



fischertechnik 

ROBOTICS

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

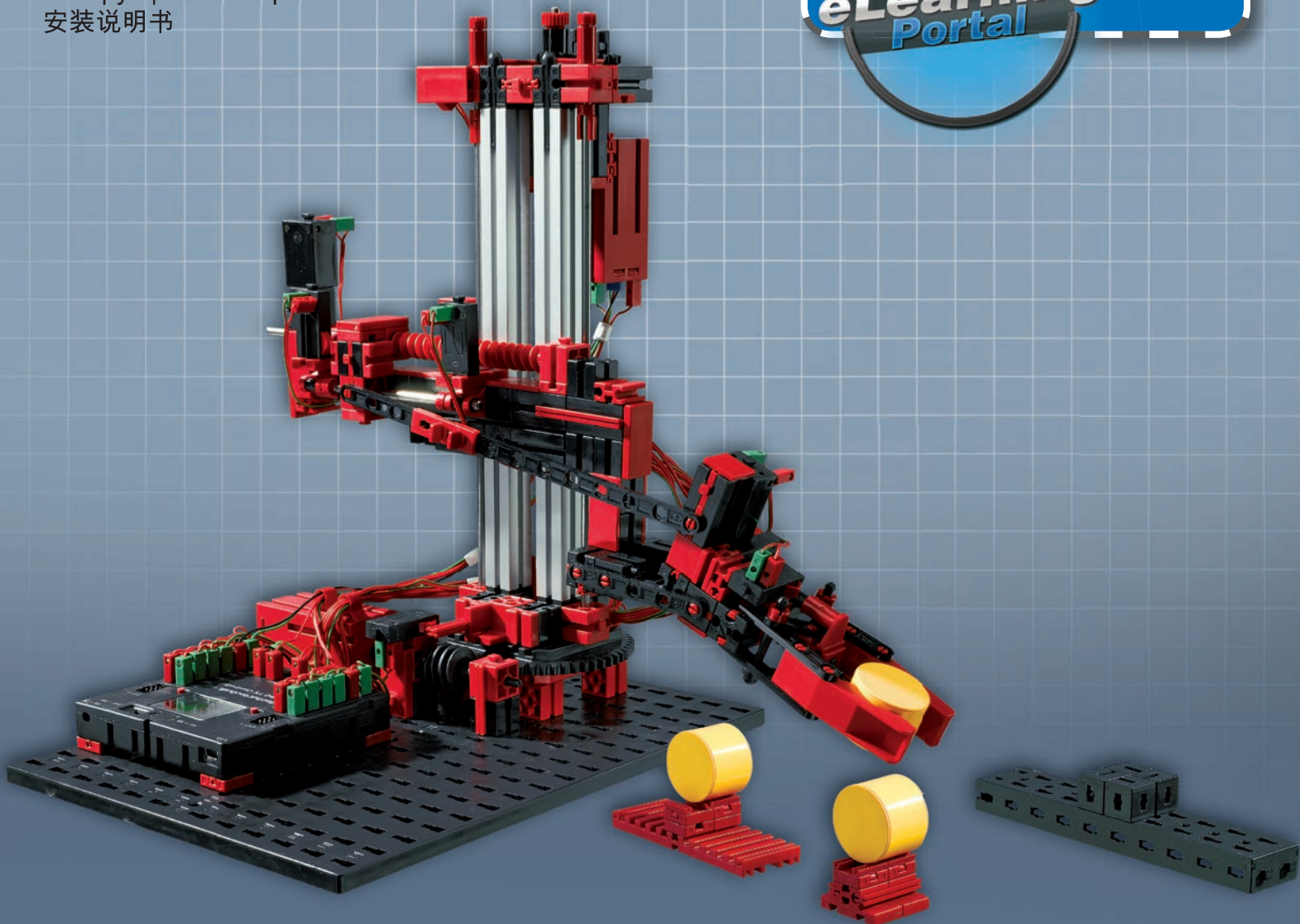
Didactic Information

www.fischertechnik-eLearning.com

free download



**eLearning
Portal**



TXT Automation Robots 4 MODELS



- Mit dem fischertechnik eLearning Portal geben wir Ihnen die Möglichkeit, noch mehr Hintergrundwissen zum Thema des Baukastens zu erhalten. Dabei stehen Ihnen didaktische Inhalte sowie technische Hintergrundinformationen, lehrreiche Begleitinformationen, Videos, Dokumentationen und vieles mehr zur Verfügung. Über **www.fischertechnik-elearning.com** gelangen Sie direkt zum eLearning Portal. Wir wünschen viel Spaß beim spielerischen Lernen und Entdecken mit fischertechnik!
- With the fischertechnik eLearning portal, we are giving you the opportunity to obtain even more background knowledge on the topic of the construction set. Didactic contents, technical background information, instructive accompanying information, videos, documentary films and much more are at your disposal. You can access the eLearning portal directly via **www.fischertechnik-elearning.com**. We hope that you have fun learning and discovering through play with fischertechnik!
- Avec le portail eLearning de fischertechnik, vous pouvez parfaire vos connaissances au sujet de la boîte de construction. Vous y trouverez des contenus didactiques et des informations techniques, d'autres informations complémentaires, des vidéos, de la documentation et bien plus encore. Cliquez sur **www.fischertechnik-elearning.com** pour accéder directement à notre portail. Nous vous souhaitons une découverte et un apprentissage pleins de plaisir avec fischertechnik !
- Met het fischertechnik eLearning portaal geven wij u de mogelijkheid, nog meer achtergrondkennis over het thema van het modulaire systeem te verkrijgen. Daarbij staan u didactieve inhoud alsmede technische achtergrondinformatie, educatieve begeleidende informatie, video's, documentaties en nog veel meer ter beschikking. Via **www.fischertechnik-elearning.com** komt u direct bij het eLearning portaal. Wij wensen veel plezier bij het spelenderwijs leren en ontdekken met fischertechnik!
- Con el portal de aprendizaje electrónico de fischertechnik le ofrecemos la oportunidad de obtener más conocimientos básicos sobre el tema de los módulos. De este modo, se pone a su disposición contenido didáctico, así como información básica técnica, información adicional instructiva, vídeos, documentos y muchas cosas más. A través de **www.fischertechnik-elearning.com** podrá acceder directamente al portal de aprendizaje electrónico. ¡Esperamos que se divierta aprendiendo y descubriendo jugando con fischertechnik!
- Com o portal de eLearning da fischertechnik damos lhe a possibilidade de obter ainda mais conhecimentos aprofundados sobre os kits de construção. Estão disponíveis conteúdos didáticos, informações técnicas de fundo, informações auxiliares úteis, vídeos, documentações e muito mais. Em **www.fischertechnik-elearning.com** pode aceder diretamente ao portal de eLearning. Esperamos que se divirta muito durante a aprendizagem e as descobertas com a fischertechnik!
- Con il portale eLearning di fischertechnik vi diamo la possibilità di accumulare maggiori informazioni di base sul tema delle scatole di montaggio. Vi troverete contenuti didattici e informazioni tecniche di background, informazioni accessorie molto istruttive, video, documenti e molto altro ancora. Tramite **www.fischertechnik-elearning.com** potete raggiungere direttamente il portale eLearning. Vi auguriamo buon divertimento nell'apprendere giocando e nella scoperta di fischertechnik!
- Обучающий Интернет-портал компании fischertechnik предлагает вам возможность получить больше базовых знаний по теме конструирования. В вашем распоряжении дидактические материалы, а также вводная техническая информация, поучительная сопроводительная информация, видеоматериалы, документация и многое другое. По ссылке **www.fischertechnik-elearning.com** вы попадаете прямо на обучающий Интернет-портал. Желаем вам приятно провести время в ходе игрового обучения и получения новых знаний с компанией fischertechnik!
- 通过 fischertechnik eLearning 电子学习门户网站，我们为您提供更多关于积木的背景知识。您可获得关于教学内容以及技术方面的背景知识、丰富的教学经验分享、视频、文档和其他实用内容。登陆 **www.fischertechnik-elearning.com** 访问我们的 elearning 门户网站。祝 fischertechnik 带给您更多学习和探索的乐趣！

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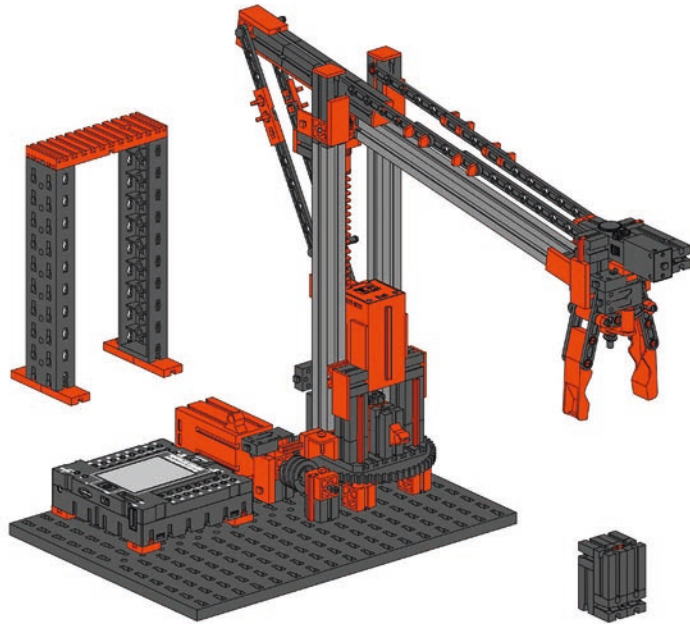
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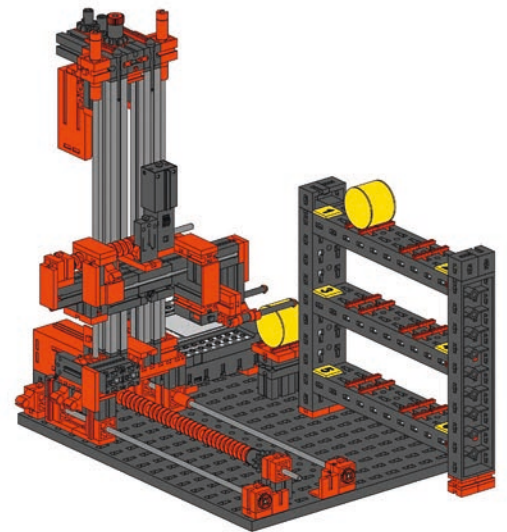
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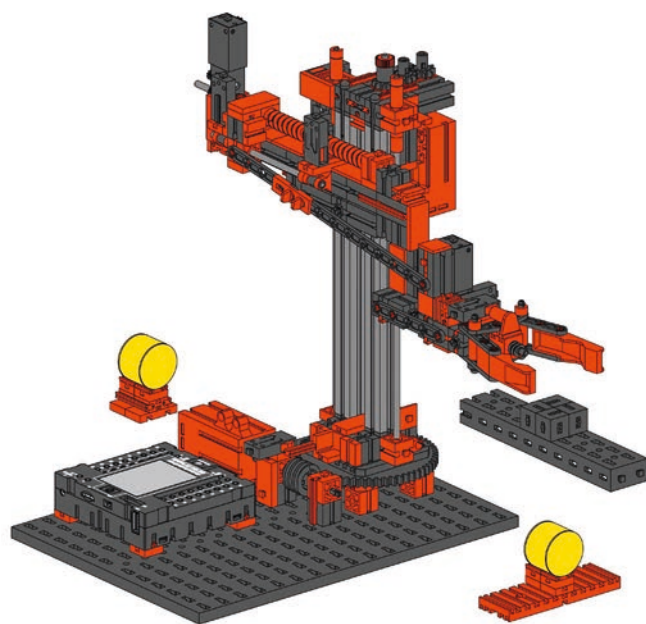
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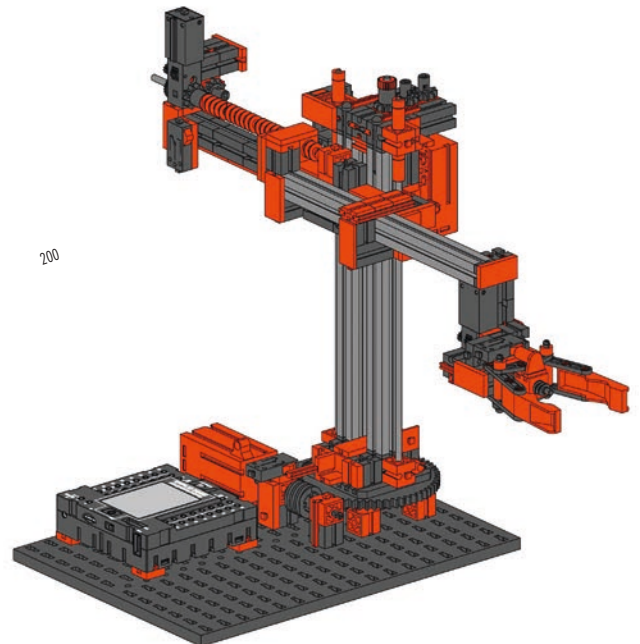
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Hochregal / High bay storage rack / Rayonnage haut /
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








3-Achs-Roboter / 3-axis robot / Robot à 3 axes /
3-assige robot / Robot de 3 ejes / Robò de 3 eixos /
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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

	10 497 6 x		31 391 1 x		32 882 12 x		35 977 1 x
	31 021 1 x		31 426 1 x		32 985 1 x		36 035 1 x
	31 023 2 x		31 436 5 x		35 031 1 x		36 323 12 x
	31 031 1 x		31 597 2 x		35 049 6 x		36 334 6 x
	31 032 1 x		31 668 2 x		35 061 1 x		36 443 1 x
	31 036 1 x		31 707 6 x		35 063 4 x		36 819 4 x
	31 058 1 x		31 848 12 x		35 072 1 x		36 913 6 x
	31 060 15 x		31 915 2 x		35 073 2 x		36 914 4 x
	31 061 8 x		31 982 74 x		35 112 2 x		36 922 6 x
	31 063 1 x		31 983 6 x		35 113 1 x		36 952 3 x
	31 078 2 x		32 064 21 x		35 409 3 x		37 157 2 x
	31 082 1 x		32 330 13 x		35 668 1 x		37 237 25 x
	31 226 3 x		32 854 5 x		35 697 1 x		37 468 18 x
	31 330 5 x		32 859 1 x		35 945 3 x		37 679 12 x
	31 336 22 x		32 870 4 x		35 969 8 x		37 783 6 x
	31 337 26 x		32 879 18 x		35 973 1 x		37 858 3 x
	31 390 1 x		32 881 19 x		35 975 2 x		37 925 4 x

Einzelteilübersicht
Spare parts list
Liste des pièces détachées

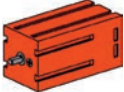

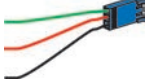


	37 926 11 x
	38 216 2 x
	38 236 6 x
	38 240 7 x
	38 241 6 x

Onderdelenoverzicht
Lista da piezas
Resumo de peça individual

	38 242 1 x
	38 246 6 x
	38 416 2 x
	38 428 3 x
	38 464 1 x

	38 543 2 x
	38 546 4 x
	107 355 3 x
	107 436 6 x
	113 853 2 x

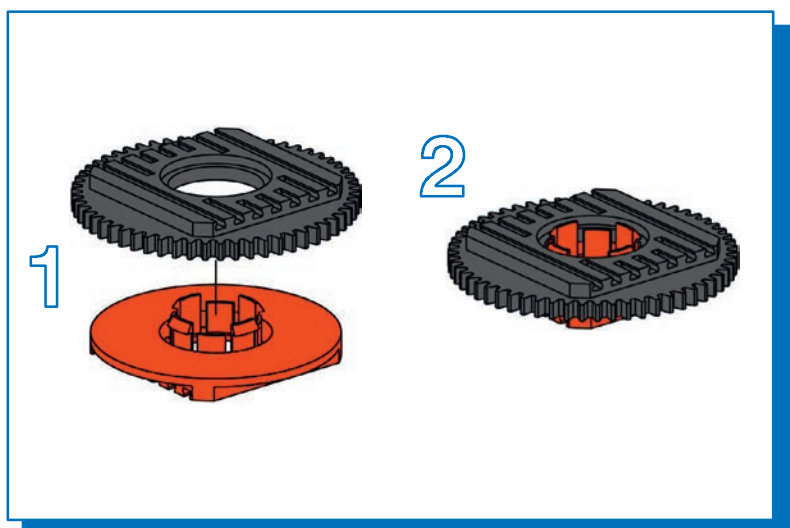
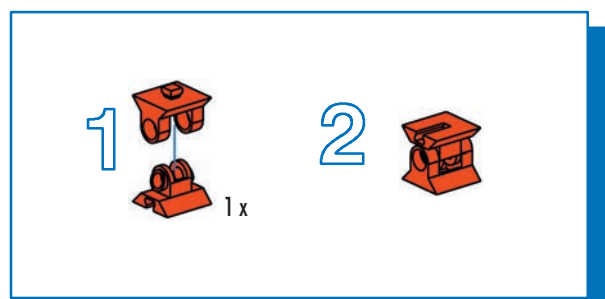
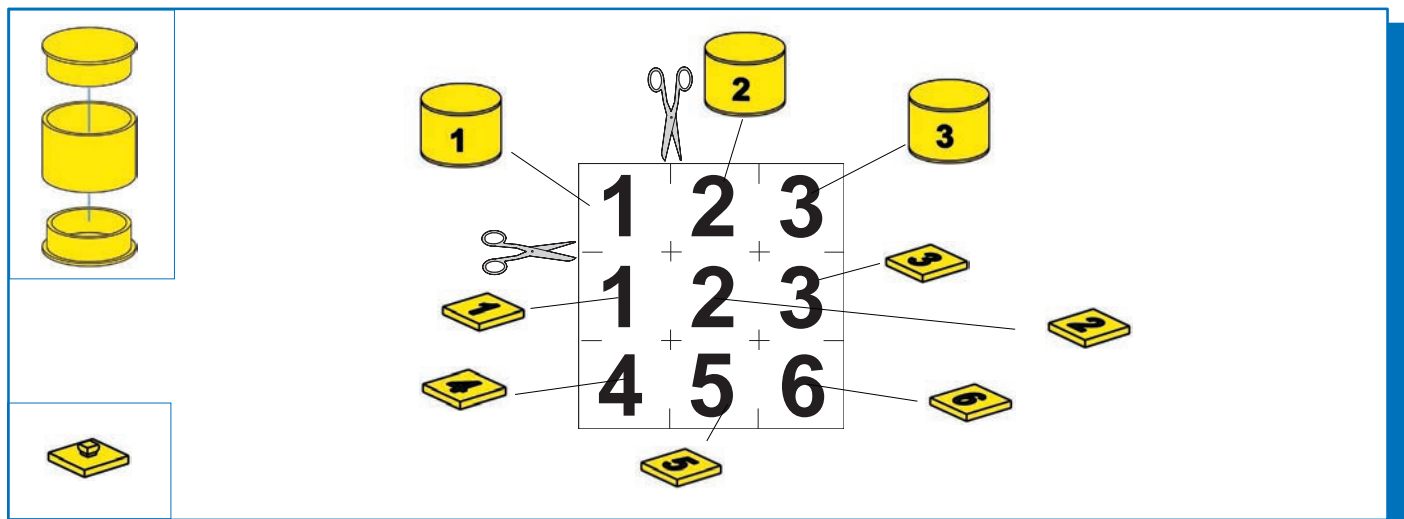
Singoli componenti
Перечень деталей
零件概览

	135 484 2 x
	137 096 2 x
	137 125 2 x
	143 289 2 x
	143 389 1 x

Montagetipps
Tips for assembly
Tuyaux pour le montage

Montagetipps
Consejos para el montaje
"Dicas" para montagem

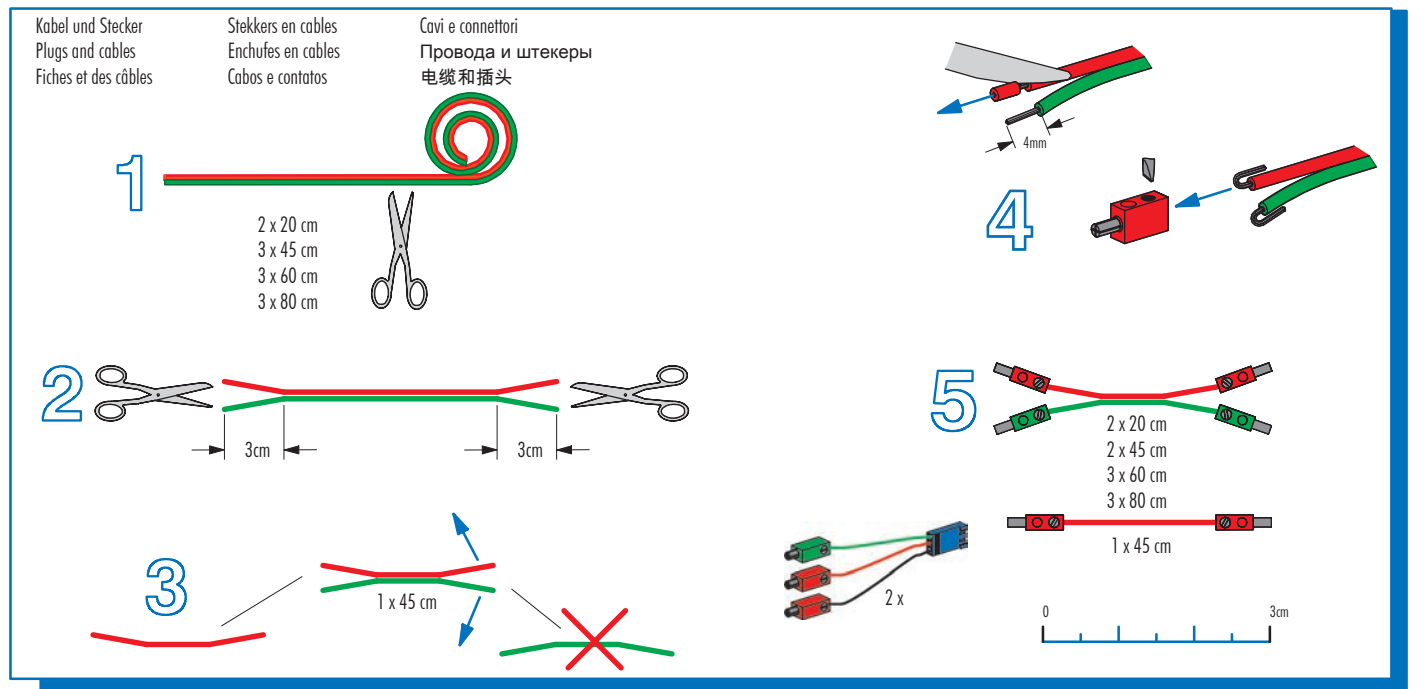
Consigli per il montaggio
Советы по сборке
装配建议



Montagetipps
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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

- Achtung: Haare und Schnüre können sich in dem Antriebsmechanismus verfangen!
- Warning: Hair and cords can get caught in the drive mechanism!
- Attention : les cheveux et les lacets peuvent se coincer dans le mécanisme d'entraînement !
- Attentie: Haar en koorden kunnen in het aandrijfmechanisme vast komen te zitten
- Atención: iel cabello y los cordones podrían enredarse en el mecanismo de accionamiento!

- Atencão: fios de cabelos e fiapos podem prender-se ao mecanismo de acionamento!
- Attenzione: capelli e fili/cordicelle possono rimanere intrappolati nel meccanismo di azionamento!
- Внимание: волосы и шнуры могут быть захвачены приводным механизмом!
- 注意：毛发和鞋带可能会卷入驱动机构！

- 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!
- Atencão! Perigo de ferimentos em peças componentes com cantos vivos e pontas obrigatórias para o funcionamento !
- Attenzione! Pericolo di lesioni dovute a componenti con spigoli vivi e punte per motivi funzionali!
- Будьте осторожны! Об острые края деталей и и наконечники можно порезаться!
- 注意！因功能需要而带有锋利的棱边和尖角的部件可能会带来受伤危险！

- Alle Einzelteile, insbesondere bewegliche Teile sind falls notwendig zu warten und zu reinigen.
- All components, especially moving parts, should be maintained and cleaned as necessary.
- Toutes les pièces détachées et en particulier les pièces mobiles, sont, si nécessaire, à entretenir et à nettoyer.
- Alle onderdelen, vooral de bewegende delen, kunnen, indien noodzakelijk, onderhouden en gereinigd worden.
- Es necesario limpiar y mantener en buen estado todas las diferentes piezas - especialmente las piezas móviles.

- Caso necessário, todas as peças individuais, especialmente peças móveis, tem que ser submetidas à manutenção e ser limpadas.
- Se necessario, tutti i singoli componenti, soprattutto le parti mobili, si devono eventualmente sottoporre a manutenzione e pulizia.
- Все детали, особенно подвижные, требуют ухода и чистки.
- 必要时应保养和清洁所有零件，尤指运动部件。

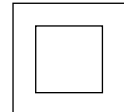
Sicherheitshinweise Safety Information Consignes de sécurité

Veiligheidsrichtlijnen Indicaciones de seguridad Observações sobre segurança

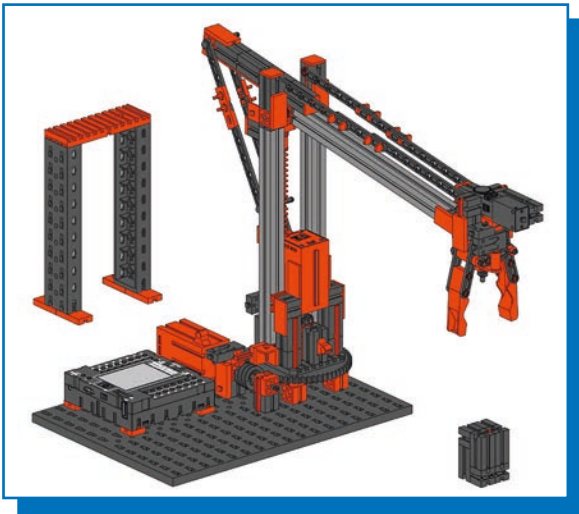
Informazioni per la sicurezza Указания по технике безопасности 安全指南

- Die Anschlussklemmen dürfen nicht kurzgeschlossen werden.
 - Drähte nicht in Steckdose einführen!
 - Ladegerät regelmäßig auf Schäden überprüfen. Bei einem Schaden darf das Ladegerät bis zur vollständigen Reparatur nicht mehr verwendet werden.
 - Alle elektrischen Bauteile (Motoren, Lampen, ROBO TX Controller) dürfen ausschließlich an Stromversorgungen von fischertechnik angeschlossen werden.
- Do not short circuit the connecting terminals!
 - 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.
 - No electrical components (motors, lamps, ROBO TX Controller) are to be connected to any other power supply than that provided by fischertechnik.
- Il est interdit de court-circuiter les bornes de raccordement.
 - 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
 - Tous les composants électriques (moteurs, lampes, ROBO TX Controller) ne doivent être branchés aux alimentations électriques uniquement que par la société Fischertechnik.
- De aansluitklemmen mogen niet worden kortgesloten.
 - Geen draden in de contactdoos steken!
 - Laadtoestel regelmatig controleren op schade. Bij schade mag het laadtoestel niet meer gebruikt worden tot het volledig hersteld is.
 - Alle elektrische componenten (motoren, lampen, ROBO TX Controller) mogen uitsluitend op stroomvoorzieningen van fischertechnik worden aangesloten.
- Los bornes de conexión no pueden ser puestos en cortocircuito.
 - 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.
 - Todos los componentes eléctricos (motores, luces, ROBO TX Controller) deben conectarse a la alimentación de corriente de la técnica Fischer exclusivamente.
- Os terminais de conexão não devem ser curto-circuitados.
 - 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.
 - Todas as peças componentes elétricas (motores, lâmpadas, ROBO TX Controller) só podem ser exclusivamente conectadas em abastecimentos de corrente da Fischertechnik.
- I morsetti di allacciamento non devono essere cortocircuitati.
 - 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.
 - Tutti i componenti elettrici (motori, lampadine, ROBO TX Controller) devono essere collegati esclusivamente ad alimentatori fischertechnik.
- Не замыкайте накоротко соединительные клеммы.
 - 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.
 - Все электрические детали (электромоторы, лампочки.) можно подключать только к источникам электропитания от fischertechnik.
- 接线柱不允许被短路。
 - 禁止将金属丝插入插座！
 - 经常检查充电器是否有损坏情况。如果充电器有损，直到完全修好为止不可以再使用。只允许将所有电气部件（传感器，电机）与慧鱼技术产品的电源装置相连接

- Die Modelle dürfen nur an Geräte der Schutzklasse II angeschlossen werden, die mit dem entsprechenden Symbol gekennzeichnet sind.
- Ensure that the models are connected only to equipment rated in protection category II and marked with the appropriate symbol.
- Le raccordement des maquettes est uniquement permis à des appareils dotés de la catégorie de protection II qui portent le pictogramme respectif.
- De modellen mogen alleen op apparaten uit beschermingsklasse II worden aangesloten, die zijn voorzien van het bijbehorende symbol.
- Los modelos sólo pueden ser conectados a aparatos de clase de protección II que están identificados con el símbolo correspondiente.
- Os modelos somente devem ser conectados nos aparelhos da classe de proteção II, que são identificados com o símbolo correspondente.
- I modelli devono essere collegati solo ad apparecchi della classe di protezione II, contrassegnati con il relativo simbolo.
- Модели можно подключать только к приборам класса защиты II, обозначенным соответствующим знаком.
- 这些模型只允许连接到具有防护等级 II 的装置上，这类装置被用相应的符号进行了标识。



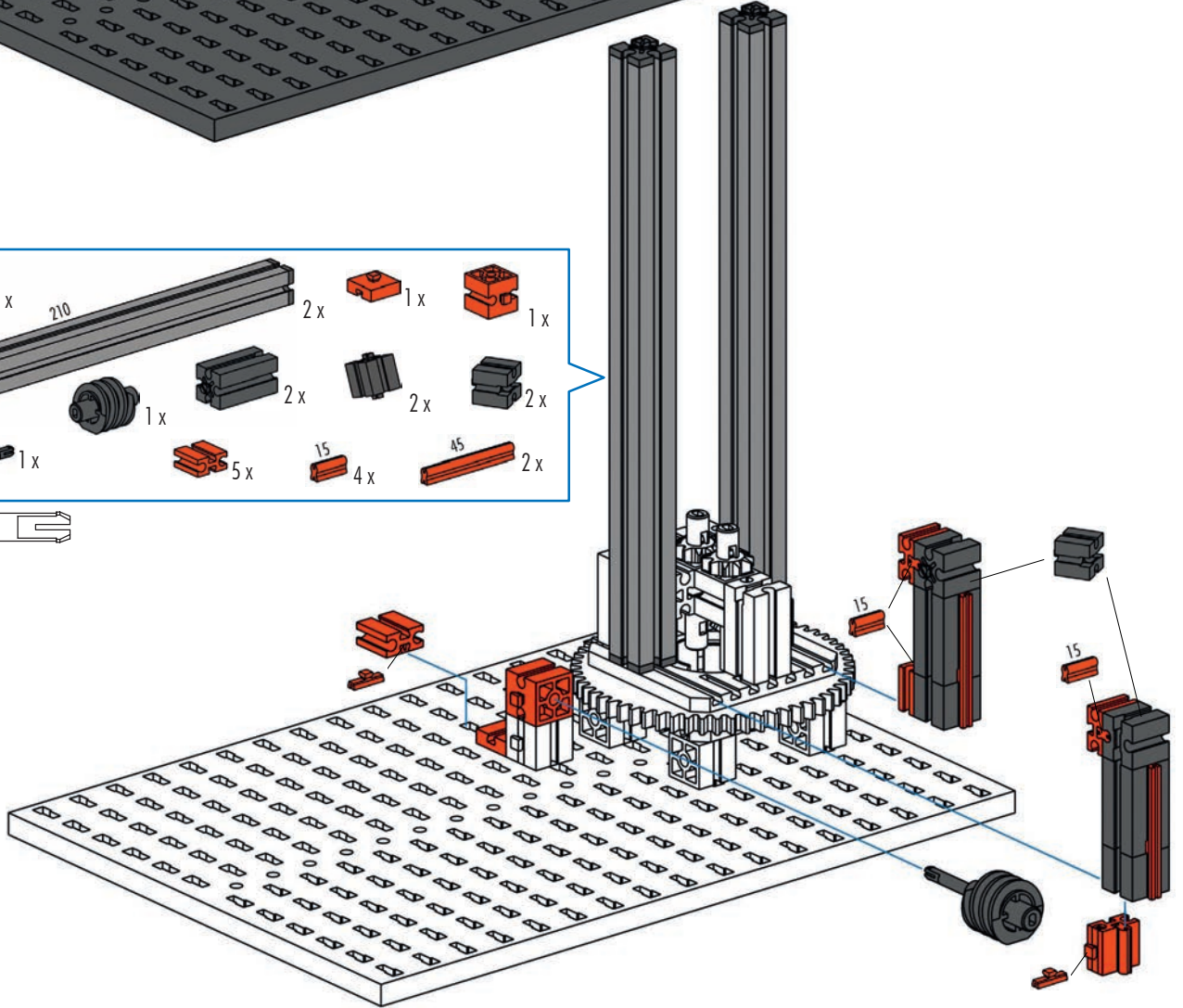
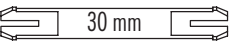
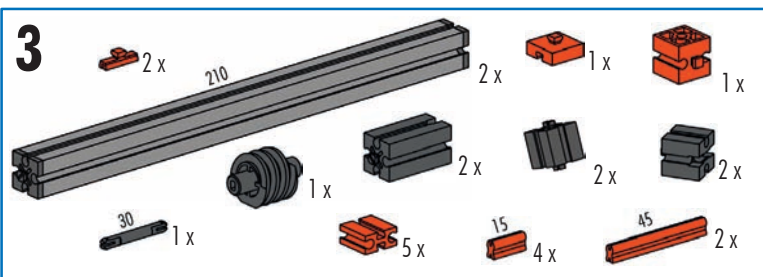
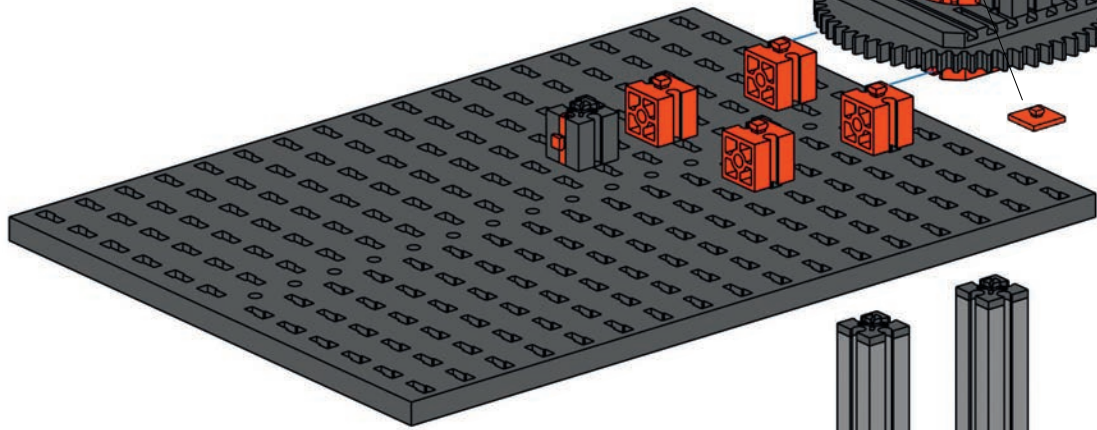
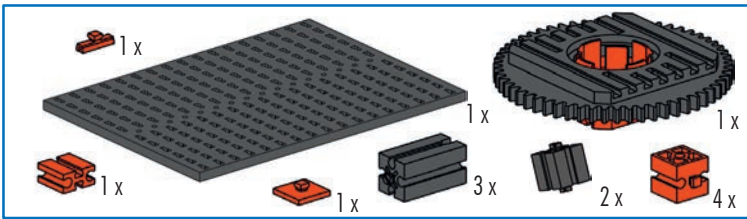
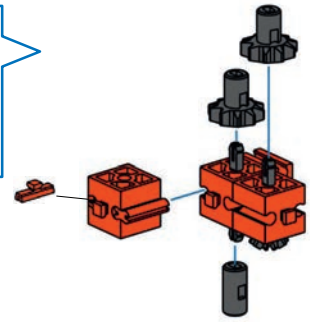
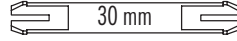
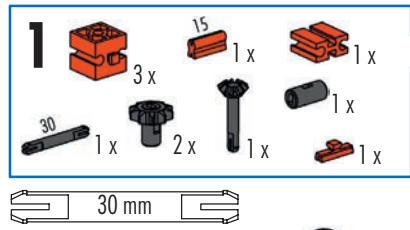
- Das Spielzeug darf nur mit einer der folgenden fischertechnik Energiequellen benutzt werden: Power Set oder Art.-Nr.: 35537 Accu Pack 8,4V.
- The toy may only be used with one of the following fischertechnik energy sources: Power Set or Art No.: 35537 Accu Pack 8.4V.
- L'utilisation de ce jouet n'est permis qu'avec l'une des sources d'énergie fischertechnik suivantes: Power Set ou Art. n° : 35537 pack d'accumulateurs 8,4 volts.
- Het speelgoed mag uitsluitend met een van de volgende fischertechnik energiebronnen worden gebruikt: art.nr.: Power Set of art.nr.: 35537 accupack 8,4V
- El juguete se debe utilizar únicamente con una de las siguientes fuentes de energía: Power Set o Art. No. 35537 paquete acumulador de 8,4V.
- O brinquedo somente pode ser utilizado com uma das seguintes fontes de energia da fischertechnik: Power Set ou art. n°: 35537 Bloco de bateria de 8,4V.
- Questo giocattolo può essere utilizzato solo con le seguenti fonti di energia fischertechnik: Power Set oppure cod. prod.: 35537 confezione batterie da 8,4V.
- Игрушку можно использовать только с одним из следующих источников энергии от fischertechnik: Power Set или арт. №: 35537 Accu Pack 8,4B
- 该玩具只允许使用如下的慧鱼 (fischertechnik) 能量源：Power Set，或者商品号：35537，8.4V 电池套件 (Accu Pack)



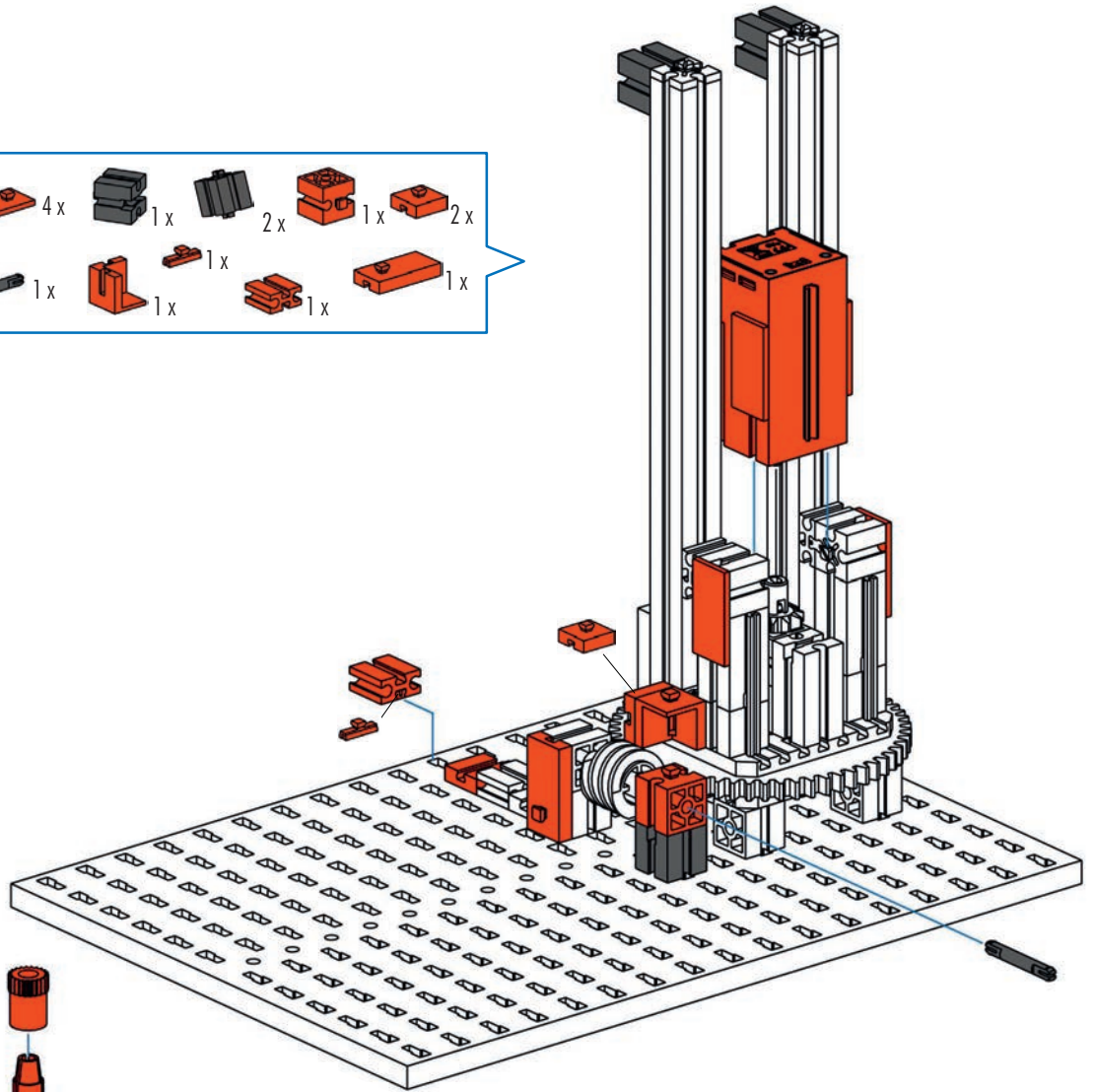
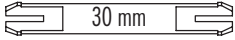
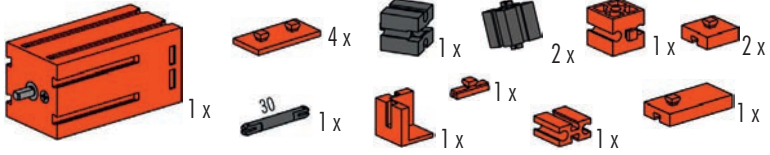
Greifroboter
Gripper robot
Robot à grappin

Grijprobot
Robot manipulador
Robò de garras

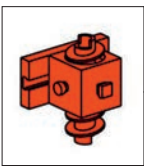
Robot con braccio
Робот-манипулятор
抓件机器人



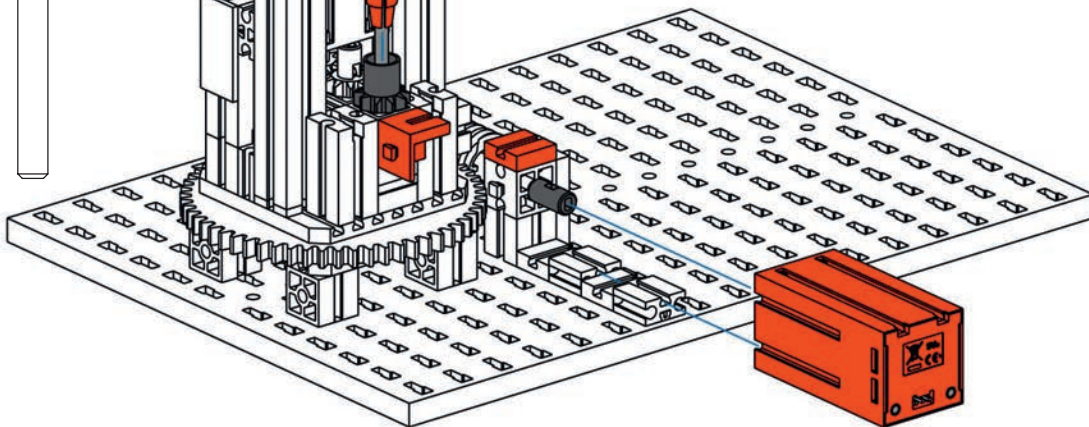
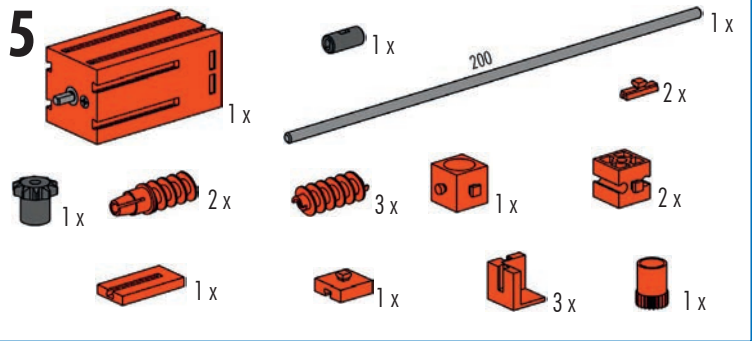
4

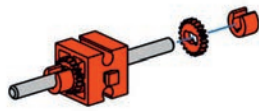


200 mm



5



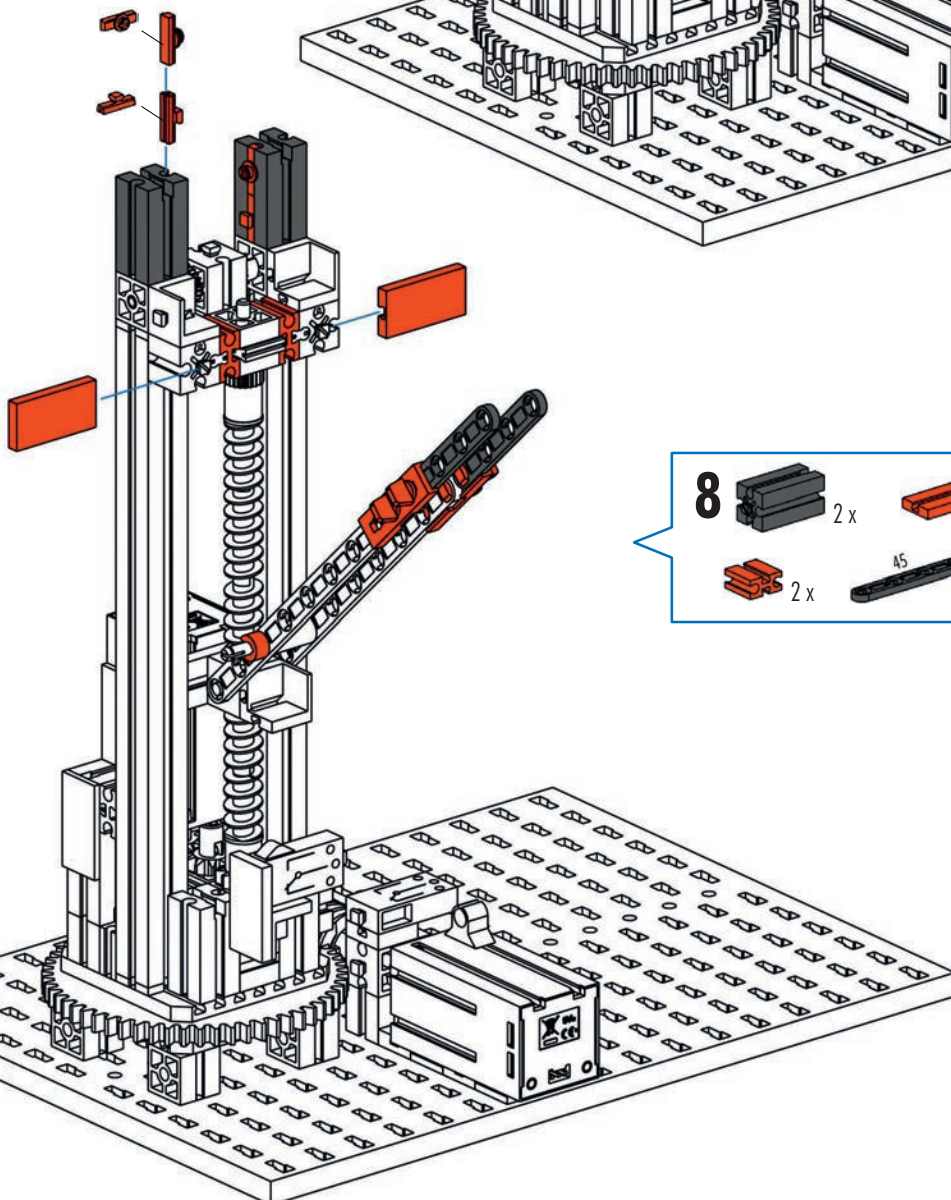
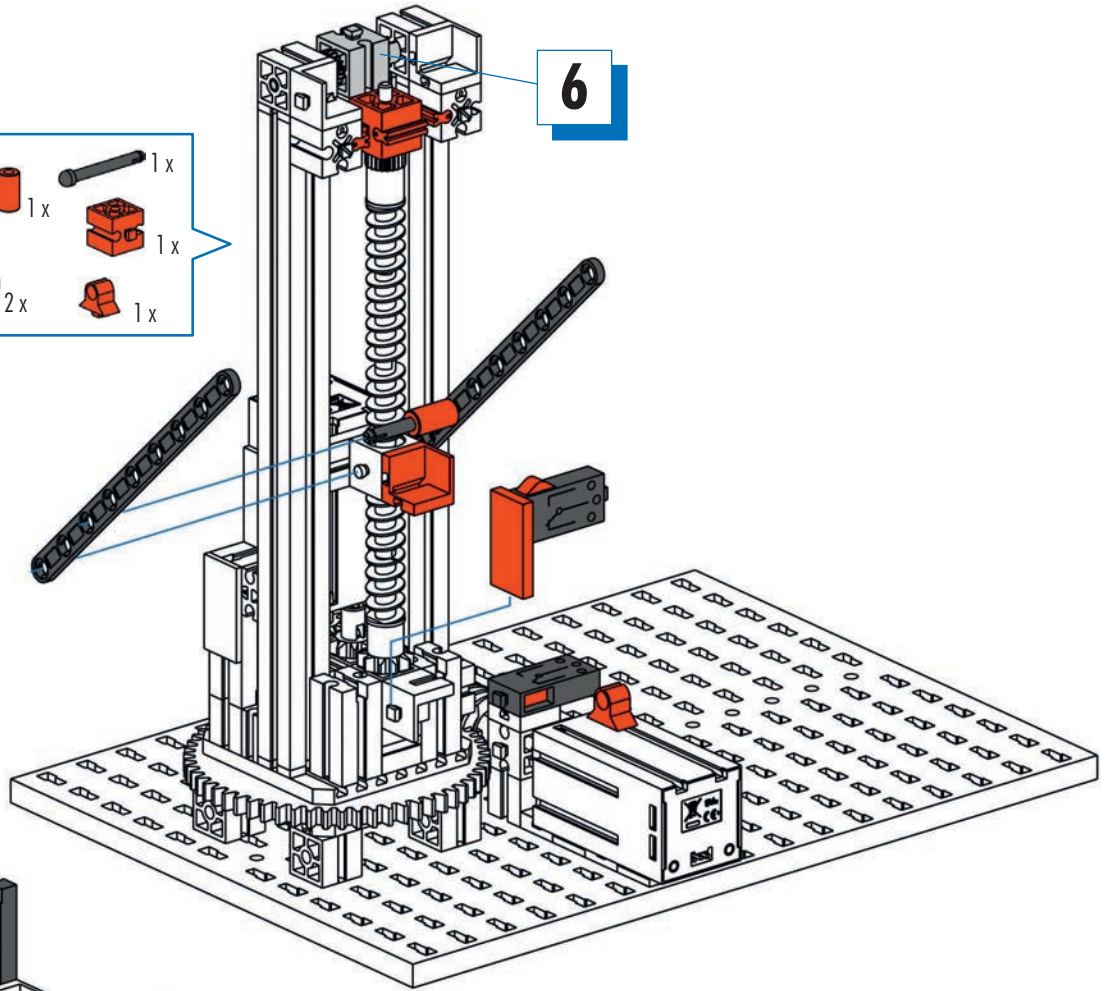


6 1 x 1 x 2 x 2 x

60 mm

7 2 x 1 x 1 x 1 x 1 x

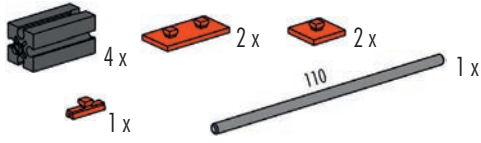
3 x 1 x 2 x 1 x



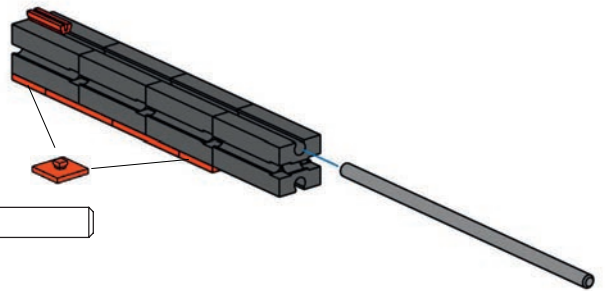
8 2 x 2 x 2 x 1 x

2 x 2 x 2 x 2 x 4 x

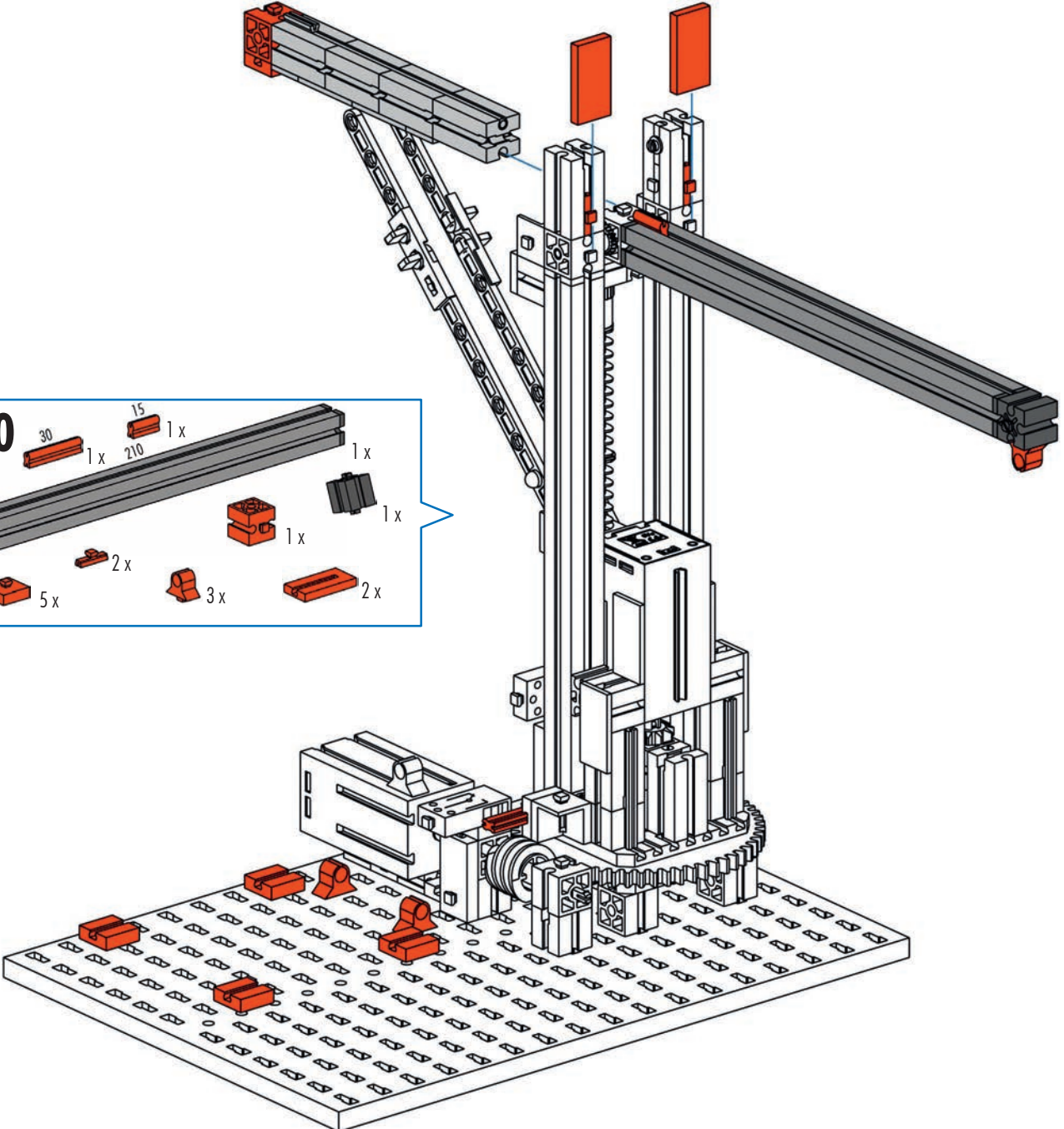
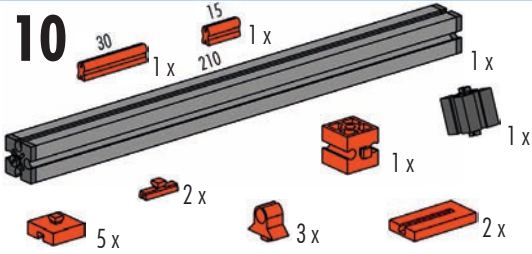
9



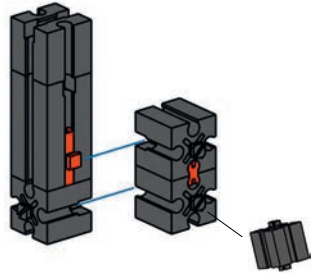
110 mm

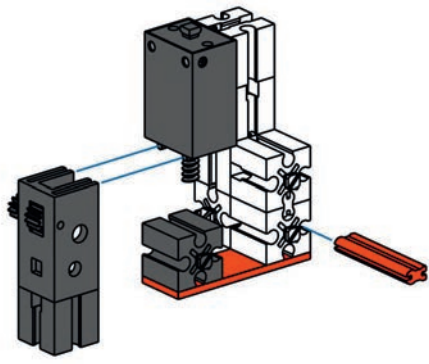


10



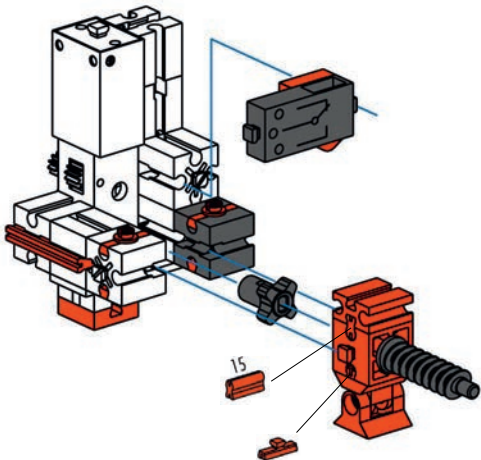
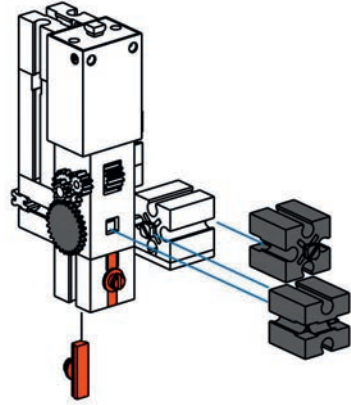
11





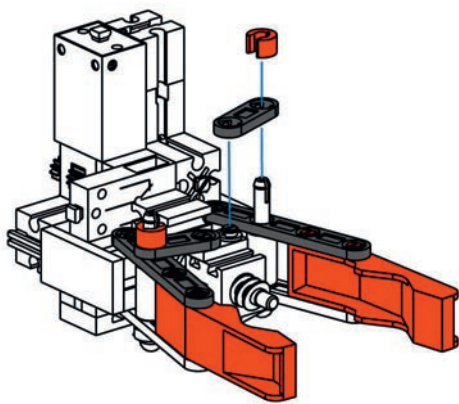
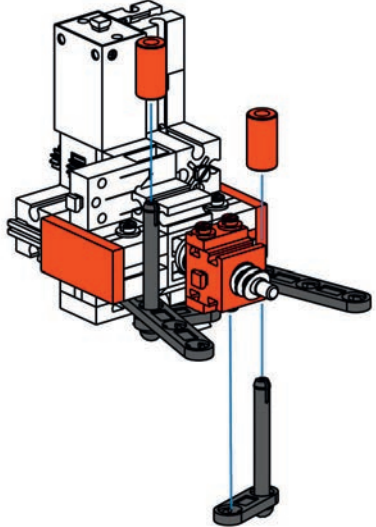
- 12**
- 1x [Grey Motor]
 - 1x [Grey Gear]
 - 1x [Grey Connector]
 - 1x [Grey Pin]
 - 1x [Red Beam 1x]
 - 1x [Red Beam 30]

- 13**
- 2x [Grey Connector]
 - 1x [Grey Pin]
 - 2x [Red Pin]



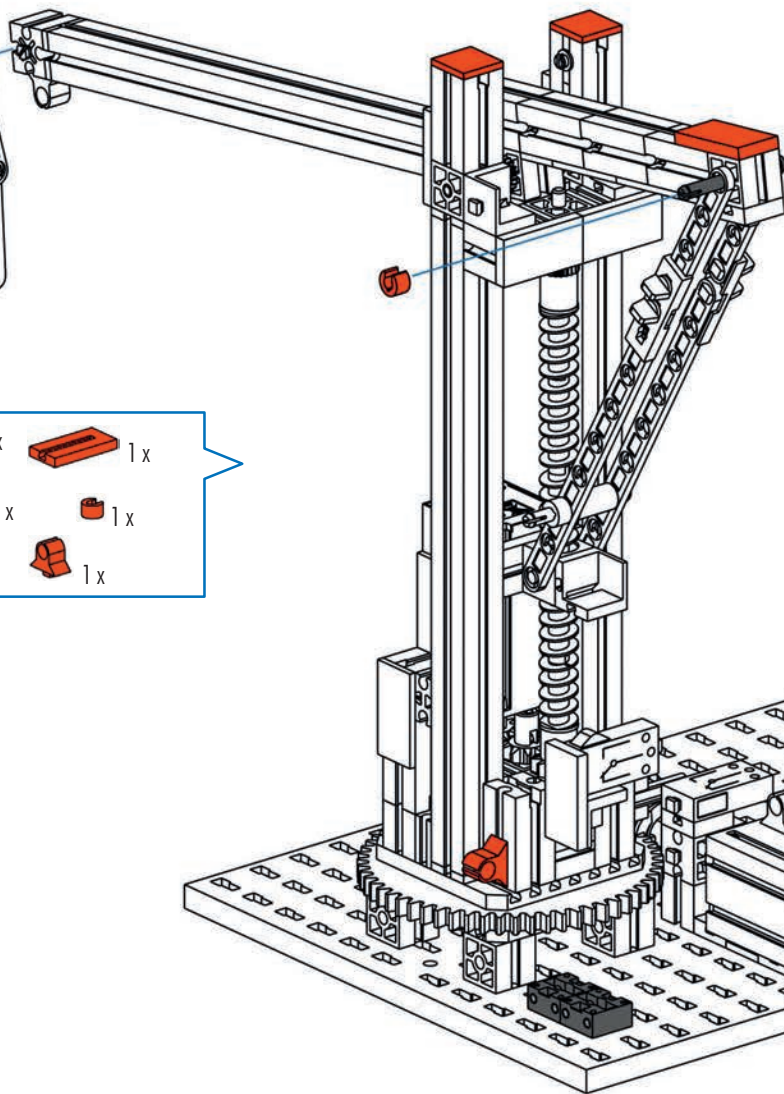
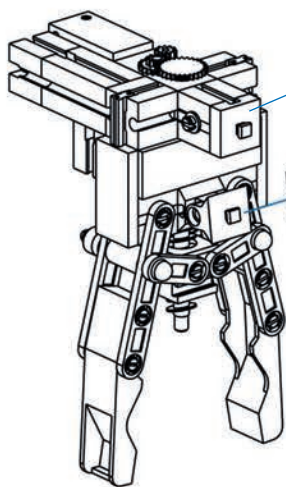
- 14**
- 1x [Grey Connector]
 - 1x [Grey Motor Housing]
 - 2x [Red Pin]
 - 1x [Red Connector]
 - 1x [Red Connector]
 - 1x [Red Connector]
 - 4x [Red Pin]
 - 1x [Red Beam 15]
 - 1x [Red Beam 30]
 - 1x [Red Pin]
 - 1x [Grey Pin]
 - 1x [Grey Axle]

- 15**
- 1x [Red Connector]
 - 2x [Red Pin]
 - 2x [Red Beam 2x]
 - 2x [Red Pin]
 - 2x [Red Beam 15]
 - 2x [Grey Beam 45]
 - 2x [Grey Pin]

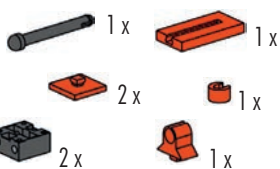


- 16**
- 2x [Red Beam 2x]
 - 2x [Red Beam 15]
 - 2x [Grey Beam 45]
 - 2x [Red Pin]

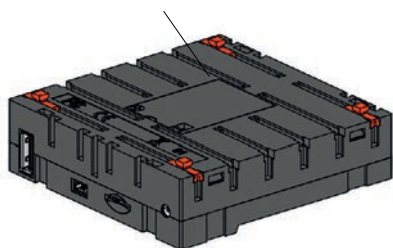
16



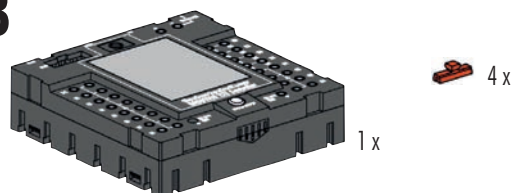
17

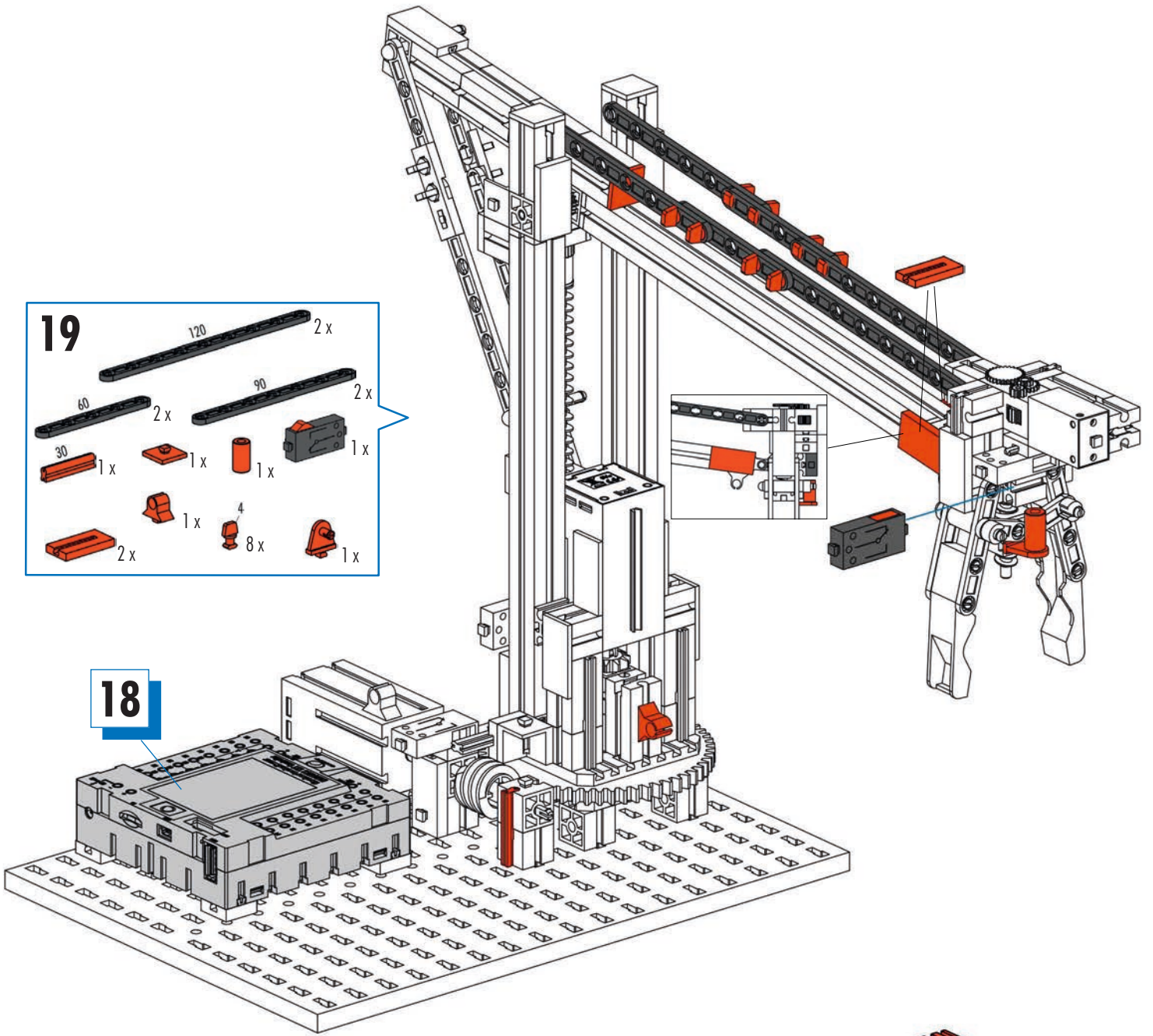


- ROBOTICS TXT Controller (Art.-Nr. 522429) nicht im Baukasten enthalten
- ROBOTICS TXT Controller (Art.-Nr. 522429) not included in the modular kit
- ROBOTICS TXT Controller (Art.-Nr. 522429) n'est pas contenue dans le kit
- ROBOTICS TXT Controller (Art.-Nr. 522429) niet in de bouwdoos opgenomen
- ROBOTICS TXT Controller (Art.-Nr. 522429) no está incluido en el conjunto
- ROBOTICS TXT Controller (Art.-Nr. 522429) não contido no sistema de construção por blocos
- ROBOTICS TXT Controller (Art.-Nr. 522429) non incluso nella scatola di montaggio
- ROBOTICS TXT Controller (Art.-Nr. 522429) не входит в комплект конструктора
- ROBOTICS TXT Controller (Art.-Nr. 522429) 不包含在组件



18

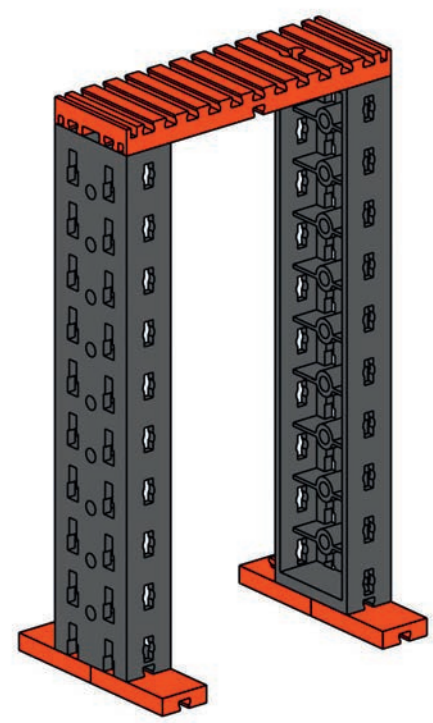




- 19**
- 120 2x
 - 60 2x
 - 90 2x
 - 30 1x
 - 2 1x
 - pin 1x
 - bush 1x
 - motor 1x
 - pin 1x
 - bush 1x
 - 2 2x
 - pin 1x
 - pins 8x
 - bush 1x

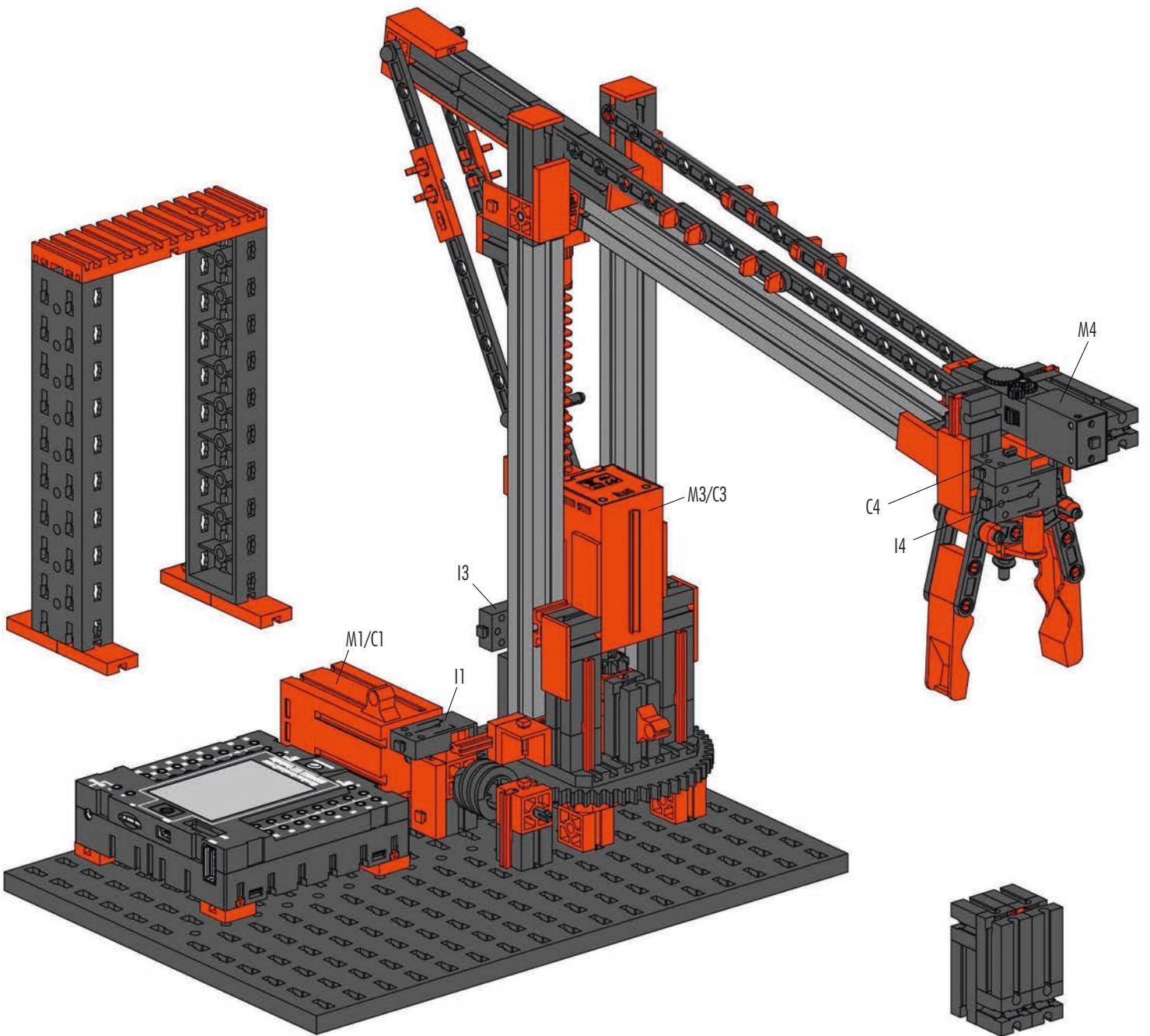
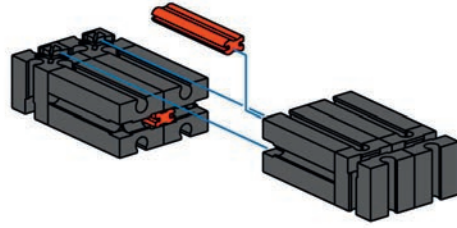
18

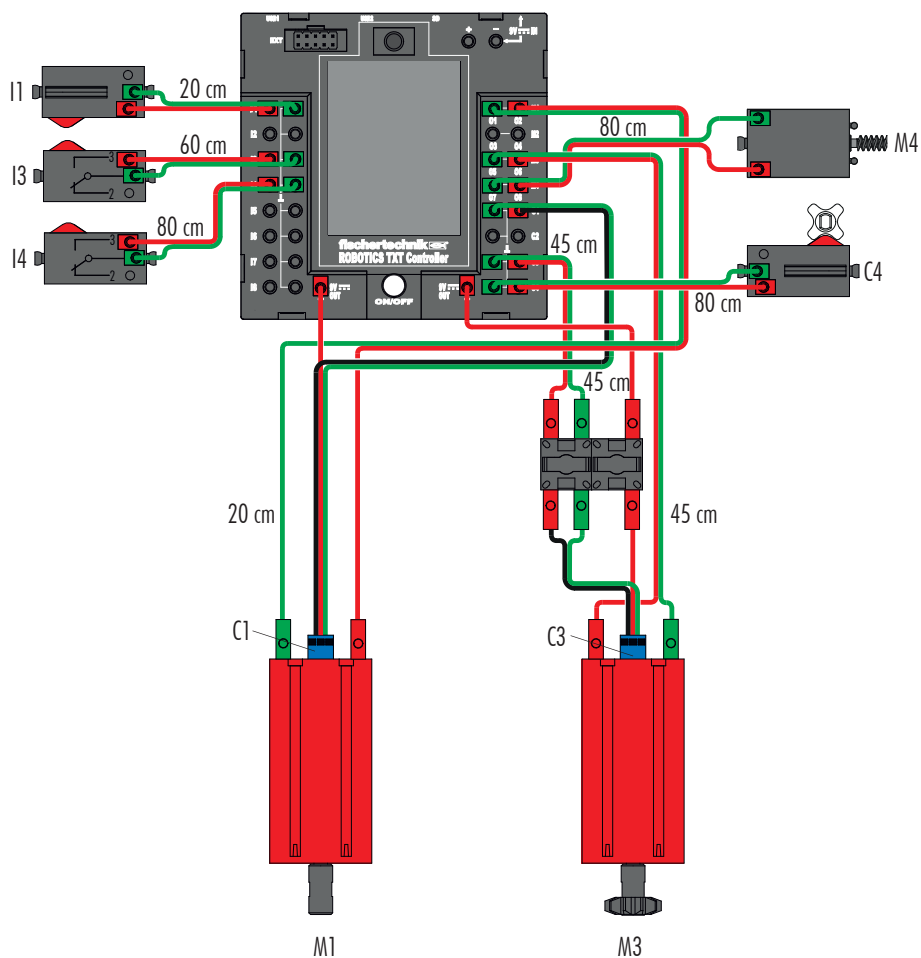
- 20**
- 2x
 - 4x
 - 1x



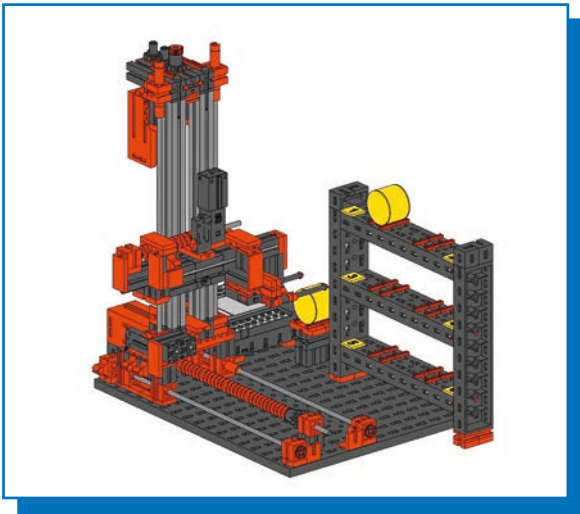
21

4x 4x 30 2x





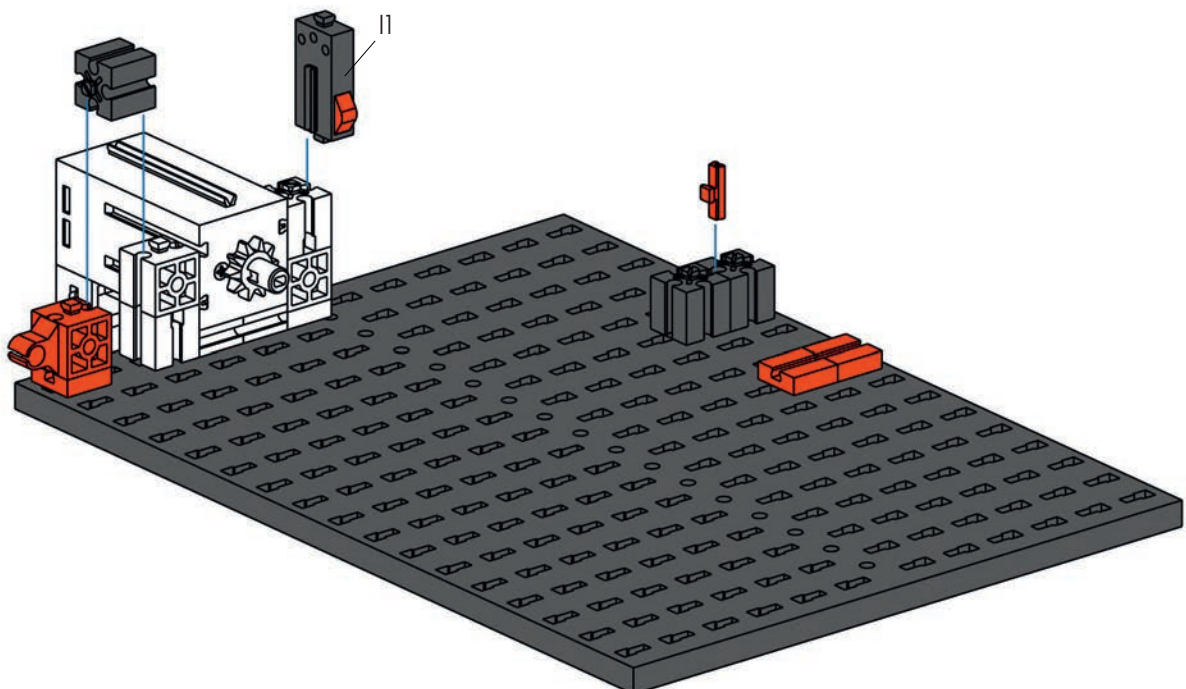
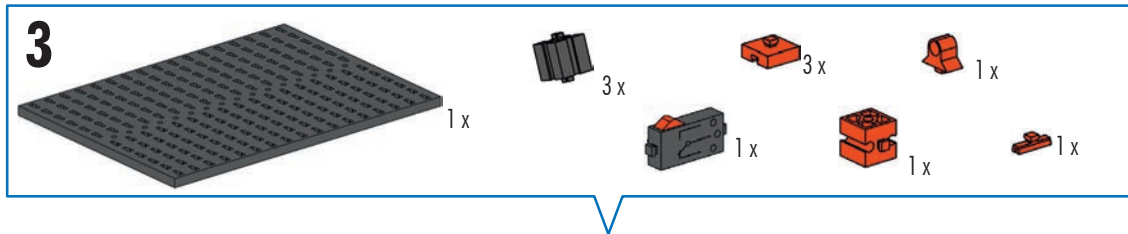
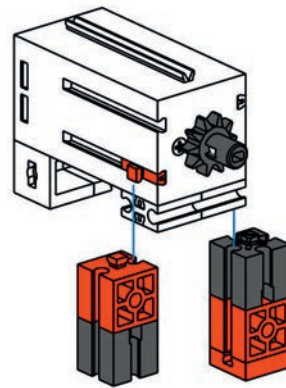
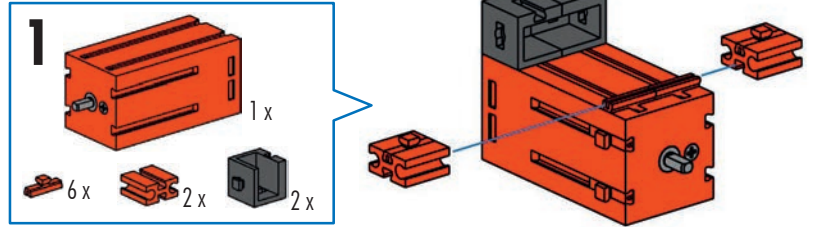
- Informationen zur Programmierung des Modells: Siehe didaktisches Begleitmaterial.
- Information on programming model: See related instructional material.
- Informations concernant la programmation de la maquette : voir le matériel d'accompagnement didactique.
- Informatie over de programmering van het model: Zie het didactisch begeleidend materiaal.
- Informaciones sobre la programación del modelo: Véase material didáctico.
- Informações sobre a programação do modelo: ver o material didático de acompanhamento.
- Informazioni sulla programmazione del modello: vedi materiale didattico.
- Информация о программировании модели: смотрите обучающий сопроводительный материал на CD.
- 有关该模型编程的信息：见 CD 光盘上的指导性说明资料。

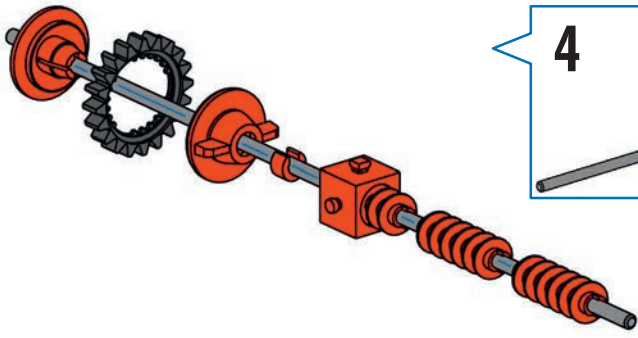


Hochregal
High bay storage rack
Rayonnage haut

Stellingmagazijn
Almacén elevado
Depósito de prateleira
alta

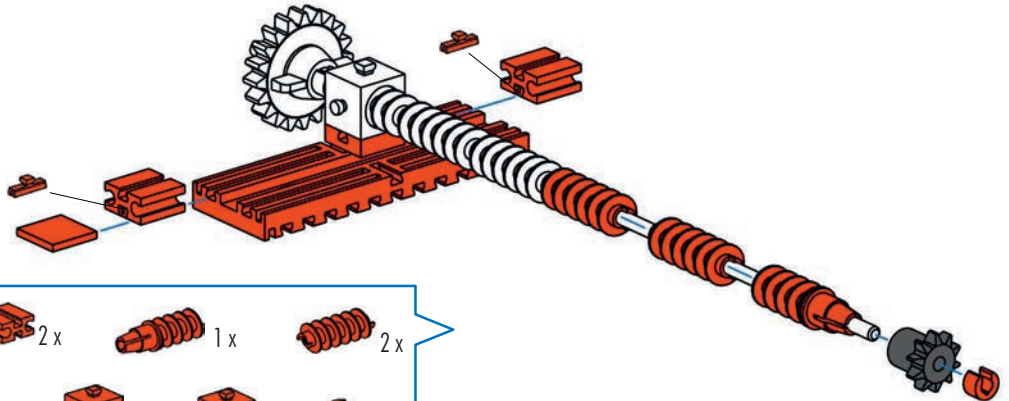
Magazzino alto
 Высотный
 стеллажный склад
 高货架仓库





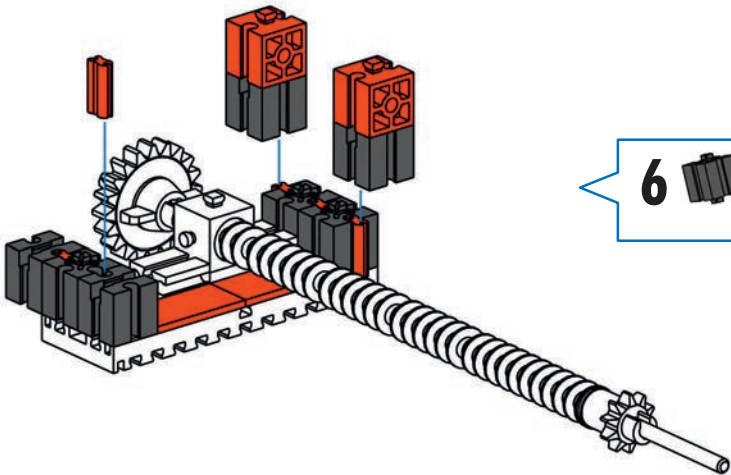
4

- 1 x [Red bush]
- 1 x [Grey axle, 260]
- 1 x [Red gear]
- 1 x [Red axle connector]
- 3 x [Red spring]
- 1 x [Red axle connector]
- 1 x [Red bush]



5

- 1 x [Red Technic beam, 11 holes]
- 2 x [Red Technic bush]
- 1 x [Red spring]
- 2 x [Red spring]
- 2 x [Red Technic bush]
- 1 x [Grey axle connector]
- 1 x [Red Technic bush]
- 1 x [Red Technic bush]
- 1 x [Red Technic bush]

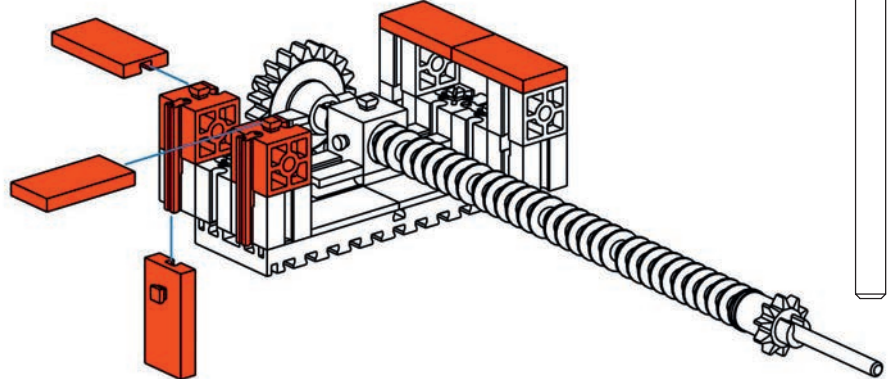


6

- 3 x [Grey Technic bush]
- 4 x [Grey Technic bush]
- 2 x [Red Technic bush]
- 2 x [Red Technic bush]
- 5 x [Red Technic bush, 15 holes]

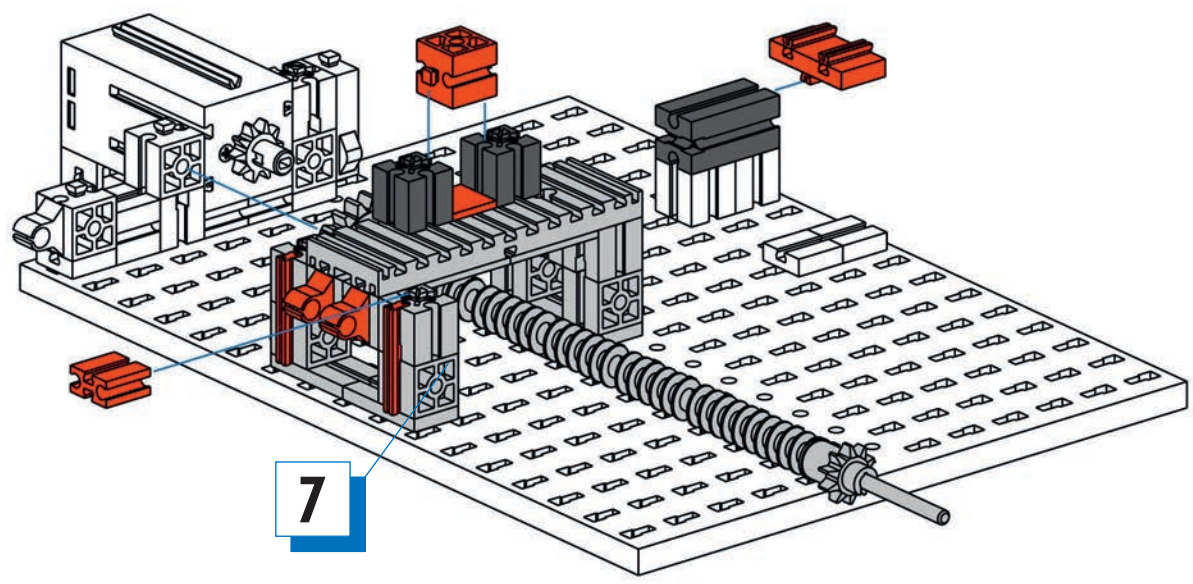
7

- 2 x [Red Technic bush]
- 4 x [Red Technic bush]
- 2 x [Red Technic bush, 30 holes]
- 1 x [Red Technic bush]

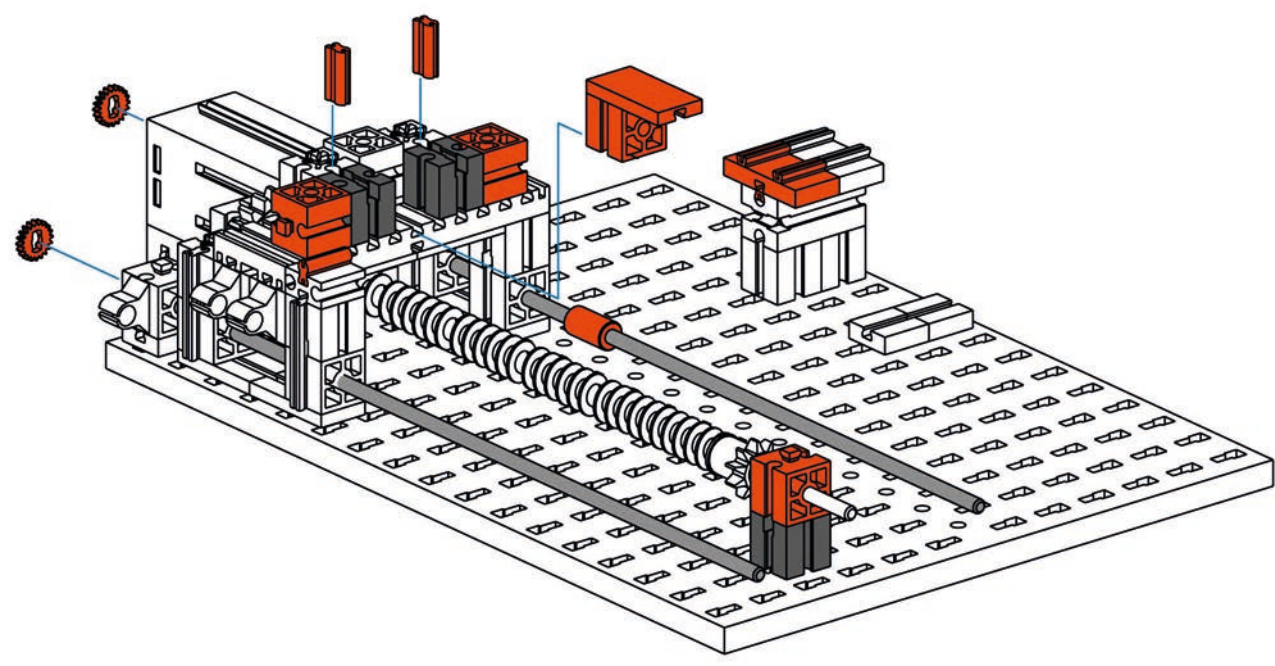


260 mm

- 8**
- 1x [Grey Technic Beam 1x3]
 - 2x [Grey Technic Pin]
 - 1x [Red Technic Connector]
 - 1x [Red Technic Pin]
 - 1x [Red Technic Plate 1x2]
 - 1x [Red Technic Pin]
 - 2x [Red Technic Beam 1x30]
 - 3x [Red Technic Pin]
 - 2x [Red Technic Connector]

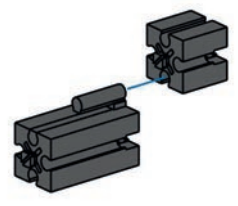
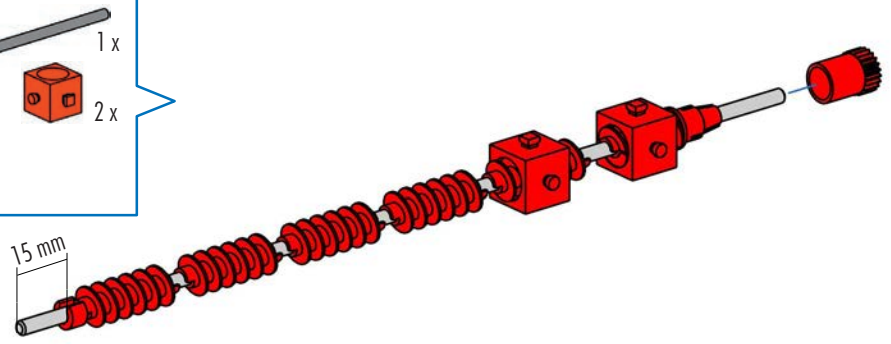


- 9**
- 1x [Red Technic Pin]
 - 2x [Red Technic Pin]
 - 2x [Grey Technic Pin]
 - 4x [Red Technic Connector]
 - 3x [Red Technic Plate 1x15]
 - 1x [Red Technic Pin]
 - 3x [Red Technic Pin]



10

- 1 x (orange bush)
- 1 x (orange bush)
- 1 x (grey axle, 260)
- 1 x (orange bush)
- 2 x (orange bush)
- 1 x (orange spring)
- 5 x (orange spring)

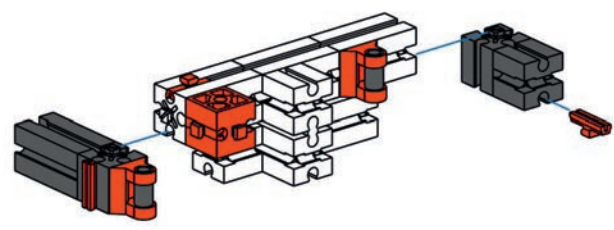
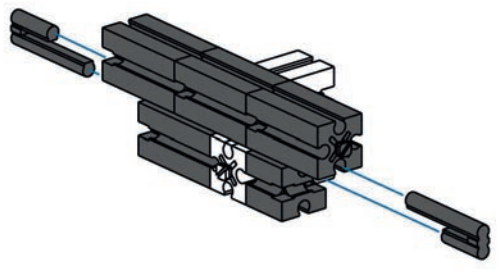


11

- 1 x (grey Technic beam)
- 1 x (grey Technic beam)
- 1 x (grey Technic pin)

12

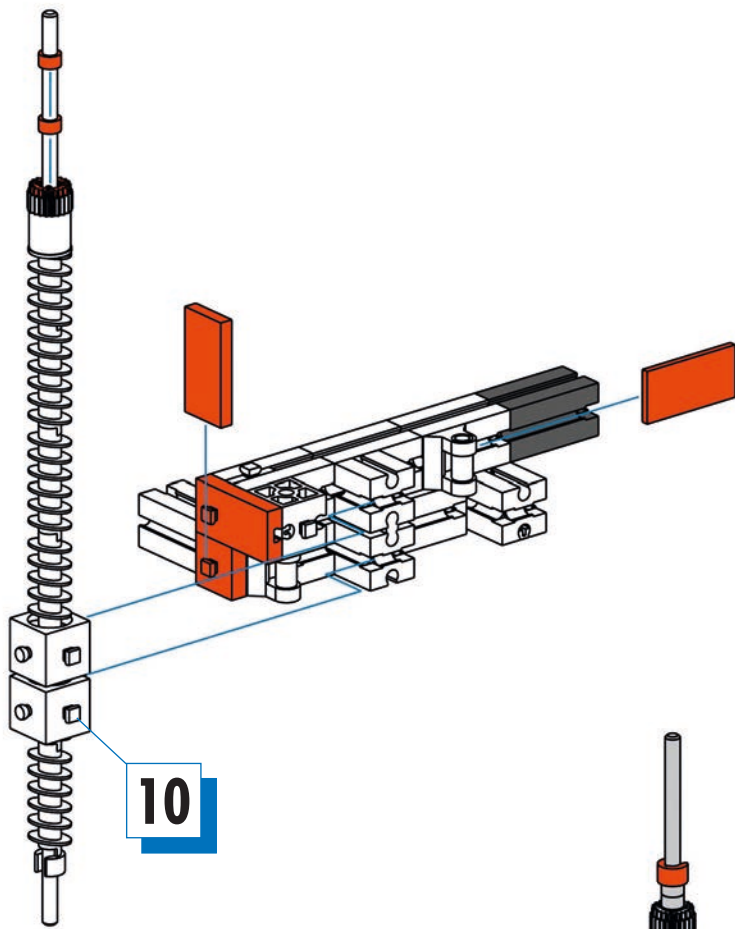
- 4 x (grey Technic beam)
- 1 x (grey Technic beam)
- 2 x (grey Technic pin)



13

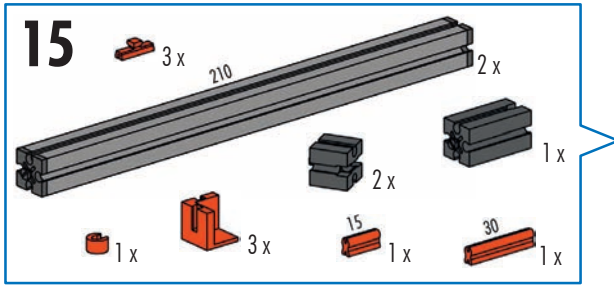
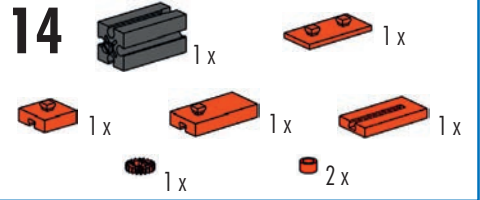
- 1 x (grey Technic beam)
- 3 x (grey Technic beam)
- 2 x (orange bush)
- 4 x (orange bush)
- 1 x (orange bush)

260 mm



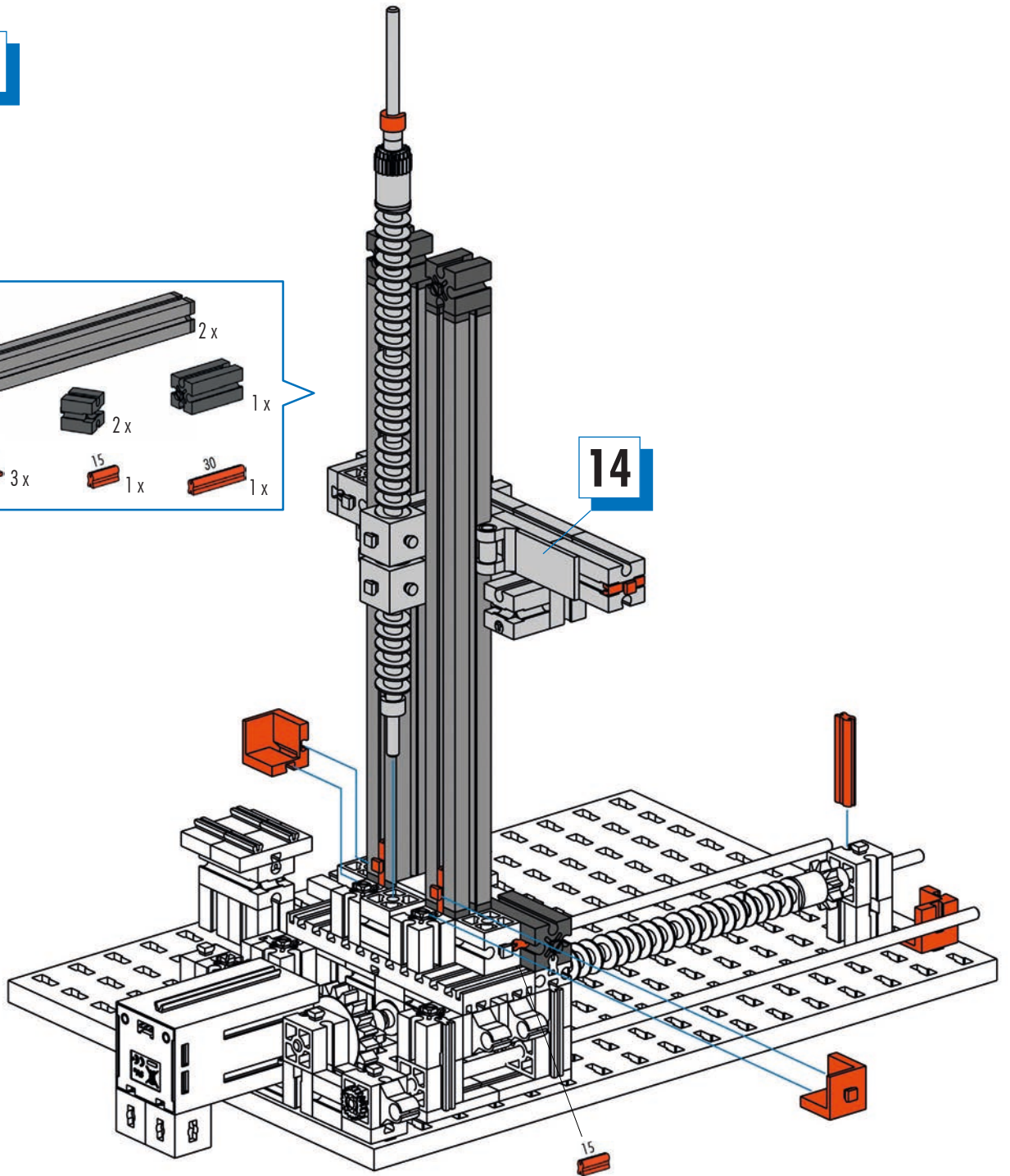
10

14

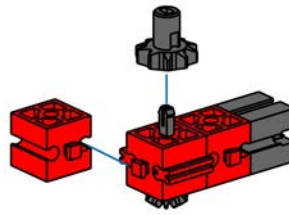


15

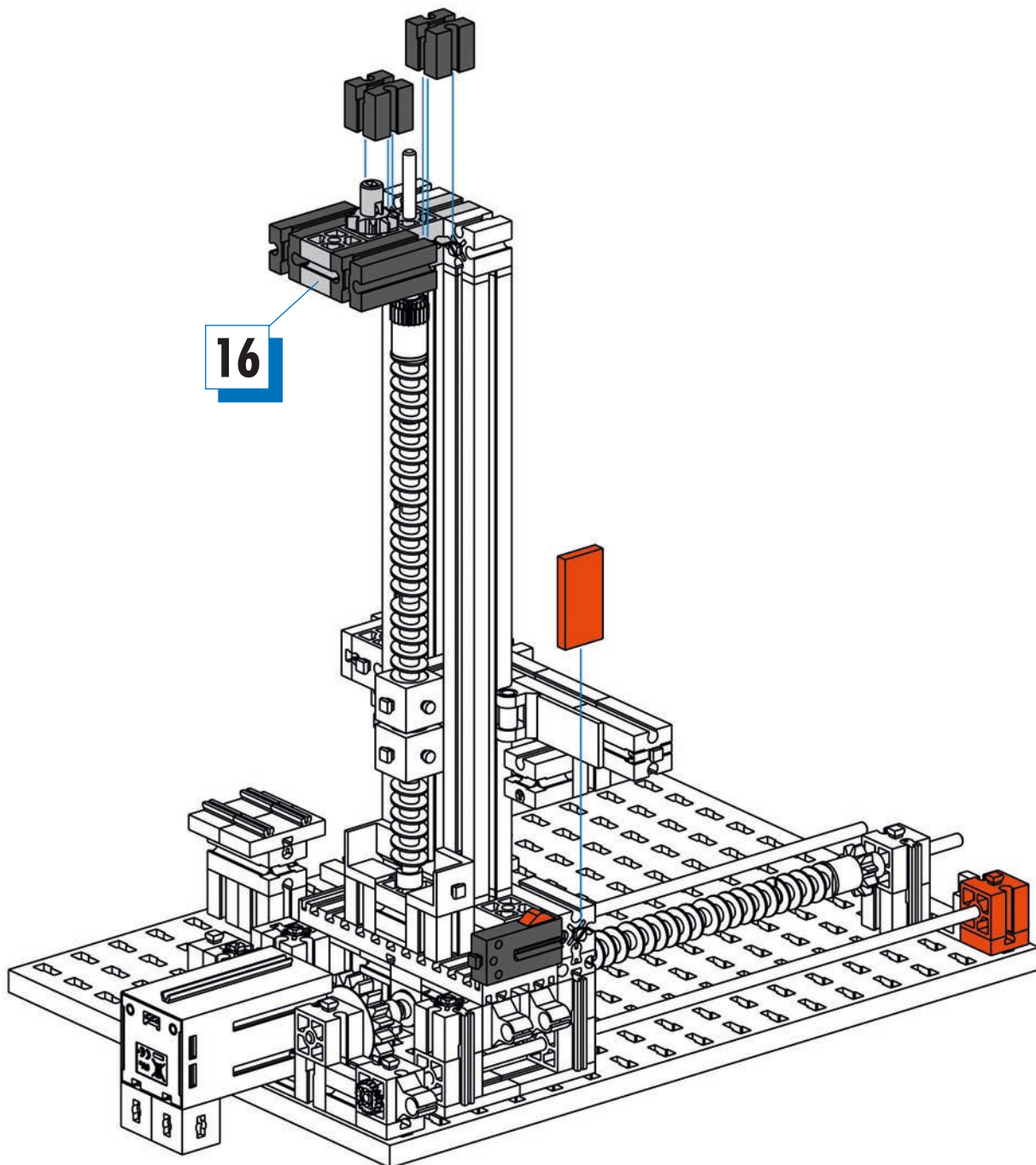
14

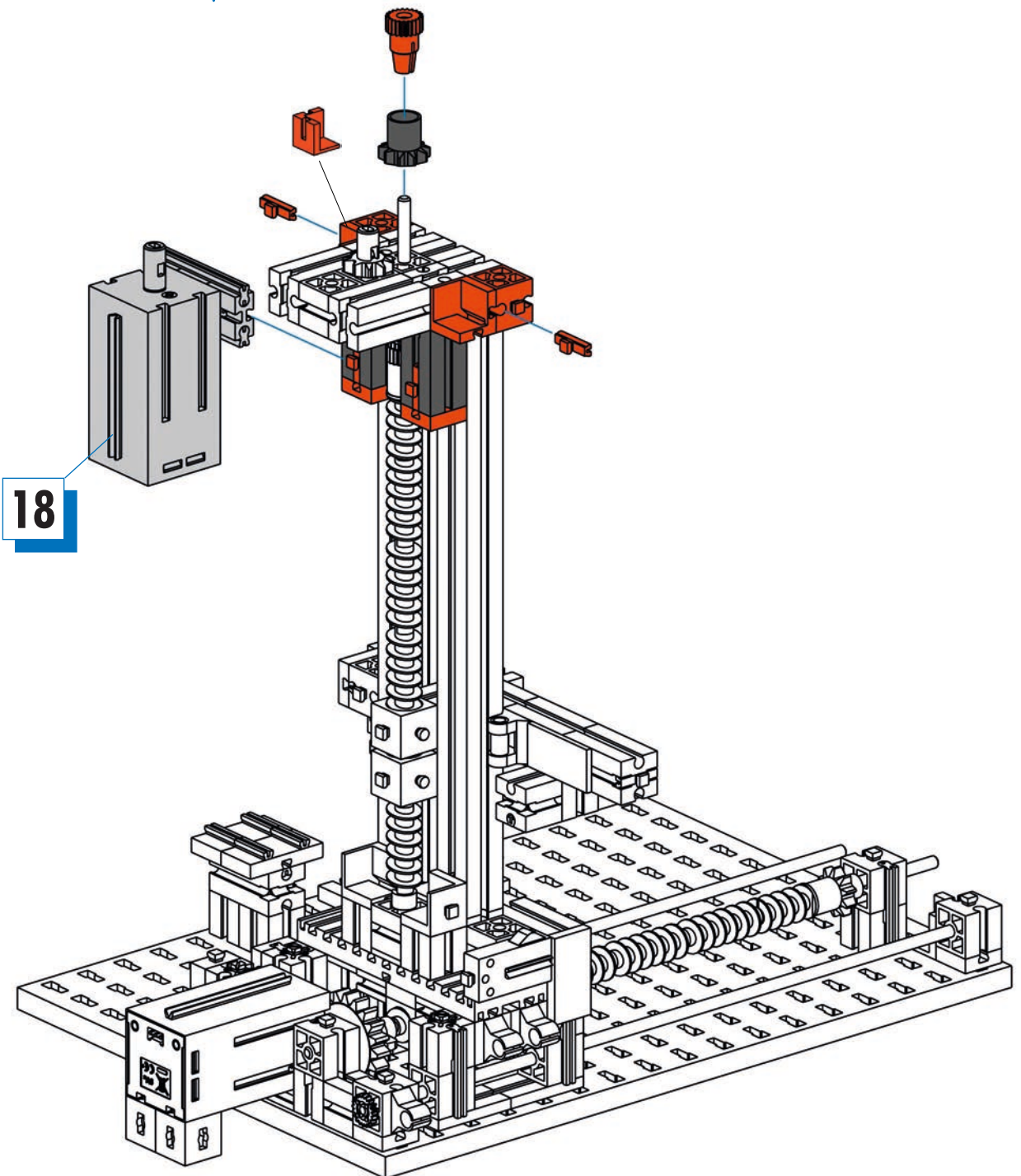
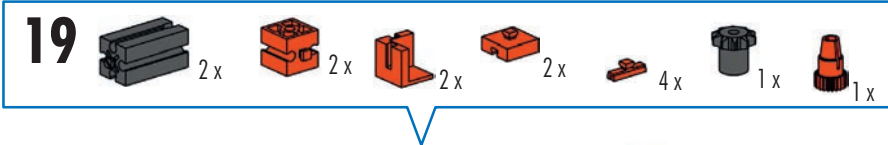
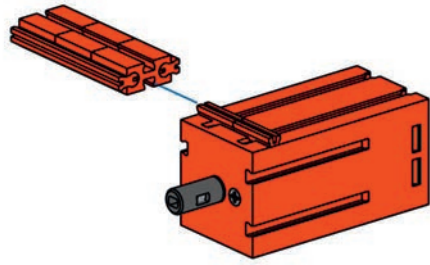
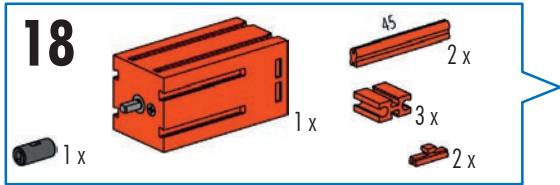


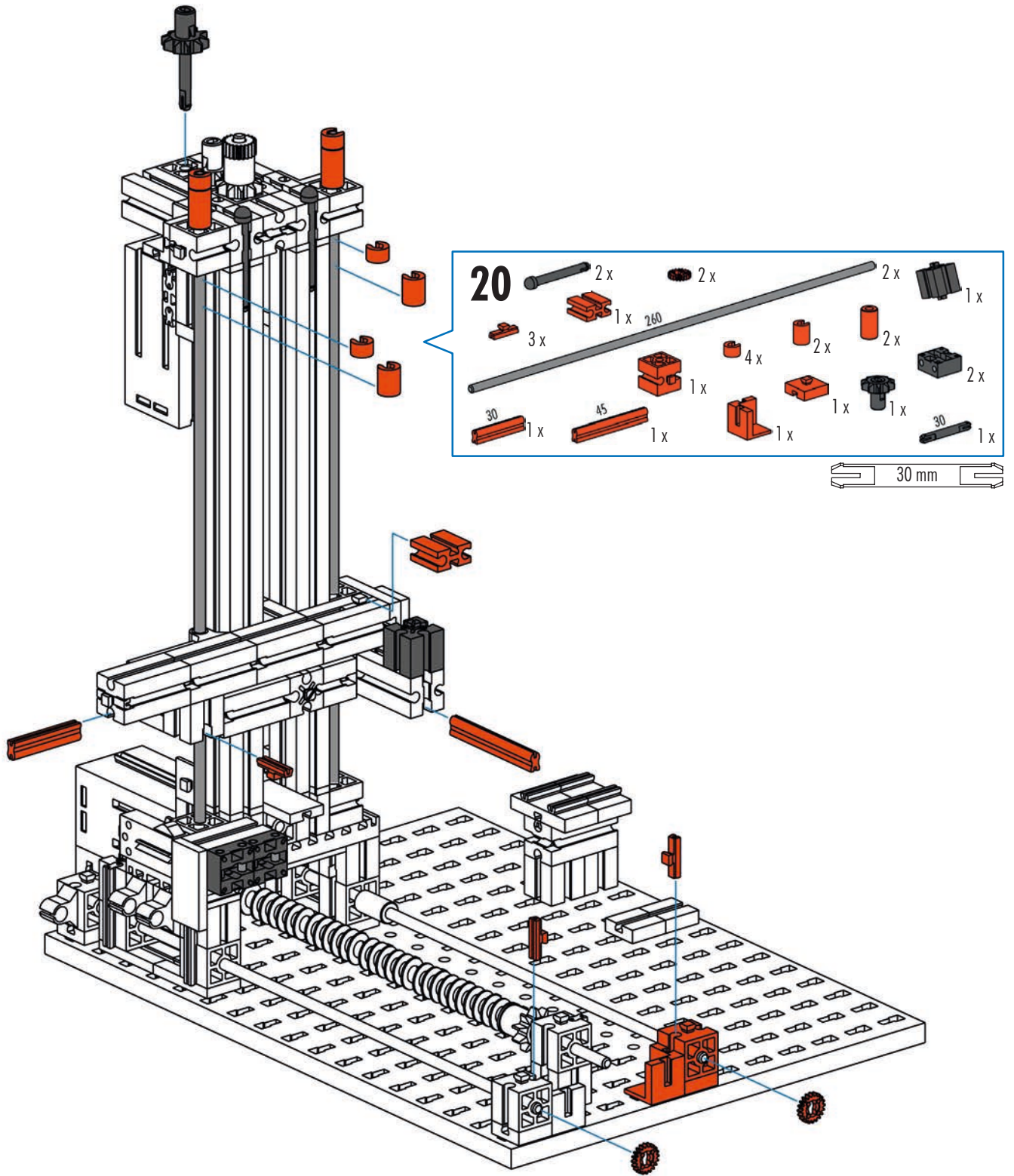
16 1x 3x 1x 1x 15 2x



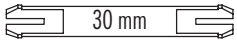
17 2x 2x 1x 1x 1x 1x





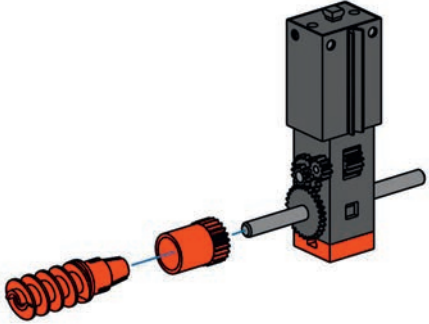


- ### 20
- 2 x (Grey axle)
 - 2 x (Black bush)
 - 2 x (Grey axle)
 - 1 x (Grey bush)
 - 3 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 2 x (Red bush)
 - 2 x (Red bush)
 - 4 x (Red bush)
 - 1 x (Red bush)
 - 2 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 2 x (Black bush)
 - 1 x (Grey bush)
 - 2 x (Grey bush)
 - 1 x (Grey bush)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)



260 mm

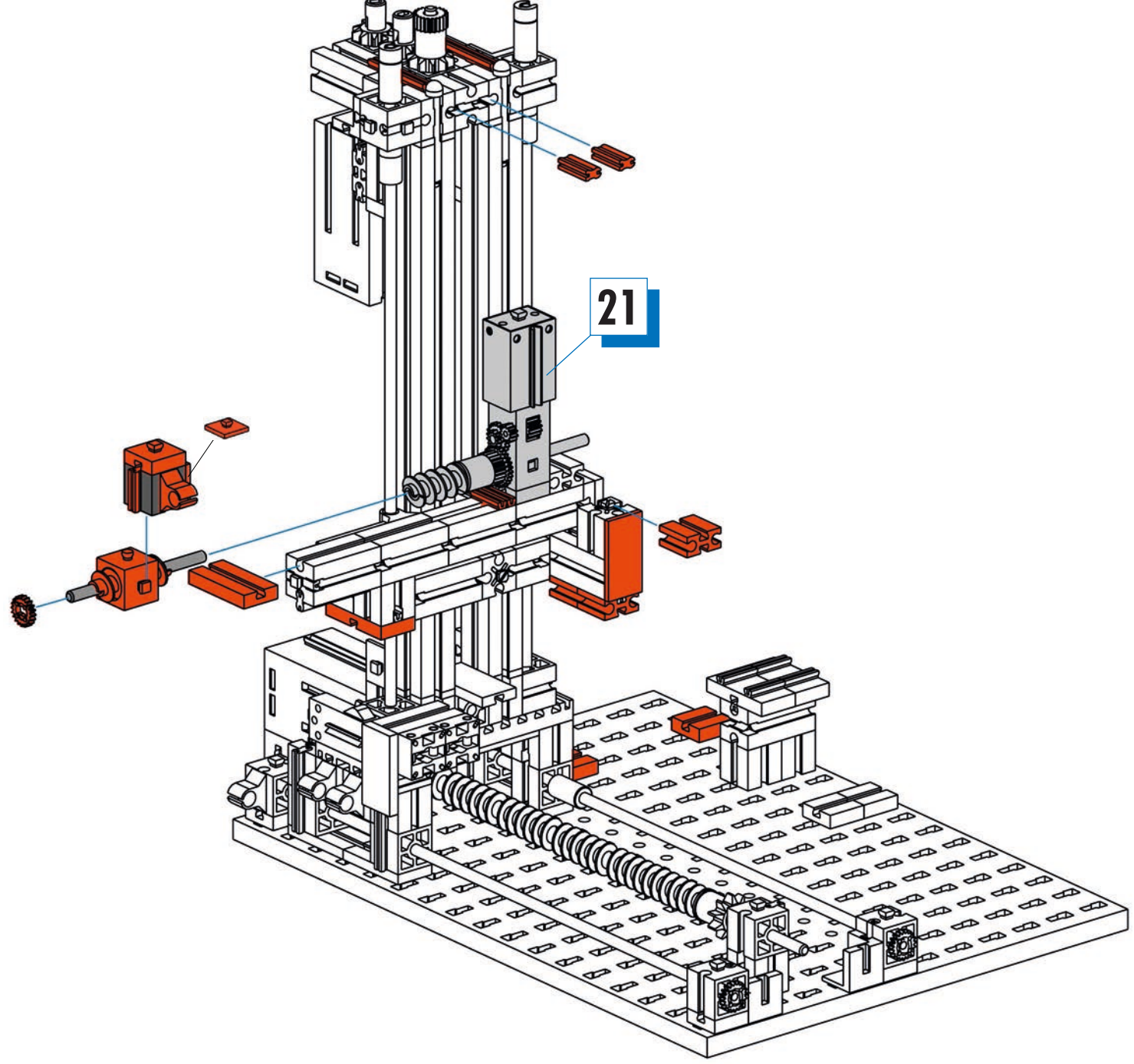
- ### 21
- 1 x (Grey motor)
 - 1 x (Grey motor)
 - 1 x (Grey axle)
 - 1 x (Red bush)
 - 1 x (Red bush)
 - 1 x (Red bush)



22

- 1x [Grey Technic Pin]
- 1x [Red 1x1 Technic Brick]
- 1x [Red 1x3 Technic Beam]
- 3x [Red 1x2 Technic Beam]
- 3x [Red 1x2 Technic Beam]
- 1x [Red 1x3 Technic Beam]
- 1x [Red 1x1 Technic Brick]
- 1x [Red 1x1 Technic Brick]
- 1x [Grey Technic Pin (60)]
- 1x [Red 1x1 Technic Brick]
- 2x [Red 1x2 Technic Beam]
- 1x [Red Spring]
- 2x [Red 1x3 Technic Beam]
- 3x [Red 1x2 Technic Beam]
- 1x [Red 1x1 Technic Brick]
- 1x [Red 1x3 Technic Beam]

60 mm

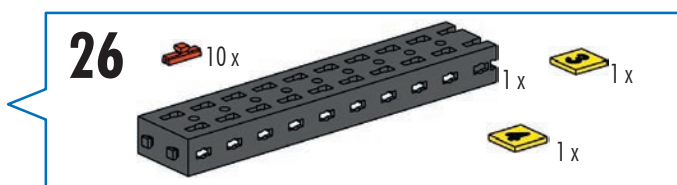
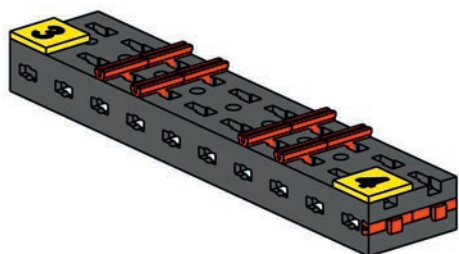
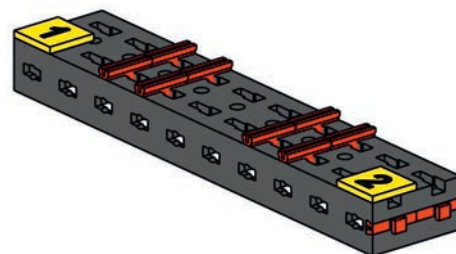
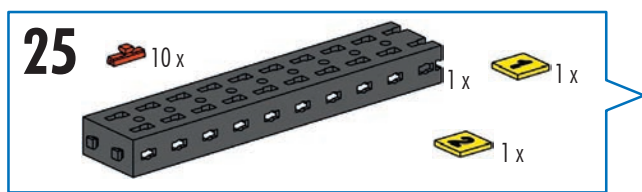
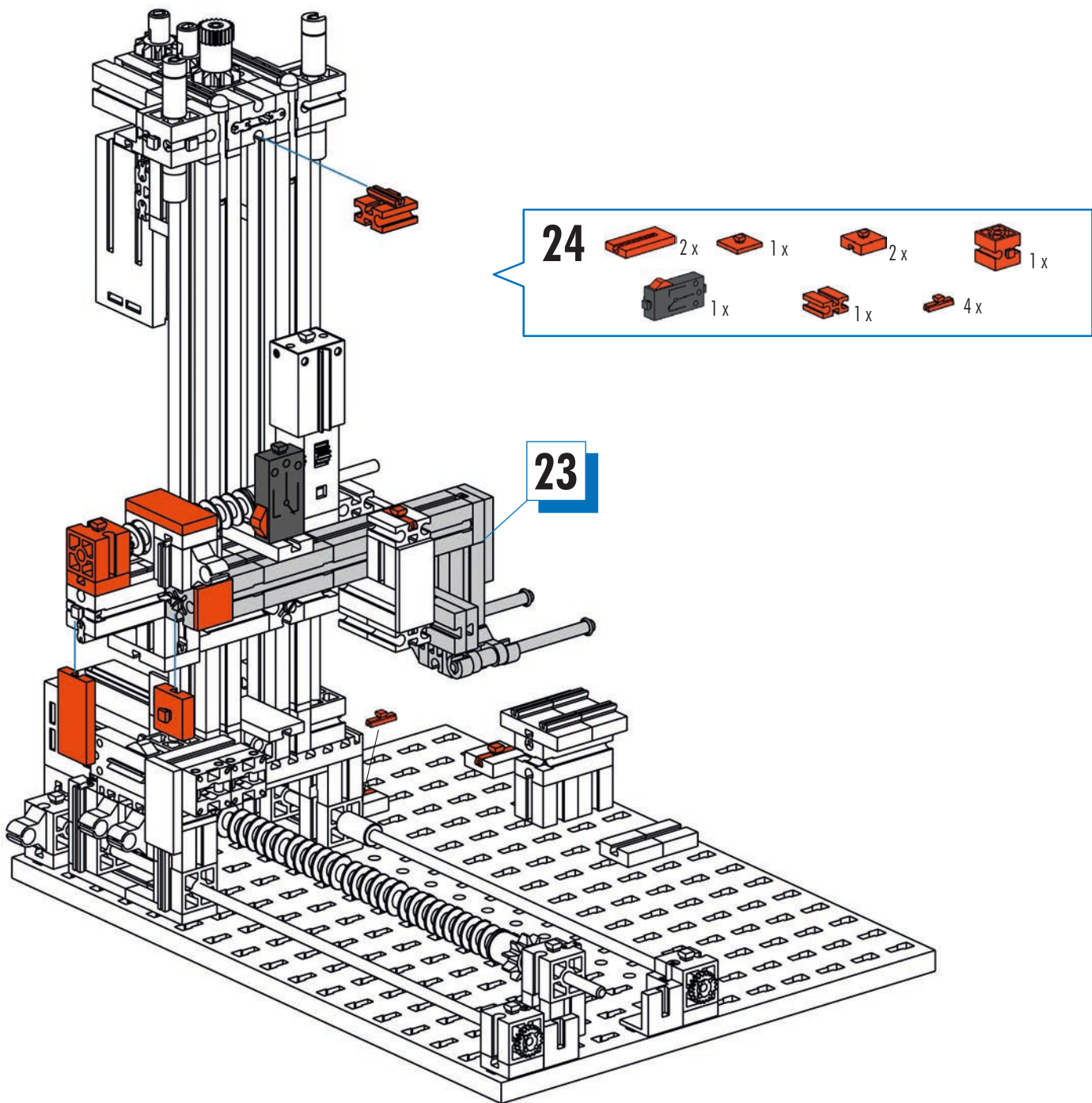


23

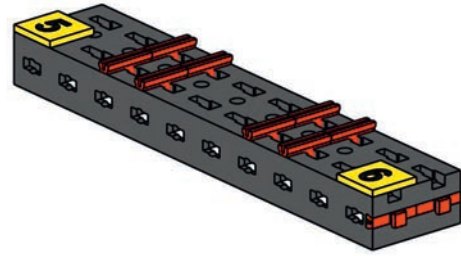
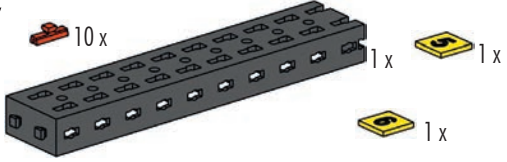
- 5x [Grey Technic Pin]
- 4x [Red 1x2 Technic Beam]
- 1x [Red 1x3 Technic Beam]
- 1x [Red 1x3 Technic Beam]
- 2x [Red 1x2 Technic Beam]
- 2x [Red 1x1 Technic Brick]
- 1x [Red 1x3 Technic Beam]
- 1x [Red 1x2 Technic Beam]
- 1x [Red 1x2 Technic Beam]
- 1x [Red 1x3 Technic Beam]
- 2x [Red 1x1 Technic Brick]
- 4x [Red 1x1 Technic Brick]
- 1x [Grey Technic Pin (110)]
- 2x [Grey Technic Pin (60)]

110 mm

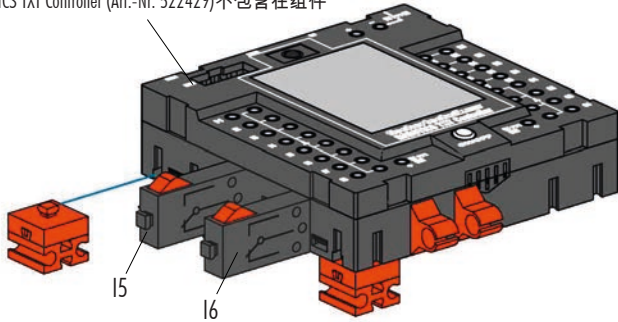
60 mm



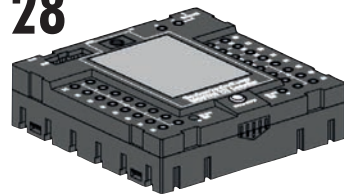
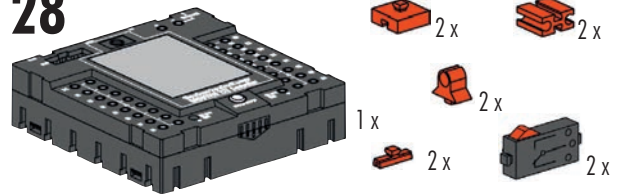
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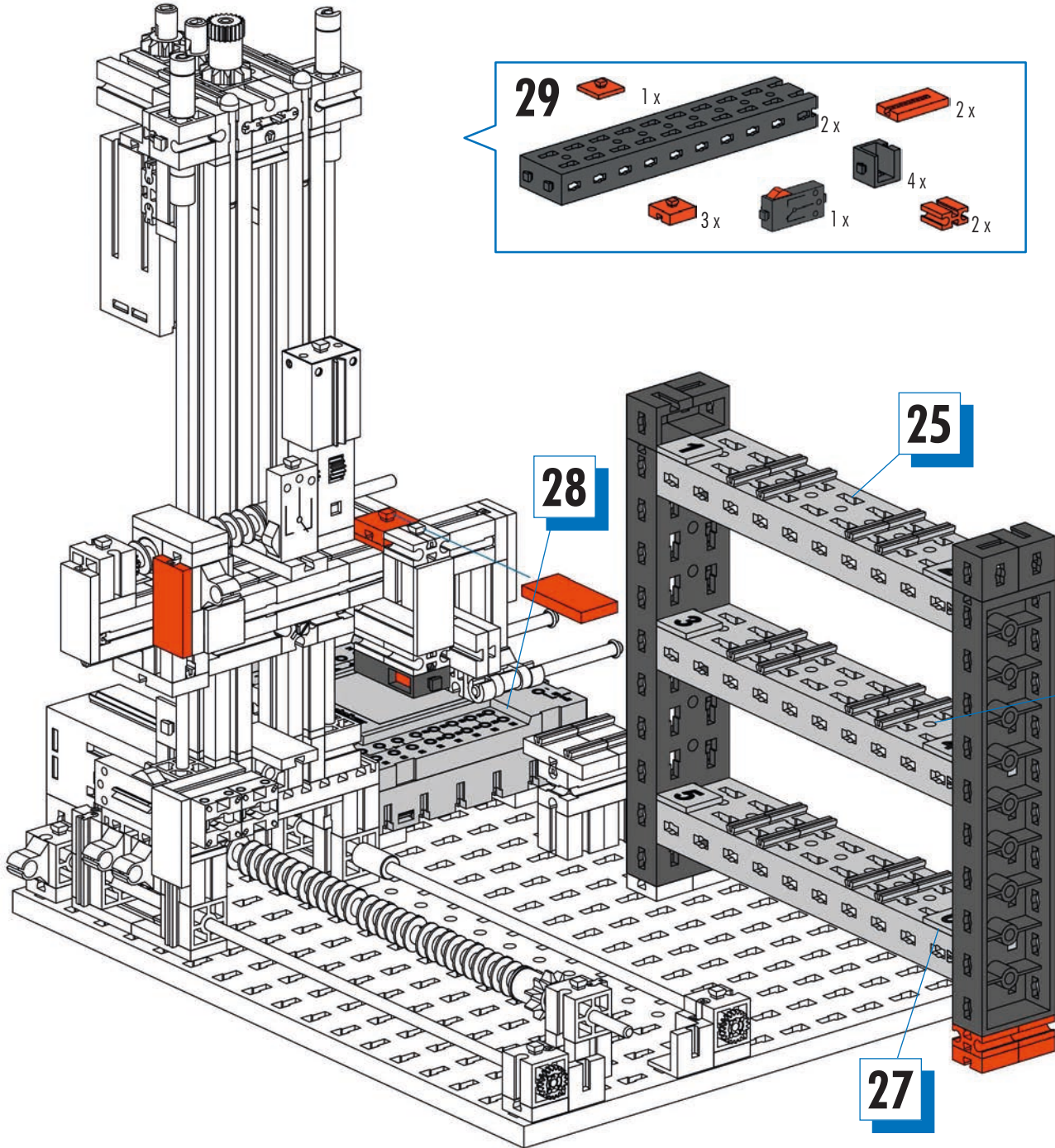
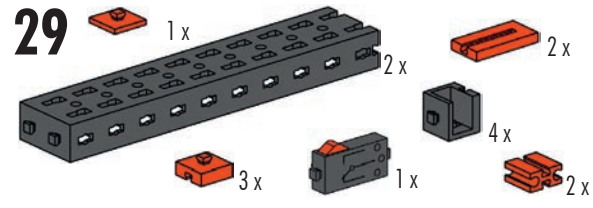
- ROBOTICS TXT Controller (Art.-Nr. 522429) nicht im Baukasten enthalten
- ROBOTICS TXT Controller (Art.-Nr. 522429) not included in the modular kit
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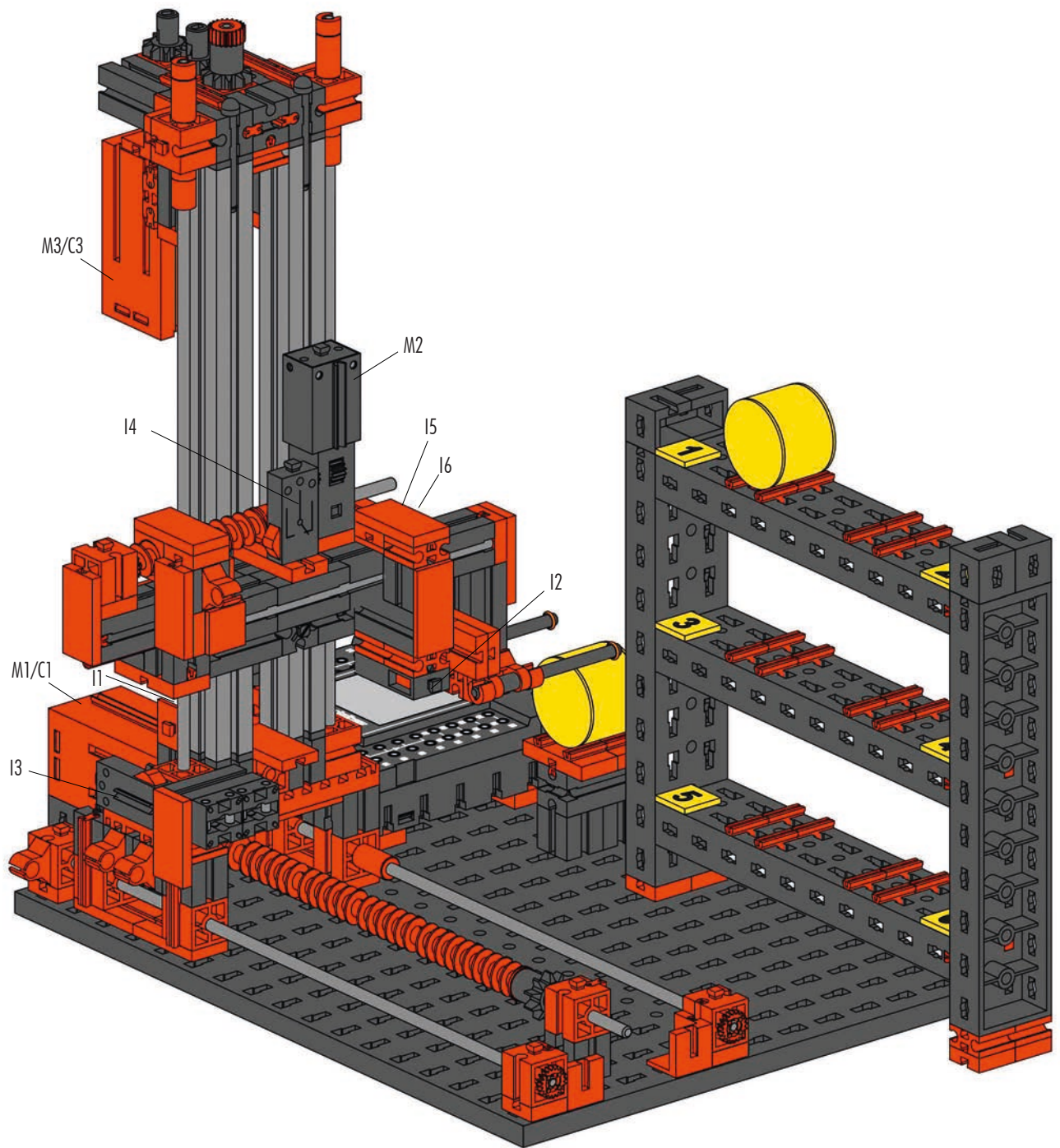


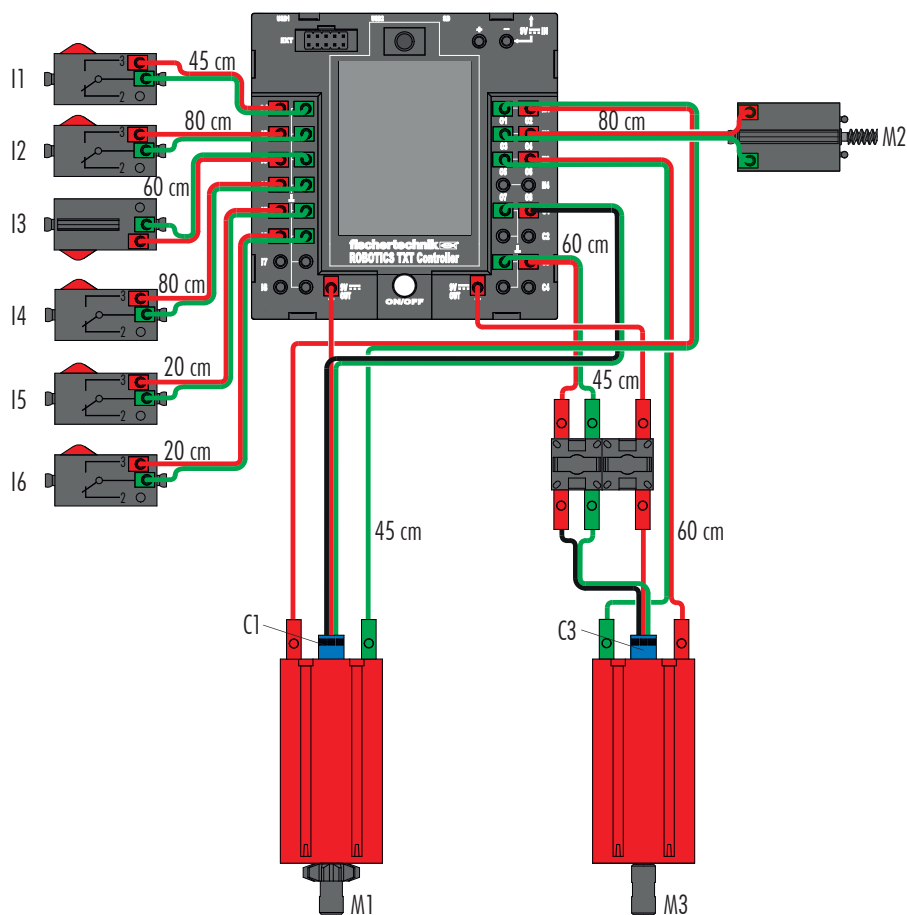
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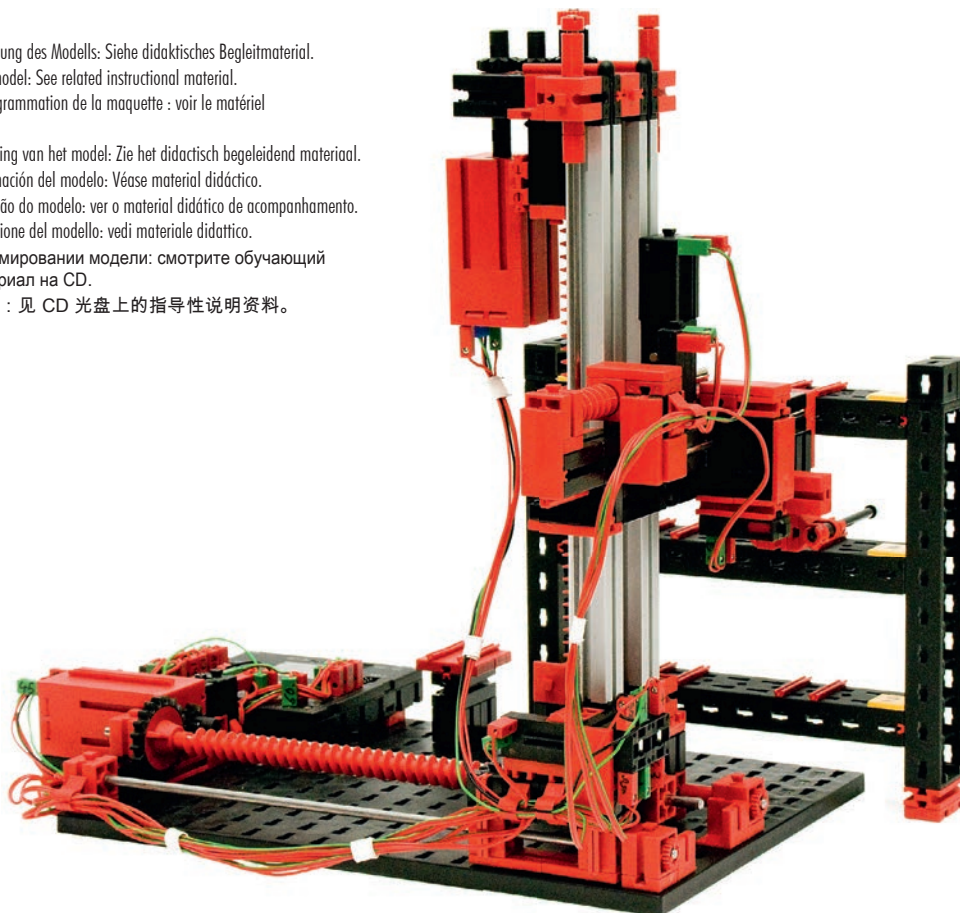
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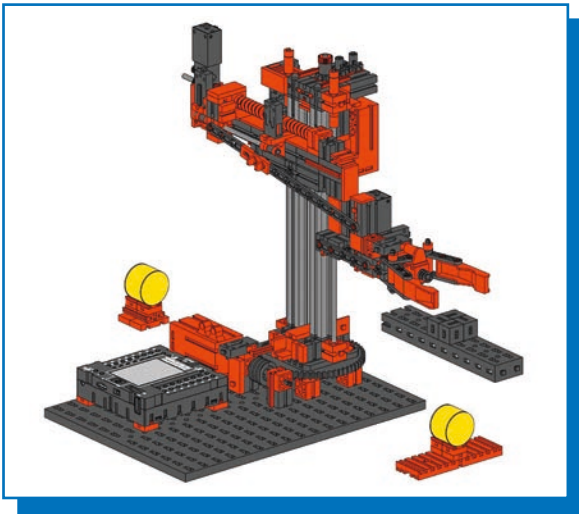






- Informationen zur Programmierung des Modells: Siehe didaktisches Begleitmaterial.
- Information on programming model: See related instructional material.
- Informations concernant la programmation de la maquette : voir le matériel d'accompagnement didactique.
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- 有关该模型编程的信息：见 CD 光盘上的指导性说明资料。

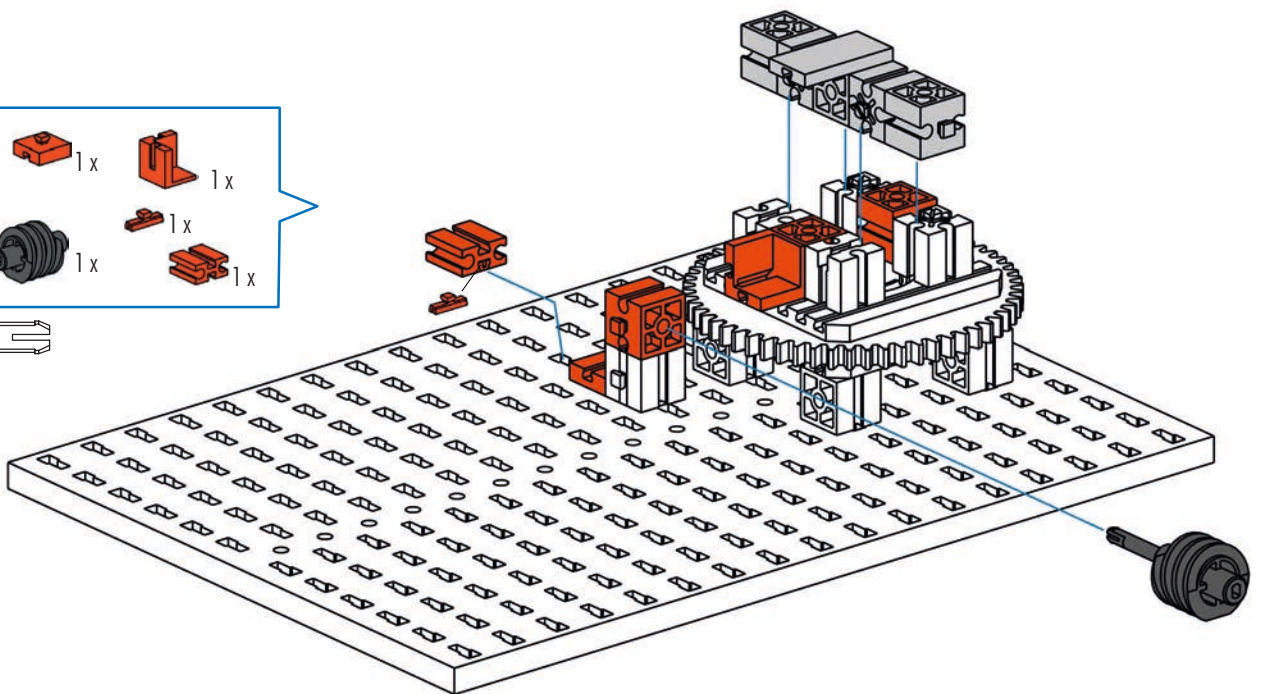
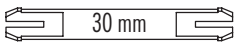
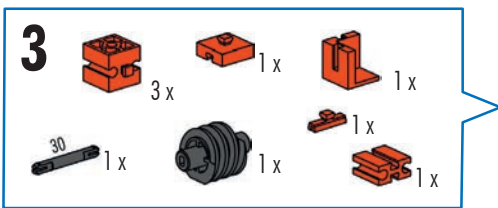
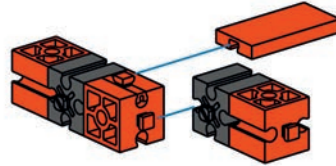
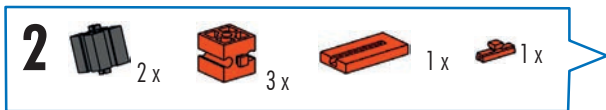
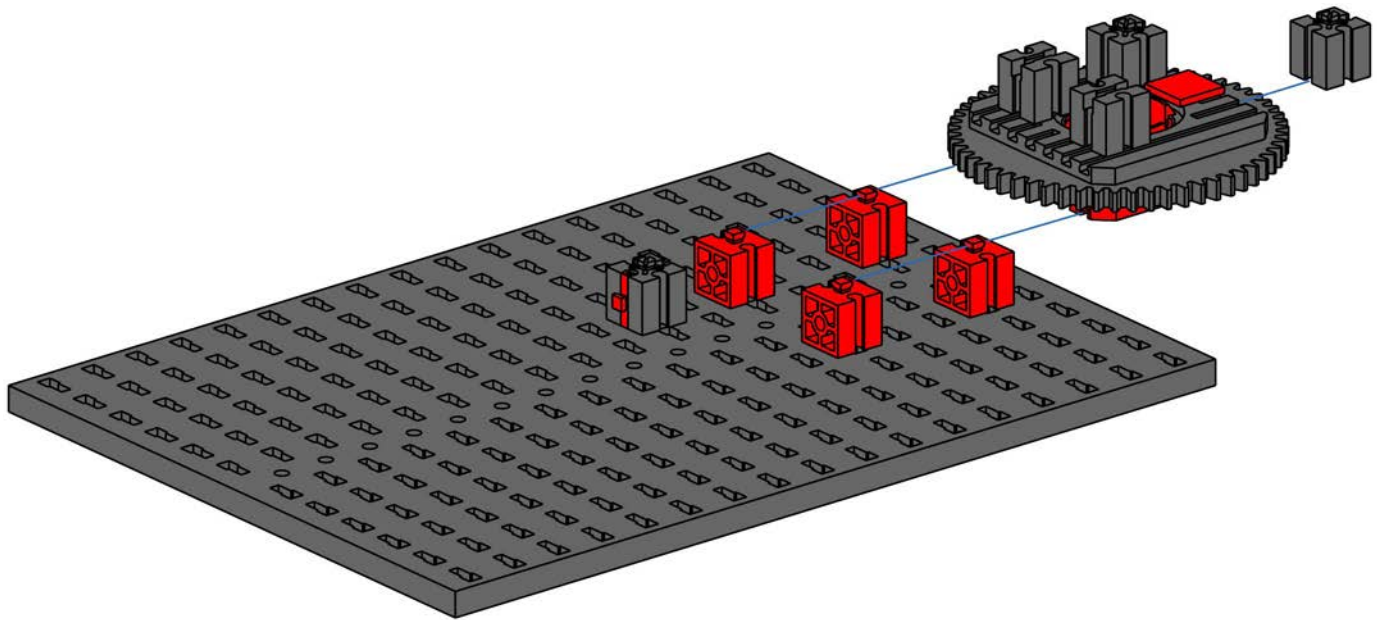
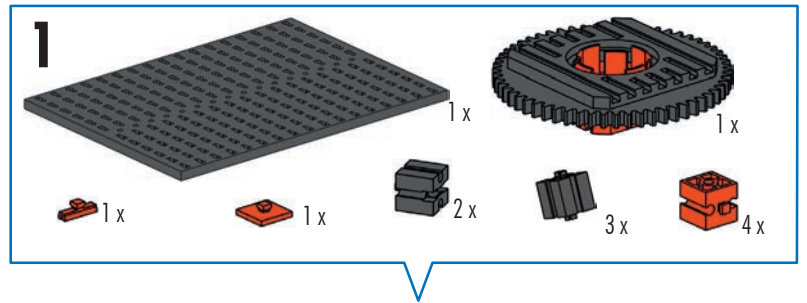


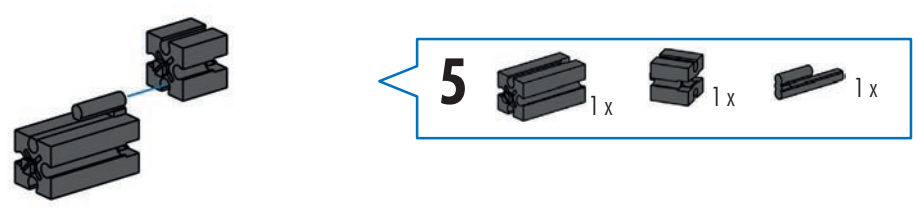
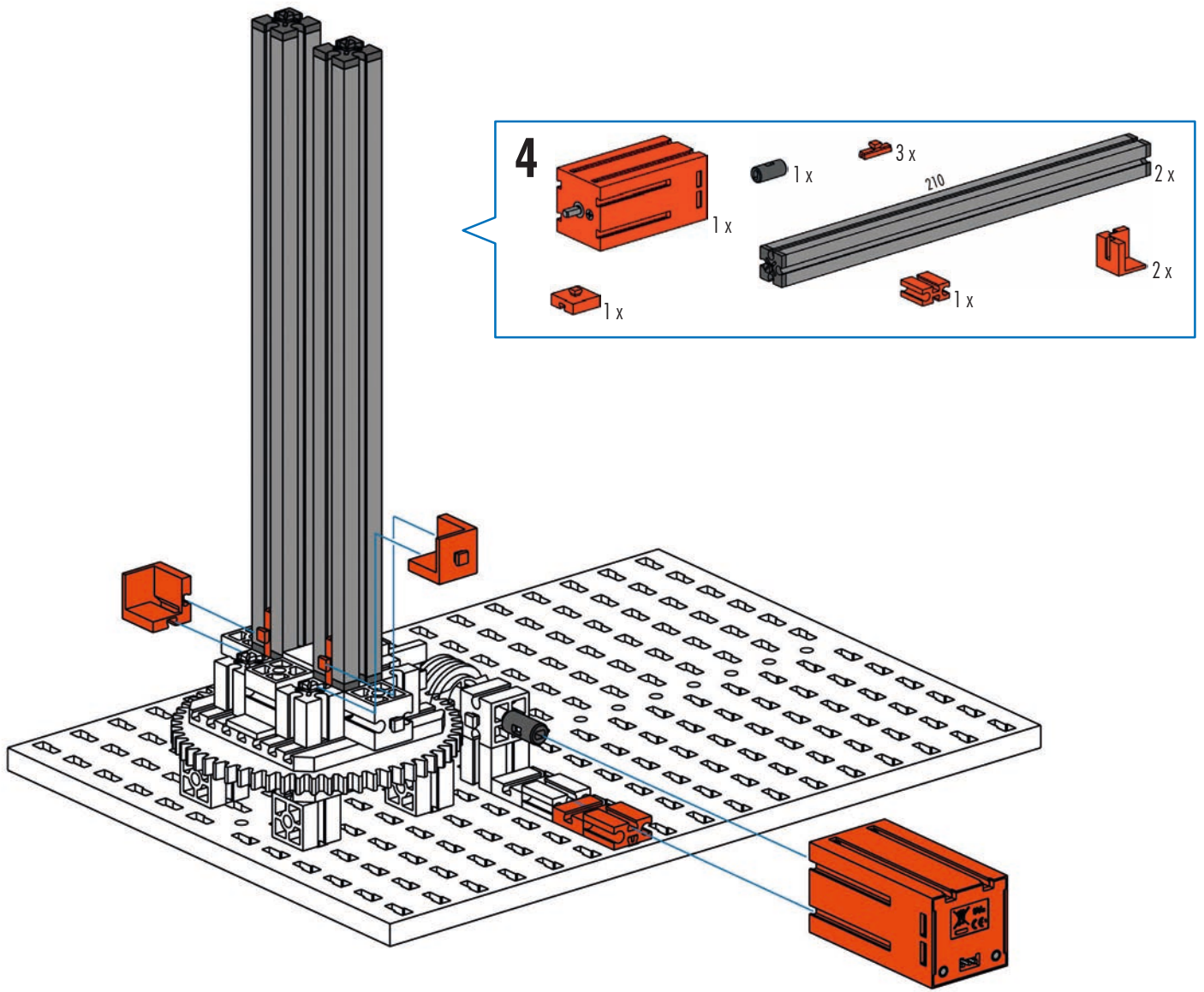


Schwenngreifer
Pivoting gripper
Grappin basculant

Zwenkgripper
Pinza oscilante
Garras rotativas

Pinza orientabile
Поворотный захват
回转抓爪





7

- 1 x [Red bush]
- 1 x [Red bush]
- 1 x [Grey axle, 260 mm]
- 1 x [Red bush]
- 1 x [Red bush]
- 5 x [Red spring]
- 2 x [Red bush]

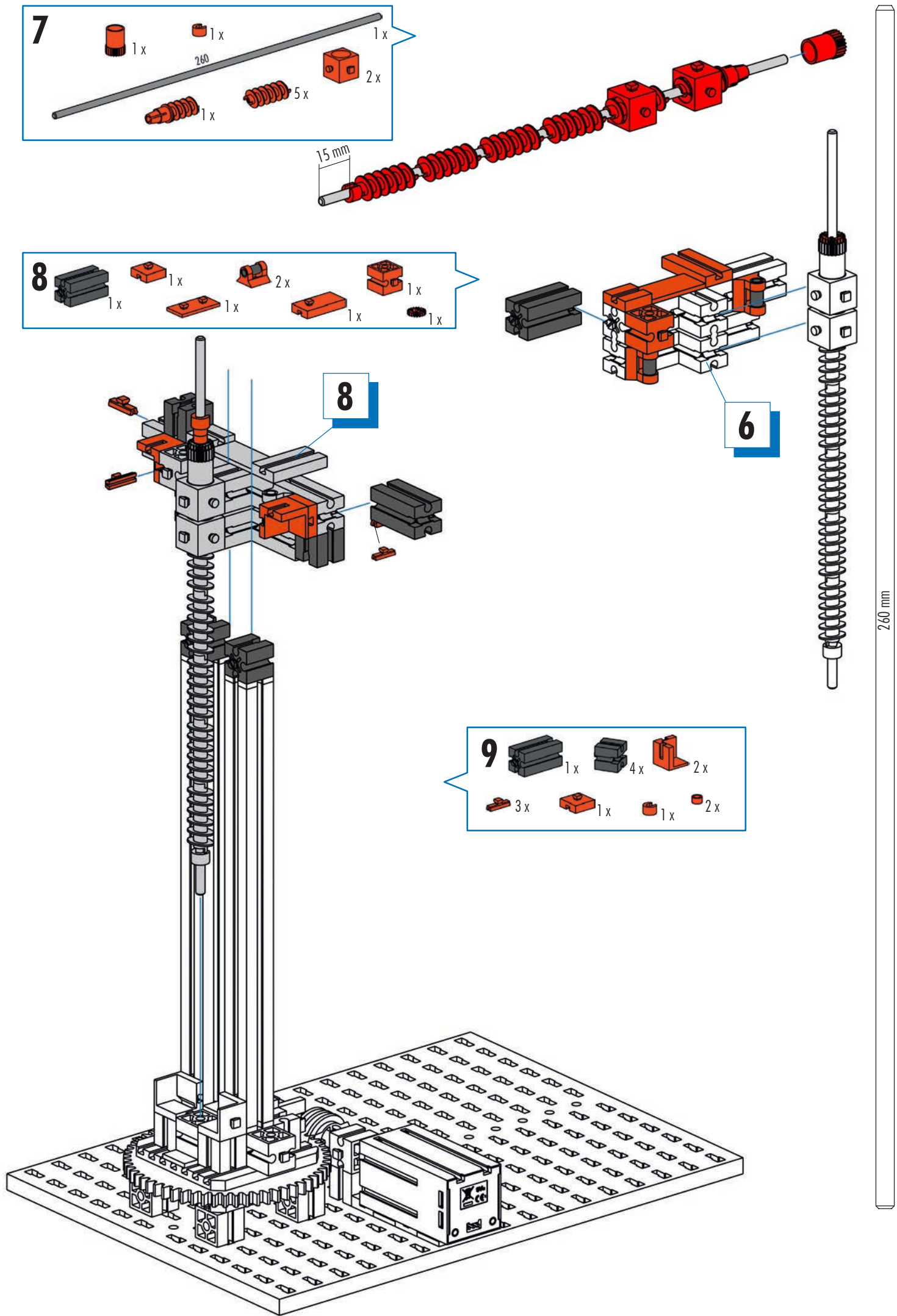
15 mm

8

- 1 x [Grey axle]
- 1 x [Red bush]
- 2 x [Red bush]
- 1 x [Red bush]
- 1 x [Red bush]
- 1 x [Red bush]
- 1 x [Red bush]
- 1 x [Red bush]

6

8



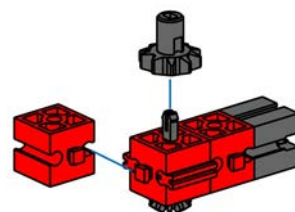
260 mm

9

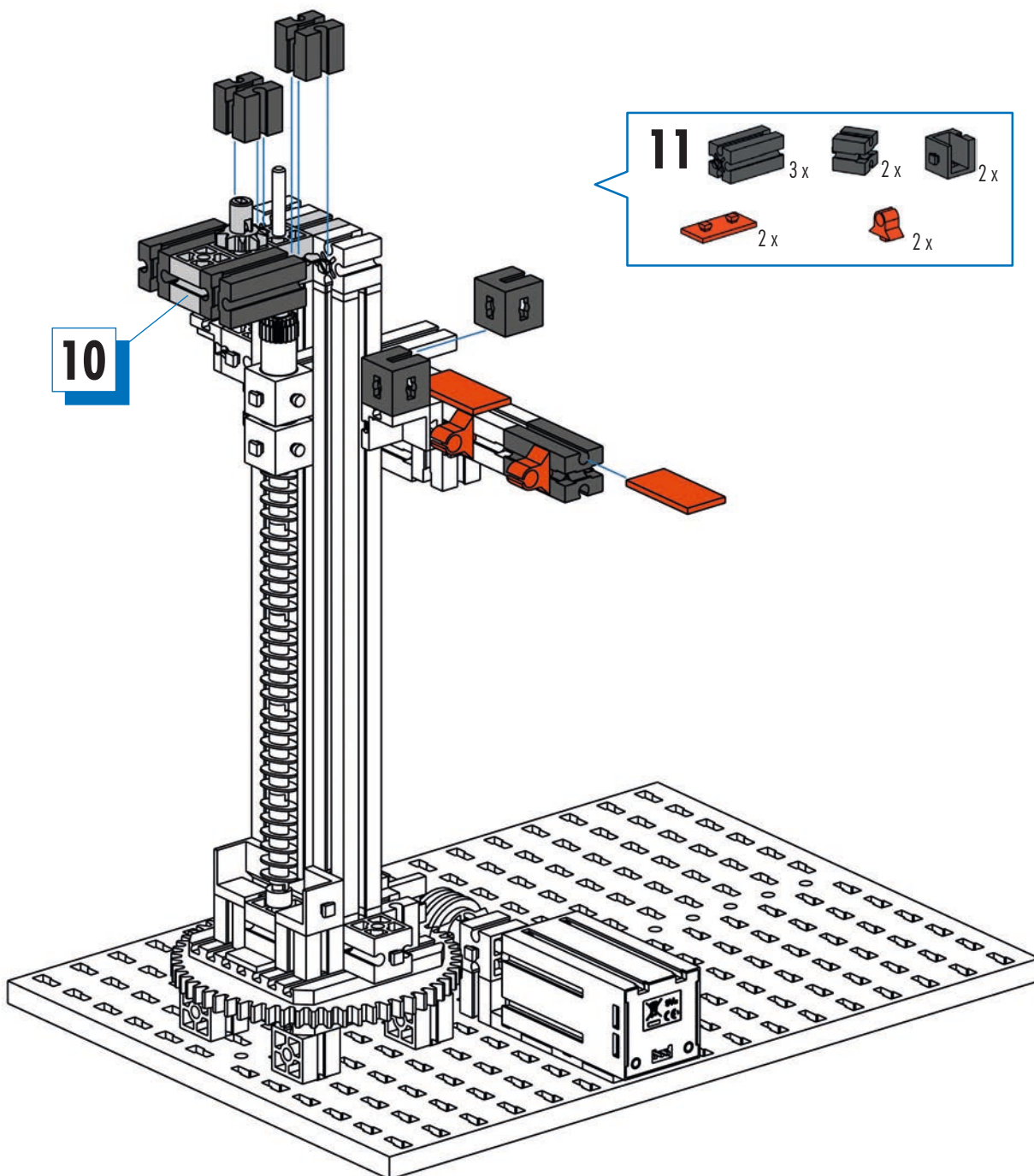
- 1 x [Grey axle]
- 4 x [Grey axle]
- 2 x [Red bush]
- 3 x [Red bush]
- 1 x [Red bush]
- 1 x [Red bush]
- 2 x [Red bush]

10

- 1x [Grey Technic Pin]
- 3x [Red Technic 1x3 Brick]
- 1x [Grey Technic Pin]
- 1x [Grey Technic Pin]
- 2x [Red Technic 1x2 Brick]

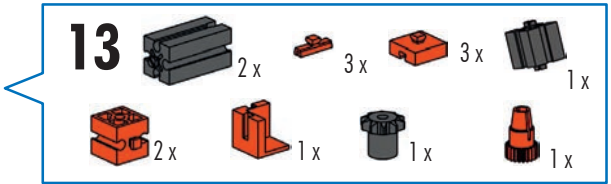
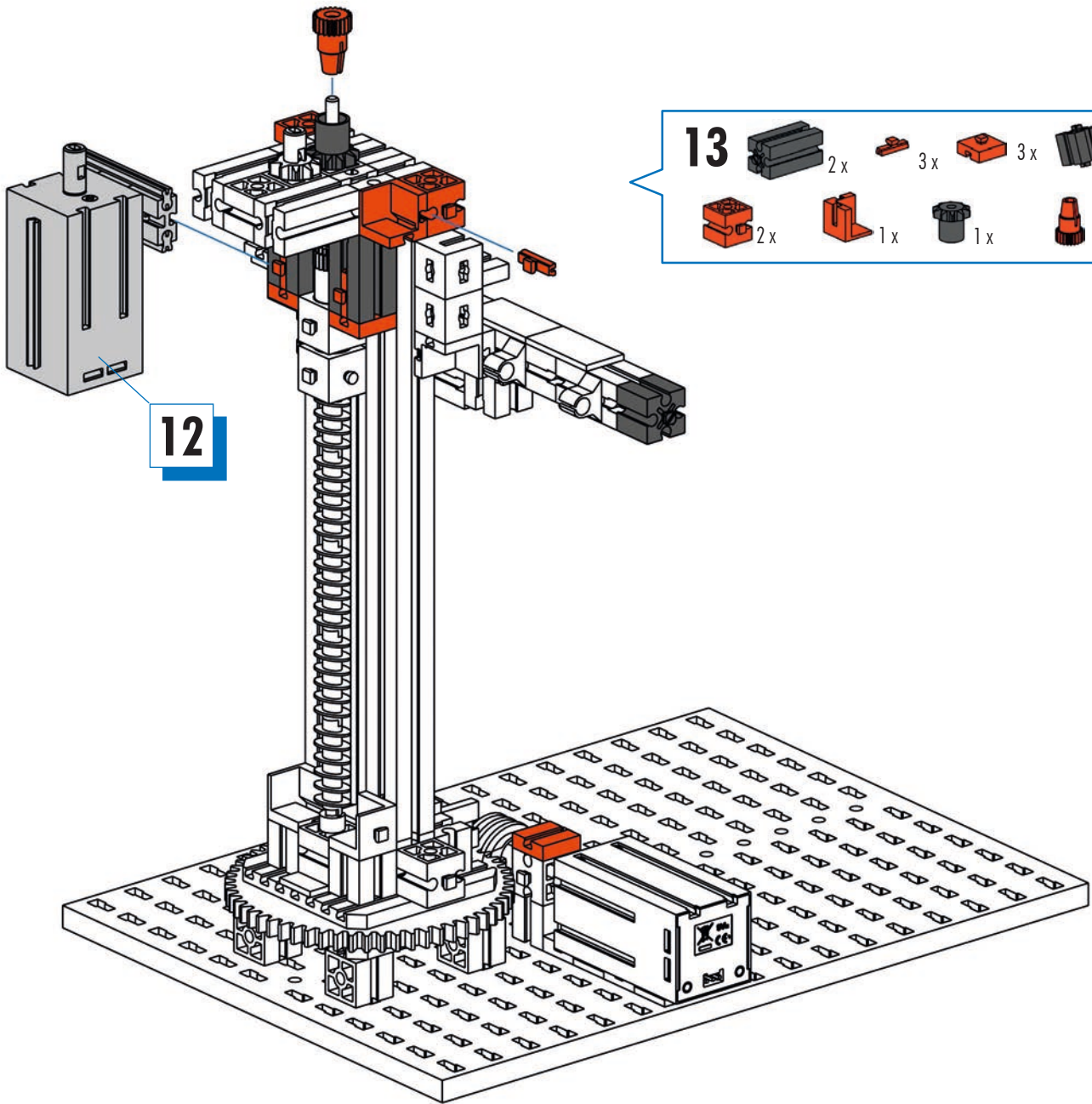
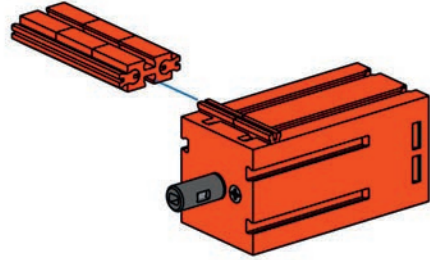
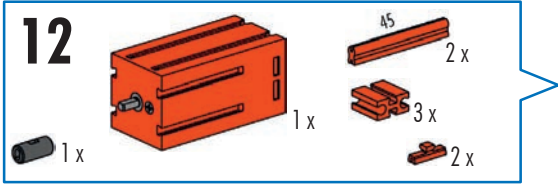


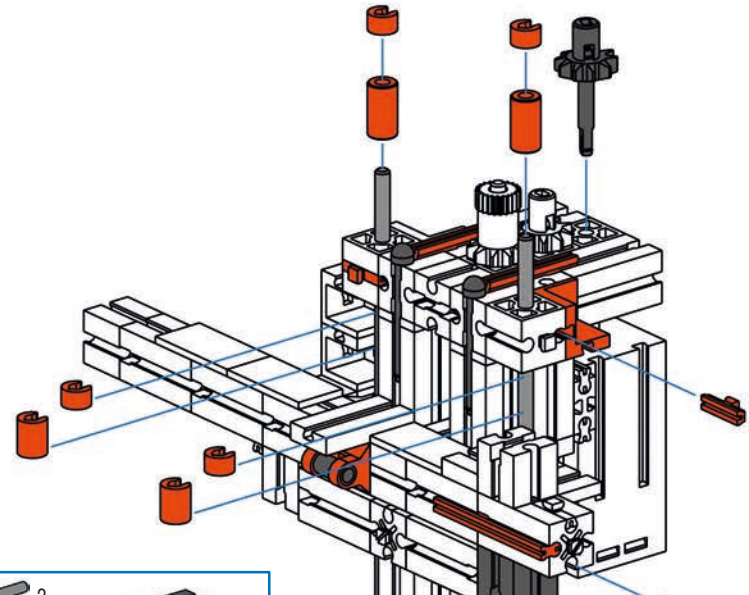
10



11

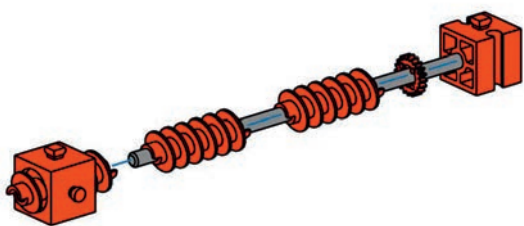
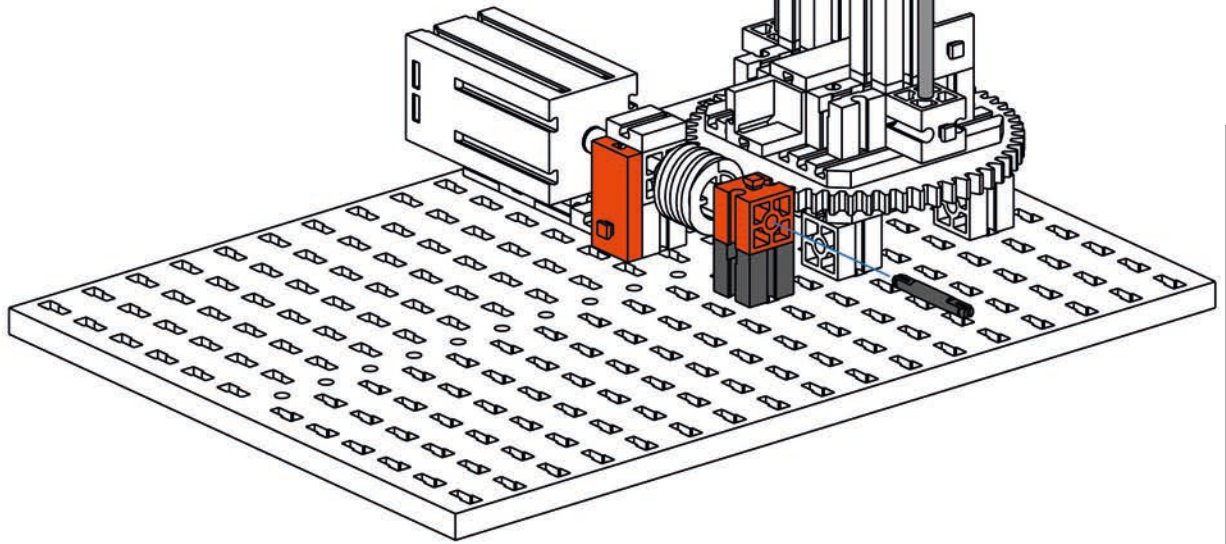
- 3x [Grey Technic Pin]
- 2x [Grey Technic Pin]
- 2x [Grey Technic Pin]
- 2x [Red Technic 1x2 Brick]
- 2x [Red Technic 1x2 Brick]





14

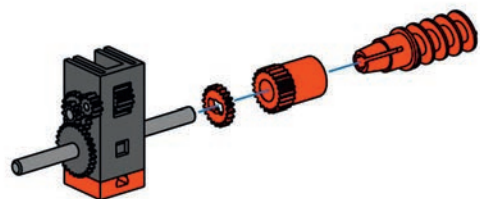
- 30 2x
- 260 2x
- 2x
- 2x
- 1x
- 2x
- 1x
- 1x
- 1x
- 2x
- 4x
- 2x
- 1x
- 1x
- 15 1x
- 30 2x
- 45 1x
- 2x



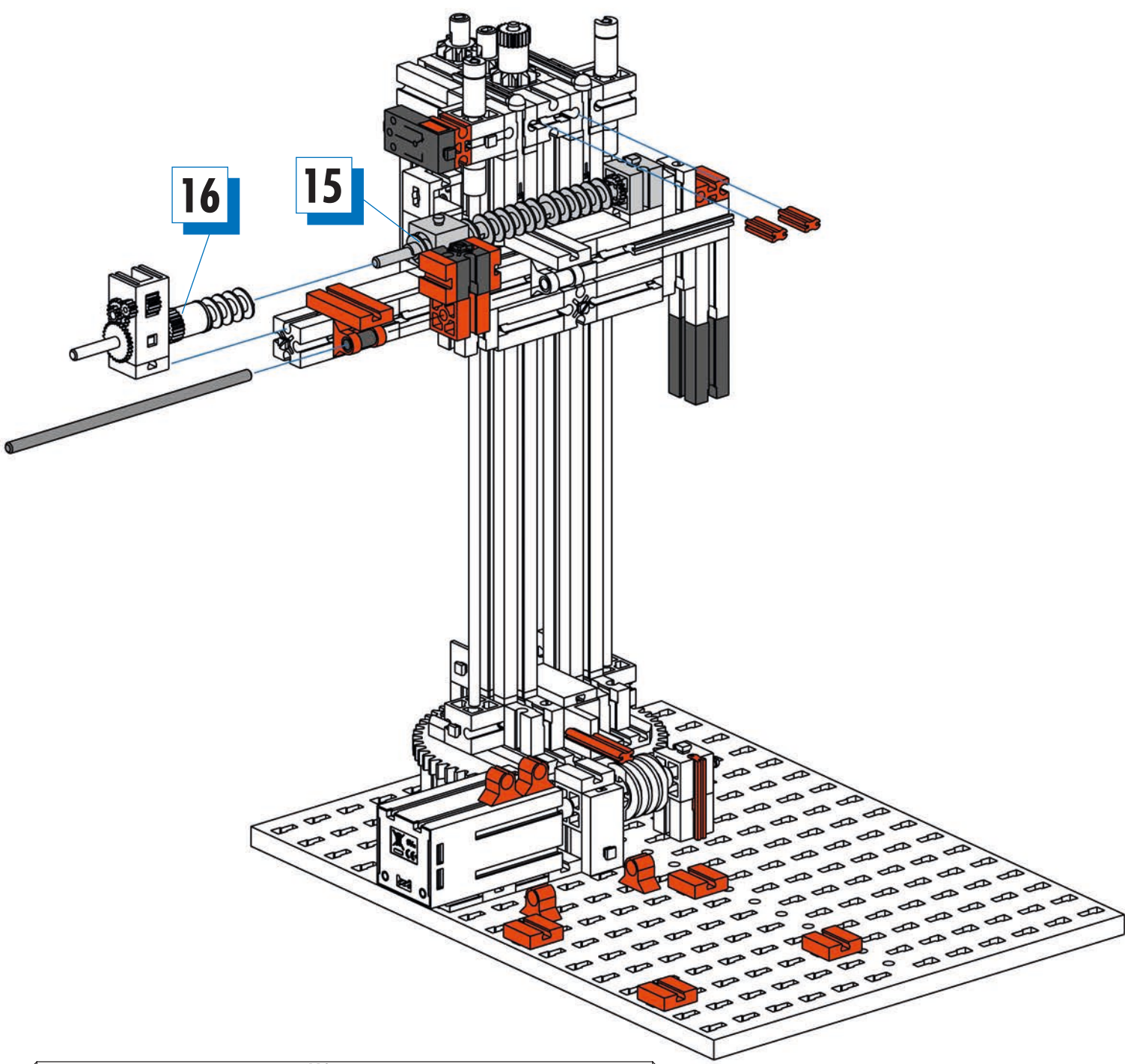
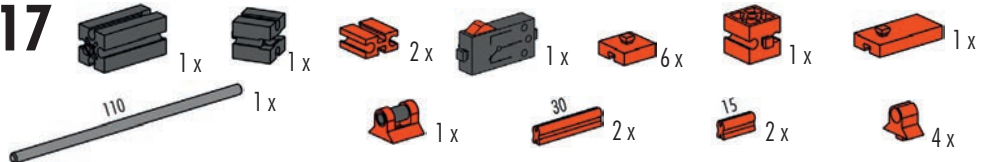
15

- 125 1x
- 3x
- 1x
- 1x
- 1x

16



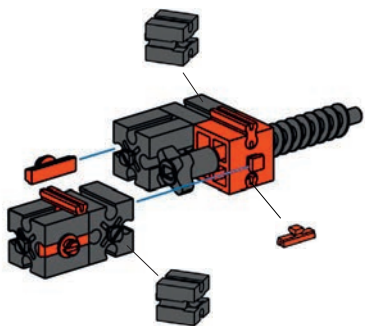
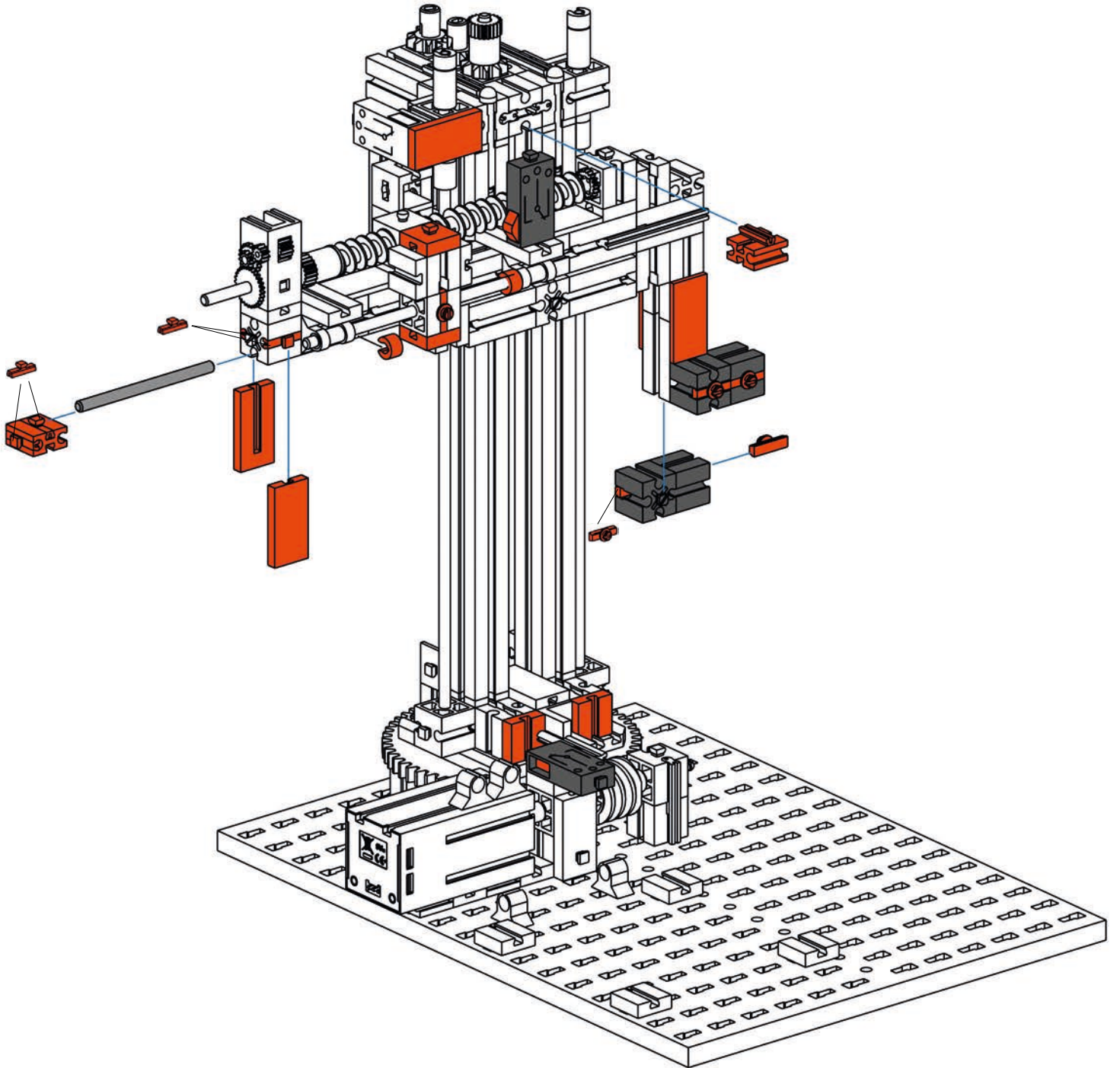
17



18

- 2x [Grey Technic Brick 2x4 with Hole]
- 2x [Grey Technic Brick 2x4 with Hole]
- 5x [Red Technic Pin]
- 5x [Red Technic Pin]
- 2x [Red Technic Brick 1x3 with Hole]
- 2x [Grey Technic Brick 2x4 with Hole]
- 4x [Red Technic Pin]
- 3x [Red Technic Brick 1x3 with Hole]
- 2x [Red Technic Brick 1x3 with Hole]
- 1x [Grey Technic Pin 60]
- 2x [Red Technic Pin]

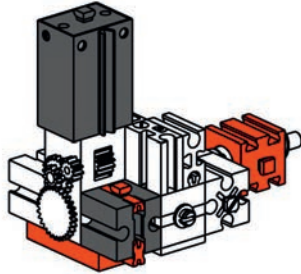
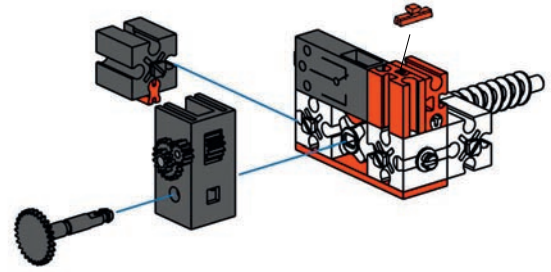
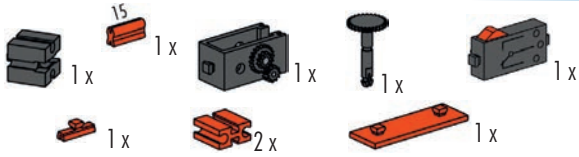
60 mm



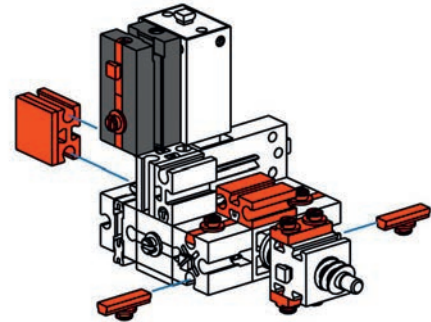
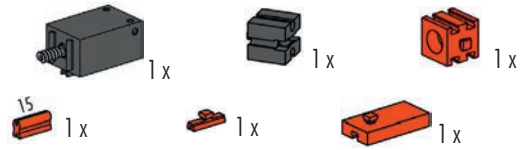
19

- 2x [Grey Technic Brick 2x4 with Hole]
- 2x [Grey Technic Brick 2x4 with Hole]
- 1x [Red Technic Brick 1x3 with Hole]
- 1x [Grey Technic Pin 15]
- 1x [Red Technic Pin]
- 2x [Red Technic Pin]
- 2x [Red Technic Pin]
- 1x [Grey Technic Pin 15]

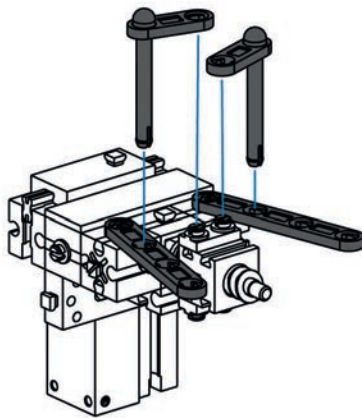
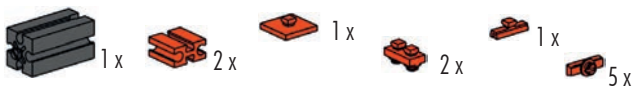
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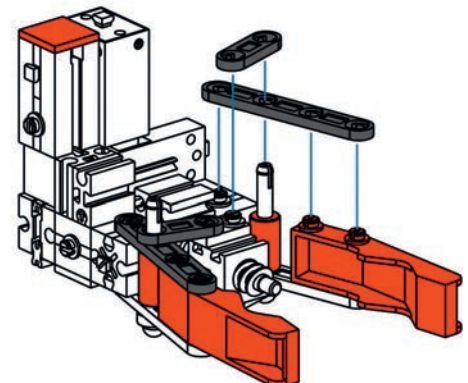
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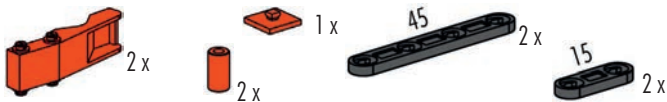
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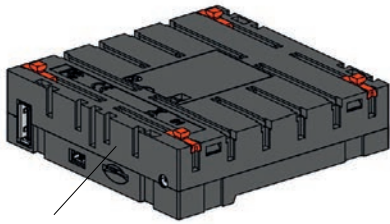


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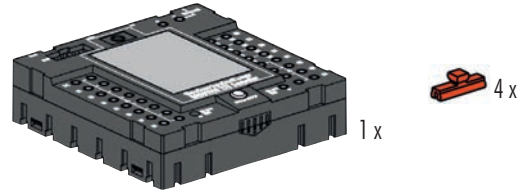


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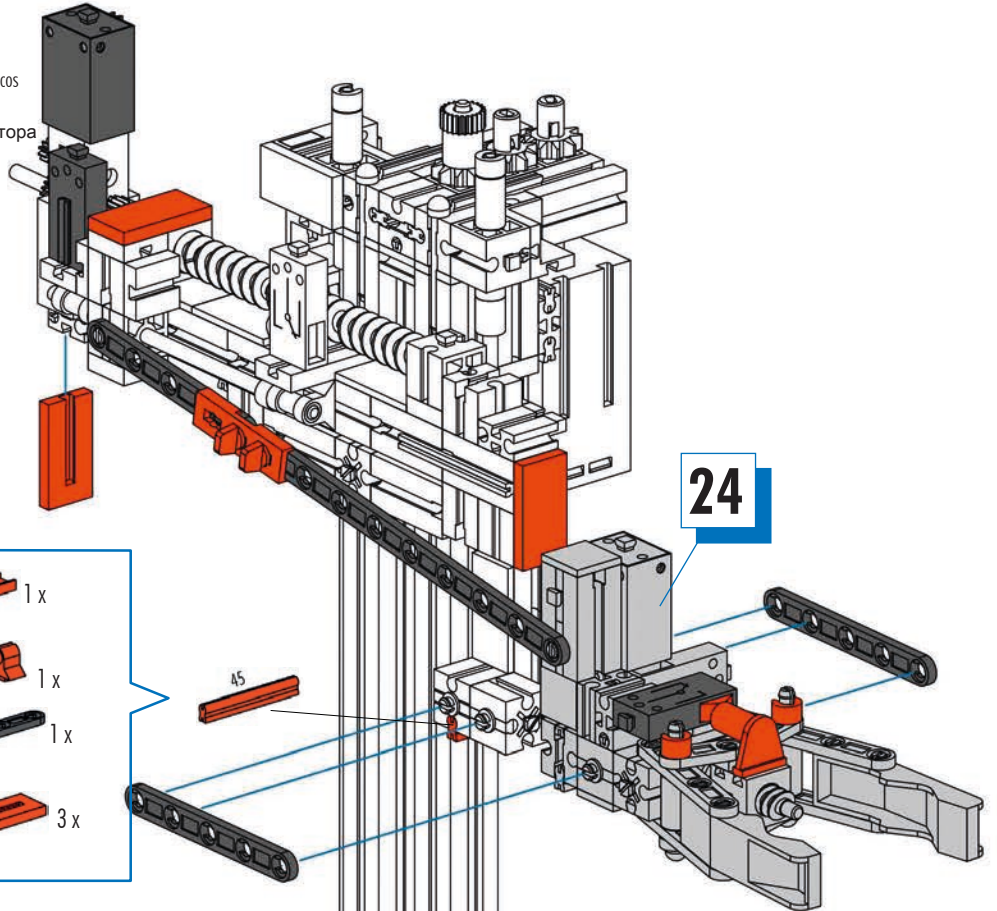




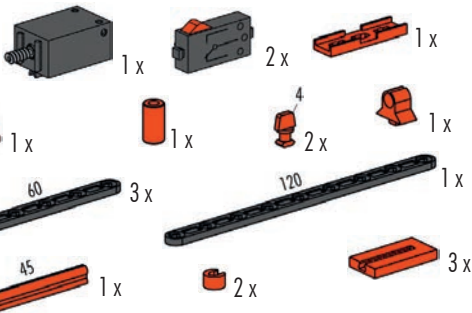
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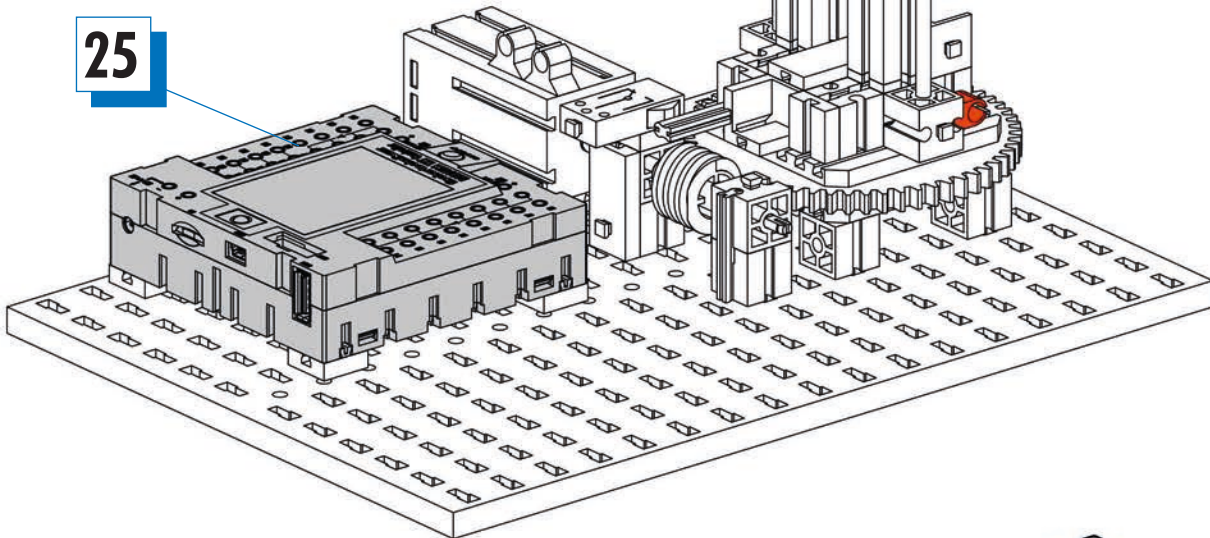
- ROBOTICS TXT Controller (Art.-Nr. 522429) nicht im Baukasten enthalten
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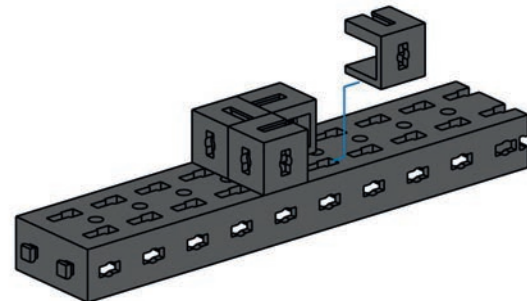
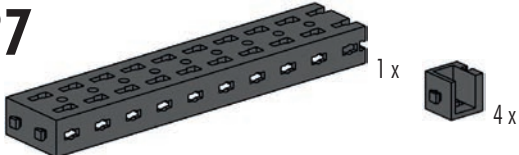
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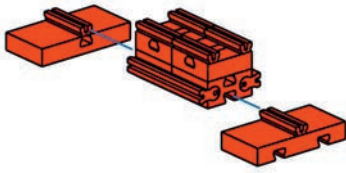






25





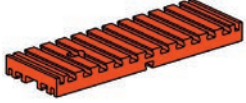


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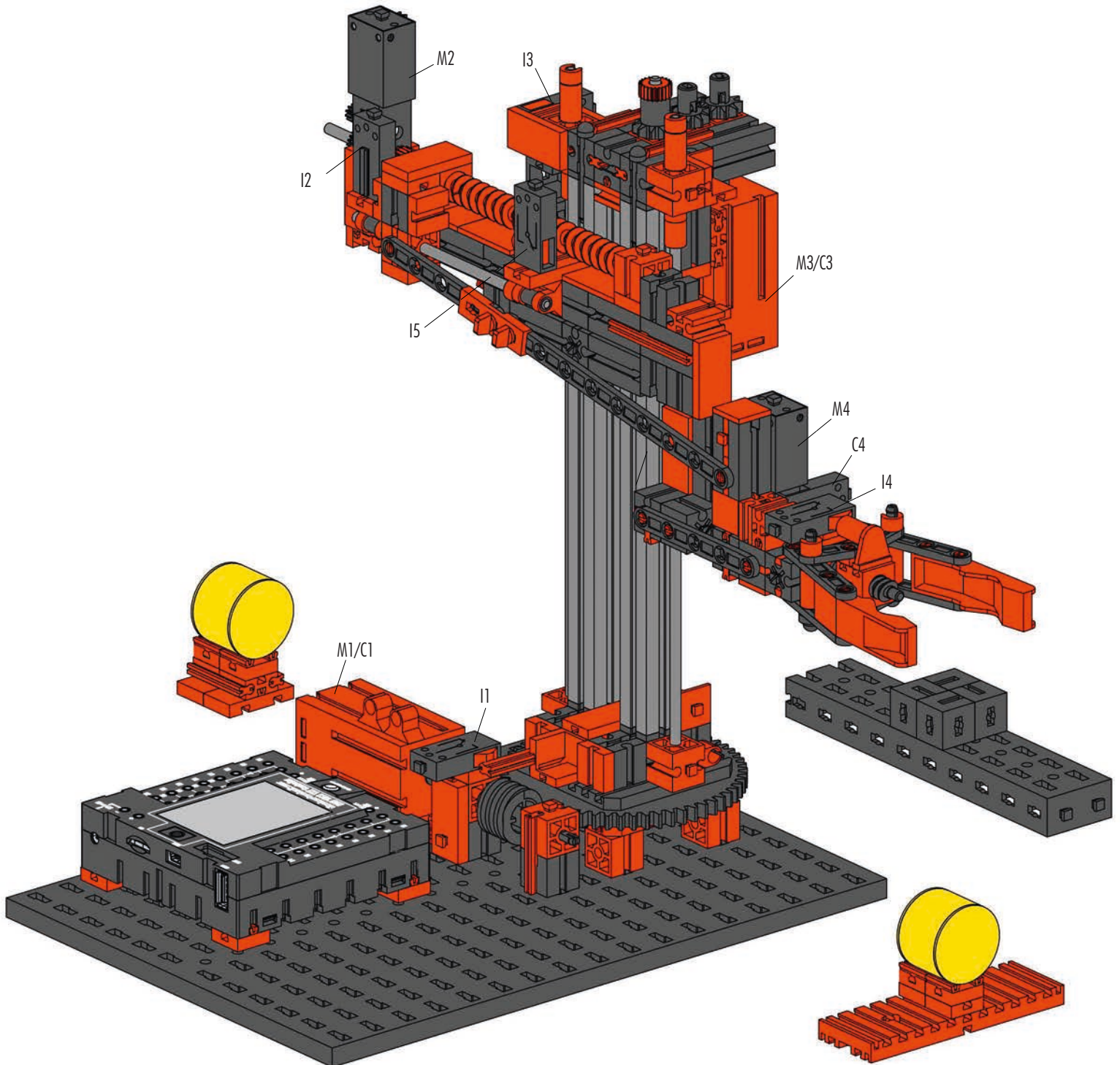
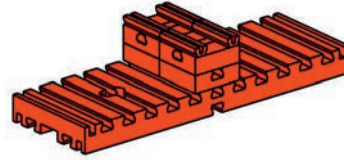




28  2x  2x  2x  2x

 6x  2x

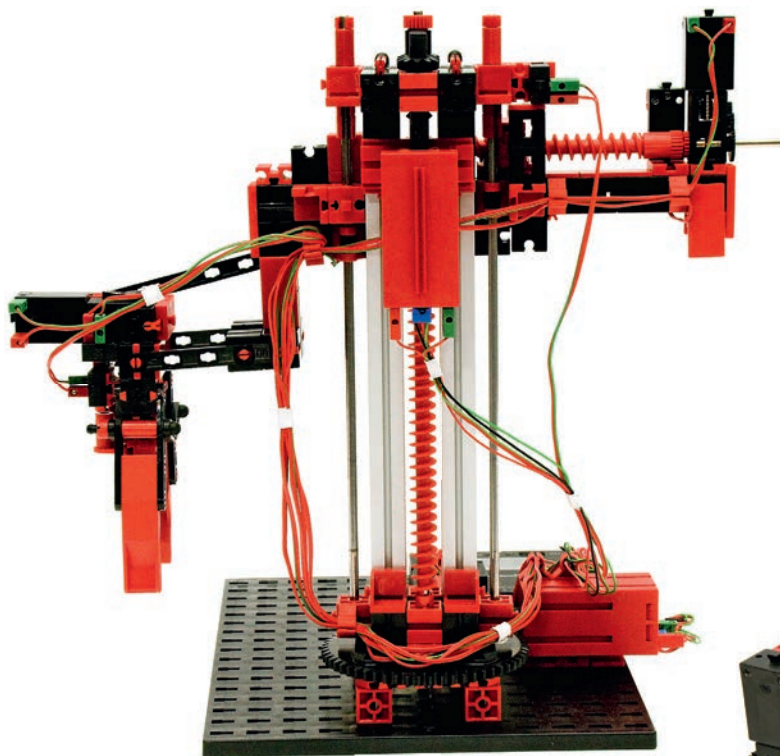
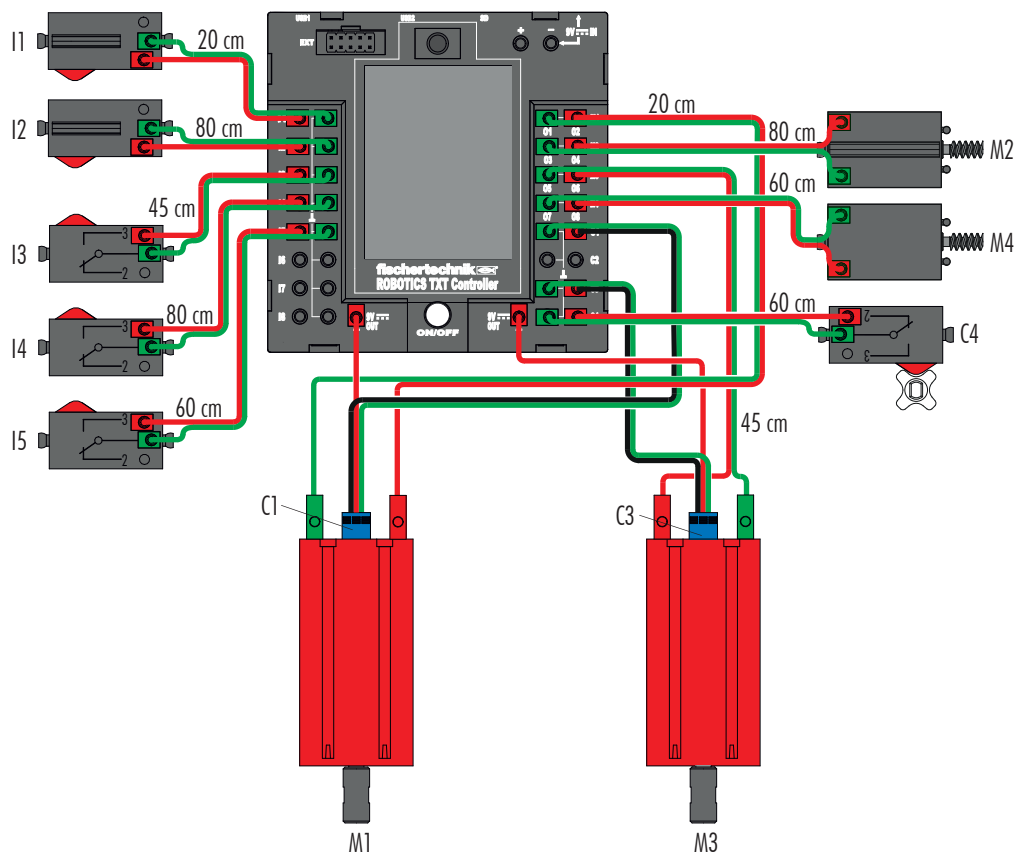
29  1x  4x  4x



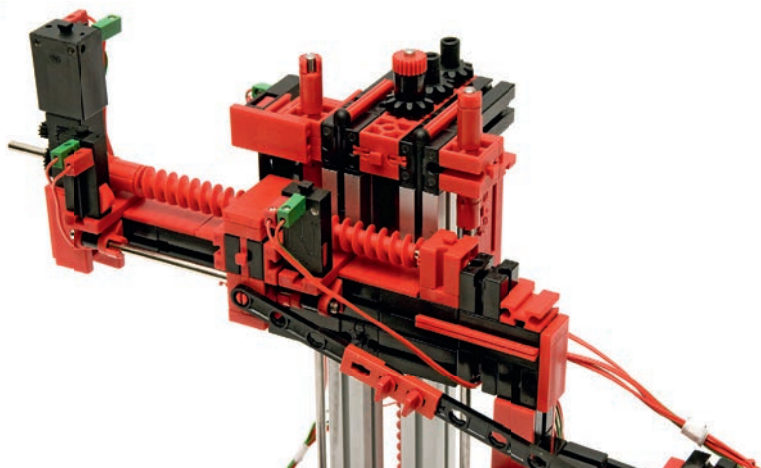
Schaltplan
Circuit diagram
Plan électrique

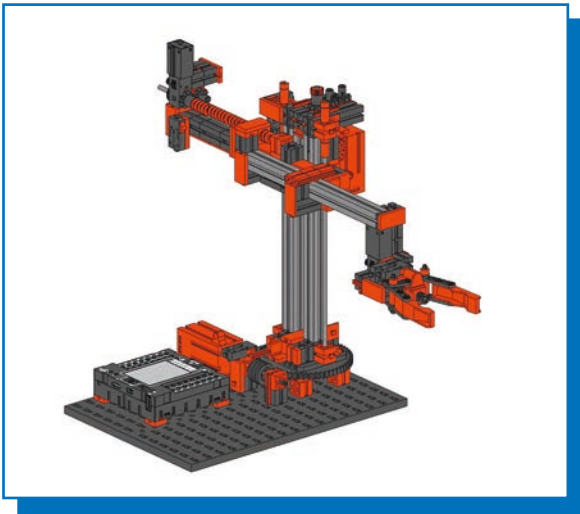
Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

Schema elettrico
Схема подключения
电路图



- Informationen zur Programmierung des Modells: Siehe didaktisches Begleitmaterial.
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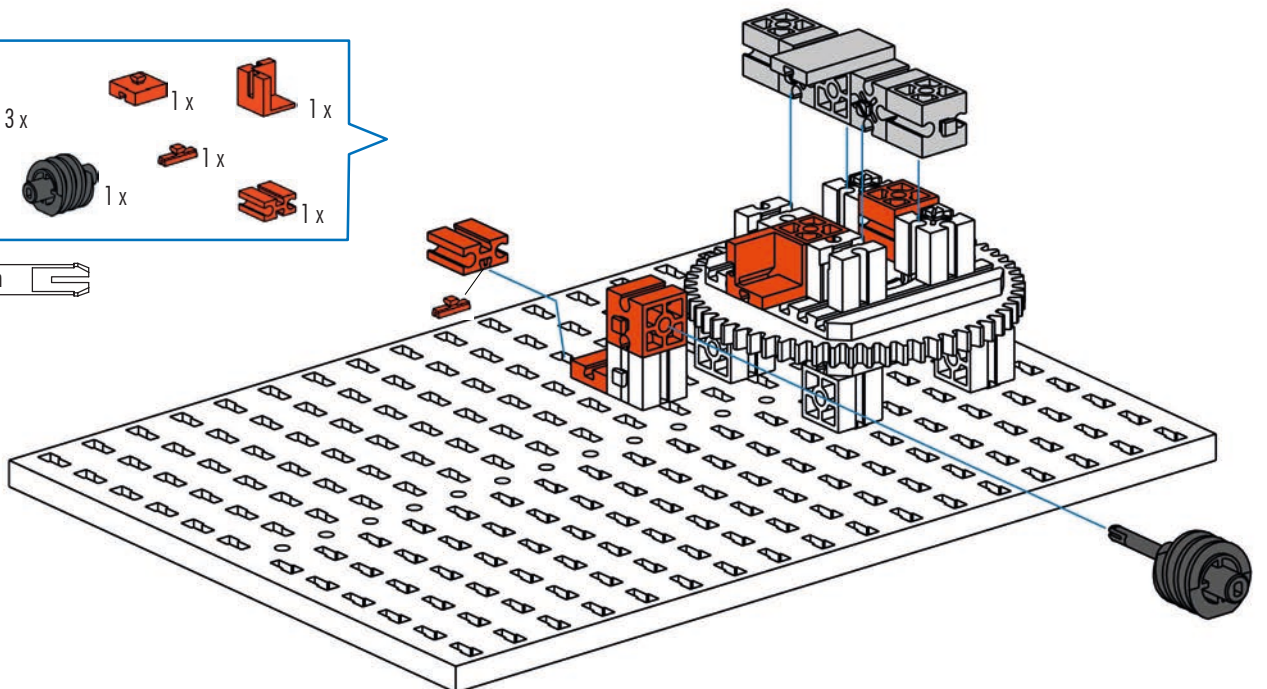
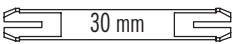
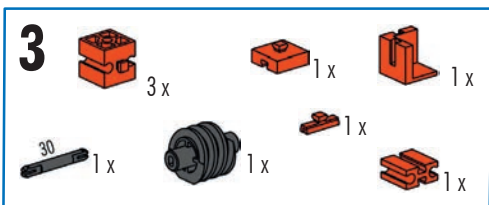
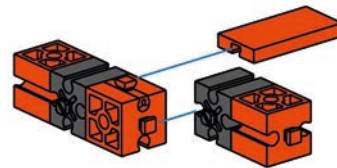
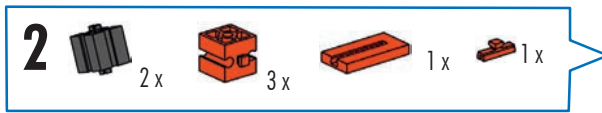
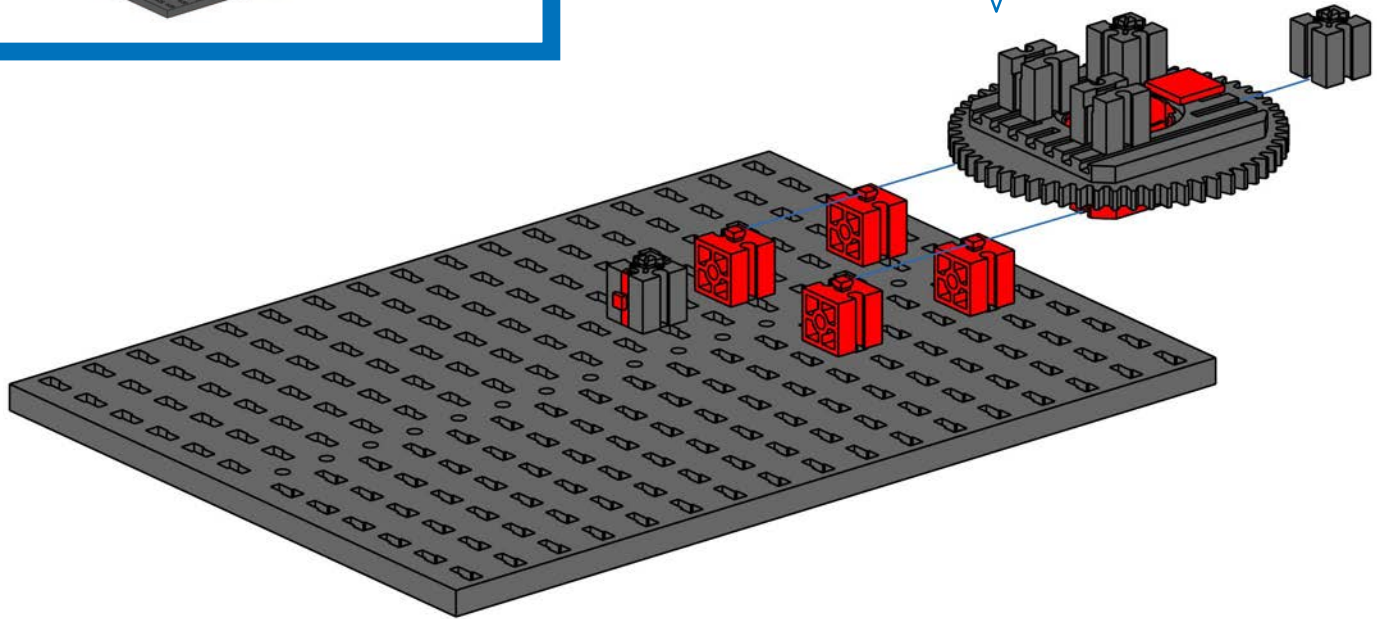
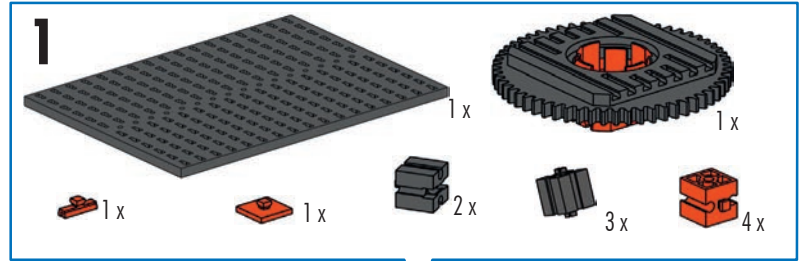


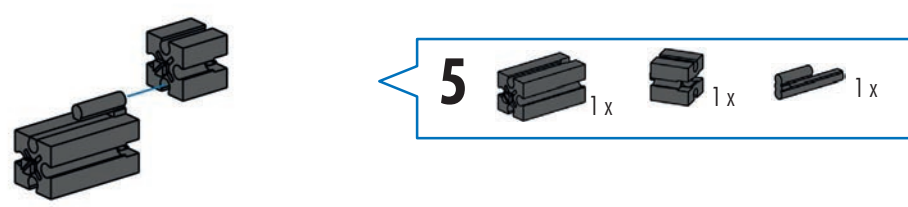
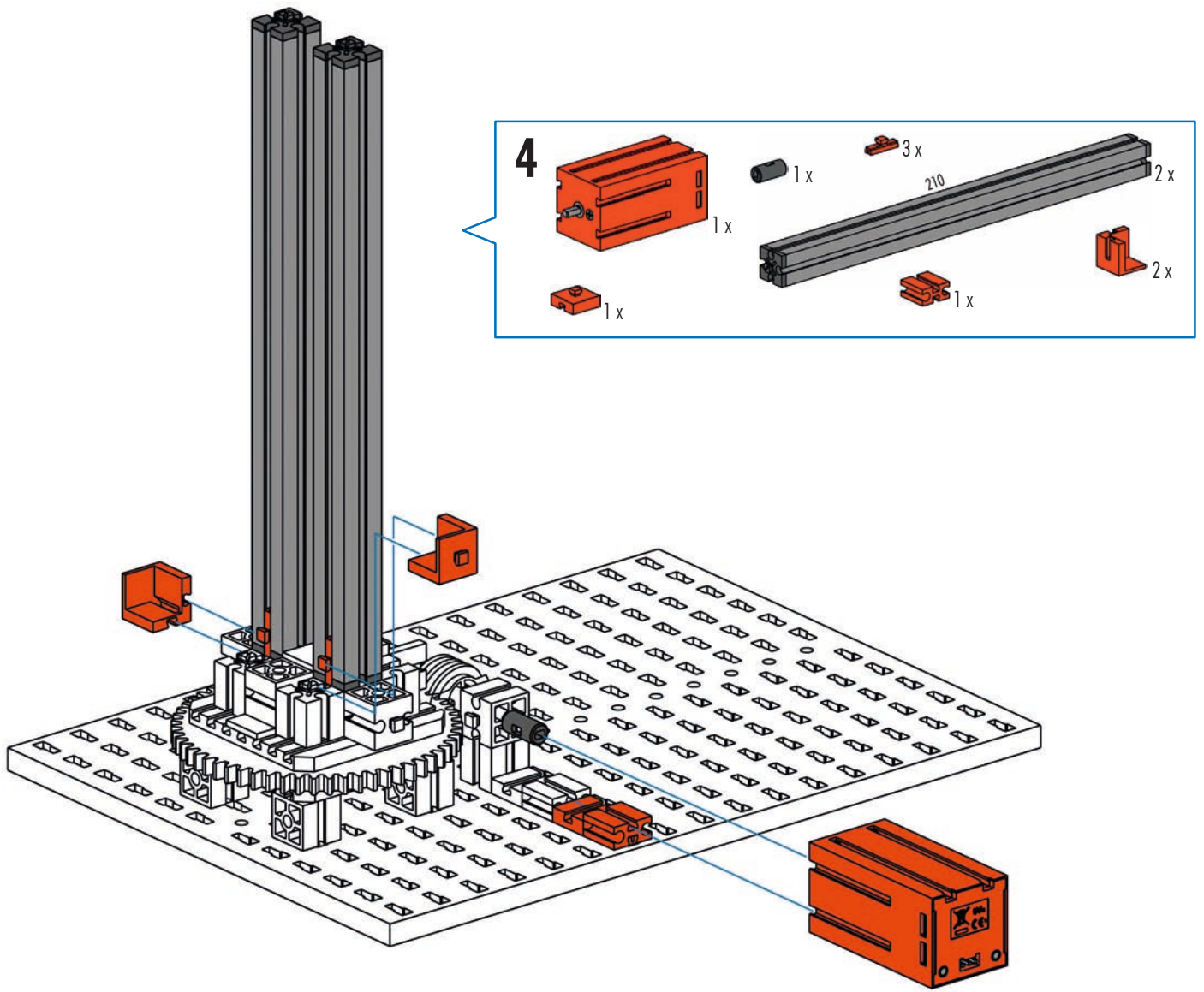


3-Achs-Roboter
3-axis robot
Robot à 3 axes

3-assige robot
Robot de 3 ejes
Robò de 3 eixos

Robot a 3 assi
 Трёхосный робот
 3 轴机器人

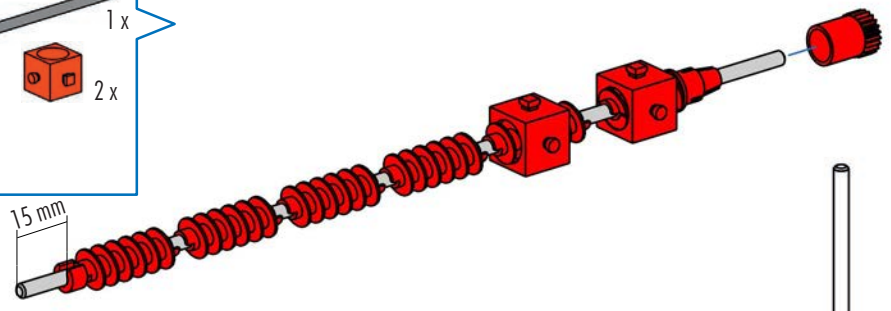




7

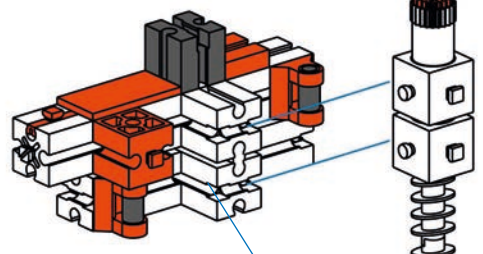
- 1x [Red bush]
- 1x [Red bush]
- 1x [Grey axle, 260]
- 1x [Red bush]
- 1x [Red bush]
- 5x [Red spring]
- 2x [Red bush]

15 mm



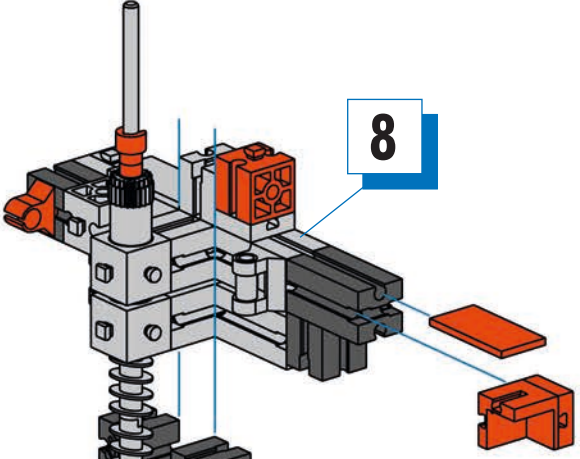
8

- 1x [Grey bush]
- 1x [Red plate, 1x2]
- 1x [Red bush]
- 1x [Red bush]
- 1x [Red bush]
- 1x [Red bush]
- 2x [Red bush]
- 1x [Black bush]



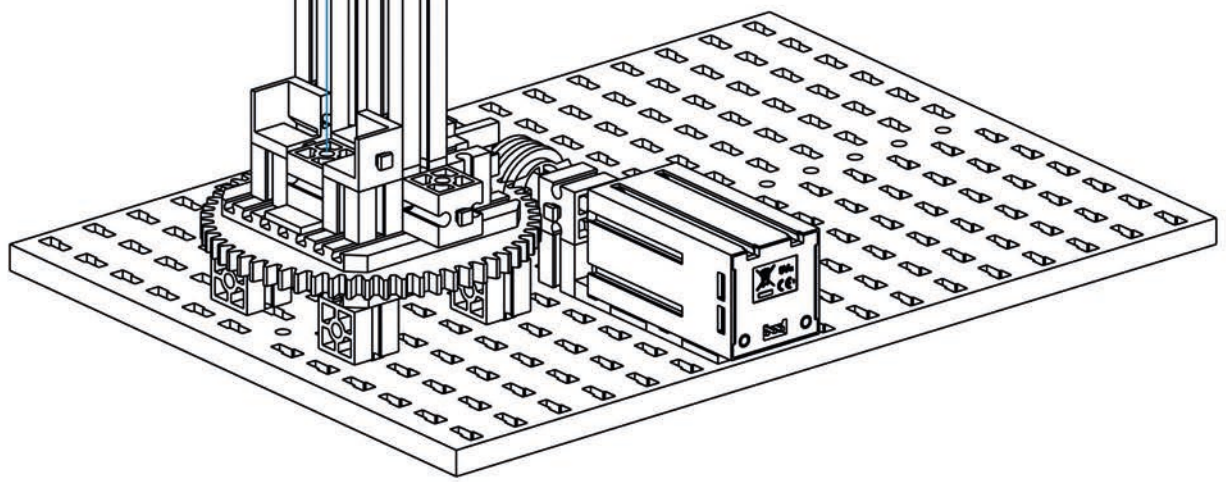
6

8








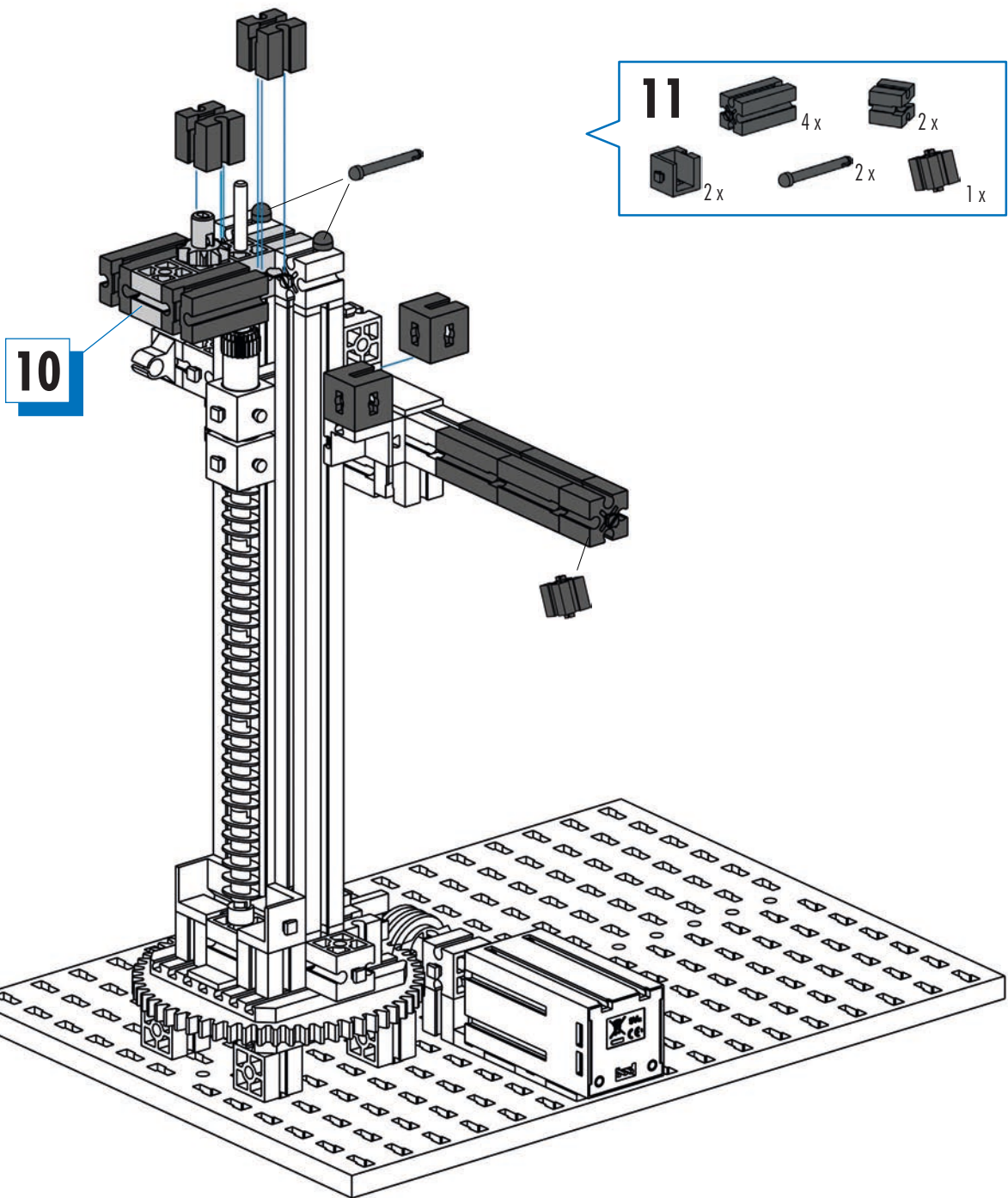
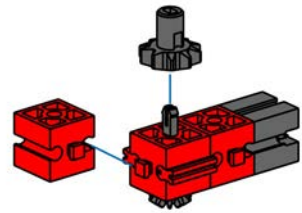
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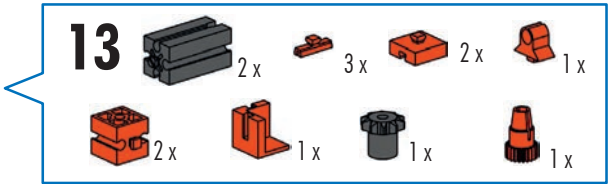
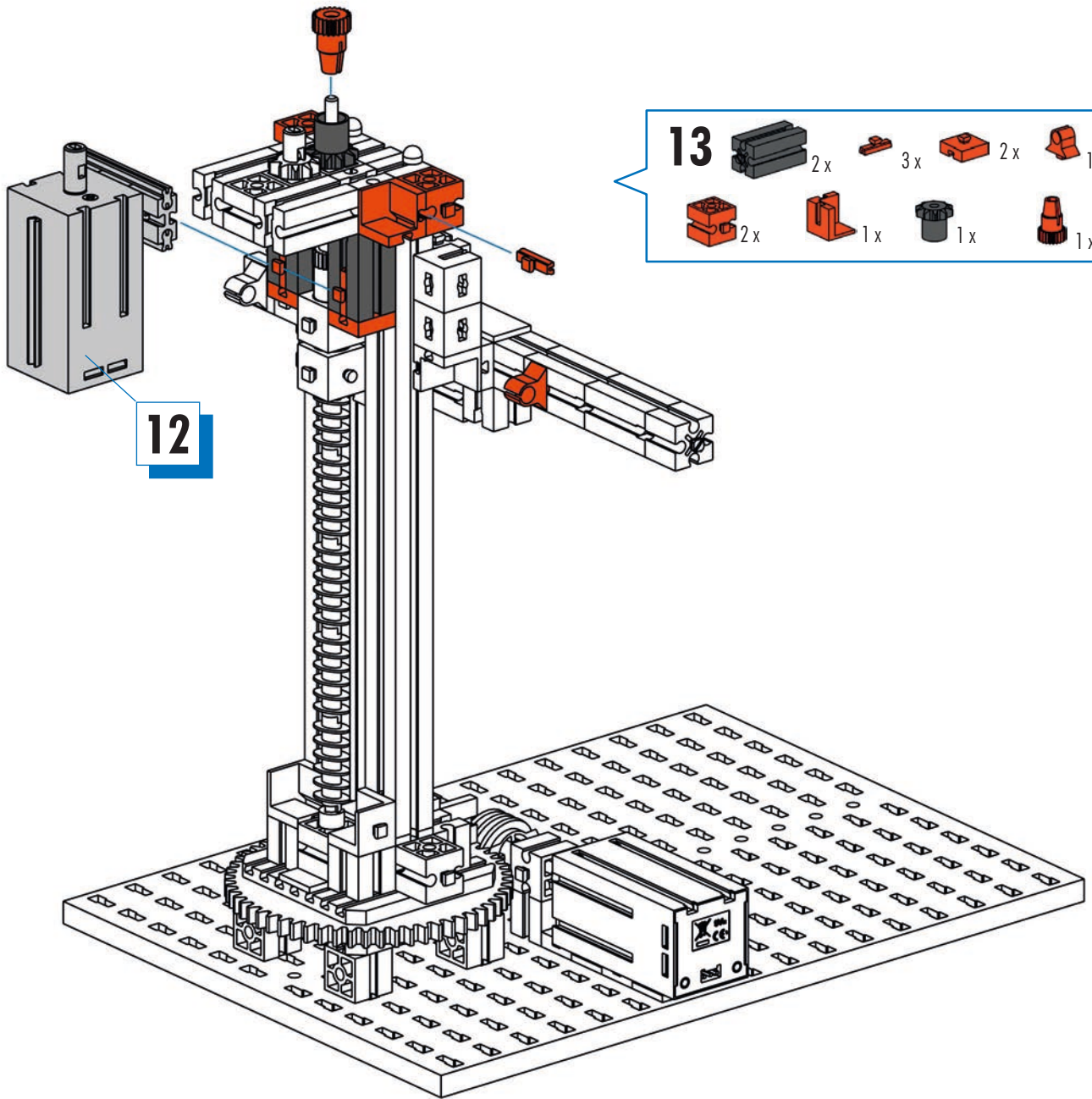
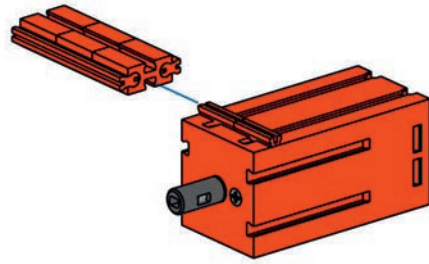
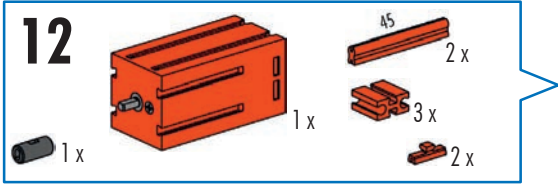
- 1x [Grey bush]
- 3x [Grey bush]
- 1x [Grey bush]
- 1x [Red bush]
- 2x [Red bush]
- 1x [Red plate, 1x2]
- 1x [Red bush]
- 1x [Red bush]
- 1x [Red bush]
- 1x [Red bush]
- 1x [Red bush]



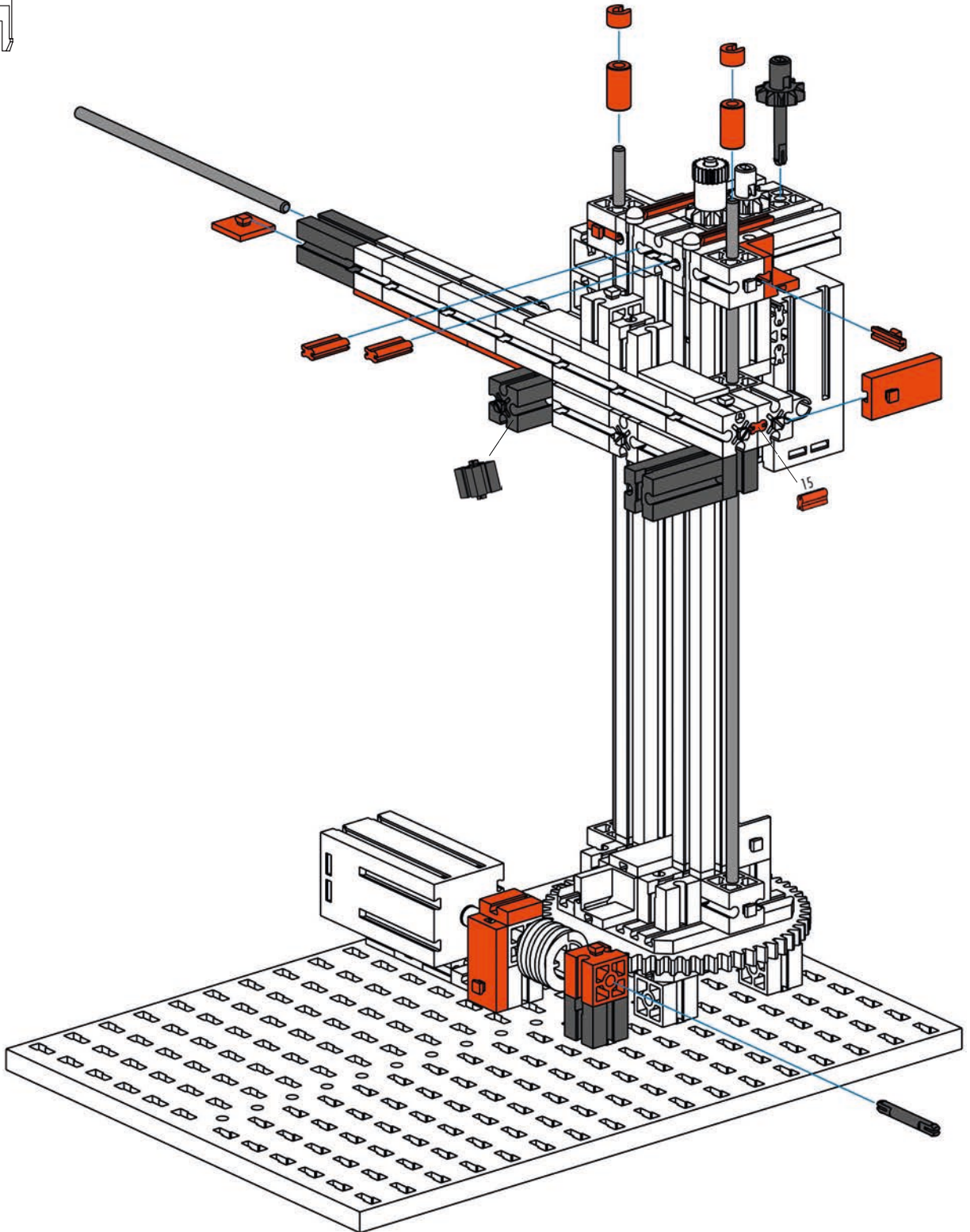
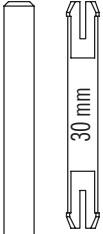
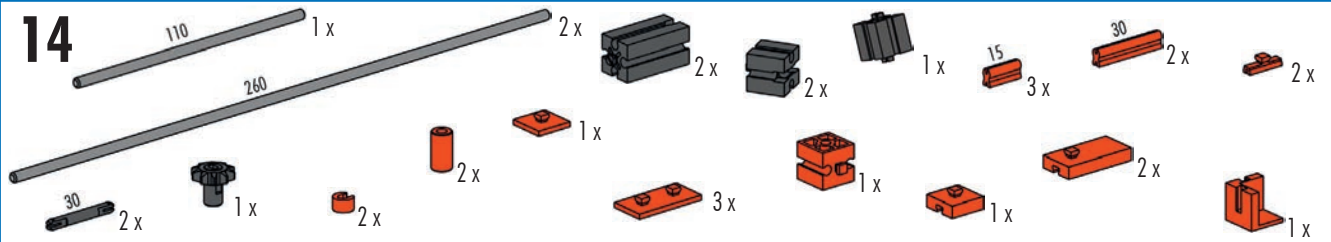
260 mm

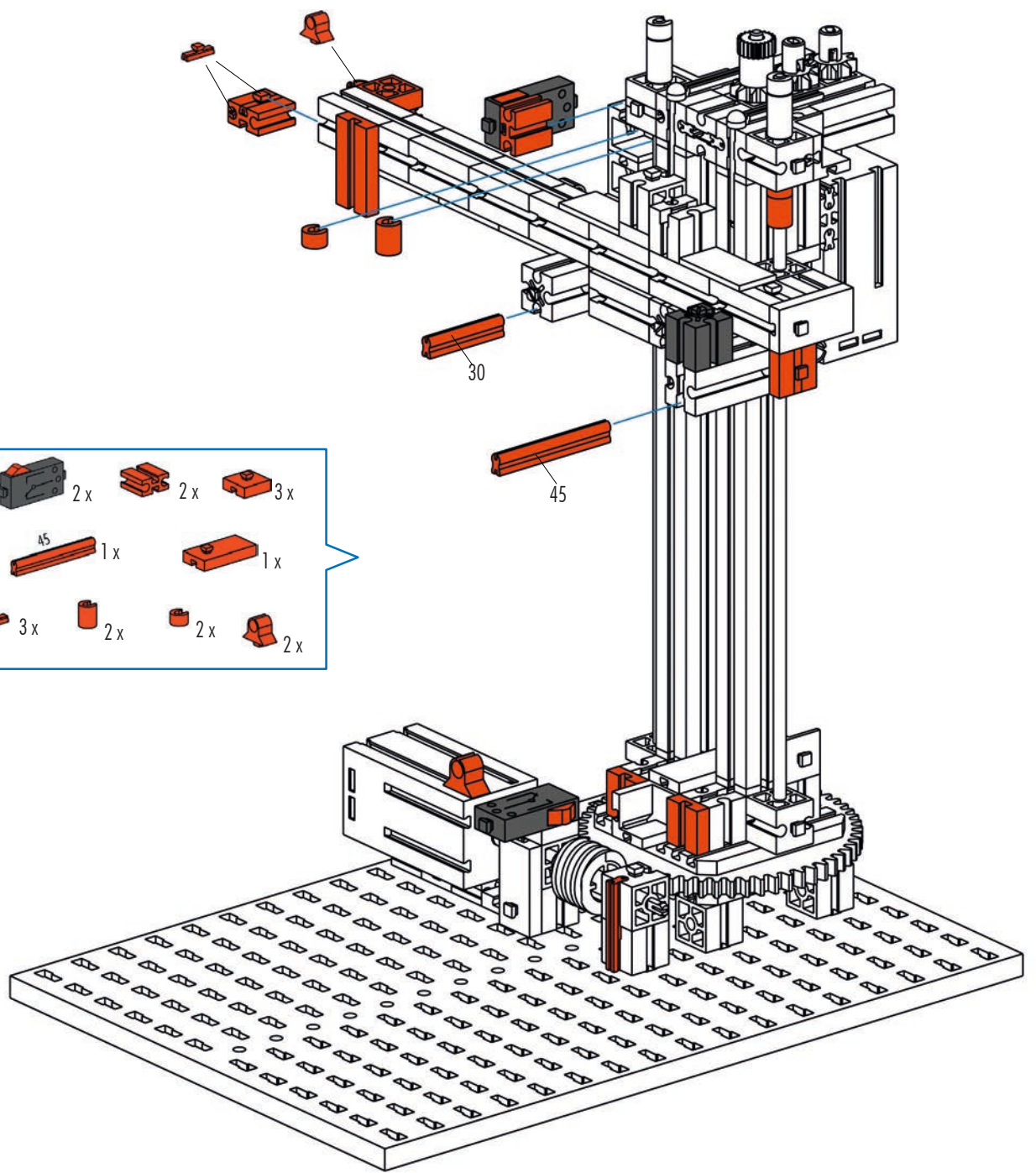
- 10**  1x  3x  1x  1x  2x



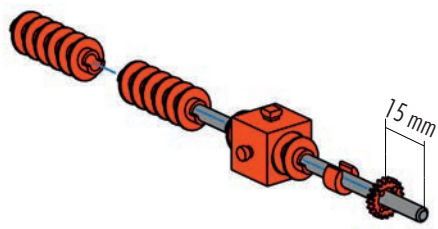


14





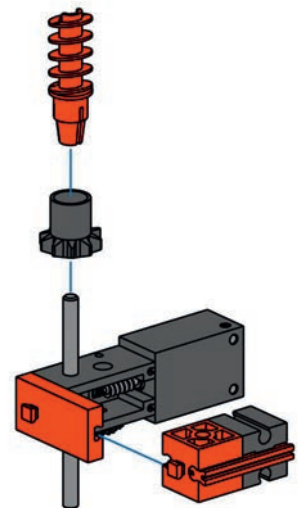
- 15**
- 1x [Grey Technic Axle]
 - 2x [Grey Technic Motor]
 - 2x [Orange Technic Connector]
 - 3x [Orange Technic Pin]
 - 2x [Orange Technic Axle 30]
 - 1x [Orange Technic Axle 45]
 - 1x [Orange Technic Plate]
 - 1x [Orange Technic Connector]
 - 3x [Orange Technic Pin]
 - 2x [Orange Technic Pin]
 - 2x [Orange Technic Pin]
 - 2x [Orange Technic Pin]





- 16**
- 1x [Grey Technic Axle 125]
 - 3x [Red Spring]
 - 1x [Grey Technic Pin]
 - 1x [Red Technic Connector]
 - 1x [Red Technic Pin]

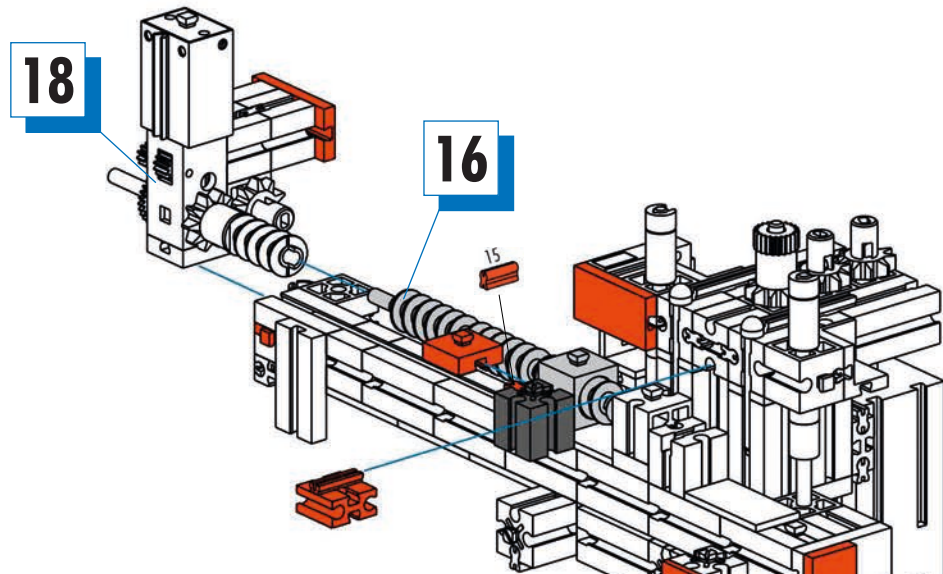
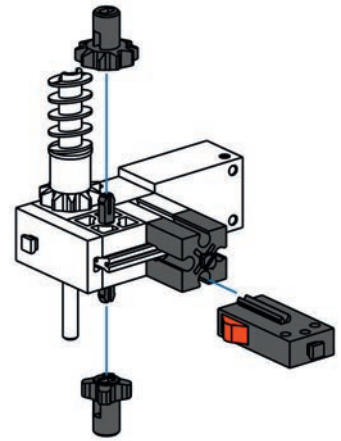


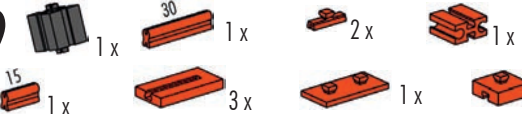
- 17**
- 1x [Grey Technic Axle]
 - 1x [Grey Technic Motor]
 - 1x [Grey Technic Motor]
 - 1x [Red Spring]
 - 1x [Red Technic Plate]
 - 1x [Grey Technic Connector]
 - 1x [Red Technic Connector]
 - 1x [Orange Technic Axle 30]
 - 1x [Grey Technic Pin]

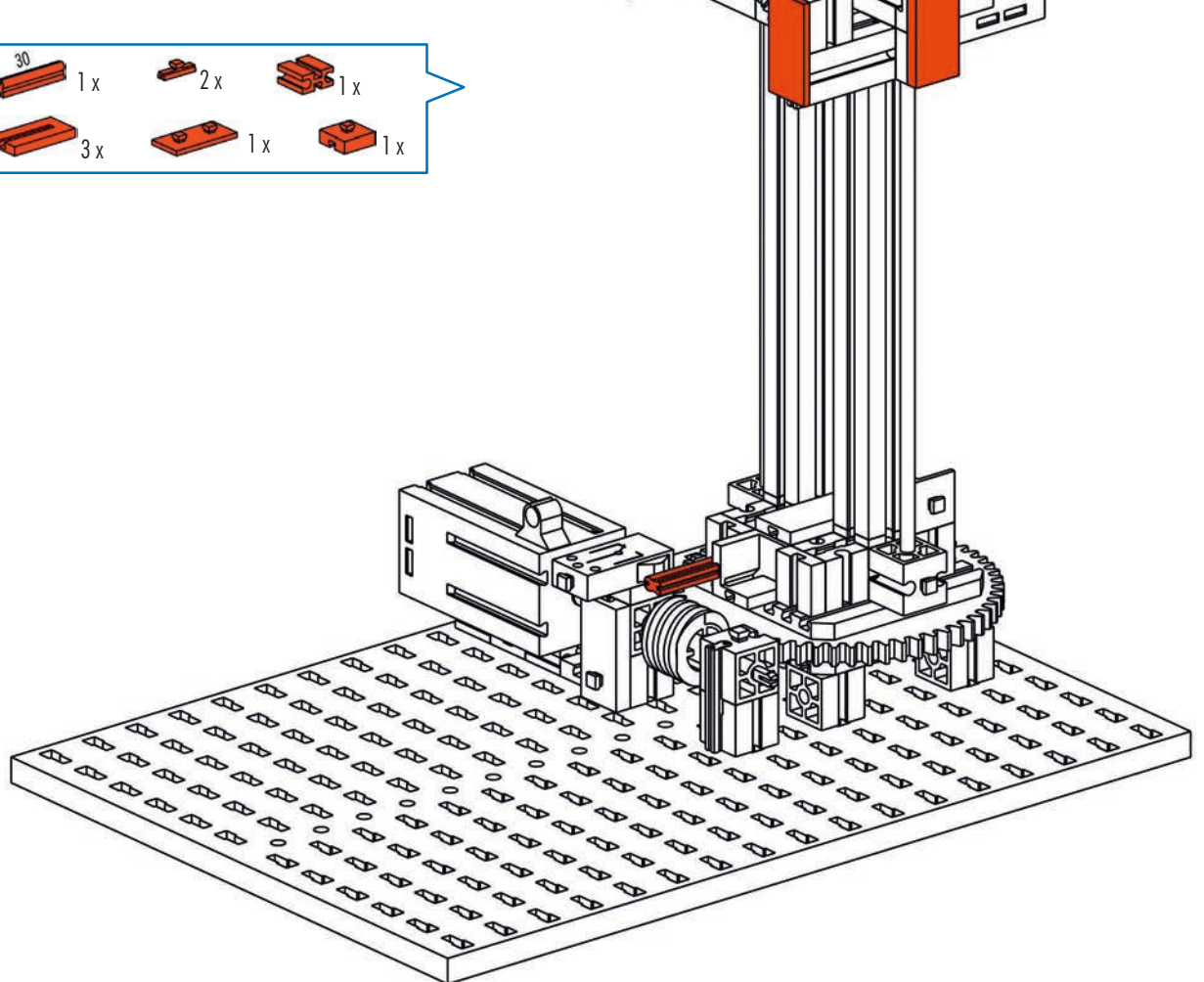


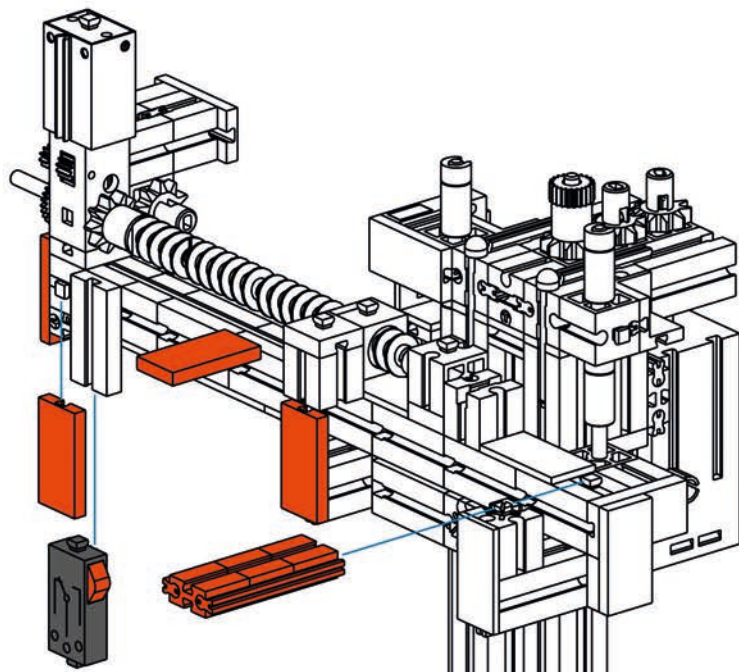
18  1x 1x 1x 1x 30 1x

 30 mm



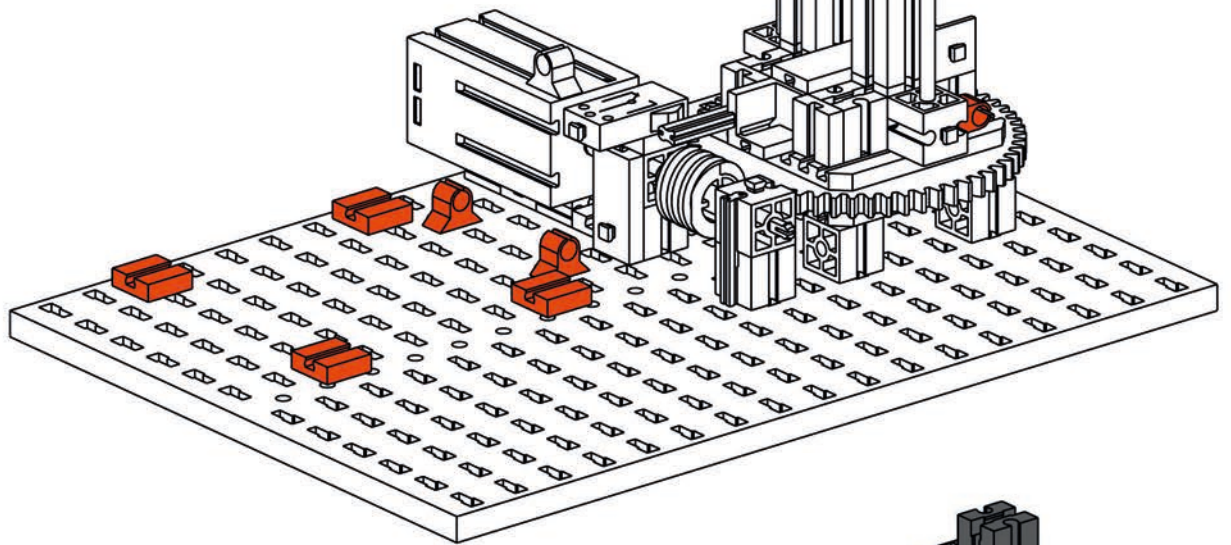
19  1x 1x 2x 1x 1x 1x 1x 1x





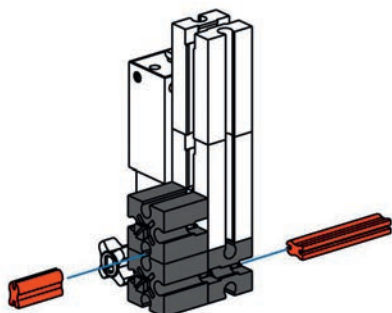
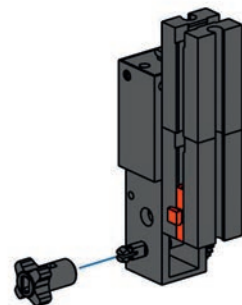
20

- 1x [Grey motor]
- 2x [Orange beam 45]
- 3x [Orange connector]
- 4x [Orange pin]
- 4x [Orange beam]
- 3x [Orange pin]



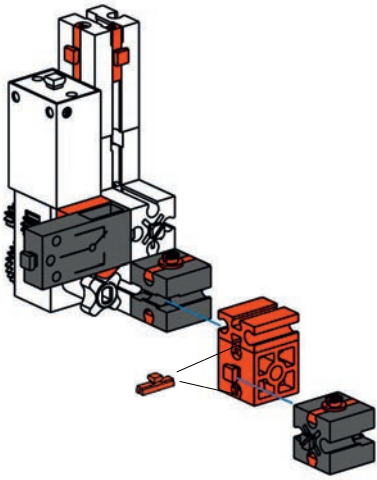
21

- 1x [Grey motor]
- 1x [Grey motor]
- 1x [Grey pin]
- 2x [Grey beam]
- 1x [Grey pin]
- 1x [Orange pin]



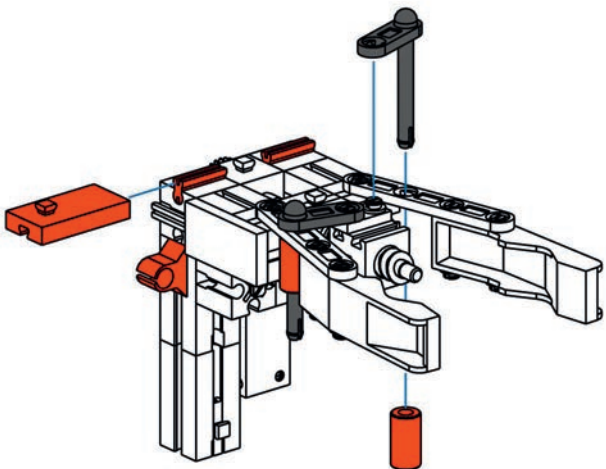
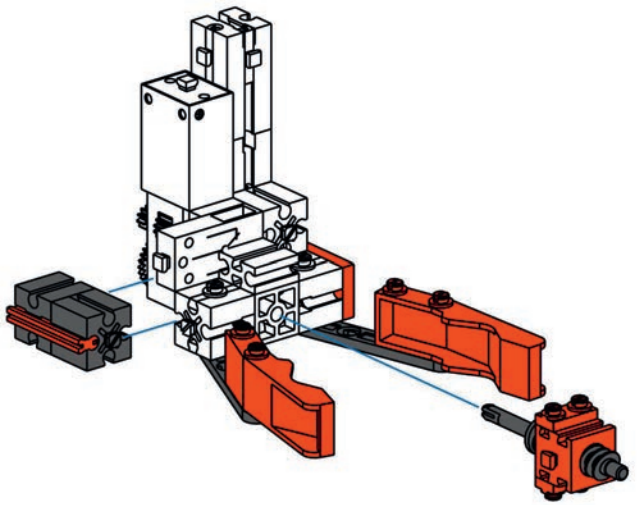
22

- 2x [Grey beam]
- 1x [Grey pin]
- 1x [Orange beam 30]
- 1x [Orange beam 15]

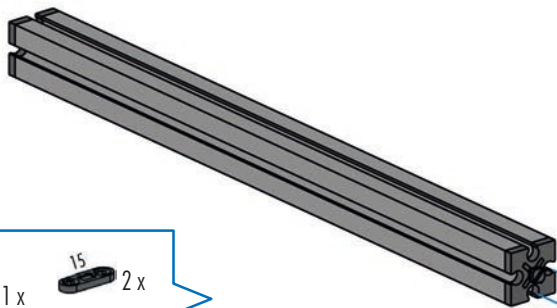


- 23** 1x 2x 1x 1x 1x 4x 4x

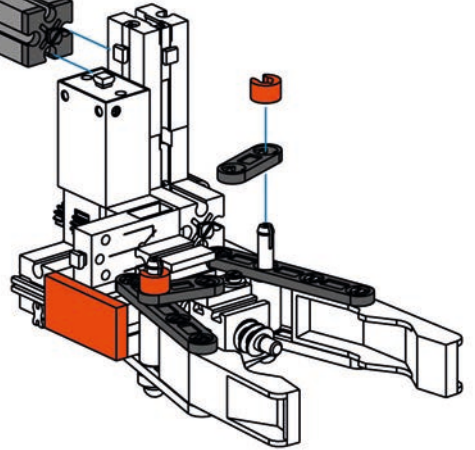
- 24** 1x 1x 30 1x 2x 2x 1x 1x 1x 45 2x

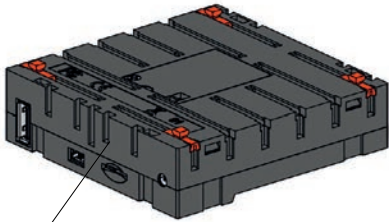


- 25** 1x 2x 15 2x 2x 15 2x 1x

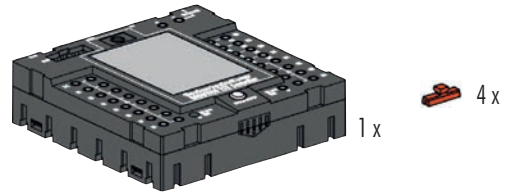


- 26** 1x 210 1x 15 2x 2x 45 2x

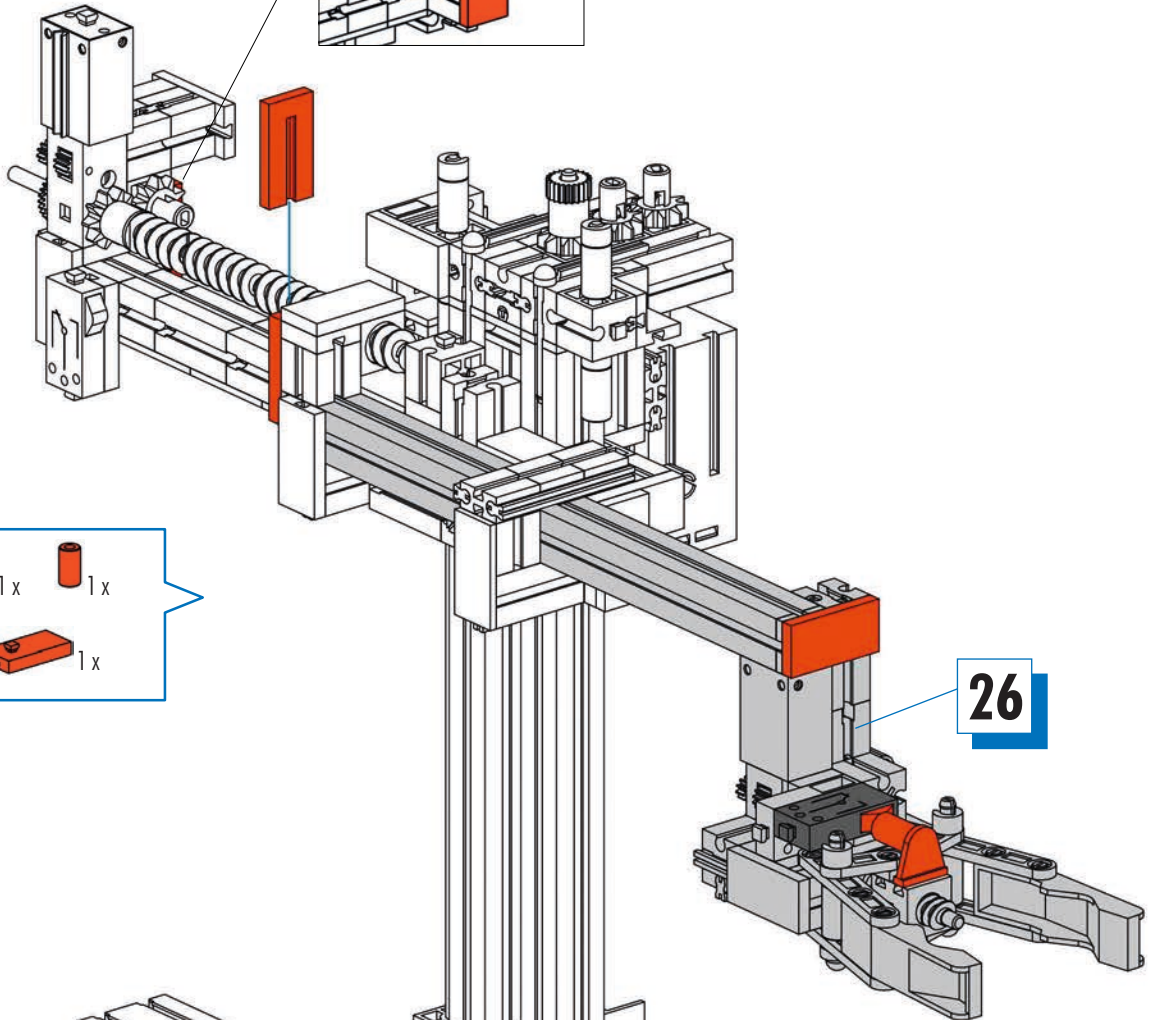
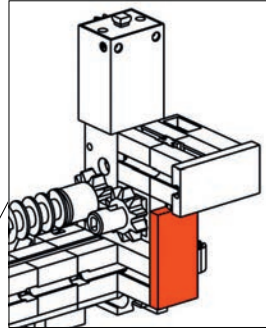




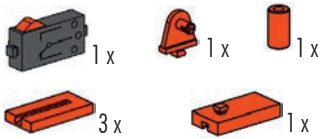
27



- ROBOTICS TXT Controller (Art.-Nr. 522429) nicht im Baukasten enthalten
- ROBOTICS TXT Controller (Art.-Nr. 522429) not included in the modular kit
- ROBOTICS TXT Controller (Art.-Nr. 522429) n'est pas contenue dans le kit
- ROBOTICS TXT Controller (Art.-Nr. 522429) niet in de bouwdoos opgenomen
- ROBOTICS TXT Controller (Art.-Nr. 522429) no está incluido en el conjunto
- ROBOTICS TXT Controller (Art.-Nr. 522429) não contido no sistema de construção por blocos
- ROBOTICS TXT Controller (Art.-Nr. 522429) non incluso nella scatola di montaggio
- ROBOTICS TXT Controller (Art.-Nr. 522429) не входит в комплект конструктора
- ROBOTICS TXT Controller (Art.-Nr. 522429) 不包含在组件

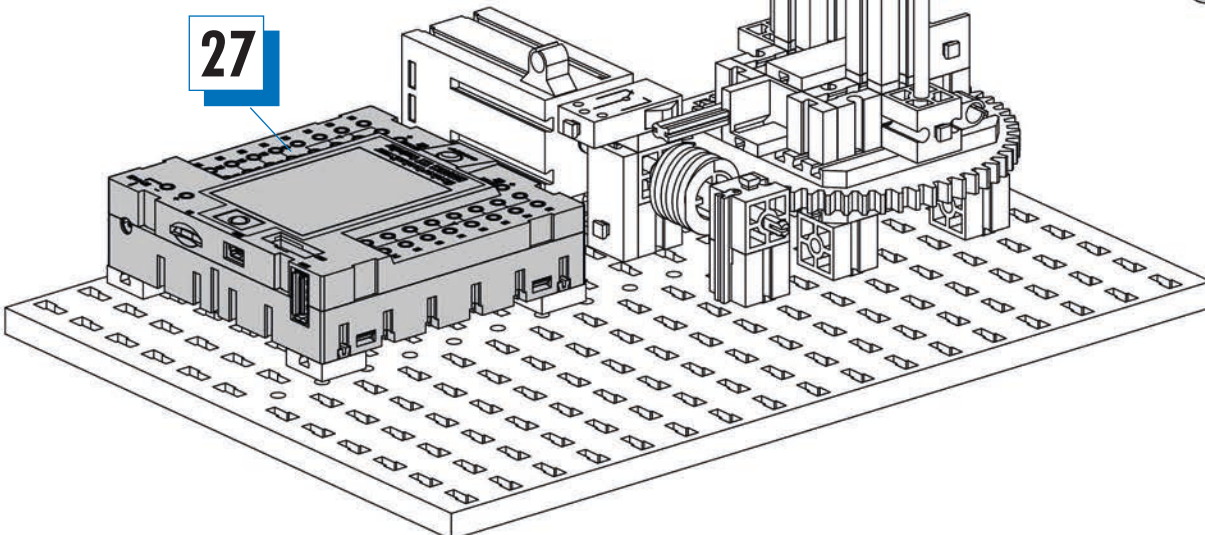


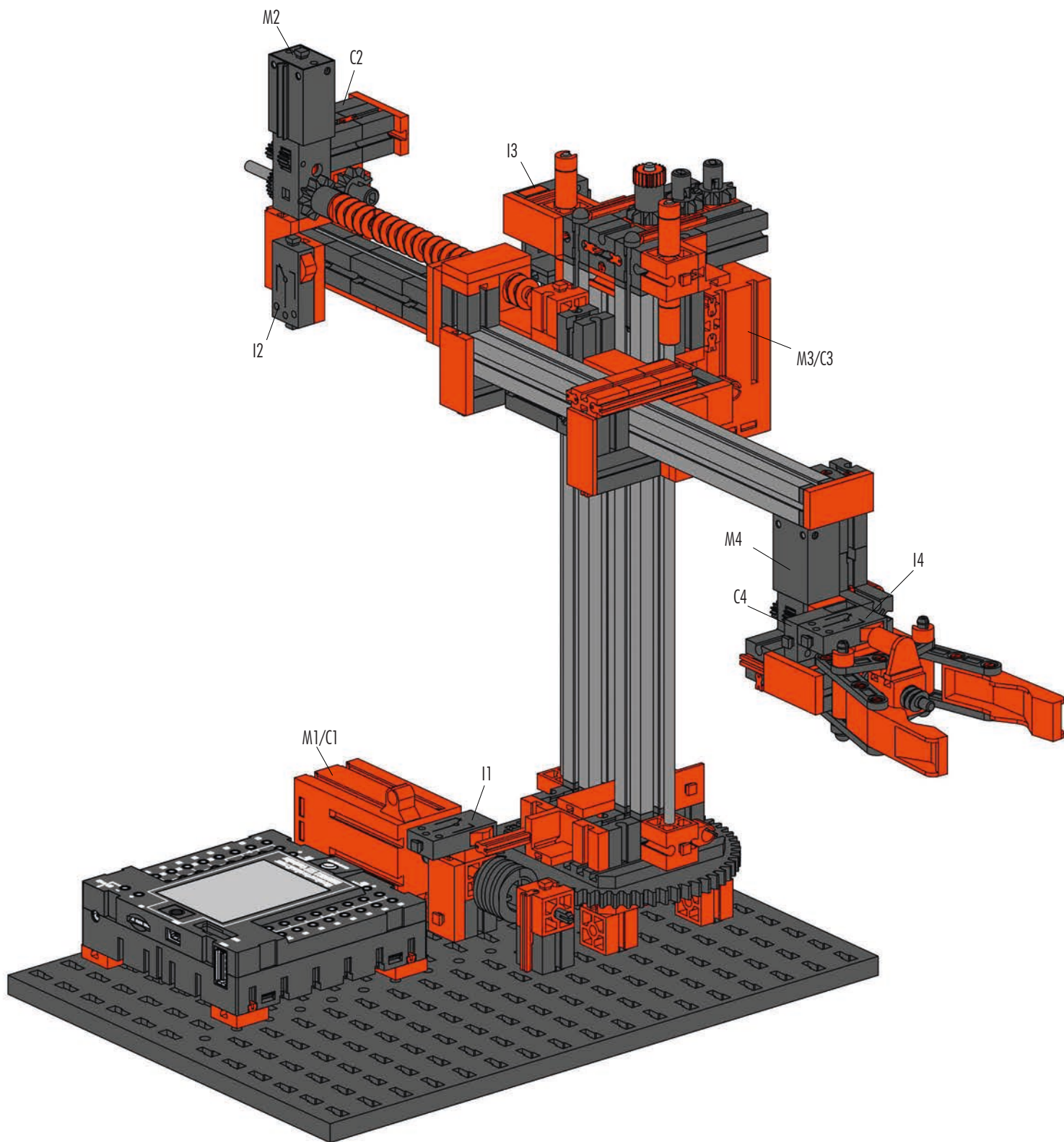
28



26

27

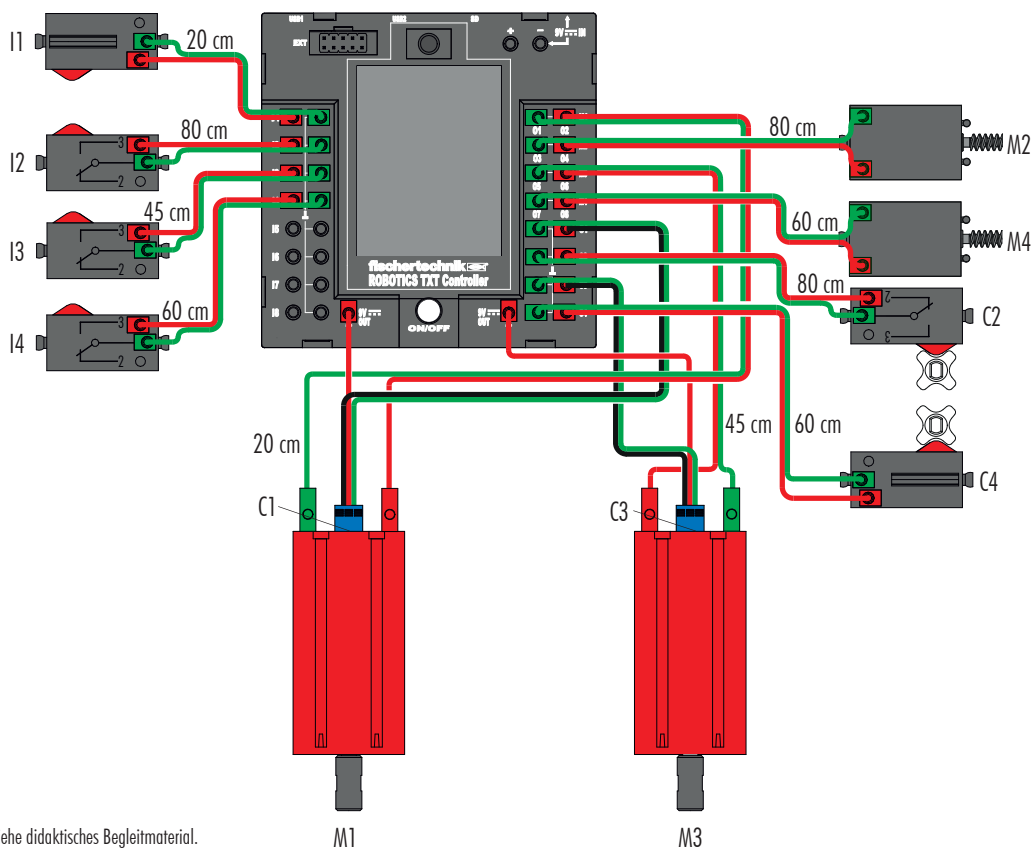




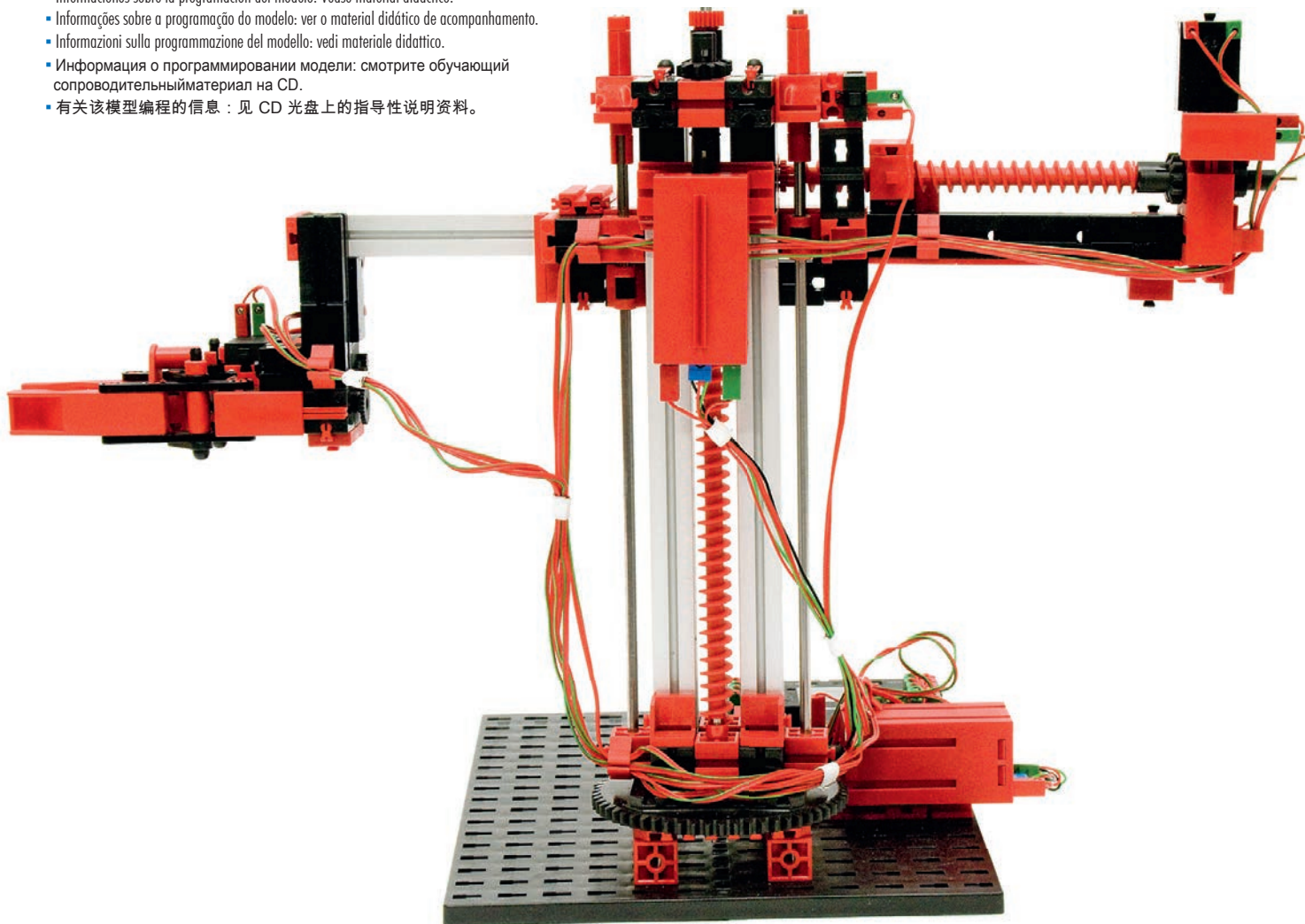
Schaltplan
Circuit diagram
Plan électrique

Schakelschema
Diagrama de circuitos
Plano elétrico de ligação

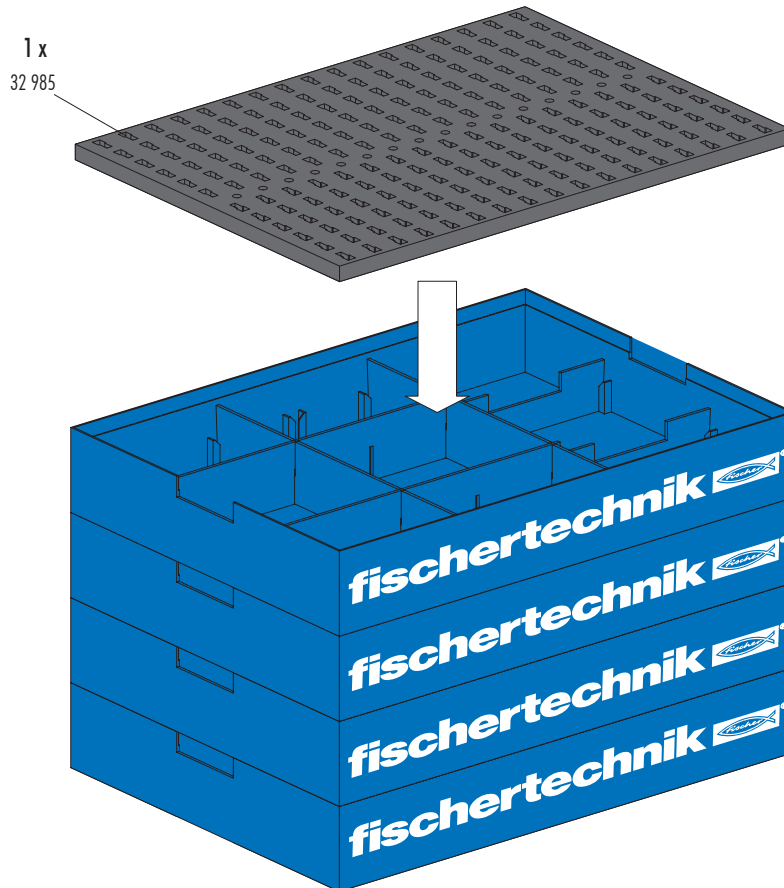
Schema elettrico
Схема подключения
电路图



- Informationen zur Programmierung des Modells: Siehe didaktisches Begleitmaterial.
- Information on programming model: See related instructional material.
- Informations concernant la programmation de la maquette : voir le matériel d'accompagnement didactique.
- Informatie over de programmering van het model: Zie het didactisch begeleidend materiaal.
- Informaciones sobre la programación del modelo: Véase material didáctico.
- Informações sobre a programação do modelo: ver o material didático de acompanhamento.
- Informazioni sulla programmazione del modello: vedi materiale didattico.
- Информация о программировании модели: смотрите обучающий сопроводительный материал на CD.
- 有关该模型编程的信息：见 CD 光盘上的指导性说明资料。



Empfohlene Aufbewahrung:	4 x Aufbewahrungssystem Art.-Nr. 94828
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Stockage conseillé :	4 x système de stockage Art n° 94828
Bewaaradvies:	4 x bewaarsysteem art.-nr. 94828
Consejos para guardar el producto:	4 x almacenamiento Art. N° 94828
Conservação recomendada:	4 x sistema de conservação n.º de art. 94828
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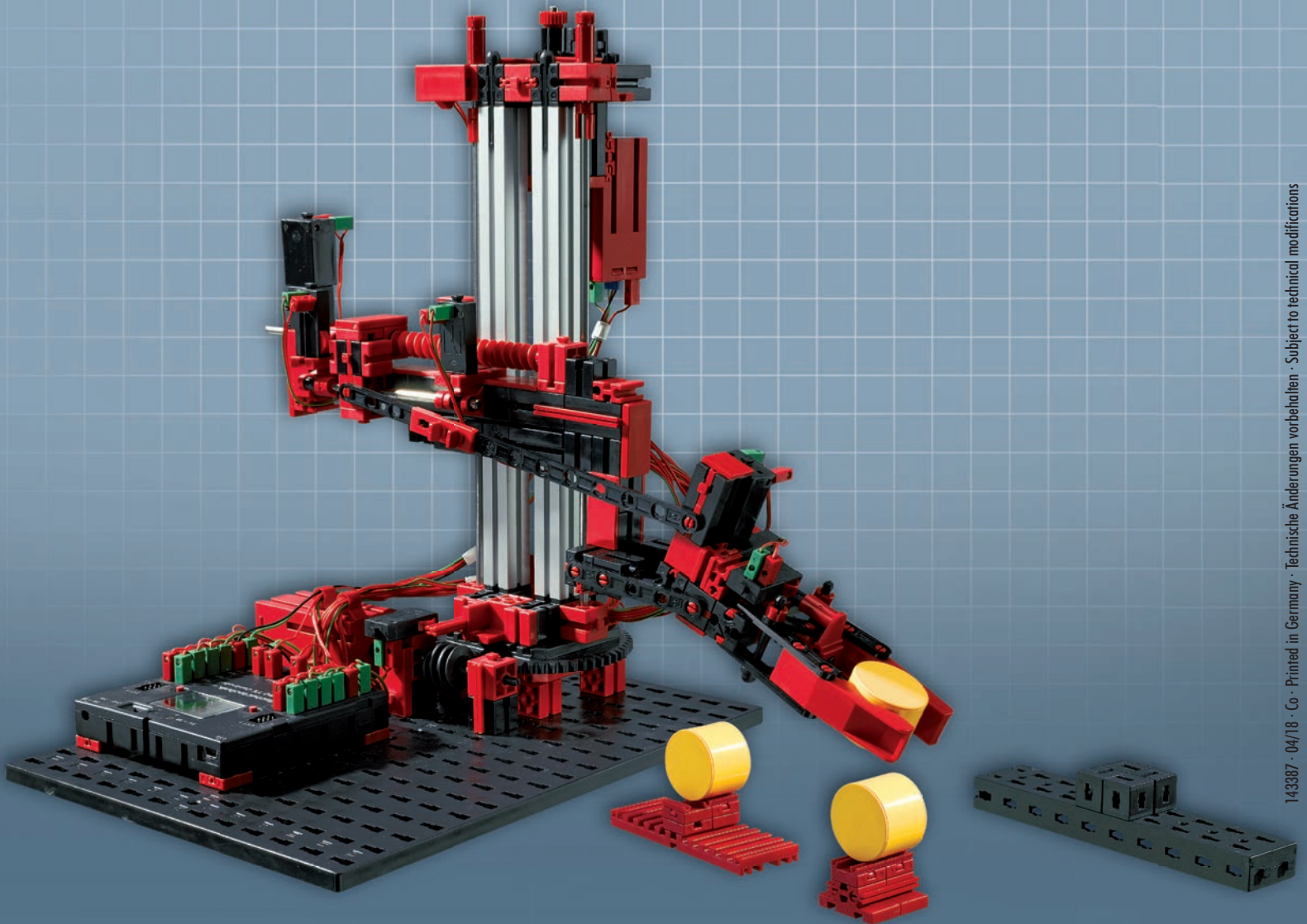
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TXT Automation Robots **4 MODELS**