1-hole red Technic bush

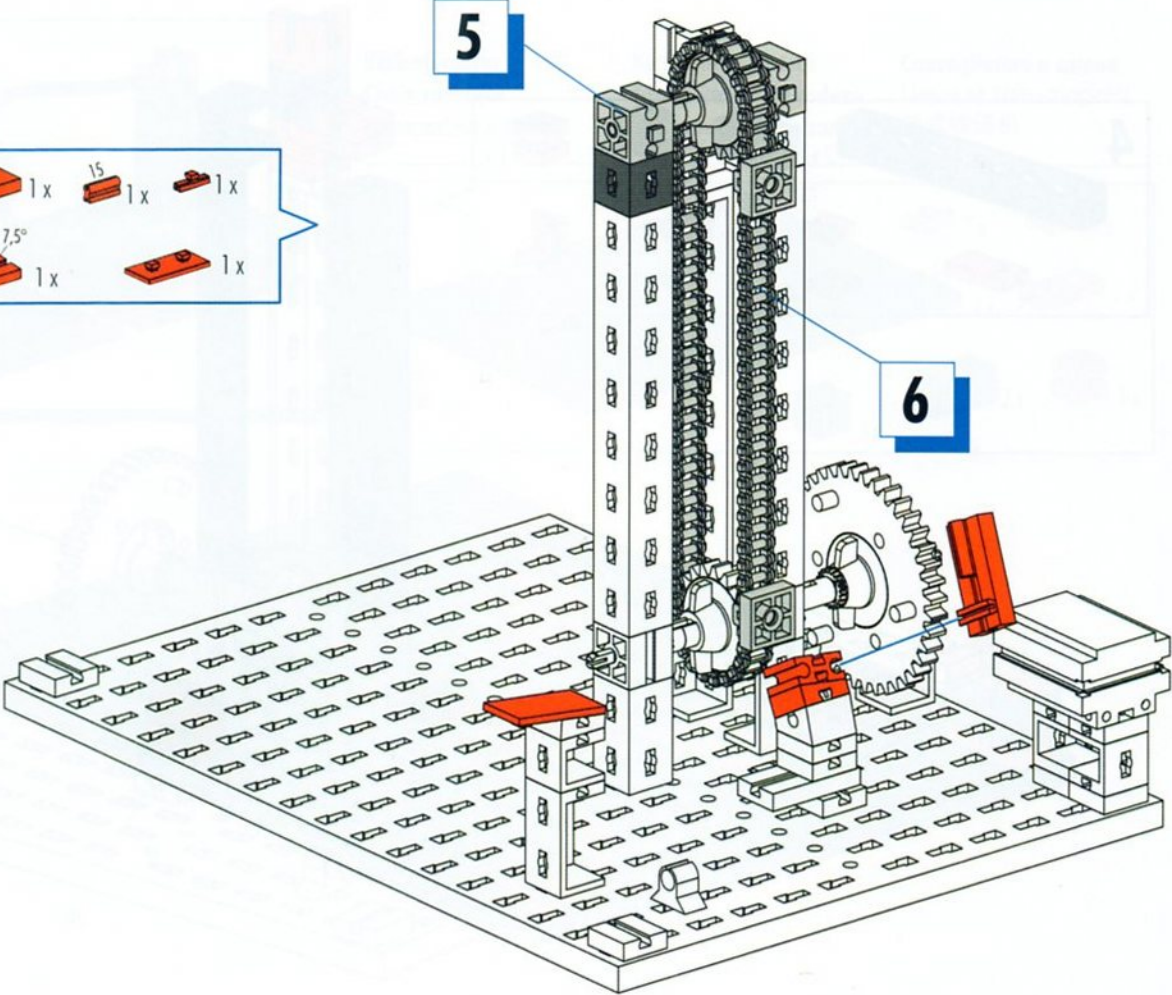


- 5**
- 2 x 1-hole red Technic bush
  - 1 x 1-hole red Technic bush
  - 2 x 1-hole black Technic bush
  - 2 x 1-hole red Technic bush
  - 1 x 60 mm black Technic axle
  - 1 x red Technic bush
  - 1 x red Technic bush
  - 1 x grey gear
- 60 mm

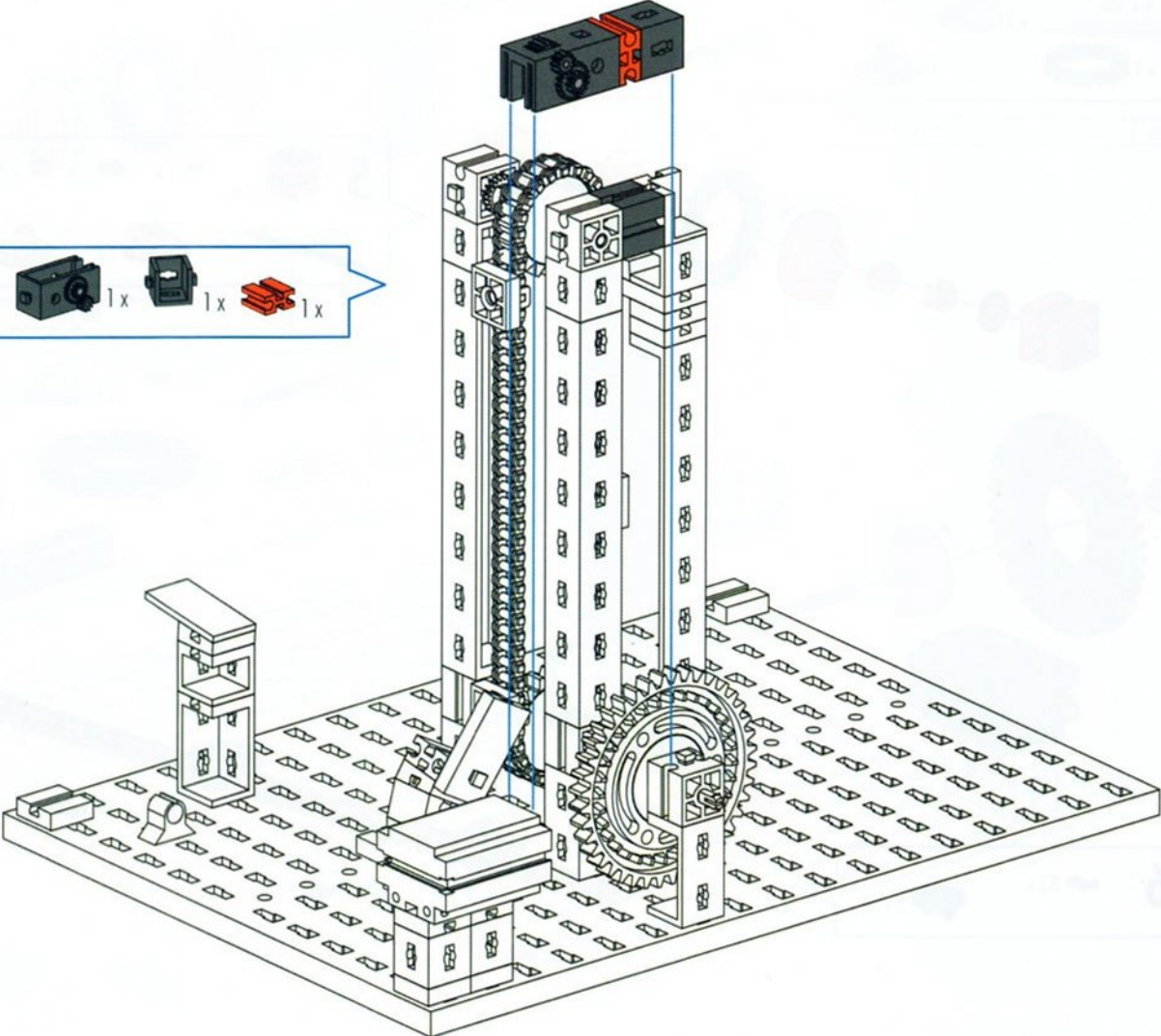
- 6**
- 83 x red Technic bush
  - 3 x 1-hole black Technic bush

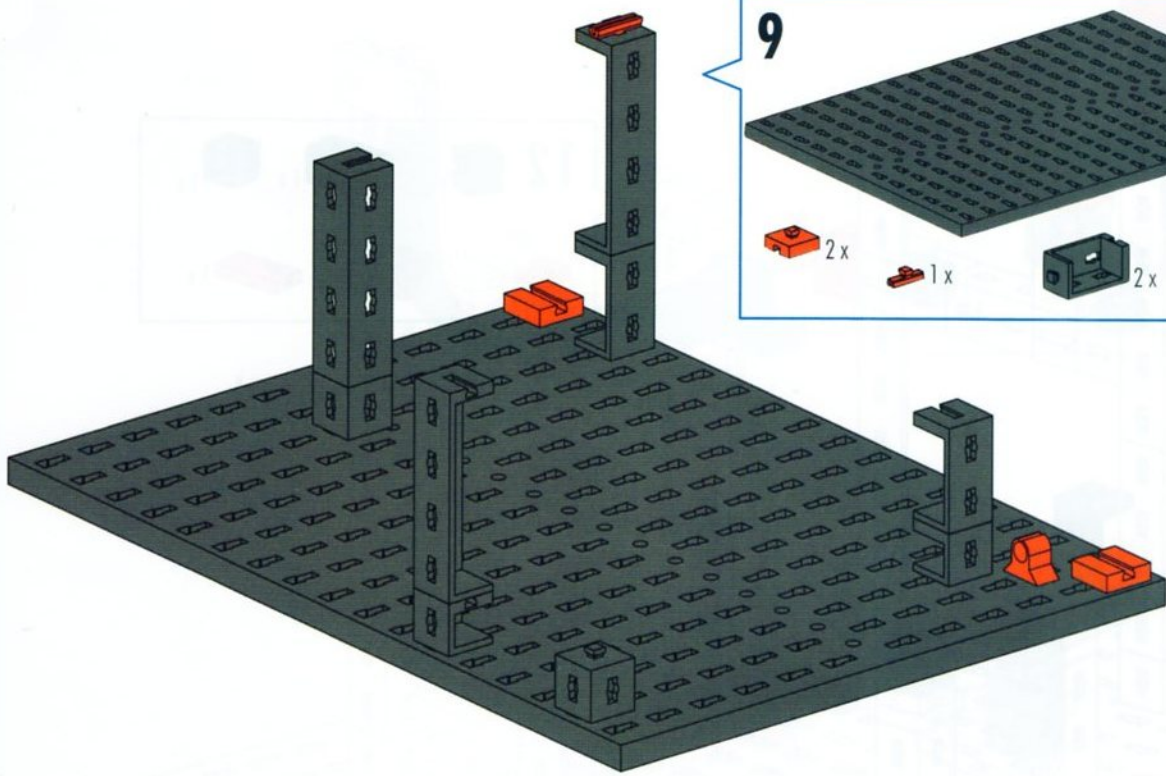


- 7**
- 1x [Grey Technic Axle Connector]
  - 1x [Red Technic Beam 1x5]
  - 15 [Red Technic Pin Long]
  - 1x [Red Technic Pin Short]
  - 1x [Red Technic Pin 7.5°]
  - 1x [Red Technic Beam 1x3]



- 8**
- 1x [Grey Technic Axle Connector]
  - 1x [Grey Technic Axle Connector]
  - 1x [Grey Technic Axle Connector]
  - 1x [Red Technic Beam 1x3]



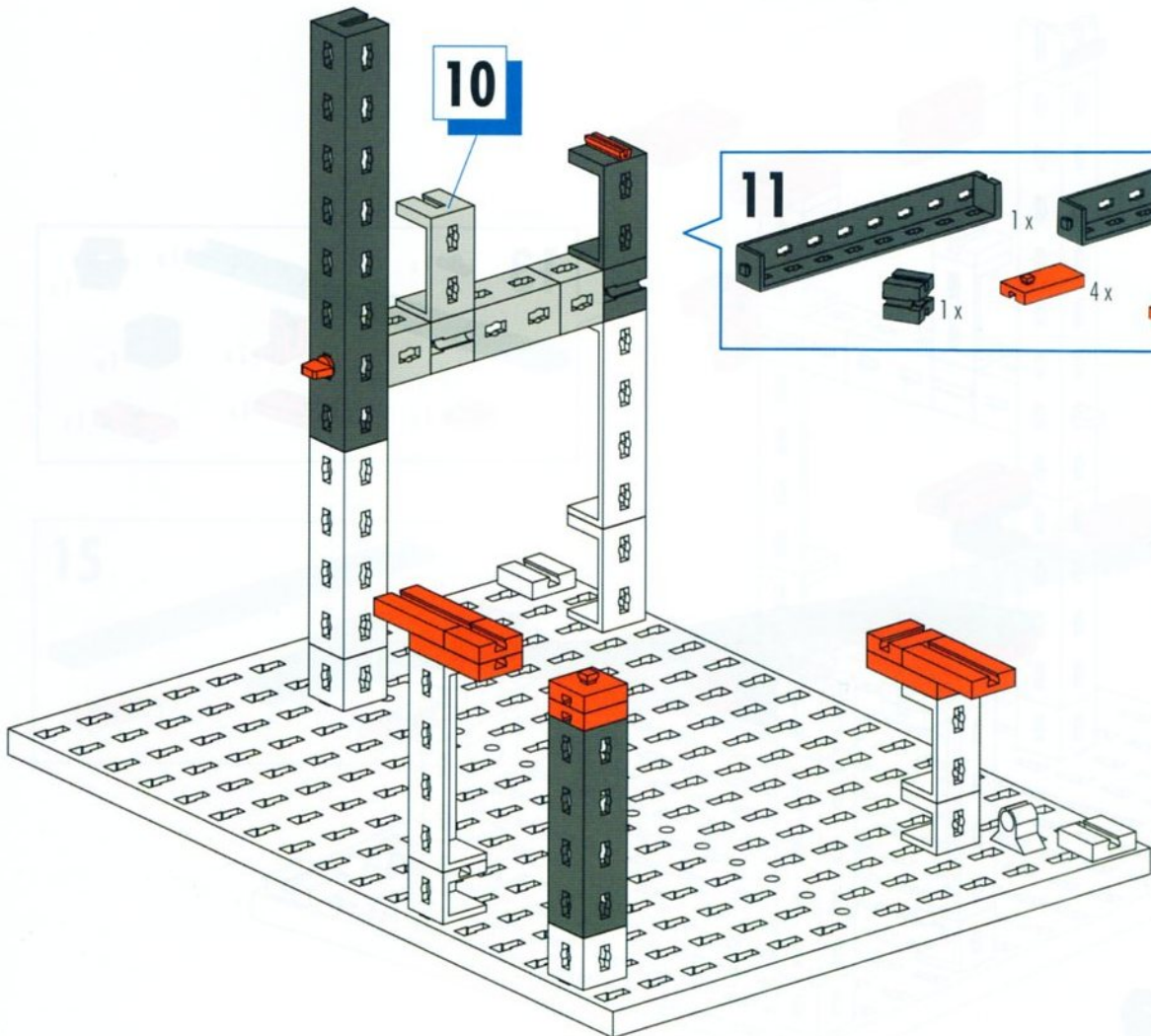
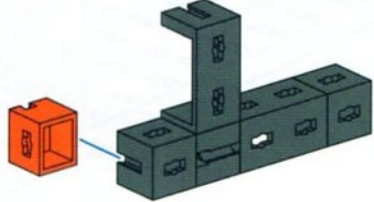


**9**

- 1x 1x12 dark grey Technic plate
- 1x orange 1x2 Technic connector
- 2x orange 1x2 Technic connector
- 1x orange 1x2 Technic connector
- 3x dark grey 1x2 Technic connector
- 1x dark grey 1x2 Technic connector
- 2x dark grey 1x2 Technic connector
- 3x dark grey 1x4 Technic connector

**10**

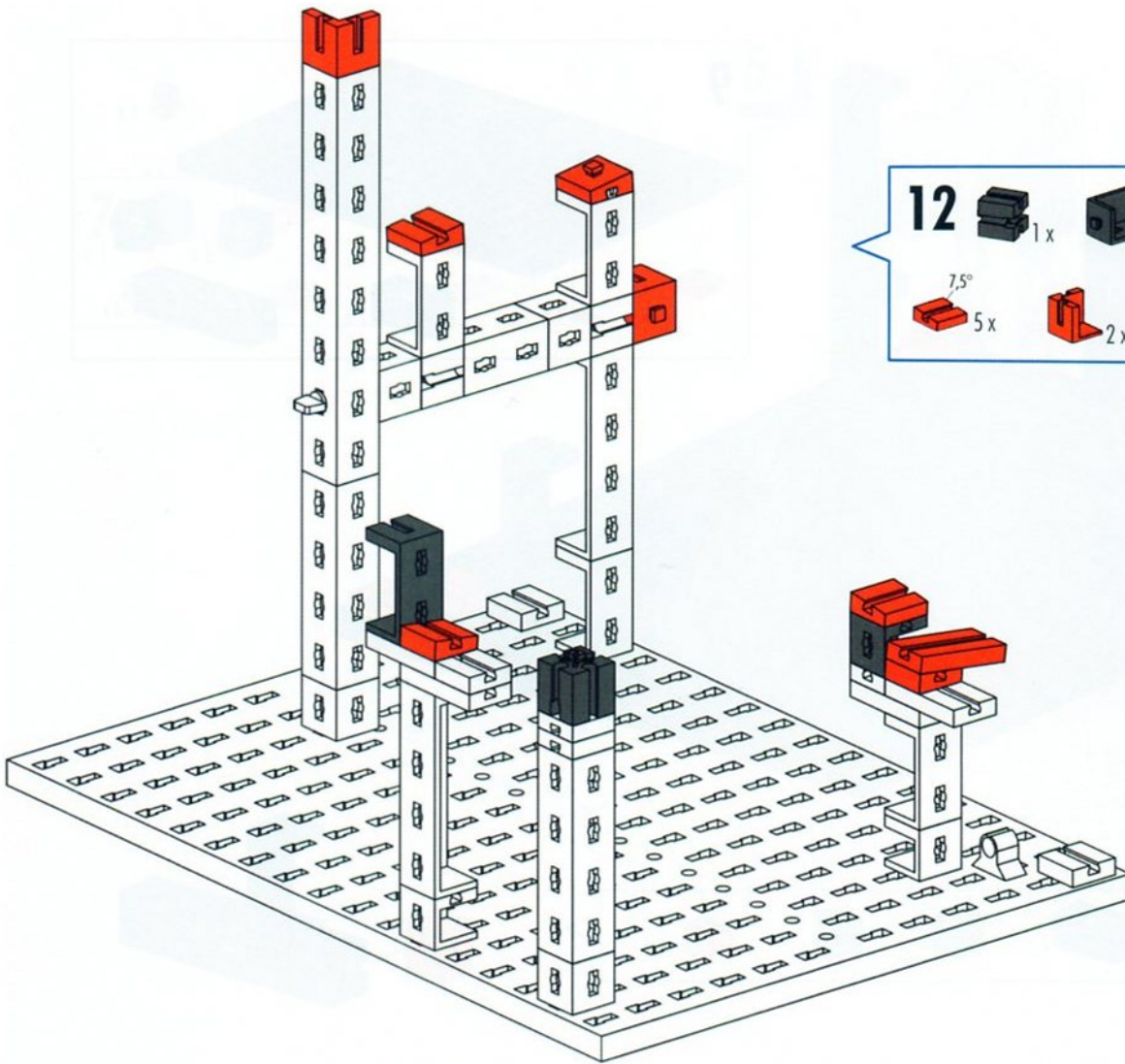
- 2x dark grey 1x2 Technic connector
- 2x dark grey 1x2 Technic connector
- 1x dark grey 1x2 Technic connector
- 1x orange 1x2 Technic connector



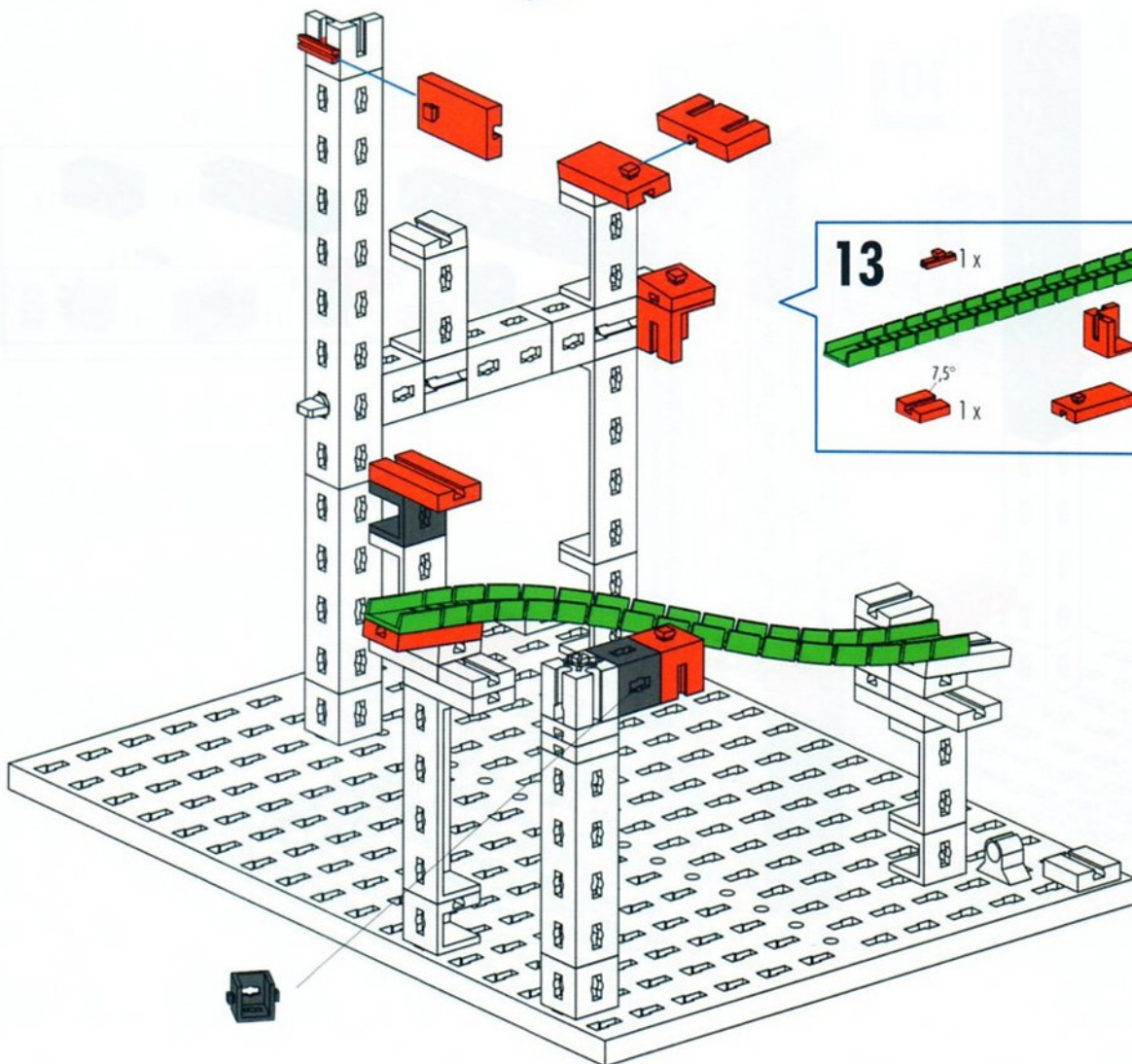
**10**

**11**

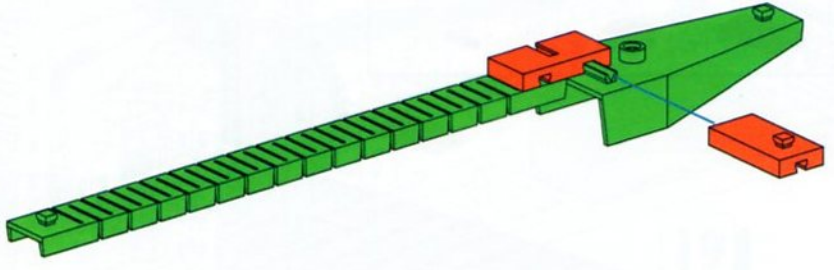
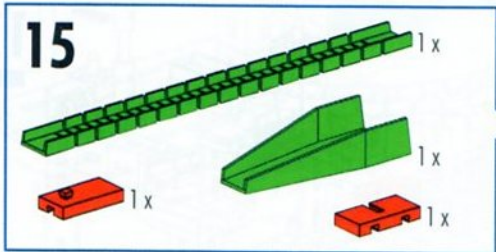
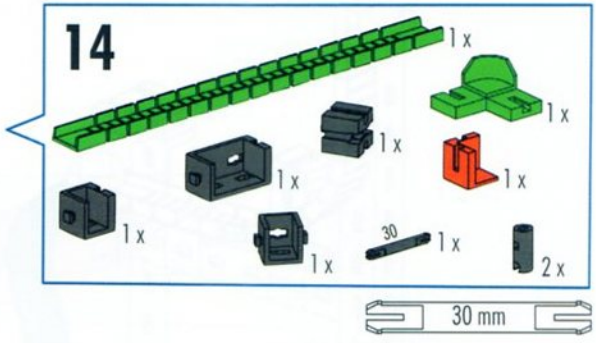
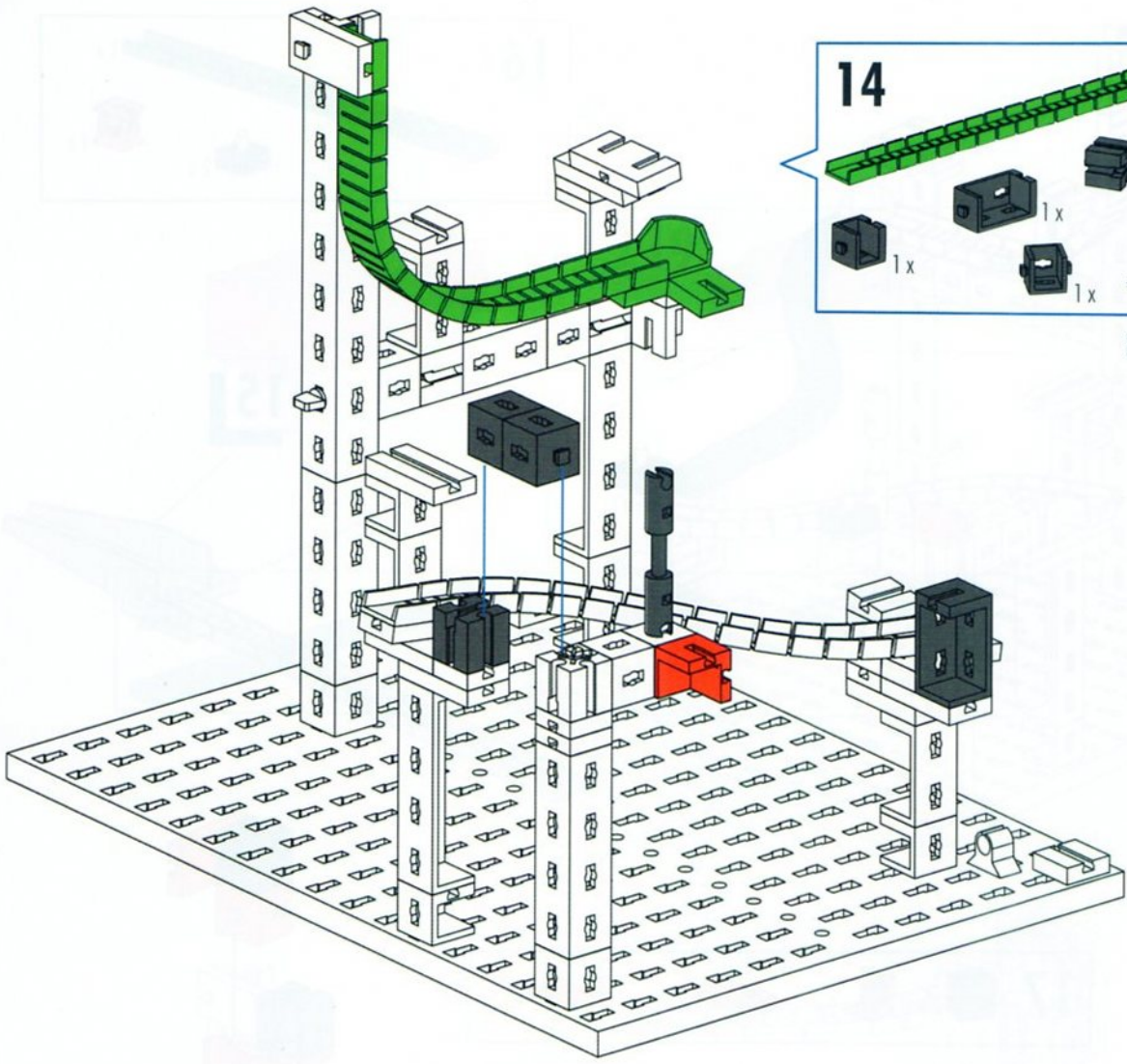
- 1x dark grey 1x12 Technic plate
- 1x dark grey 1x4 Technic connector
- 1x dark grey 1x2 Technic connector
- 1x dark grey 1x2 Technic connector
- 1x dark grey 1x2 Technic connector
- 1x dark grey 1x2 Technic connector
- 4x orange 1x2 Technic connector
- 4x orange 1x2 Technic connector
- 1x orange 1x2 Technic connector
- 1x dark grey 1x2 Technic connector
- 1x dark grey 1x2 Technic connector

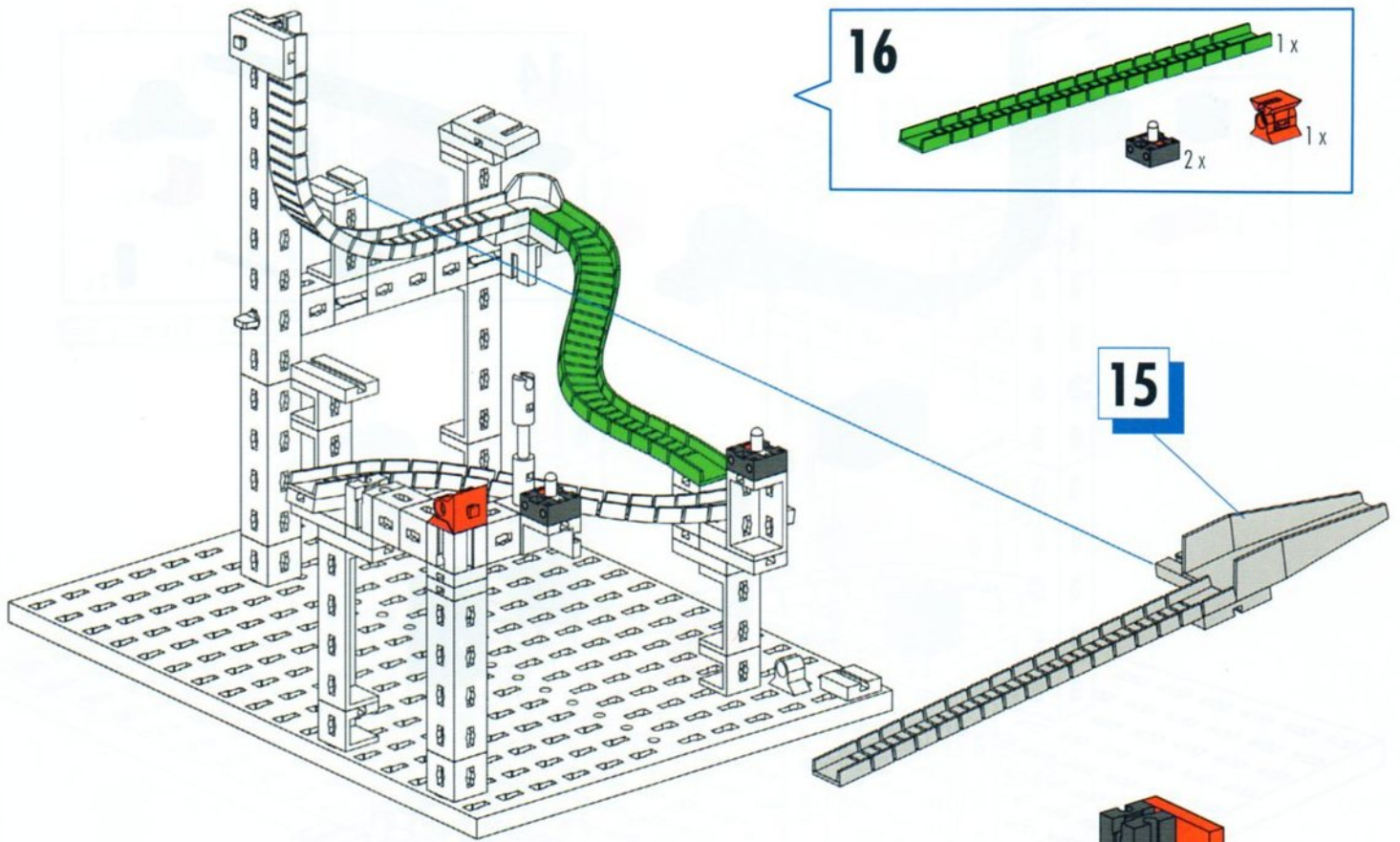


- 12**
- 1x Black Technic Connector
  - 1x Black Technic Connector
  - 1x Black Technic Connector
  - 5x Red Technic Connector (7.5°)
  - 2x Red Technic Connector
  - 1x Red Technic Connector

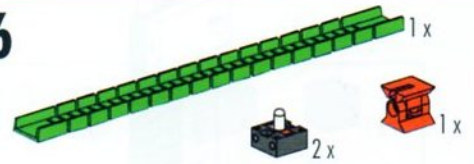


- 13**
- 1x Red Technic Connector
  - 1x Green Technic Beam
  - 1x Black Technic Connector
  - 1x Red Technic Connector (7.5°)
  - 2x Red Technic Connector
  - 1x Black Technic Connector
  - 1x Red Technic Connector (7.5°)
  - 4x Red Technic Connector
  - 1x Red Technic Connector

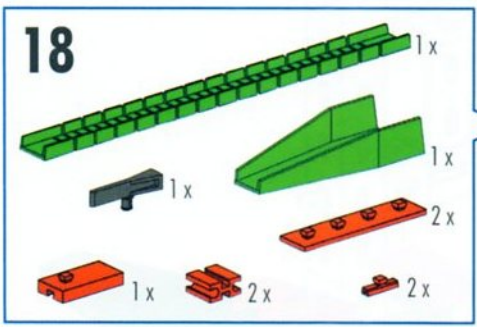
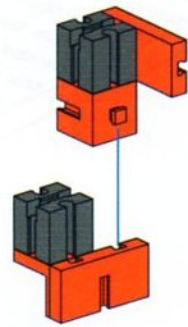




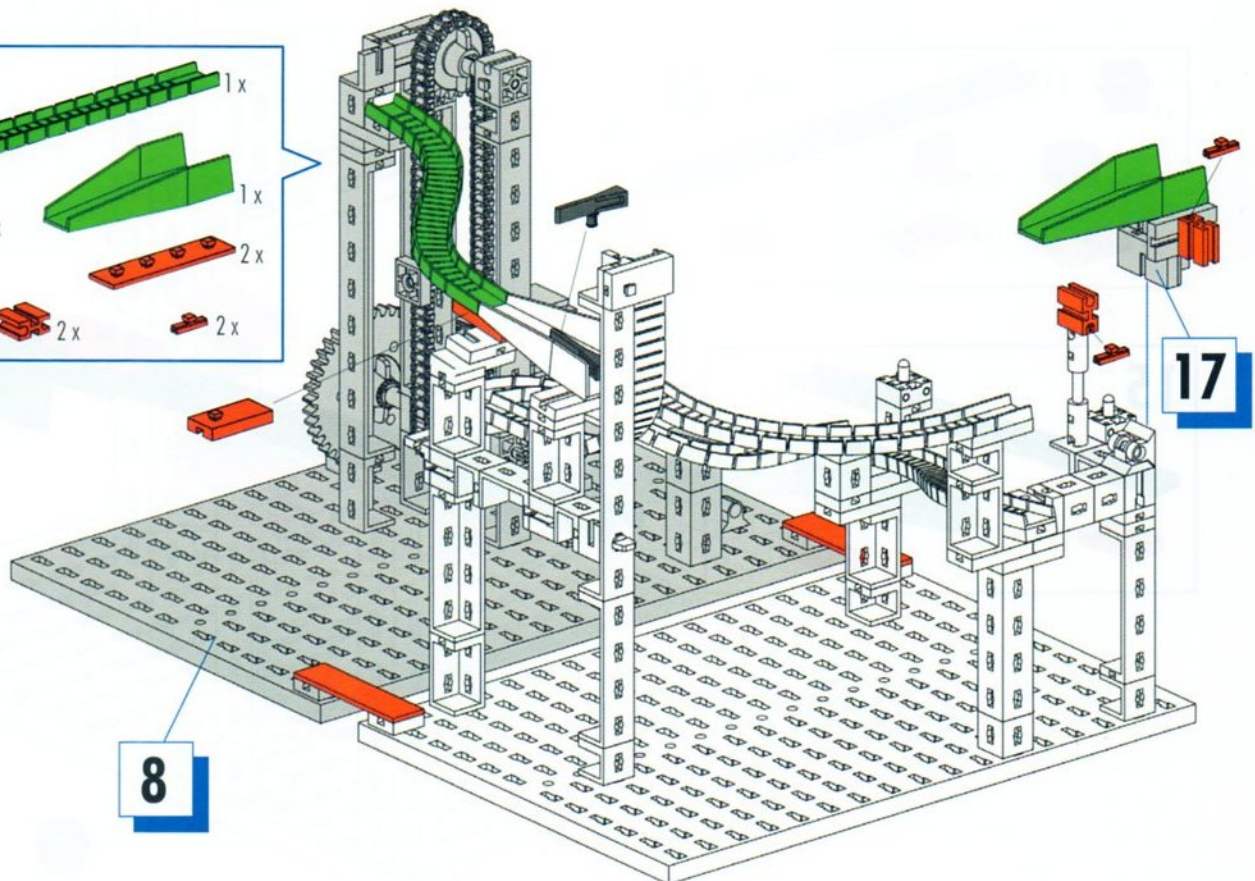
**16**



**15**

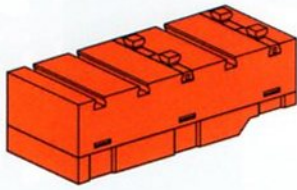


**18**

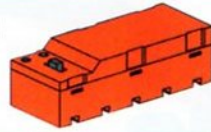


**17**

**8**



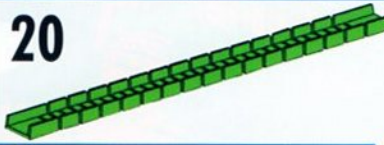
19



1x

4x

20



1x



1x



1x



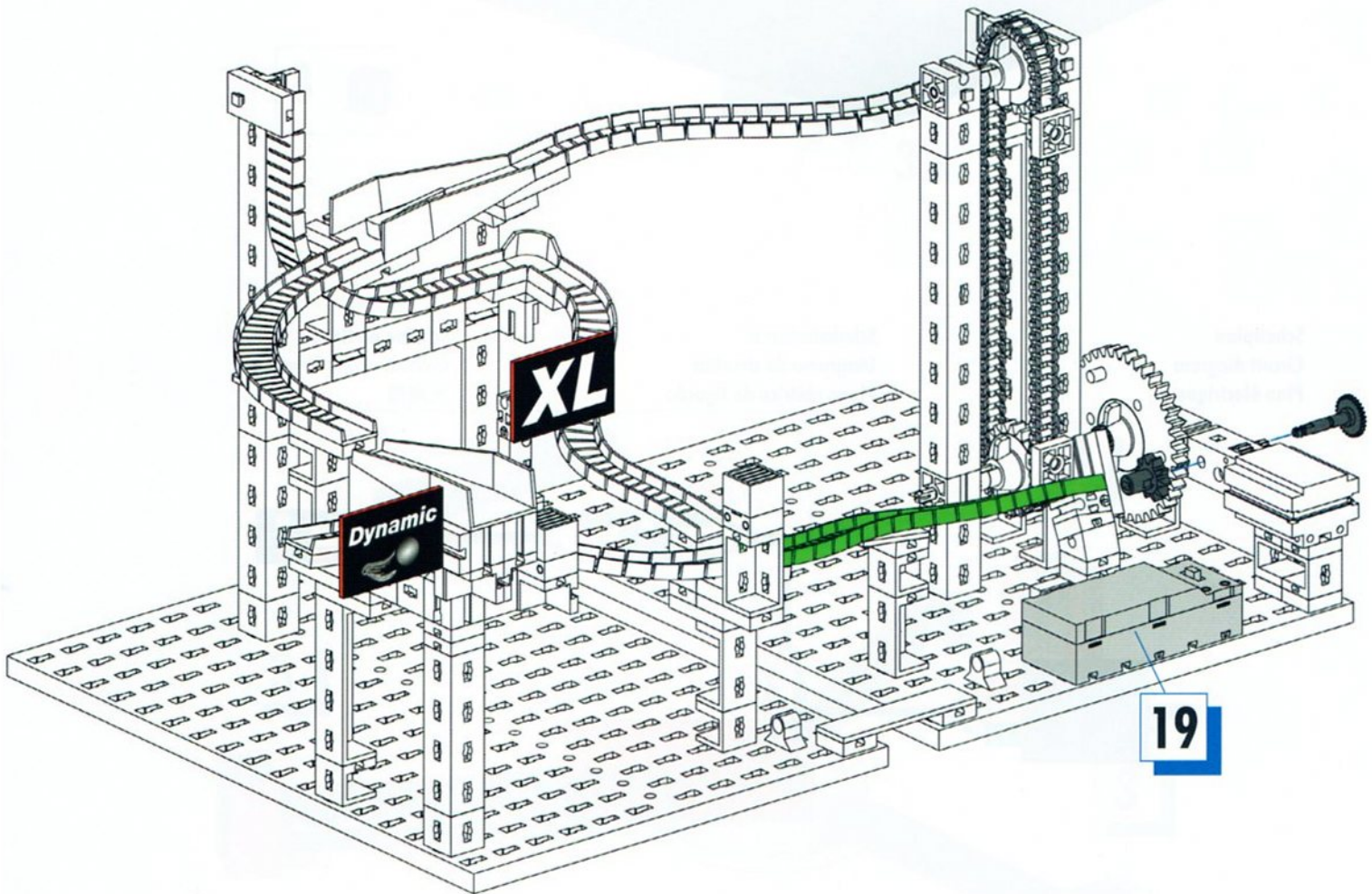
1x



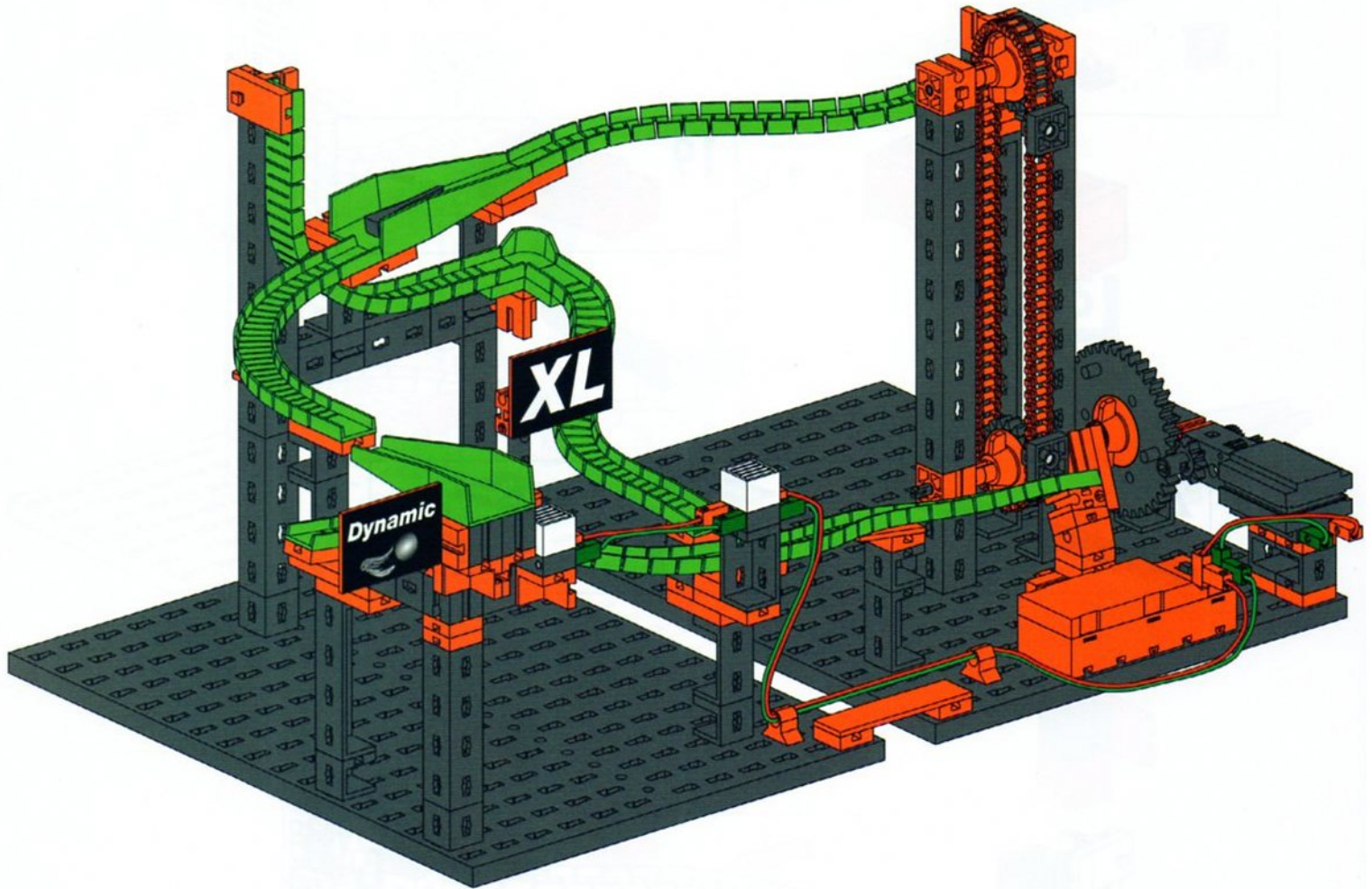
1x



2x



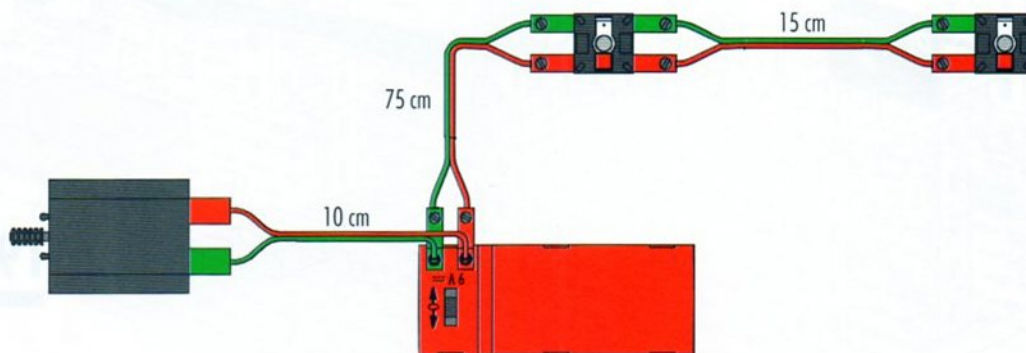
19



Schaltplan  
Circuit diagram  
Plan électrique

Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图



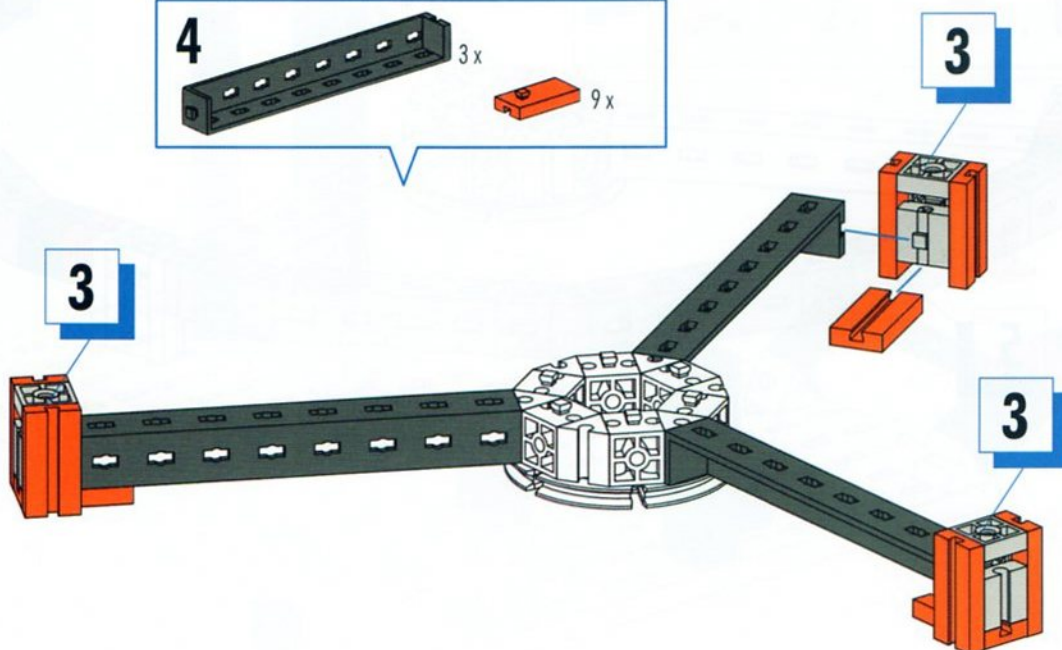
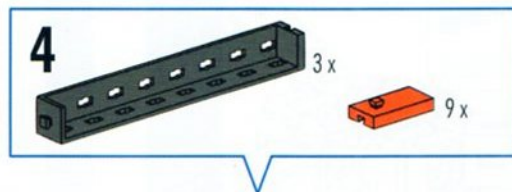
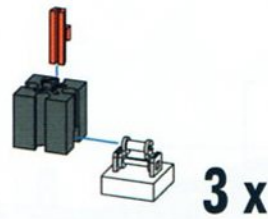
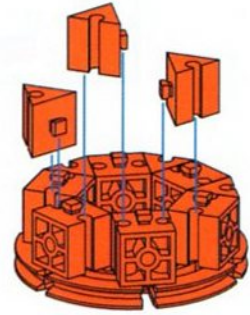
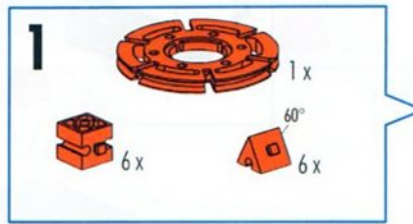






Radförderer  
Wheel conveyor  
Transporteur à roue



Wieltransporteur  
Transportador de ruedas  
Transportadora de roda

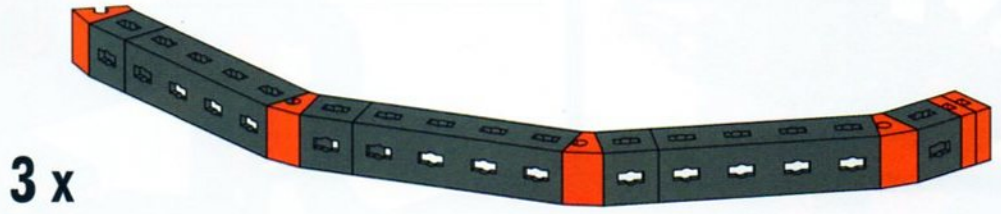
Convogliatore a ruota  
Роторный транспортёр  
斗轮输送机



**5**

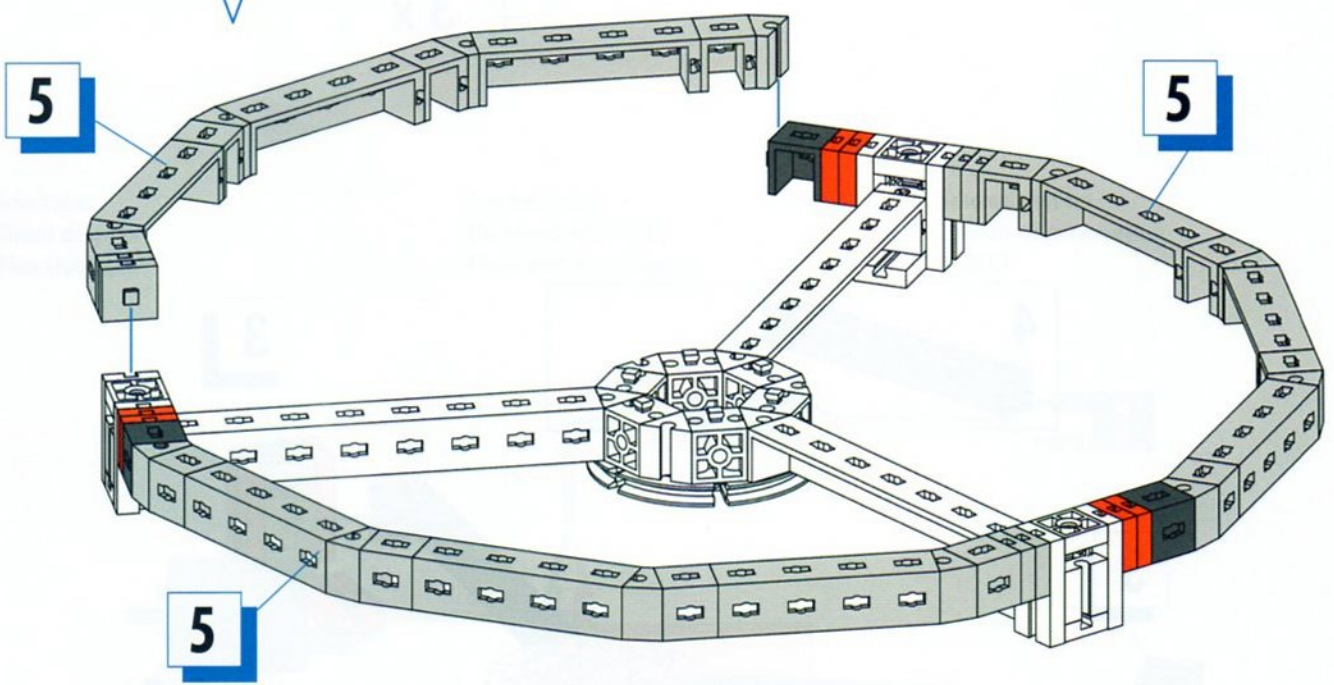
9 x  30°  12 x

 12 x  6 x

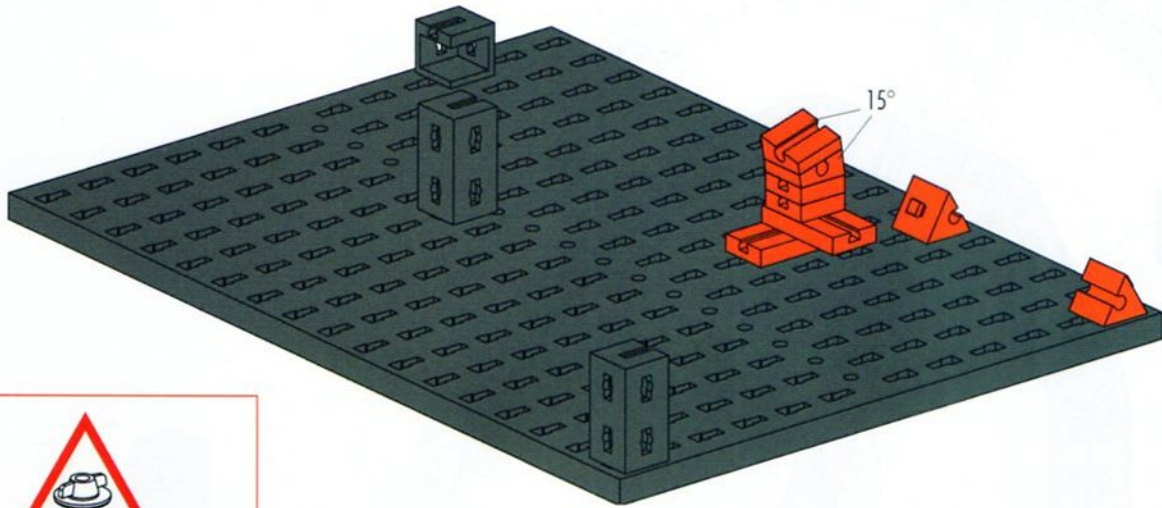
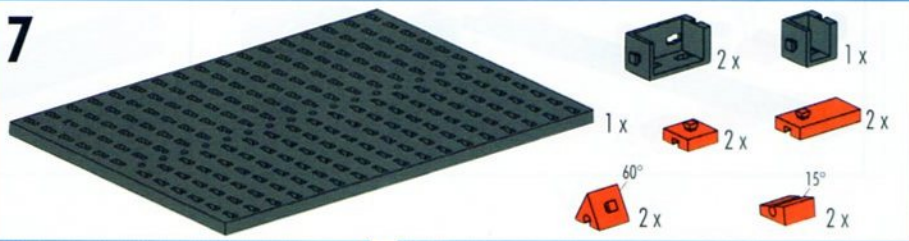


**6**

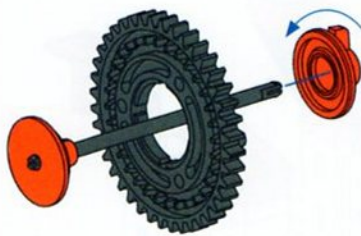
 3 x  6 x



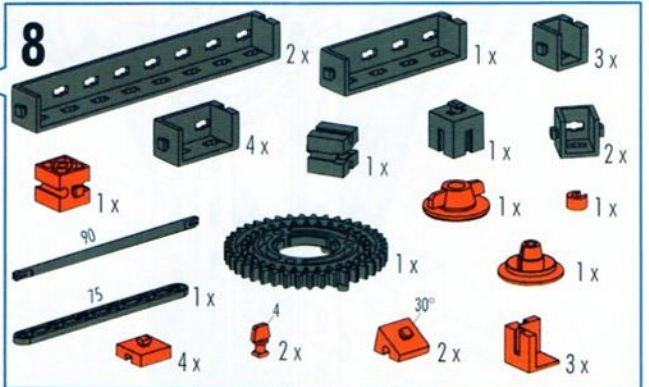
# 7



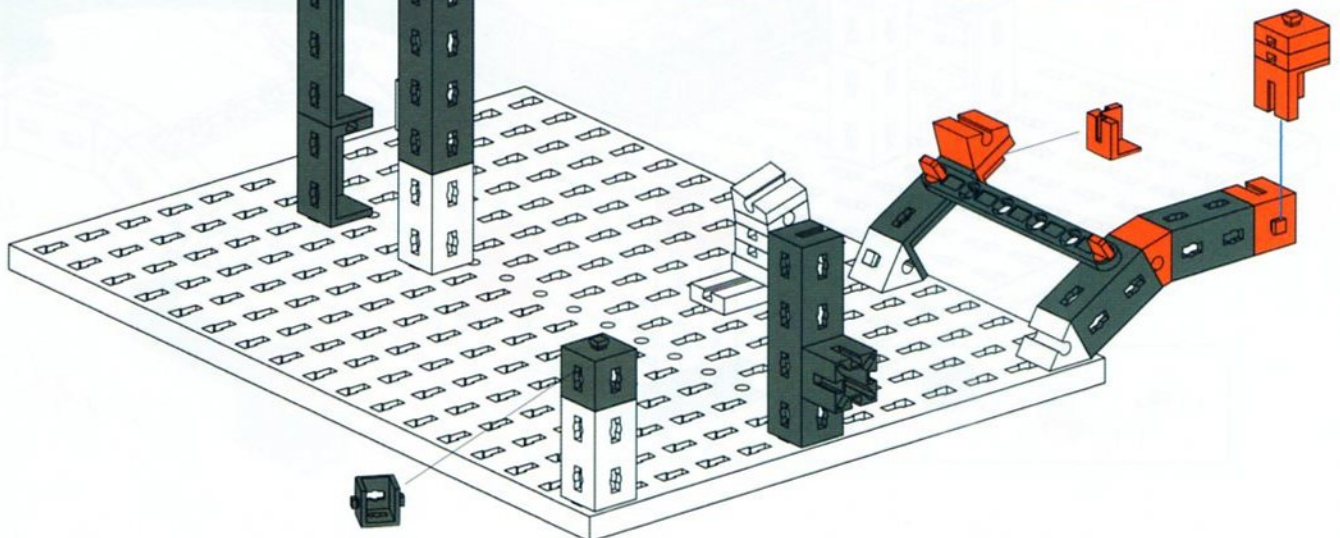
- Nabenmuttern festdrehen
- Fasten the hub nuts home
- Serrer les écrous de moyeu
- Draai de naafmoeren vast
- Atornillar las tuercas laterales
- Apertar bem as porcas de cubo
- Stringere i dadi dei mozzi
- Затянуть гайки ступиц
- 拧紧

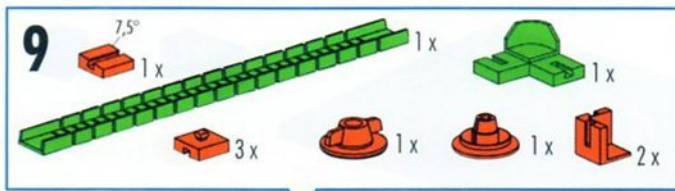


# 8

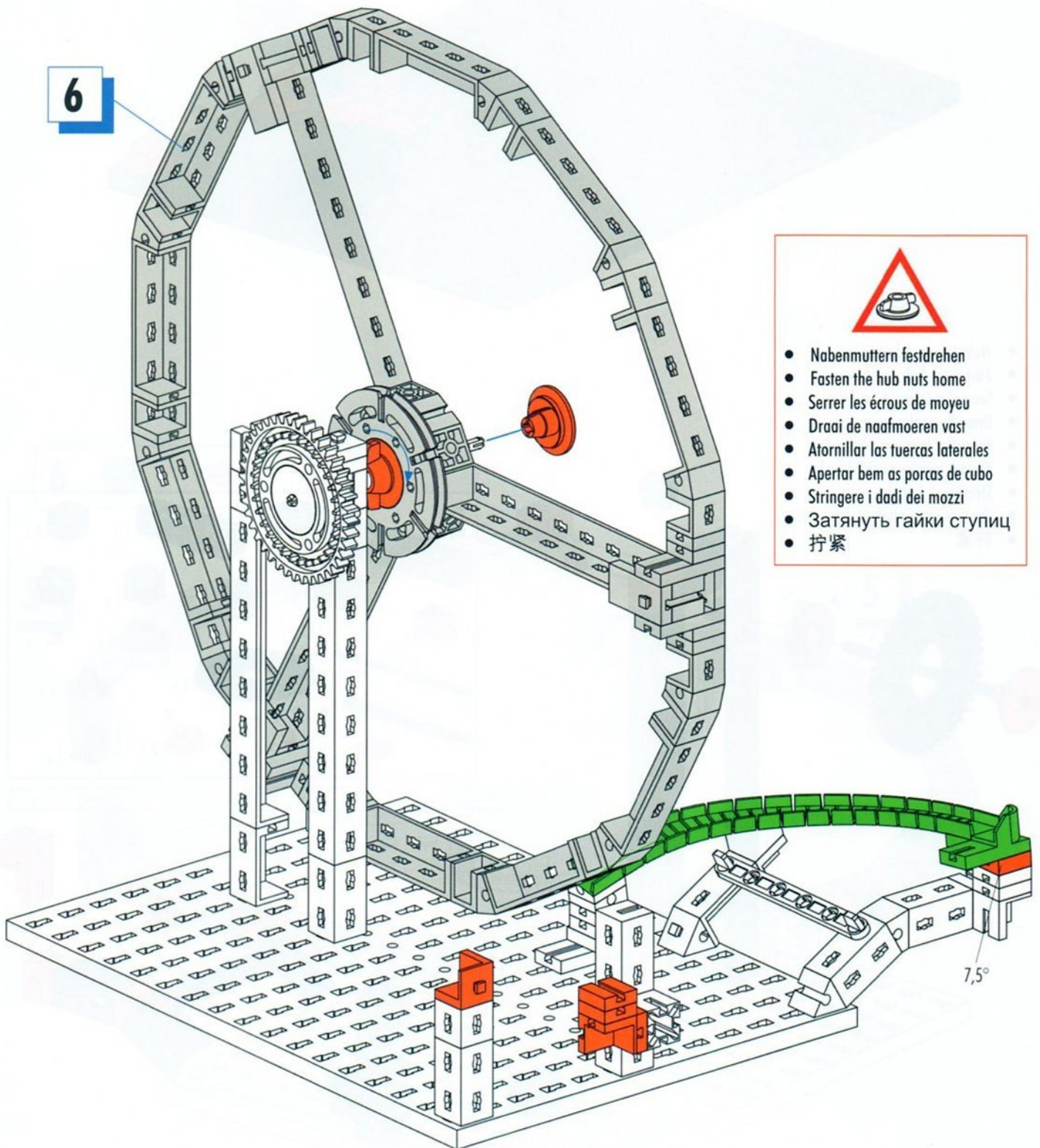


90 mm



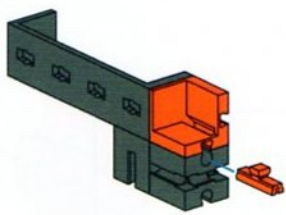
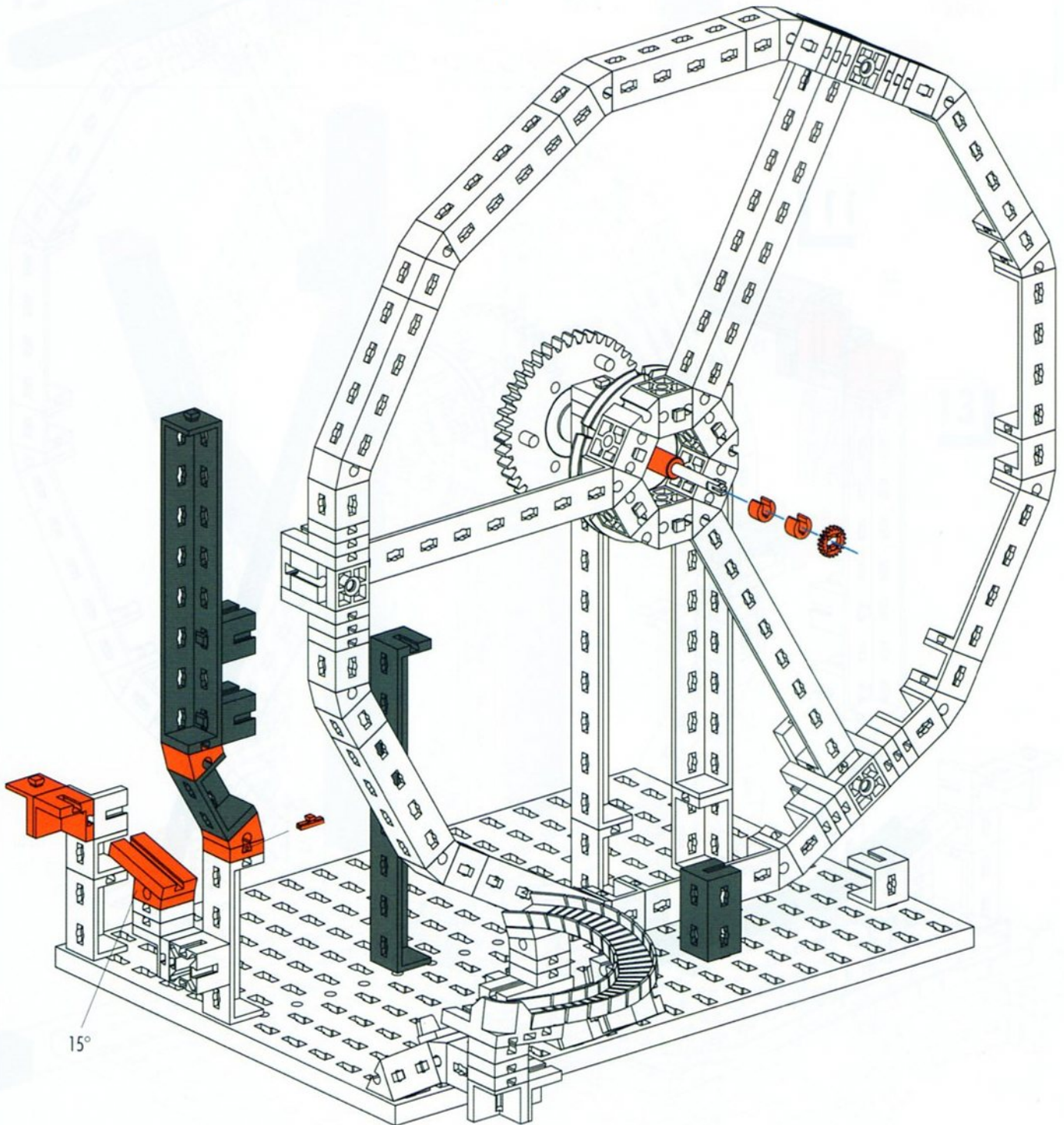
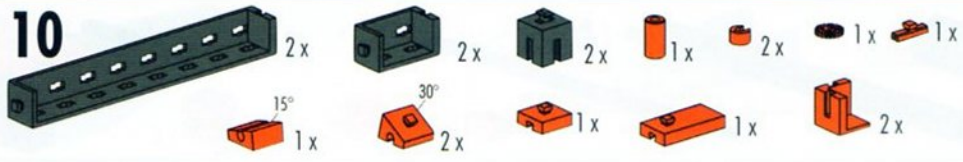


**6**



- Nabenmuttern festdrehen
- Fasten the hub nuts home
- Serrer les écrous de moyeu
- Draai de naafmoeren vast
- Atornillar las tuercas laterales
- Apertar bem as porcas de cubo
- Stringere i dadi dei mozzi
- Затянуть гайки ступиц
- 拧紧

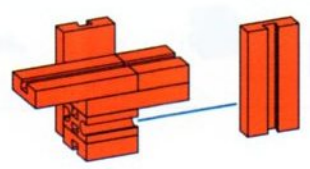
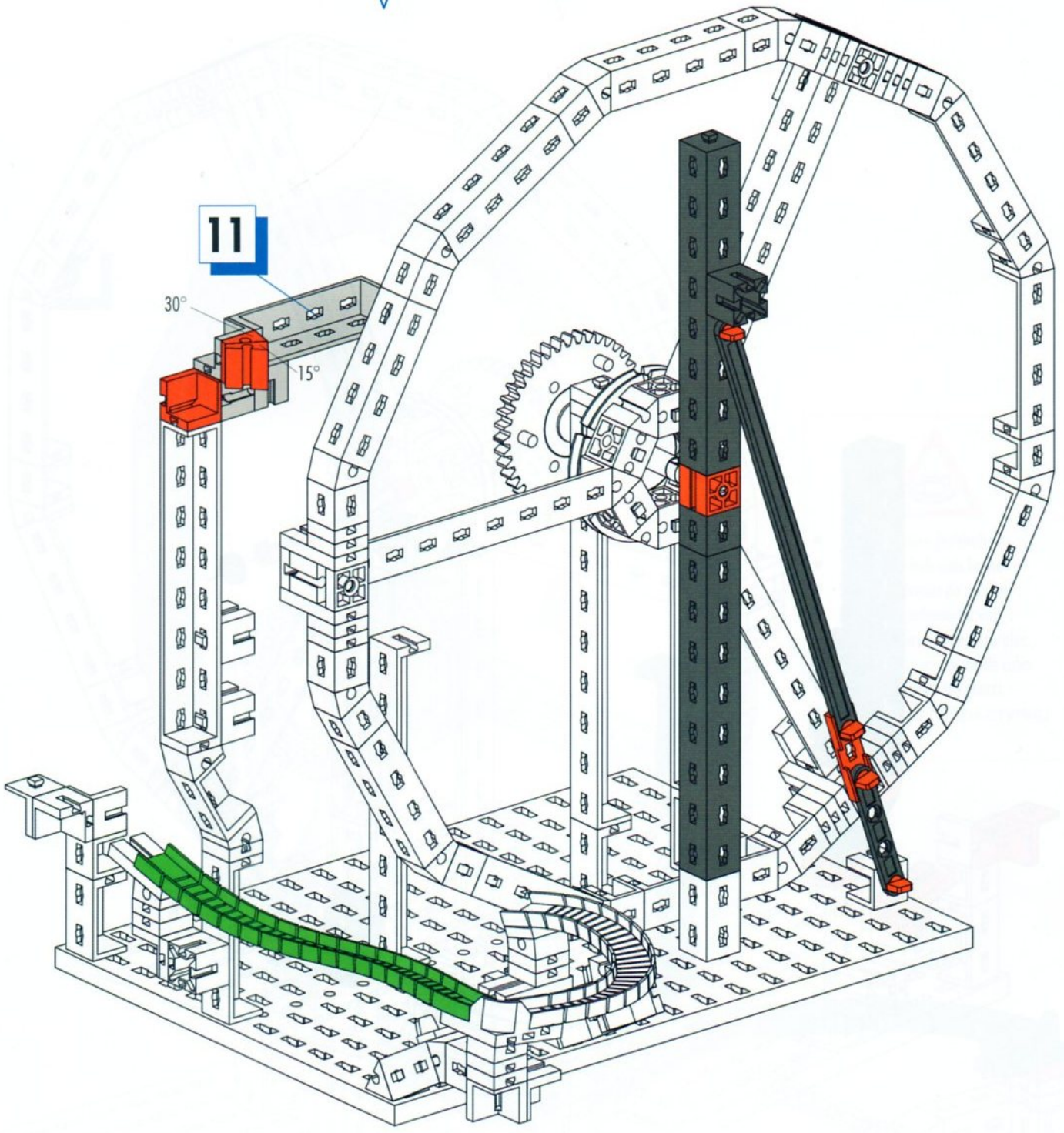
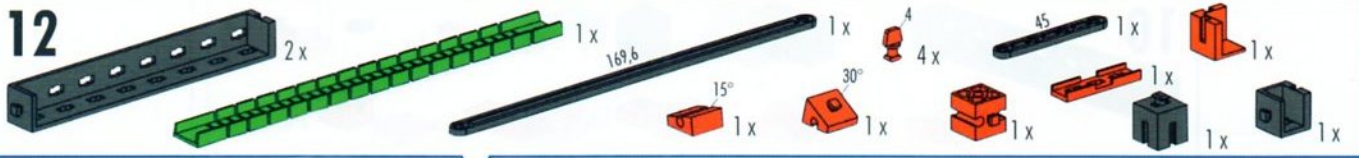
10



11

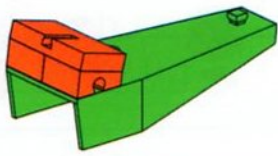


12



13

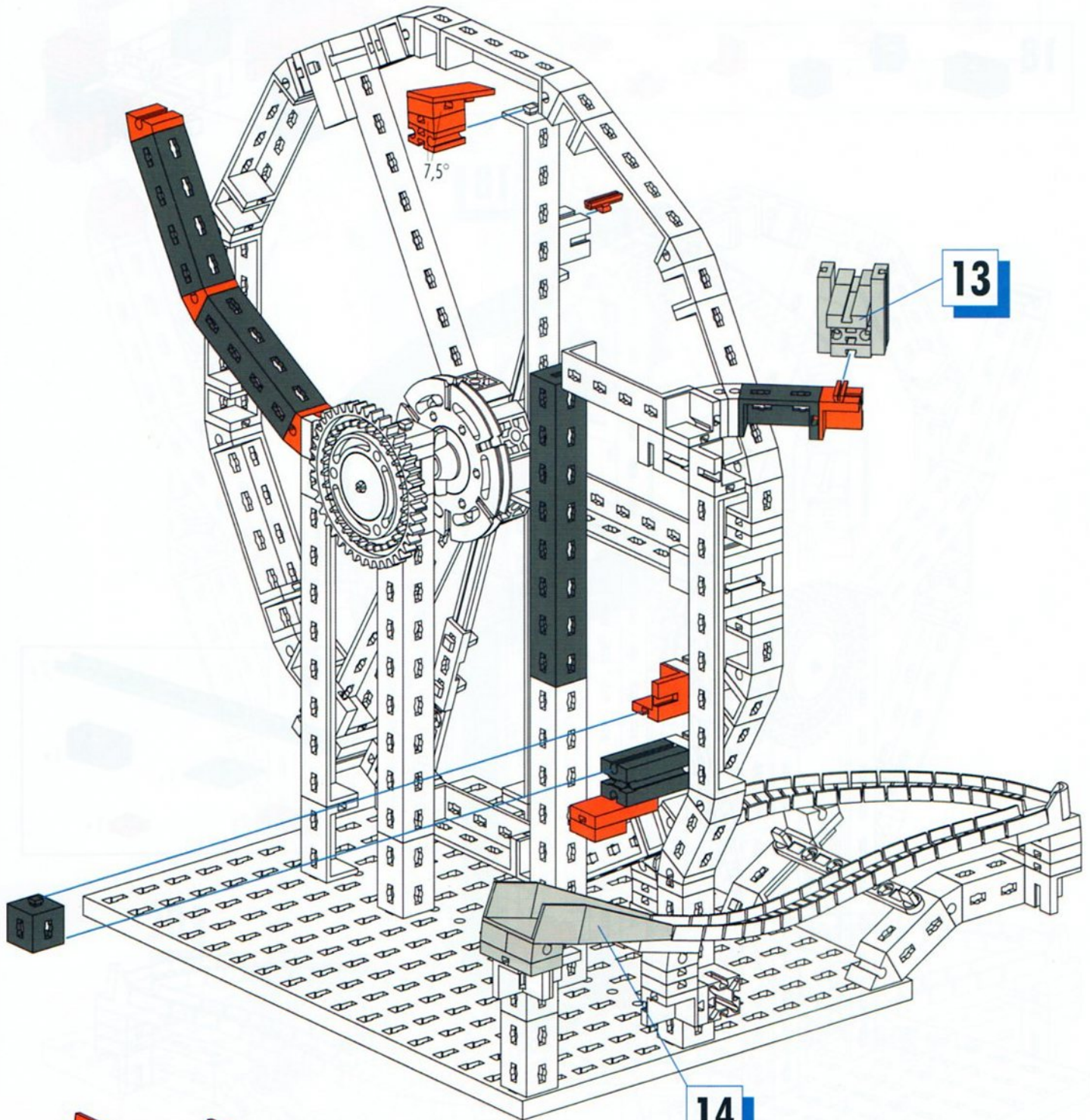
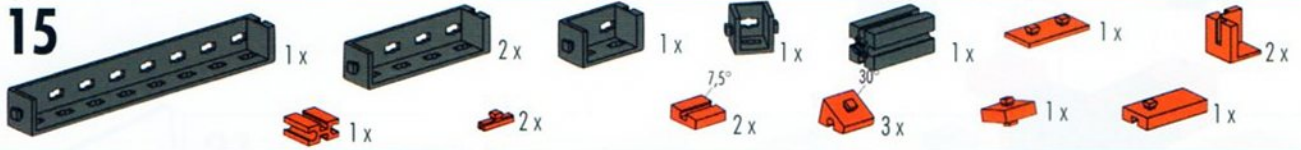




14

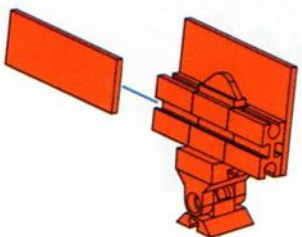


15



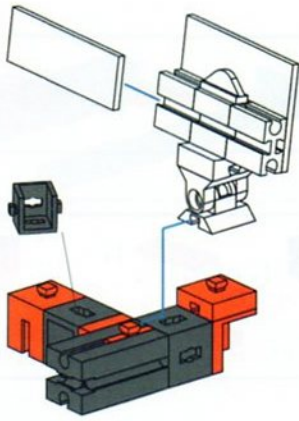
13

14



16



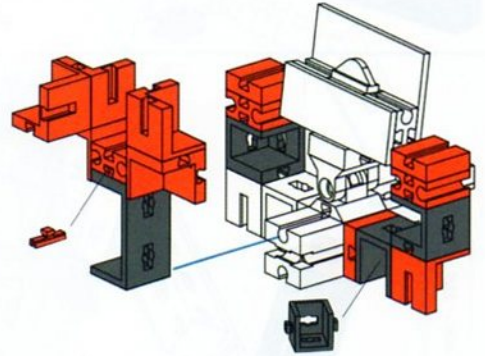


17

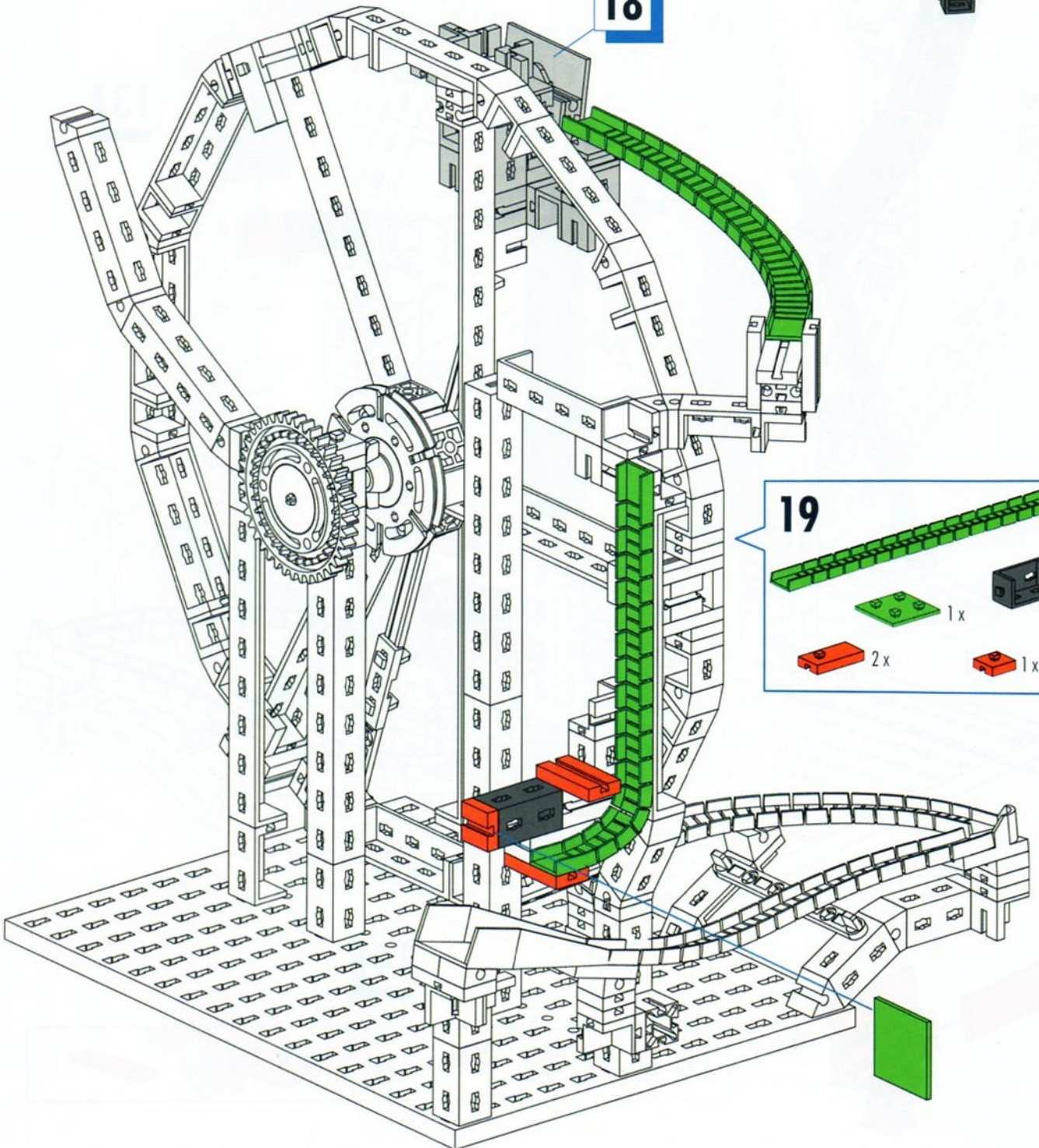
-  1x
-  1x
-  1x
-  1x
-  2x
-  2x

18






-  1x
-  1x
-  2x
-  6x
-  3x
-  3x
-  1x



18



19

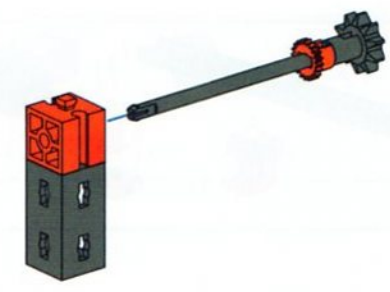
-  2x
-  1x
-  2x
-  1x
-  1x



**20**

15 1x  
 1x  
 1x  
 1x  
 1x  
 1x

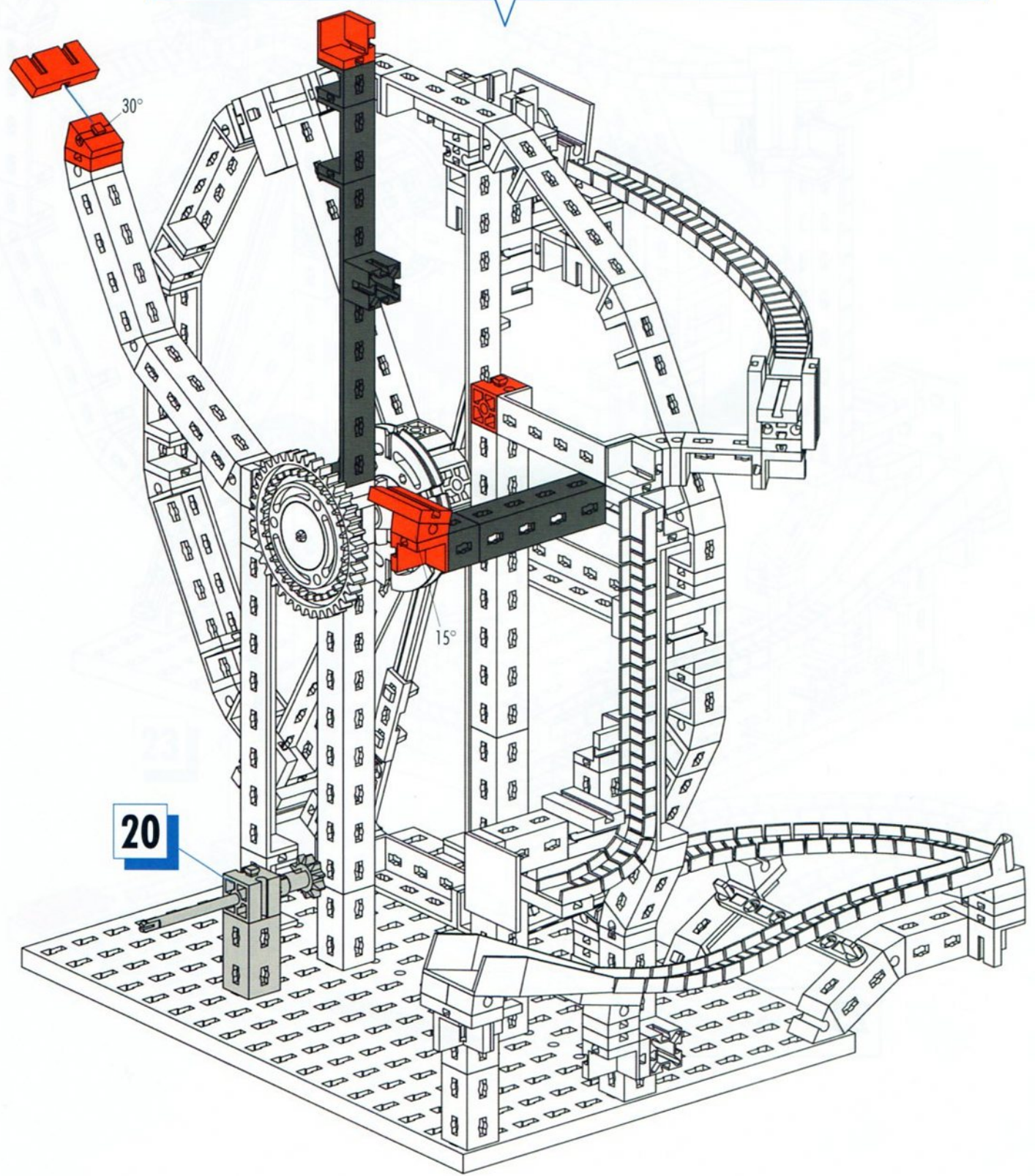
75 mm



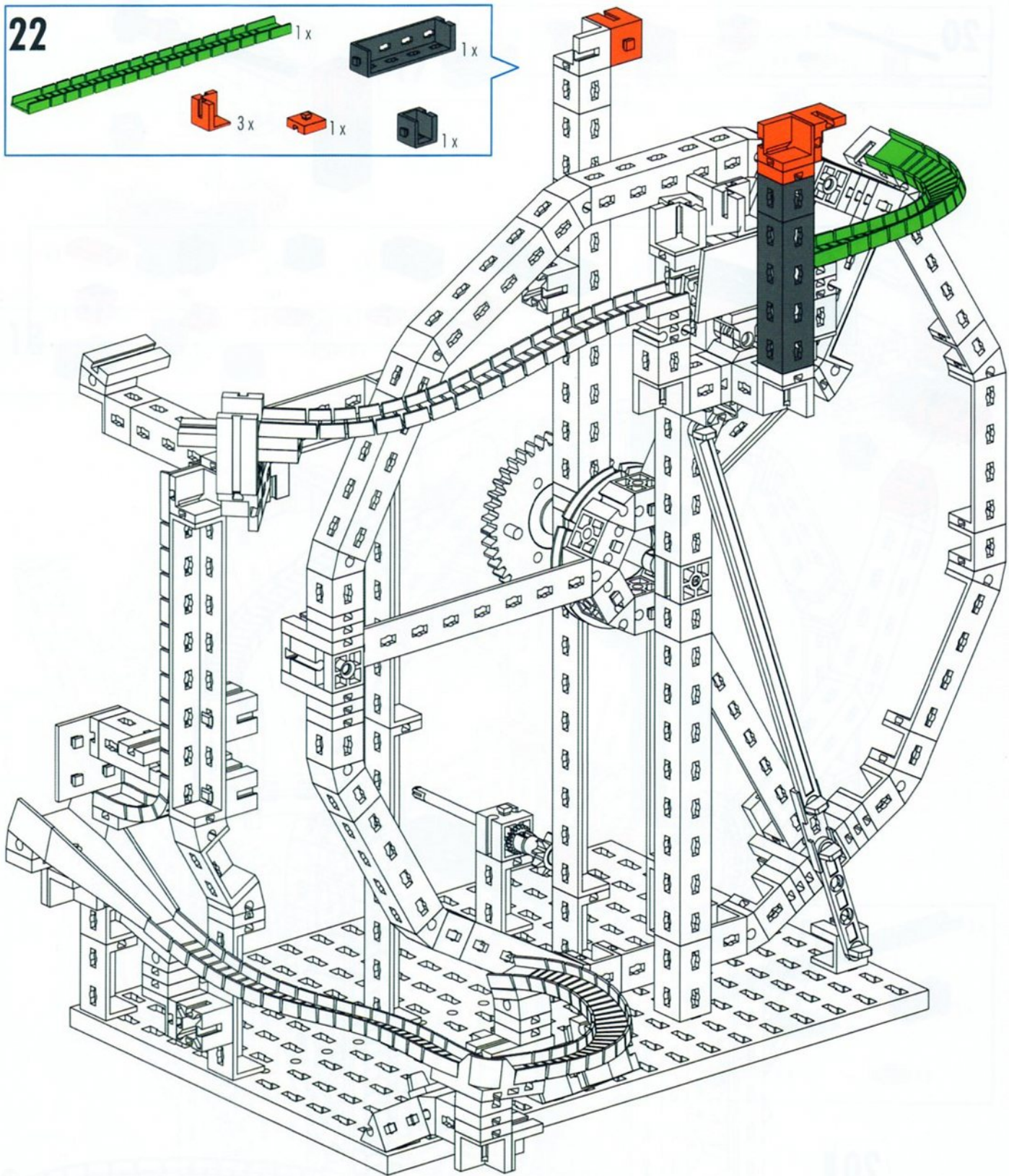
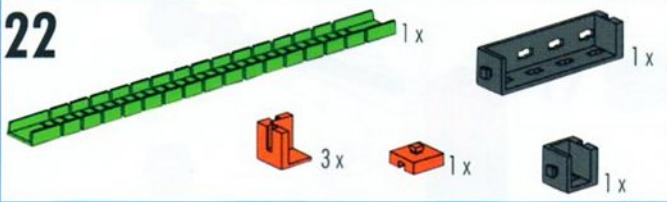
**21**

1x 1x 1x 2x 1x 1x 1x 1x 1x 1x 1x 1x 1x

15° 30°

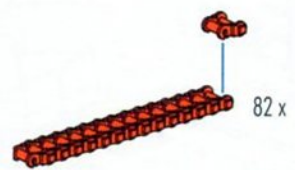


22



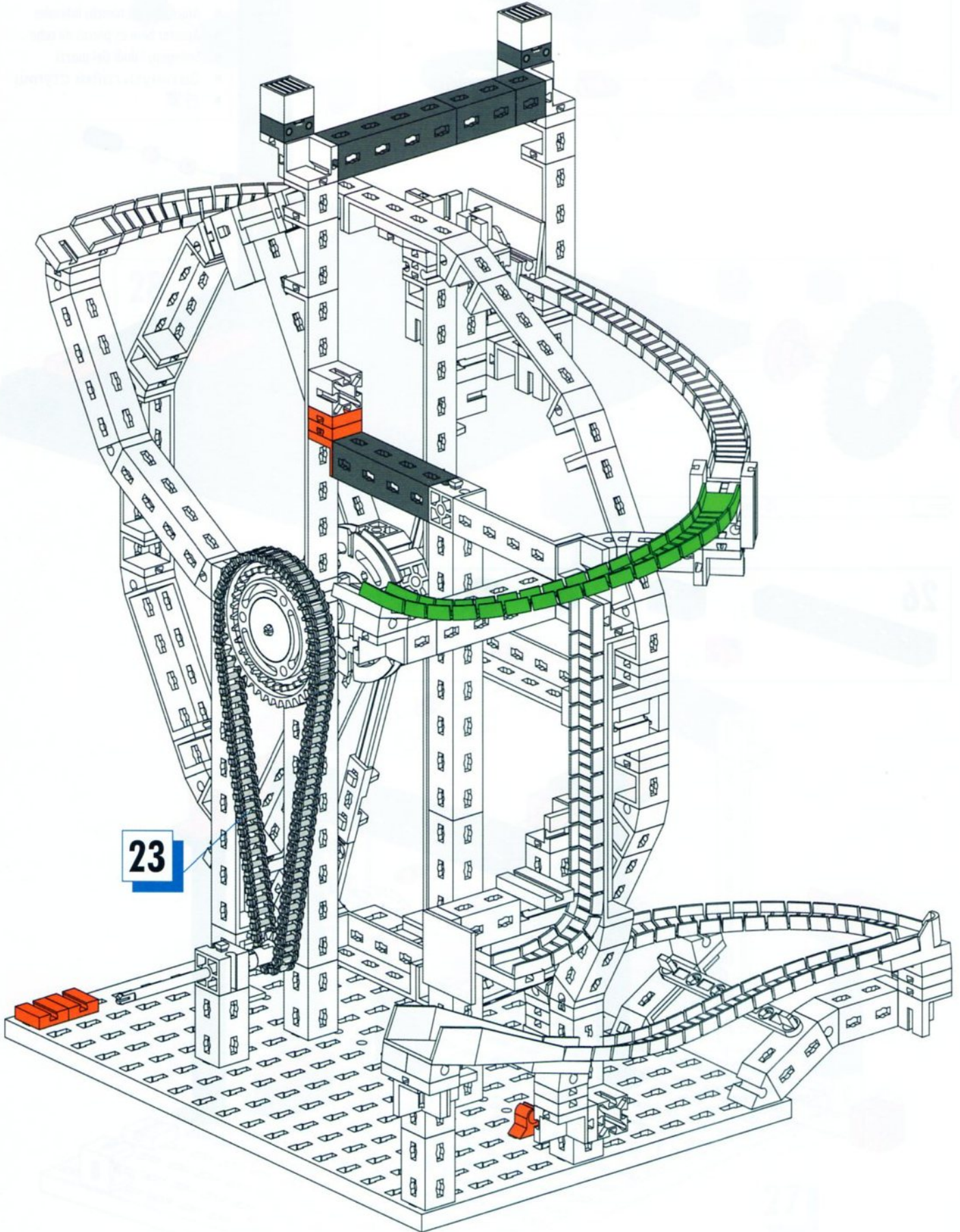
23

82x

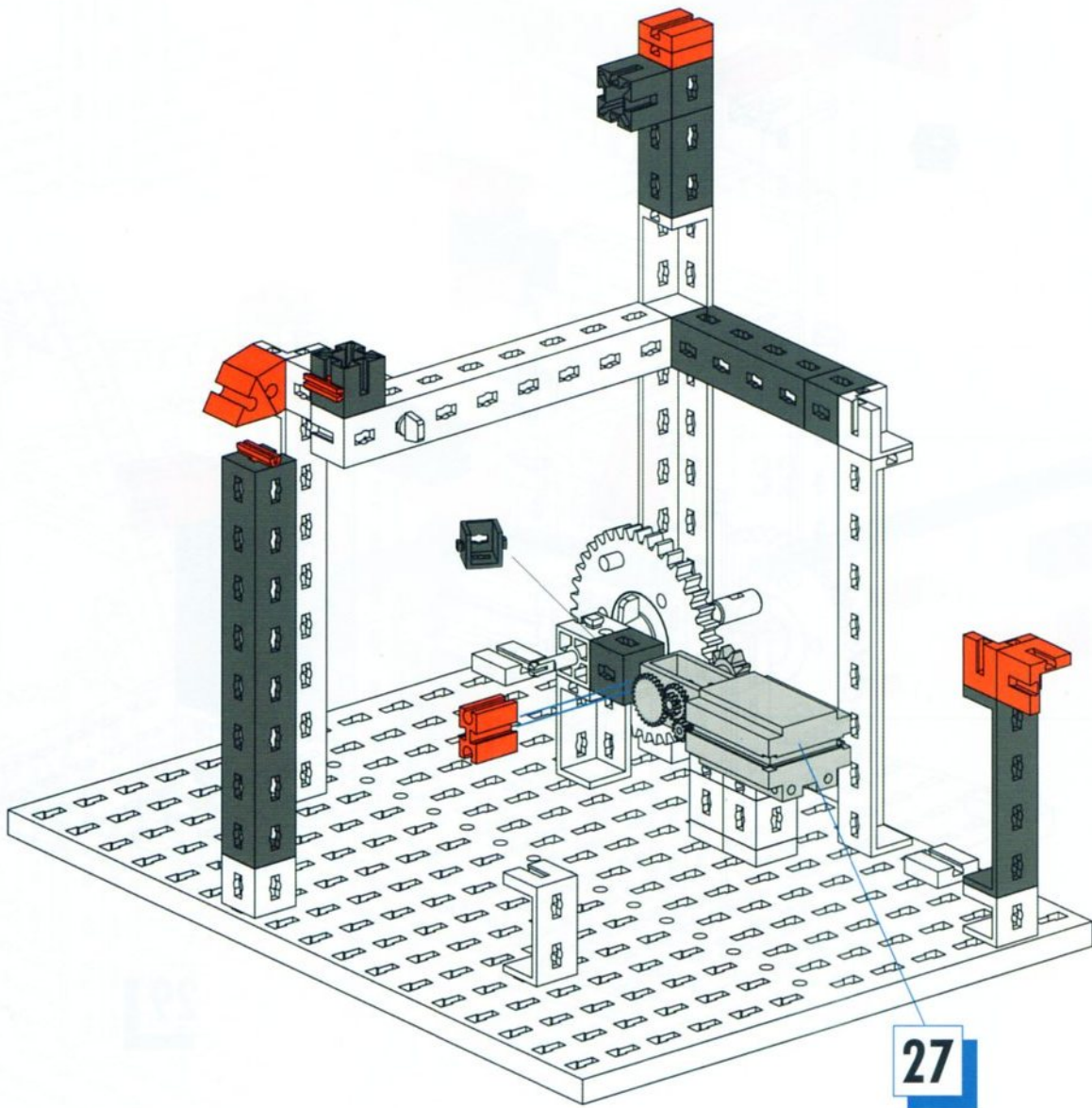
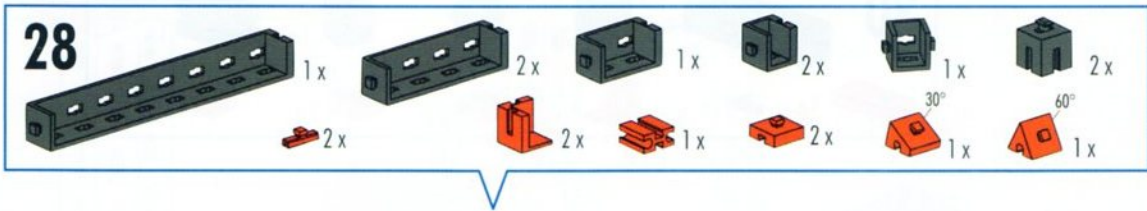
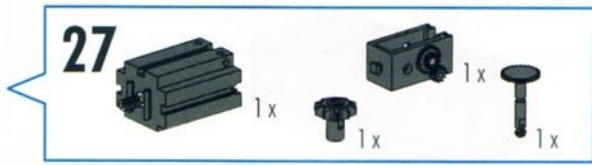
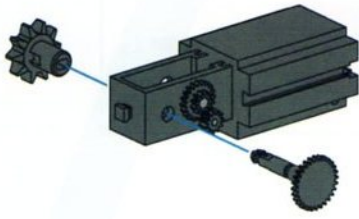


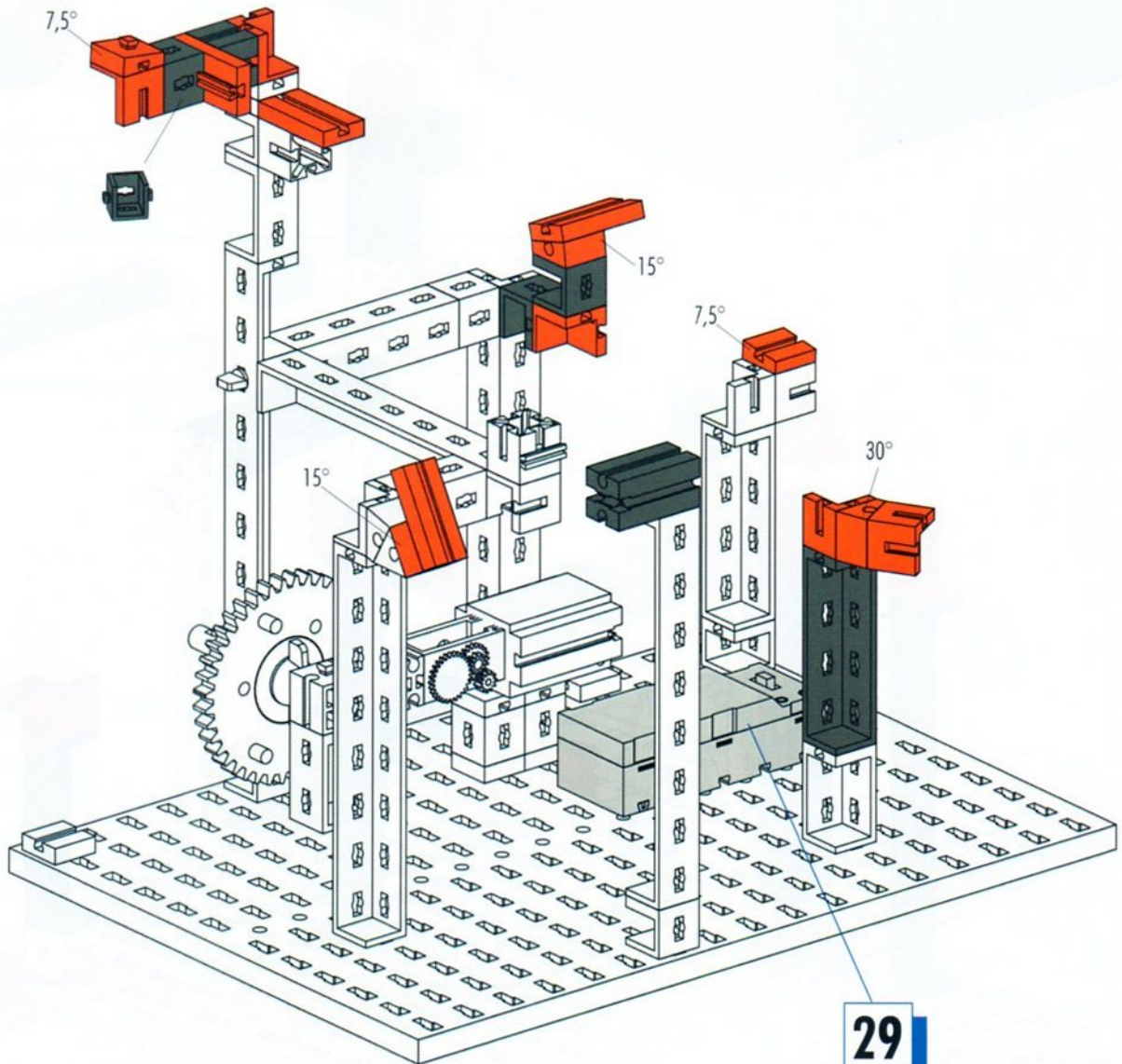
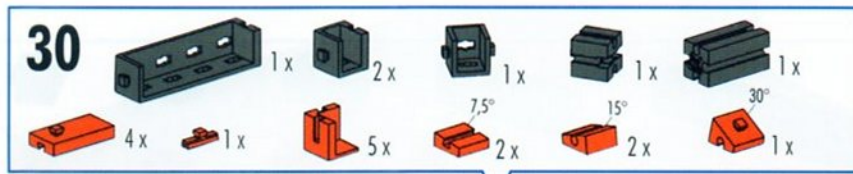
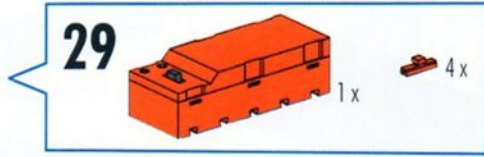
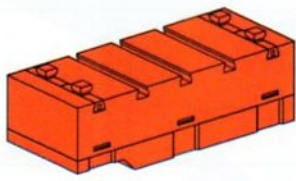
24

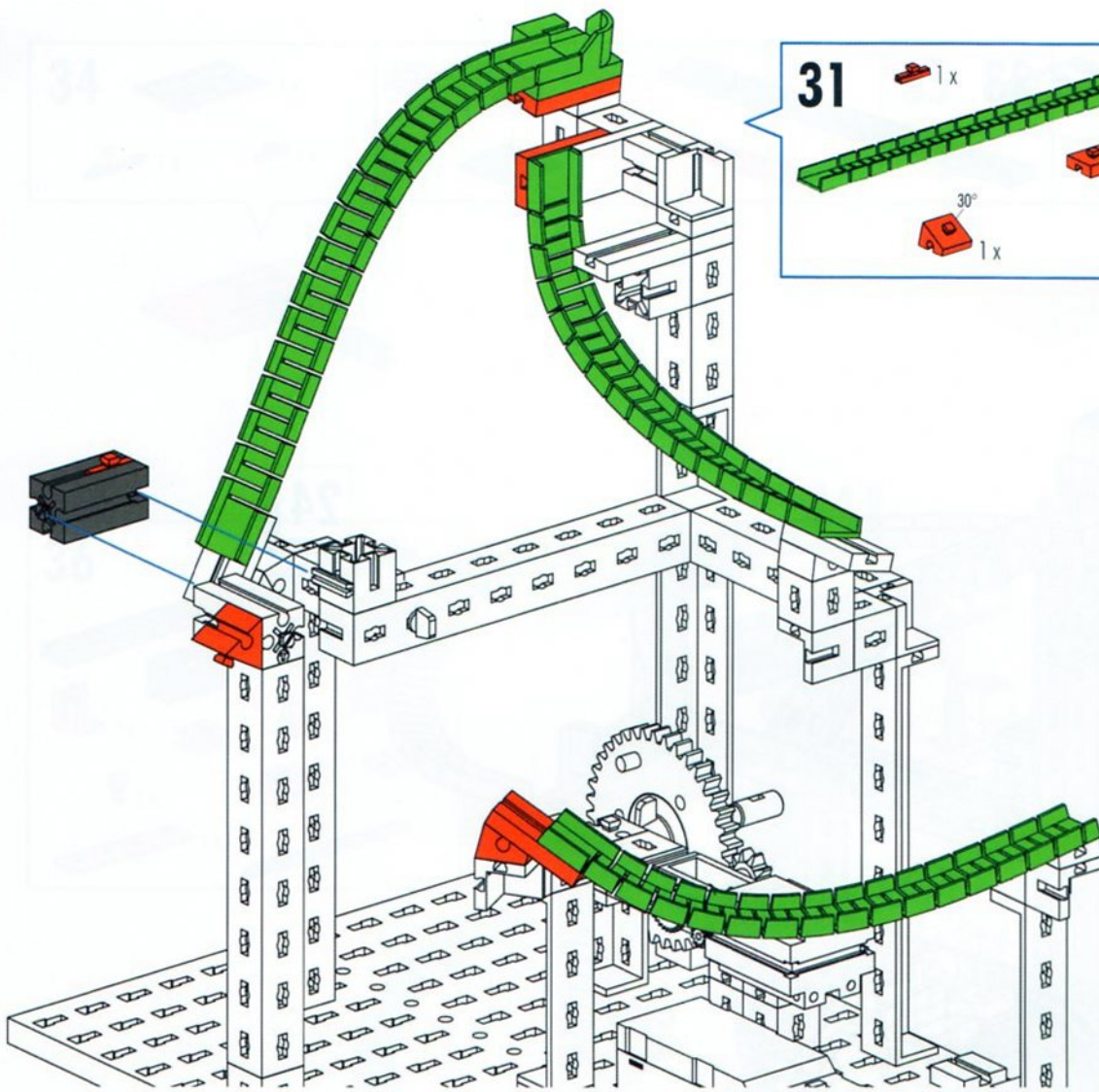
- 1 x 1x12 green Technic beam
- 2 x 1x4 black Technic beam
- 1 x 1x2 black Technic beam
- 1 x 1x2 black Technic beam
- 1 x 1x2 black Technic beam
- 2 x 1x2 white Technic beam
- 4 x 1x1 orange Technic pin
- 1 x 1x1 red Technic pin
- 1 x 1x1 red Technic pin
- 1 x 1x1 red Technic pin
- 2 x 1x1 black Technic pin





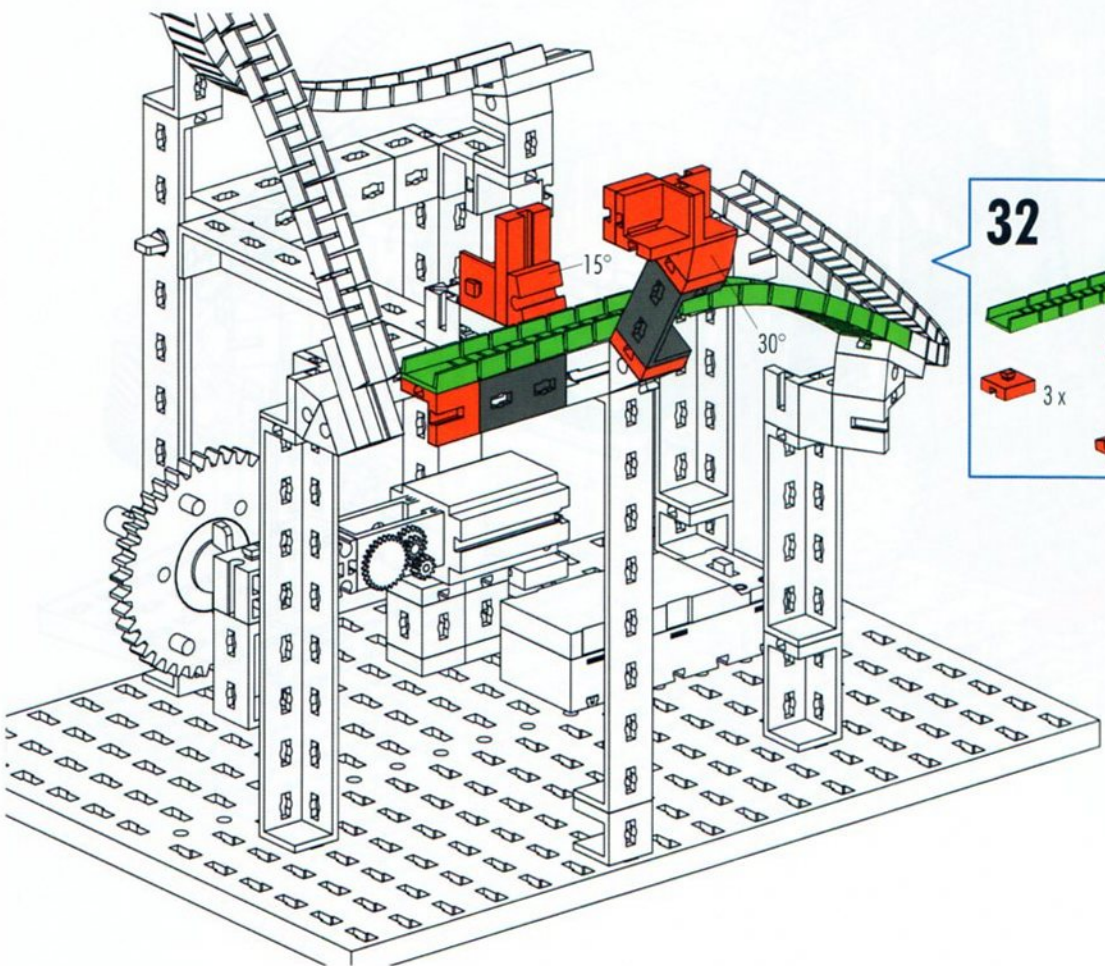






**31**

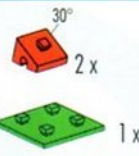
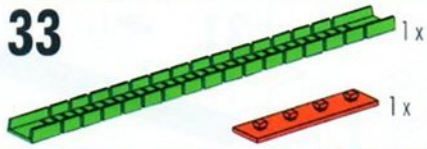
- 1 x [Small red 1x3 Technic brick]
- 3 x [Green 1x15 Technic Technic beam]
- 1 x [Black 1x3 Technic Technic beam]
- 3 x [Red 1x3 Technic Technic brick]
- 1 x [Red 30° Technic Technic brick]
- 1 x [Red 60° Technic Technic brick]
- 1 x [Green 1x3 Technic Technic L-Shape]



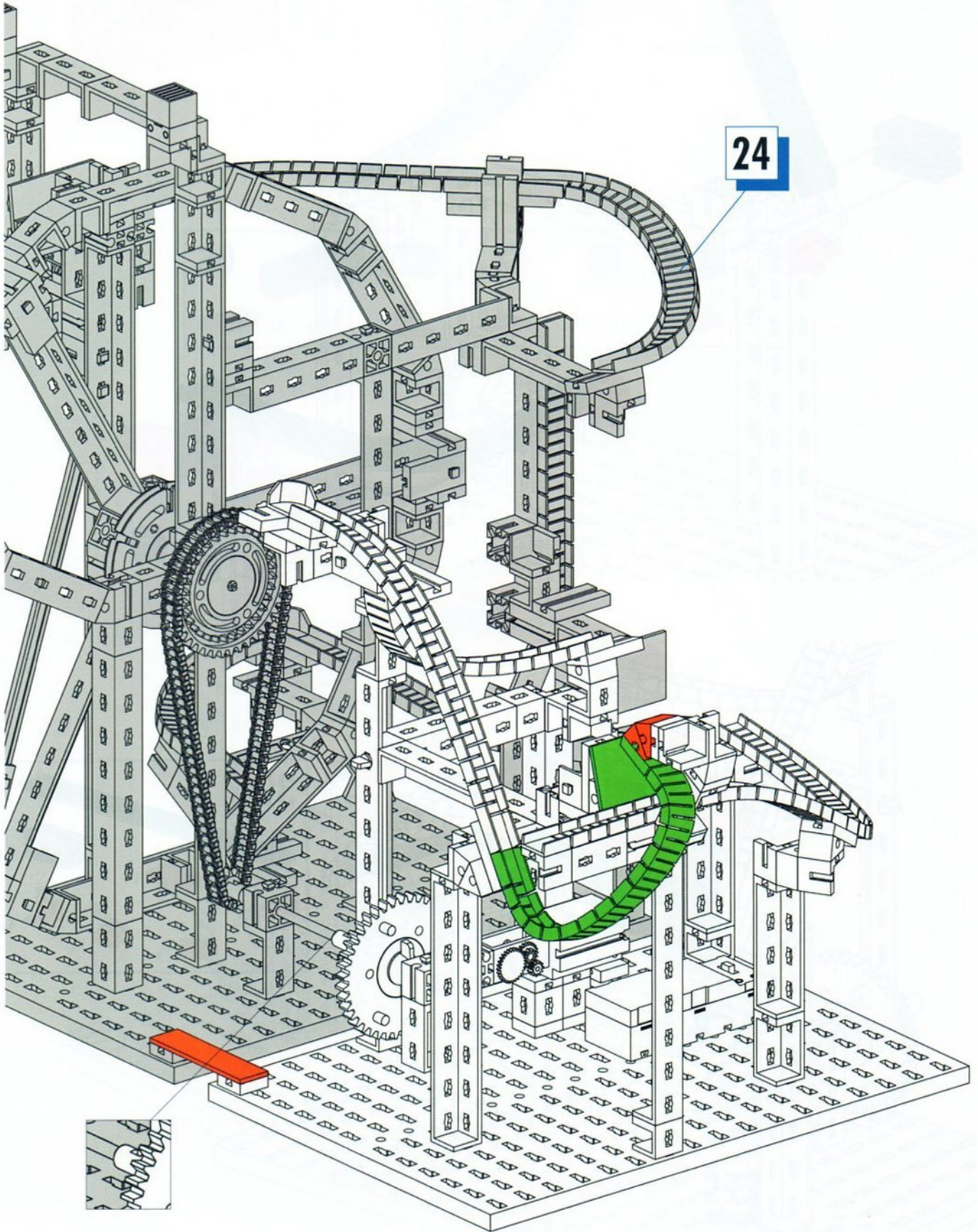
**32**

- 1 x [Green 1x15 Technic Technic beam]
- 2 x [Black 1x3 Technic Technic beam]
- 1 x [Red 1x3 Technic Technic brick]
- 3 x [Red 1x3 Technic Technic brick]
- 1 x [Red 15° Technic Technic brick]
- 1 x [Red 30° Technic Technic brick]
- 4 x [Red 1x3 Technic Technic L-Shape]

33

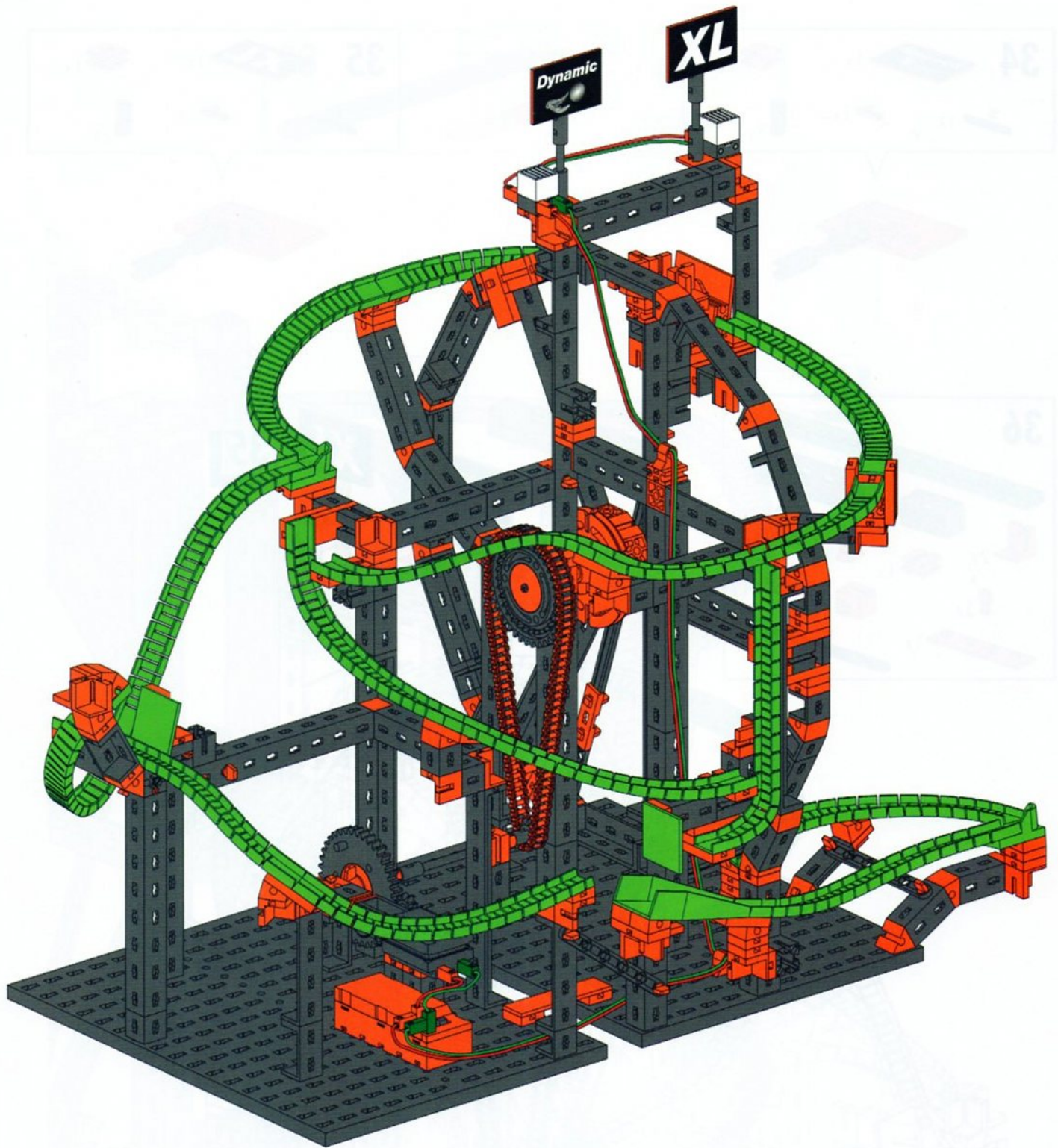


24





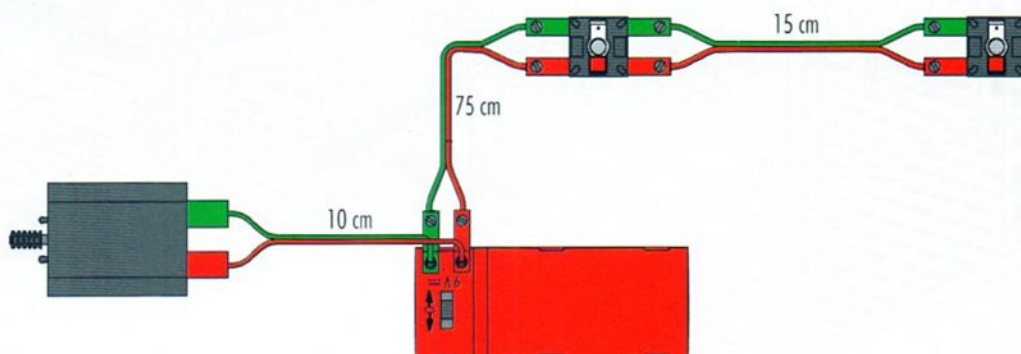


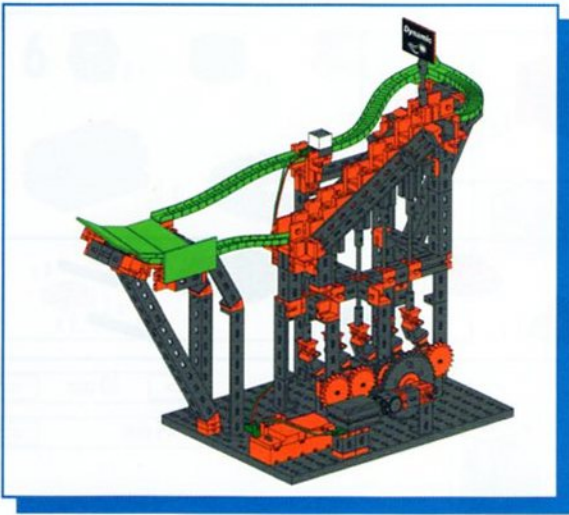


Schaltplan  
Circuit diagram  
Plan électrique

Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图



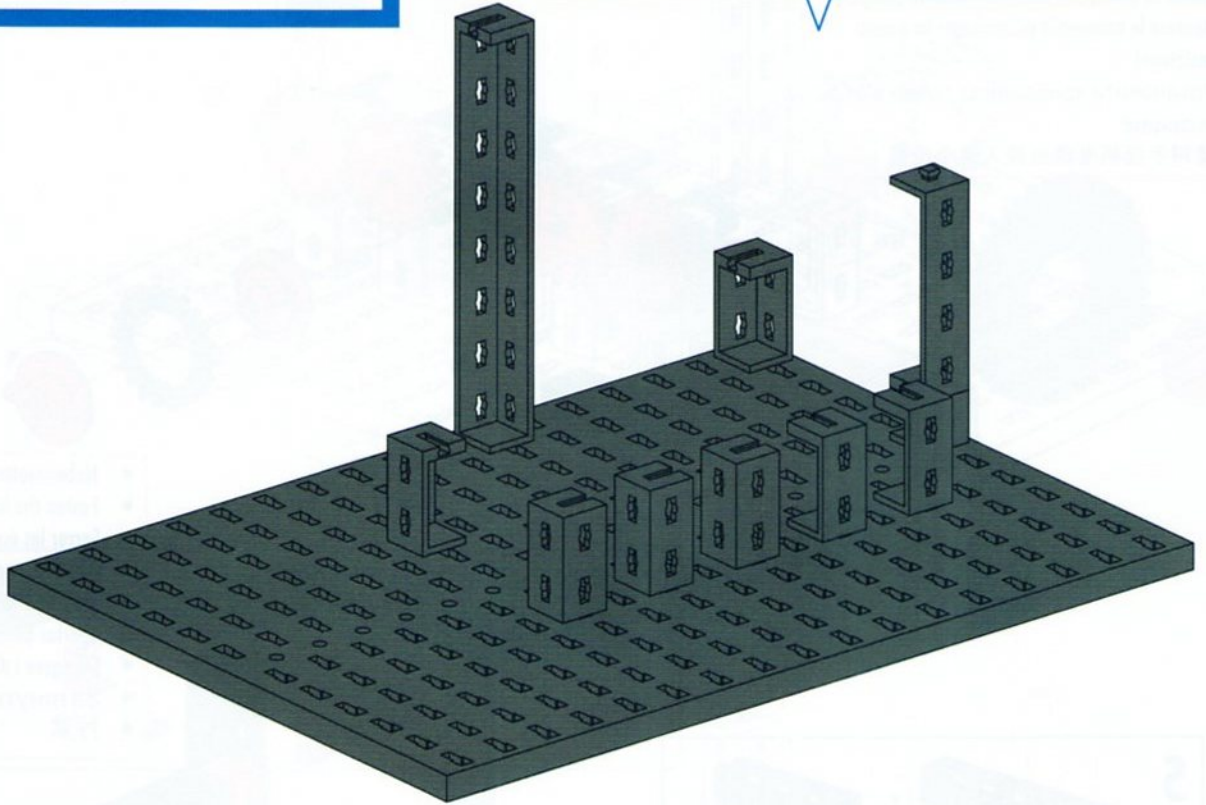
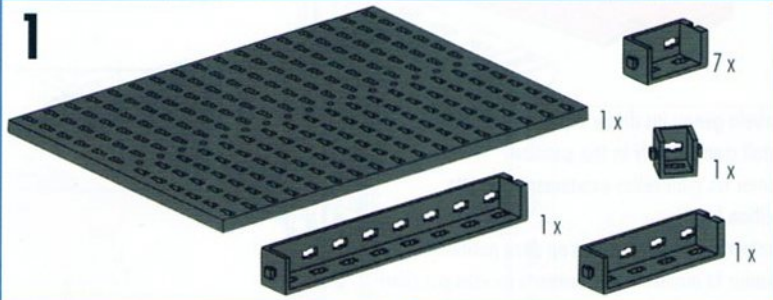


Treppenförderer  
Stair step conveyor  
Monte-escalier

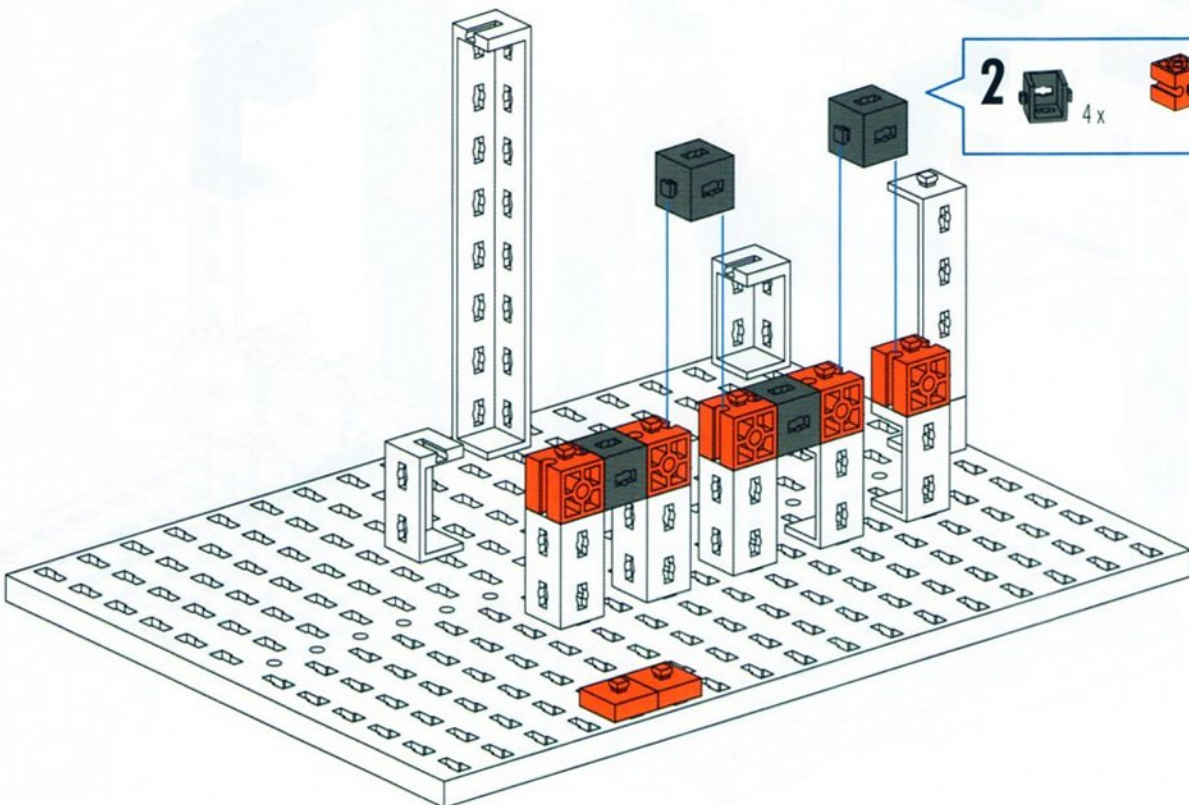
Trapgewijze transporteur  
Transportador de escalera  
Transportadora de escada

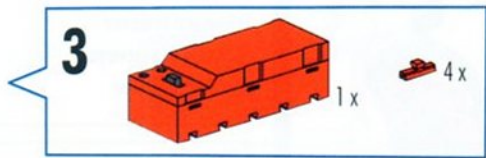
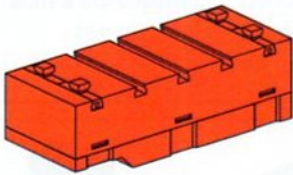
Convogliatore a scala  
Лестничный  
транспортёр  
阶梯式输送机

1

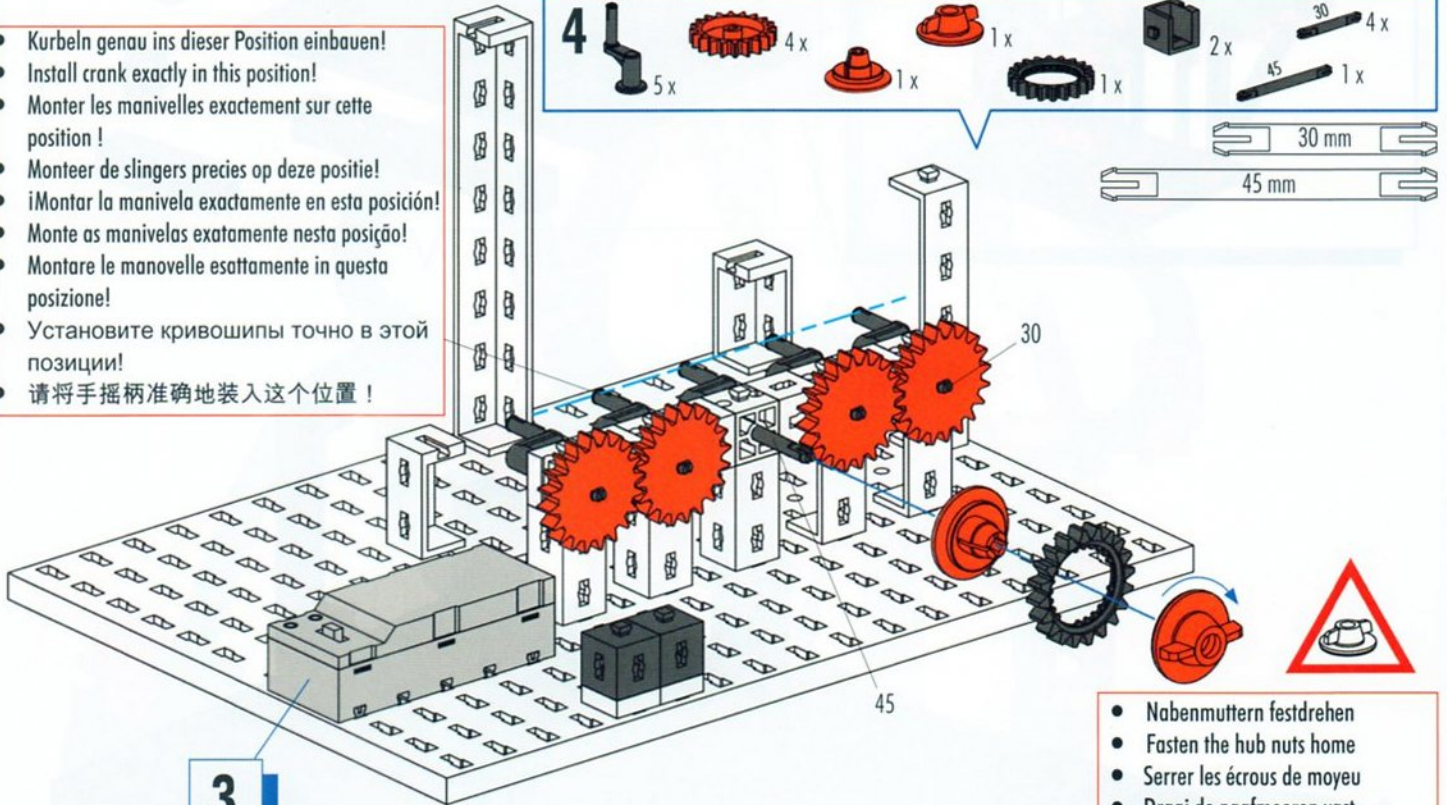
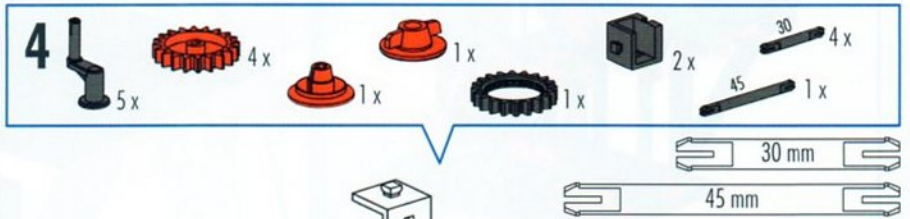


2



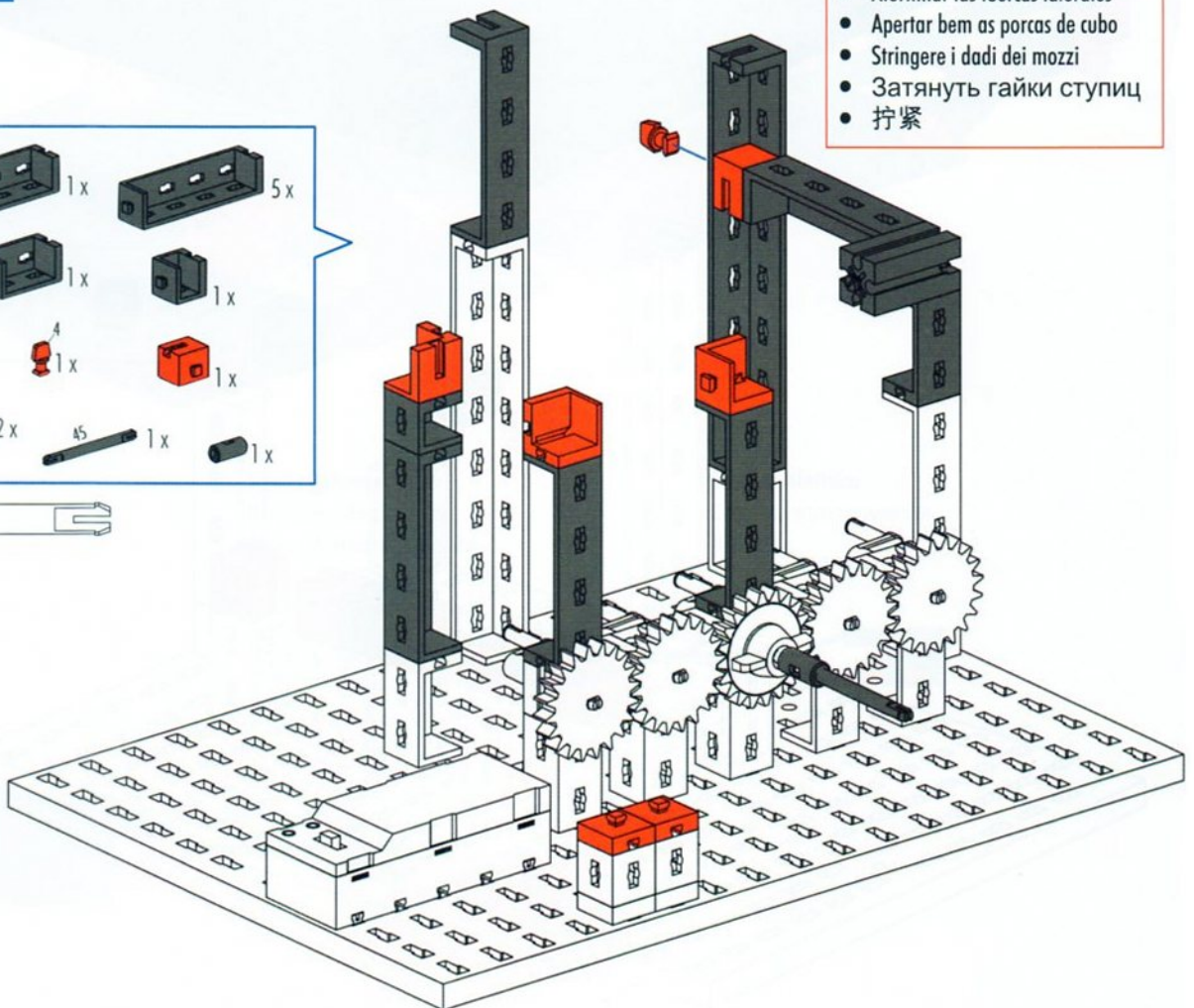
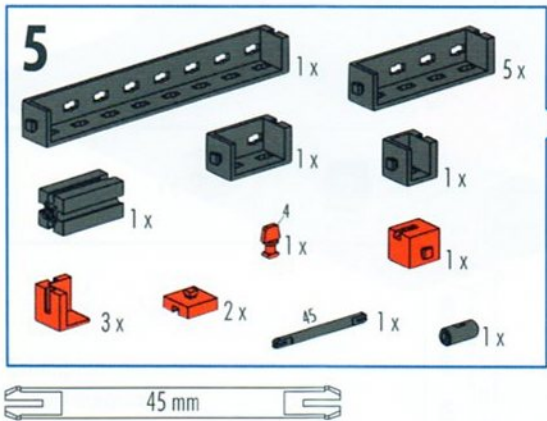


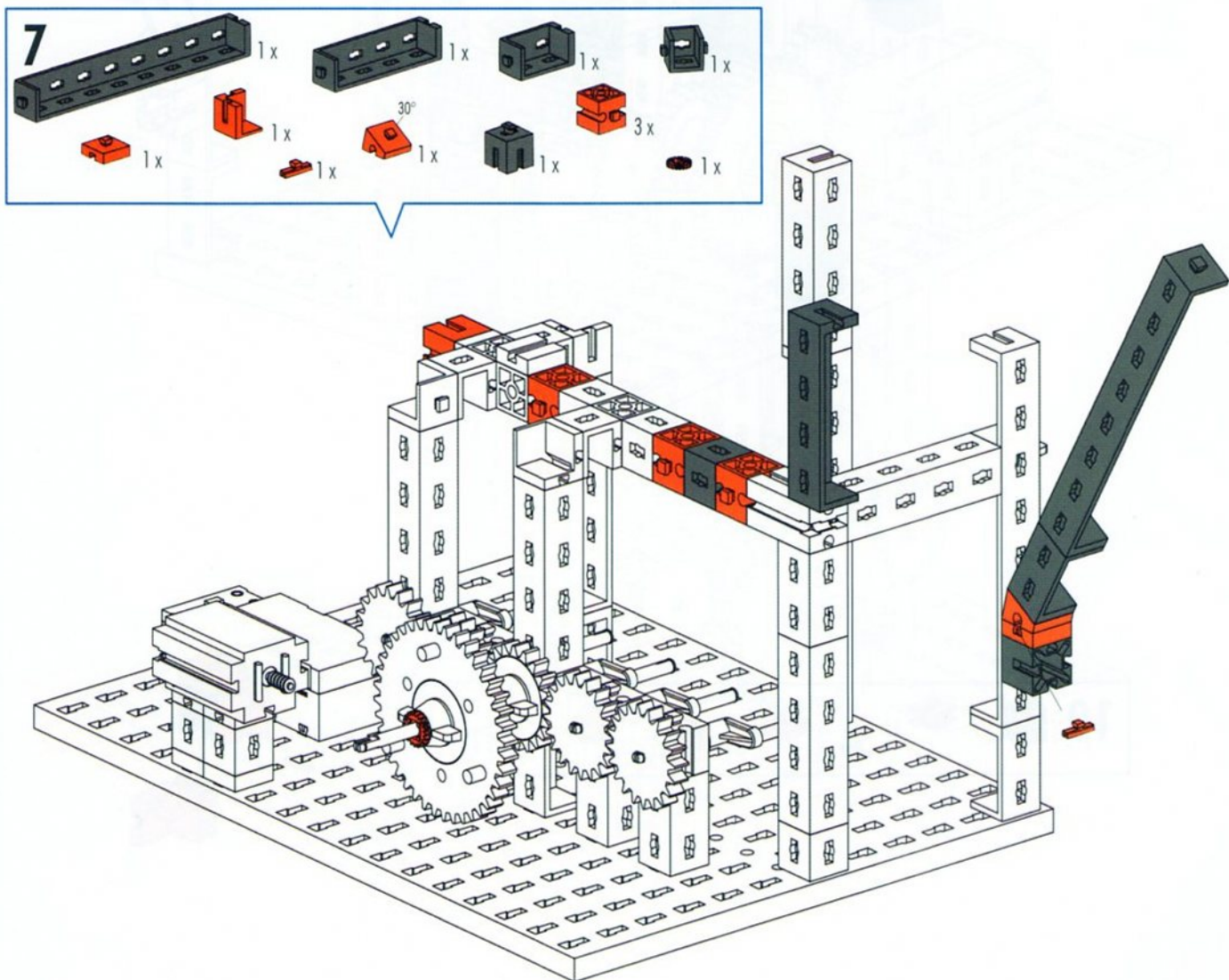
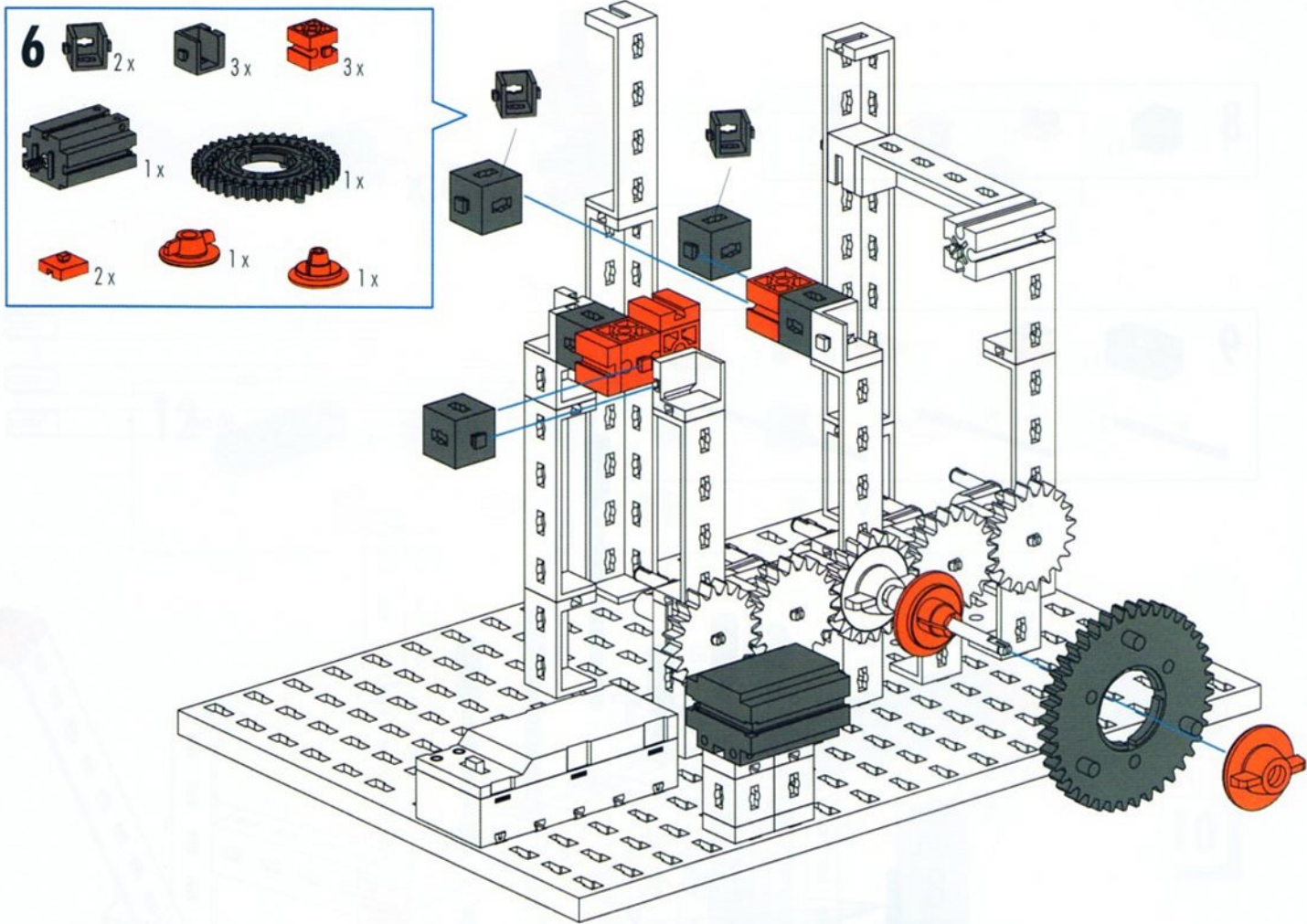
- Kurbeln genau ins dieser Position einbauen!
- Install crank exactly in this position!
- Monter les manivelles exactement sur cette position !
- Monteer de slingers precies op deze positie!
- ¡Montar la manivela exactamente en esta posición!
- Monte as manivelas exatadamente nesta posição!
- Montare le manovelle esattamente in questa posizione!
- Установите кривошпы точно в этой позиции!
- 请将手摇柄准确地装入这个位置 !



**3**

- Nabenmuttern festdrehen
- Fasten the hub nuts home
- Serrer les écrous de moyeu
- Draai de naafmoeren vast
- Atornillar las tuercas laterales
- Apertar bem as porcas de cubo
- Stringere i dadi dei mozzi
- Затянуть гайки ступиц
- 拧紧











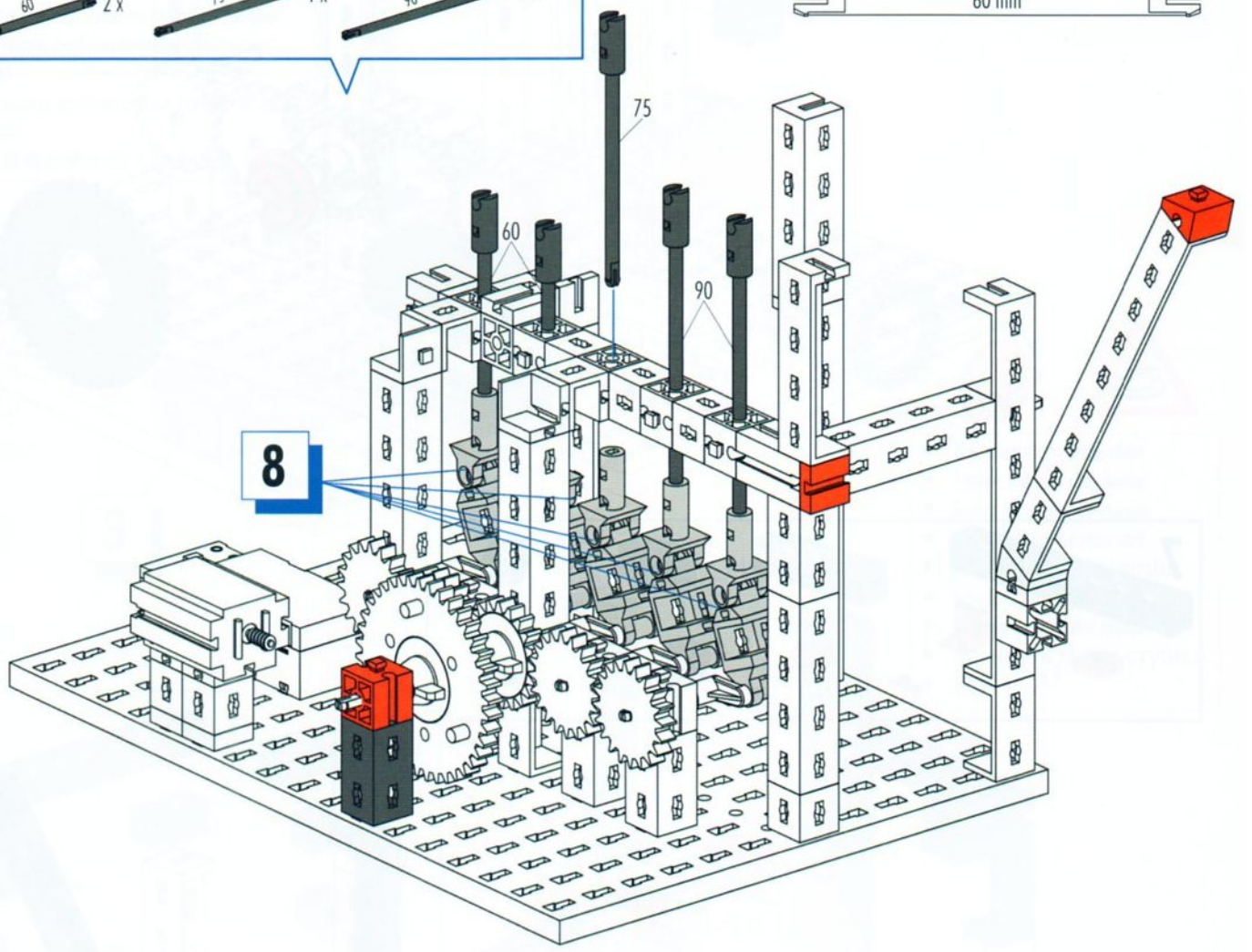
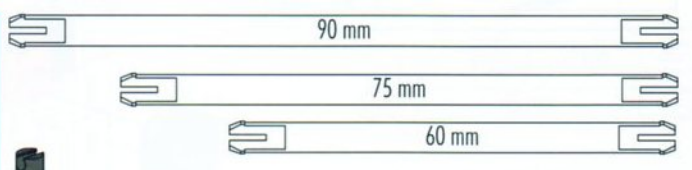








- 8**  5x  5x  5x  5x

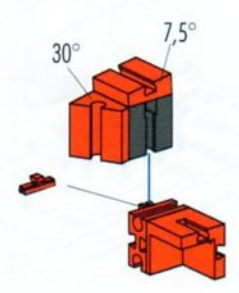


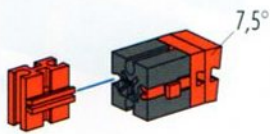
**5 x**

- 9**  1x  1x  1x  5x  1x
-  2x  1x  2x



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

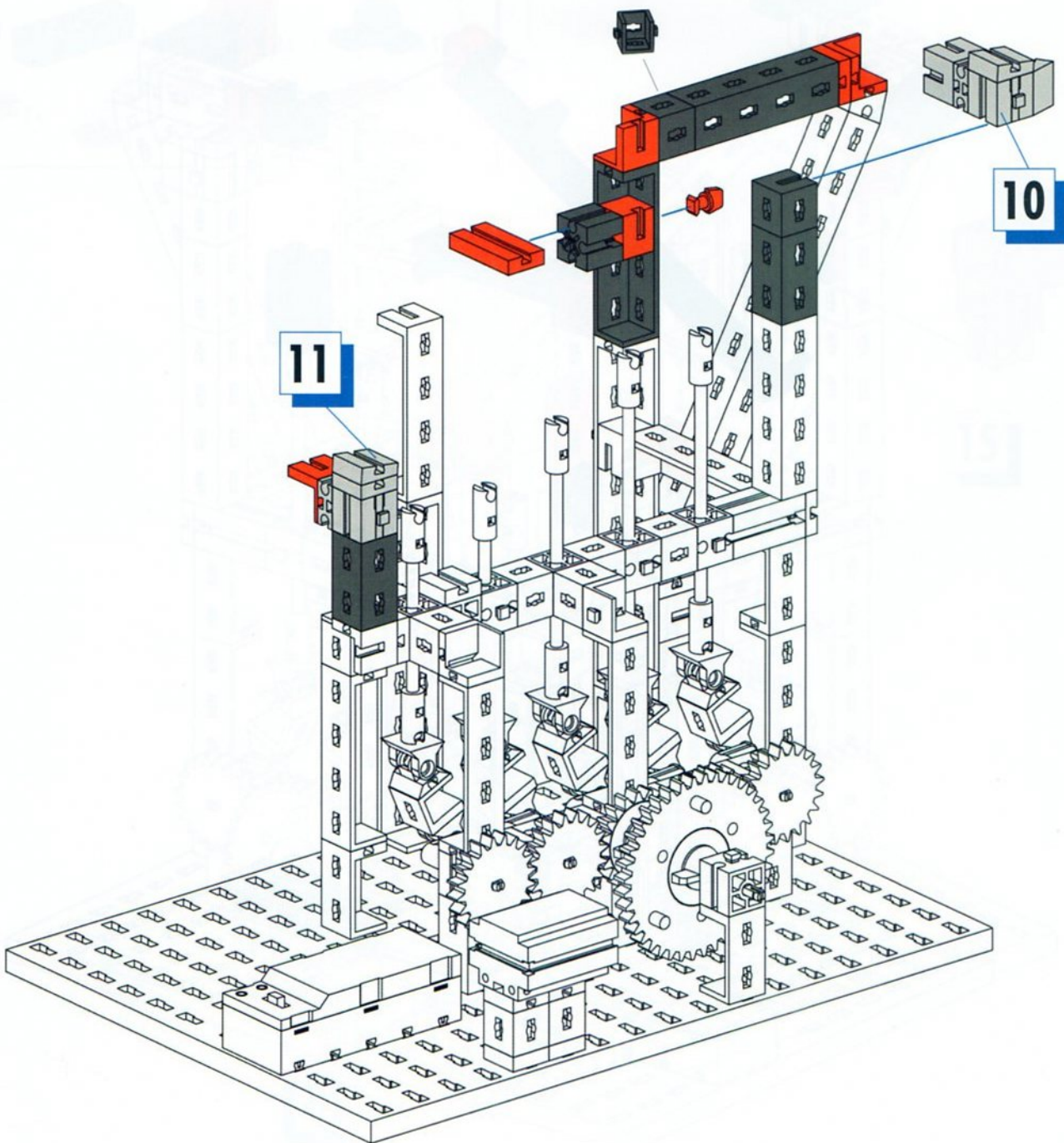




- 11** 1x 1x 1x 2x 1x 7,5° 1x

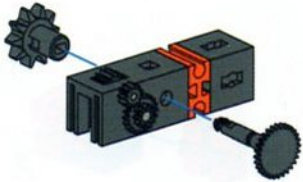
**12**

- 2x 2x 1x 1x 1x 1x 3x 1x 1x 1x 1x



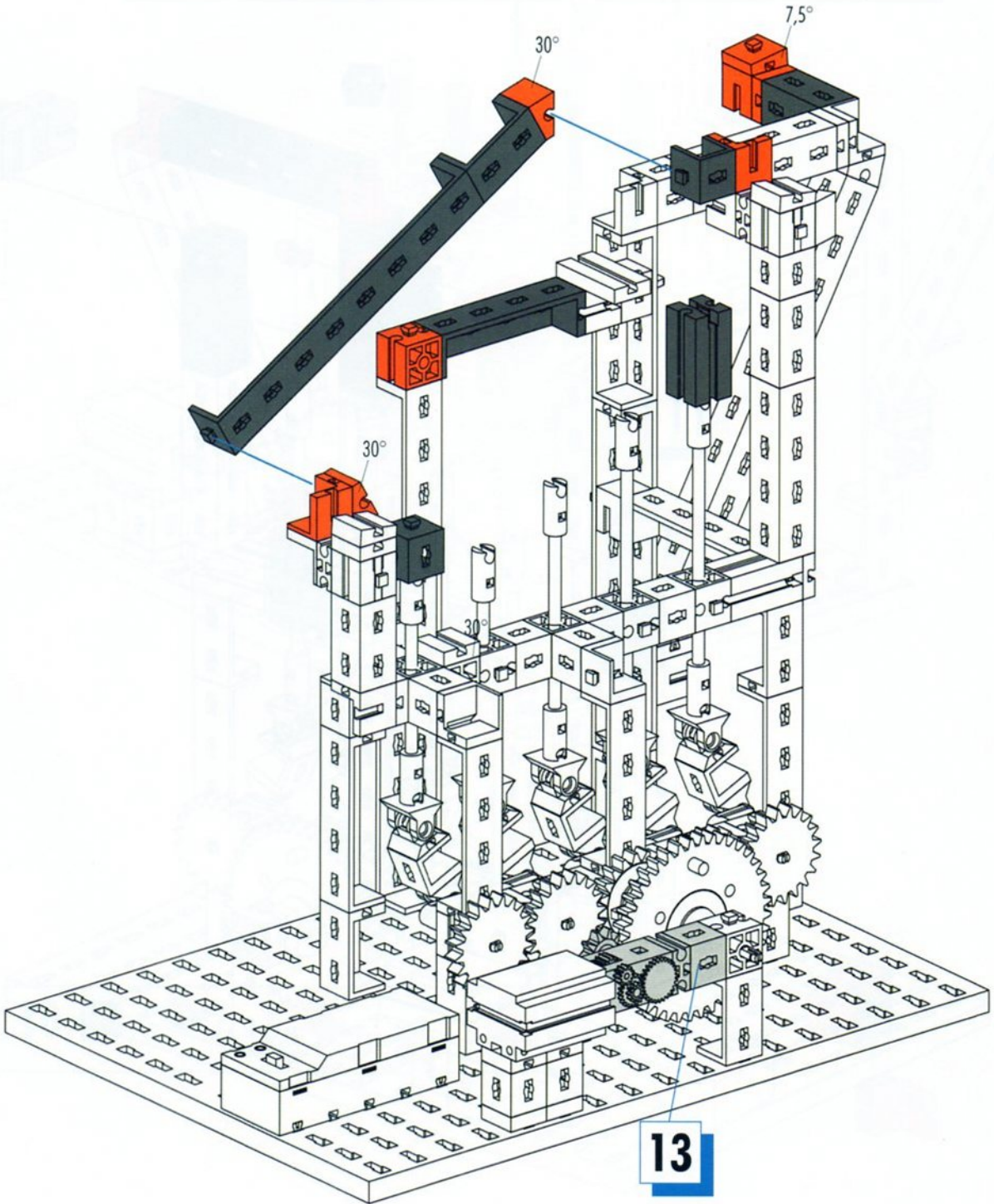
**13**

- 1x [Black 1-hole Technic Pin]
- 1x [Black 1-hole Technic Pin]
- 1x [Red 1-hole Technic Pin]
- 1x [Black 1-hole Technic Pin]
- 1x [Black 1-hole Technic Pin]

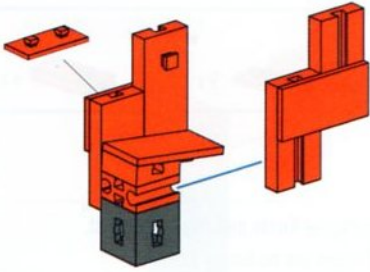


**14**

- 1x [Black 1-hole Technic Beam, 11 holes]
- 1x [Black 1-hole Technic Beam, 5 holes]
- 2x [Black 1-hole Technic Beam, 3 holes]
- 2x [Black 1-hole Technic Pin]
- 1x [Black 1-hole Technic Pin]
- 3x [Red 1-hole Technic Pin]
- 1x [Red 1-hole Technic Pin]
- 1x [Red 1-hole Technic Pin]
- 1x [Red 1-hole Technic Pin, 7.5°]
- 2x [Red 1-hole Technic Pin, 30°]







15



1x



1x



1x



3x



4x

16



1x



1x



1x



2x



1x



2x



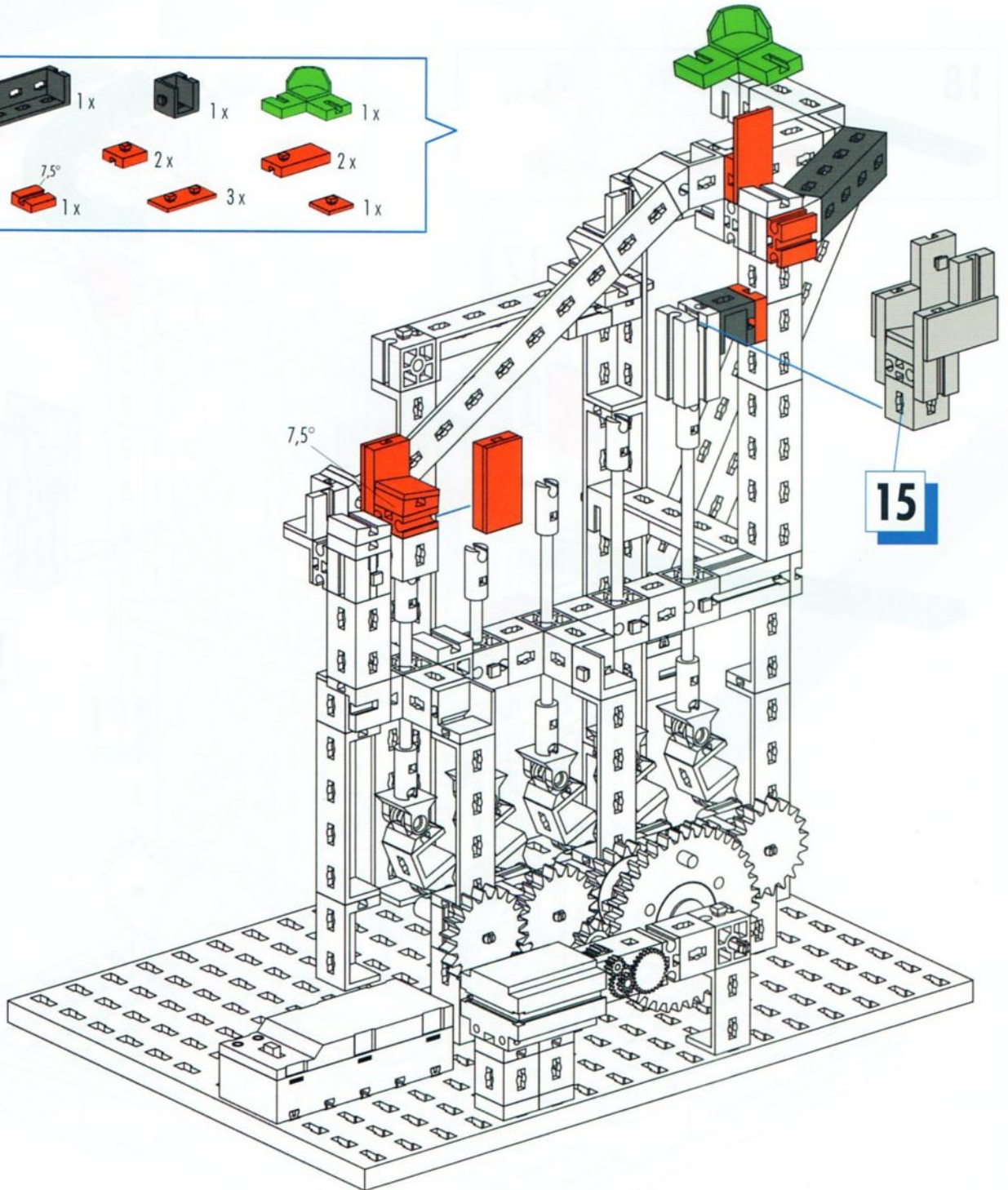
2x



3x



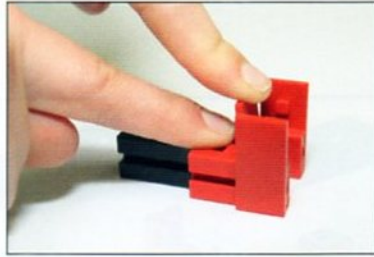
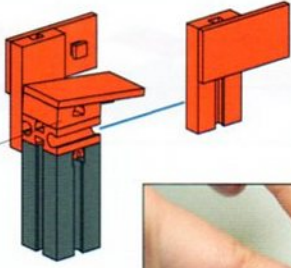
1x



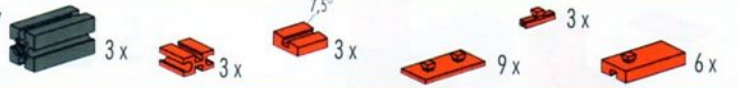
15

3 x

7,5°

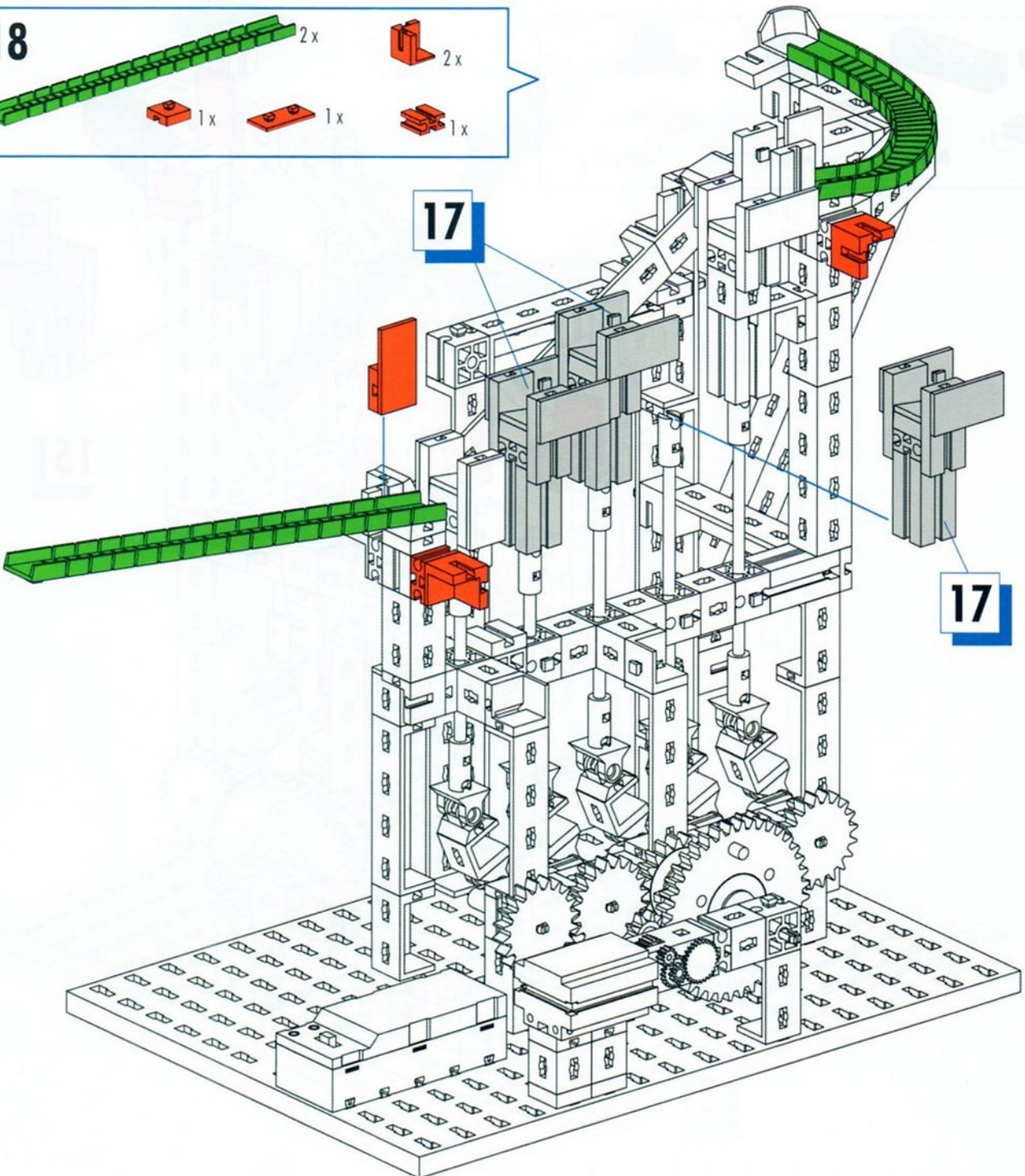
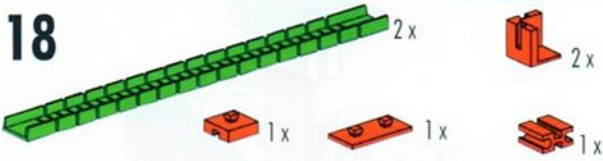


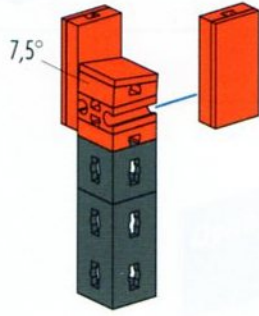
17



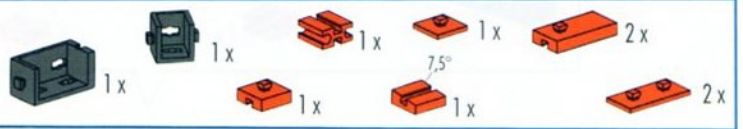
- Bauteile herunterdrücken damit keine Kante mehr vorhanden ist.
- Press component down so that edges are no longer present.
- Faire pression sur les éléments de construction jusqu'à ce qu'il n'y ait plus d'arête.
- Druk de onderdelen naar beneden zodat er geen rand meer is.
- Presionar los componentes hacia abajo para que ya no exista borde.
- Pressione os componentes para baixo, fazendo com que as bordas desapareçam.
- Spingere i componenti verso il basso affinché non rimangano bordi sporgenti.
- Надавите на детали, чтобы не было кромки.
- 将部件向下压入，由此可避免出现棱角。

18

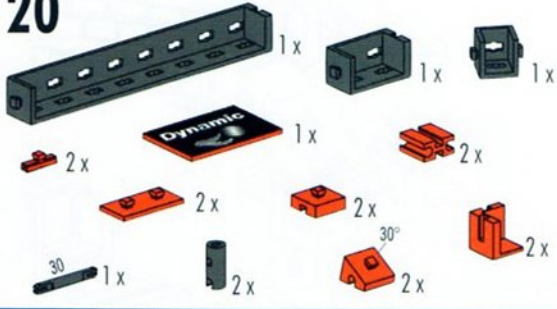




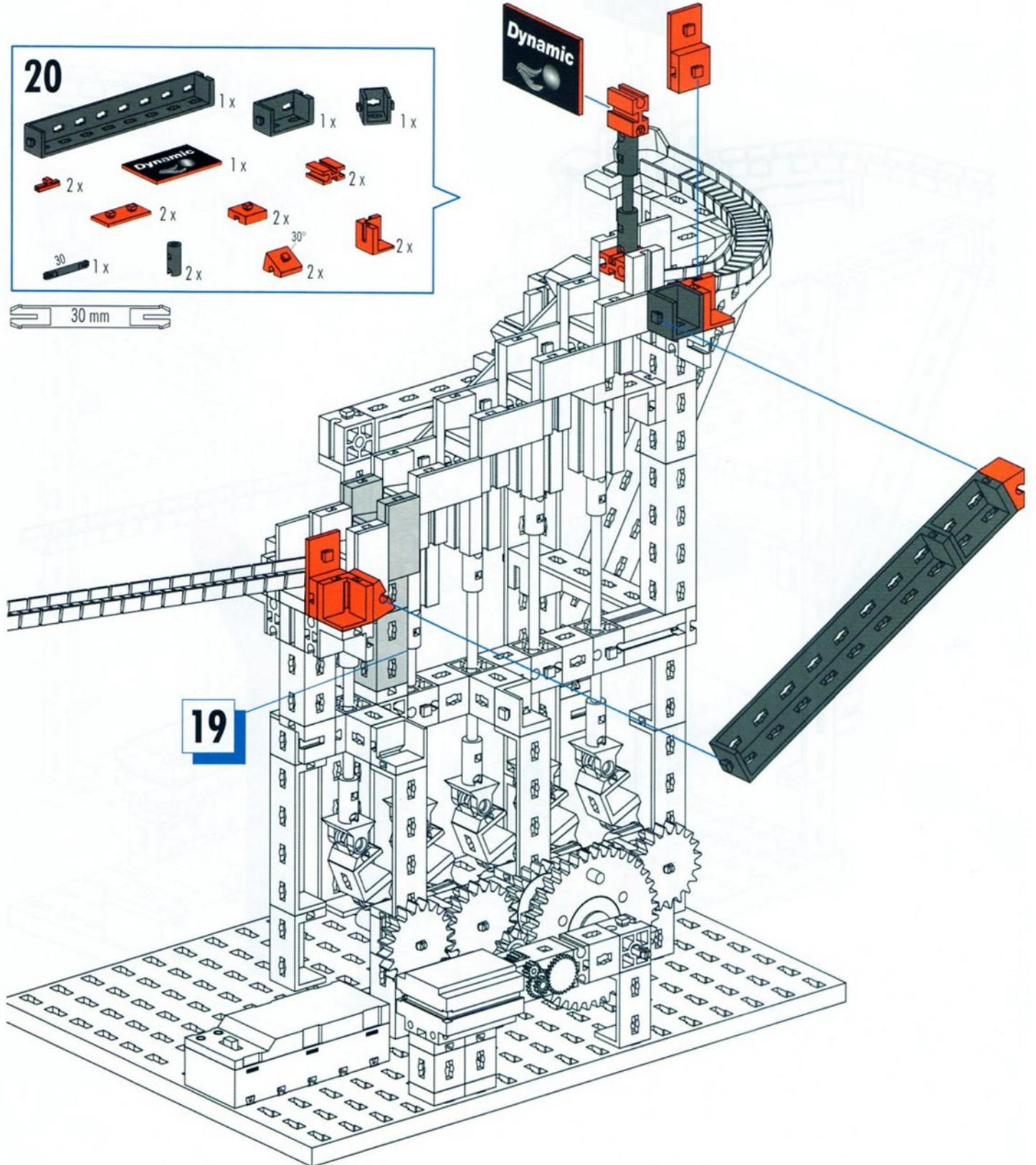
19



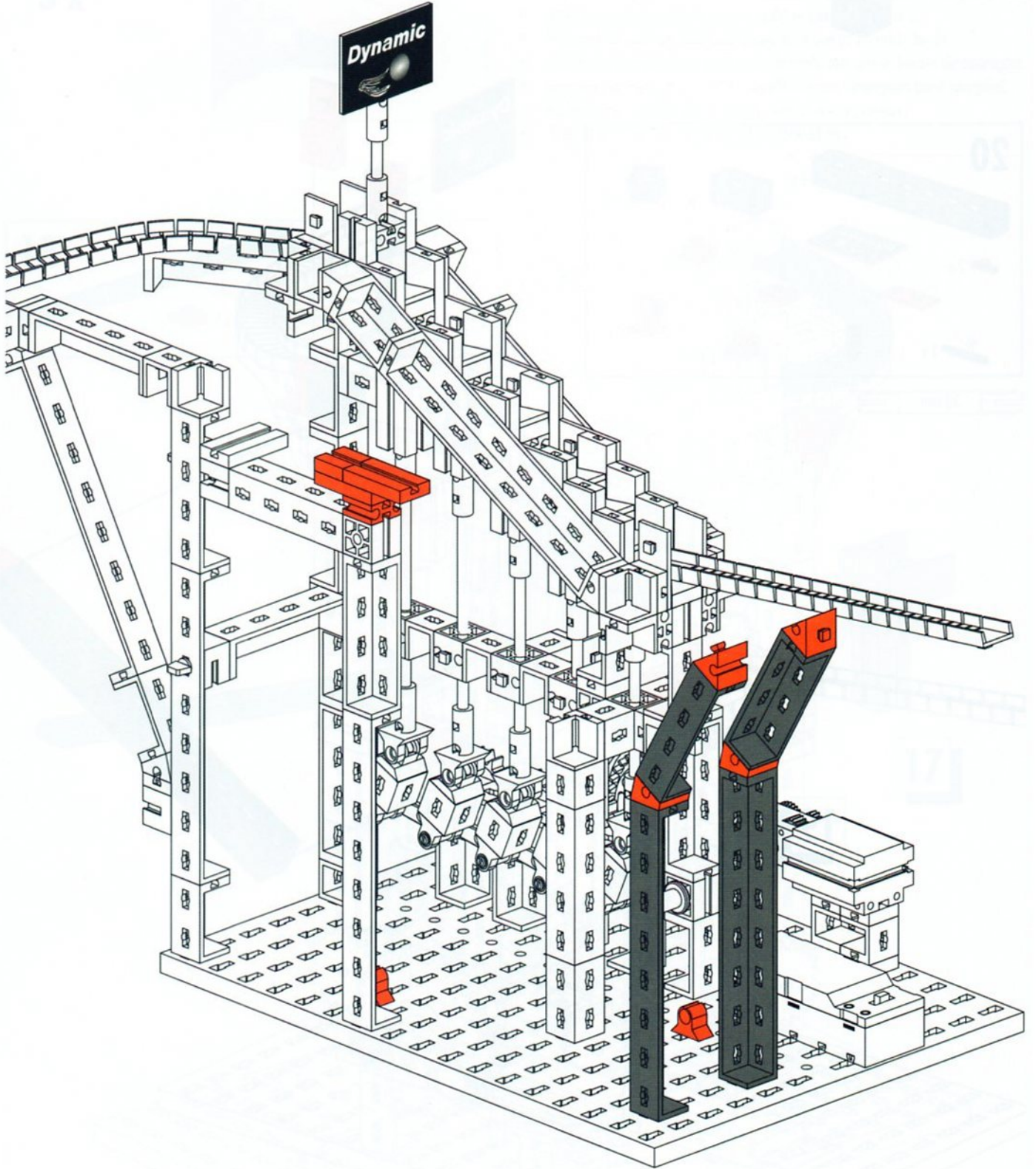
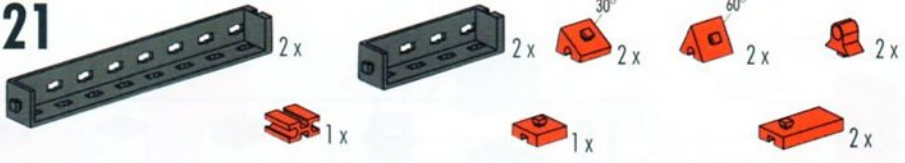
20



30 mm



21



22



1x



1x



2x



3x



1x



1x



4x



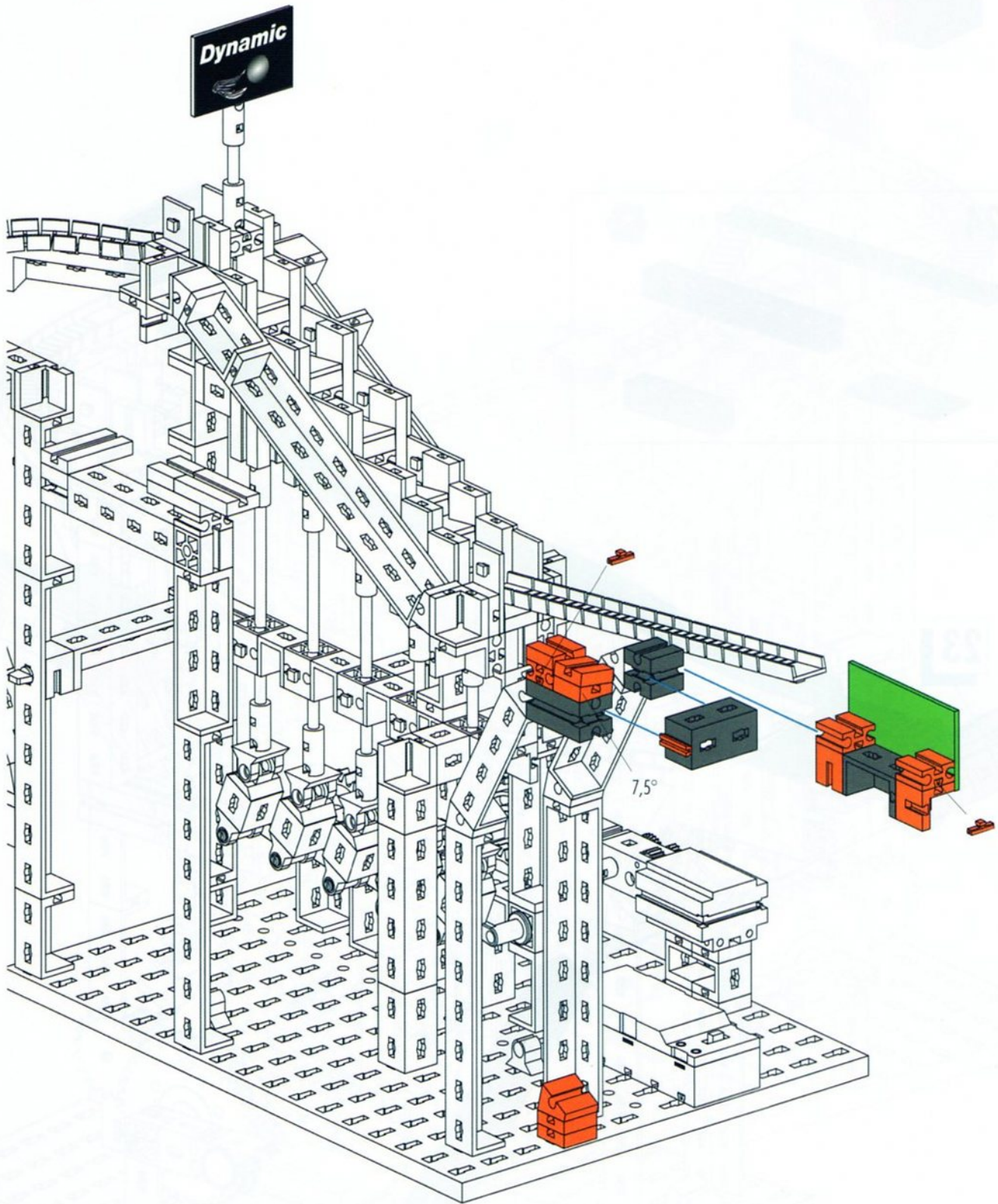
2x

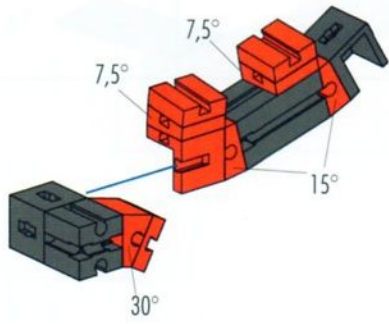


3x

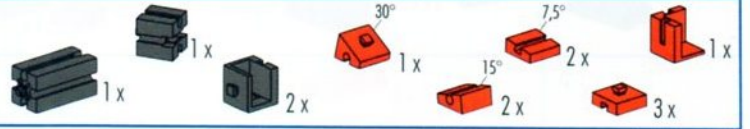


1x

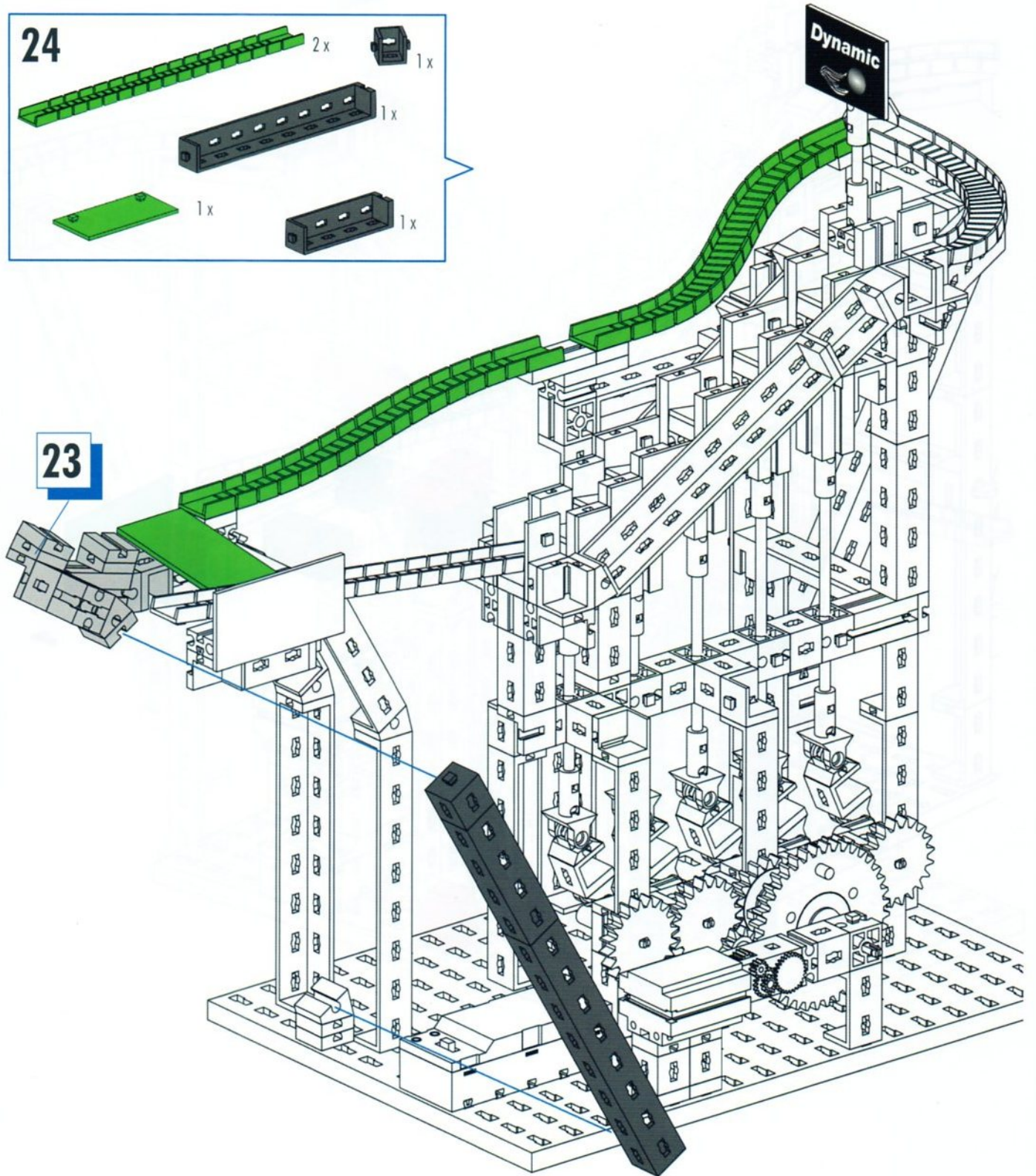
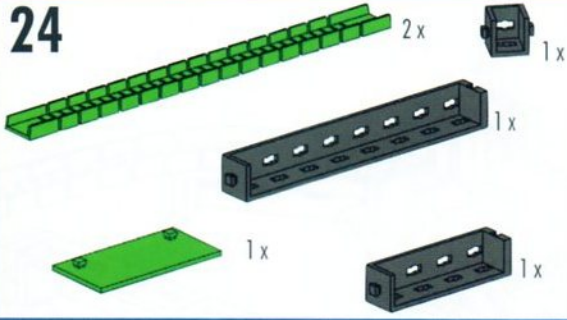




23

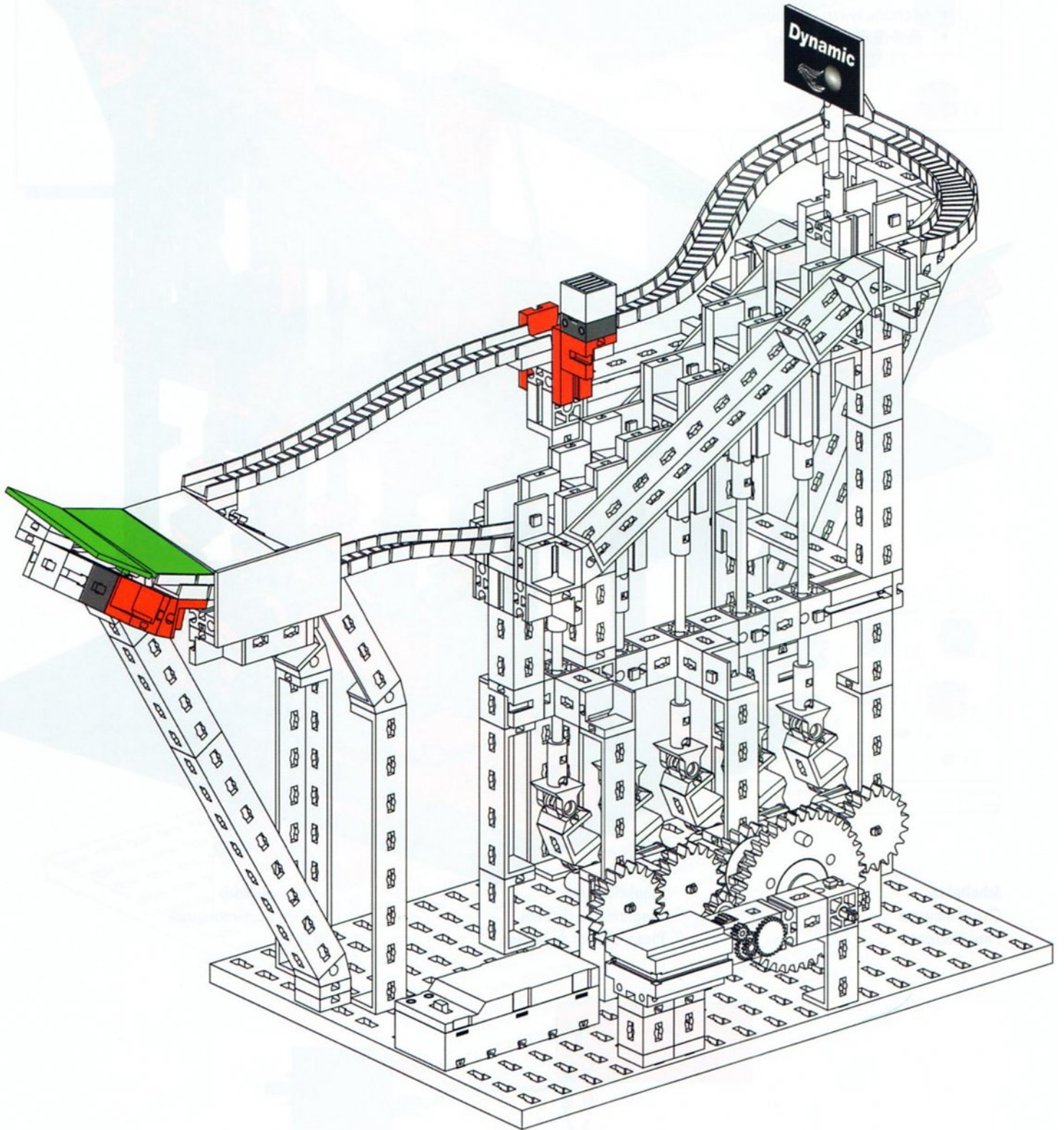


24

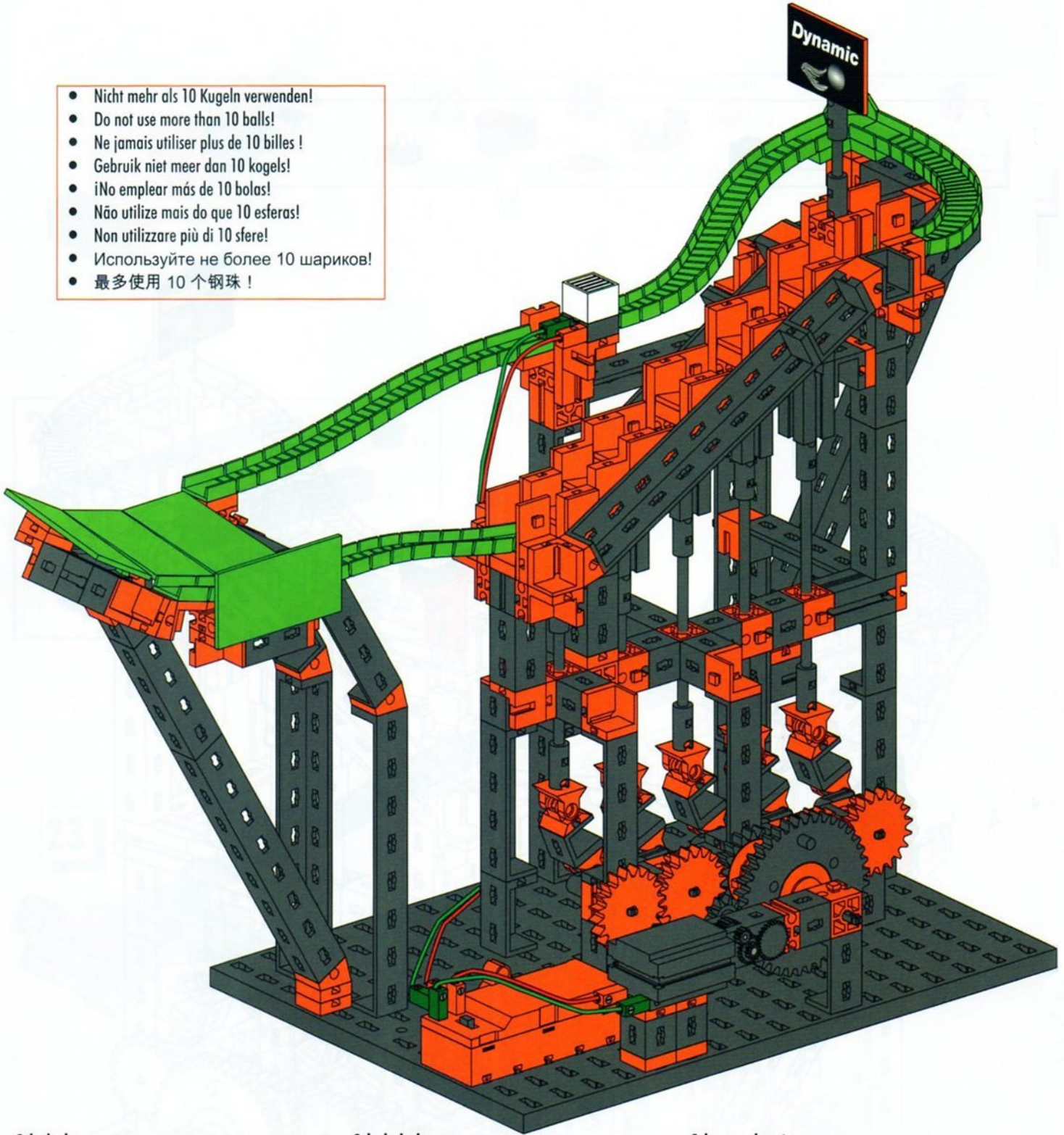


23

25



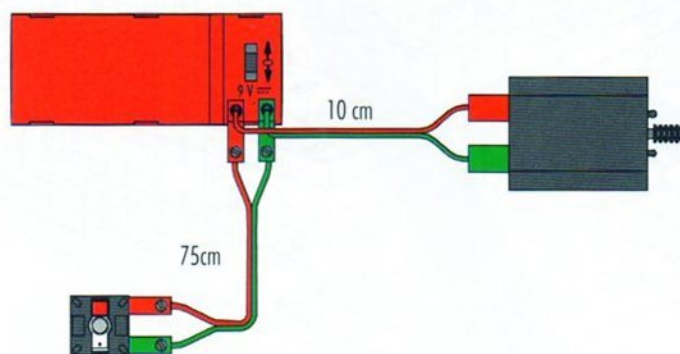
- Nicht mehr als 10 Kugeln verwenden!
- Do not use more than 10 balls!
- Ne jamais utiliser plus de 10 billes !
- Gebruik niet meer dan 10 kogels!
- ¡No emplear más de 10 bolas!
- Não utilize mais do que 10 esferas!
- Non utilizzare più di 10 sfere!
- Используйте не более 10 шариков!
- 最多使用 10 个钢珠 !



Schaltplan  
Circuit diagram  
Plan électrique

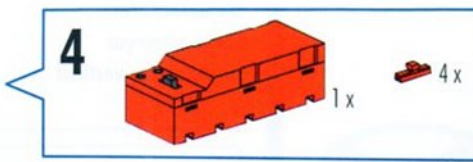
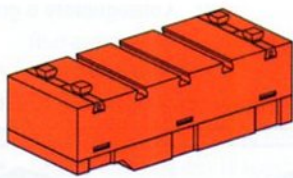
Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图

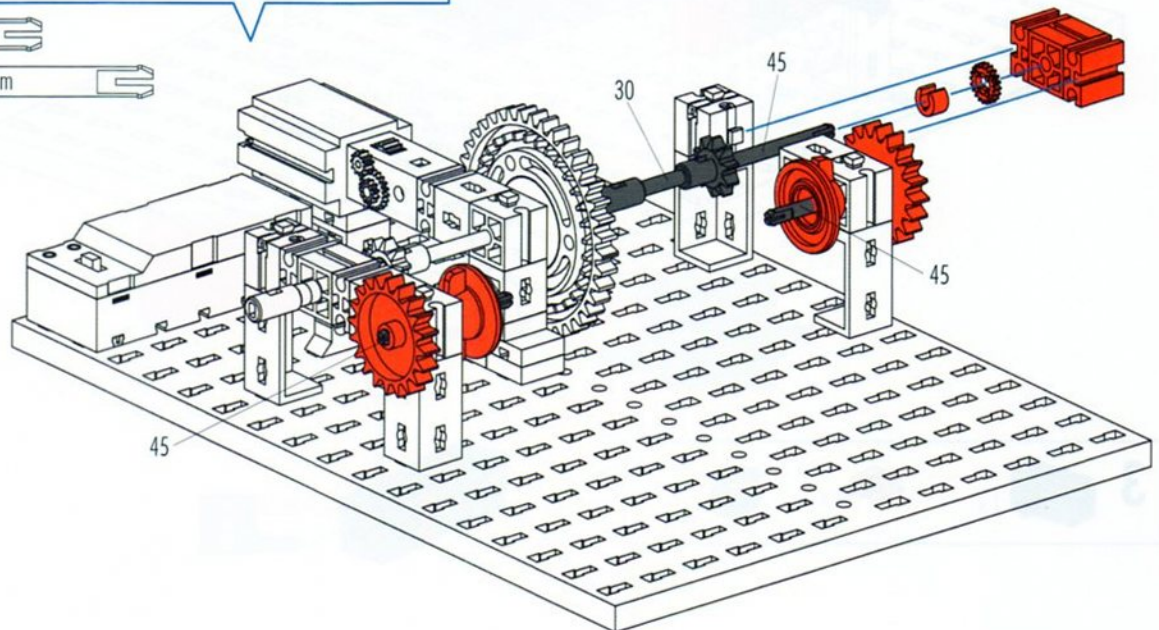
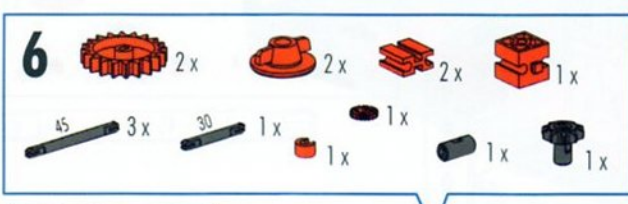
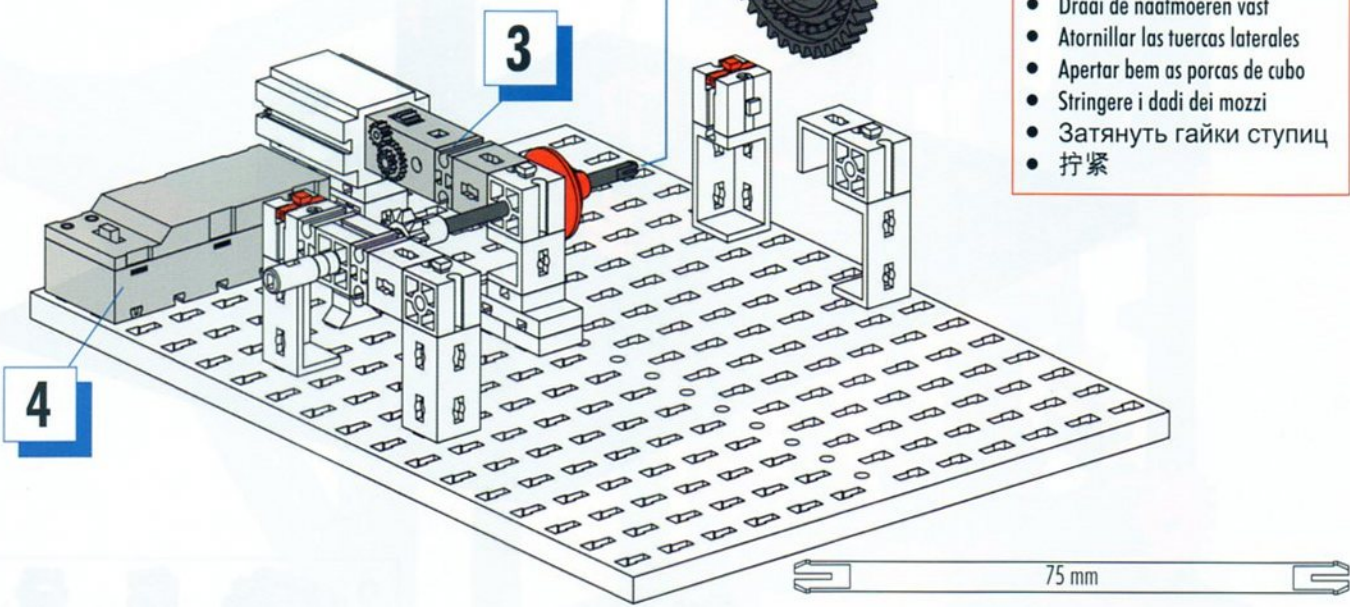


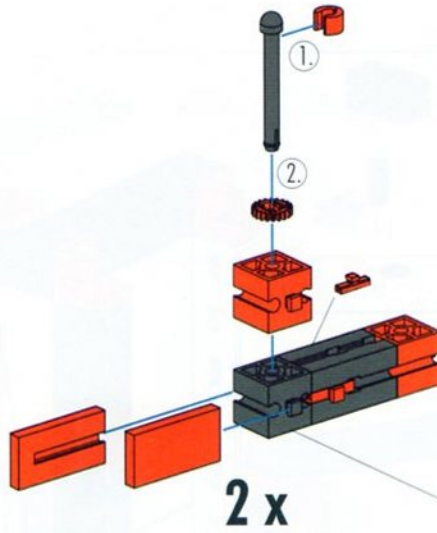
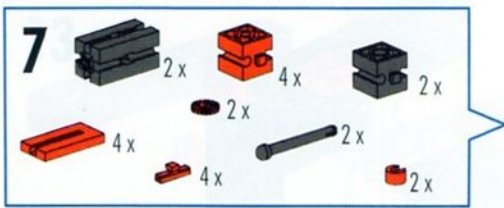




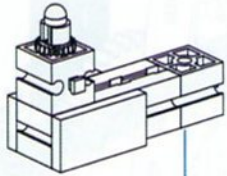


- Nabenmuttern festdrehen
- Fasten the hub nuts home
- Serrer les écrous de moyeu
- Draai de naafmoeren vast
- Atornillar las tuercas laterales
- Apertar bem as porcas de cubo
- Stringere i dadi dei mozzi
- Затянуть гайки ступиц
- 拧紧



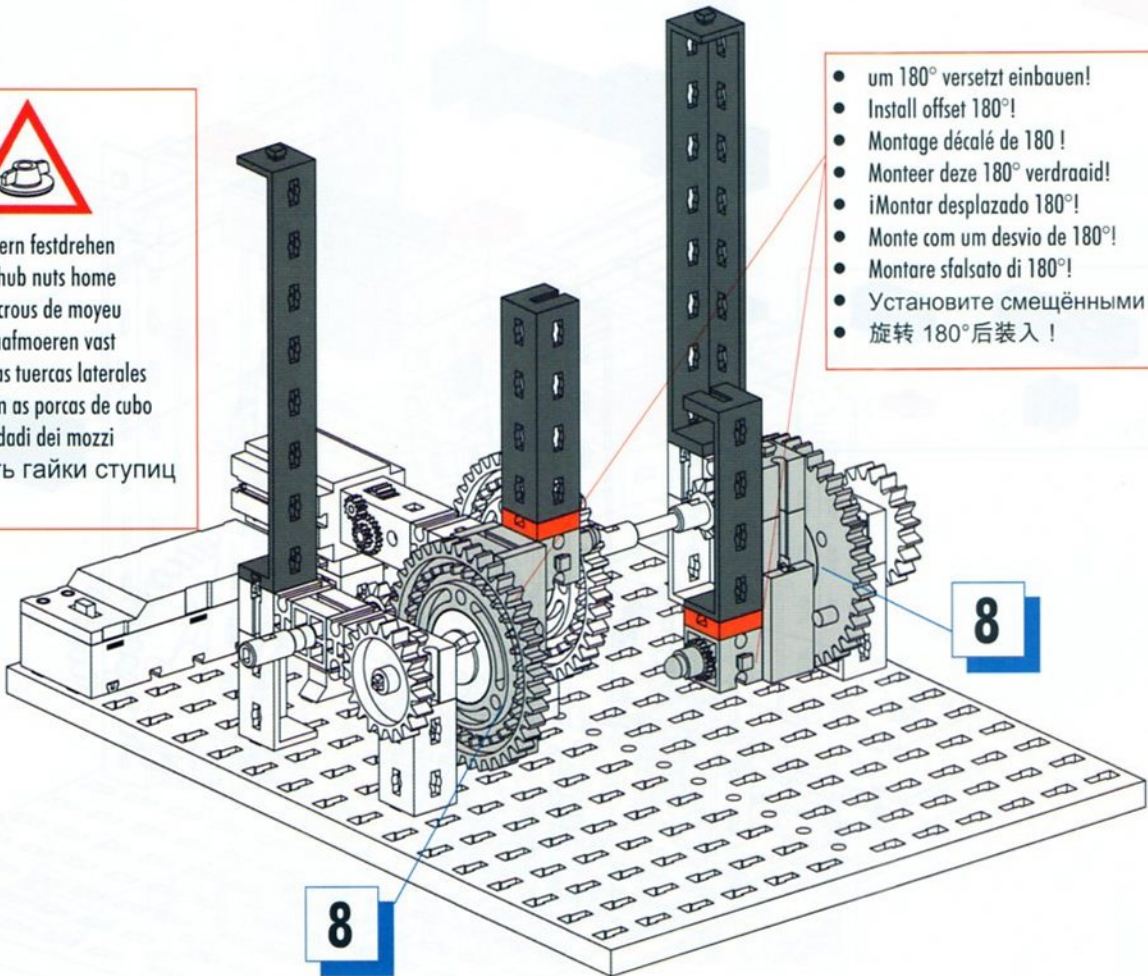


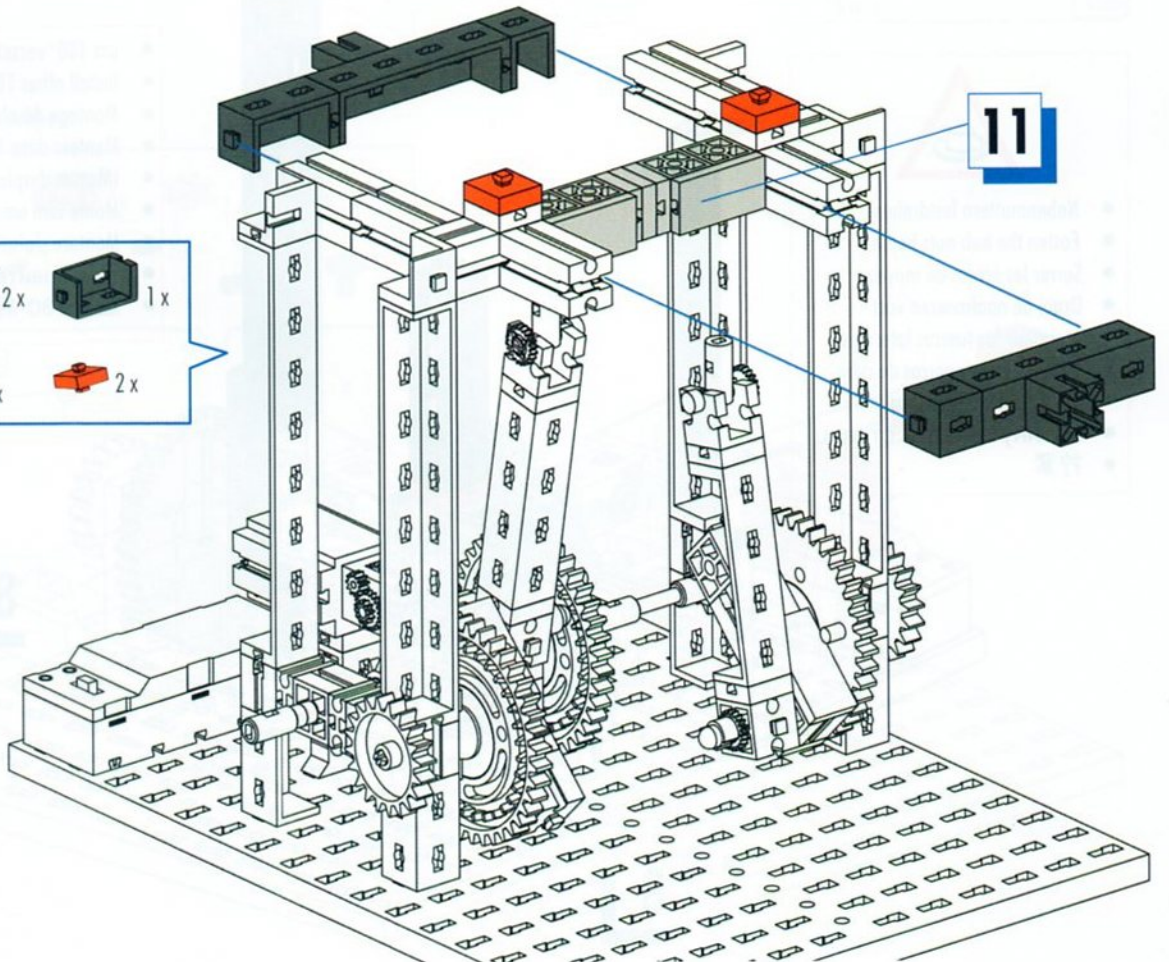
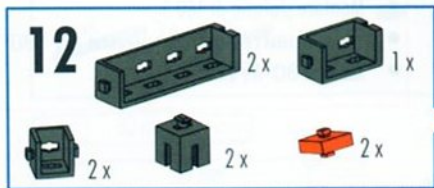
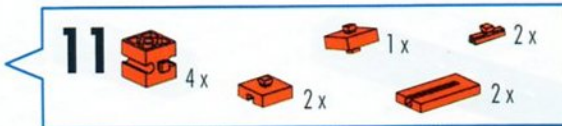
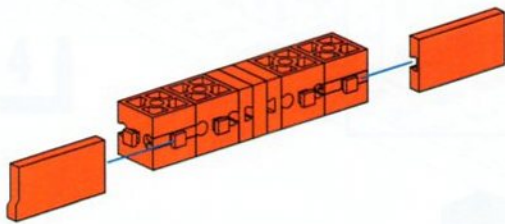
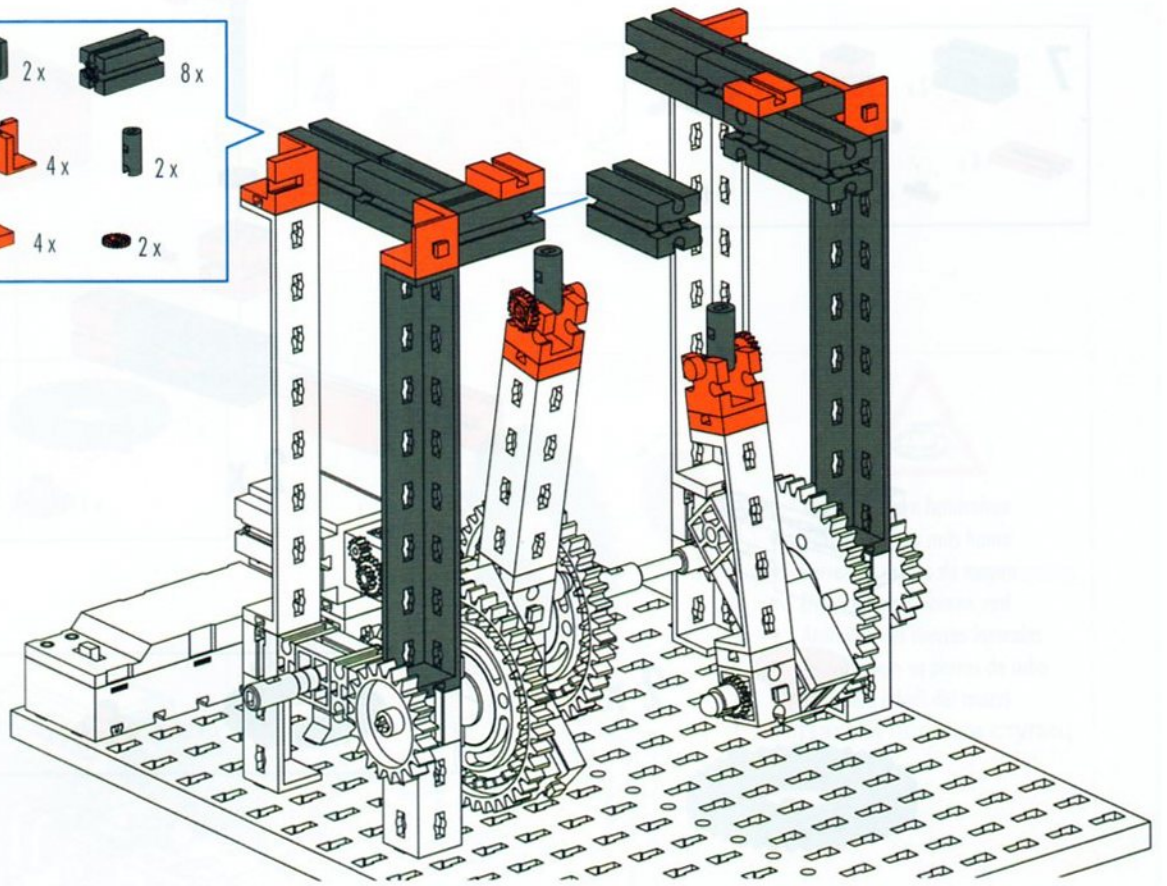
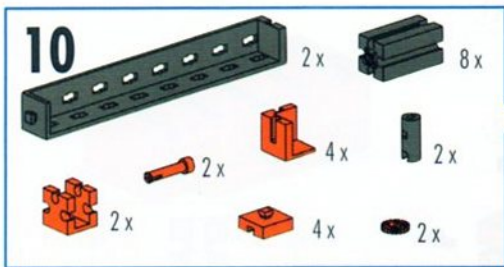
  
 Große Bohrung  
 Large drilling  
 Alésage large  
 Grote boring  
 Perforación grande  
 Orificio grande  
 Grande foro  
 Большое отверстие  
 大孔



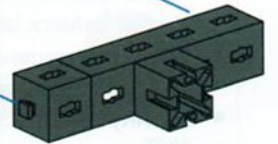
  
 • Nabenmuttern festdrehen  
 • Fasten the hub nuts home  
 • Serrer les écrous de moyeu  
 • Draai de naafmoeren vast  
 • Atornillar las tuercas laterales  
 • Apertar bem as porcas de cubo  
 • Stringere i dadi dei mozzi  
 • Затянуть гайки ступиц  
 • 拧紧

• um 180° versetzt einbauen!  
 • Install offset 180°!  
 • Montage décalé de 180°!  
 • Monteer deze 180° verdraaid!  
 • ¡Montar desplazado 180°!  
 • Monte com um desvio de 180°!  
 • Montare sfalsato di 180°!  
 • Установите смещёнными на 180°!  
 • 旋转 180°后装入！

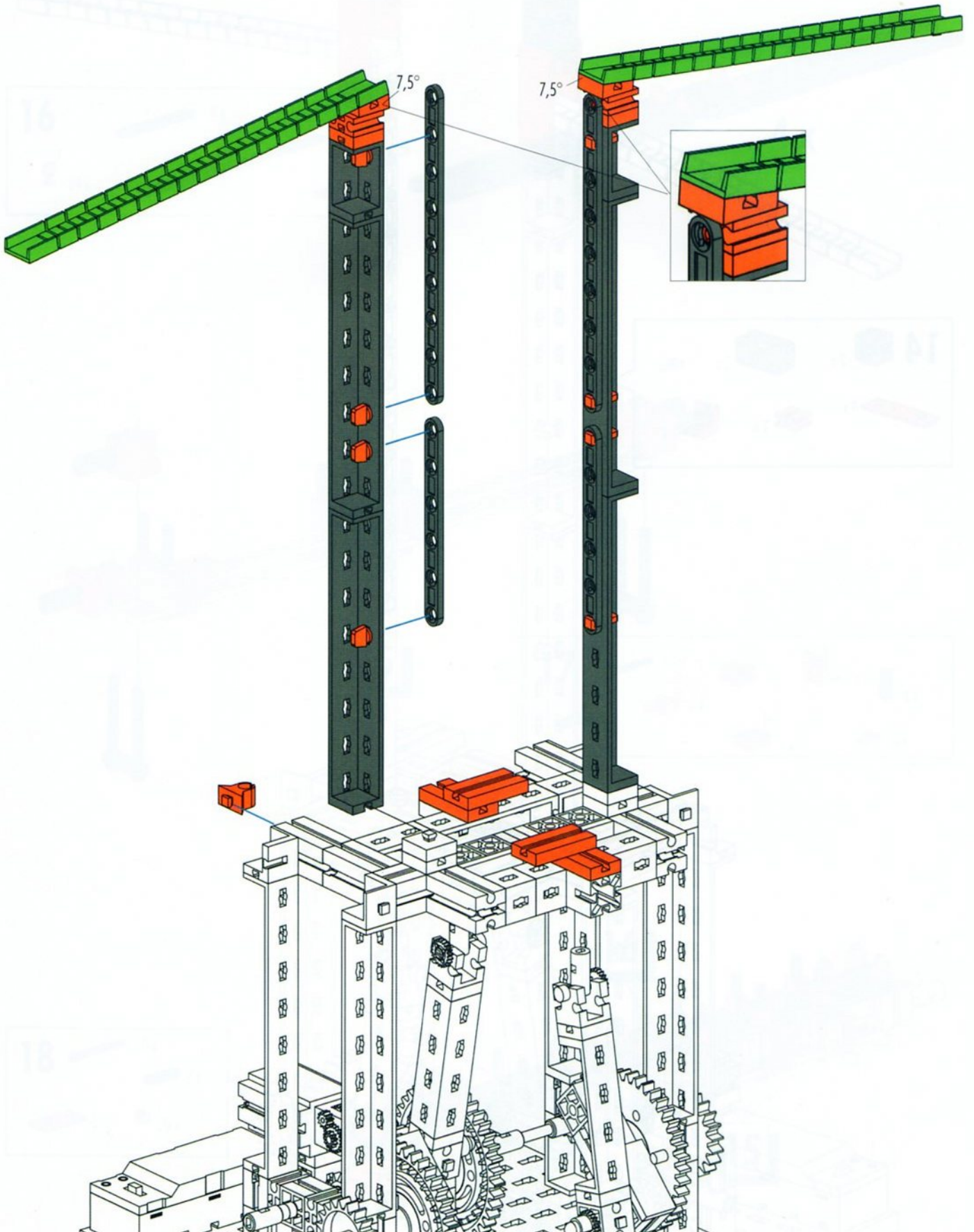
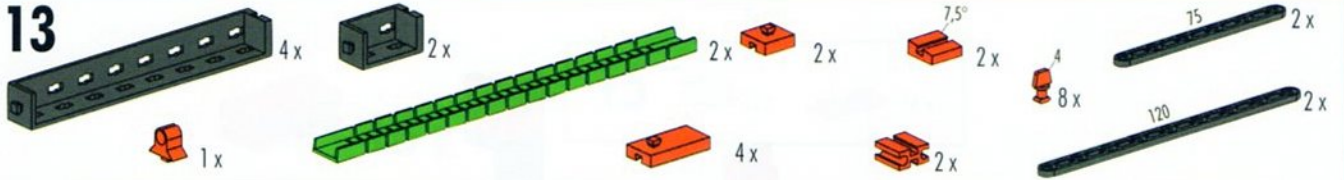









**11**

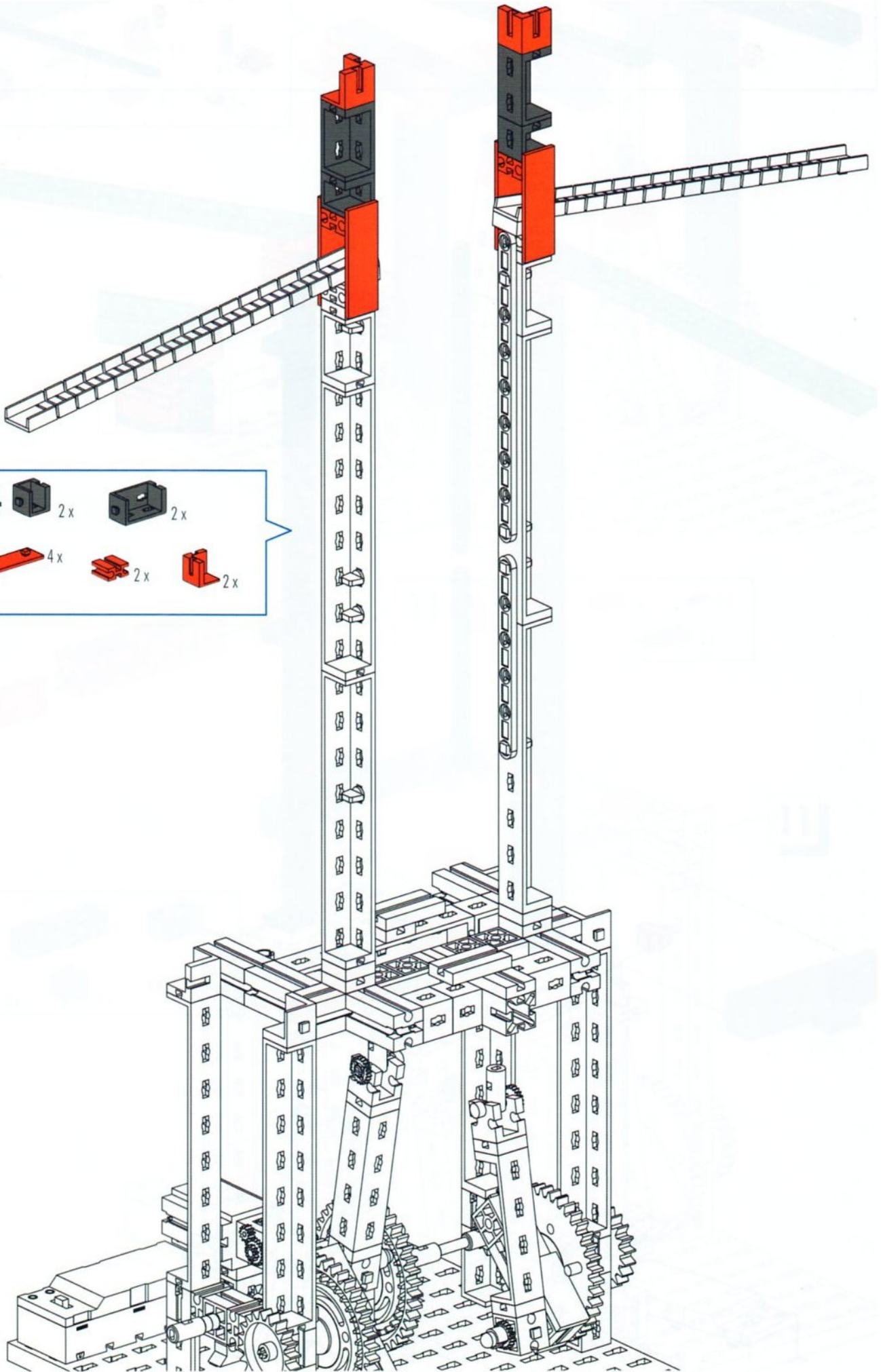


13



**14**

-  2x
-  2x
-  4x
-  2x
-  2x





16 x

15



32 x



16 x

16



8 x



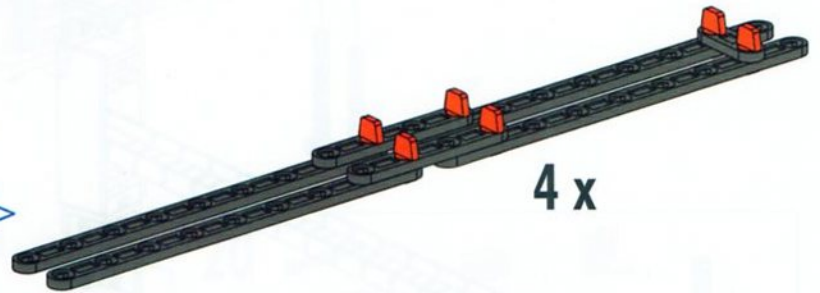
16 x



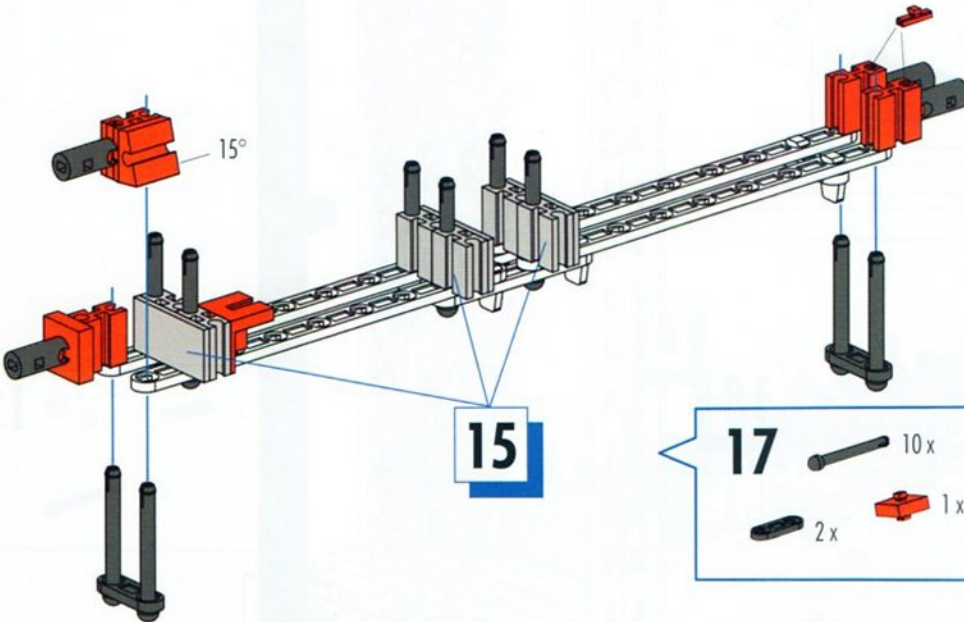
4 x



24 x



4 x



15

17



10 x



2 x



4 x



1 x



4 x



1 x



15°

1 x



3 x

18



10 x



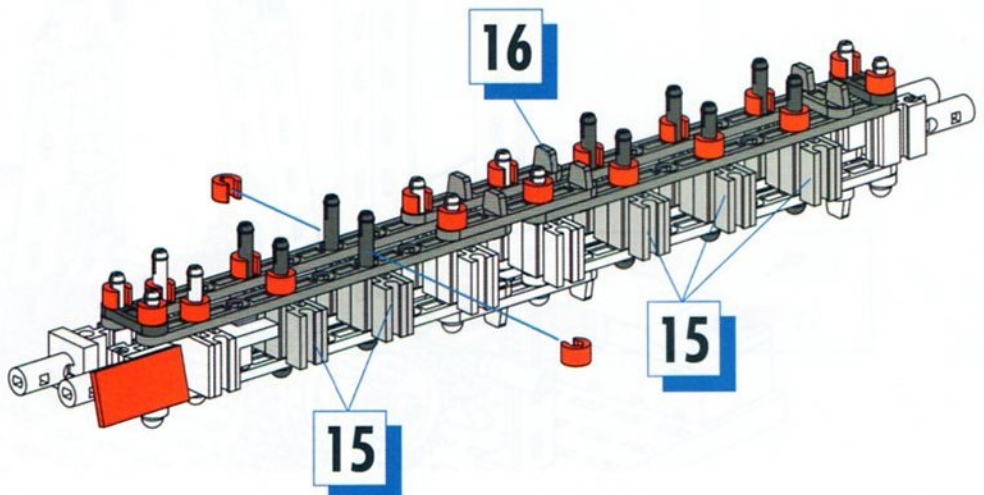
2 x



1 x



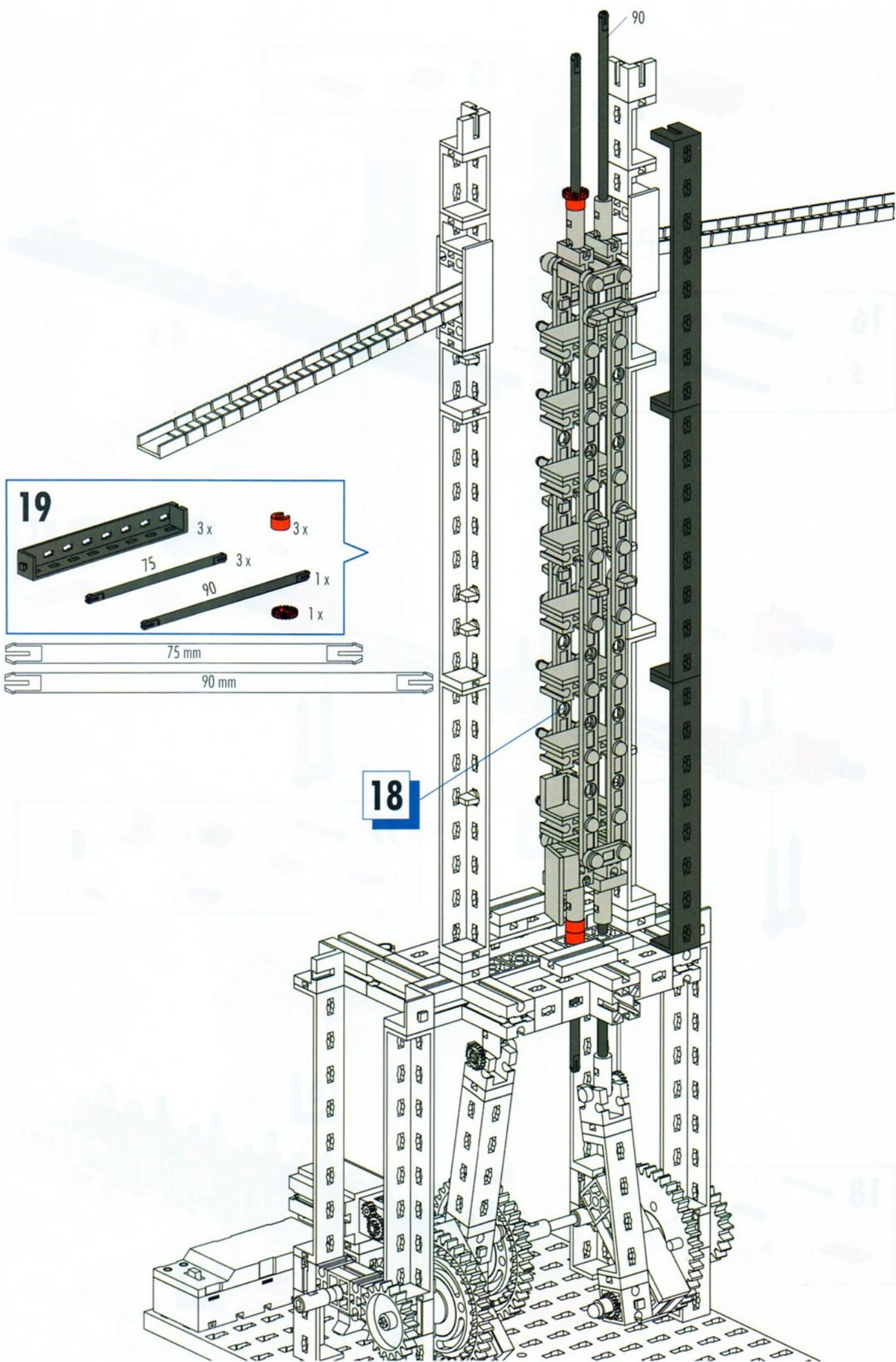
20 x



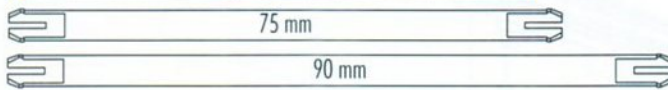
16

15

15

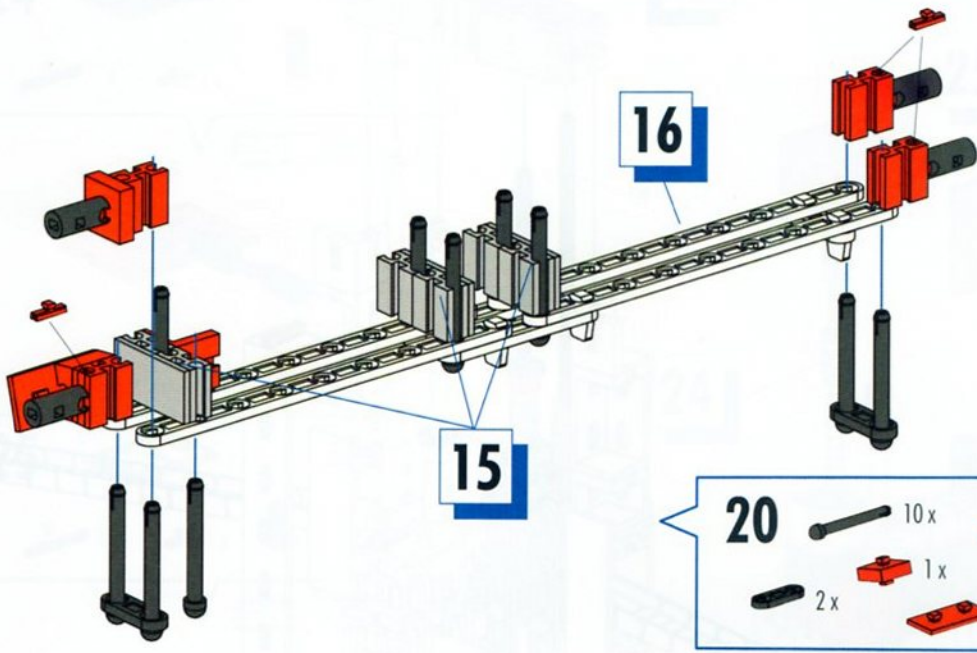


- 19**
- 3x 75
  - 3x 90
  - 3x (Red bush)
  - 1x (Black bush)



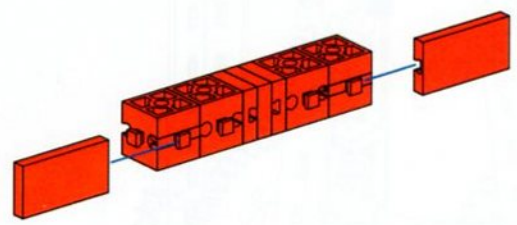
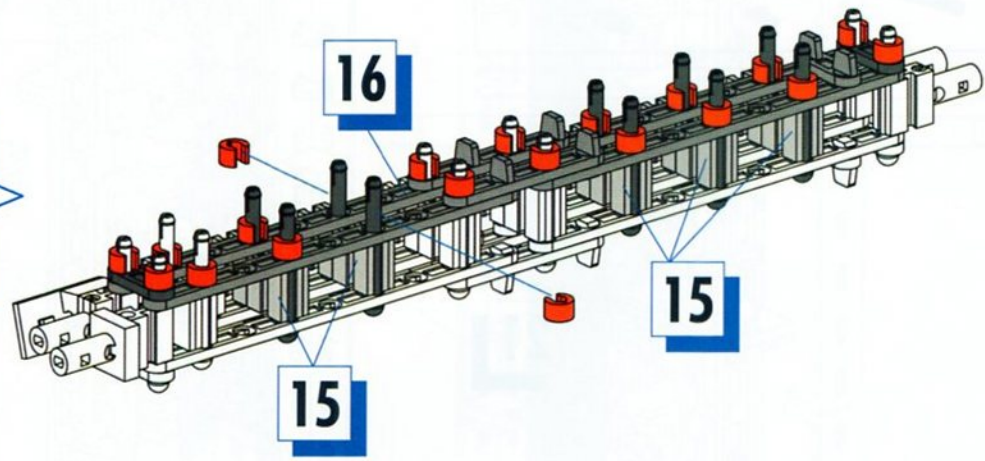
**18**





- 20**
- 10x (black axle)
  - 4x (red 1x2 Technic brick)
  - 1x (red 1x2 Technic brick with hole)
  - 4x (black Technic bush)
  - 2x (black Technic bush)
  - 1x (red 1x2 Technic brick)
  - 1x (red 1x2 Technic brick)
  - 1x (red 1x2 Technic brick with 15° angle)
  - 3x (red 1x2 Technic brick)

- 21**
- 20x (red Technic bush)
  - 2x (black Technic bush)
  - 10x (black axle)



- 22**
- 4x (red Technic axle connector)
  - 2x (red Technic axle connector)
  - 1x (red Technic axle connector)
  - 2x (red Technic axle connector)
  - 2x (red Technic axle connector)

22

90

21

23

15

3 x

3 x

90

1 x

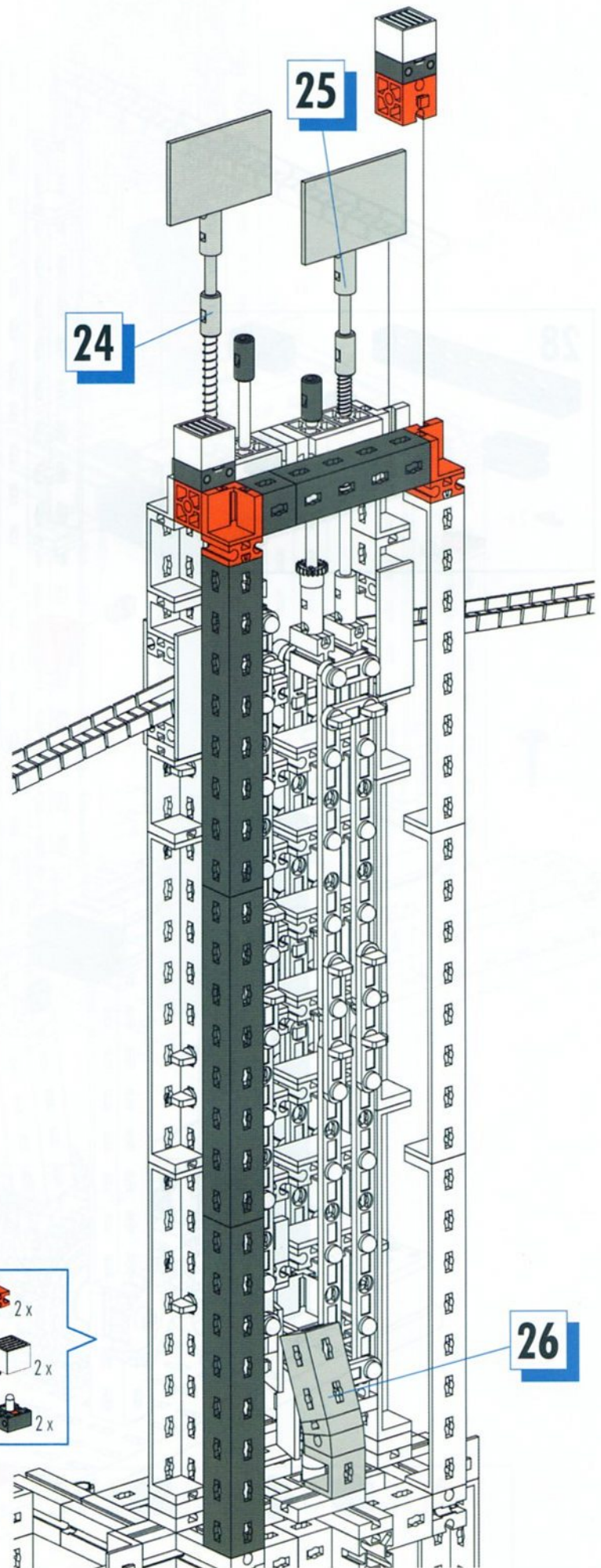
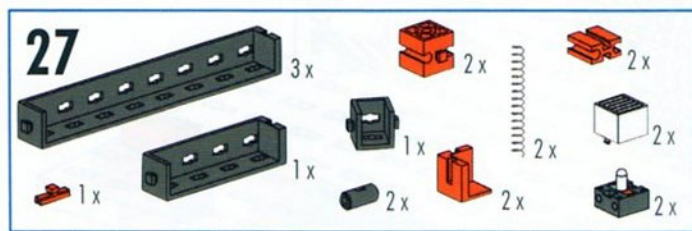
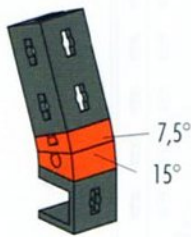
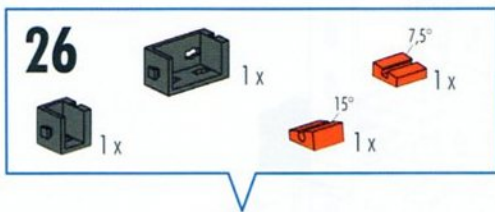
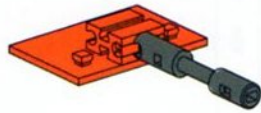
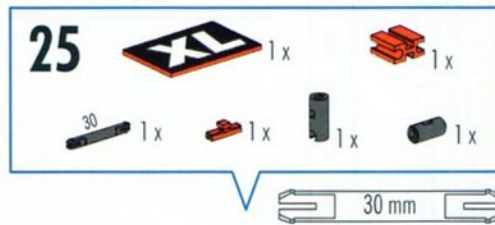
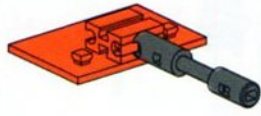
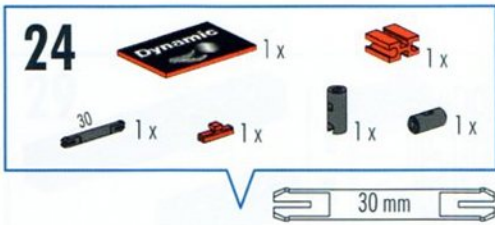
1 x

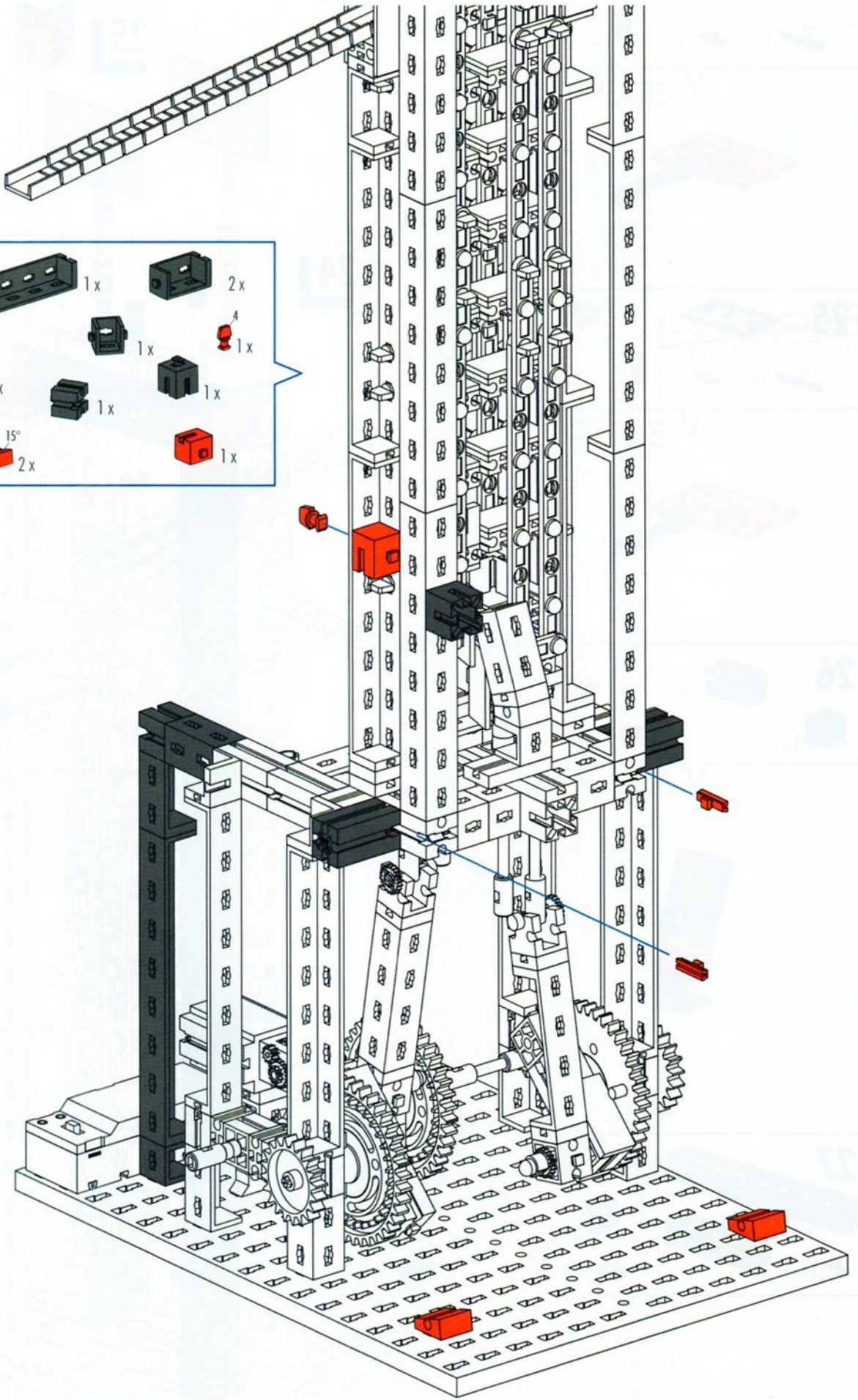
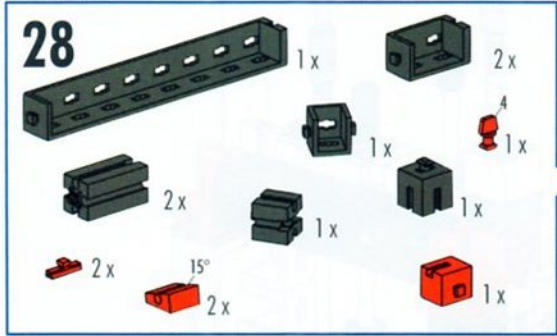
1 x

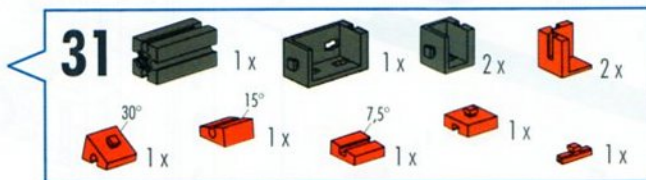
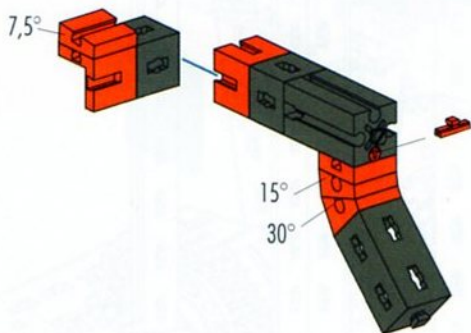
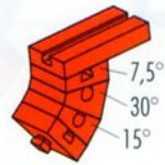
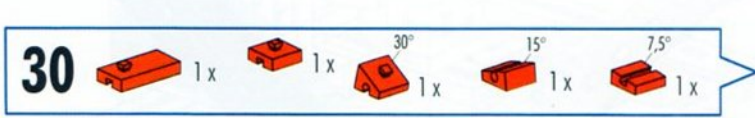
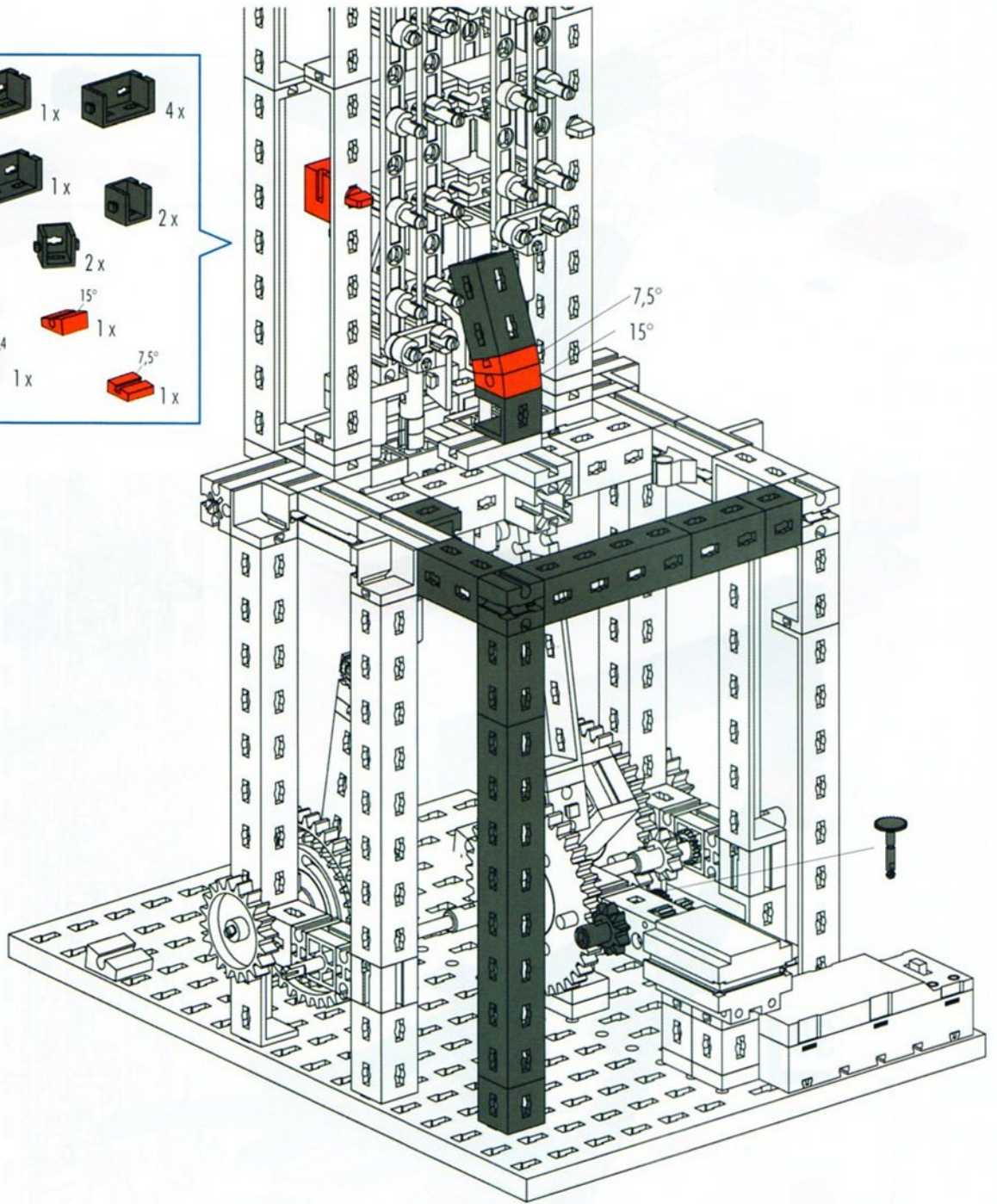
2 x

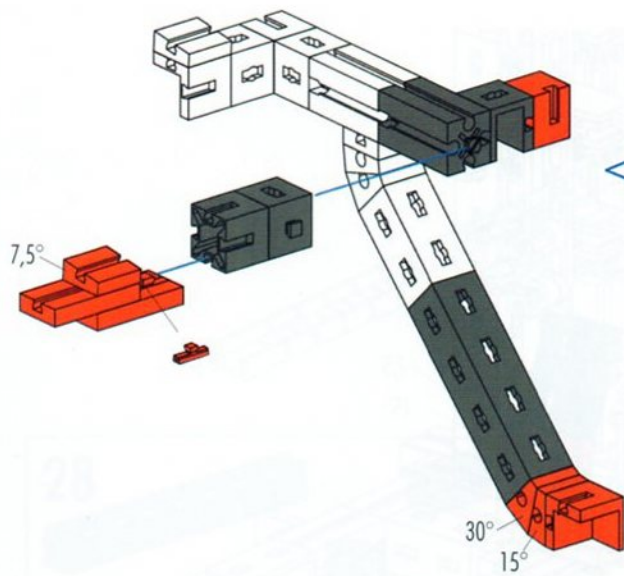
75 mm

90 mm

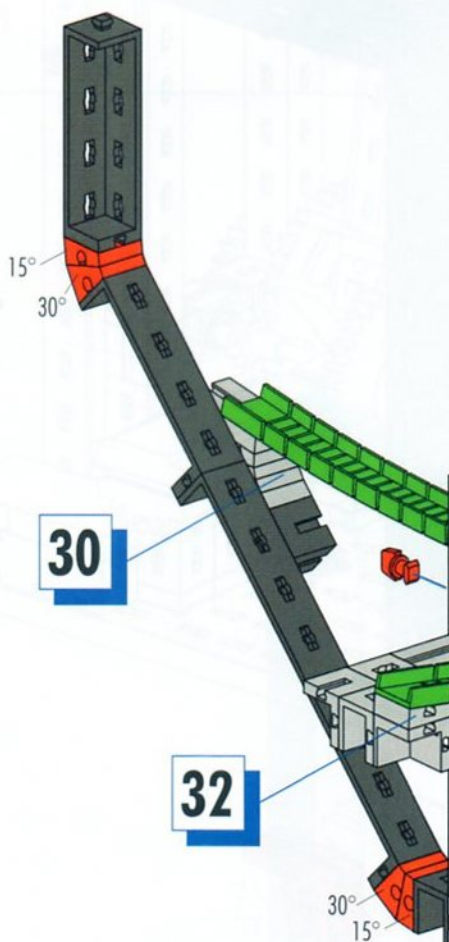






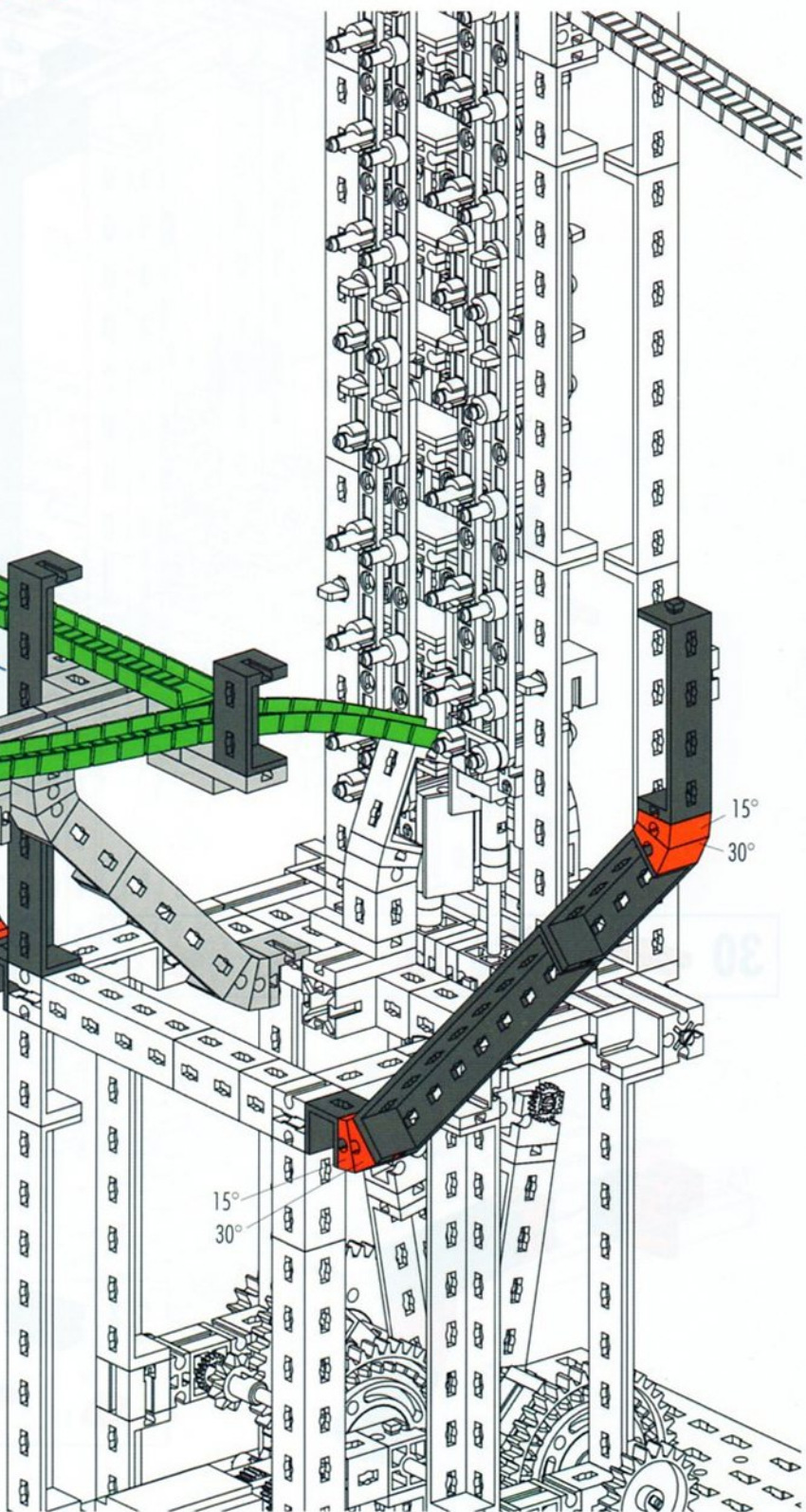


- 32**
- 1x 1x6 grey Technic beam
  - 2x 1x2 grey Technic connector
  - 1x 1x2 grey Technic connector
  - 1x 1x4 grey Technic connector
  - 1x 1x2 red Technic connector
  - 2x 1x2 red Technic connector
  - 1x 1x2 red Technic connector (30°)
  - 1x 1x2 red Technic connector (15°)
  - 1x 1x2 red Technic connector (7.5°)
  - 1x 1x2 red Technic connector
  - 1x 1x2 red Technic connector

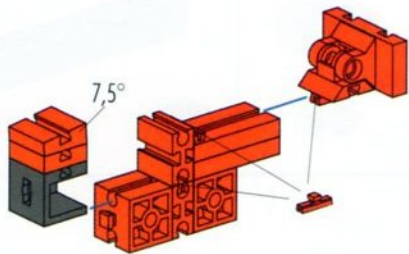


**30**

**32**

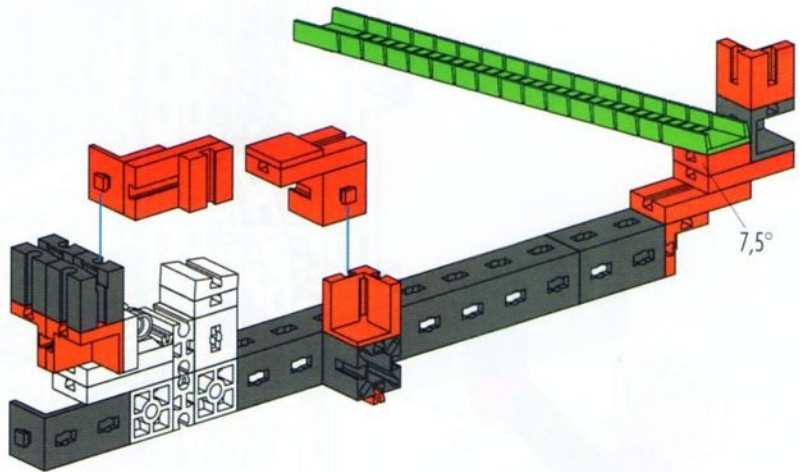


- 33**
- 3x 1x6 grey Technic beam
  - 1x 1x2 grey Technic connector
  - 2x 1x2 grey Technic connector
  - 4x 1x4 grey Technic connector
  - 1x 1x2 grey Technic connector
  - 2x 1x6 green Technic beam
  - 1x 1x2 red Technic connector
  - 4x 1x2 red Technic connector (15°)
  - 4x 1x2 red Technic connector (30°)

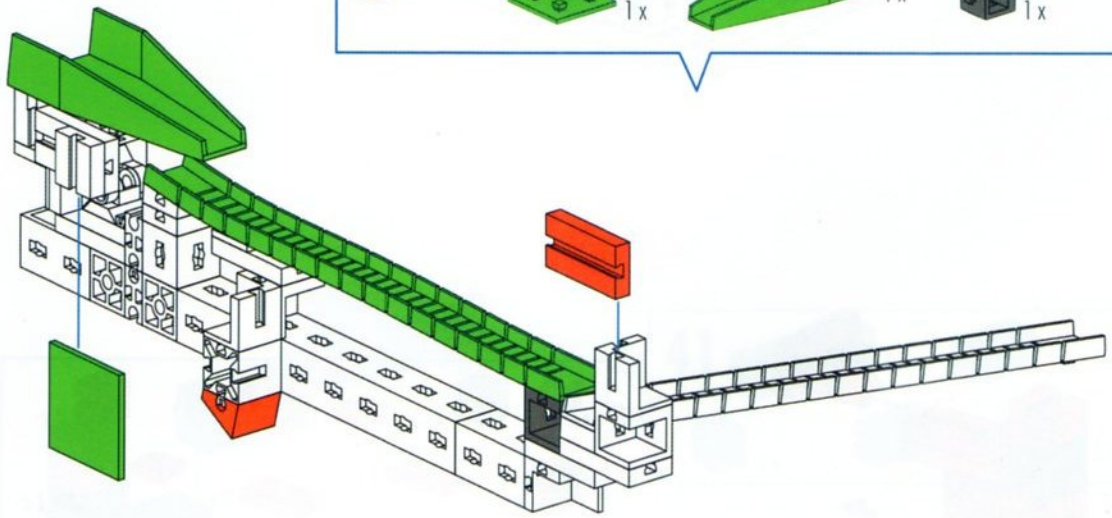


- 34**
- 1x [Grey 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]
  - 2x [Red 1x3 Technic Pin]
  - 2x [Red 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]
  - 2x [Red 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]
  - 3x [Red 1x3 Technic Pin]

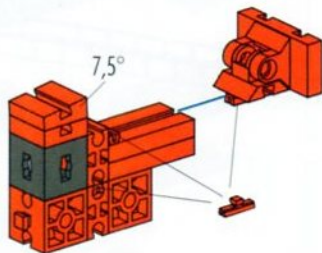
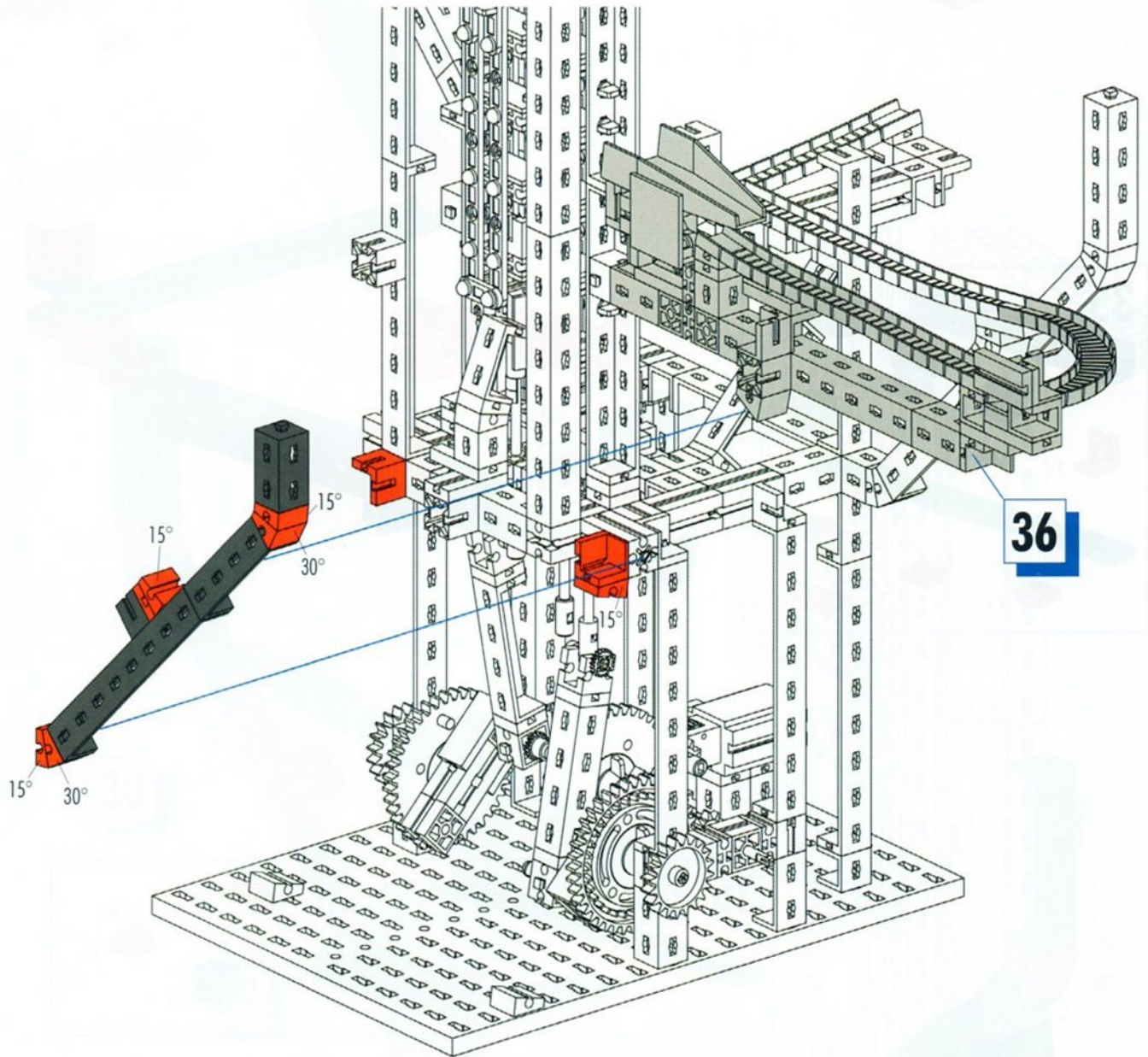
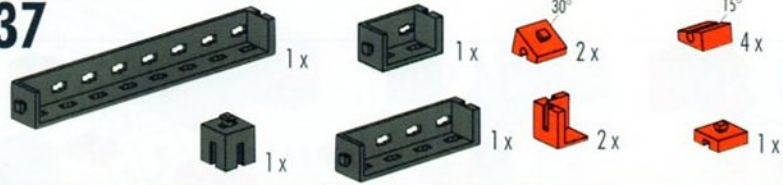
- 35**
- 1x [Grey 1x10 Technic Beam]
  - 2x [Grey 1x3 Technic Pin]
  - 1x [Grey 1x3 Technic Pin]
  - 2x [Grey 1x3 Technic Pin]
  - 1x [Grey 1x3 Technic Pin]
  - 7x [Red 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]
  - 1x [Green 1x10 Technic Beam]
  - 1x [Red 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]
  - 4x [Red 1x3 Technic Pin]



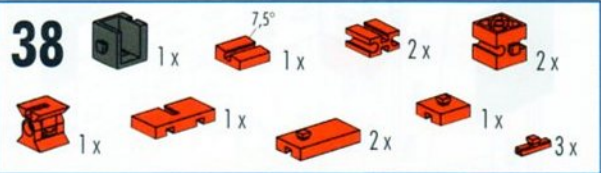
- 36**
- 1x [Green 1x10 Technic Beam]
  - 1x [Red 1x3 Technic Pin]
  - 1x [Green 1x3 Technic Pin]
  - 1x [Green 1x3 Technic Pin]
  - 1x [Grey 1x3 Technic Pin]
  - 1x [Red 1x3 Technic Pin]



37

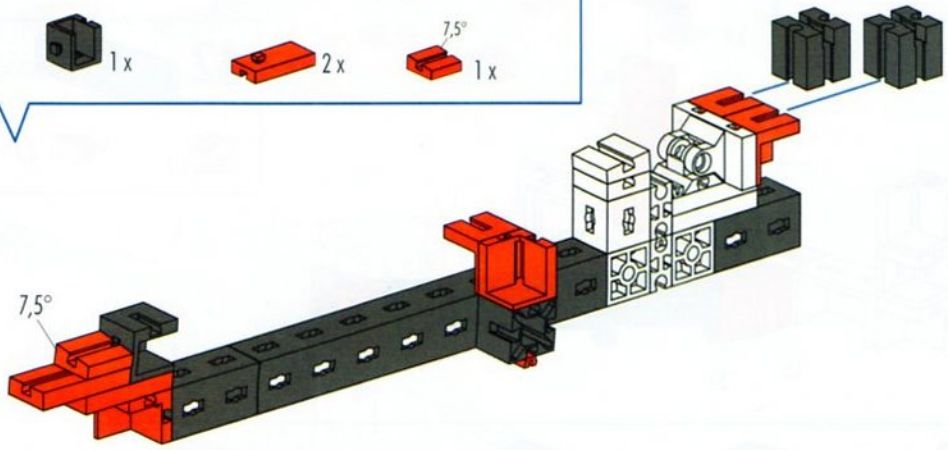
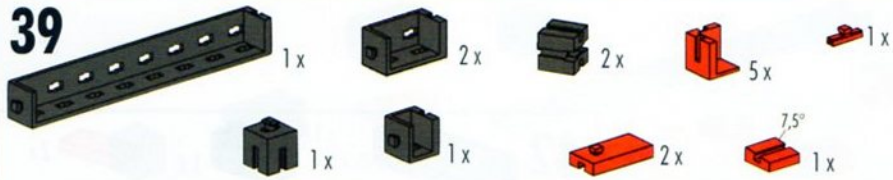


38

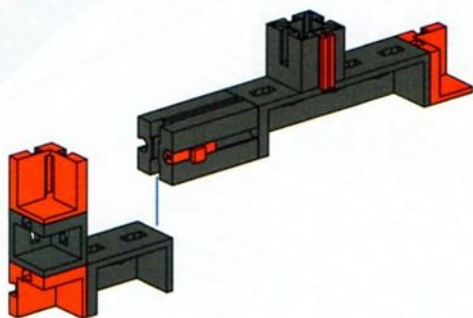
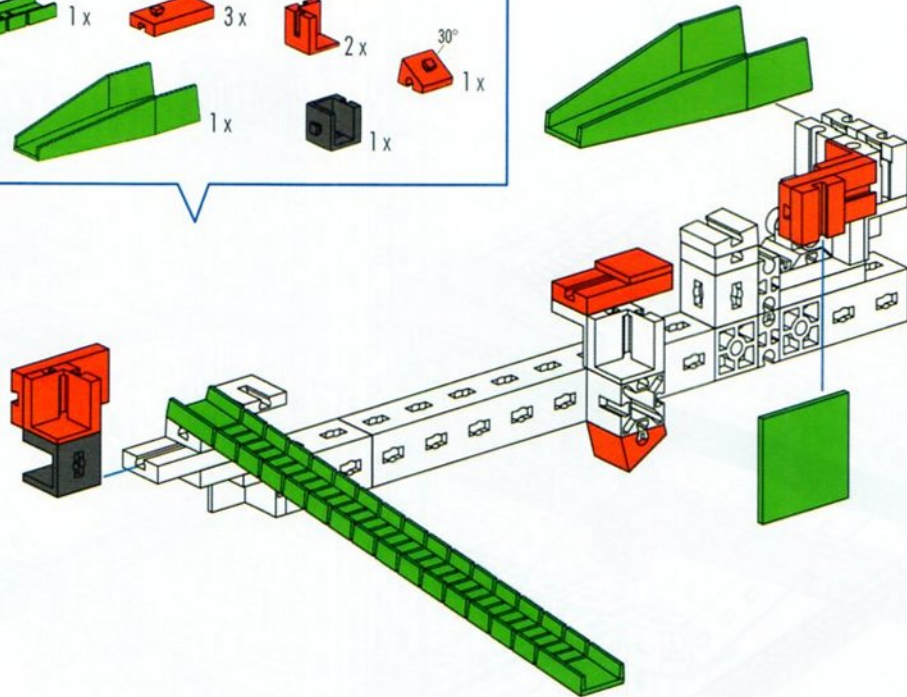
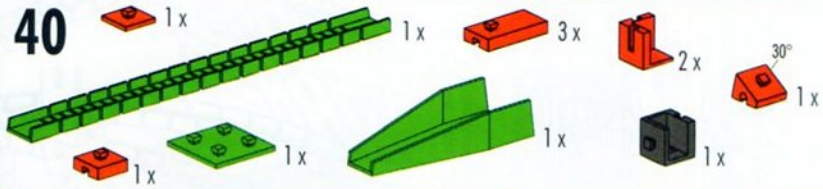




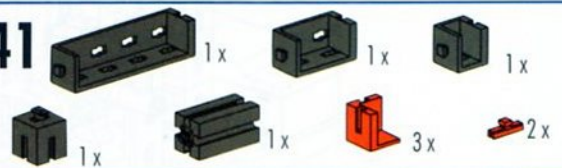
39

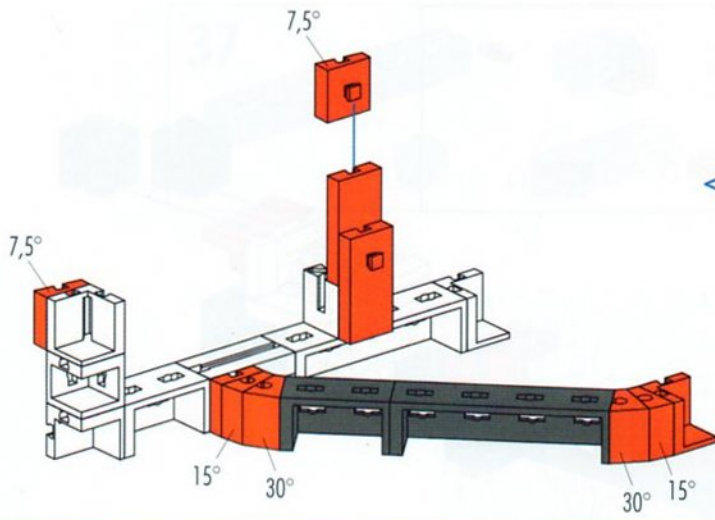


40



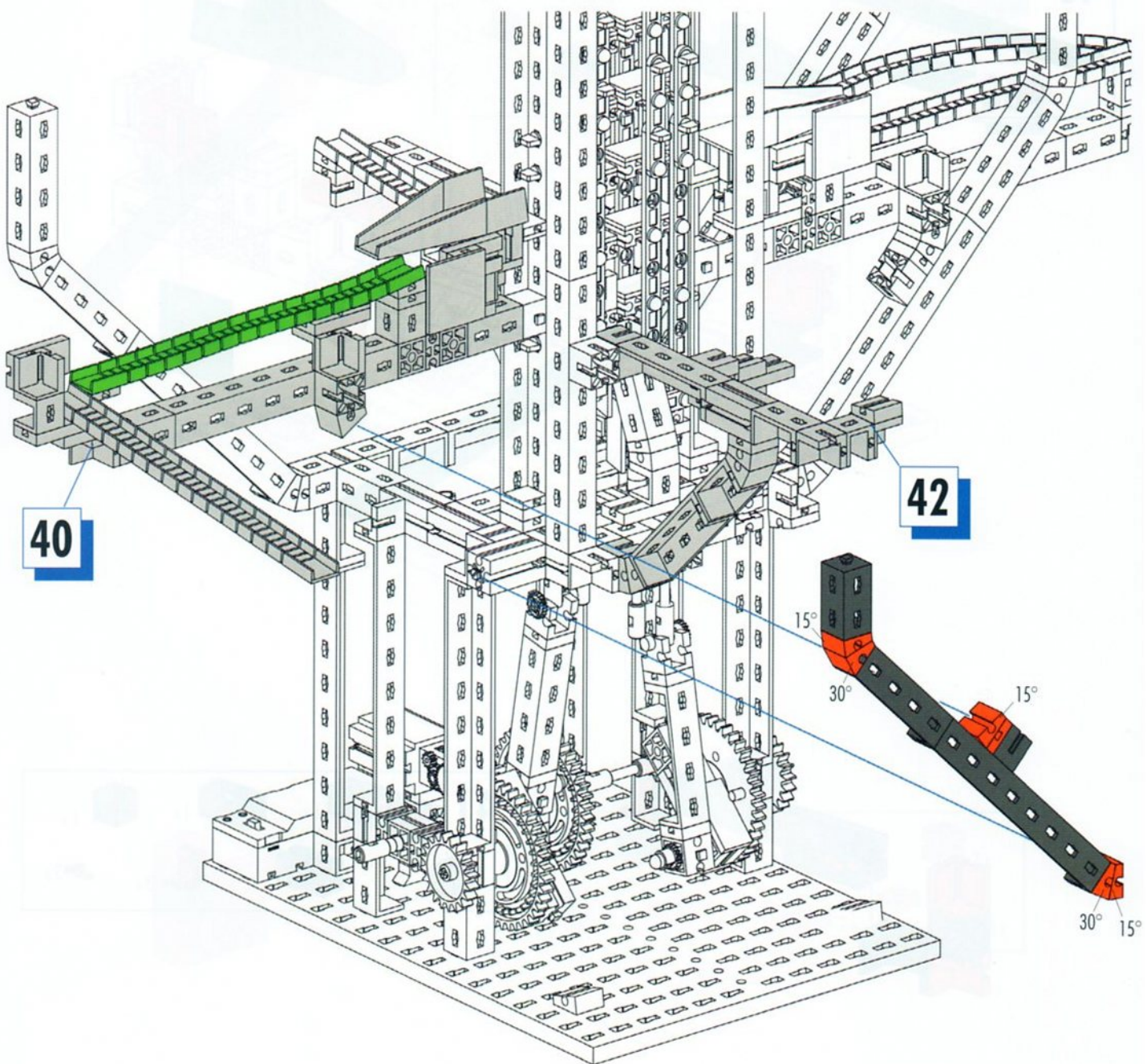
41





- 42**
- 1 x [Black 1-hole Technic Beam]
  - 1 x [Black 1-hole Technic Connector]
  - 2 x [Orange 1-hole Technic Connector]
  - 2 x [Orange 30-degree Technic Connector]
  - 2 x [Orange 15-degree Technic Connector]
  - 2 x [Orange 7.5-degree Technic Connector]
  - 1 x [Orange 1-hole Technic Connector]
  - 1 x [Orange 1-hole Technic Connector]

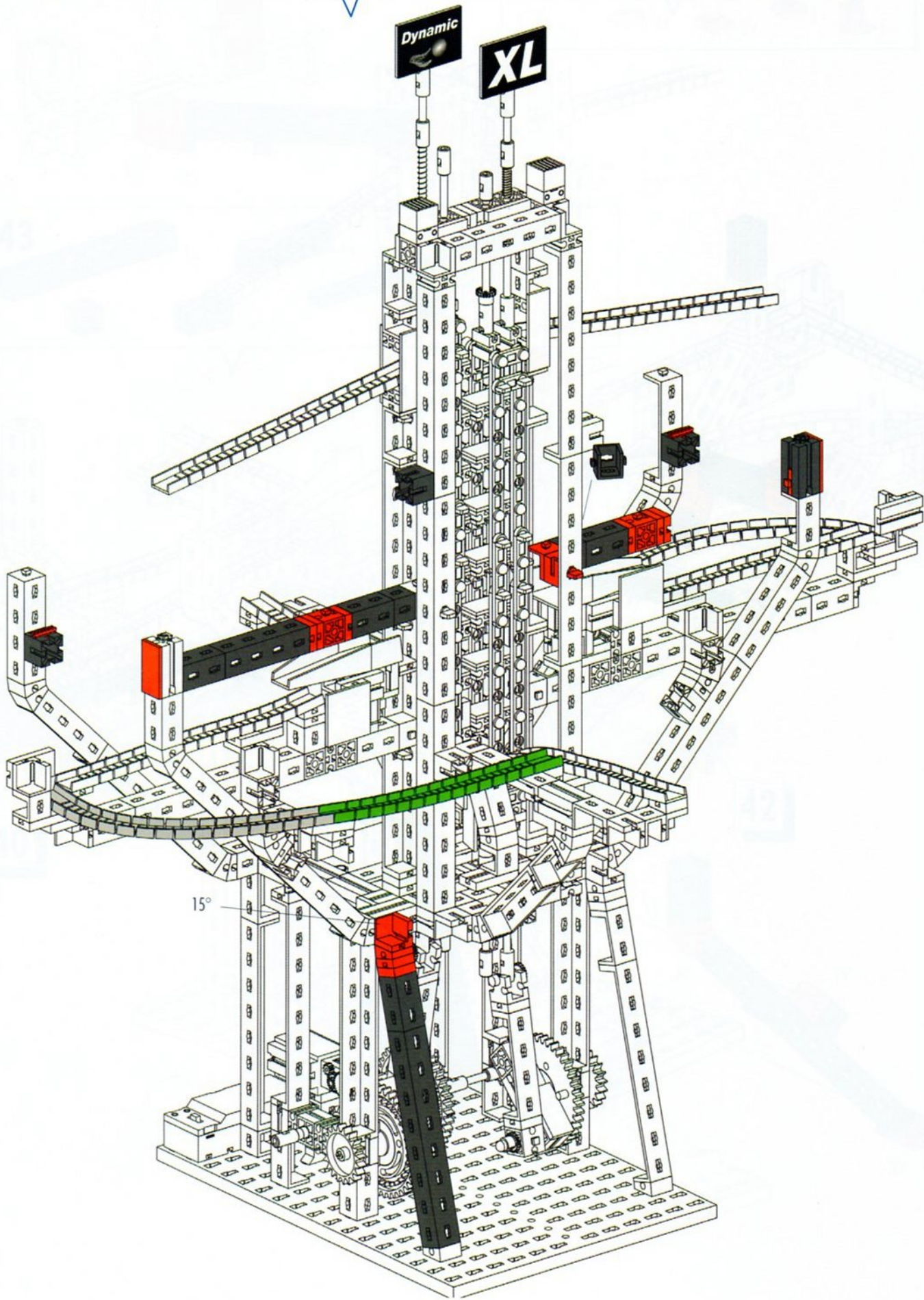
- 43**
- 1 x [Black 1-hole Technic Beam]
  - 1 x [Black 1-hole Technic Connector]
  - 1 x [Green 1-hole Technic Beam]
  - 1 x [Black 1-hole Technic Connector]
  - 1 x [Orange 1-hole Technic Connector]
  - 3 x [Orange 15-degree Technic Connector]
  - 2 x [Orange 30-degree Technic Connector]



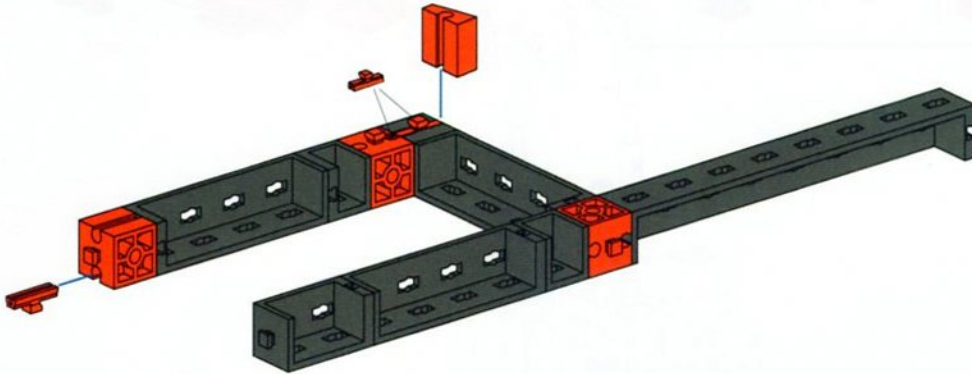


45

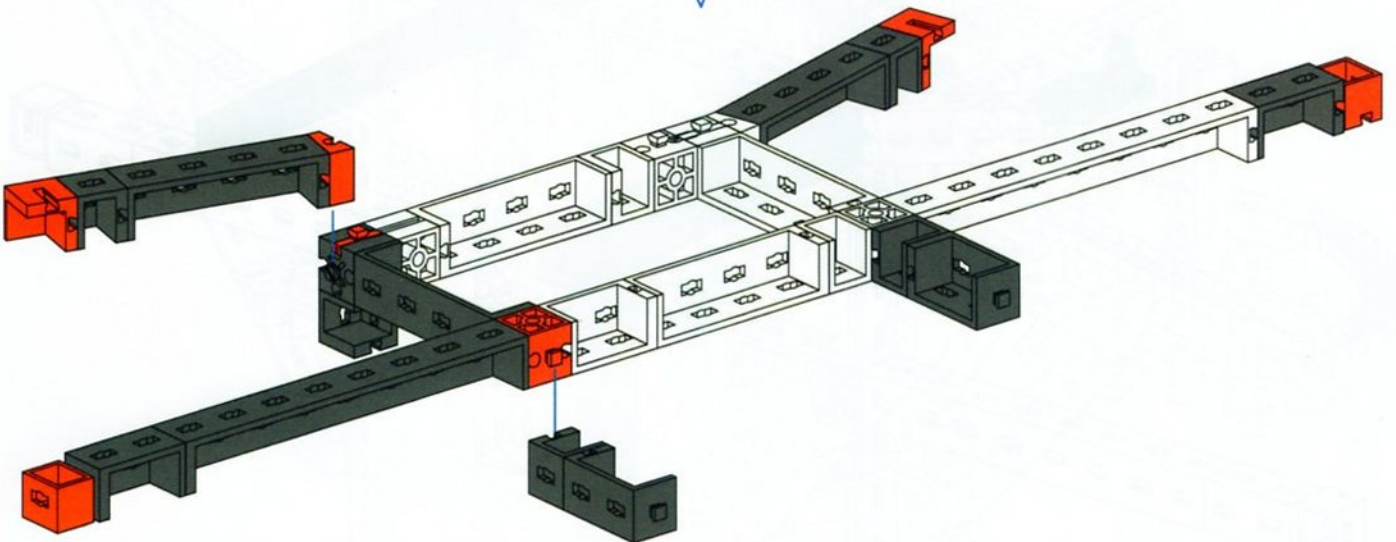
- 1x black 1-hole Technic beam (10 holes)
- 1x black 1-hole Technic beam (5 holes)
- 4x black 1-hole Technic bush
- 1x black 1-hole Technic bush with friction ridge
- 2x black 1-hole Technic bush with friction ridge
- 3x black 1-hole Technic bush with friction ridge
- 1x green 1-hole Technic beam (10 holes)
- 1x red 1-hole Technic bush
- 1x red 1-hole Technic bush with friction ridge
- 7x red 1-hole Technic bush with friction ridge
- 1x red 1-hole Technic bush with friction ridge (15°)
- 1x red 1-hole Technic bush with friction ridge (15°)
- 3x red 1-hole Technic bush with friction ridge (15°)
- 2x red 1-hole Technic bush with friction ridge (15°)
- 1x red 1-hole Technic bush with friction ridge (15°)
- 2x red 1-hole Technic bush with friction ridge (15°)
- 2x red 1-hole Technic bush with friction ridge (15°)
- 1x red 1-hole Technic bush with friction ridge (15°)
- 1x red 1-hole Technic bush with friction ridge (15°)



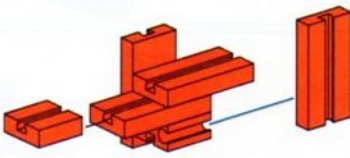
46





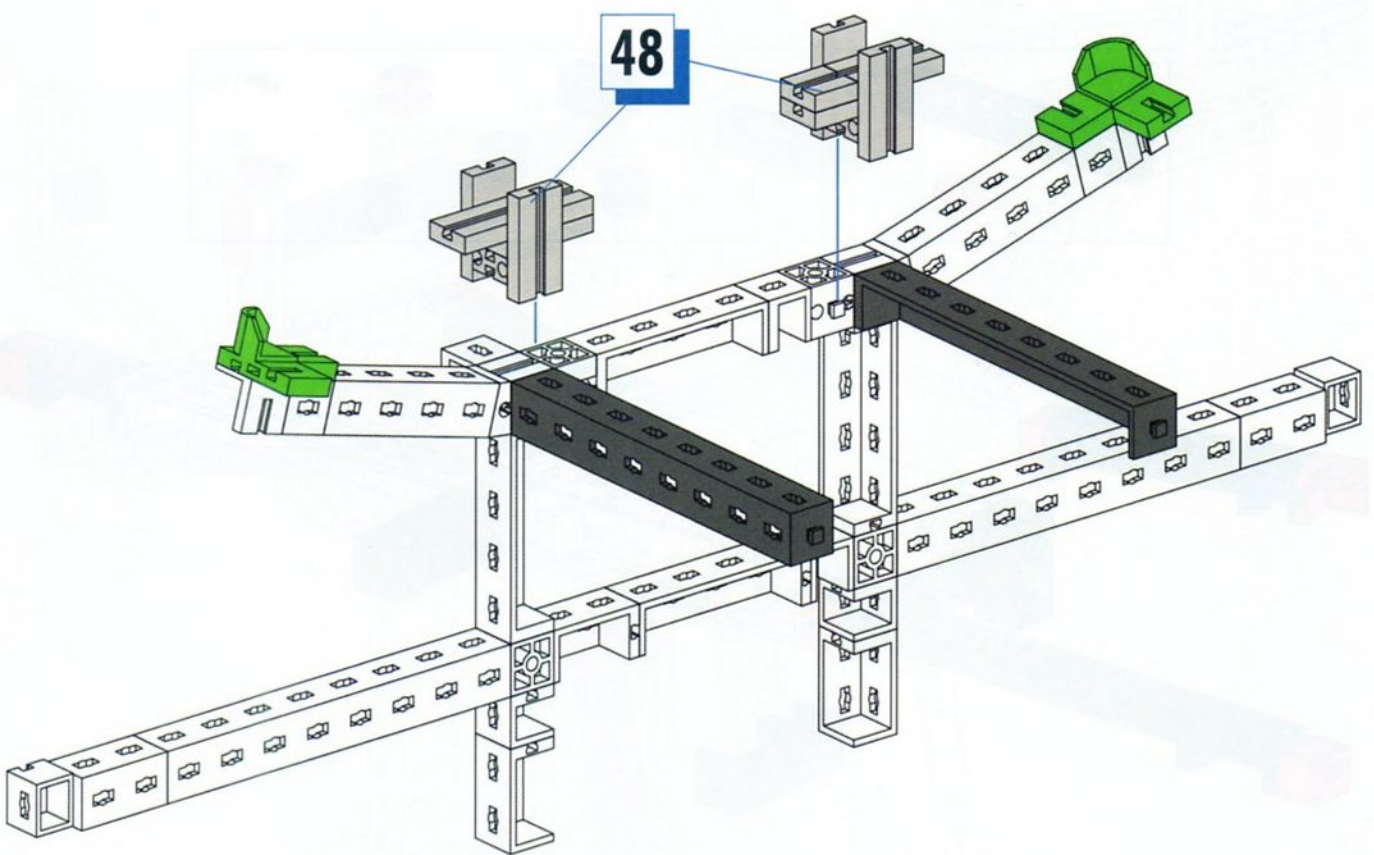
47



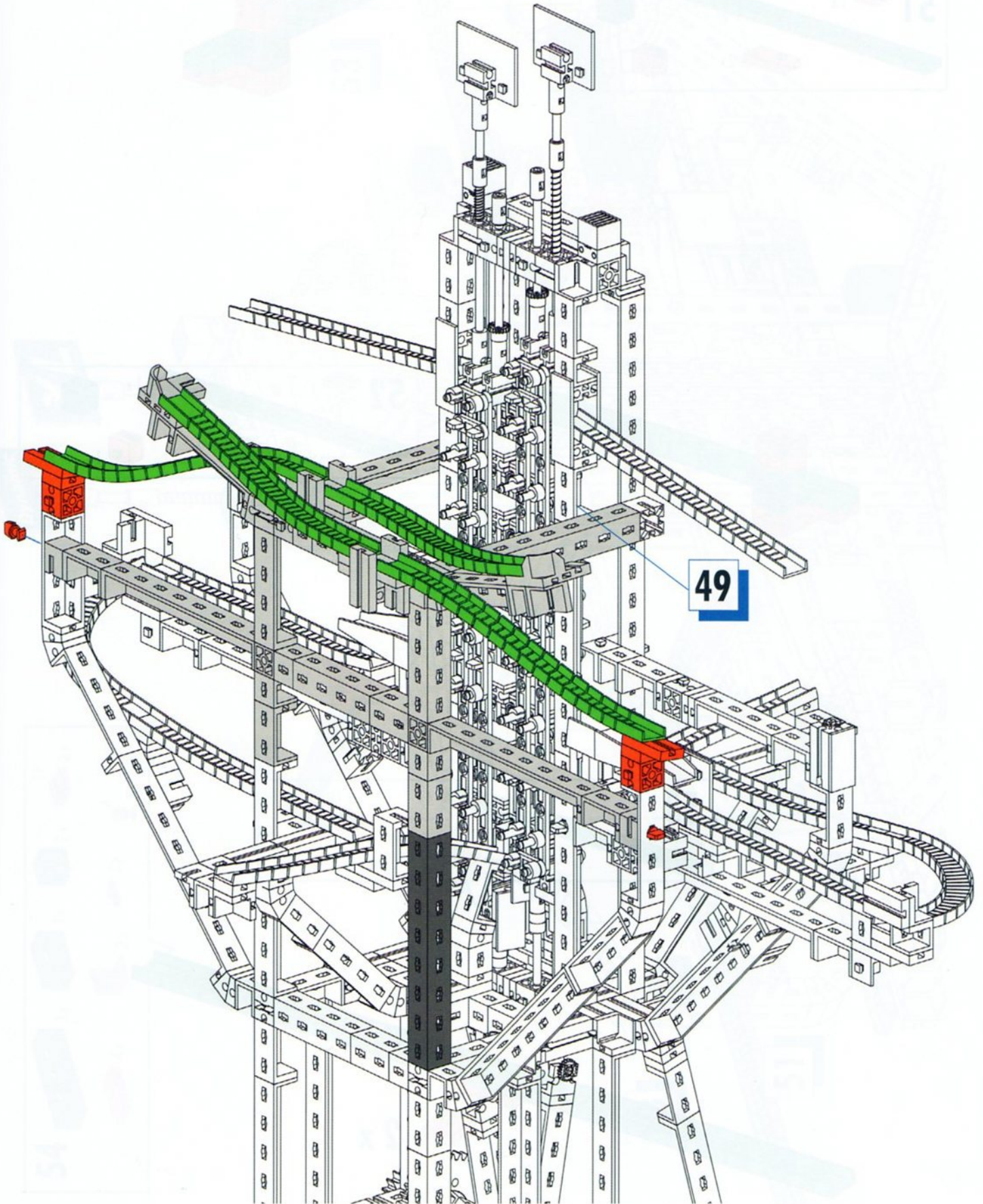
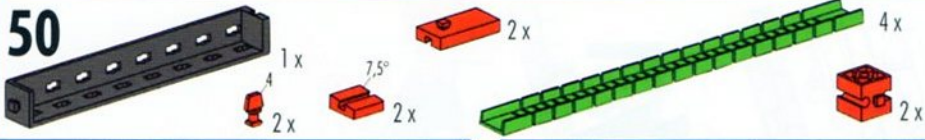
**48**  8x  2x  2x

 **2x**


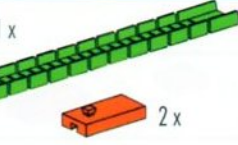



**49**  2x  2x

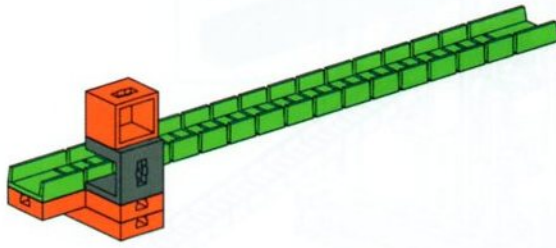
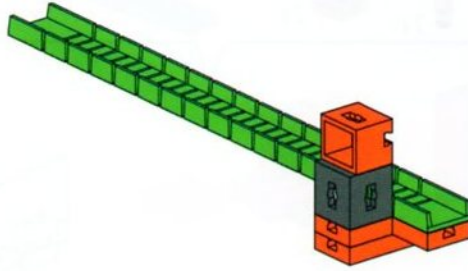


50


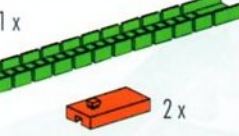





51

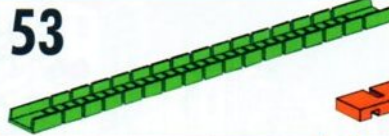


-  1x
-  1x
-  1x
-  2x
-  1x

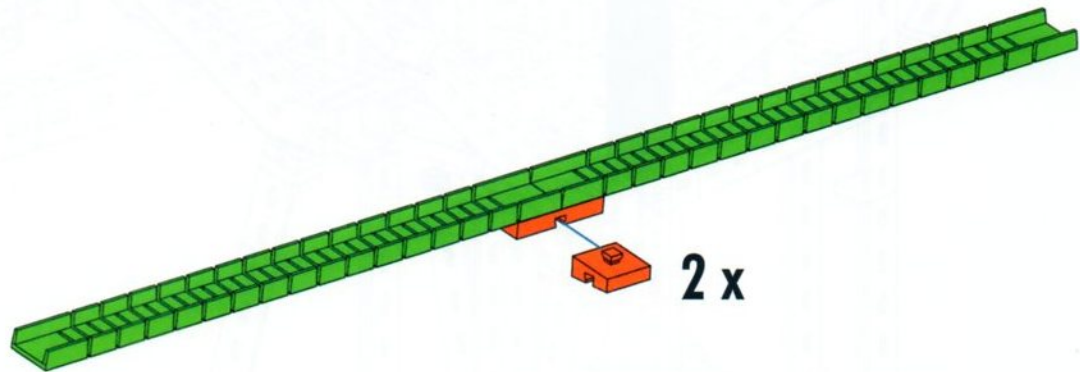


52

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

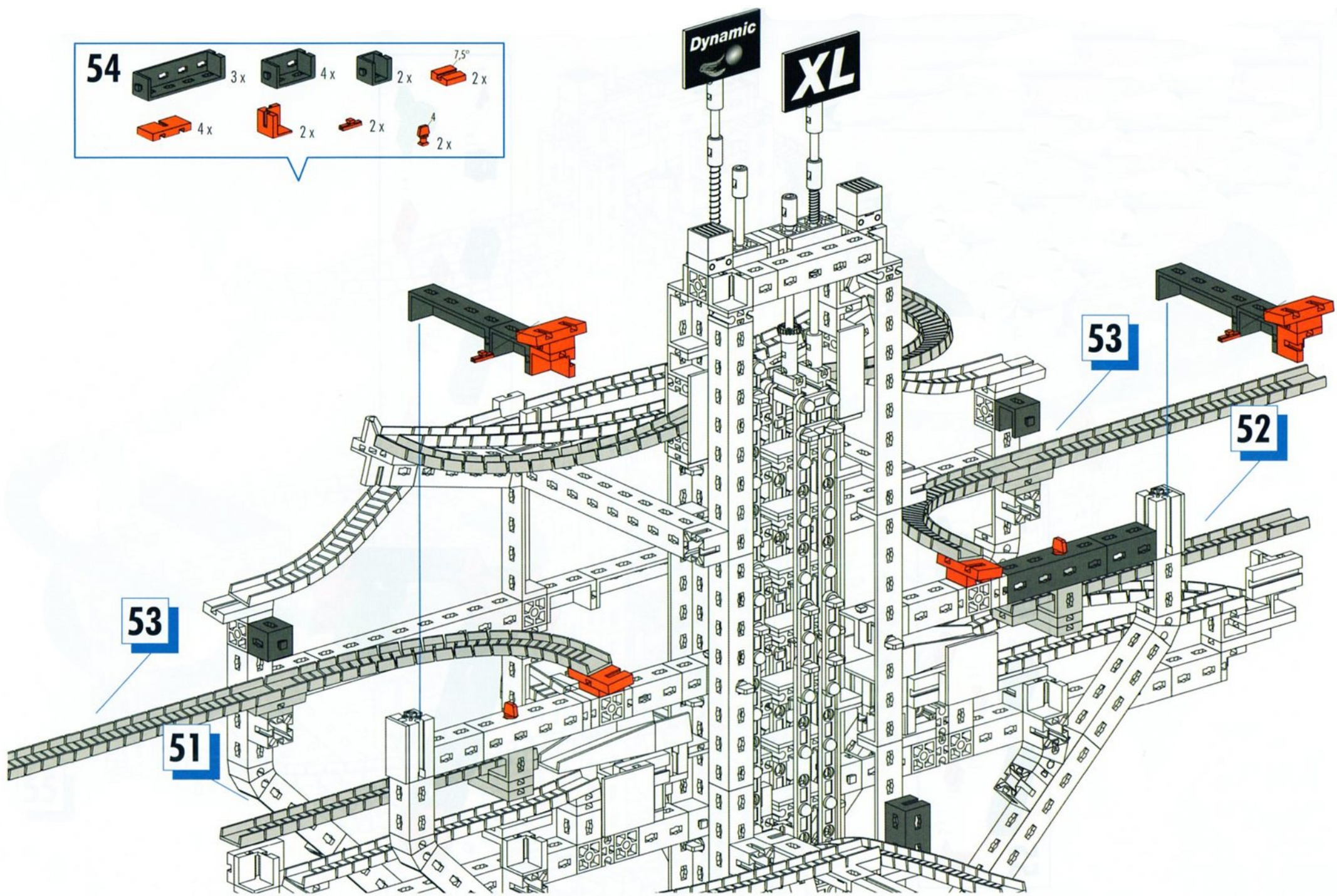
53

-  4x
-  2x
-  2x





- 54**
- 3 x [Grey Technic Beam 1x5 with 2 holes]
  - 4 x [Grey Technic Beam 1x3 with 2 holes]
  - 2 x [Grey Technic Beam 1x2 with 2 holes]
  - 2 x [Red Technic Beam 1x2 with 2 holes]
  - 4 x [Red Technic Beam 1x2 with 2 holes]
  - 2 x [Red Technic Beam 1x3 with 2 holes]
  - 2 x [Red Technic Beam 1x2 with 2 holes]
  - 2 x [Red Technic Pin with Friction Ridge]

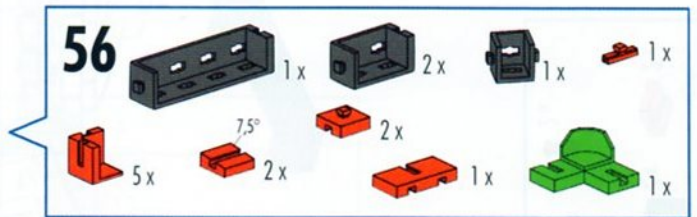
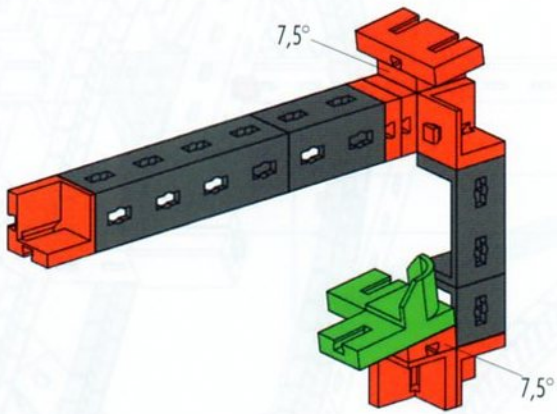
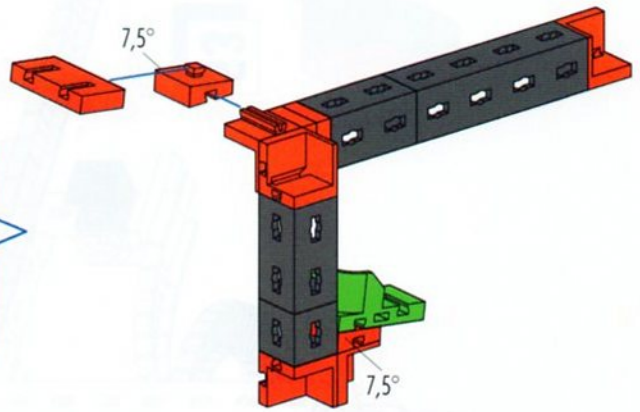
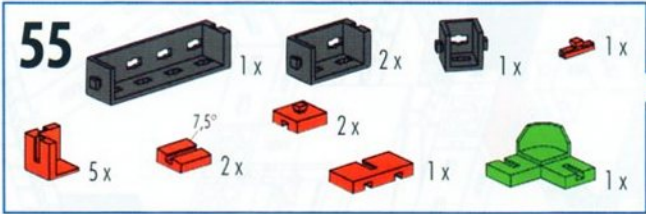


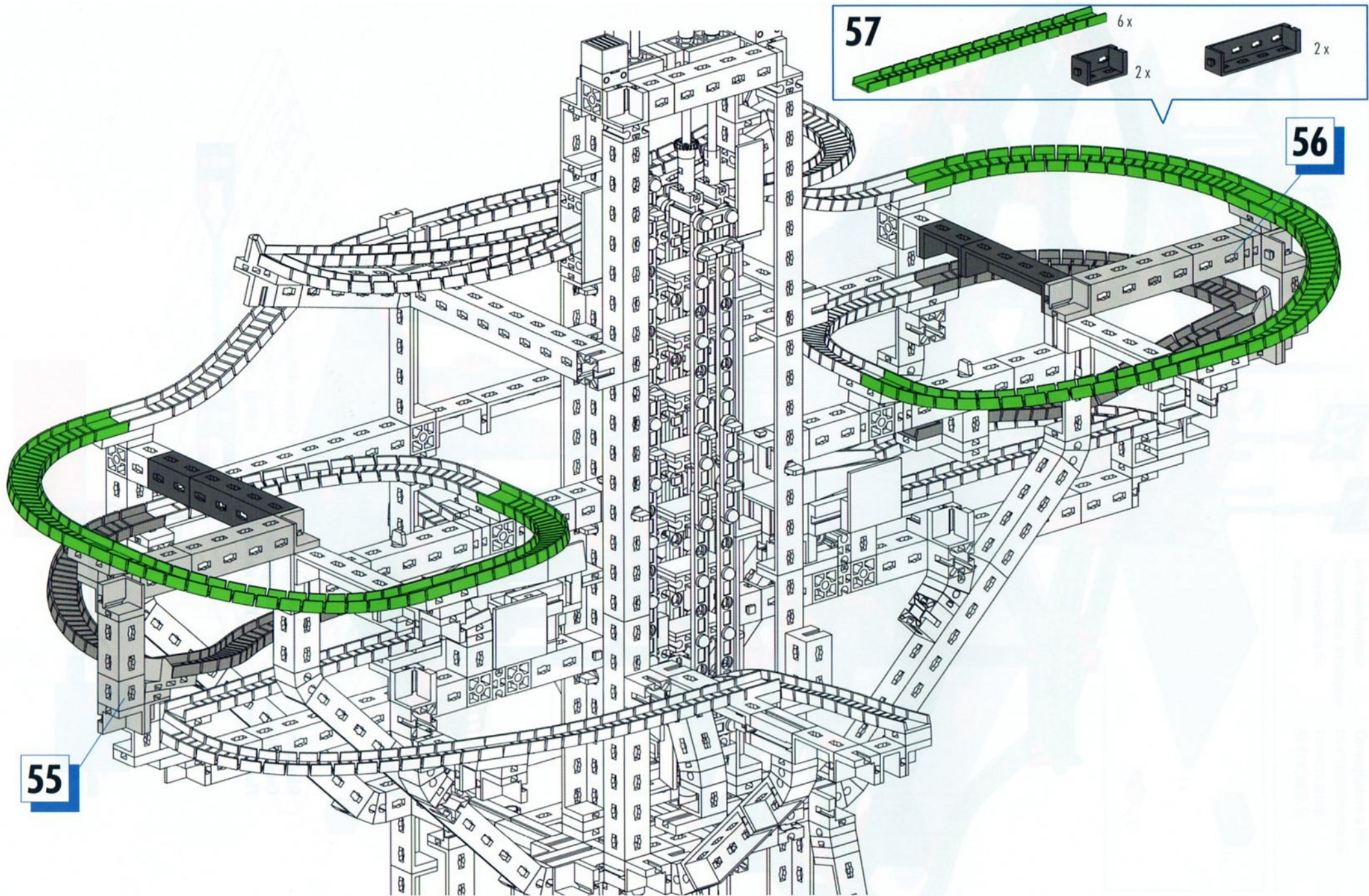
**53**

**53**

**52**

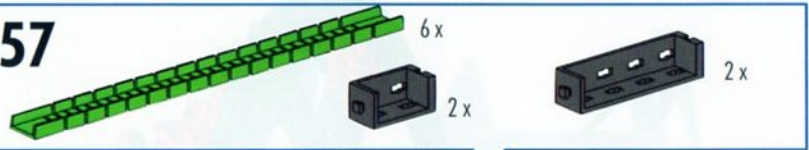
**51**



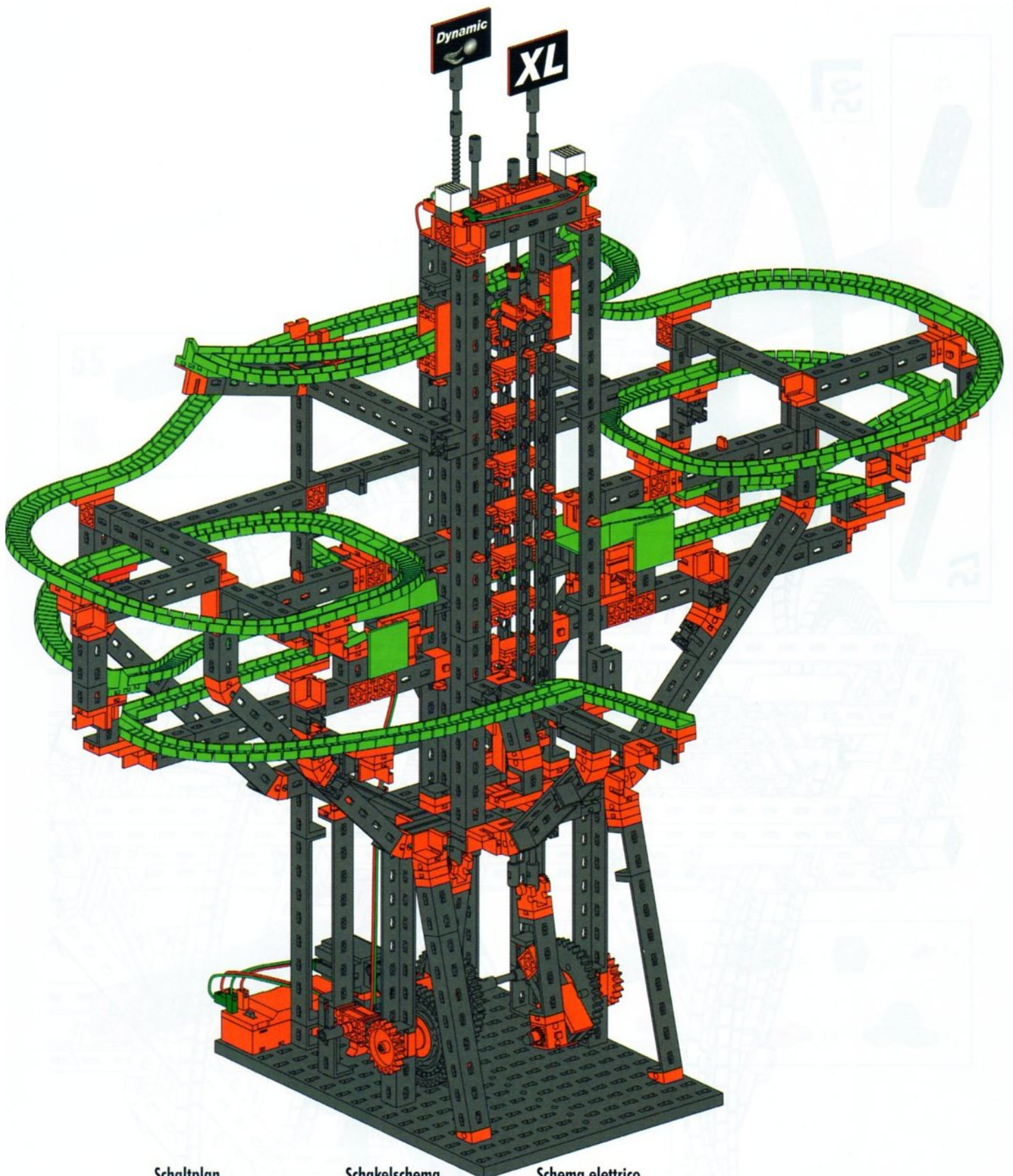


55

57



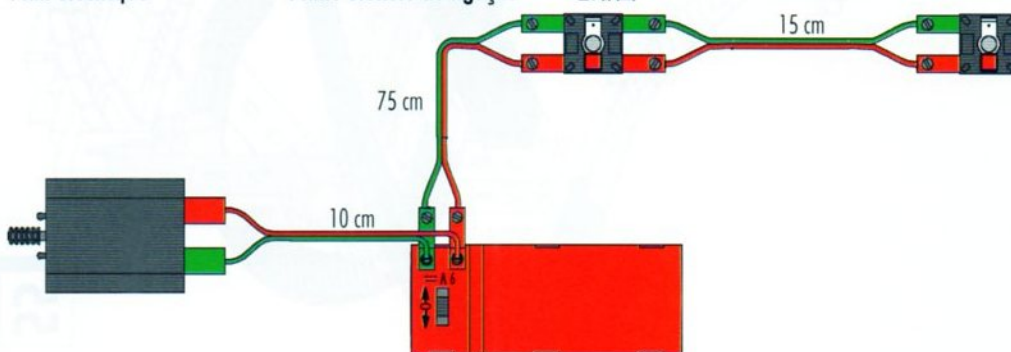
56



Schaltplan  
Circuit diagram  
Plan électrique

Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图

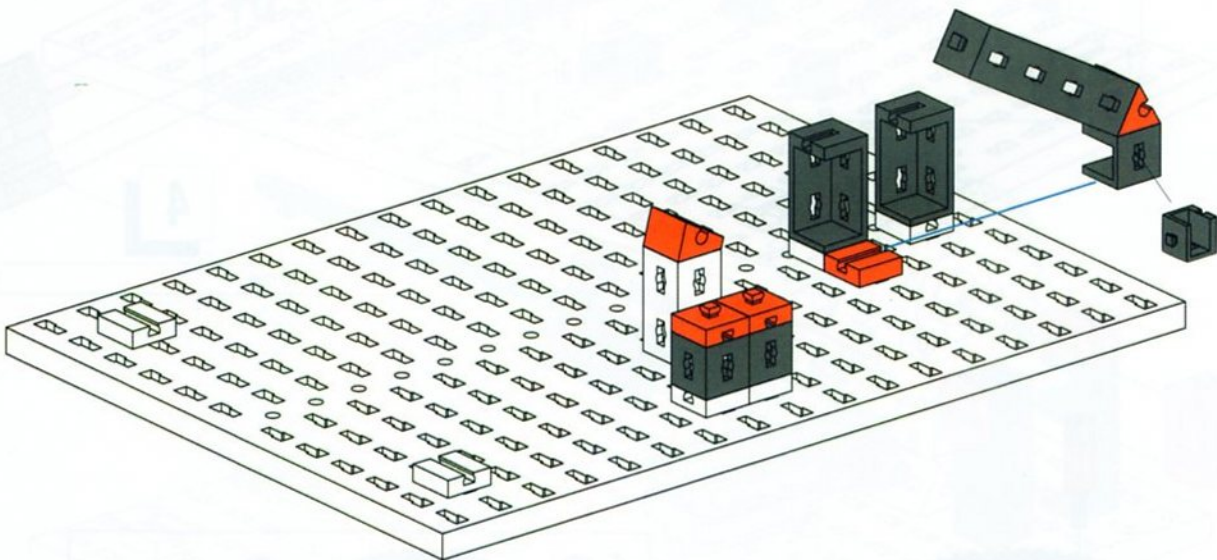
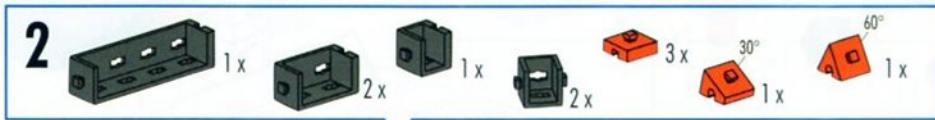
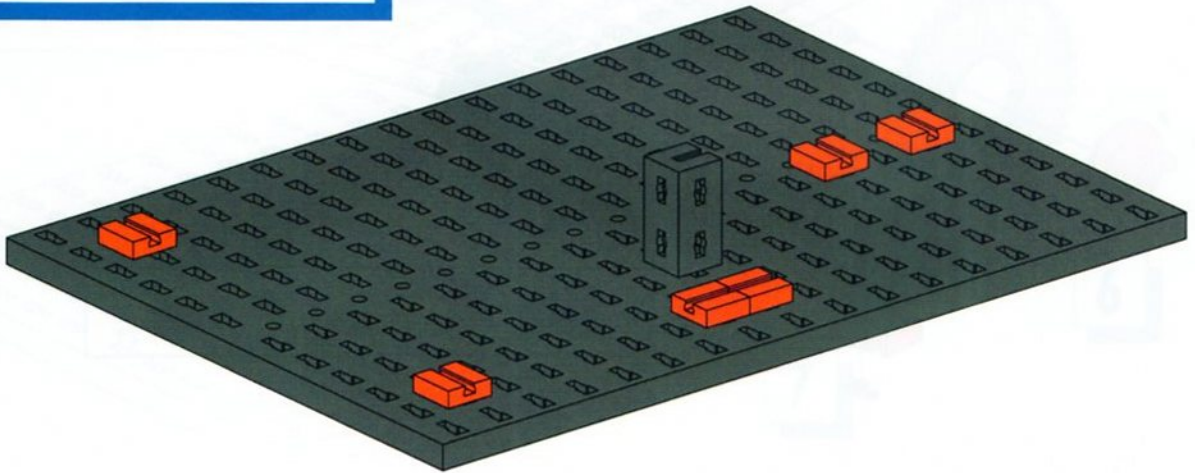
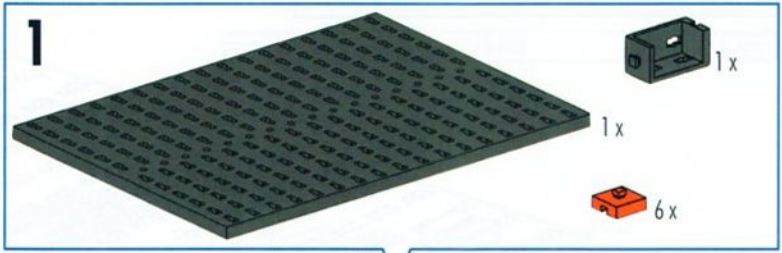




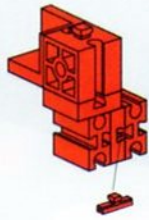
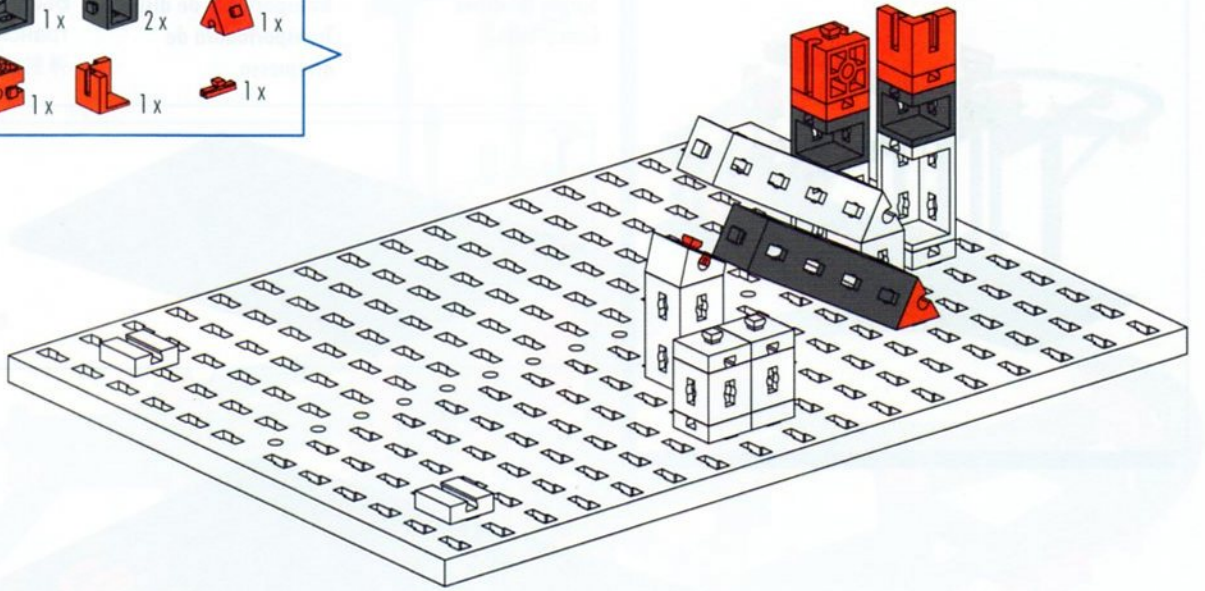
Schießförderer  
Spring launcher  
Lance-bille

Schietmechanisme  
Transportador de disparo  
Transportadora de  
arremesso

Convogliatore a tiro  
Выстреливающий  
транспортёр  
弹射式输送机

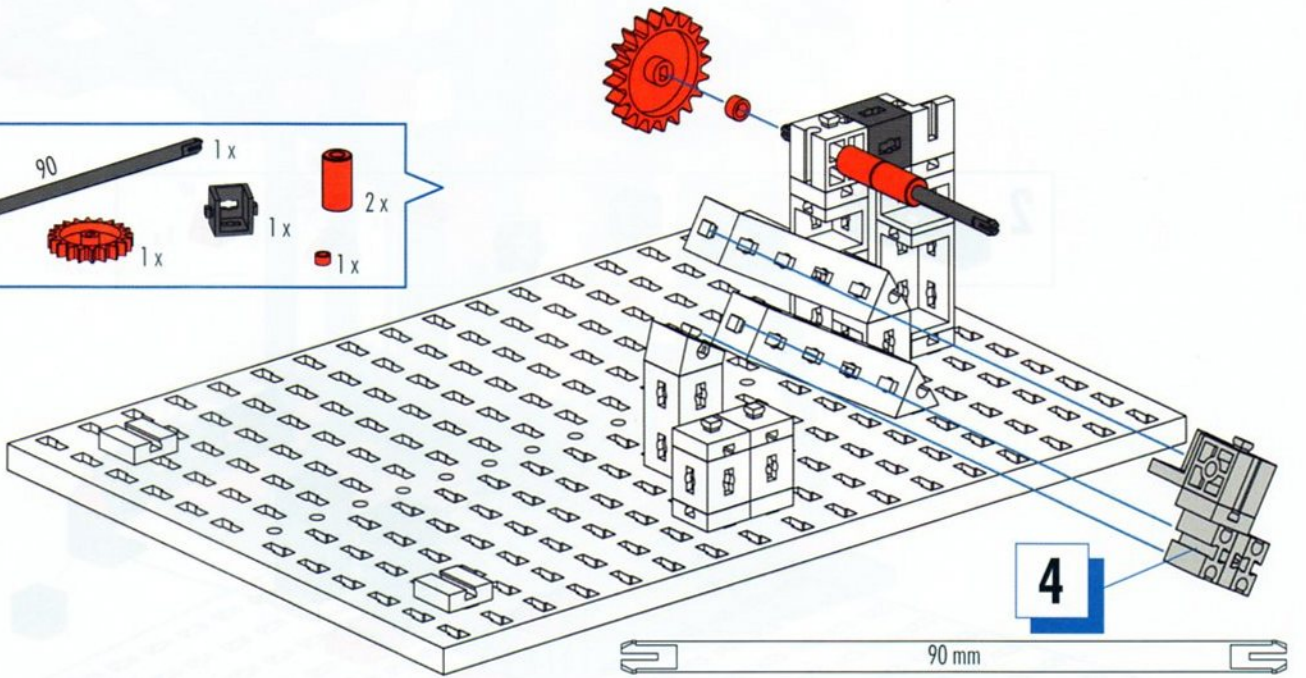


- 3**
- 1x Black Technic Beam 1x5
  - 2x Black Technic Bush
  - 1x Red Technic Wedge 60°
  - 2x Red Technic Pin
  - 1x Red Technic 1/2 Pin
  - 1x Red Technic 1/4 Pin
  - 1x Red Technic Pin



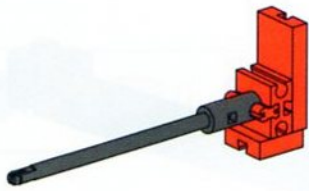
- 4**
- 1x Red Technic Pin
  - 1x Red Technic Pin
  - 2x Red Technic Pin
  - 1x Red Technic Pin
  - 2x Red Technic Pin

- 5**
- 1x Black Technic Axle 90
  - 1x Red Technic Gear 24
  - 1x Black Technic Bush
  - 2x Red Technic Pin
  - 1x Red Technic Pin



- 6**
- 1x Red Technic Pin
  - 1x Black Technic Gear 48
  - 2x Red Technic Pin
  - 1x Black Technic Pin 30

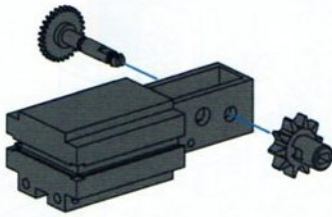
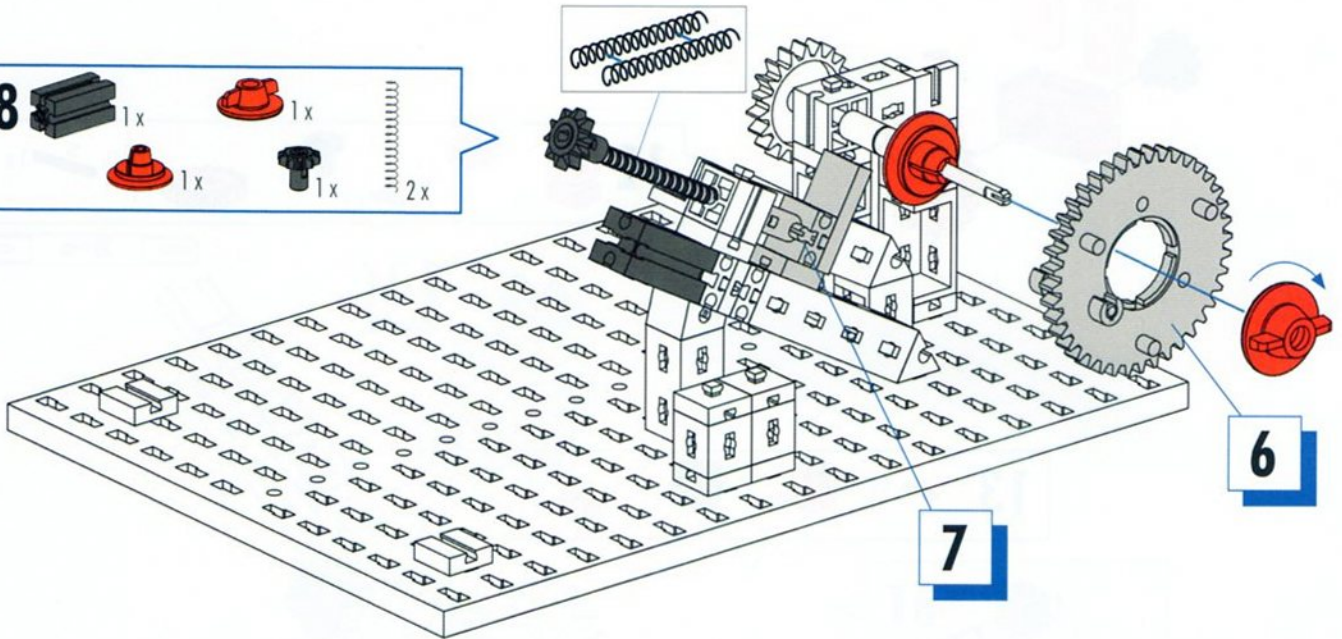
30 mm



- 7** 1x 1x 1x 15 1x 1x 75 1x

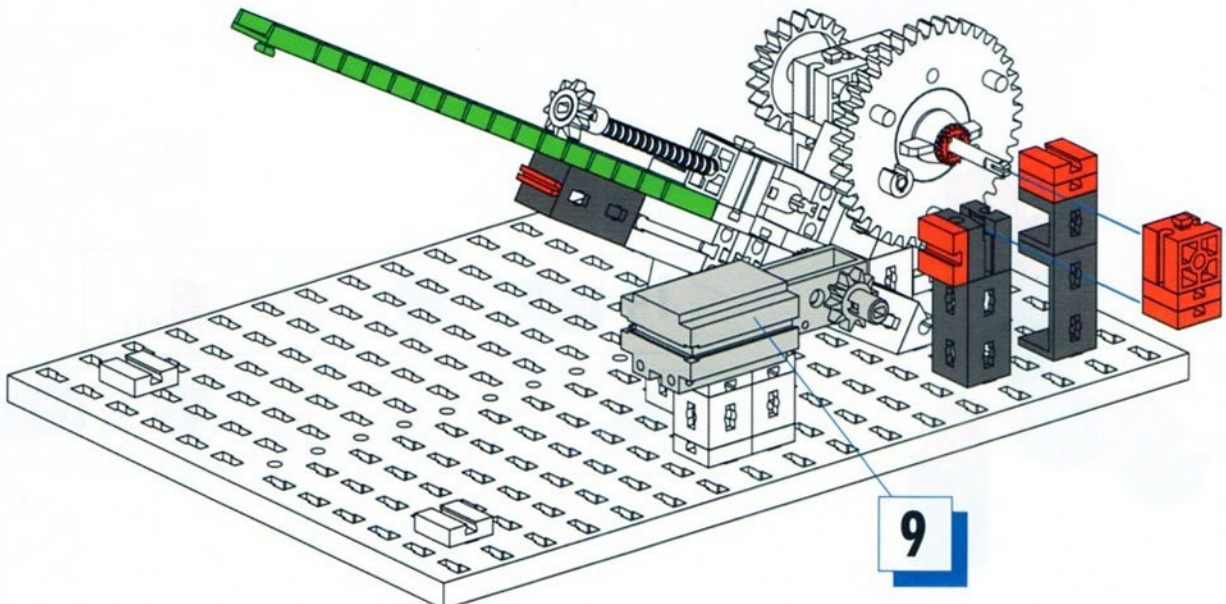






- 8** 1x 1x 1x 1x 2x

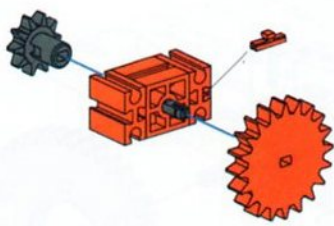
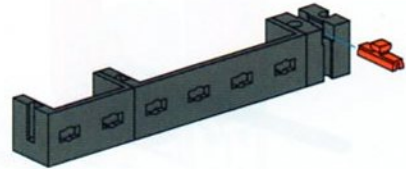







- 9** 1x 1x 1x 1x

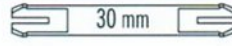
- 10** 1x 1x 1x 1x 3x 1x 1x 5x 1x



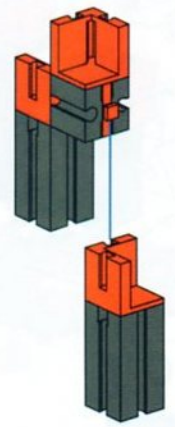
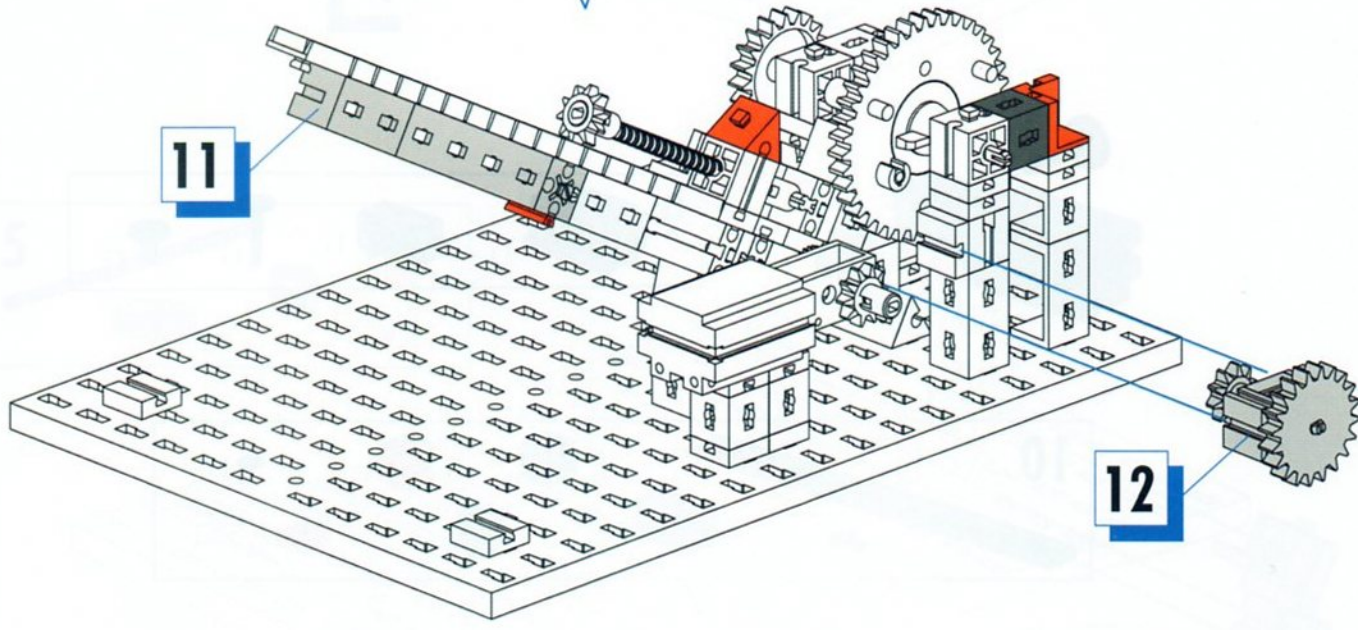
- 11**  1x  1x  1x  1x



- 12**  1x  2x  1x  1x  1x



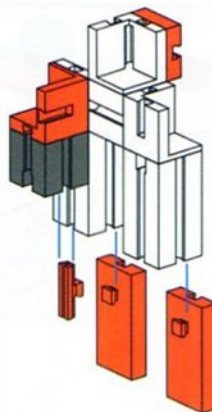
- 13**  1x  1x  1x  1x



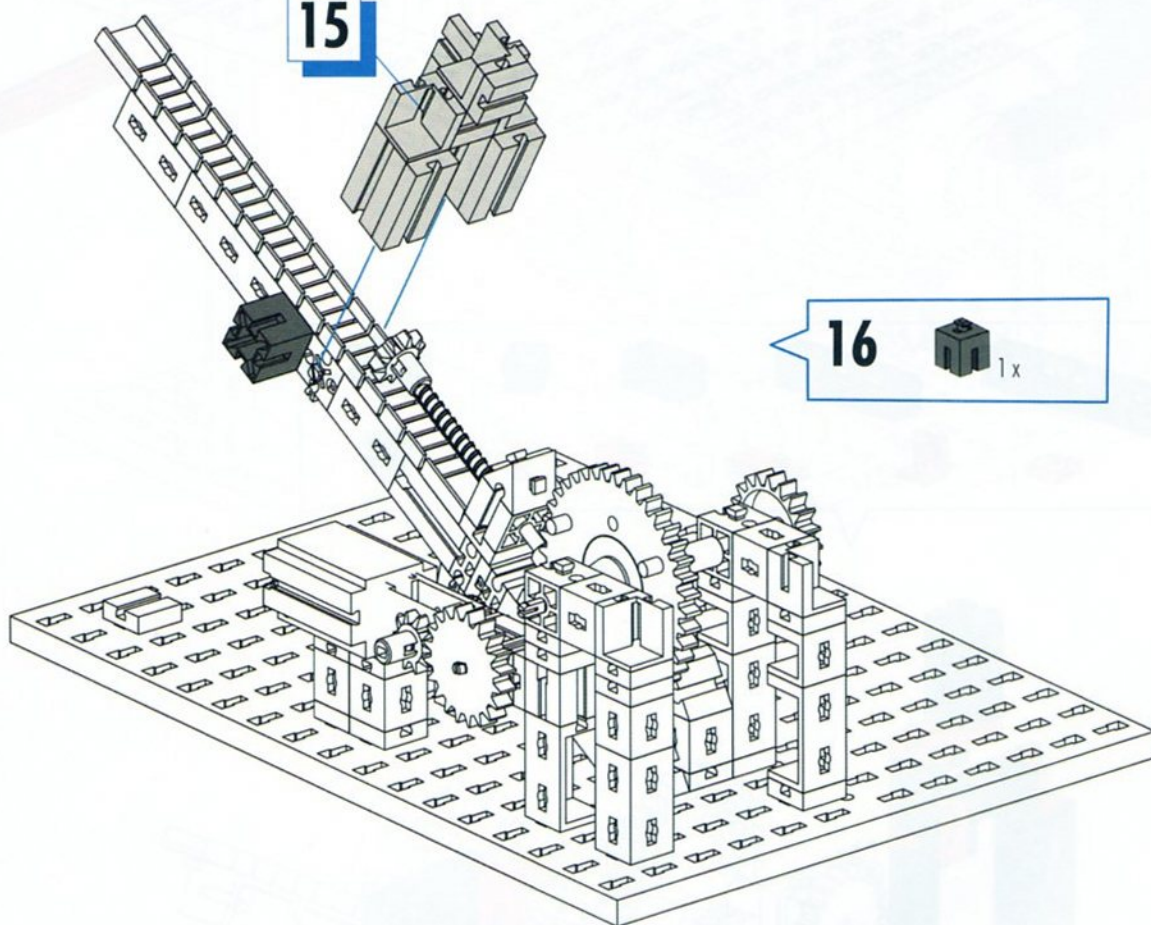
- 14**  2x  1x  1x  3x



15



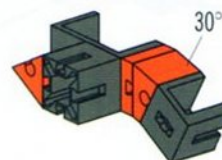
15





16

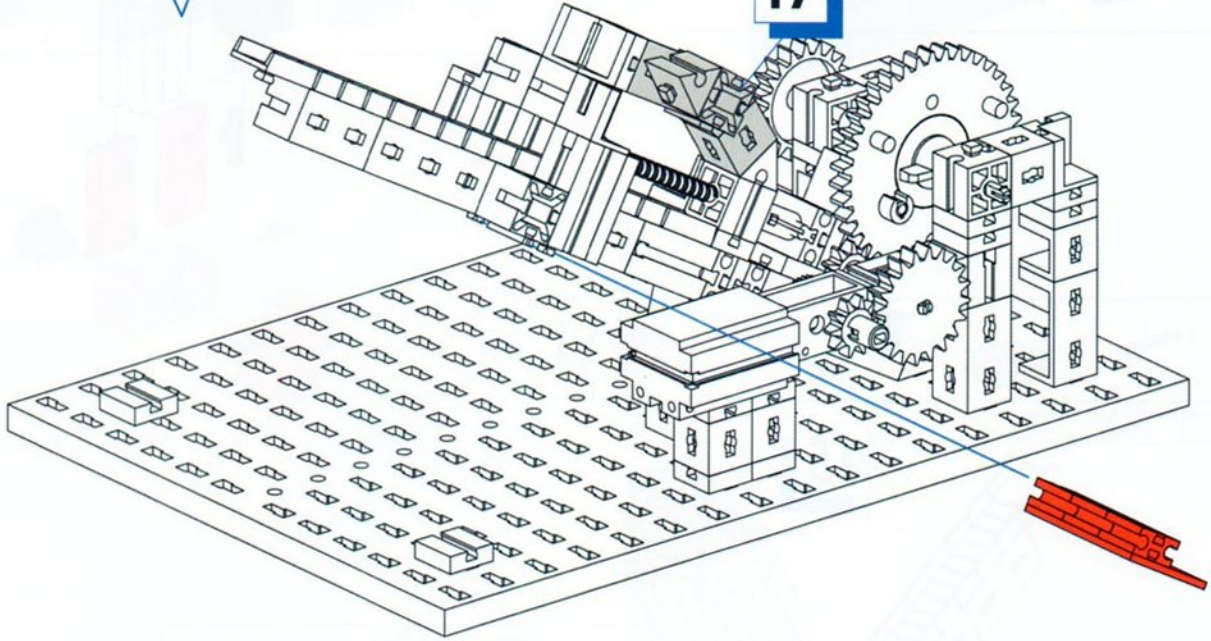







17









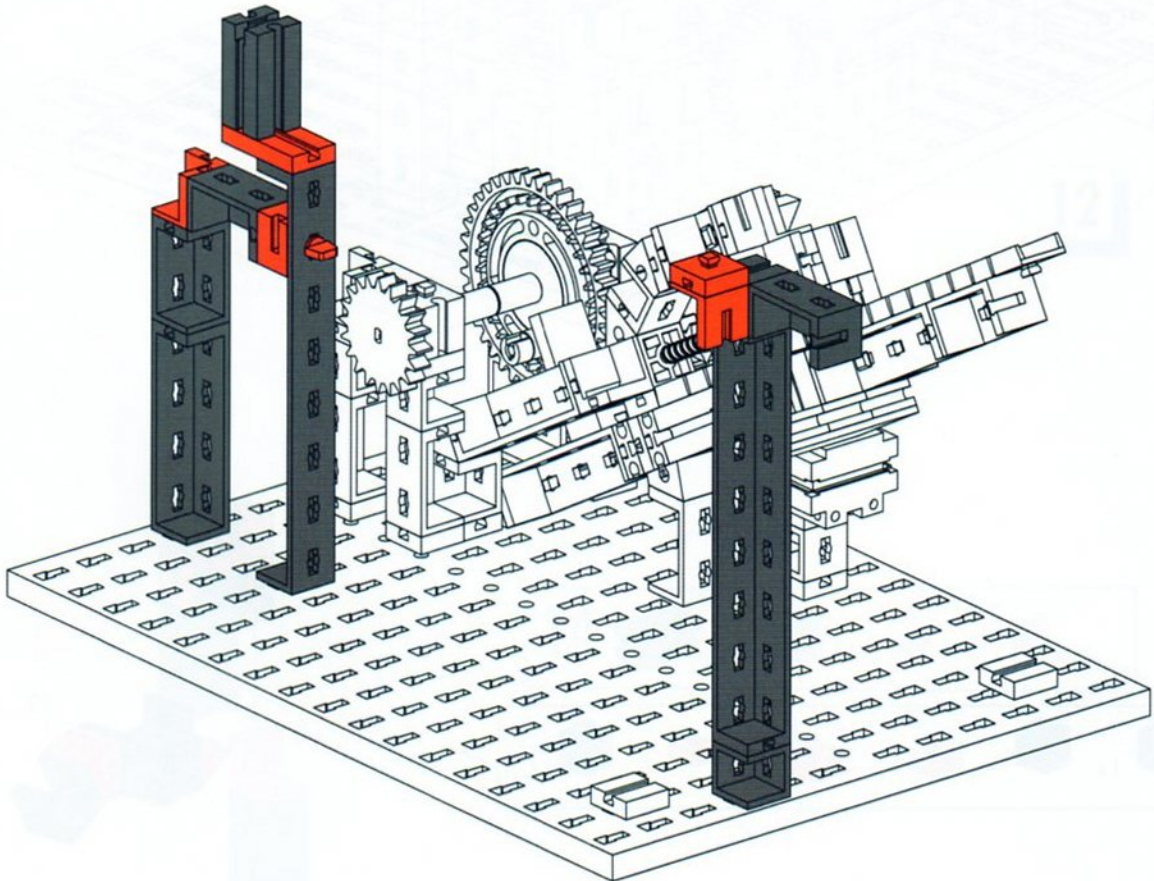
**18**  3x  1x

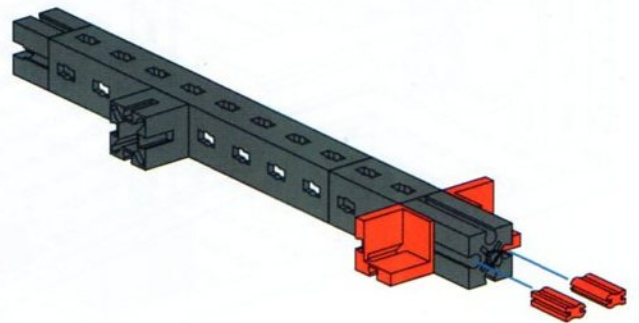
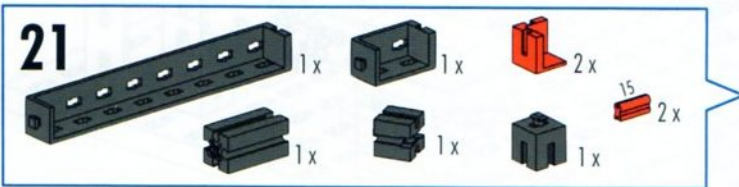
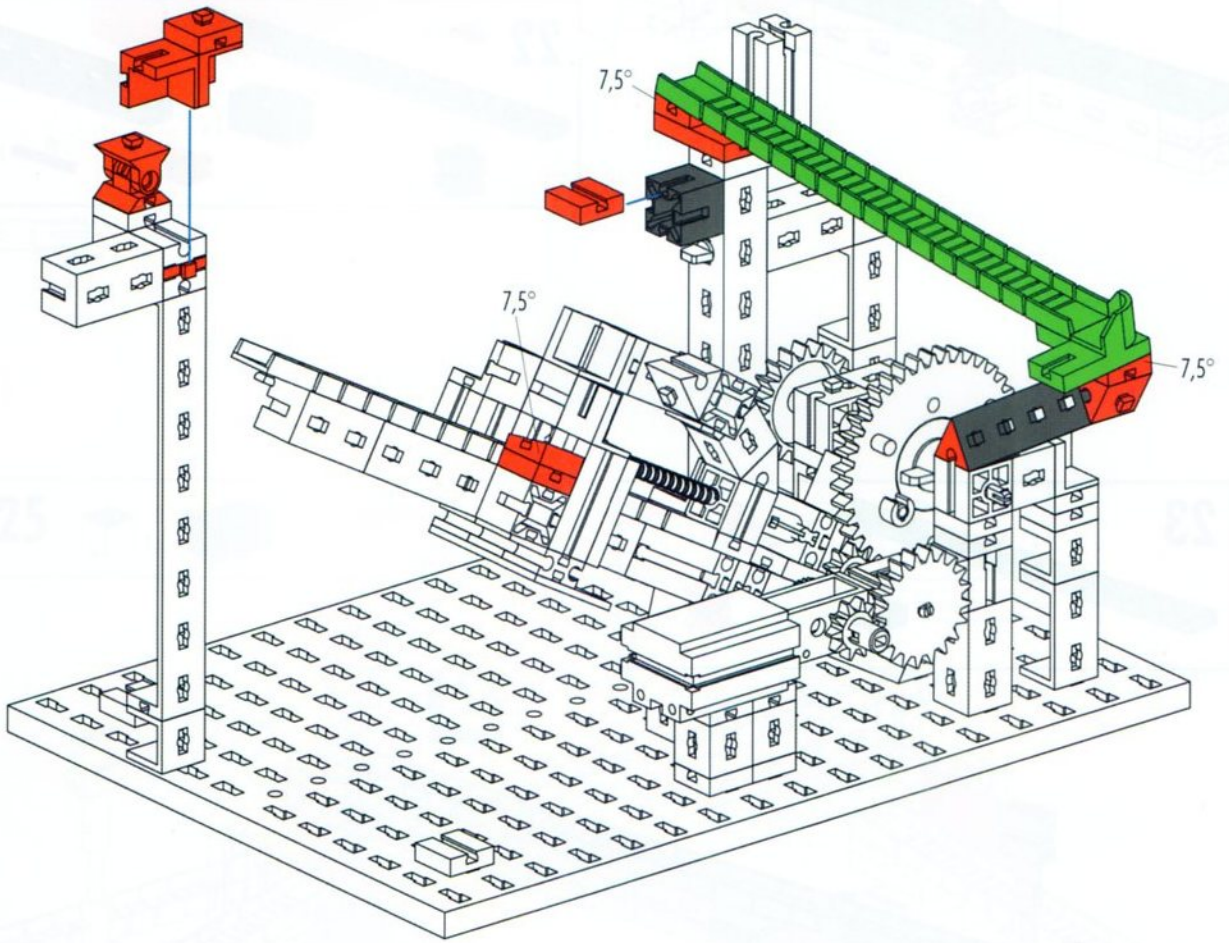
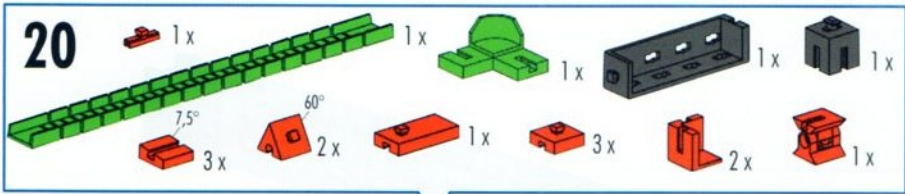
**17**

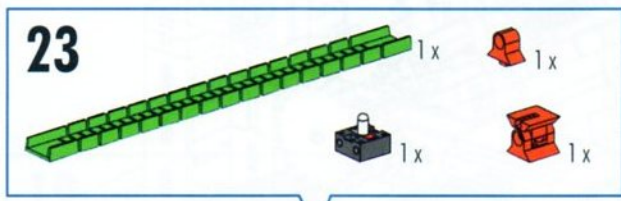
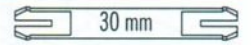
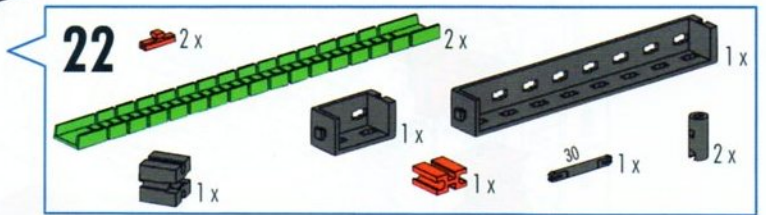
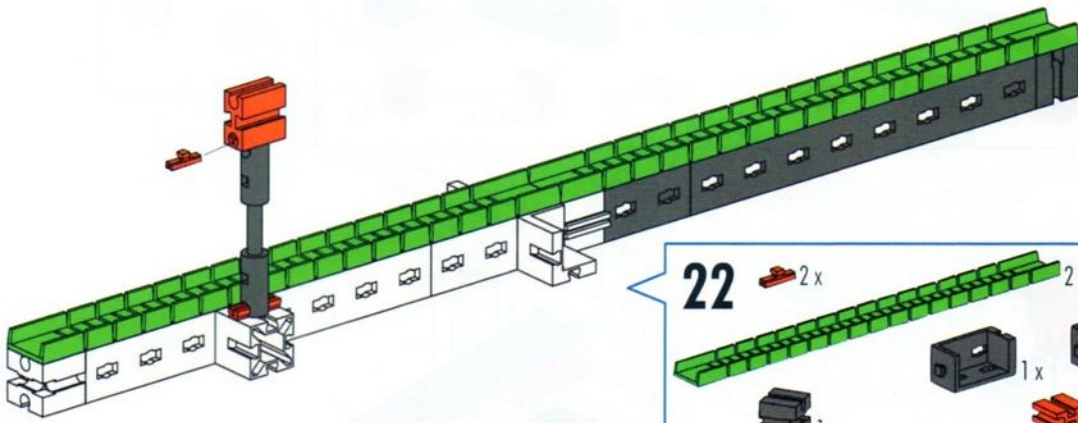


**19**  2x  1x  3x  1x  1x

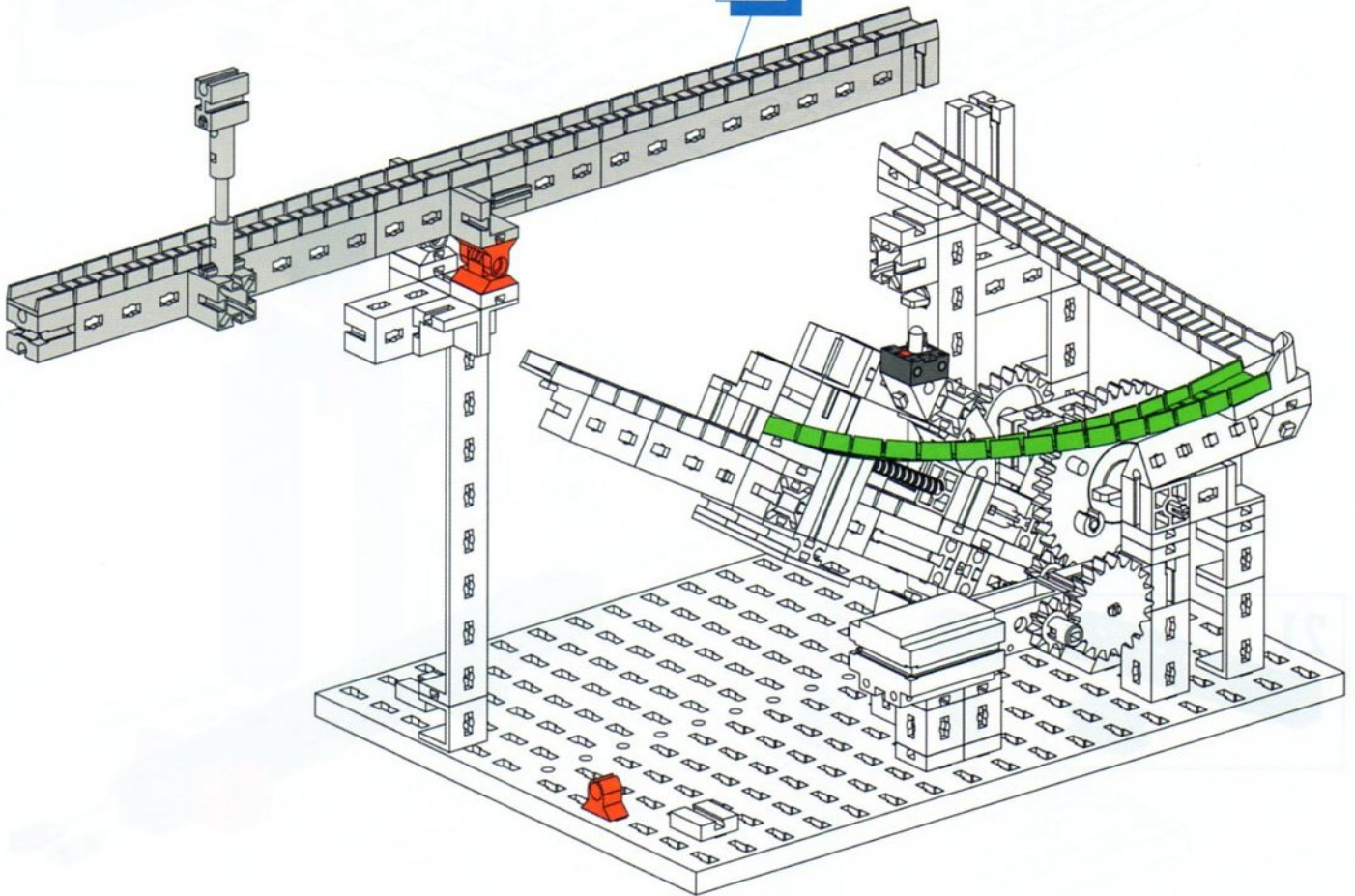
 1x  2x  1x  1x  1x  1x

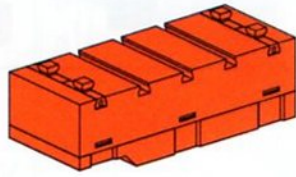






**22**

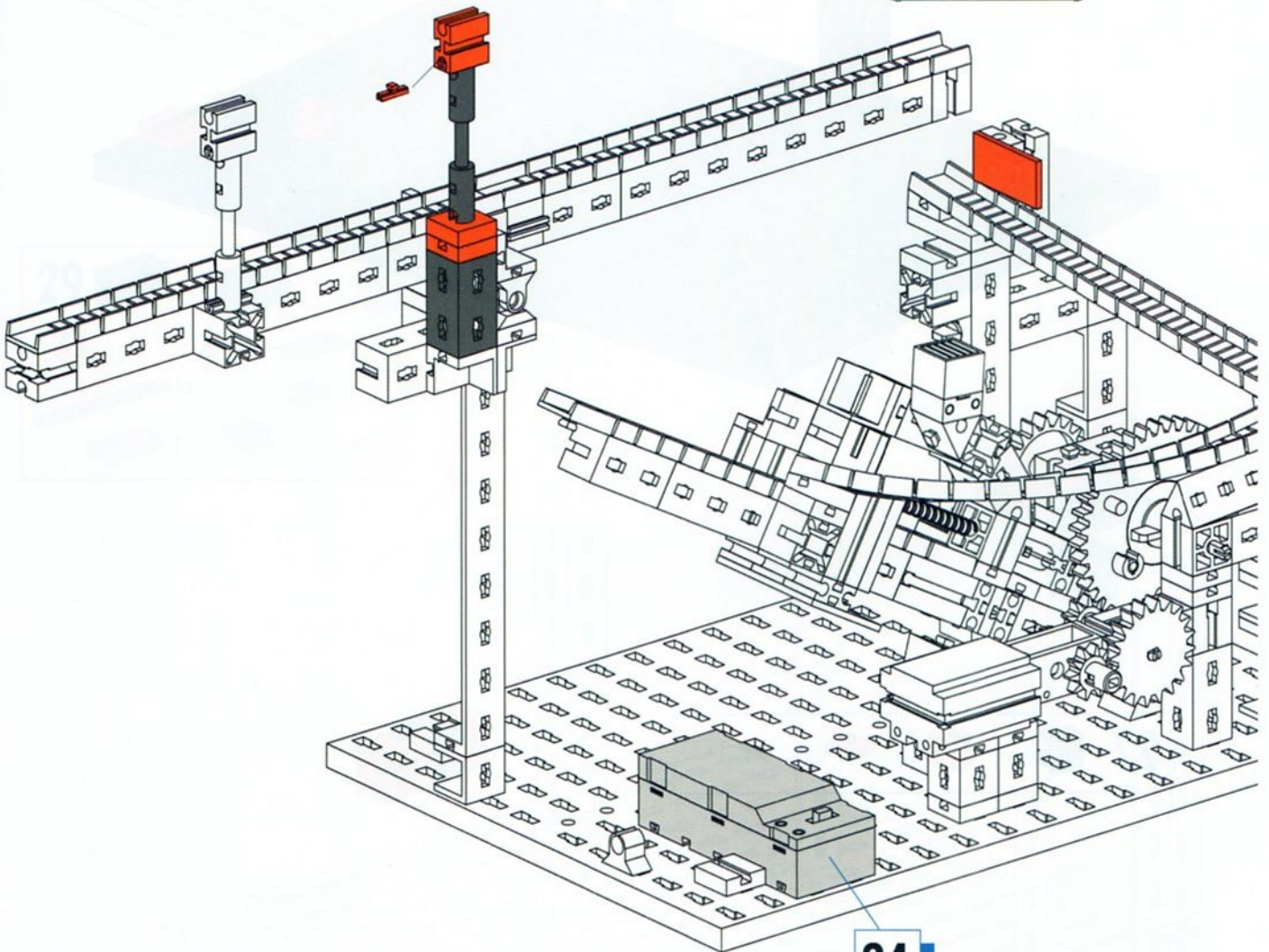
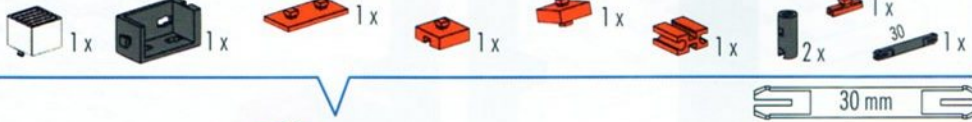




24



25



24

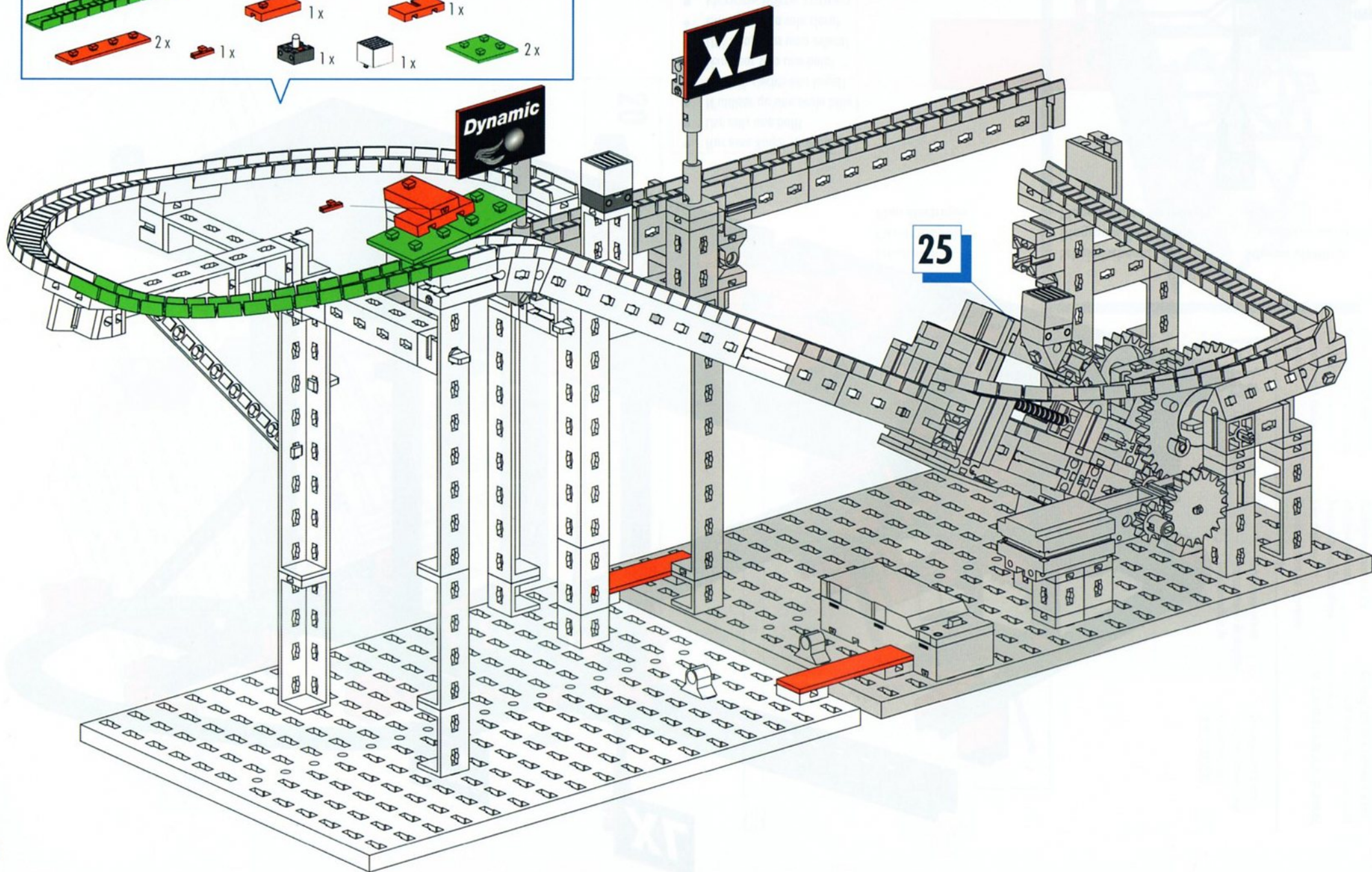
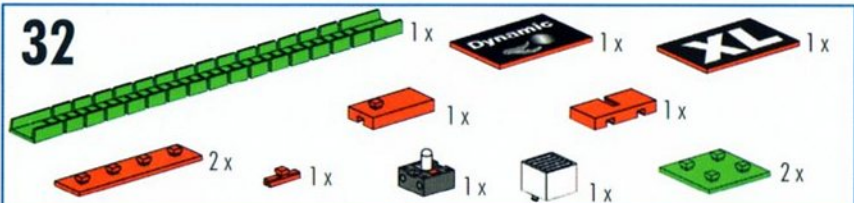


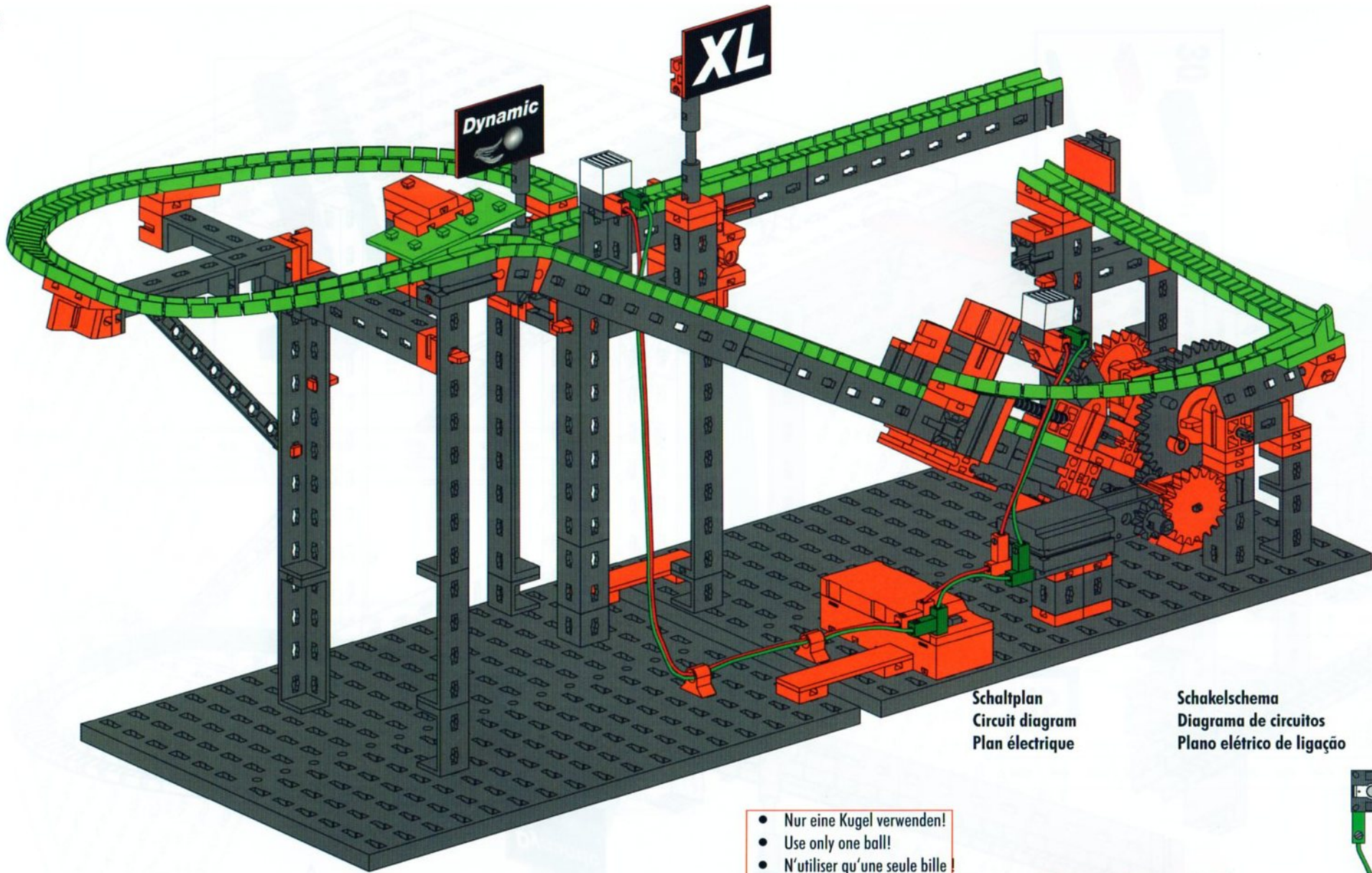






32



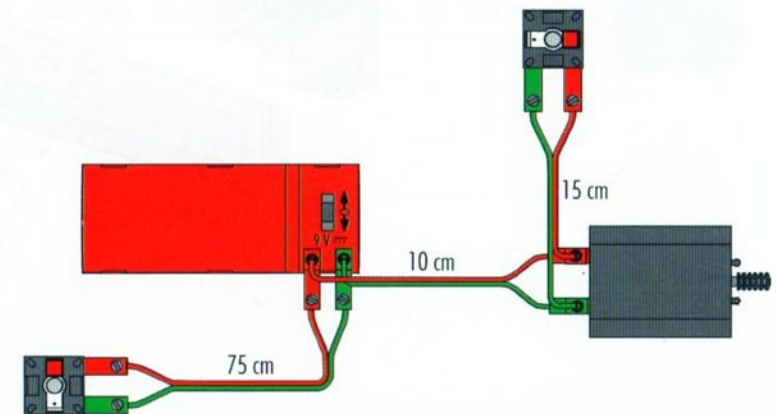


Schaltplan  
Circuit diagram  
Plan électrique

Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图

- Nur eine Kugel verwenden!
- Use only one ball!
- N'utiliser qu'une seule bille!
- Gebruik slechts één kogel!
- ¡Emplear solo una bola!
- Utilize apenas uma esfera!
- Utilizzare una sola sfera!
- Используйте только один шарик!
- 只使用一个钢珠!





Ketten- und Schiebförderer  
Chain conveyor and spring  
launcher  
Transporteur à chaîne  
lance-bille

Kettingtransporteur en  
schietmechanisme  
Transportador de cadena  
y de disparo  
Transportadora de corrente  
e de arremesso

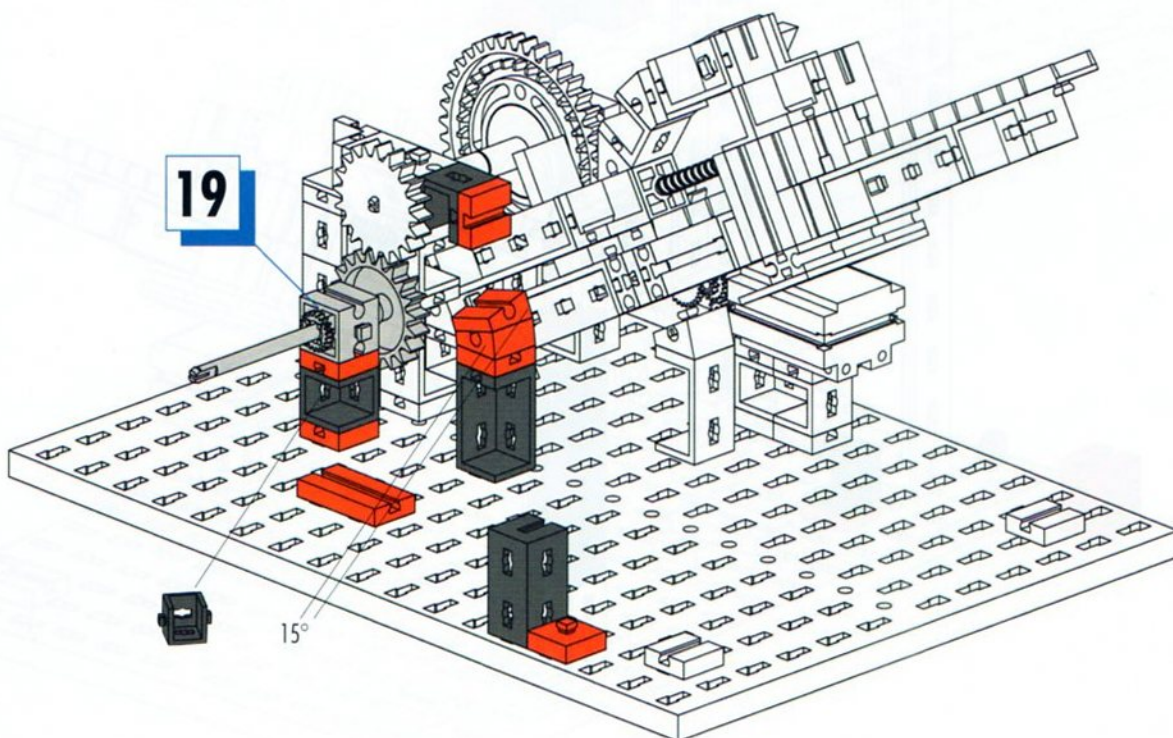
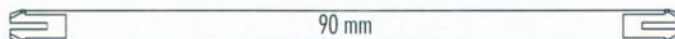
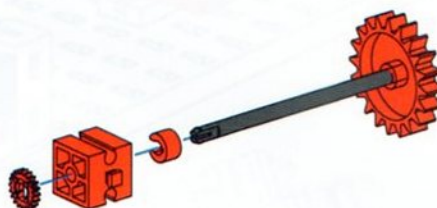
Convogliatore a catena e a tiro  
Цепной и выстреливающий  
транспортёр  
链式和弹射式输送机混合搭配

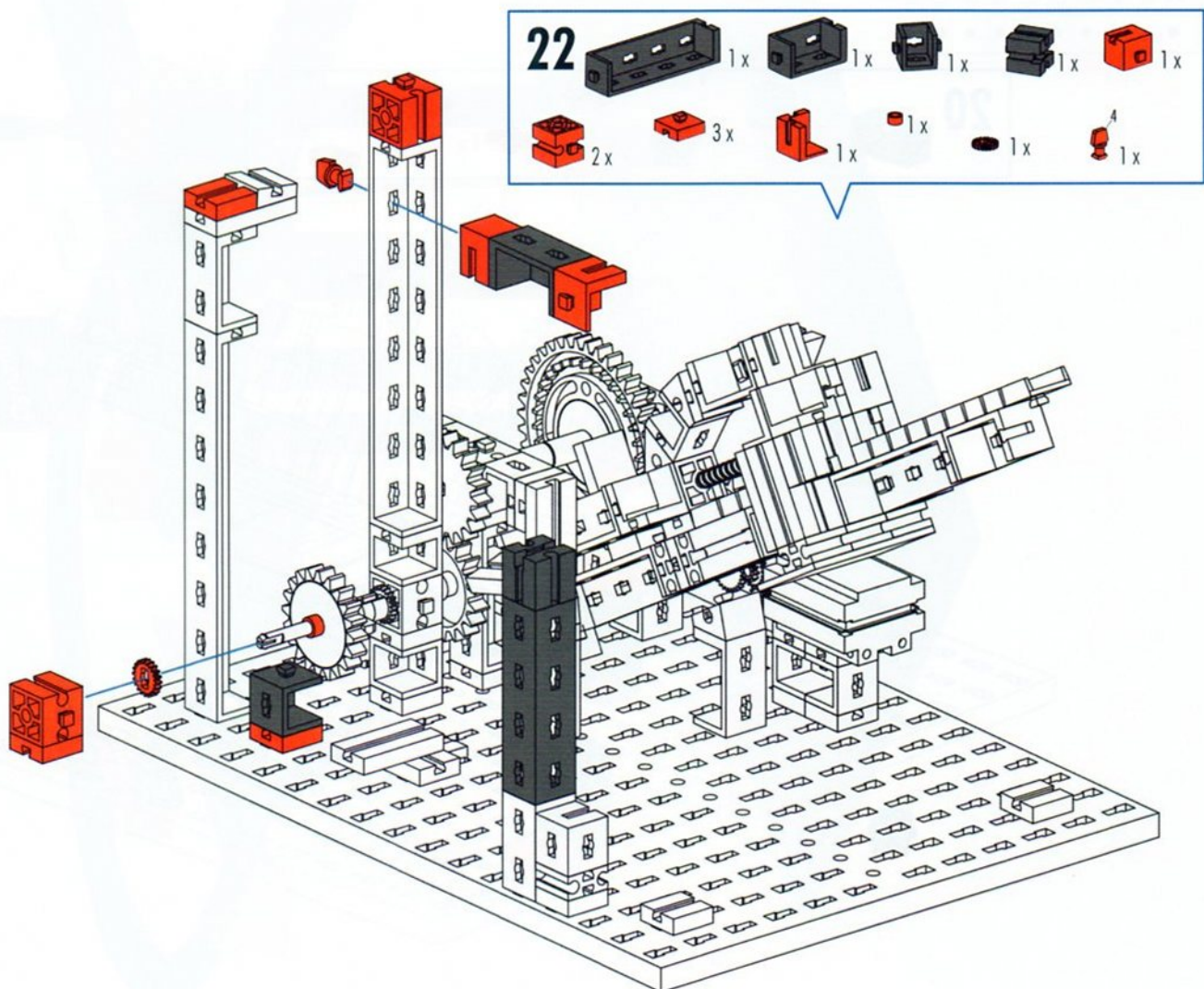
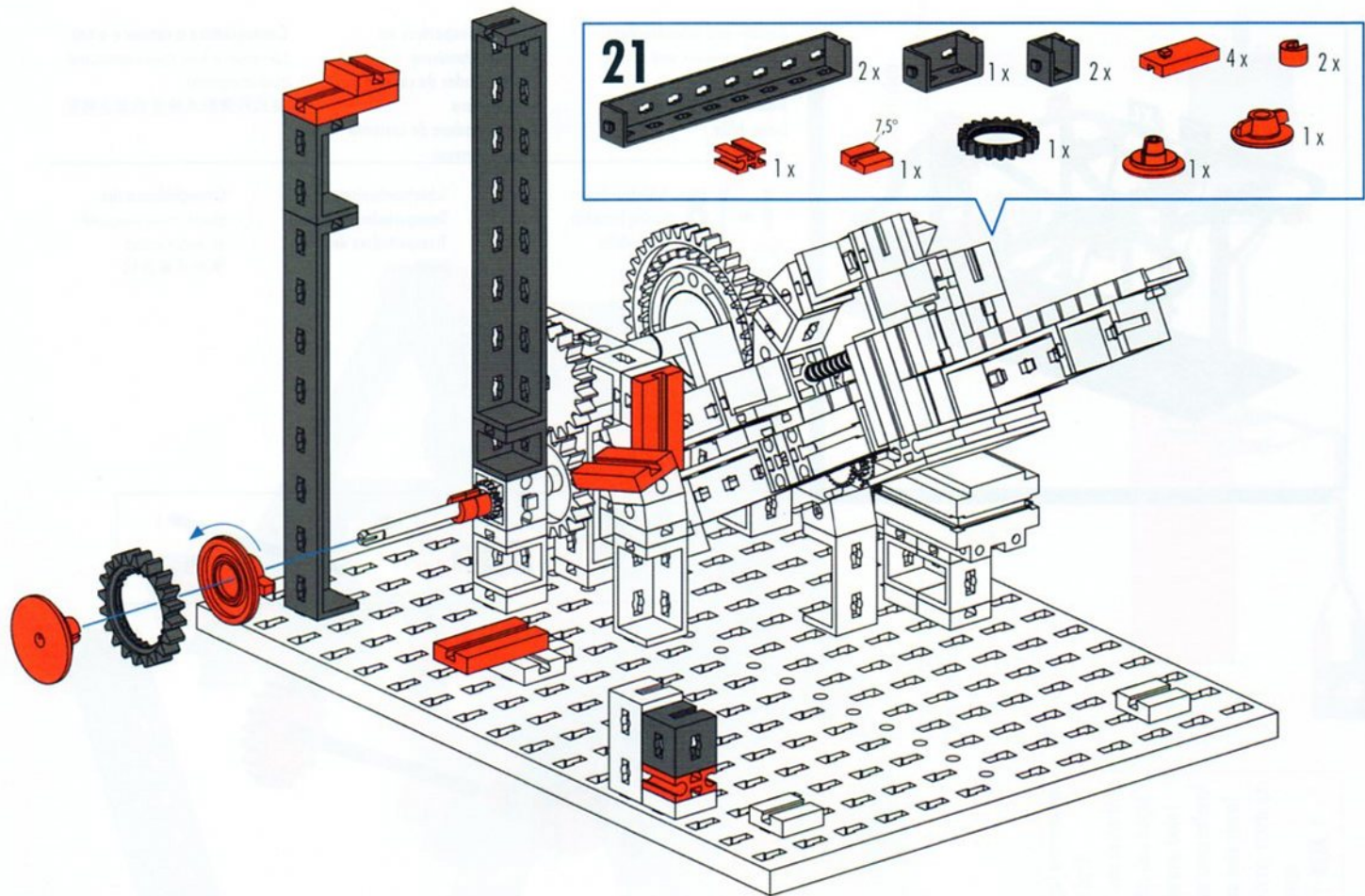
## 1-18 Schiebförderer Spring launcher Lance-bille

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Schietmechanisme  
Transportador de disparo  
Transportadora de  
arremesso

Convogliatore a tiro  
Выстреливающий  
транспортёр  
弹射式输送机

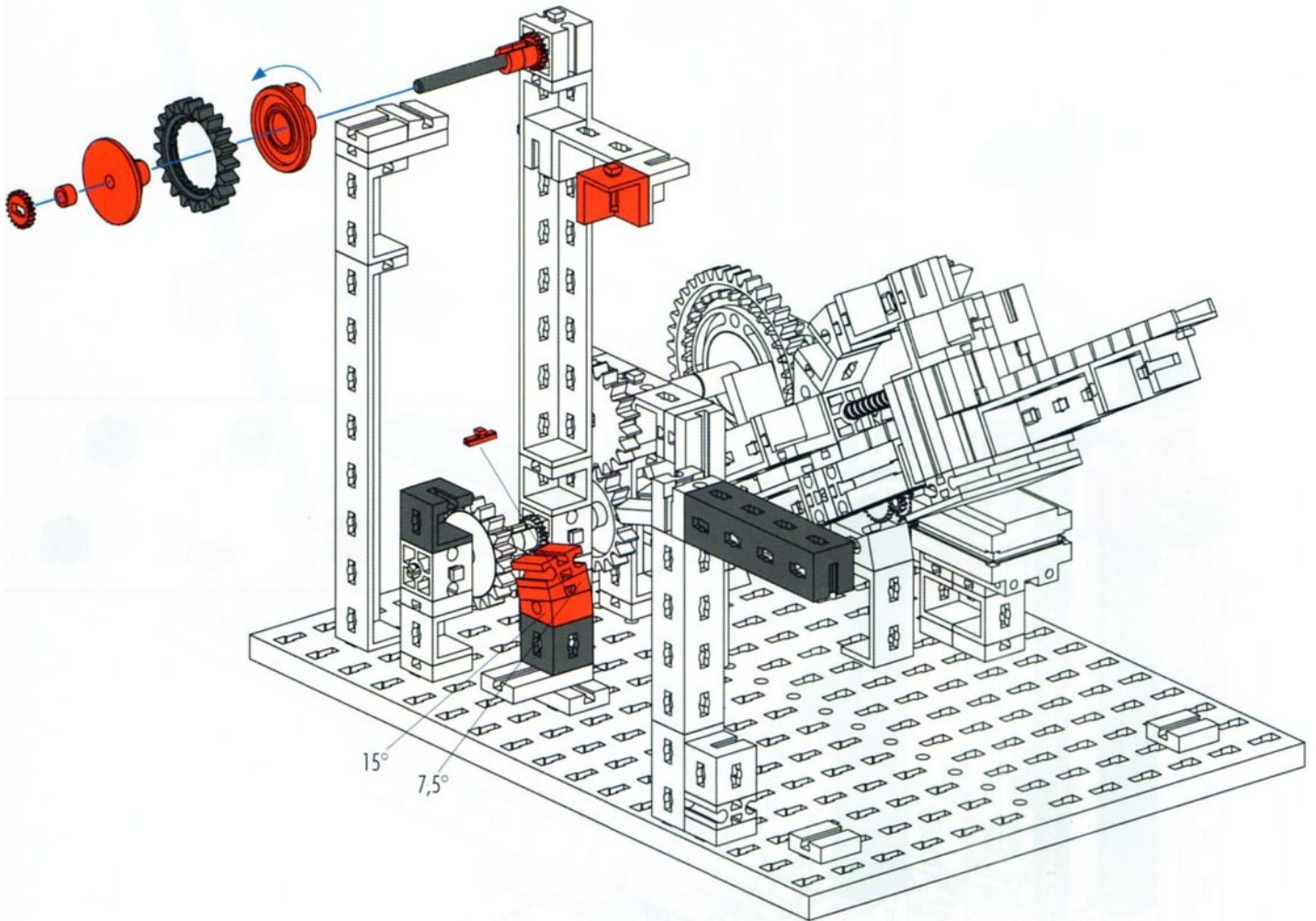




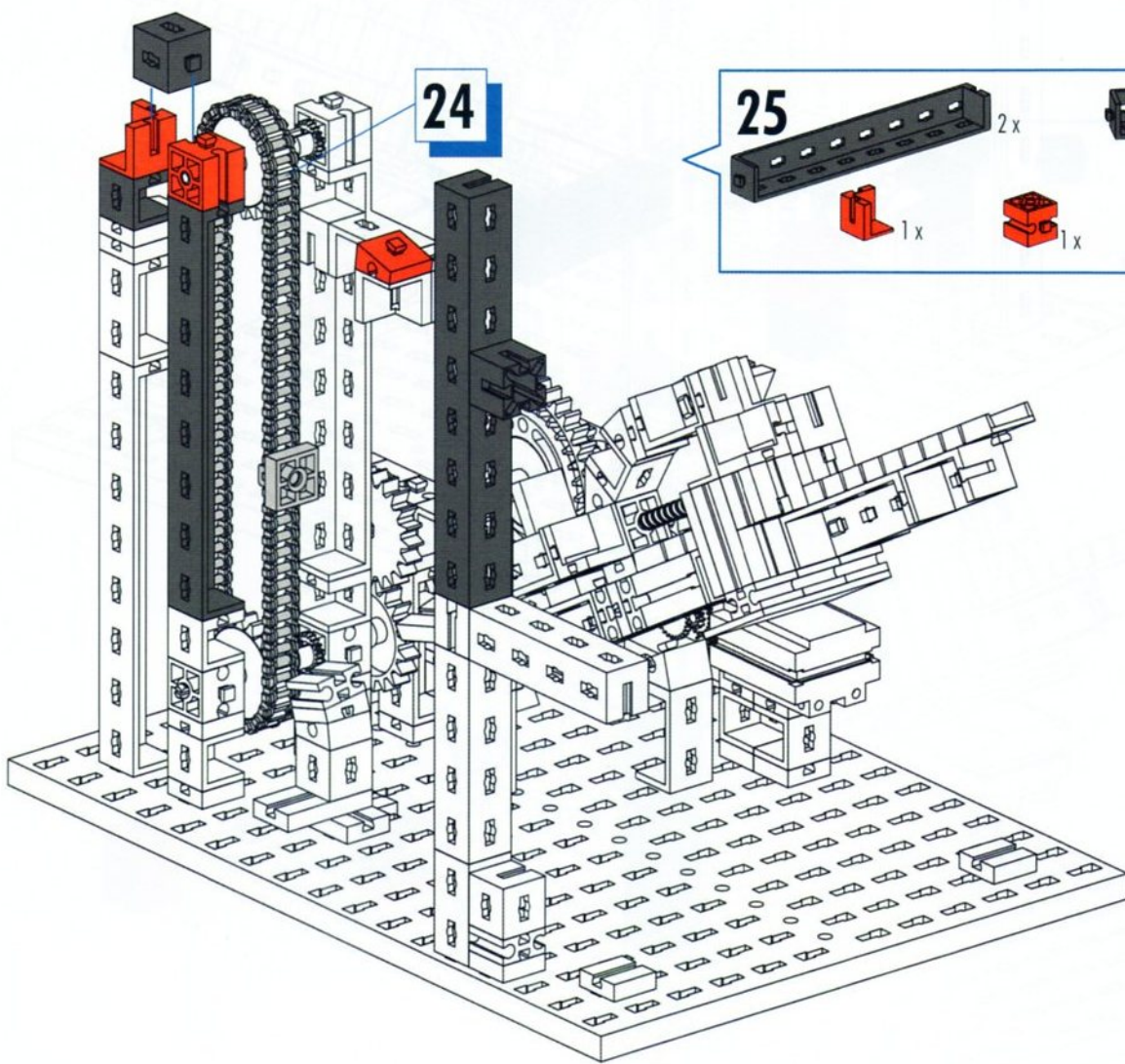
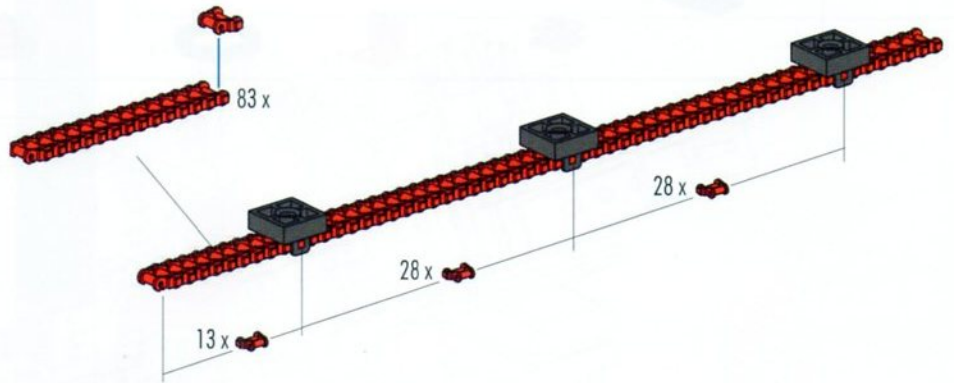
23








- 1x [Black Technic Beam 1x5]
- 2x [Black Technic Bracket]
- 1x [Red Technic Pin 15°]
- 1x [Red Technic Pin 7.5°]
- 1x [Red Technic Pin]
- 1x [Red Technic Bush]
- 2x [Red Technic Bush]
- 2x [Black Technic Bush]
- 1x [Red Technic Bush]
- 1x [Red Technic Pin]
- 1x [Red Technic Pin]
- 1x [Black Technic Gear]
- 1x [Red Technic Pin]
- 1x [Black Technic Pin 60]

60 mm

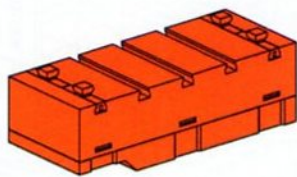
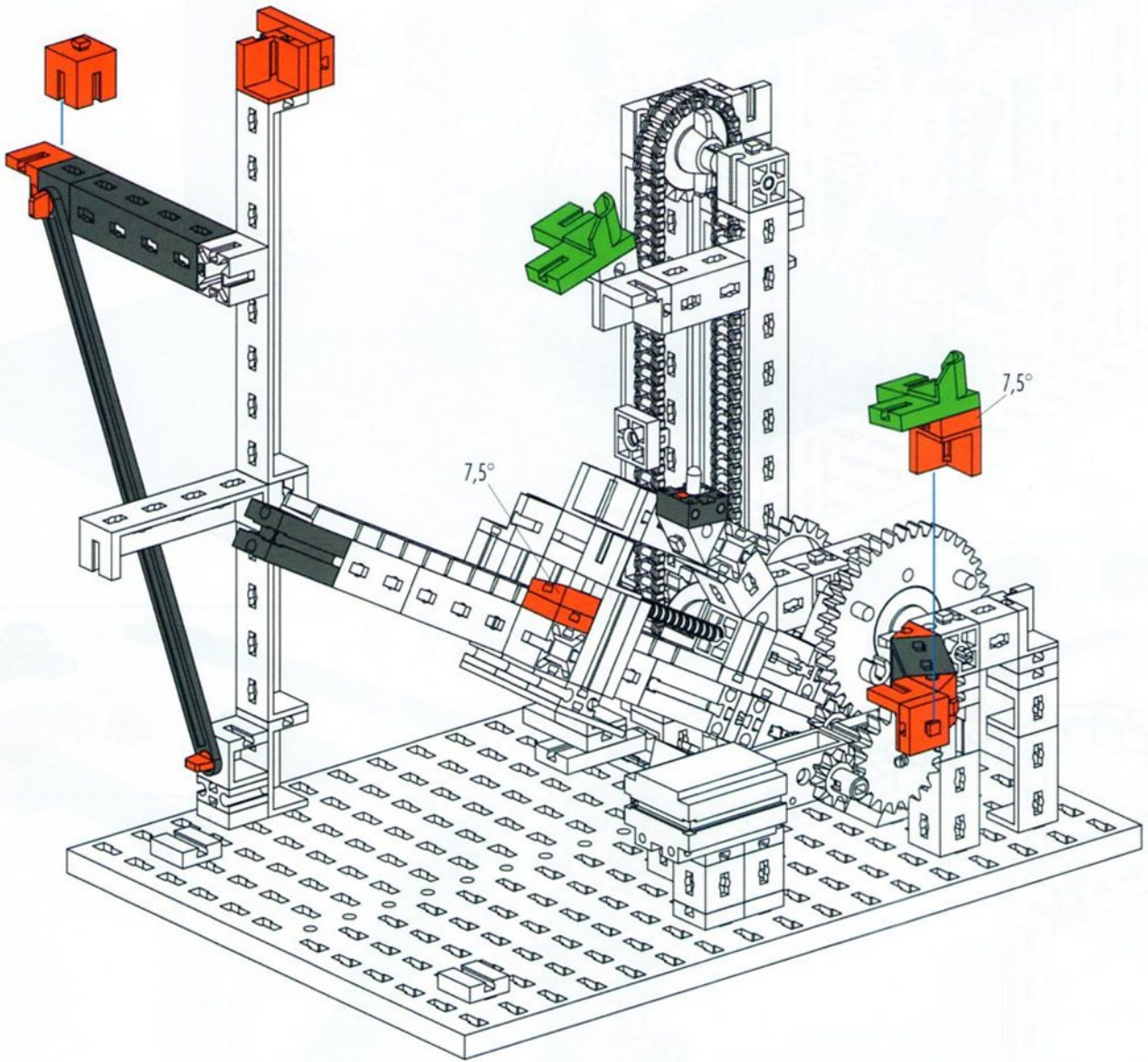
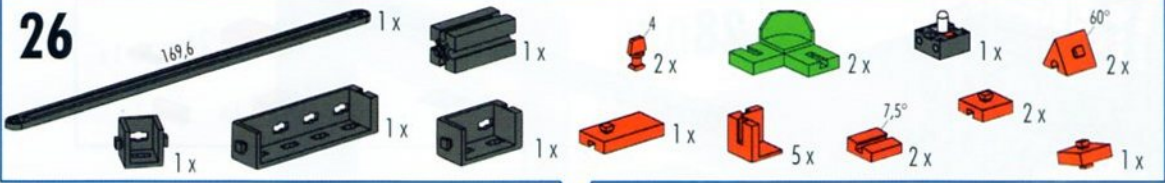


**24**  83 x  3 x



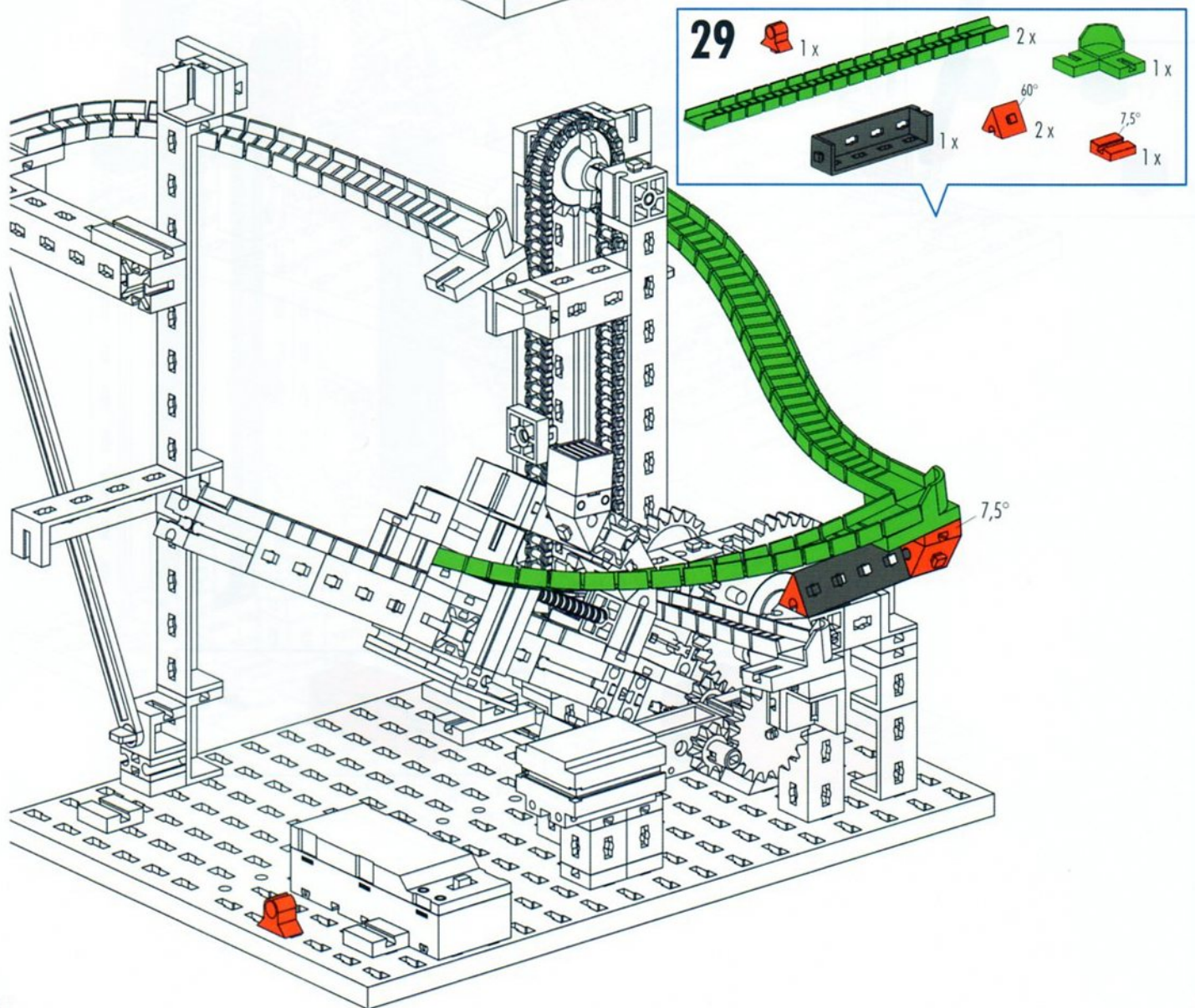
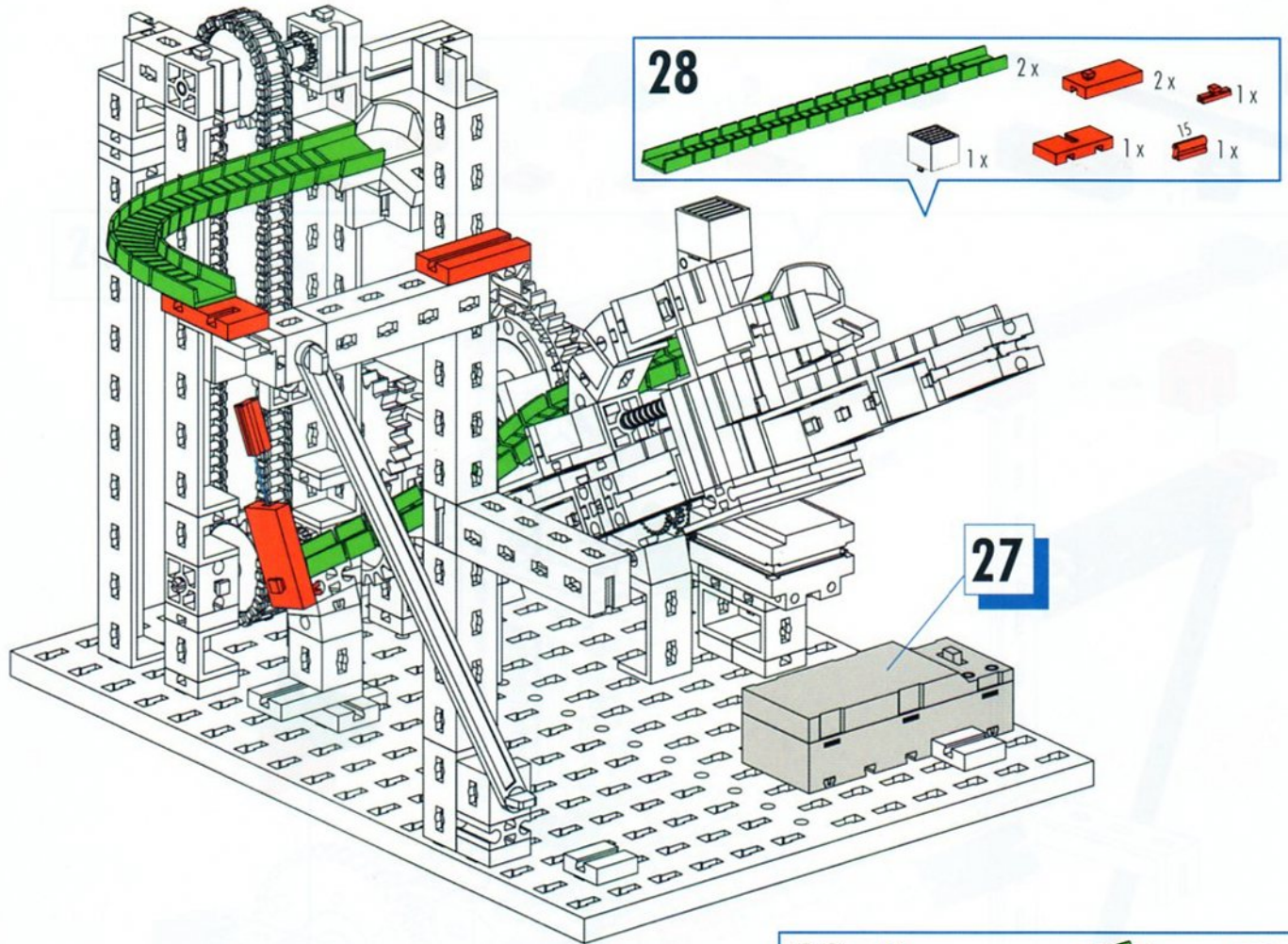
**25**  2 x  1 x  1 x  1 x  1 x  1 x  1 x

26



27



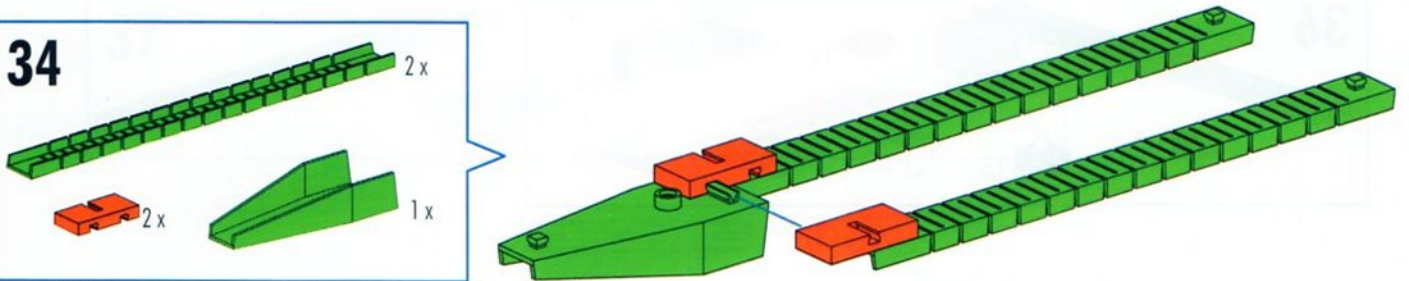




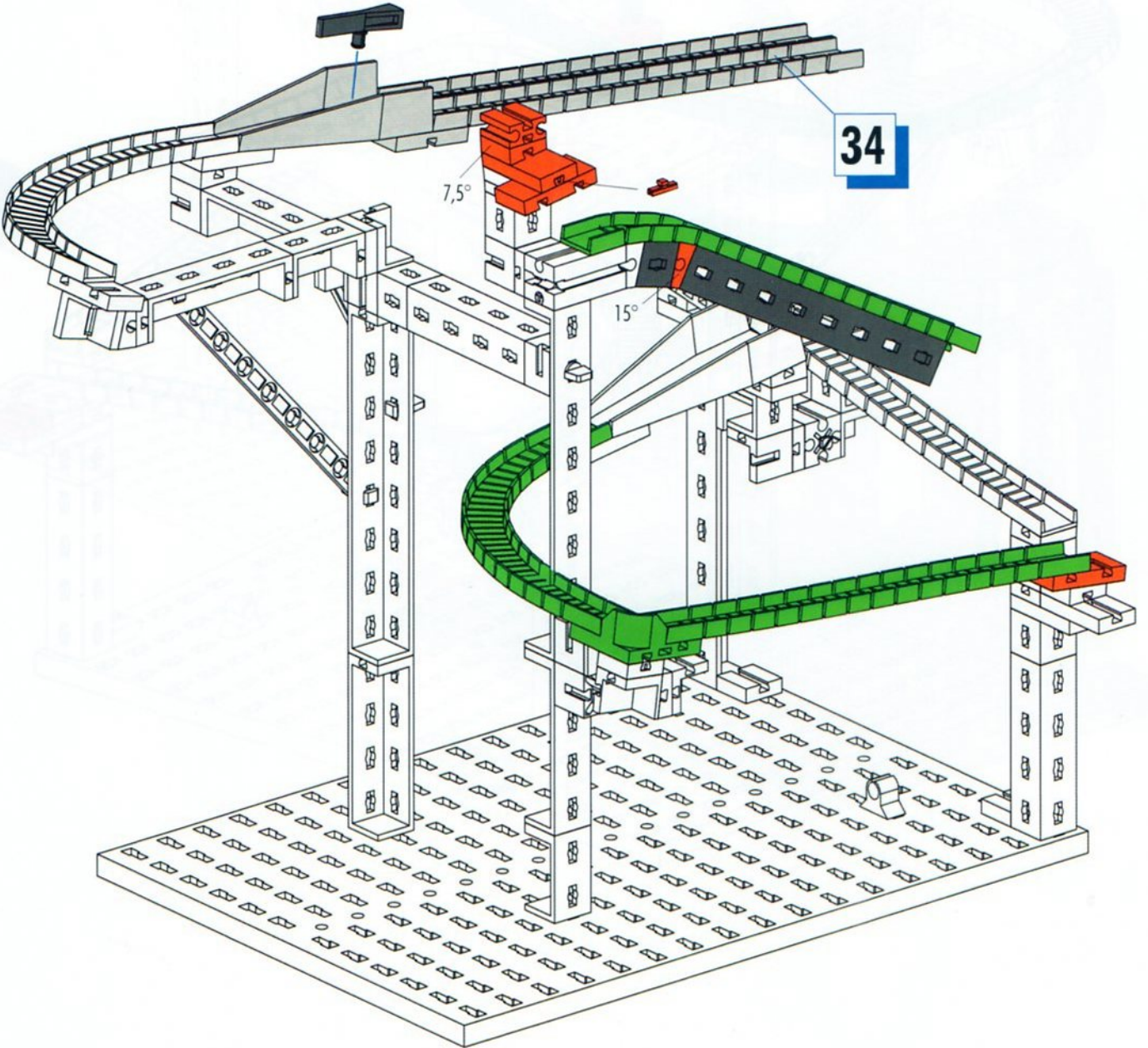
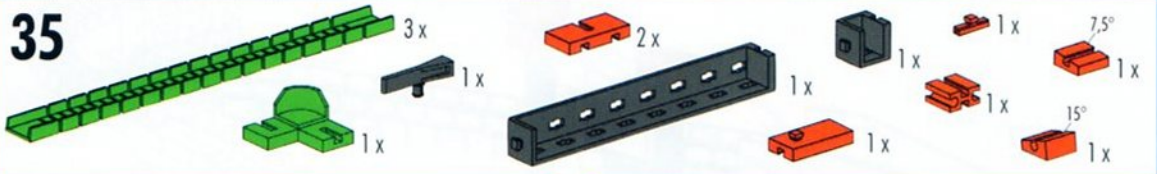




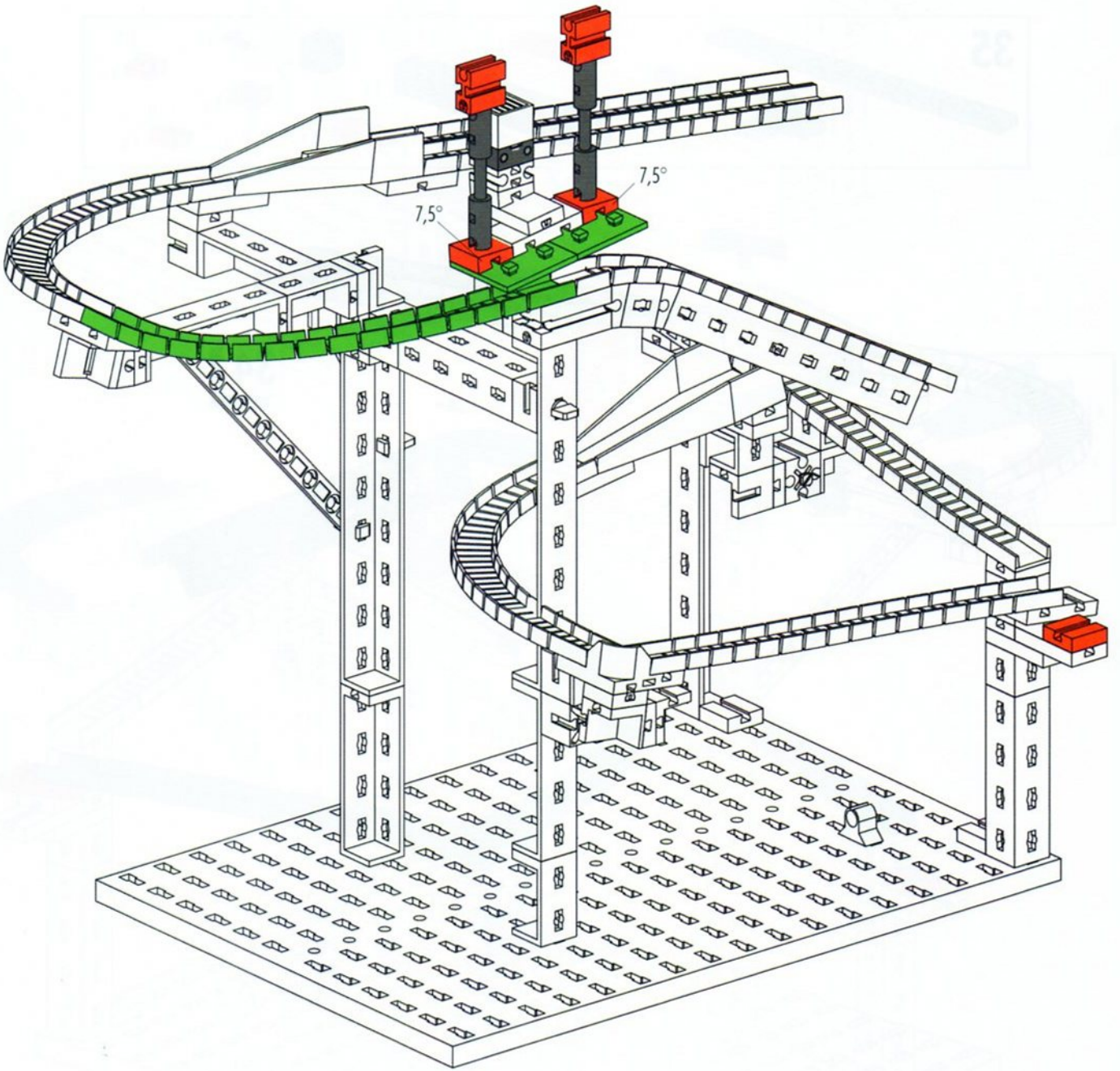
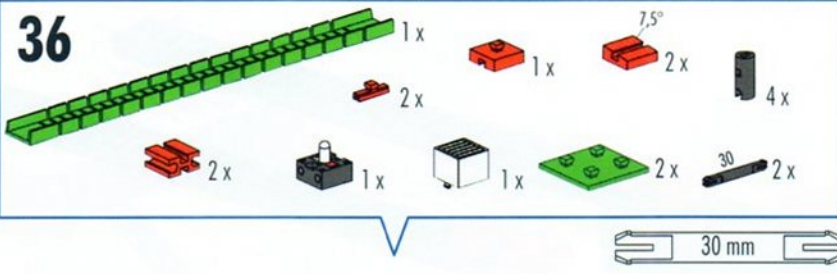
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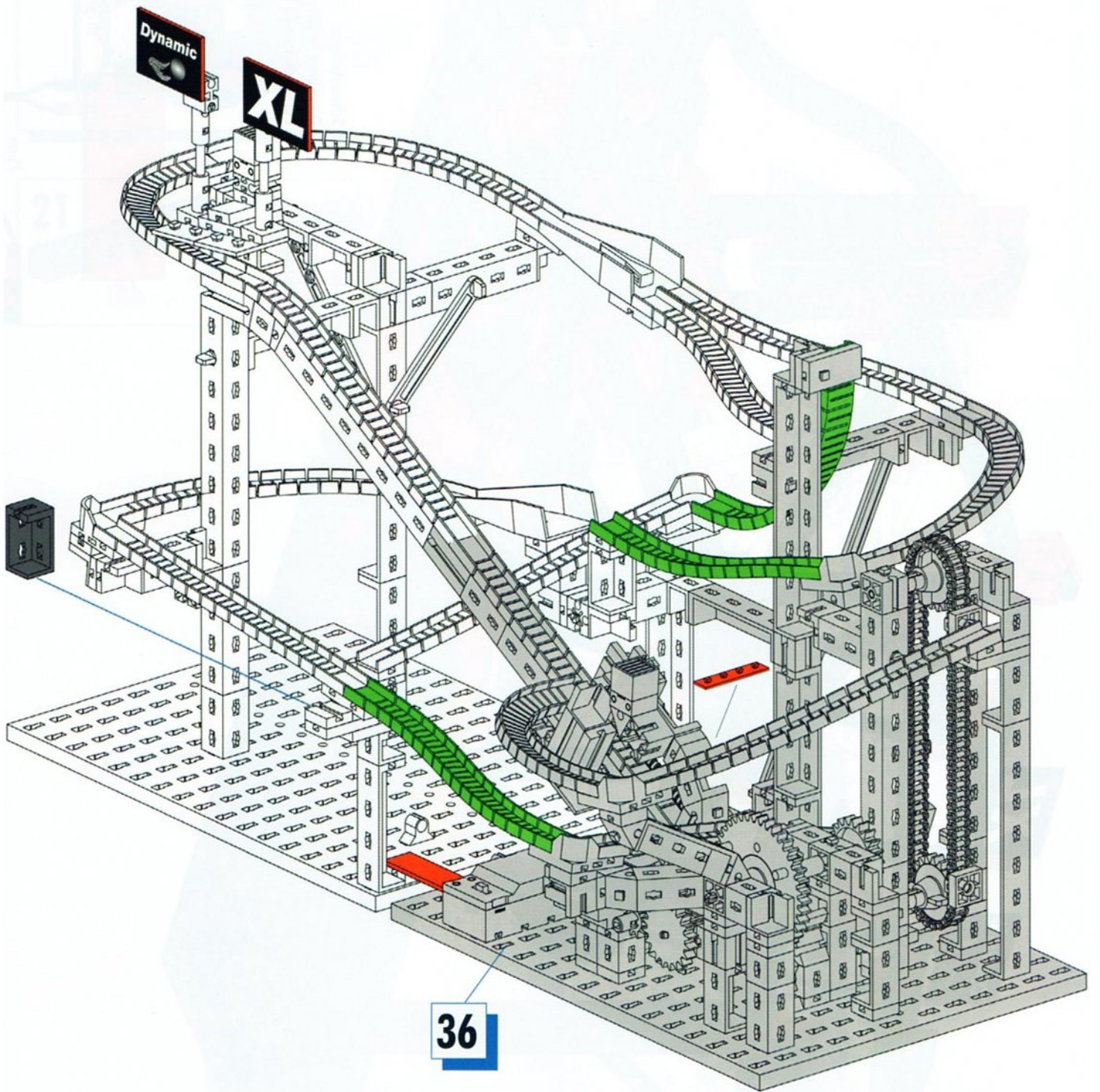
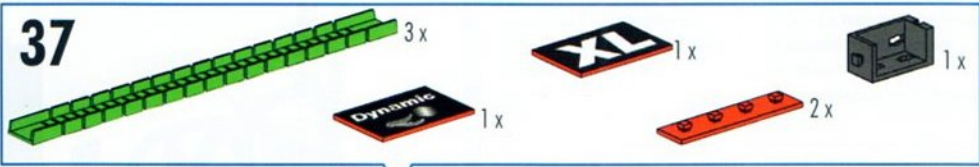
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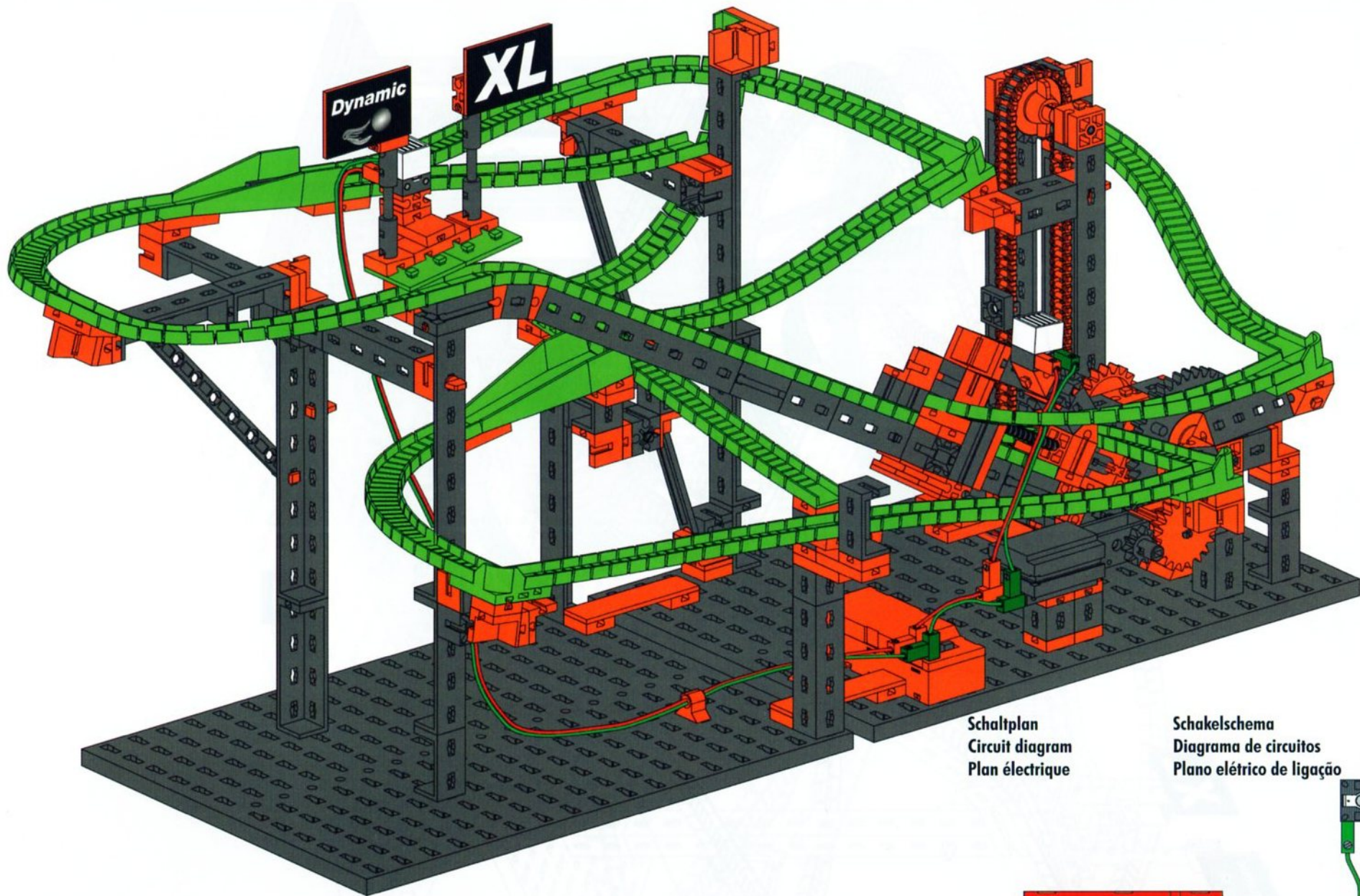


36



37

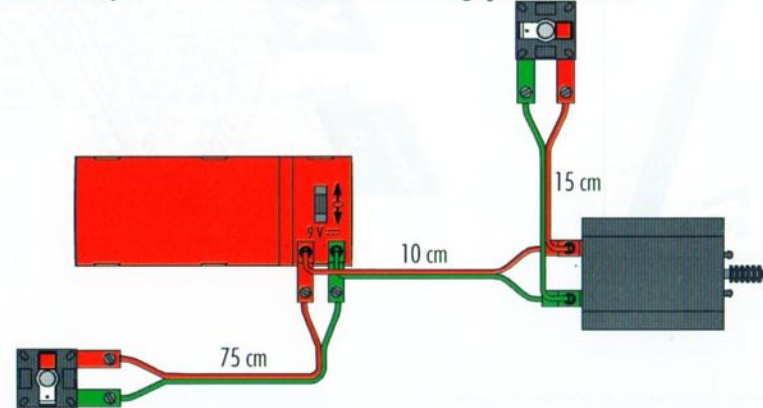




Schaltplan  
Circuit diagram  
Plan électrique

Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图



Rad- und Treppenförderer  
Wheel and stair step conveyor  
Transporteur à roue  
monte-escalier

Wiel- en trapsgewijze transporteur  
Transportador de ruedas y de  
escalera  
Transportadora de roda e de  
corrente

Convogliatore a ruota e a scala  
Роторный и лестничный  
транспортёр  
斗轮式和阶梯式输送机混合搭配

# 1-20

Treppenförderer  
Stair step conveyor  
Monte-escalier

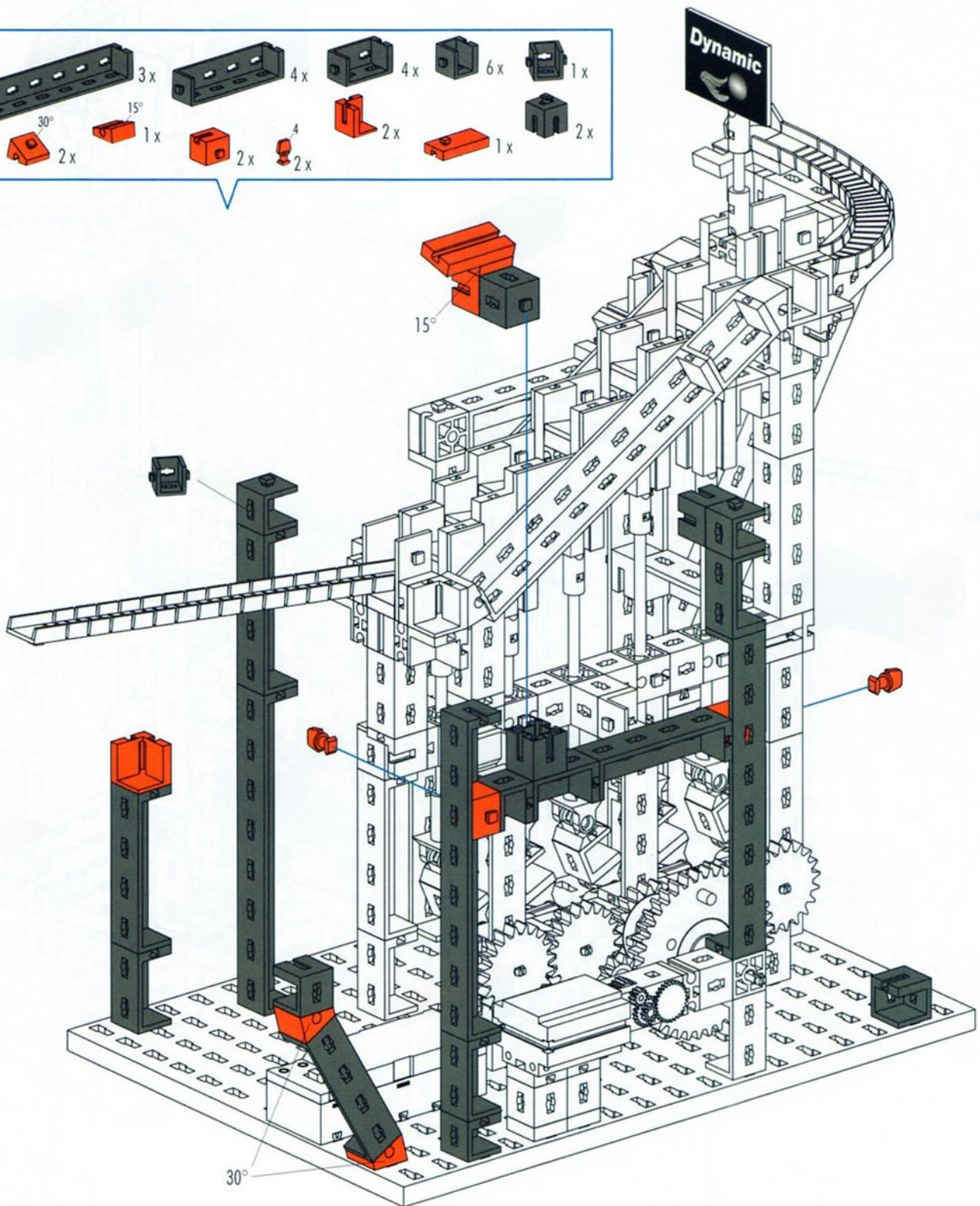
Trapsgewijze transporteur  
Transportador de escalera  
Transportadora de escada

Convogliatore a scala  
Лестничный транспортёр  
阶梯式输送机

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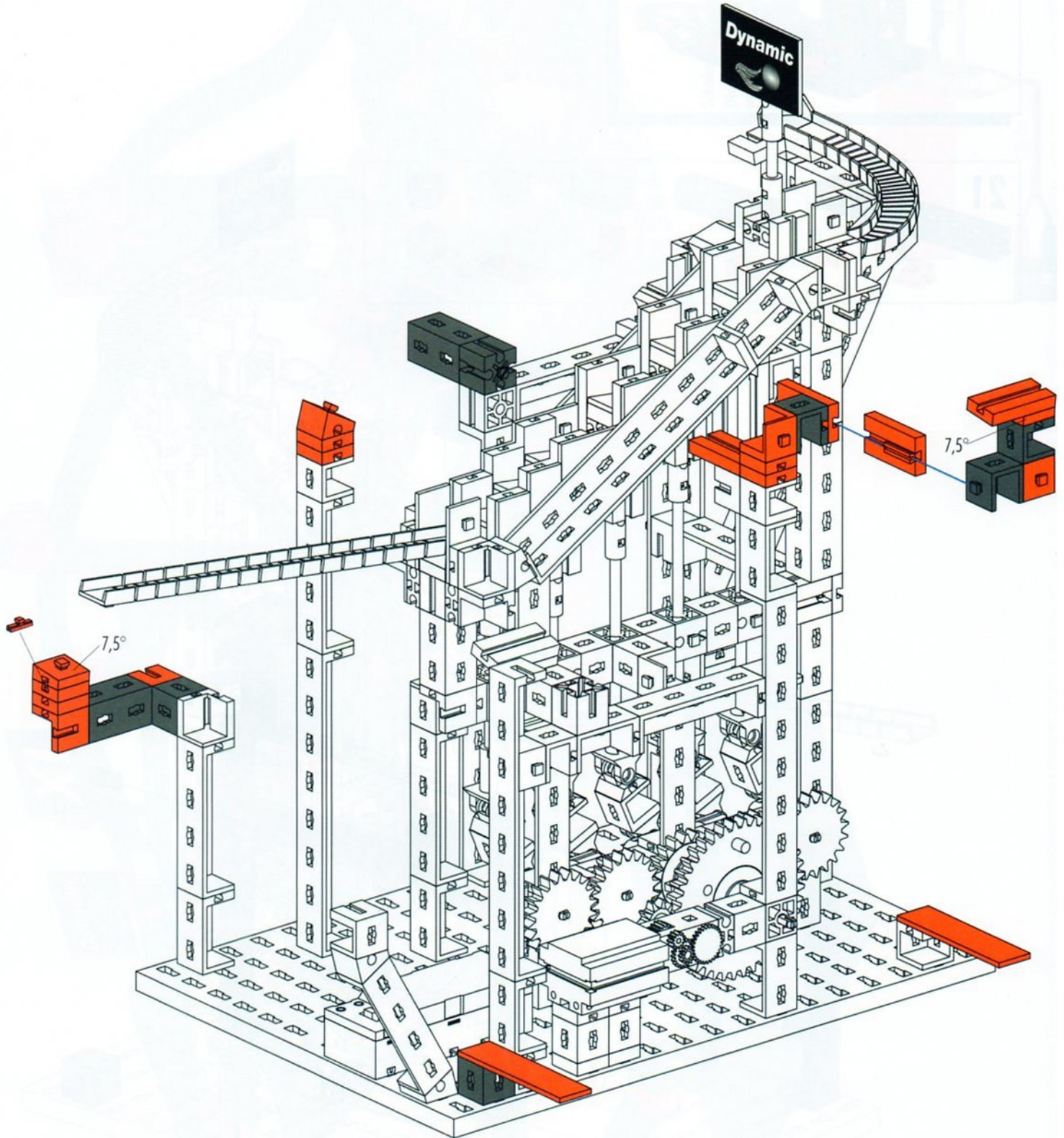
# 21

- 3x
- 4x
- 4x
- 6x
- 1x
- 2x
- 1x
- 2x
- 2x
- 2x
- 1x



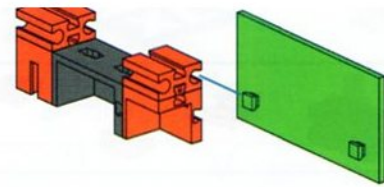
22

- 2x (grey 1x2 Technic brick)
- 4x (grey 1x2 Technic brick)
- 1x (grey 1x2 Technic brick)
- 1x (grey 1x2 Technic brick)
- 4x (orange 1x2 Technic brick)
- 4x (orange 1x2 Technic brick)
- 2x (orange 1x2 Technic brick)
- 1x (orange 1x2 Technic brick)
- 6x (orange 1x2 Technic brick)
- 2x (orange 1x2 Technic brick)

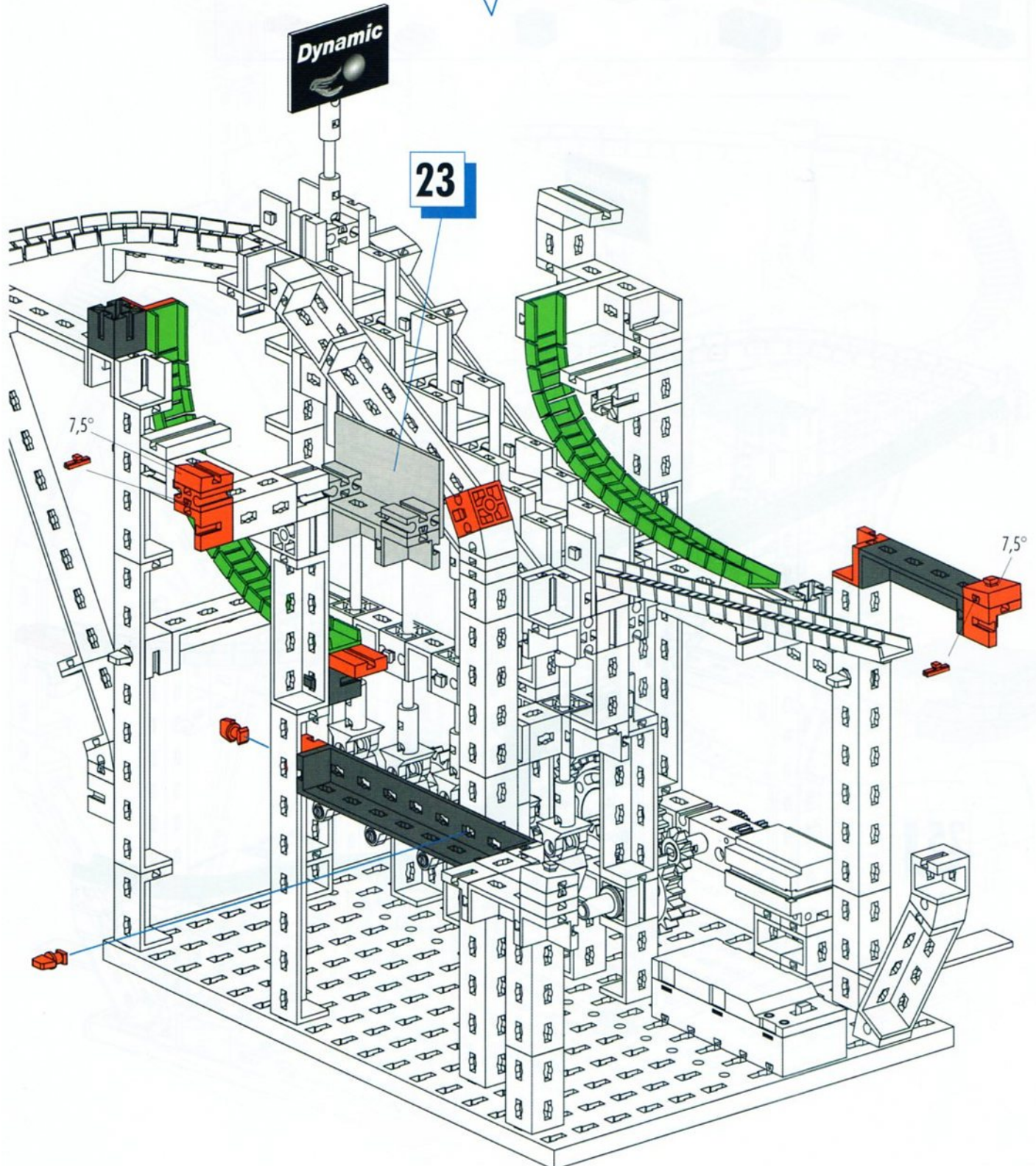
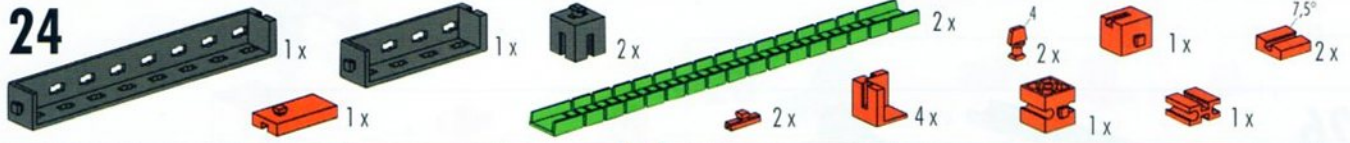




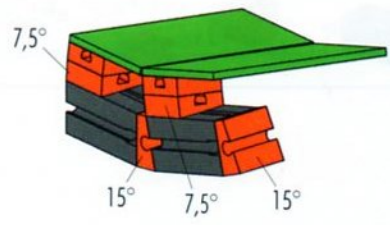
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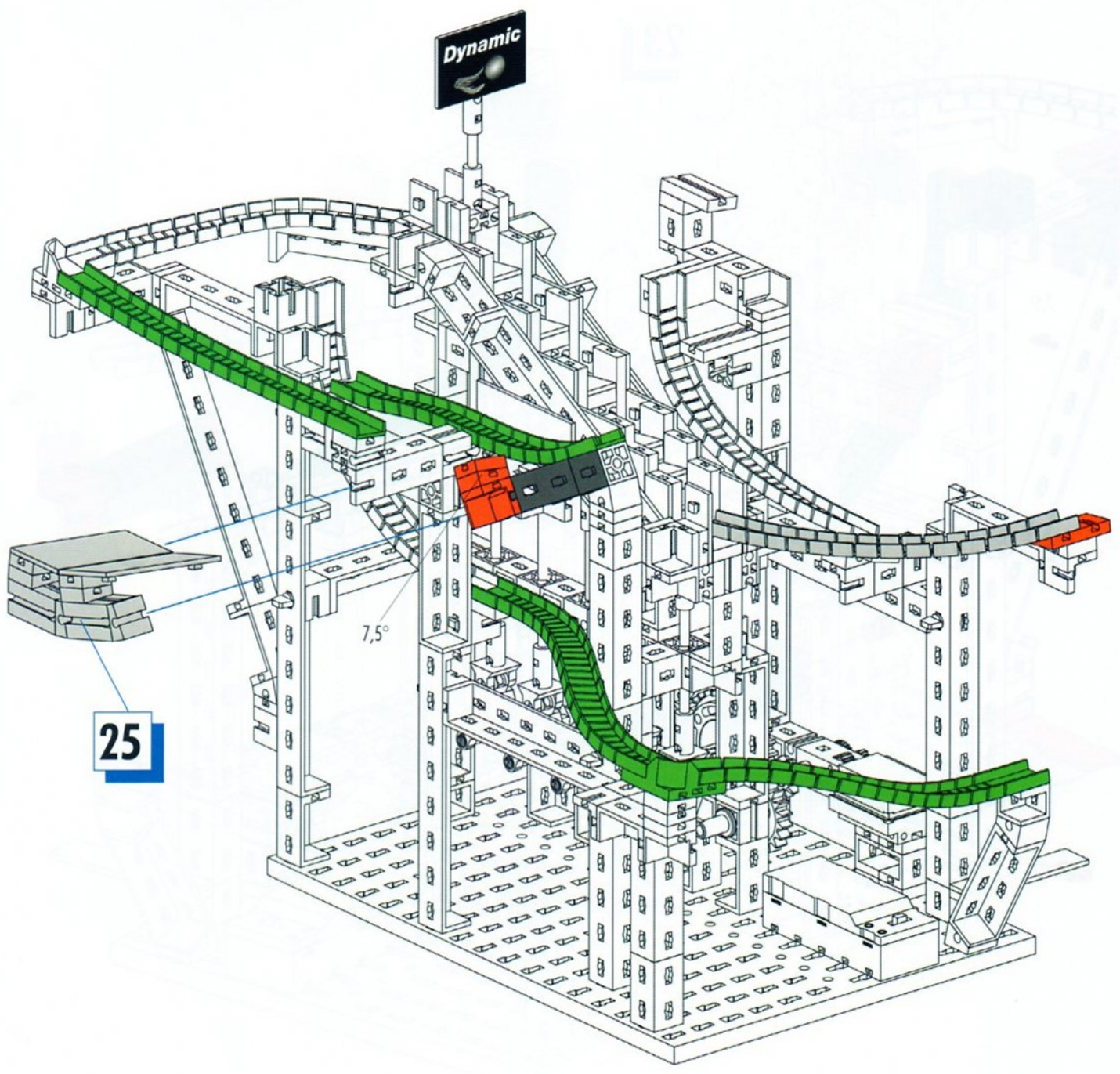
24



- 25**
- 2 x [Black Technic Beam]
  - 2 x [Red Technic Pin, 7.5°]
  - 2 x [Red Technic Pin, 15°]
  - 2 x [Red Technic Pin]
  - 2 x [Green Technic Plate]



- 26**
- 4 x [Green Technic Beam]
  - 1 x [Green Technic Connector]
  - 1 x [Red Technic Pin]
  - 1 x [Red Technic Pin]
  - 1 x [Black Technic Pin]
  - 1 x [Black Technic Pin]
  - 1 x [Red Technic Pin, 7.5°]
  - 1 x [Red Technic Pin]



# 1-24

Radförer  
Wheel conveyor  
Transporteur à roue

Wieltransporteur  
Transportador de ruedas  
Transportadora de roda

Convogliatore a ruota  
Роторный транспортёр  
斗轮输送机

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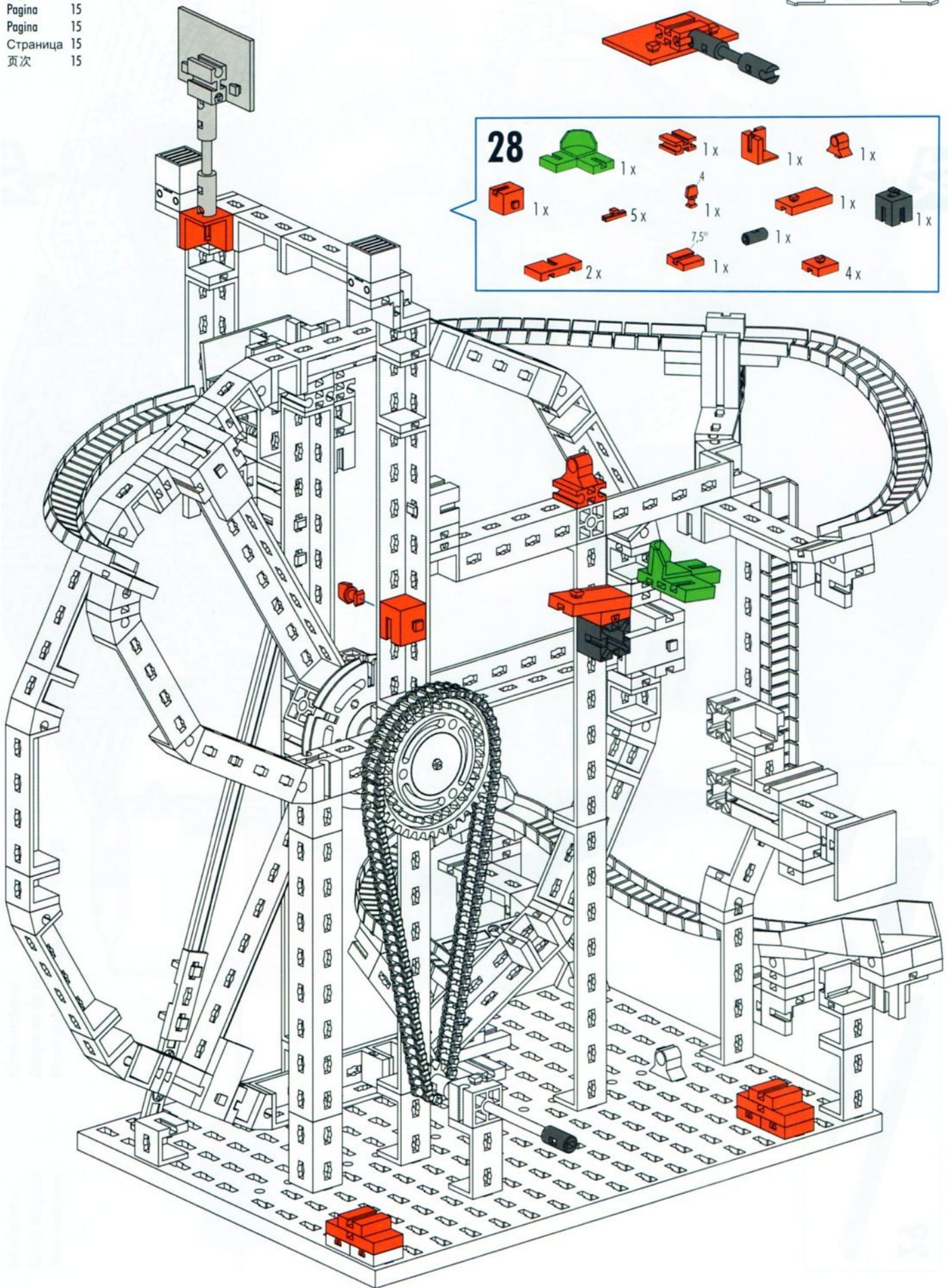
**27**

- 1x [Black 1x4 Technic Plate]
- 1x [Red 1x2 Technic Brick]
- 1x [Black 30mm Pin]
- 1x [Red 1x2 Technic Brick with Hole]
- 2x [Black 1x2 Technic Pin]

30 mm

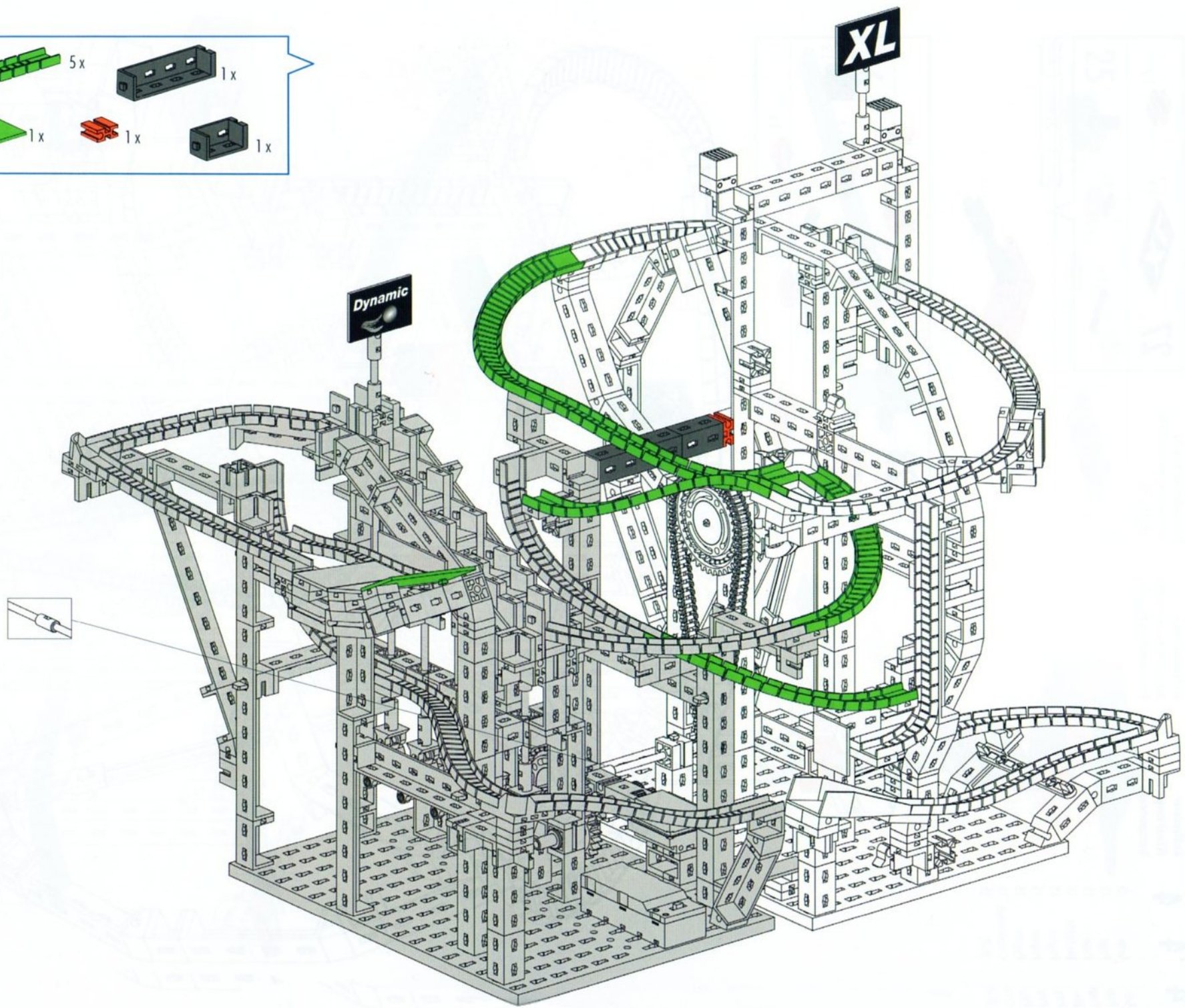
**28**

- 1x [Green 1x2 Technic Brick]
- 1x [Red 1x2 Technic Brick]
- 1x [Red 1x2 Technic Brick with Hole]
- 1x [Red 1x2 Technic Brick with Hole]
- 1x [Red 1x2 Technic Brick with Hole]
- 1x [Red 1x2 Technic Brick with Hole]
- 5x [Red 1x2 Technic Brick with Hole]
- 1x [Red 1x2 Technic Brick with Hole]
- 1x [Red 1x2 Technic Brick with Hole]
- 1x [Black 1x2 Technic Pin]
- 1x [Black 1x2 Technic Pin]
- 1x [Black 1x2 Technic Pin]
- 2x [Red 1x2 Technic Brick with Hole]
- 1x [Red 1x2 Technic Brick with Hole]
- 4x [Red 1x2 Technic Brick with Hole]



**29**

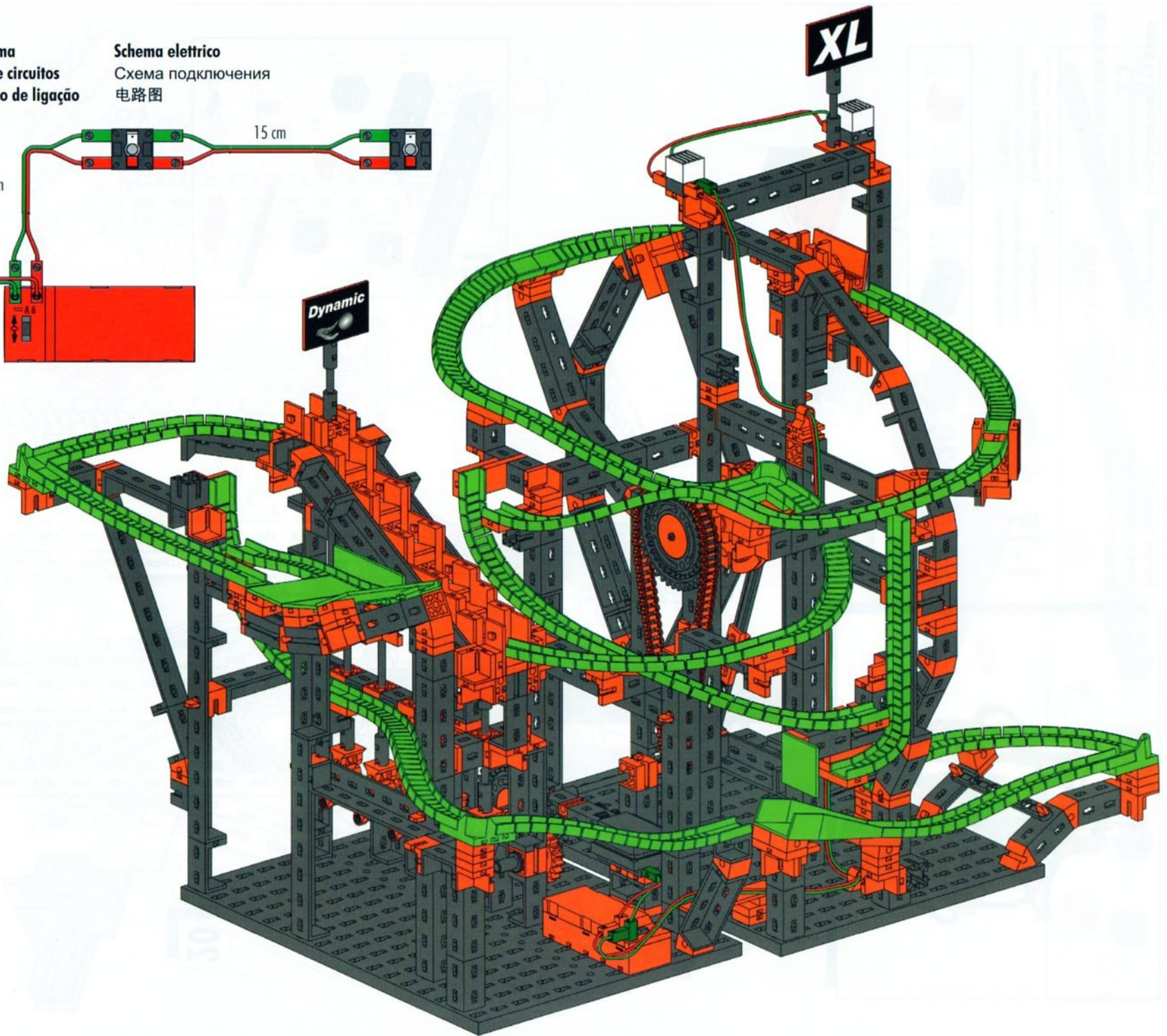
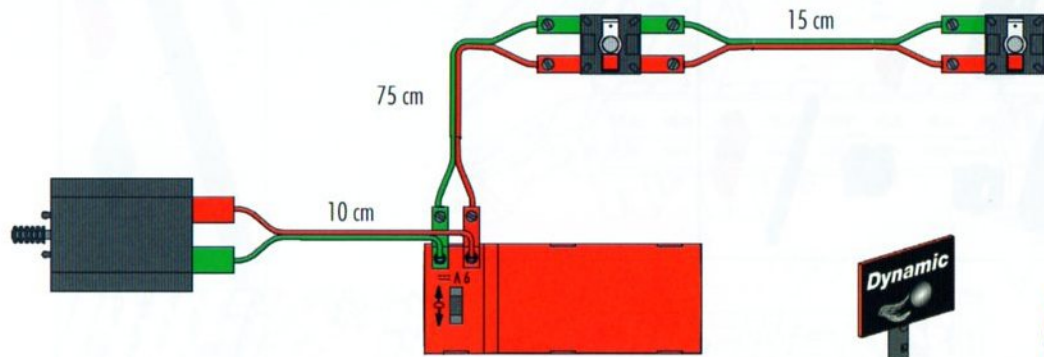
- 5x Green Technic Beam (1x15)
- 1x Black Technic Beam (1x5)
- 1x Green Technic Plate (1x5)
- 1x Red Technic Pin
- 1x Black Technic Pin

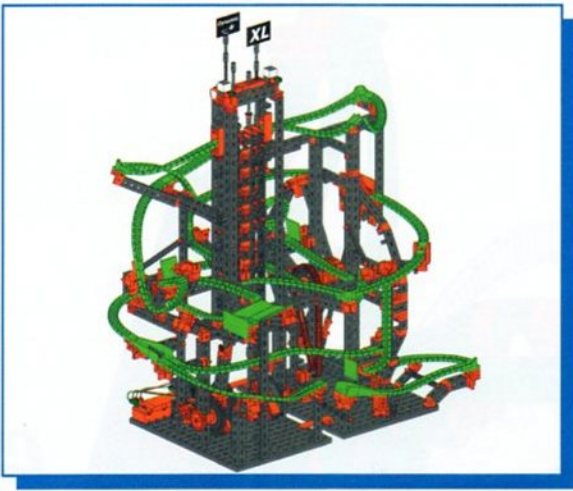


Schaltplan  
Circuit diagram  
Plan électrique

Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图





Rad- und Stufenförderer  
Wheel and stage conveyor  
Transporteur à roue vertical

Wieltransporter en paternosterlift  
Transportador de ruedas y de escalones  
Transportadora de roda e de degraus

Convogliatore a ruota e a gradini  
Роторный и ступенчатый транспортёр  
斗轮式和矿井升降带式输送机混合搭配

# 1-19

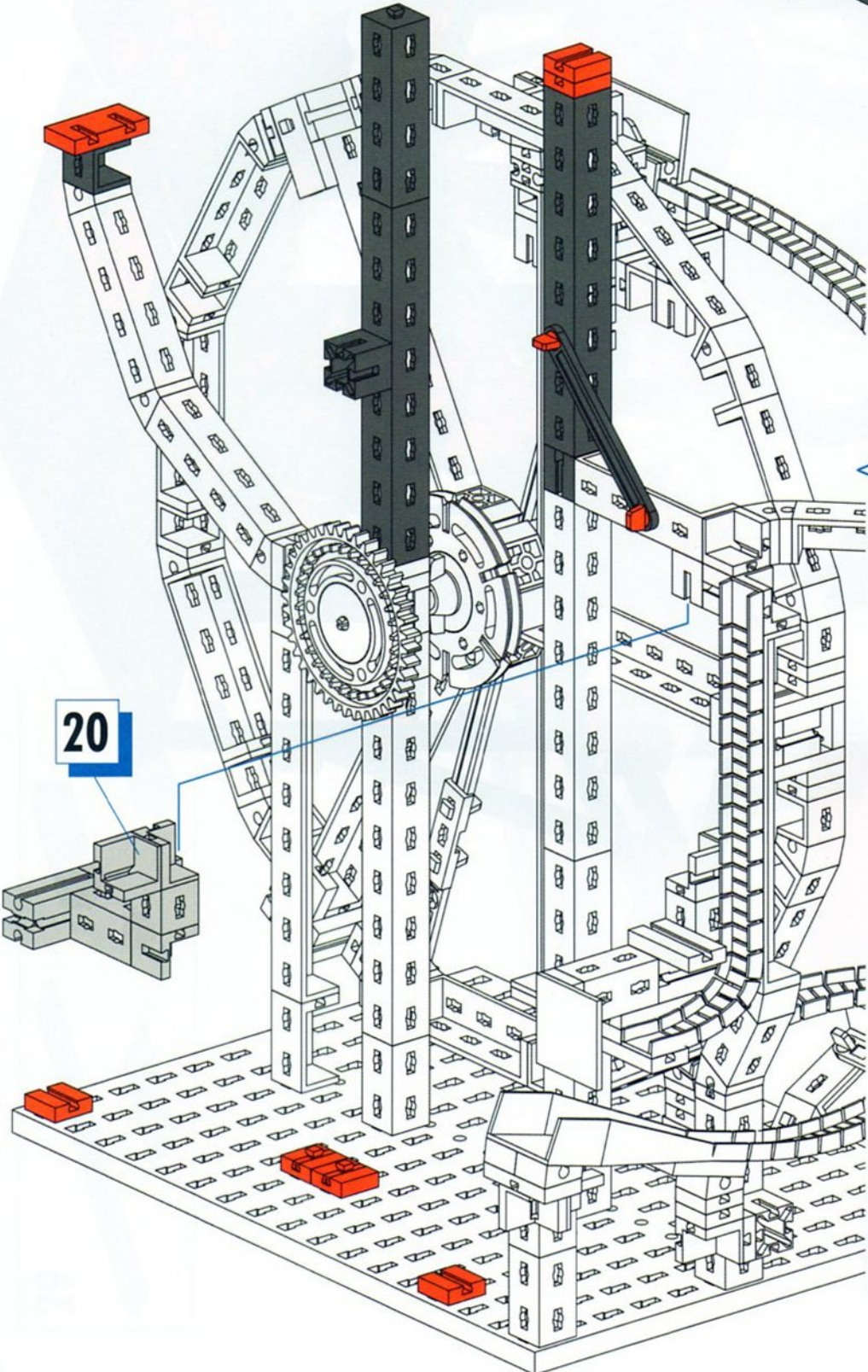
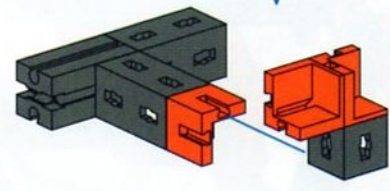
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Radförderer  
Wheel conveyor  
Transporteur à roue

Wieltransporteur  
Transportador de ruedas  
Transportadora de roda

Convogliatore a ruota  
Роторный транспортёр  
斗轮输送机

**20**  1x  2x  1x  3x

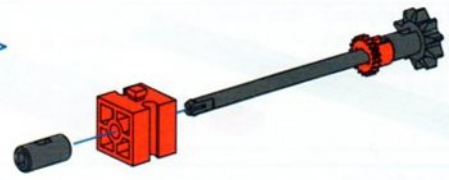


**21**  2x  1x  1x  1x  6x  2x  1x  2x



24

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



25

- 1x
- 1x
- 3x
- 1x
- 2x
- 83x
- 1x
- 2x
- 3x
- 1x
- 1x
- 1x
- 3x
- 1x
- 1x
- 1x
- 1x
- 1x

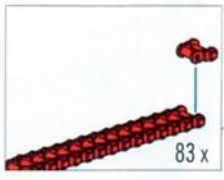
23

7,5°

15°

1.

2.



83x

24



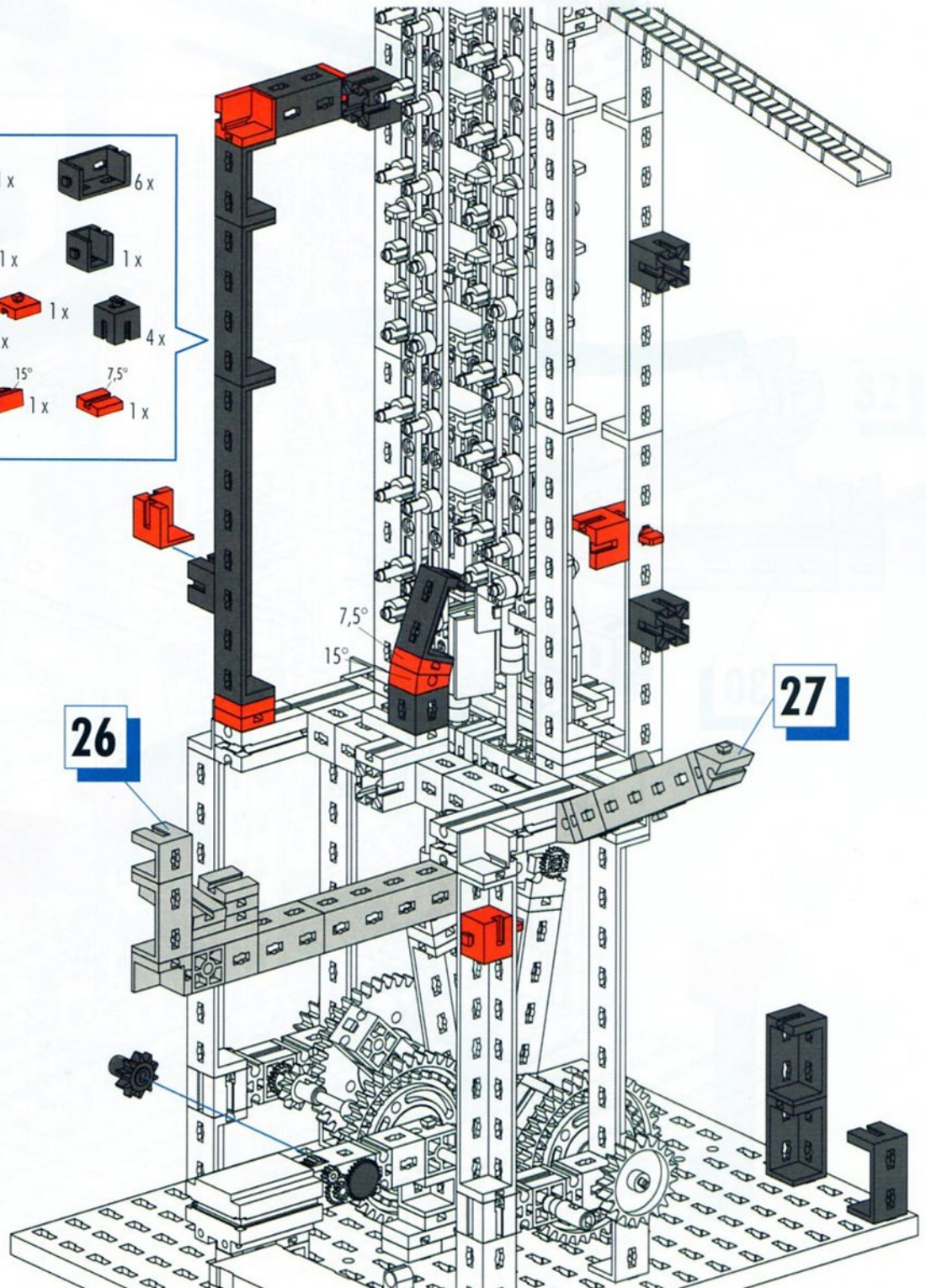
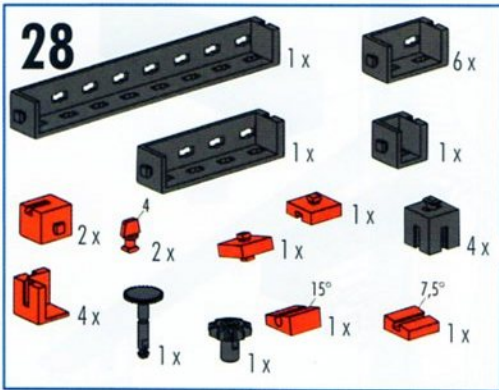
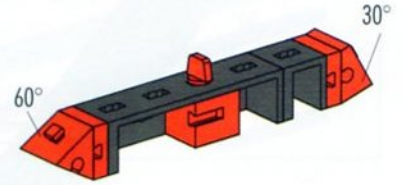
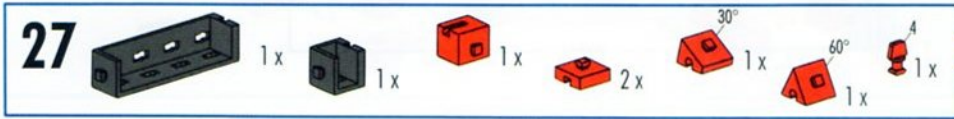
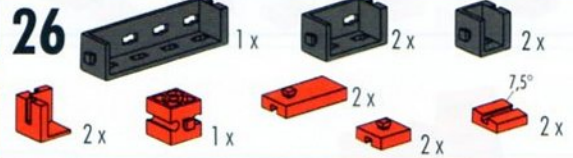
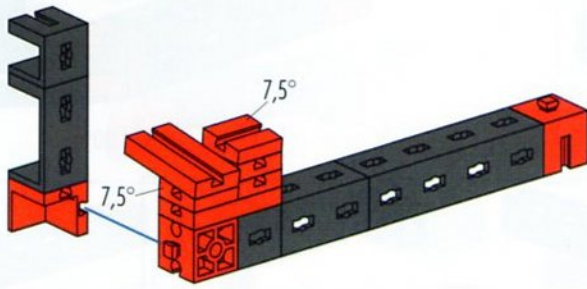
# 1-27

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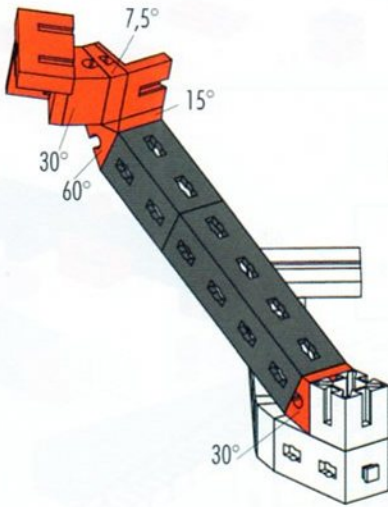
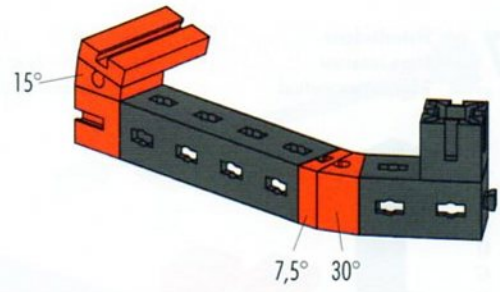
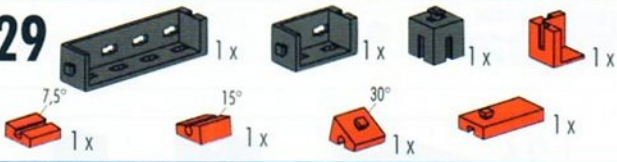
**Stufenförderer**  
**Stage conveyor**  
**Transporteur vertical**

**Paternosterlift**  
**Transportador de escalones**  
**Transportadora de degraus**

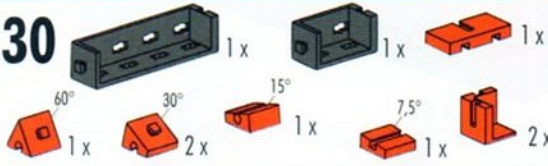
**Convogliatore a gradini**  
**Ступенчатый транспортёр**  
**矿井升降机式输送机**



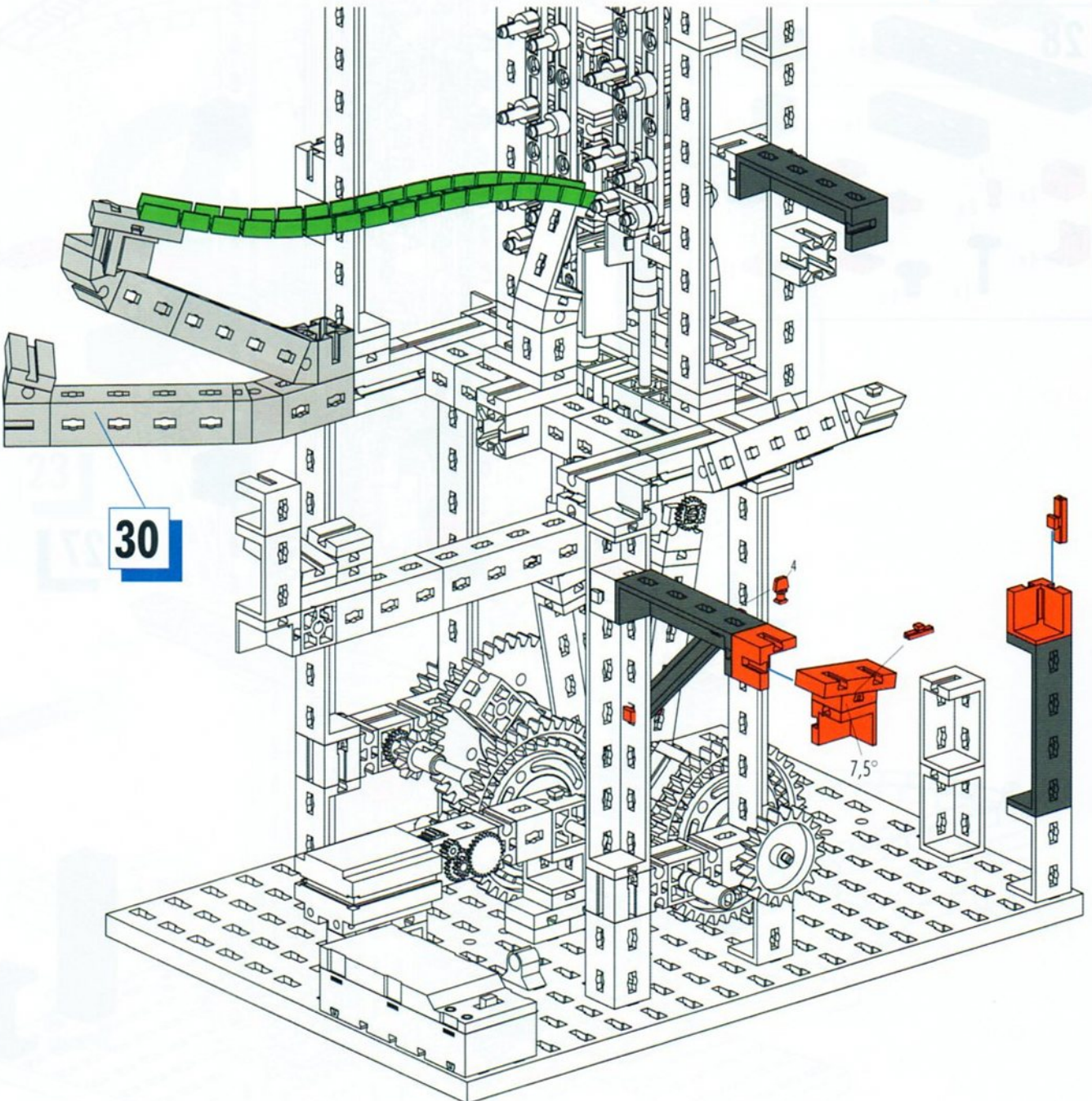
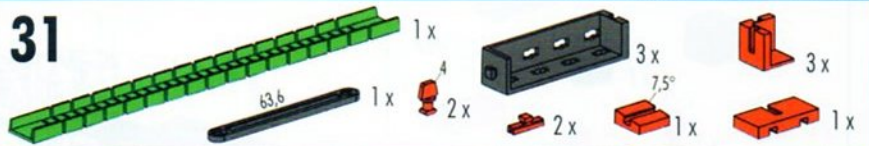
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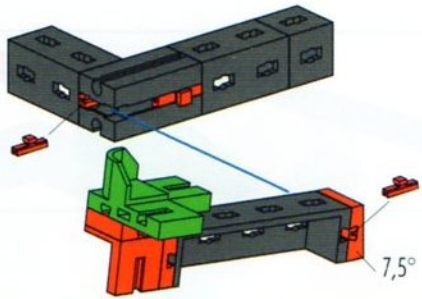


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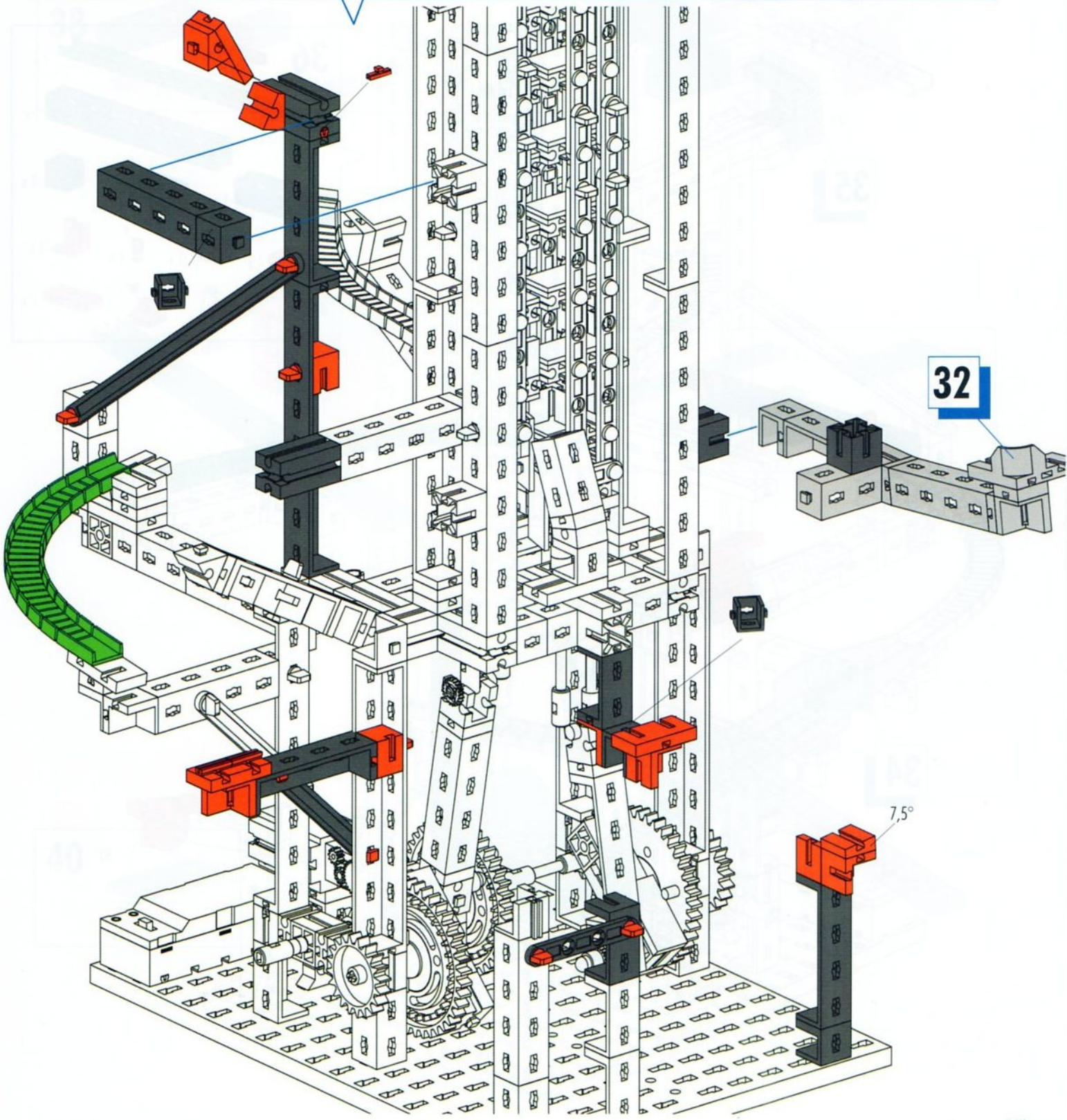
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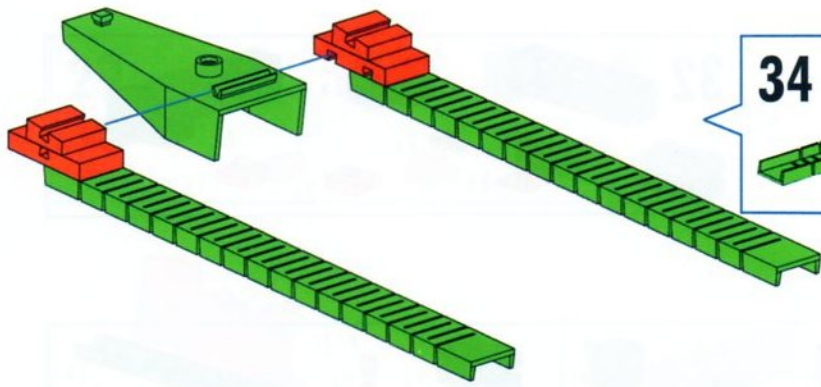


- 32**
- 1x grey 1-hole Technic beam
  - 2x grey 2-hole Technic beam
  - 1x grey 3-hole Technic beam
  - 1x green 3-way connector
  - 1x black 1-hole Technic beam
  - 1x red 1-hole Technic beam
  - 3x red 1-hole Technic pins
  - 2x red 2-hole Technic pins
  - 1x red 7.5 degree Technic pin

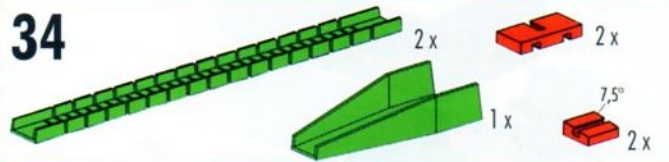
- 33**
- 1x grey 1-hole Technic beam
  - 4x grey 2-hole Technic beam
  - 2x grey 3-hole Technic beam
  - 1x black 1-hole Technic beam
  - 1x black 2-hole Technic beam
  - 2x black 3-hole Technic beam
  - 1x red 1-hole Technic beam
  - 2x red 2-hole Technic pins
  - 1x red 7.5 degree Technic pin
  - 5x red 1-hole Technic pins
  - 2x red 2-hole Technic pins
  - 3x red 1-hole Technic pins
  - 2x red 2-hole Technic pins
  - 2x black 1-hole Technic pins
  - 2x black 2-hole Technic pins
  - 8x red 1-hole Technic pins
  - 1x green Technic axle (length 169.6)
  - 1x black Technic axle (length 63.6)
  - 1x black Technic axle (length 45)



**32**



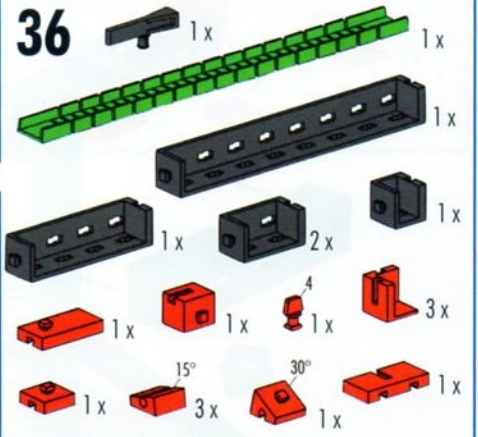
**34**



**35**

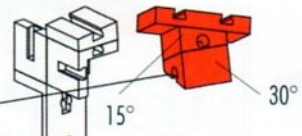
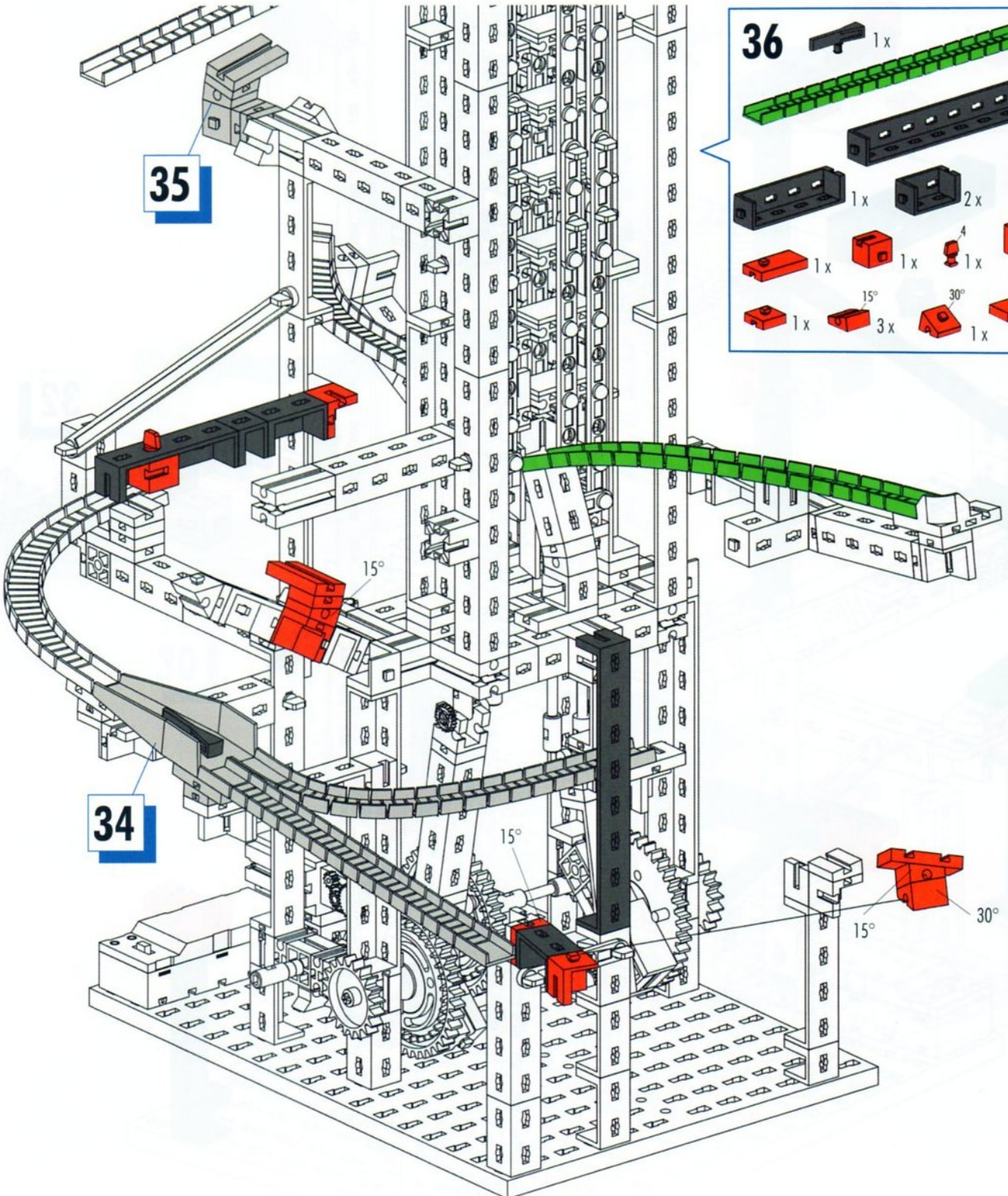


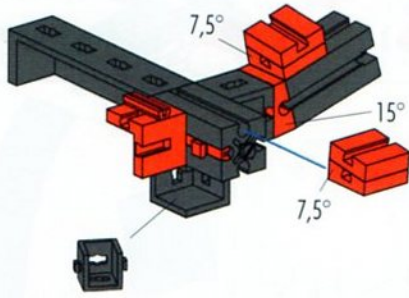
**36**



**35**

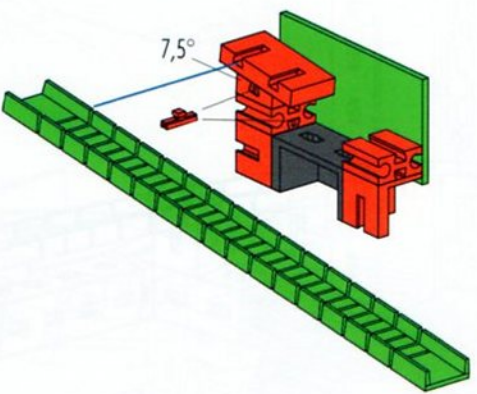
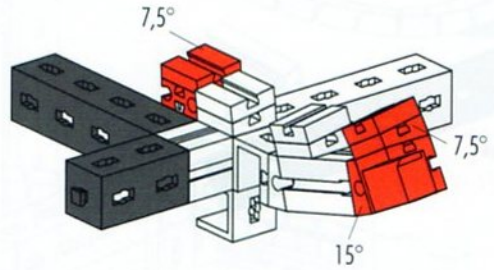
**34**





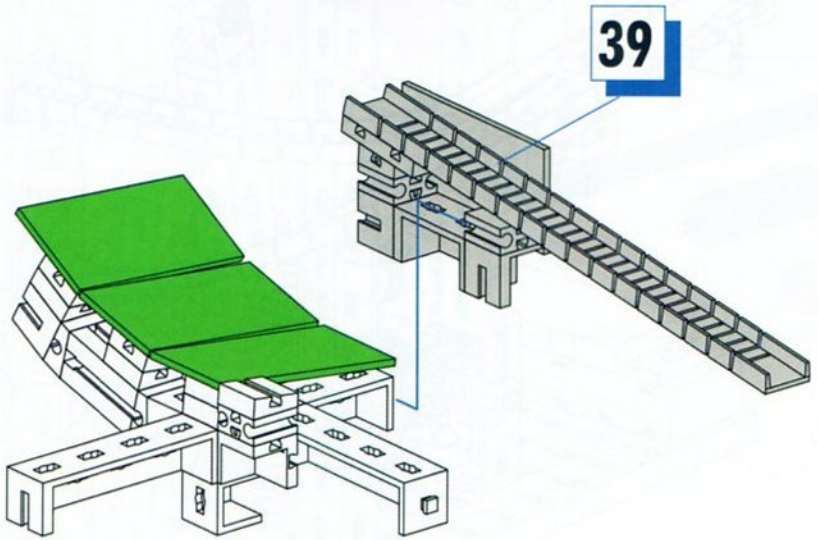
- 37**
- 1x black 1x7 Technic beam
  - 1x black 1x3 Technic beam
  - 1x black 1x3 Technic connector
  - 1x black 1x3 Technic connector
  - 2x black 1x3 Technic connector
  - 1x red 1x3 Technic connector
  - 2x red 1x3 Technic connector
  - 2x red 1x3 Technic connector
  - 2x red 1x3 Technic connector
  - 1x red 1x3 Technic connector

- 38**
- 1x black 1x7 Technic beam
  - 1x black 1x3 Technic beam
  - 1x red 1x3 Technic connector
  - 1x red 1x3 Technic connector
  - 1x red 1x3 Technic connector
  - 2x red 1x3 Technic connector
  - 1x red 1x3 Technic connector



- 39**
- 2x red 1x3 Technic connector
  - 1x green 1x15 Technic beam
  - 1x green 1x15 Technic plate
  - 2x red 1x3 Technic connector
  - 1x black 1x3 Technic connector
  - 1x red 1x3 Technic connector
  - 1x red 1x3 Technic connector
  - 2x red 1x3 Technic connector
  - 1x red 1x3 Technic connector

- 40**
- 3x green 1x15 Technic plate



41



1x



1x



1x



3x



2x



3x



2x



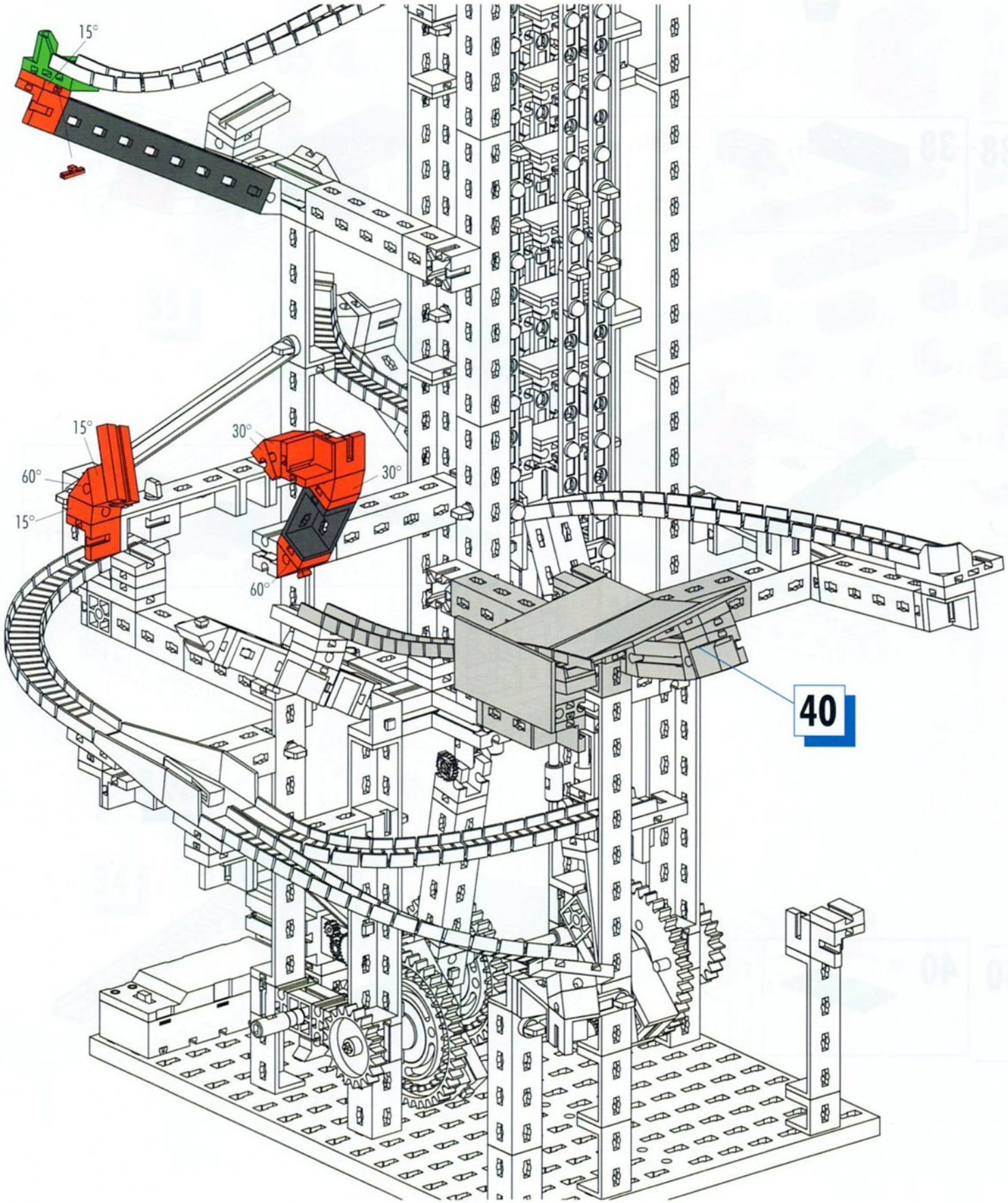
1x



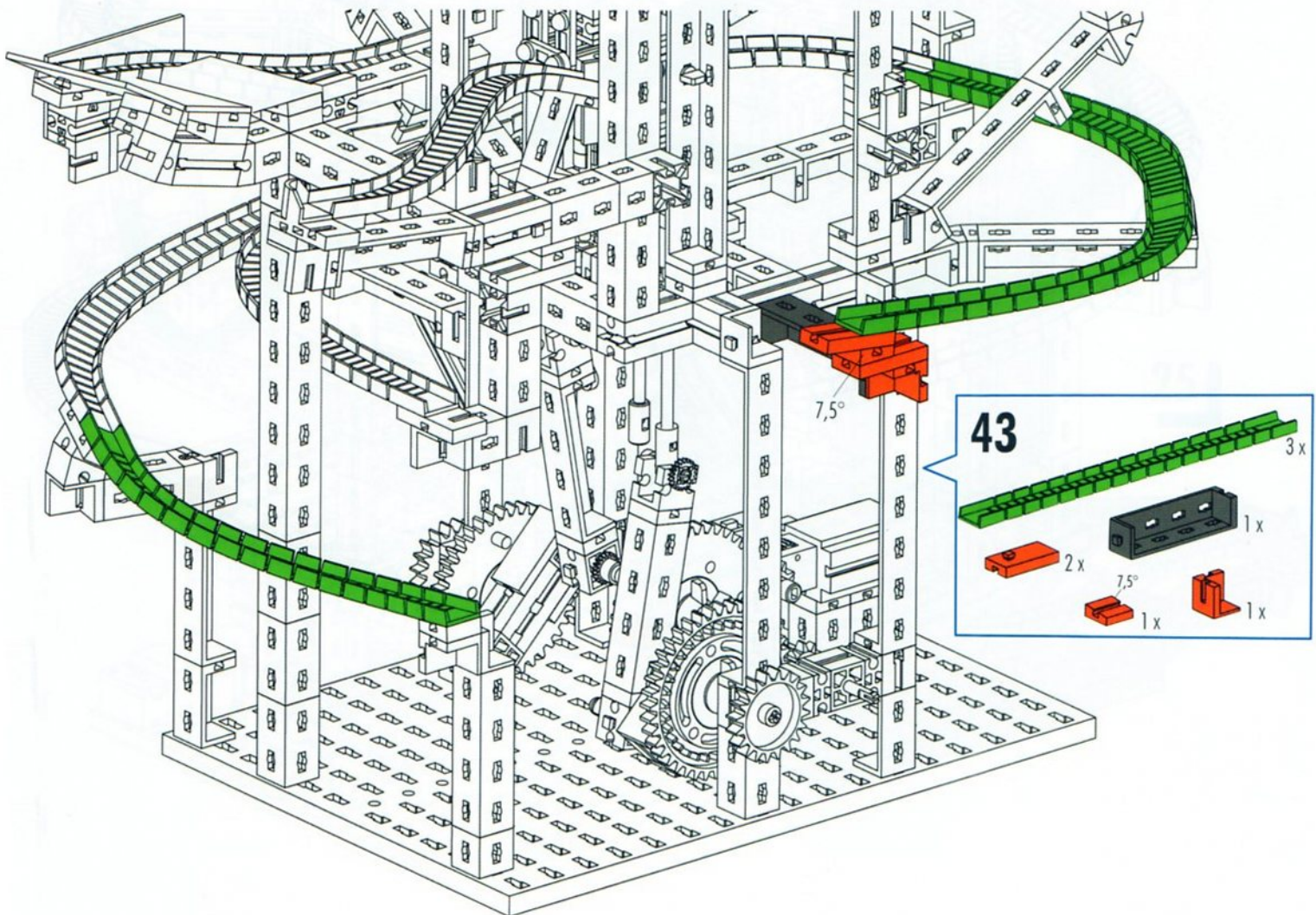
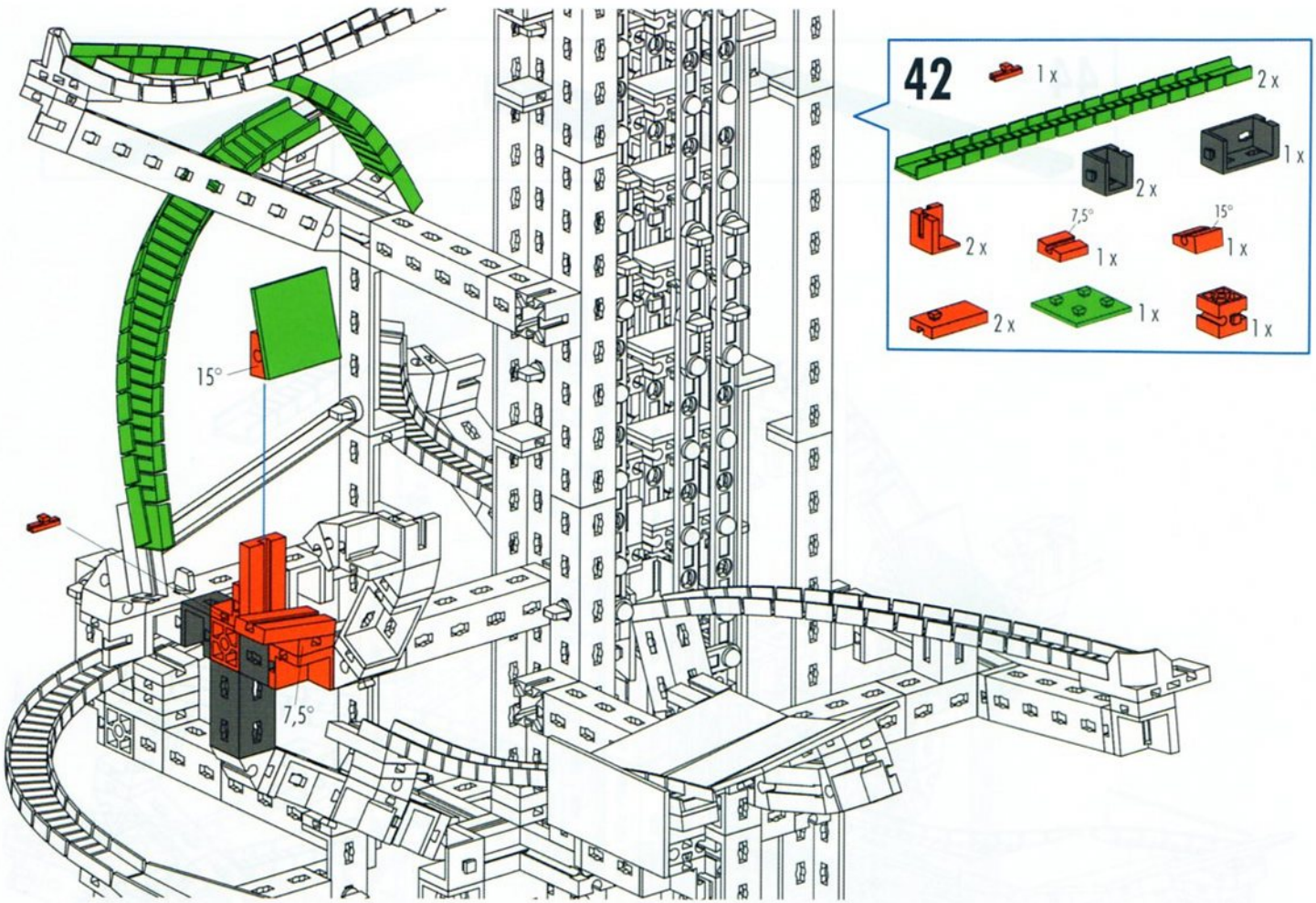
4x



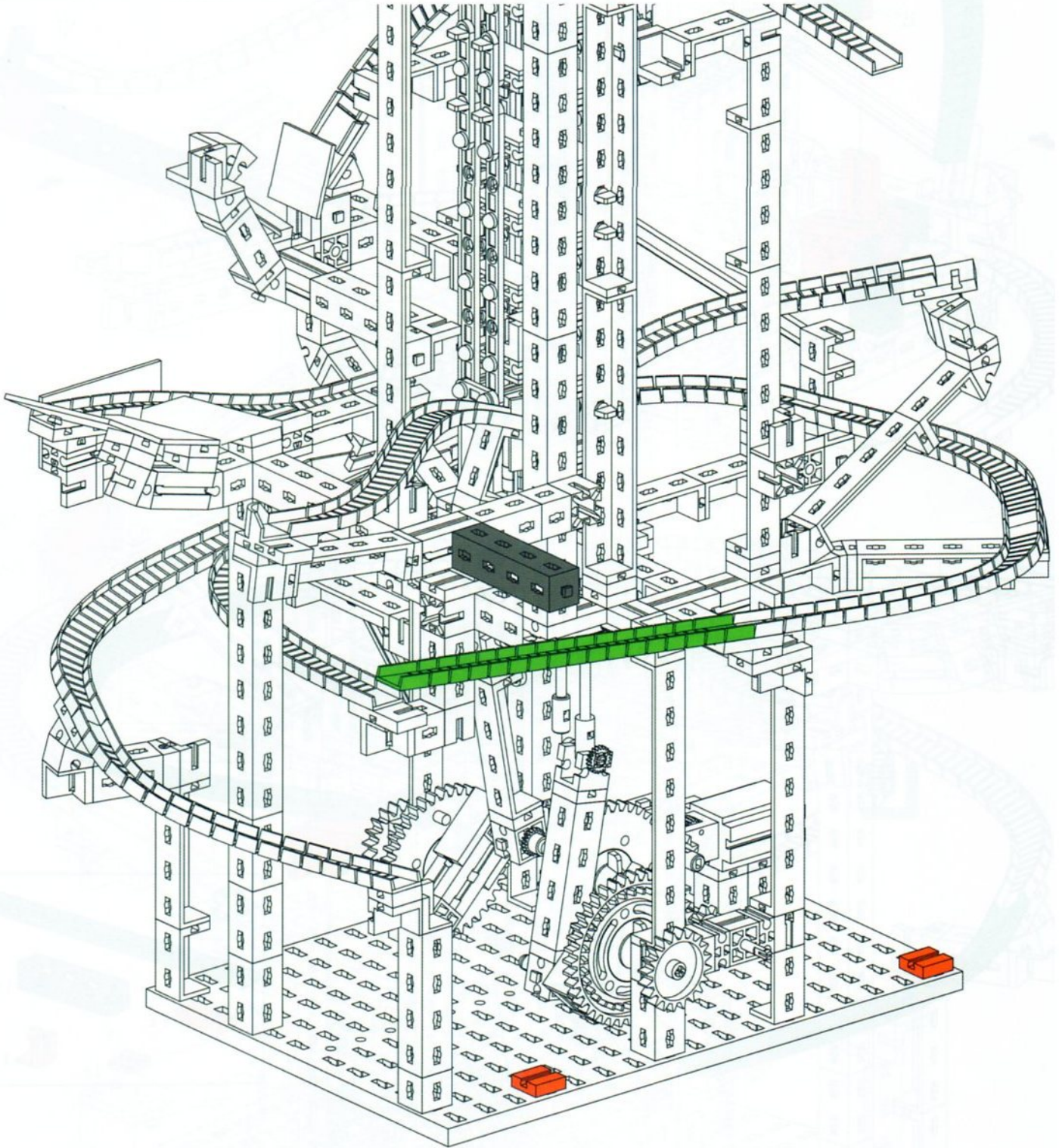
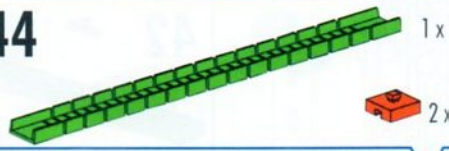
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40

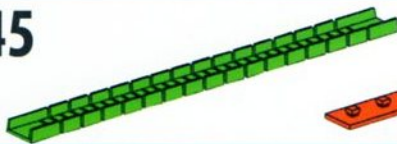


44





45



5 x



1 x

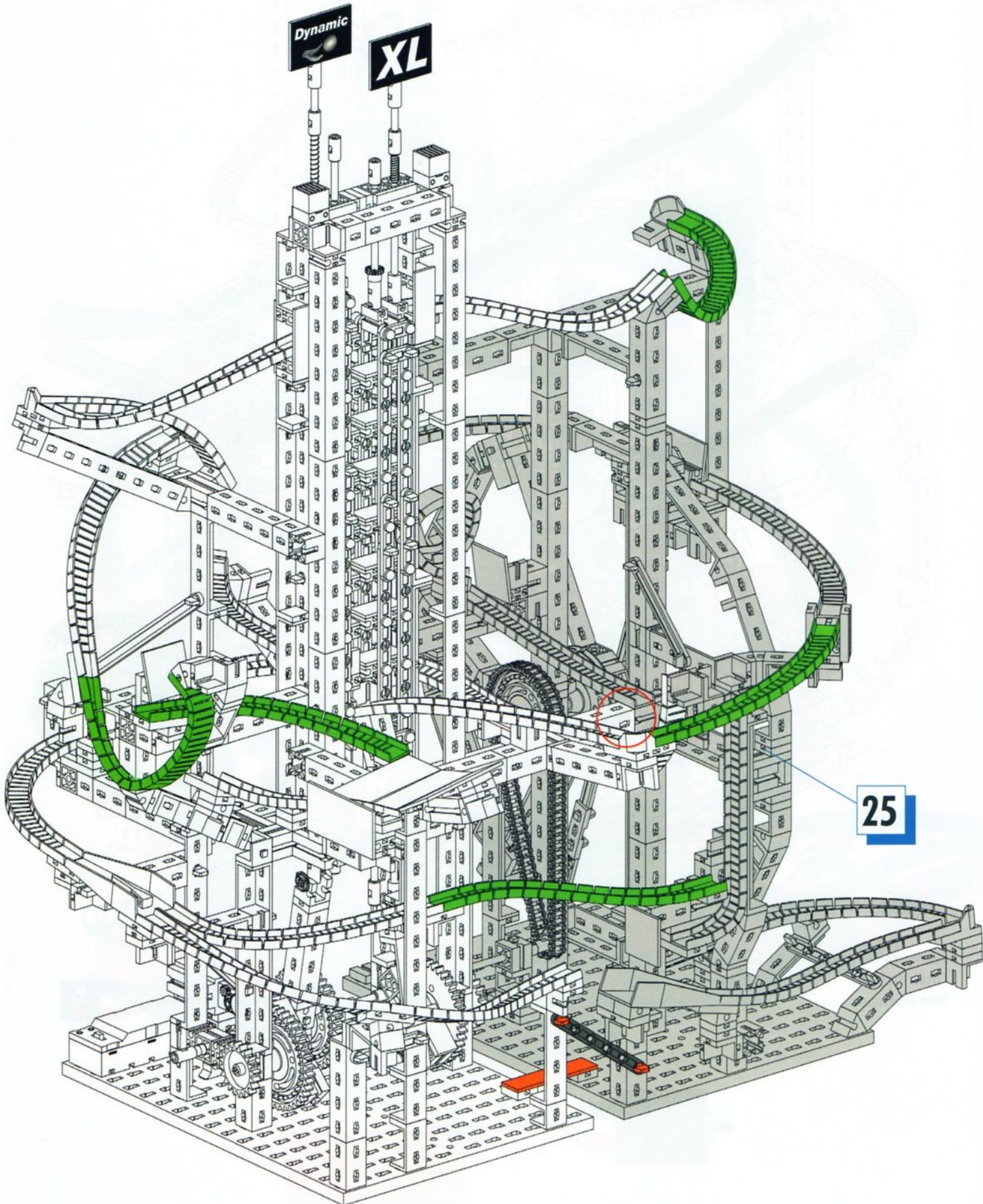


75

1 x

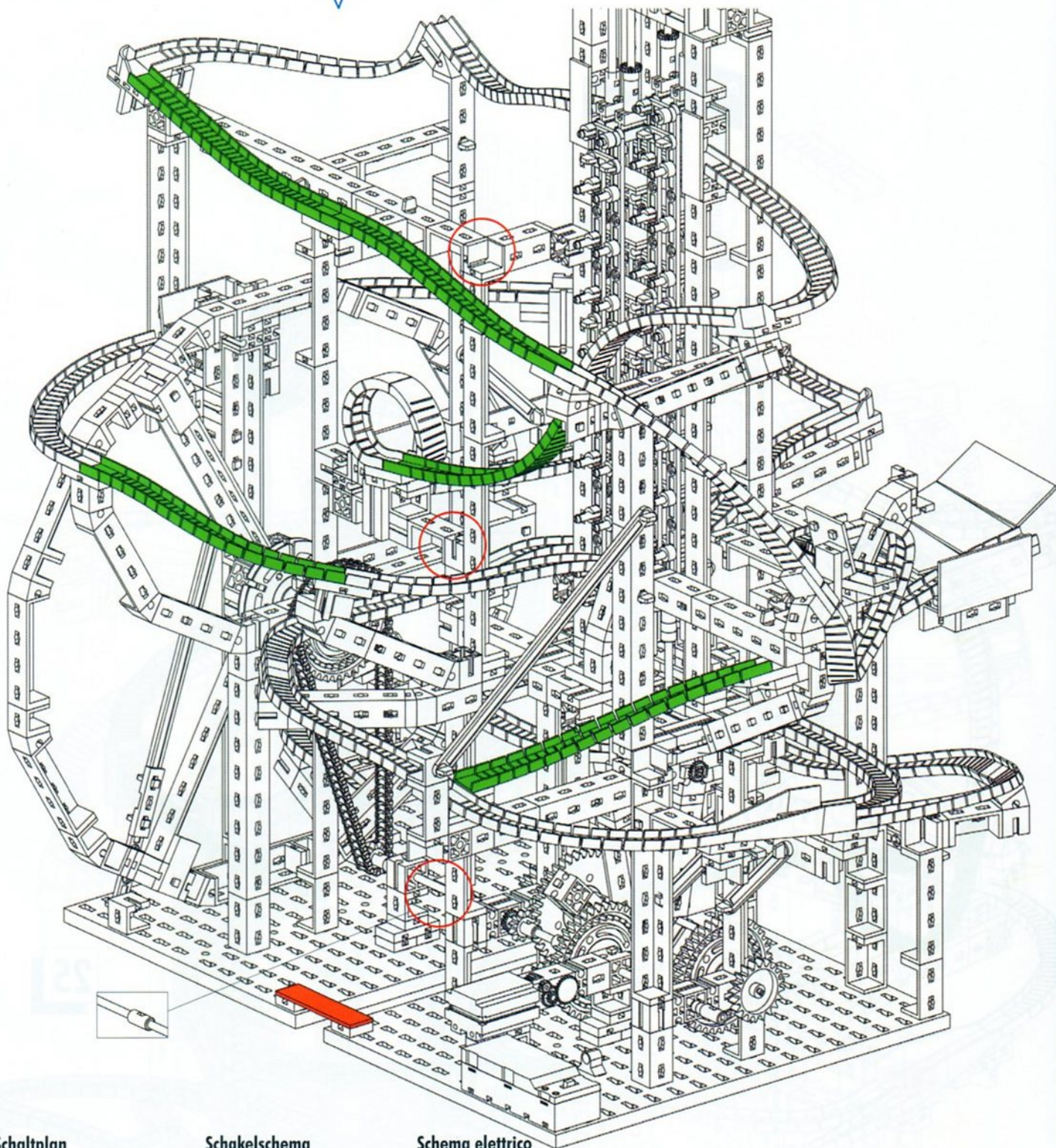
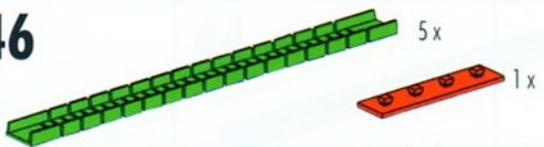


2 x



25

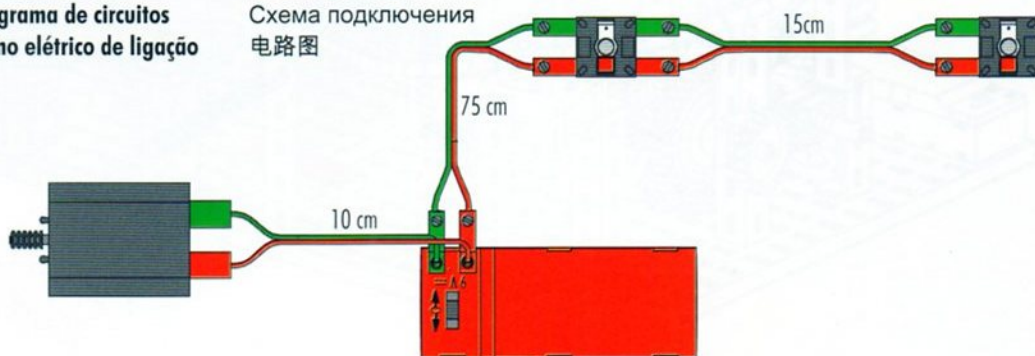
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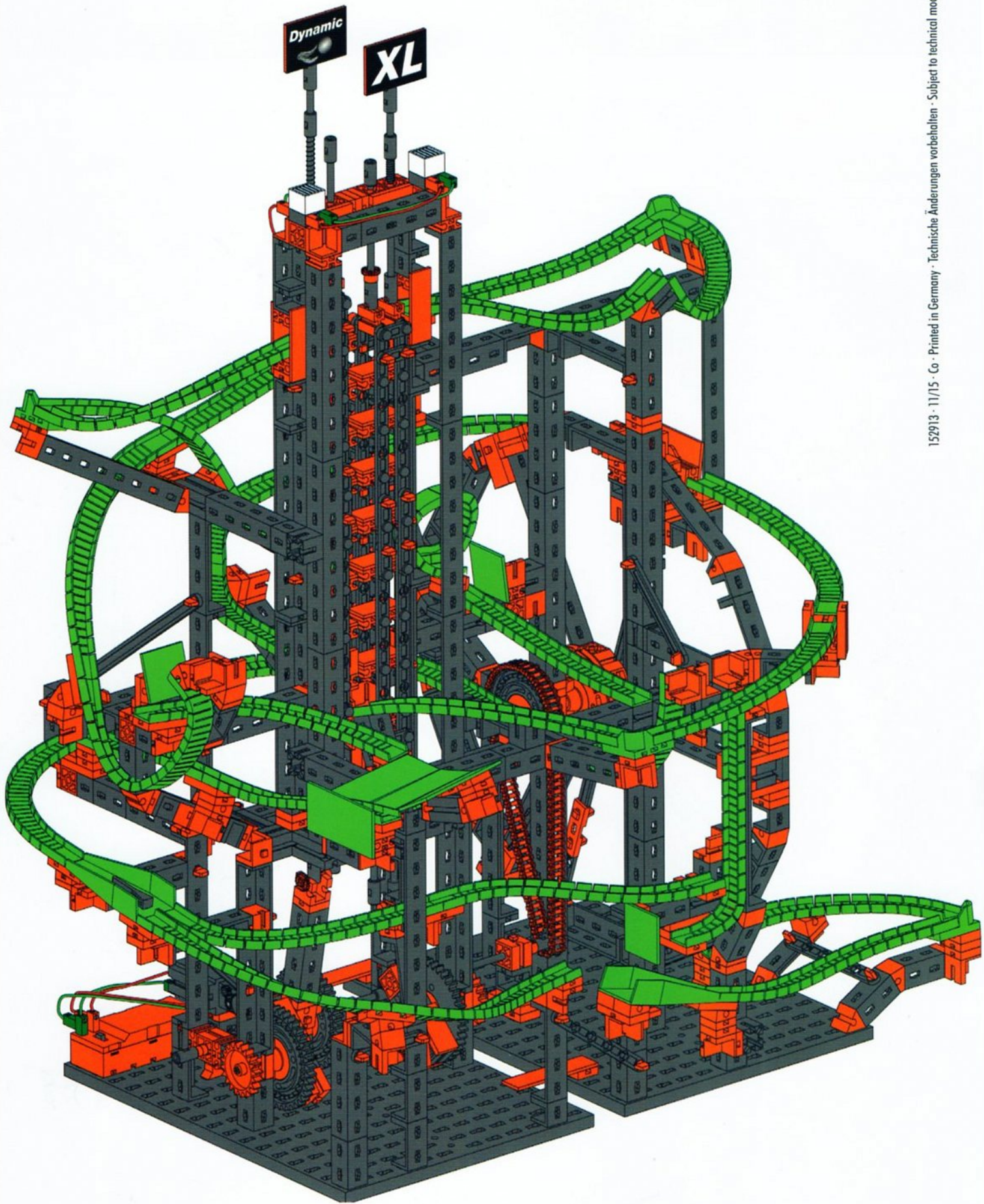


Schaltplan  
Circuit diagram  
Plan électrique

Schakelschema  
Diagrama de circuitos  
Plano elétrico de ligação

Schema elettrico  
Схема подключения  
电路图







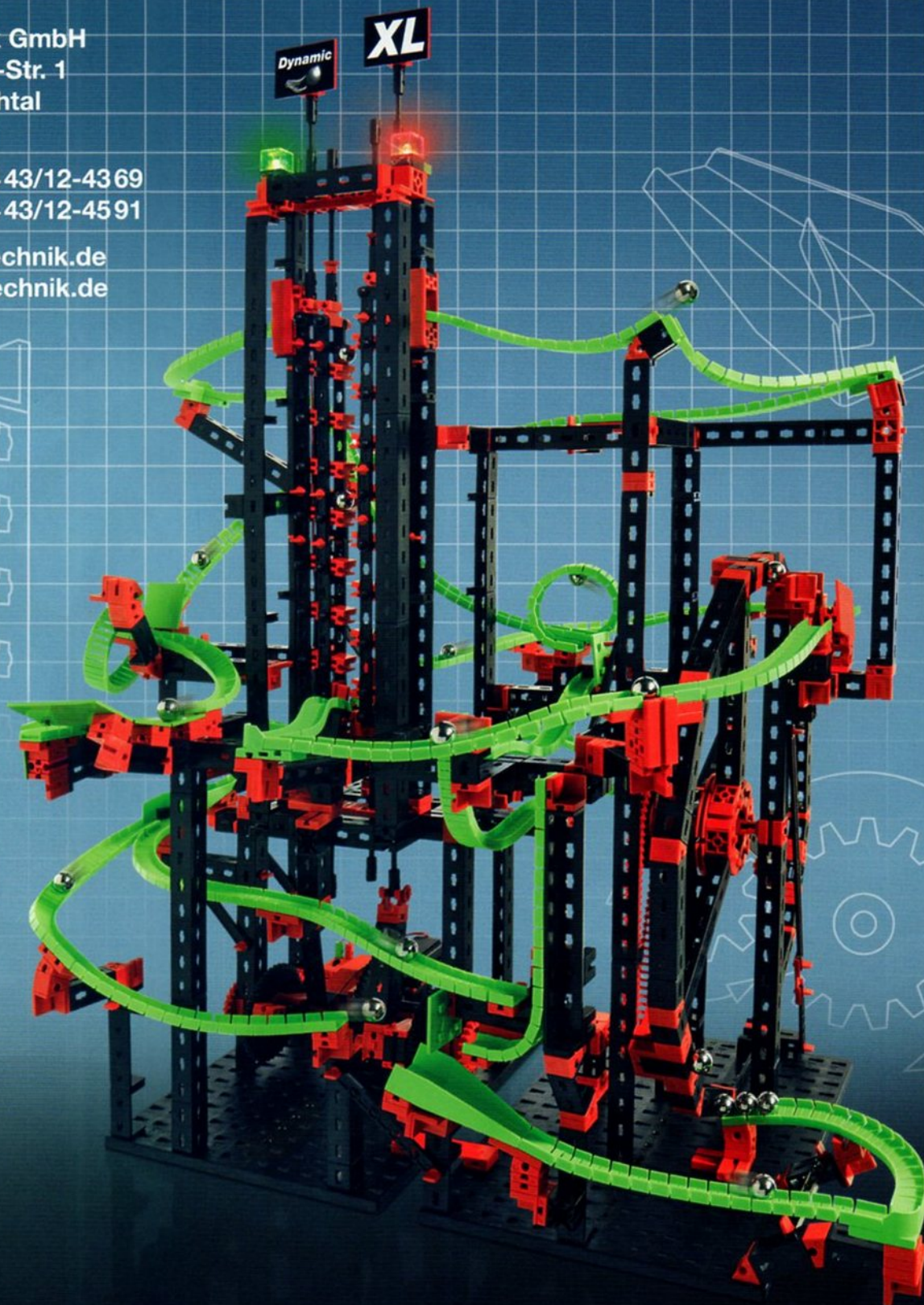
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152913 - Printed in Germany - Technische Änderungen vorbehalten - Subject to technical modifications

**Dynamic XL**

**8** MODELS