

Model «Rail Mounted Manipulator». Series «Mechanical Town»
Модель «Маніпулятор на рейках». Серія «Механічне місто»

Manual
Інструкція зі складання

DEU Modell «Schienen-Drehkran». Serie «Mechanische Stadt».
FRA Modèle «Manipulateur sur rails». Série «La ville mécanique».
POL Model «Kombajn do układania torów». Seria «Mechaniczne miasto».
SPA Modelo «El manipulador en los raíles». Serie «La ciudad mecánica».
ITA Modello «Braccio meccanico su rotaie». Serie «Città meccanica».
TUR «Raylardaki manipülör» modeli. «Mekanik şehir» Bir dizi.
RUS Модель «Манипулятор на рельсах». Серия «Механический город».
KOR 레일 위의 조작기. **CHI 电车路线 机械城市**

DEU Aufbauanleitung. **FRA Notice d'assemblage.** **POL Instrukcja montażu.** **SPA Instrucciones de montaje.** **ITA Istruzioni di montaggio.** **TUR Kurulum talimatı.** **RUS Инструкция по сборке.**
KOR 조립 설명서. **CHI “轨道式机械手”模型 “机械城市”系列。**

Mechanical Models

ENG

Manual:
Remove model parts from the board as illustrated below.
Careful not to break parts. If a part doesn't remove easily, carefully cut it out with a knife. This model is intended for self-assembly without glue. If you have difficulty installing the axles, try waxing them with a regular candle. All moving parts can also be waxed during assembly to reduce friction when operating the model.

UKR

Інструкція зі складання:
Витягніть з дошки позначені на схемі деталі. Намагайтесь їх не зламати. Якщо деталь не виймається, надсічіть перемички ножем.
Конструкція збирається без kleю. У разі виникнення труднощів з притягуванням зубочистки (біци) в отвір, потрібно зубочистку об звичайну свічку. Також можна змастити свічкою всі деталі механізму, що рухаються, щоб зменшити тертя при обертанні.

DEU

Aufbauanleitung:
Bitte die in der Zeichnung angegebenen Teile aus der Platte herausnehmen. Versuchen Sie bitte diese nicht zu brechen. Wenn sich ein Teil nicht herausnehmen lässt, schneiden Sie die Stege mit dem Messer leicht an. Das Modell wird ohne Klebstoffe zusammengebaut. Lässt sich eine Achse nur schwer in eine Öffnung einführen, reiben Sie diese mit einer Kerze etwas ein. Für besseres Gleiten schmieren Sie alle beweglichen Teile mit einer Kerze.

FRA

Notice d'assemblage:
Faites sortir de la planche les pièces comme indiquées sur le schéma. Tâchez de ne pas les casser. Si la pièce ne sort pas, incisez les collages/fixations avec un couteau. La construction est à assembler sans colle. Si il est difficile d'introduire l'axe en bois dans l'orifice, frottez au préalable l'axe ou les pièces contre une bougie. Pour améliorer le glissement, traitez les pièces de frottement mobiles du mécanisme avec une bougie au cours d'assemblage.

POL

Instrukcja montażu:
Delikatnie wyciągaj z deseczki wskazane w schemacie detały, starając się nie połamać elementów. Jeśli detal nie oddaje się, podetnij wiązadła nożem. Konstrukcje składa się bez kleju. Jeśli napotkasz trudności z instalacją drewnianej osi w otworze, potryj na początku osi lub detały o woskową świecę. Dla lepszego poślizgu polecano smarowanie ruchomych części mechanizmu zwykłą świecą podczas montażu.

SPA

Instrucciones de montaje:
Saque de la tabla las piezas marcadas en el esquema. Trate de no romperlas. Si una pieza no se saca, haga una incisión. La construcción va sin pegamento. Si tiene dificultades con la instalación del eje de madera en un agujero, frote primero el eje o las piezas contra una vela. Para un mejor deslizamiento, lubrique durante el montaje las piezas móviles del mecanismo con una vela común.

ITA

Istruzioni di montaggio:
Estrarre dal telaio i particolari indicati nello schema. Fare attenzione a non romperli. Se un particolare non si stacca, tagliare delicatamente gli elementi di collegamento con un coltello. L'assieme viene realizzato senza colla. In caso di difficoltà nell'inserimento di un perno in legno, è necessario sfregare il perno o il particolare con un po' di cera. Per uno scorrimento migliore incendiare le parti mobili del meccanismo durante l'assemblaggio.

TUR

Kurulum talimatı:
Şemada işaretlenen parçaları tahtadan çıkarın. Kirılmamasına dikkat ediniz. Parça çıkarılmıyorsa bağlantı yerlerini bıçakla kesiniz. Konstrüksyon, yapıştırıcı kullanmadan yapılmaktadır. Tahta dingilini (kürdan) deliğin içine yerleştirirmede zorluk çekiyorsanız önceden dingile veya parçalara mum sürünen. Hareketli parçaların daha iyi kayması için kurulum sırasında parçalara mum sürünen.

RUS

Инструкция по сборке:
Вынимайте из доски обозначенные на схеме детали. Старайтесь их не сломать. Если деталь не извлекается, надрежьте перемычки ножом.
Конструкция собирается без клея. Если возникли трудности с установкой деревянной оси, перед установкой потрите детали об обычную свечу. Для лучшего скольжения смазывайте движущиеся детали механизма обычной свечой во время сборки.

KOR

조립 설명:
부품이 손상되지 않도록 주의하여 보드에서 떼어냅니다. 만약 부품이 잘 떨어지지 않으면 연결 부분을 칼로 절단 한 후 떼어내면 쉽게 떼어 낼 수 있습니다.
본 제품은 접착제가 없이 조립이 가능하도록 설계되어 있습니다. 만약 축이 잘 기워지지 않는 경우 양초를 축에 바른 후 기워 보세요.
모든 구동 부위는 제품 구동 시 원활한 작동이 가능하도록 조립 과정에서 운활제(양초) 양초를 발라 주세요

CHI

装配说明
将模型部件按插图示，从胶合板取下。小心不要损坏件。如果取下时候有难度，请用小刀小心的切割连接点。这个产品不需要胶水粘接。如果安装转轴的时候有难度，请用普通的蜡加以润滑。所有的转动部分也需要打蜡润滑。

ENG Warning! UKR Уvara! DEU Achtung! FRA Attention! POL Uwaga! SPA Precaución!
ITA Attenzione! TUR Dikkat! RUS Внимание! KOR 주의! CHI 注意！



ENG Do not use a lighted candle! **UKR** Не підпалювати! **DEU** Nicht anzünden!
FRA Ne pas brûler! **POL** Nie podpalać! **SPA** ¡No encender! **ITA** Non dare fuoco!
TUR Yakmayın! **RUS** Не поджигать! **KOR** 불이 붙은 초를 이용하지 마세요!
CHI 请勿点燃，请勿靠近火源！



ENG Caution! Axles have sharp points! **UKR** Обережно! Гострі деталі! **DEU** Vorsicht! Spitze Teile! **FRA** Attention: certaines pièces sont pointues! **POL** Ostrożnie! Ostre części! **SPA** ¡Atención! Piezas afiladas! **ITA** Attenzione! Particolari appuntiti! **TUR** Dikkat! Keskin parçalar!
RUS Осторожно! Острые детали! **KOR** 측의 뾰족한 부분에 주의하세요! **CHI** 注意！含尖锐部件



ENG Symbols. UKR Умовні позначення. **DEU Legende.** **FRA Légende.** **POL Oznaczenia umowne.** **SPA Leyenda.**

ITA Legenda. **TUR Kararlaştırılan işaretler.** **RUS Условные обозначения.** **KOR 기호.** **CHI 图标含义**



ENG Wax the part with a regular candle (rub with a candle). **UKR** Змастіть деталь звичайною свічкою (потрій об свічку).

DEU Reiben Sie das Teil mit einer einfachen Kerze etwas ein. **FRA** Lubrifiez la pièce avec une bougie ordinaire (frottez contre la bougie).

POL Przesmaruj zwykłą świecą. **SPA** Engrase la pieza con una vela común (frote con una vela). **ITA** Incerare il componente (Sfregare con la cera). **TUR** Parçaya sade mum sürüneniz. **RUS** Смажьте деталь обычной свечкой (потрите о свечку). **KOR** 표시된 부분에 윤활을 위해 초를 칠해 주세요. **CHI** 用普通蜡烛涂抹润滑部件。



ENG The part should be easily rotated (moved) **UKR** Деталь повинна легко крутитися (рухатися). **DEU** Der Teil soll leicht gedreht (bewegt) werden. **FRA** La pièce doit tourner (se déplacer) aisément. **POL** Element powinien łatwo się kręcić (poruszać się). **SPA** La pieza debe ser fácil de girar (mover). **ITA** Il componente deve girare (muoversi) facilmente. **TUR** Parça kolayca dönmeli (hareket etmeli). **RUS** Деталь должна легко крутиться (двигаться). **KOR** 활하게 움직일 수 있어야합니다. **CHI** 此部件应灵活转动



ENG Do not fully press the outer parts (structural frame) together until checking for fit and alignment of internal parts. **UKR** Деякий час не притискайте сильно деталі (рамки конструкції). **DEU** Drücken Sie die Teile (die Rahmen der Konstruktion) momentan nicht stark. **FRA** Ne pas forcer sur les pièces (cadre de la construction). **POL** Tymczasowo nie dociskaj elementów (ramy konstrukcji). **SPA** No presione temporalmente con fuerza las piezas (marco de la estructura). **ITA** Non stringere provvisoriamente i componenti con forza (base della costruzione). **TUR** Bir süre için parçaları (yapı çerçevelerini) fazla sıkmayın. **RUS** Временно сильно не прижимайте детали (рамки конструкции). **KOR** 아직은 외부의 틀을 완전히 놀려서 고정하면 안됩니다. 다른 부품을 먼저 끼우세요. **CHI** 在检查内部零件的配合和对准之前，请暂时不要将外部零件（结构框架）完全压在一起。



ENG Break off or cut out. **UKR** Відламайте або відріжте. **DEU** Abbrechen oder Abschneiden. **FRA** Coupez ou cassez. **POL** Odłam lub odetnij.

SPA Rompa o corte. **ITA** Staccare o tagliare. **TUR** Kirin veya kesin.

RUS Отломайте или отрежьте. **KOR** 잘라내 주세요. **CHI** 切断



ENG Spare parts. **UKR** Запасні деталі. **DEU** Ersatzteile. **FRA** Pièces de rechange. **POL** Części zamiennie. **SPA** Piezas de repuesto. **ITA** Pezzi di ricambio.

TUR Yedek parçalar. **RUS** Запасные детали. **KOR** 여유 부품입니다.

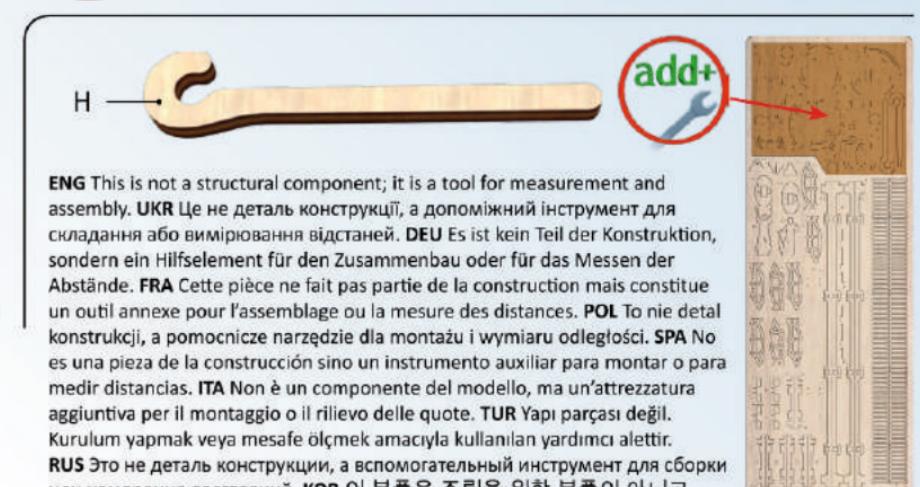
CHI 备用件

ENG Pay attention. Check for correct orientation or positioning. **UKR** Зверніть увагу. Перевірте розташування елемента. **DEU** Bitte Beachten. Prüfen Sie die Einbaulage des Elementes. **FRA** Faites attention. Vérifiez la disposition de l'élément. **POL** Zwróć uwagę. Sprawdź lokalizację elementu. **SPA** Atención. Compruebe la situación del elemento. **ITA** Prestare attenzione. Controllare la posizione del componente. **TUR** Dikkat. Elemanın yerleşimini kontrol ediniz. **RUS** Обратите внимание. Проверьте расположение элемента. **KOR** 방향 또는 위치에 주의해서 조립해 주세요. **CHI** 注意！检查部件方向和位置



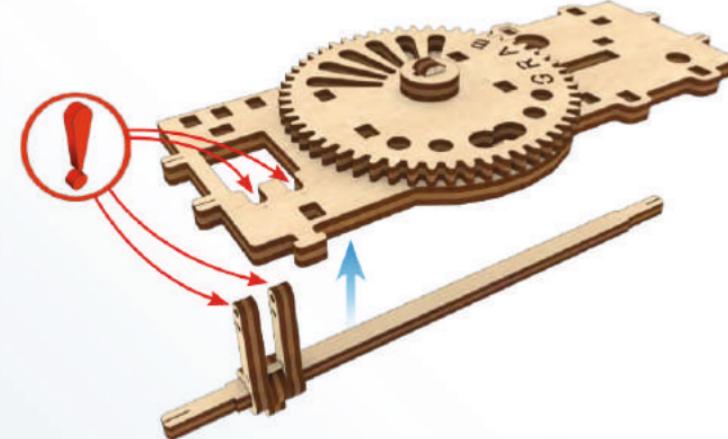
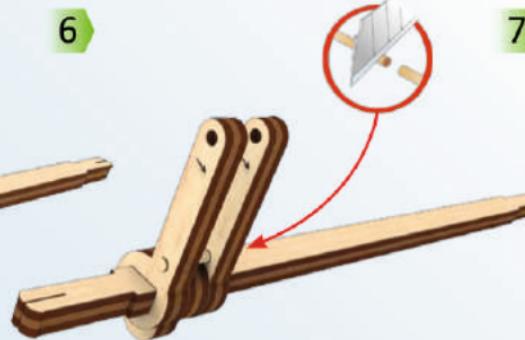
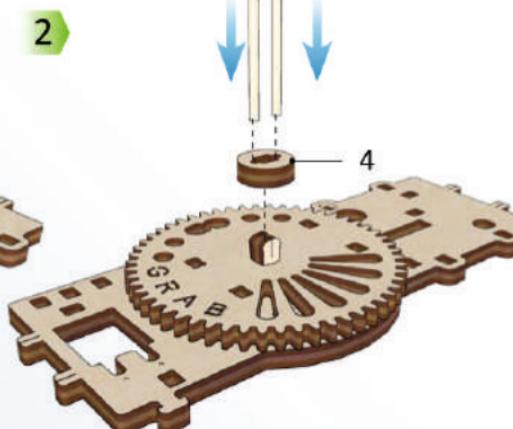
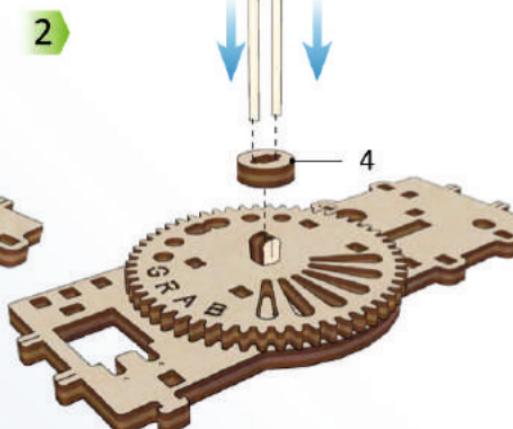
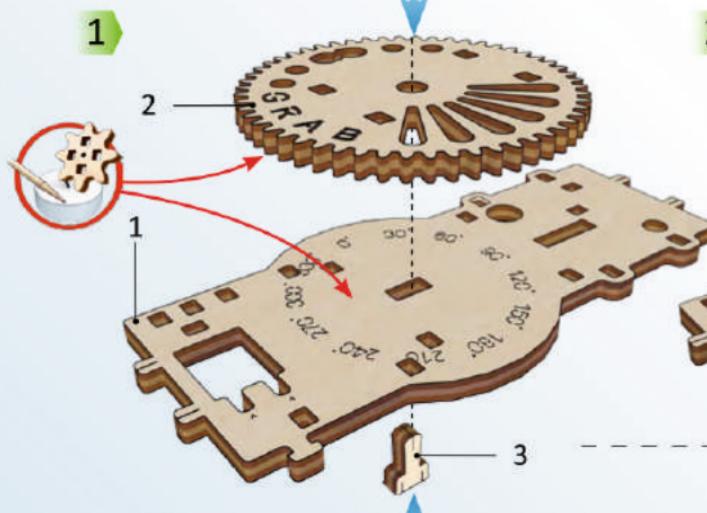
ENG Sand to remove burrs. **UKR** Видаліть задирки. **DEU** Grate entfernen.

FRA Eliminez les bavures. **POL** Usuń zadziory. **SPA** Quite las rebabas. **ITA** Togliere le bave. **TUR** Çapakları çıkartın. **RUS** Удалите заусенцы. **KOR** 거친 부분을 다듬어 주세요. **CHI** 磨掉毛刺



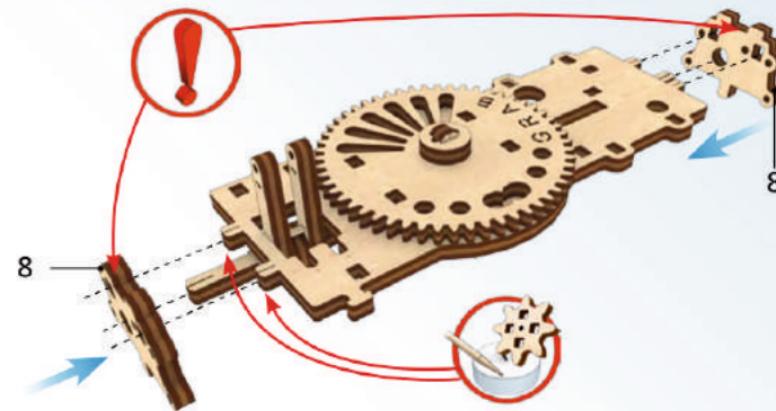
ENG This is not a structural component; it is a tool for measurement and assembly. **UKR** Це не деталь конструкції, а допоміжний інструмент для складання або вимірювання відстаней. **DEU** Es ist kein Teil der Konstruktion, sondern ein Hilfselement für den Zusammenbau oder für das Messen der Abstände. **FRA** Cette pièce ne fait pas partie de la construction mais constitue un outil annexe pour l'assemblage ou la mesure des distances. **POL** To nie detal konstrukcji, a pomocnicze narzędzie dla montażu i wymiaru odległości. **SPA** No es una pieza de la construcción sino un instrumento auxiliar para montar o para medir distancias. **ITA** Non è un componente del modello, ma un'attrezzatura aggiuntiva per il montaggio o il rilievo delle quote. **TUR** Yapı parçası değil. Kurulum yapmak veya mesafe ölçmek amacıyla yardımcı alettir. **RUS** Это не деталь конструкции, а вспомогательный инструмент для сборки или измерения расстояний. **KOR** 이 부품은 조립을 위한 부품이 아니고 조립을 돋거나 측정을 위한 도구입니다. **CHI** 这不是装配零部件，是一种测量及安装辅助工具。

Mechanical Models

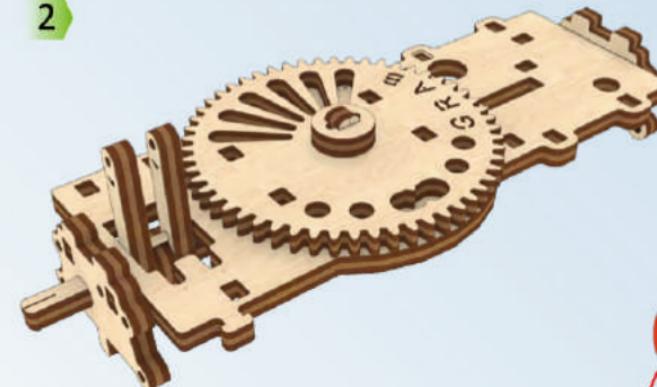




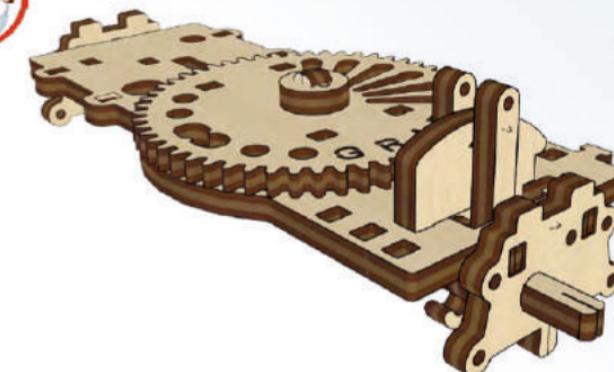
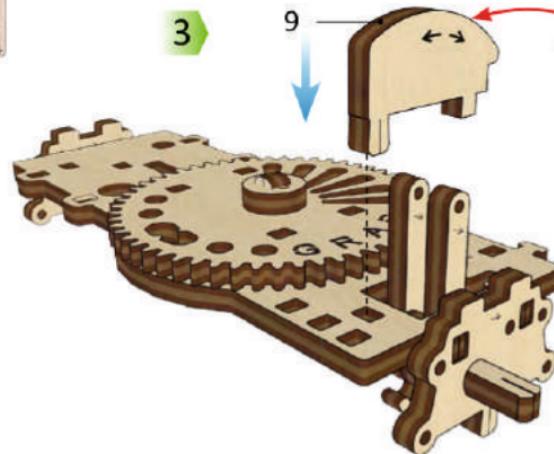
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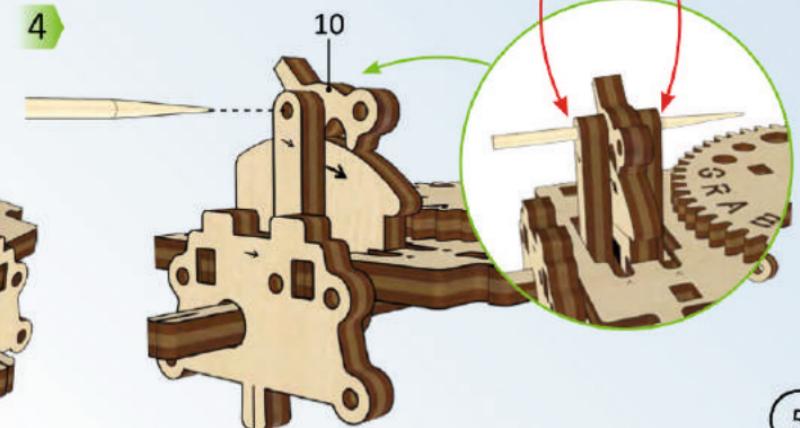
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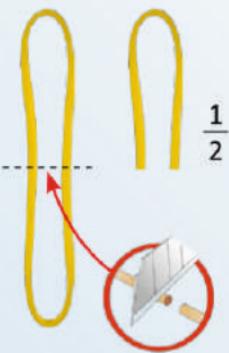
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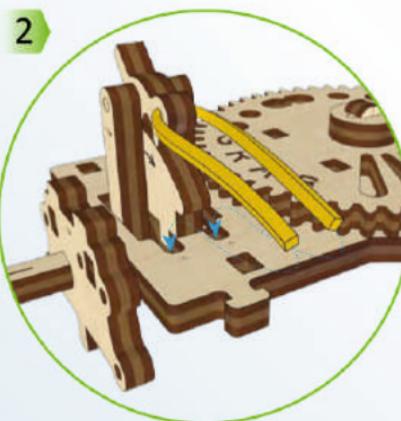
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Mechanical Models

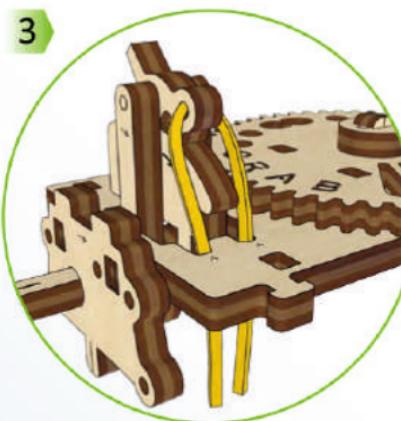
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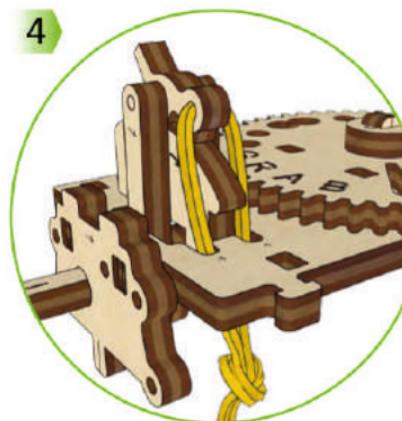
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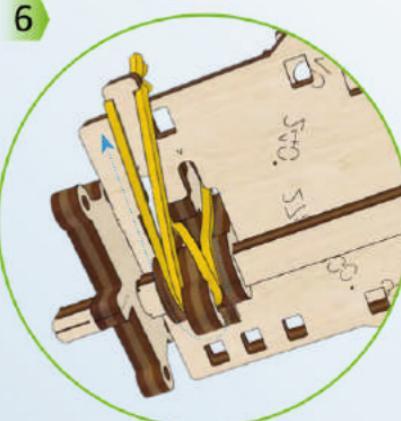
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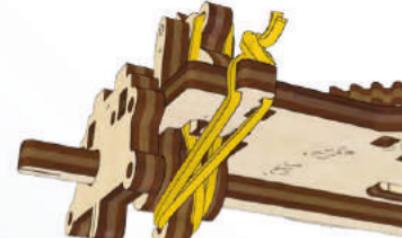
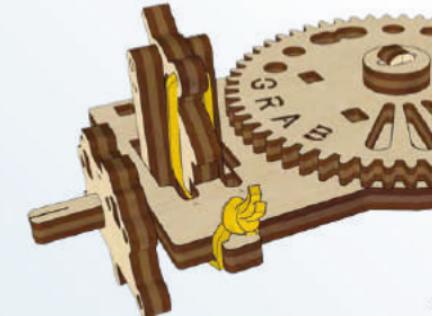
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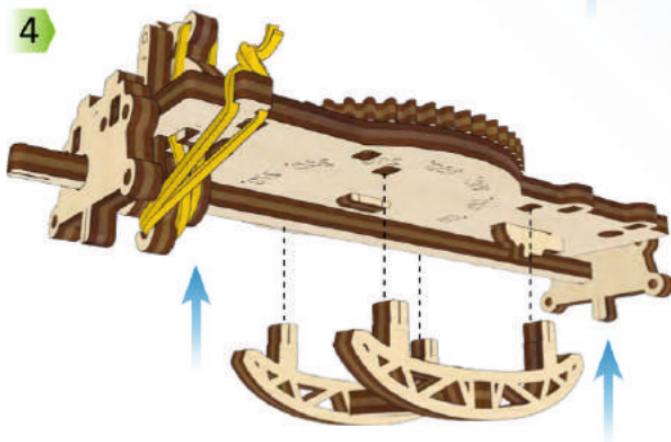
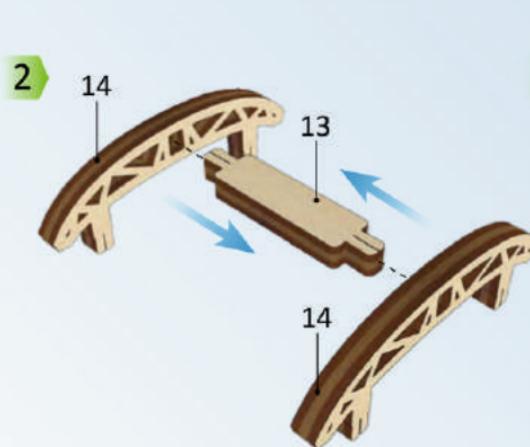
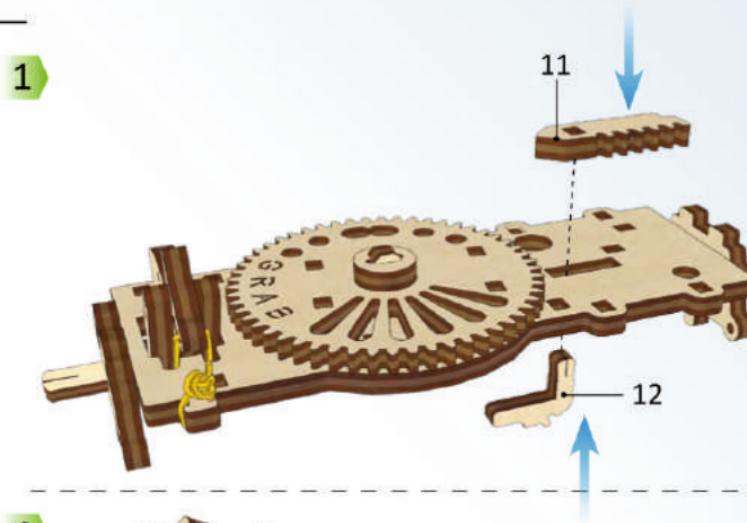
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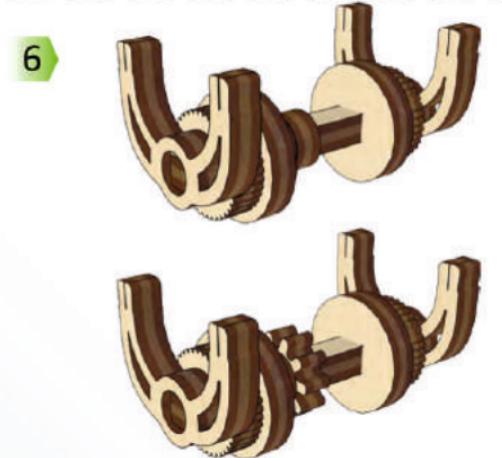
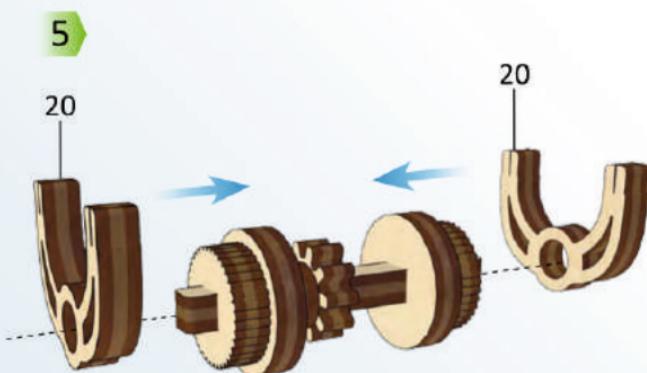
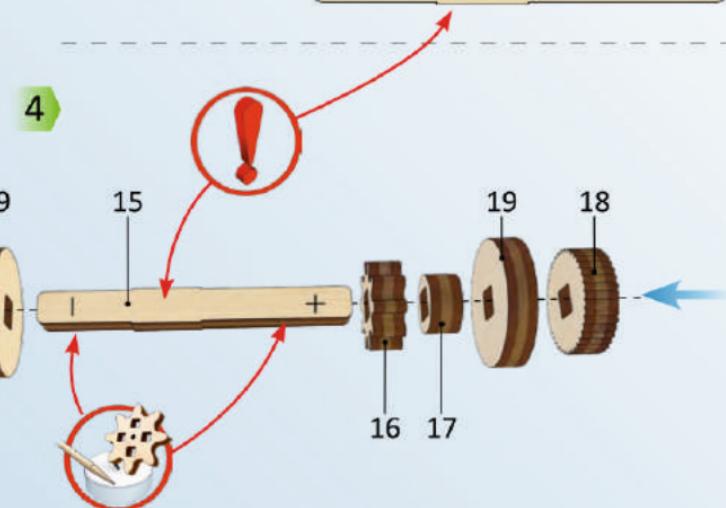
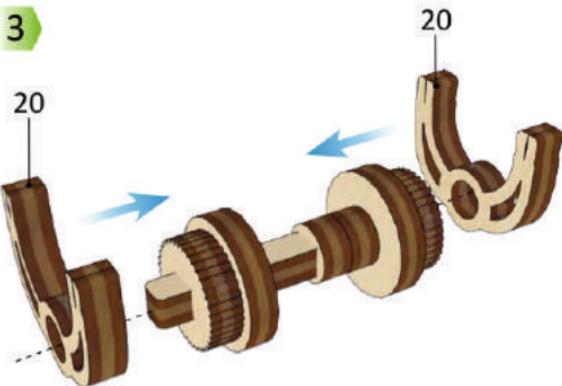
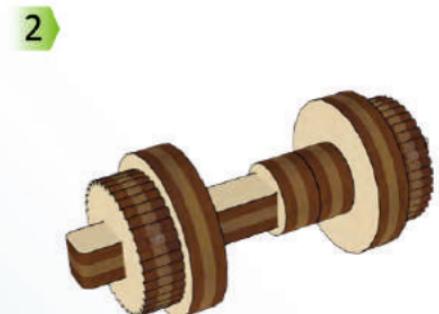
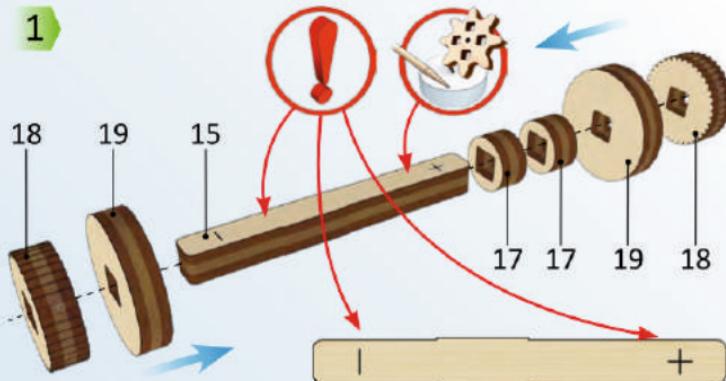
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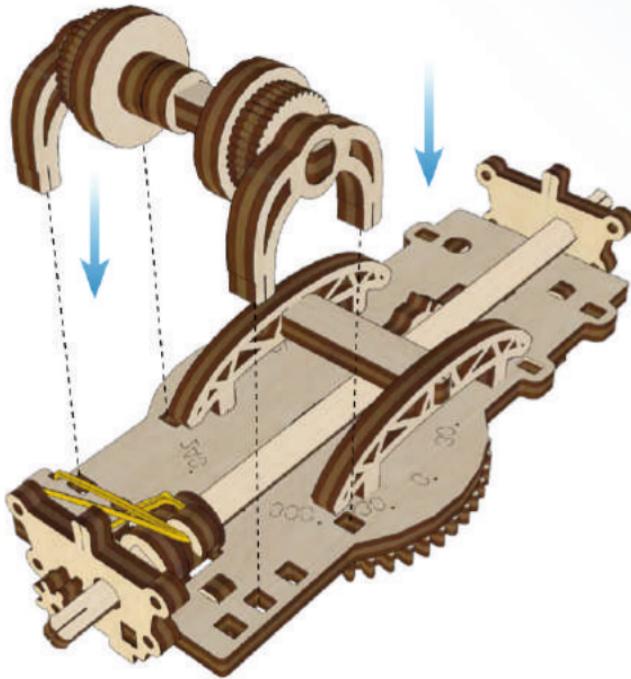
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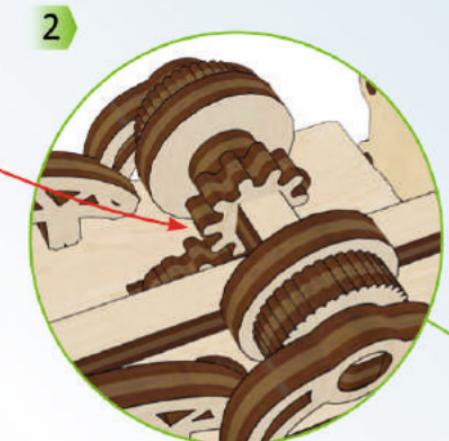
Mechanical Models



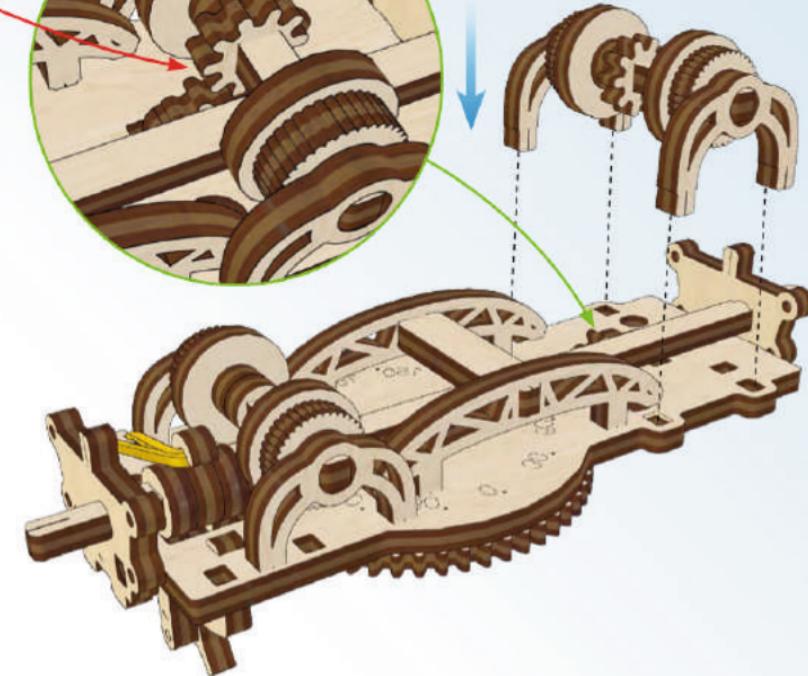
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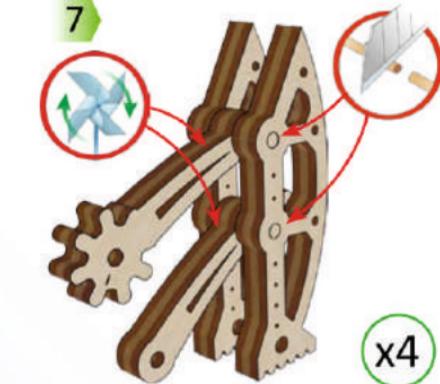
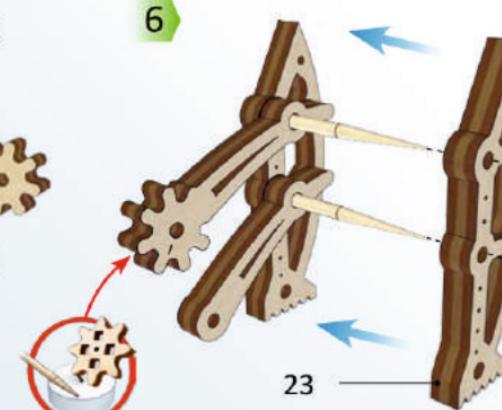
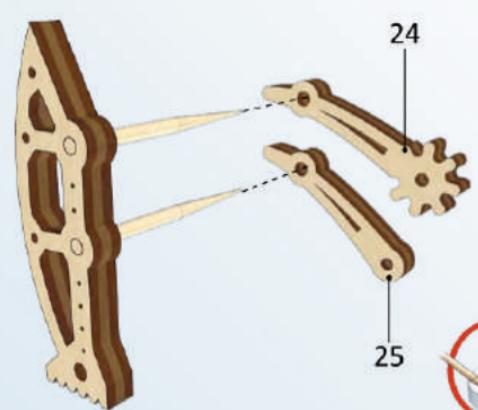
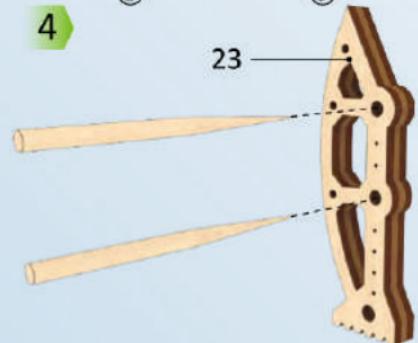
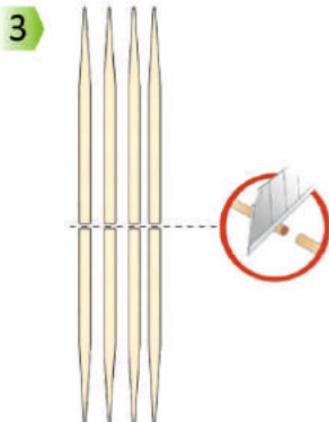
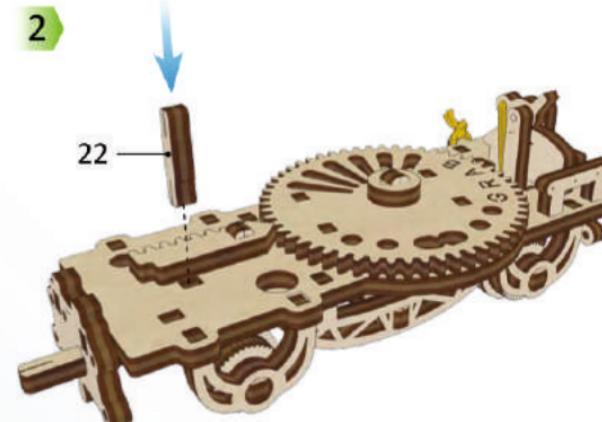
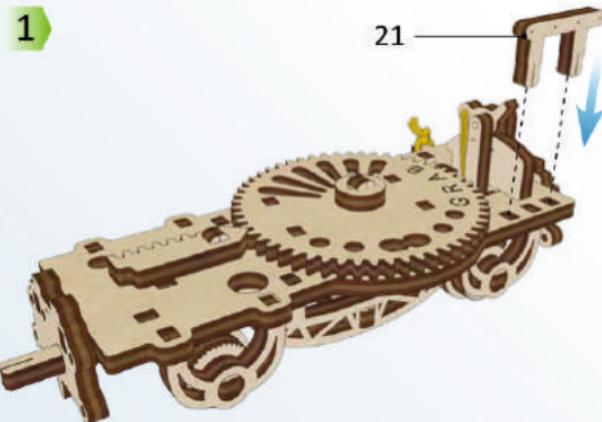
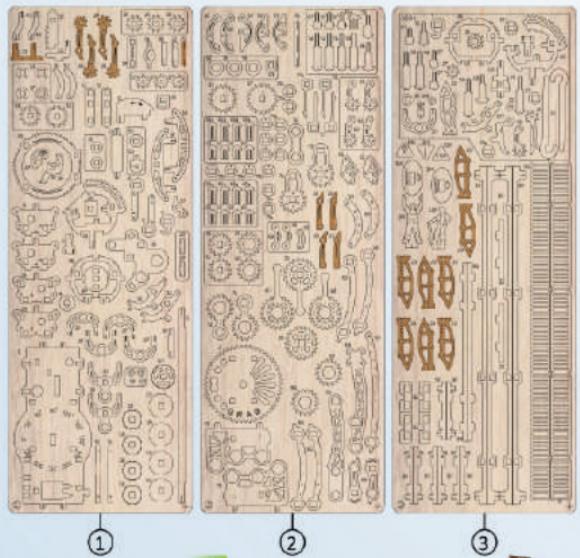
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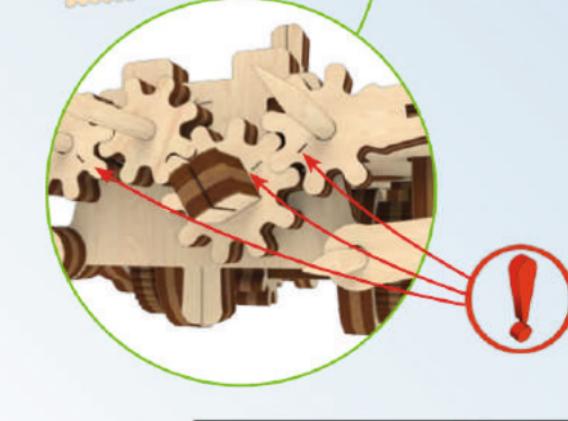
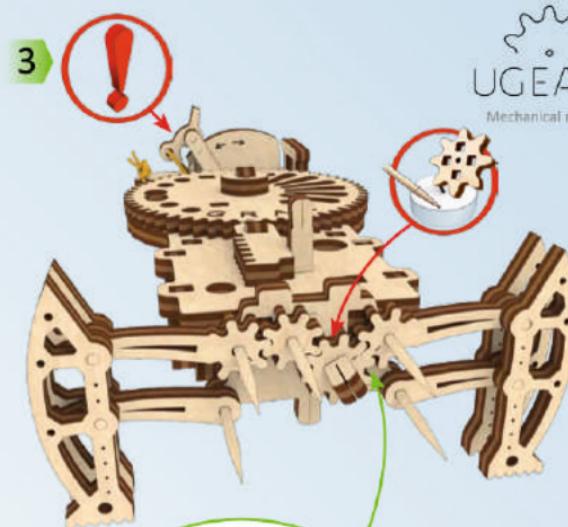
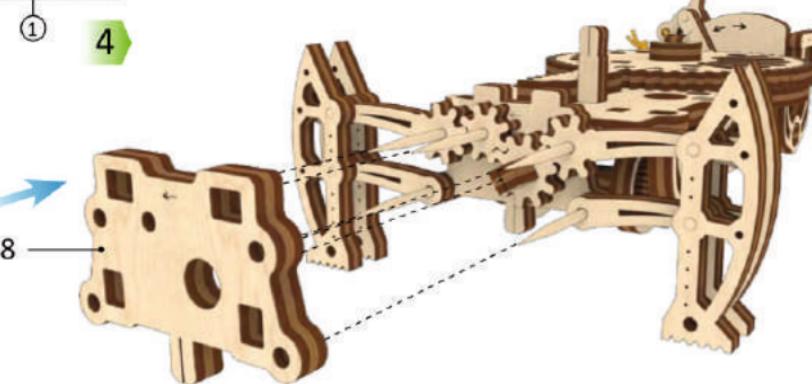
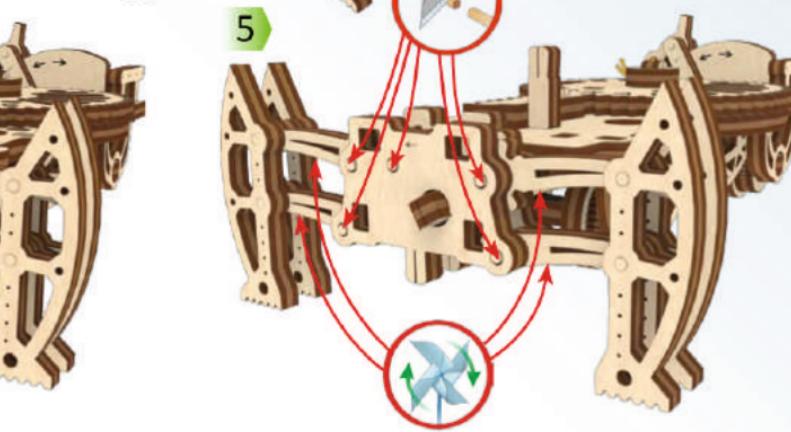
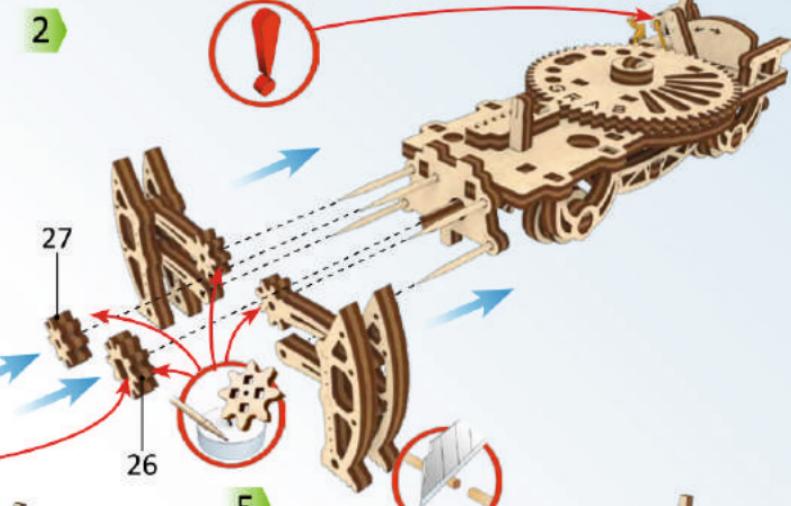
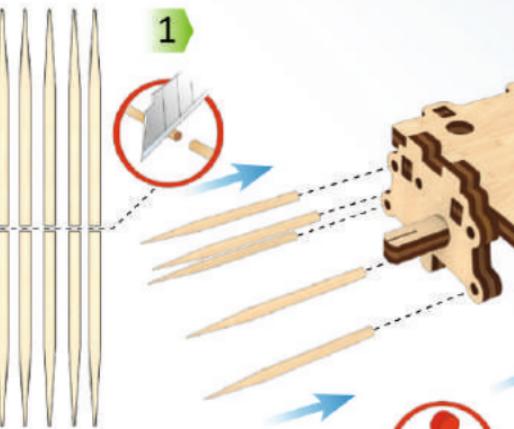


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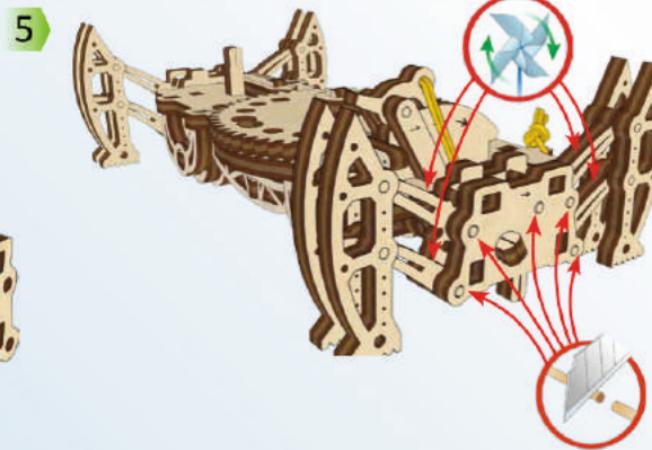
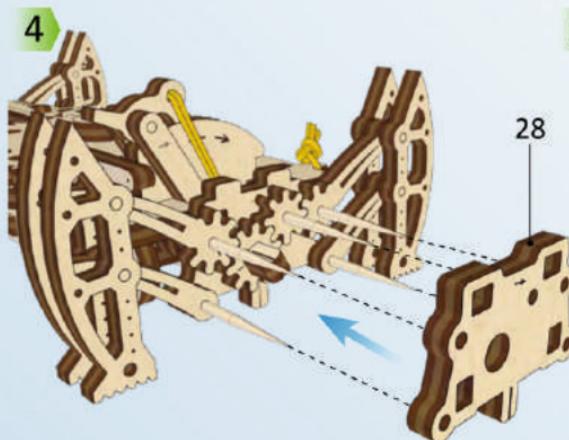
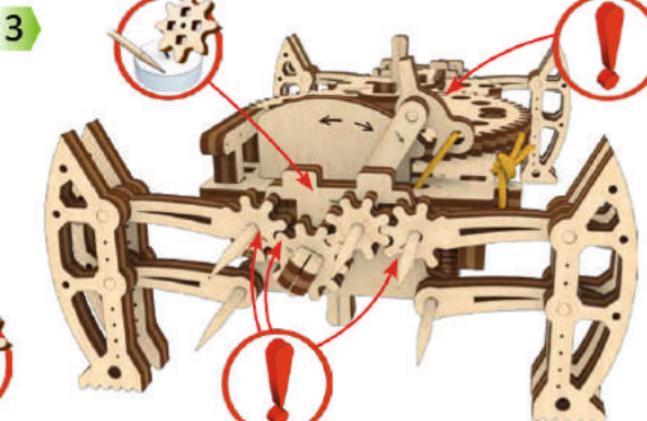
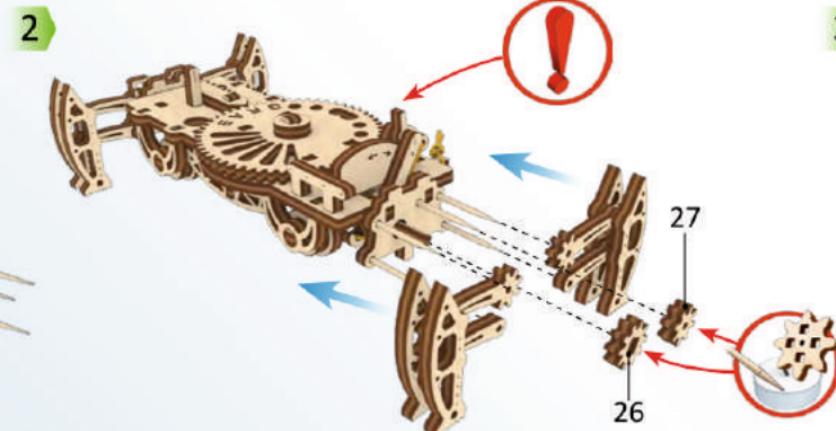
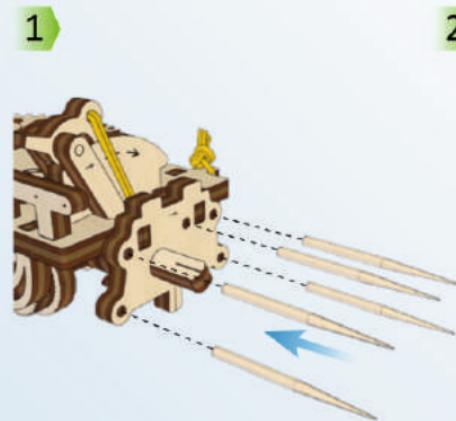


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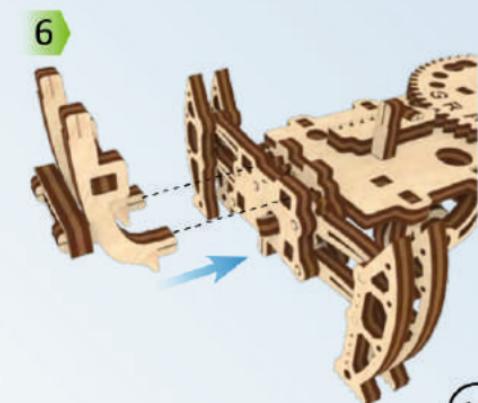
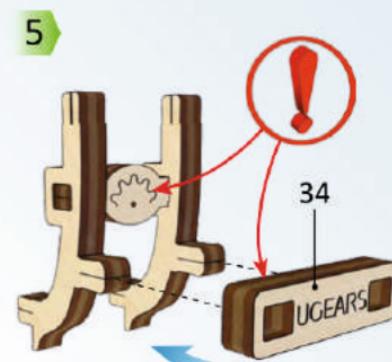
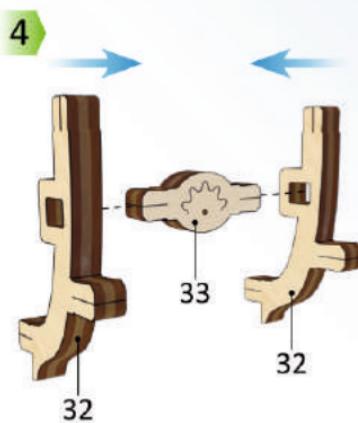
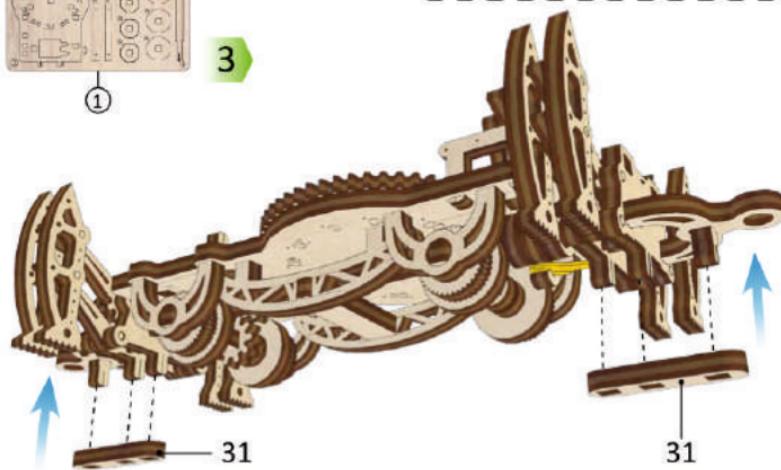
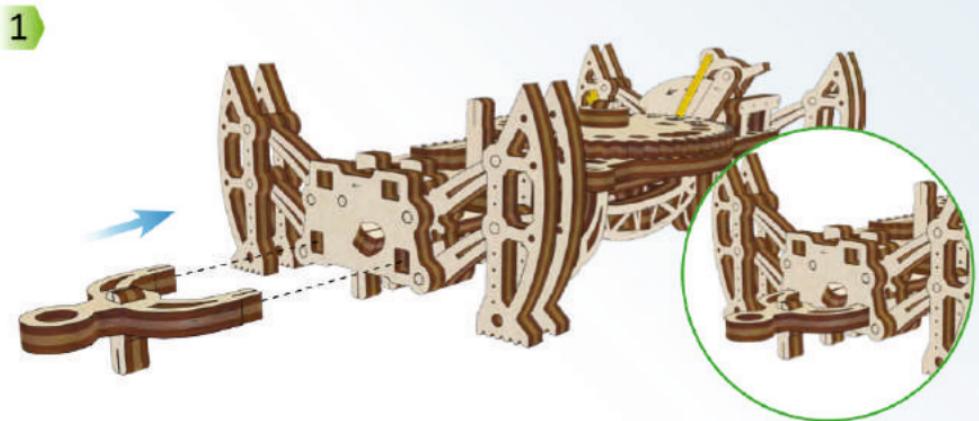




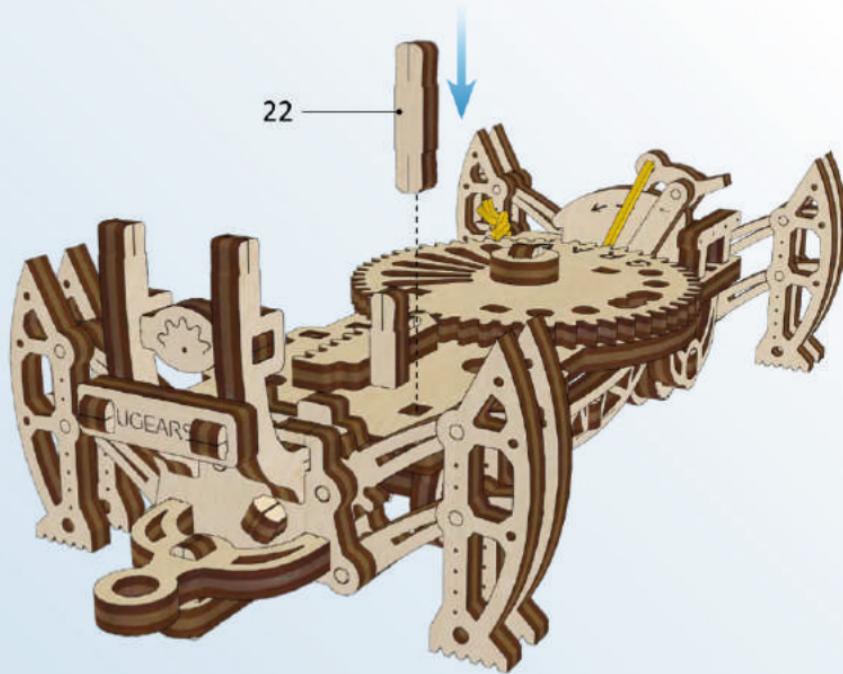
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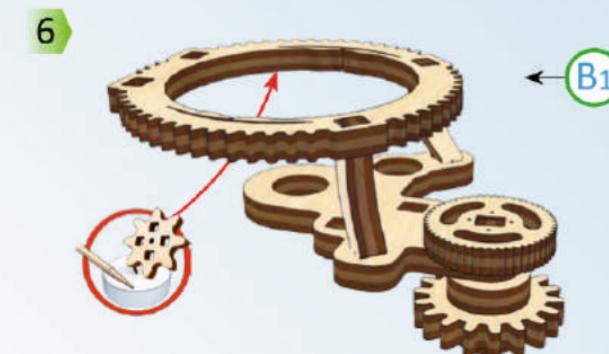
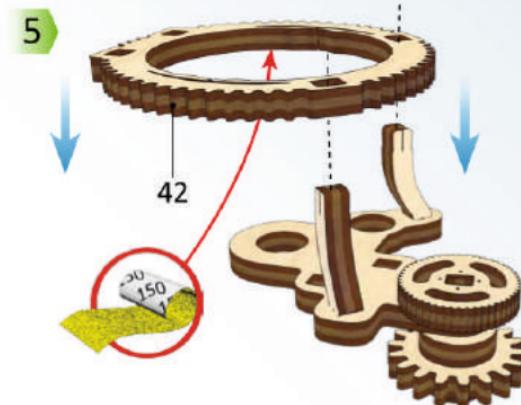
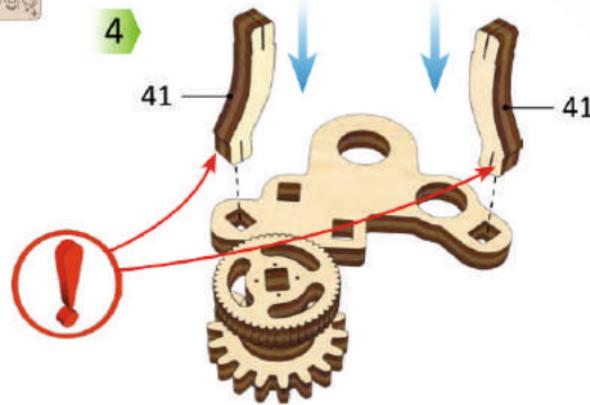
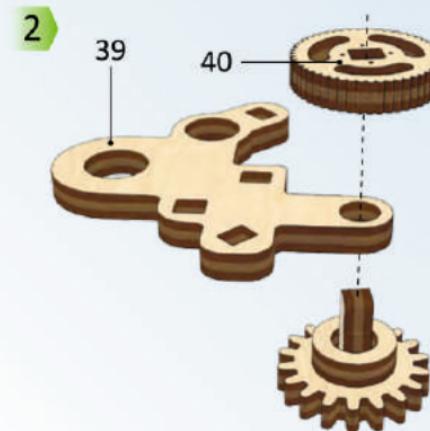
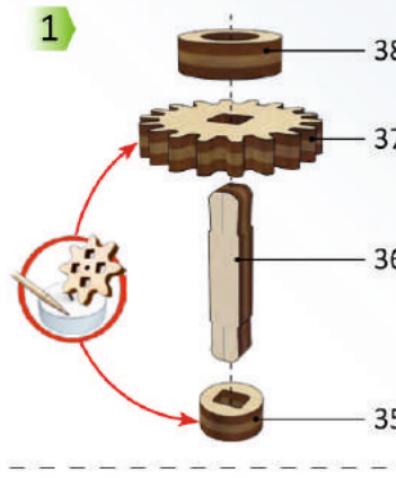


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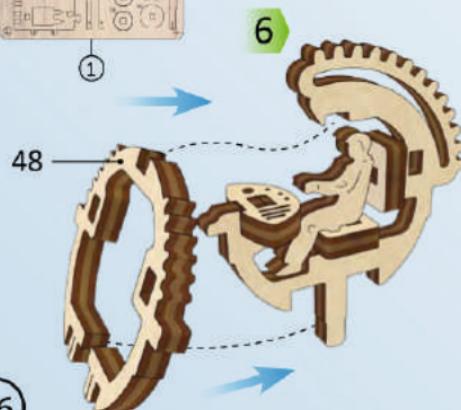
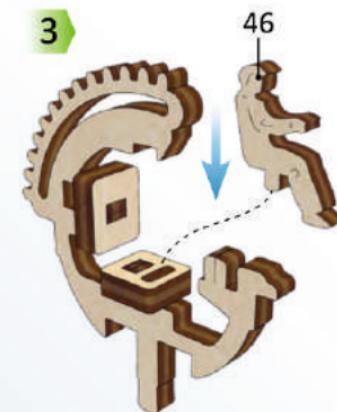
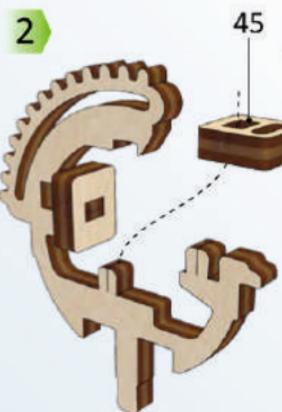
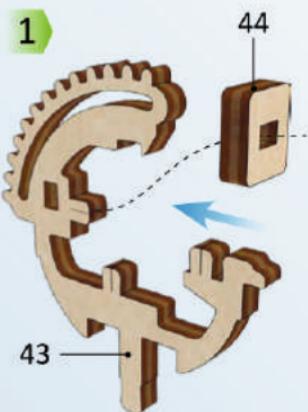


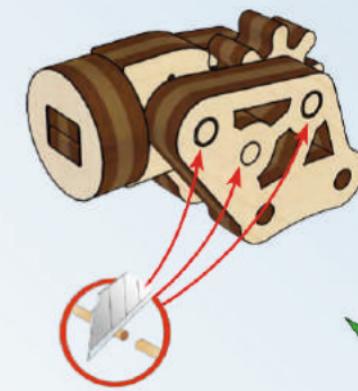
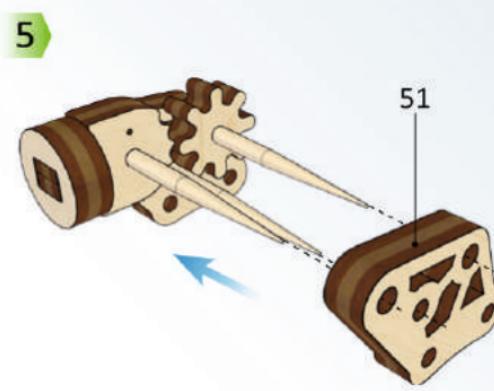
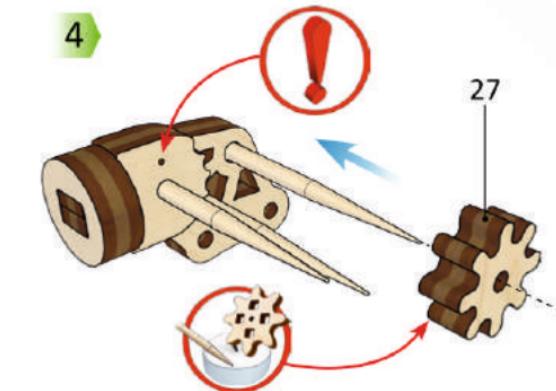
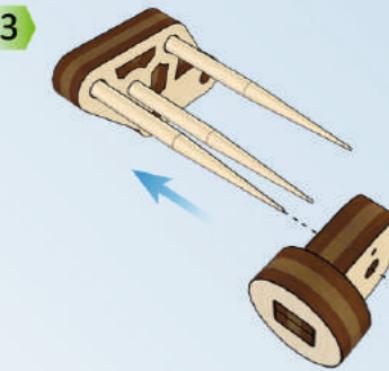
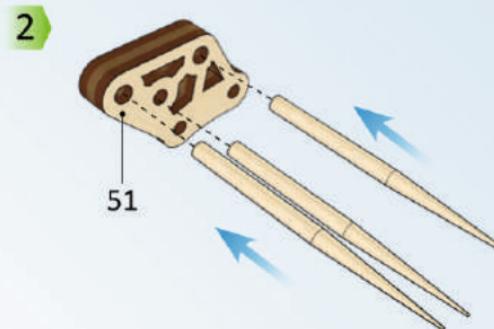
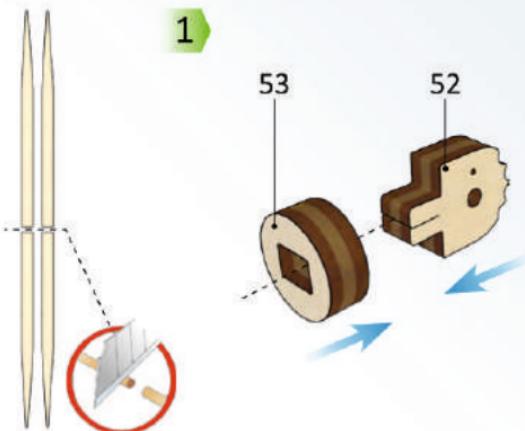
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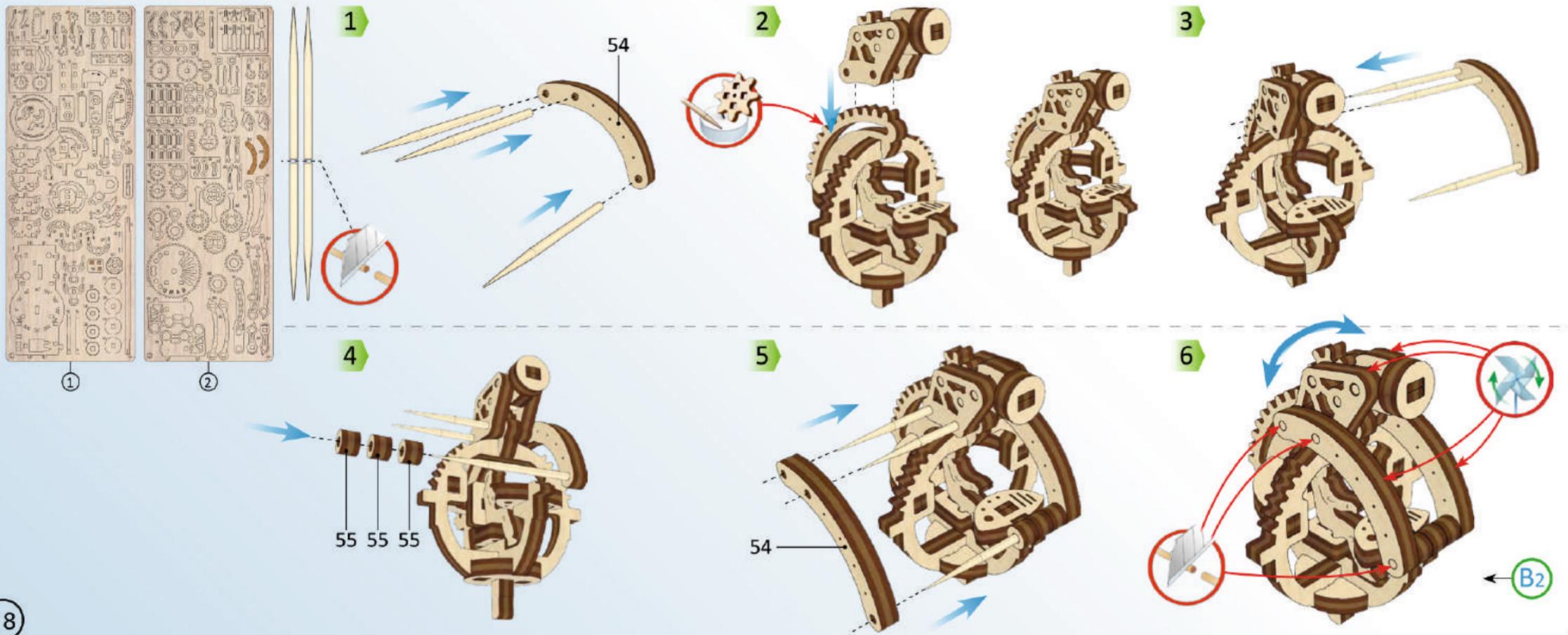


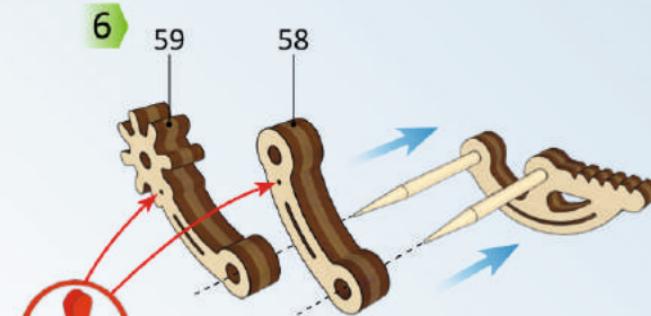
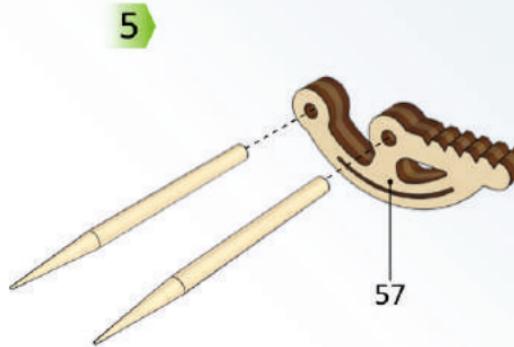
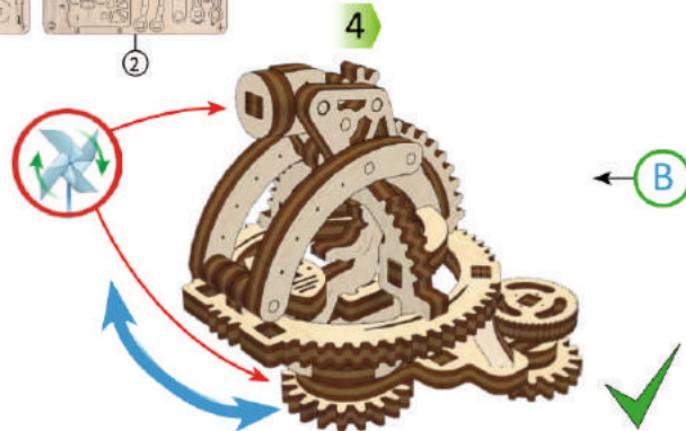
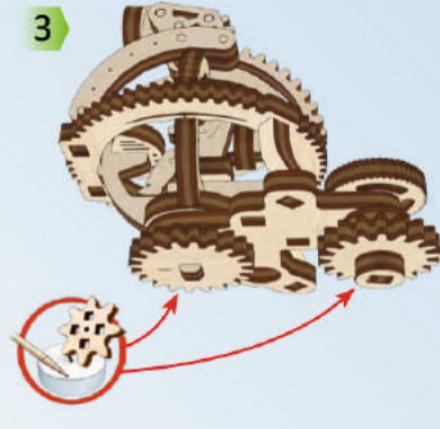
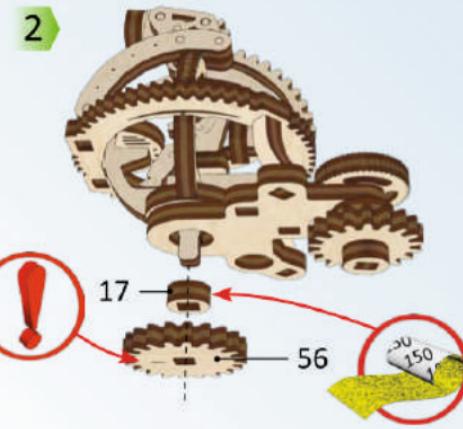
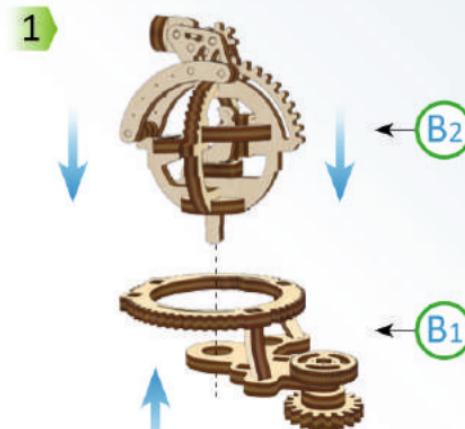
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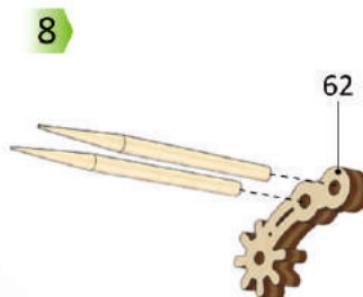
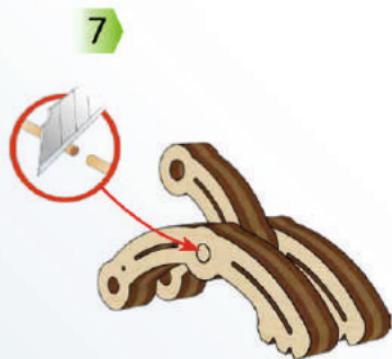
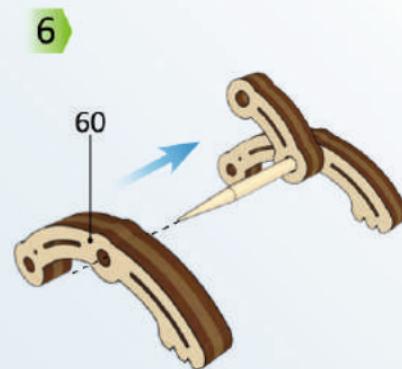
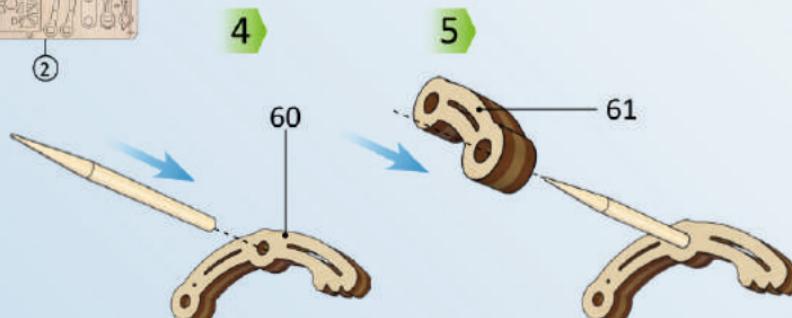
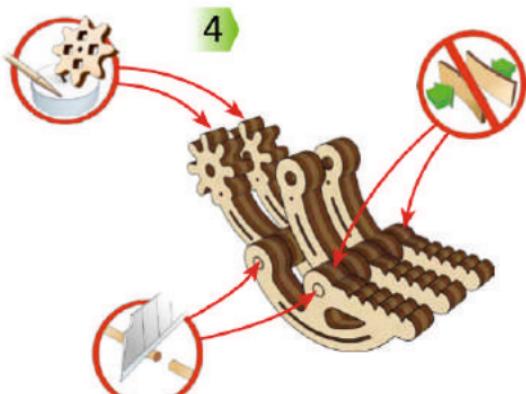
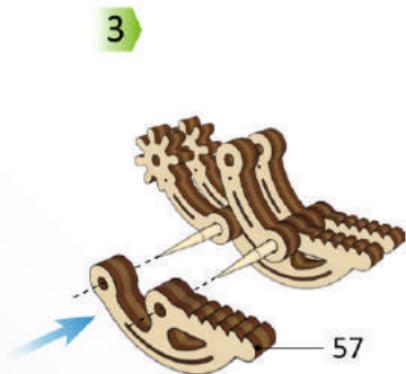
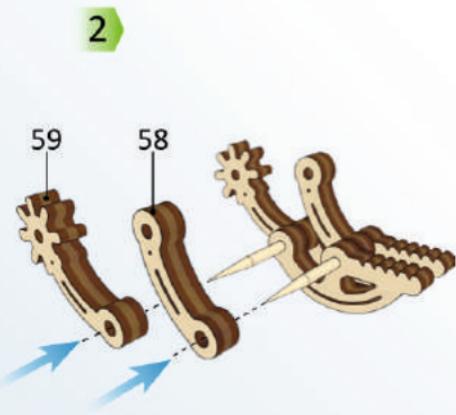
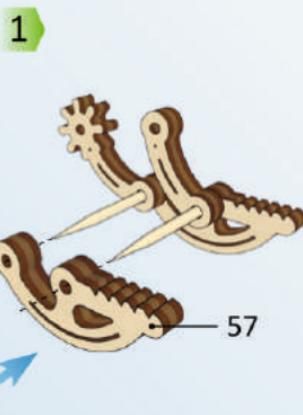


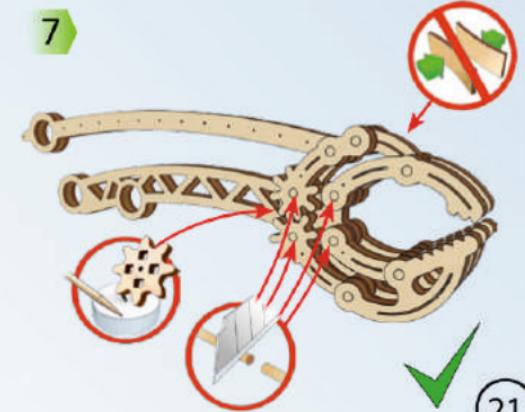
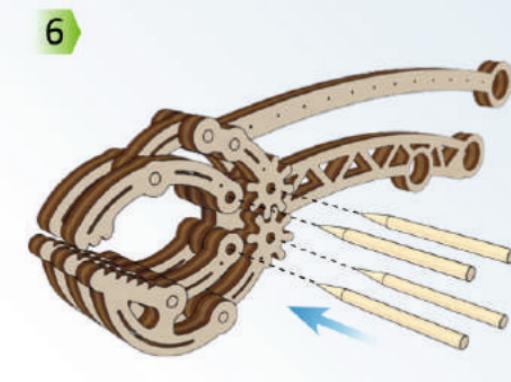
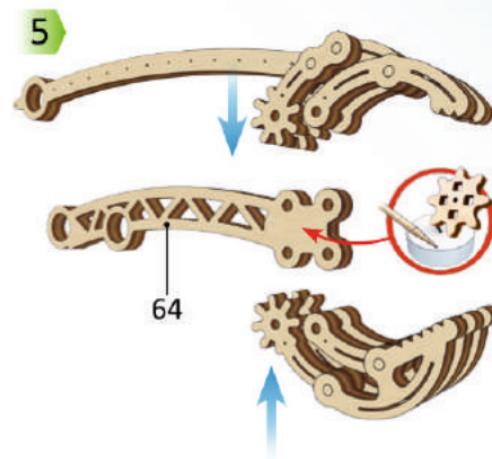
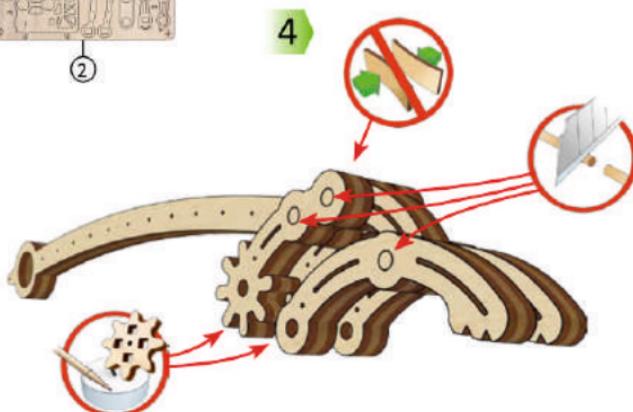
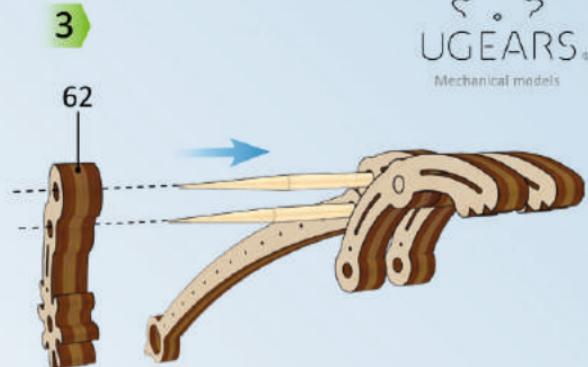
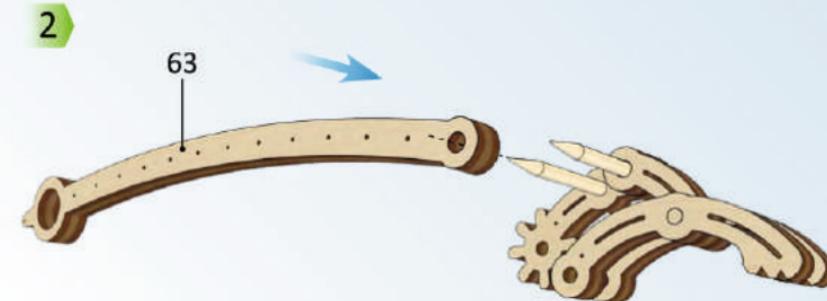
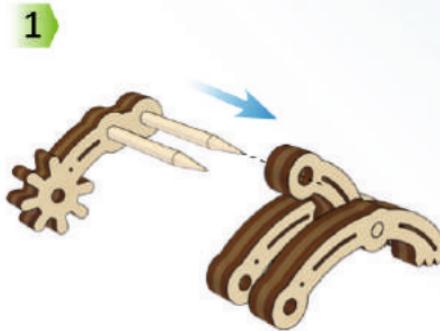
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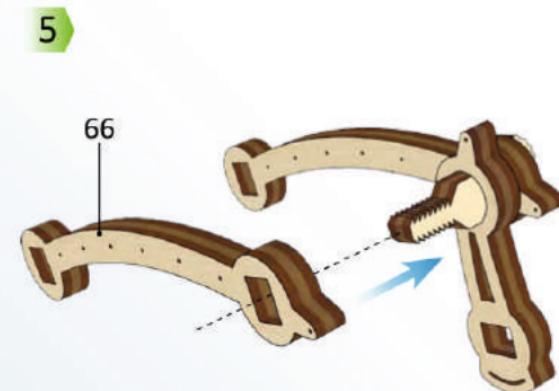
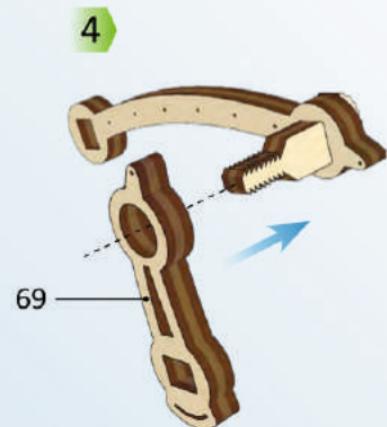
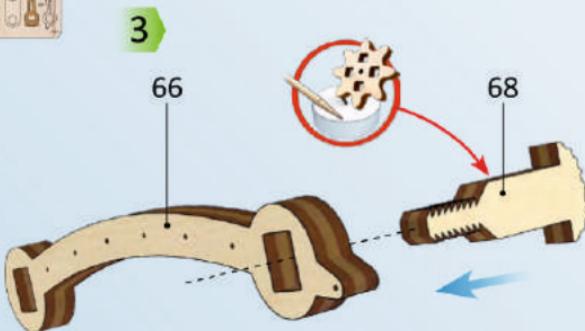
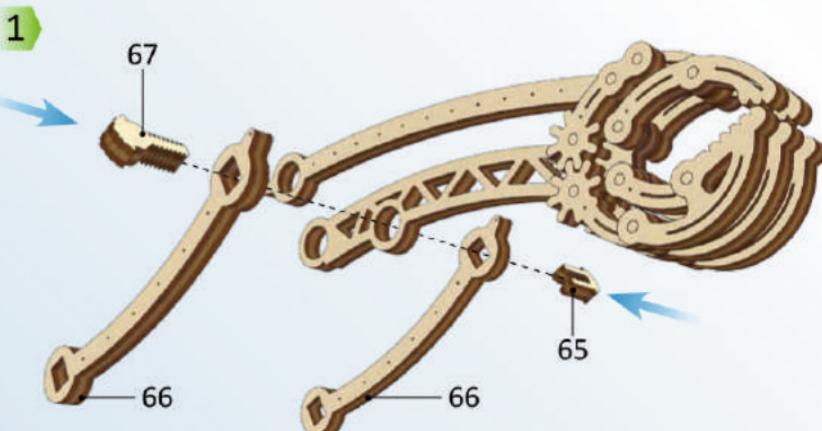


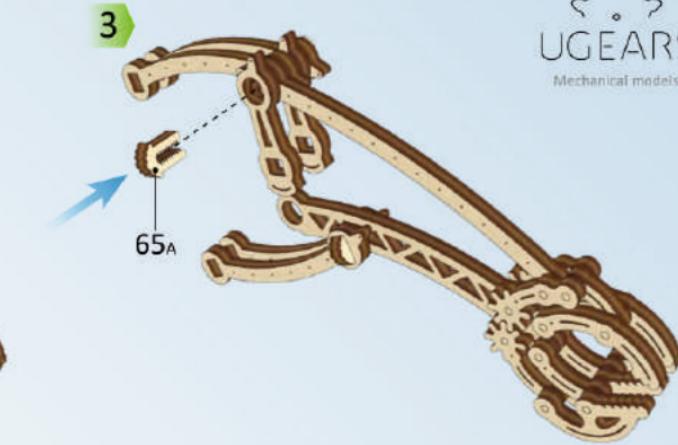
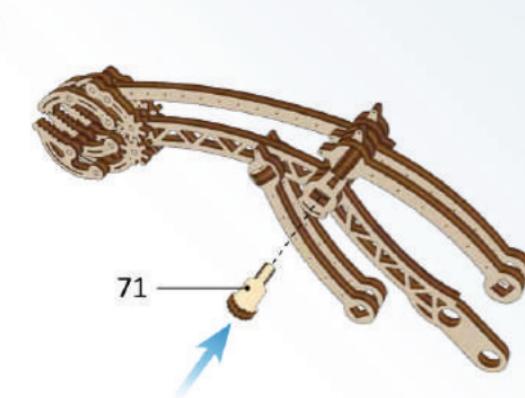
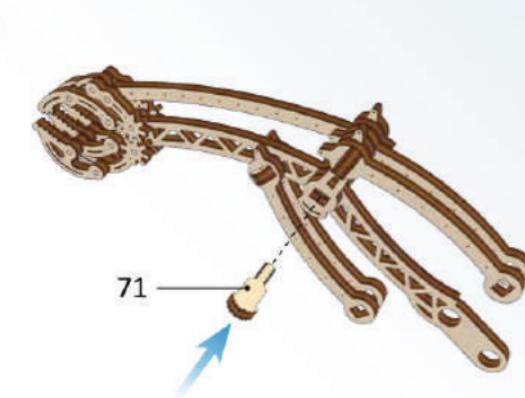
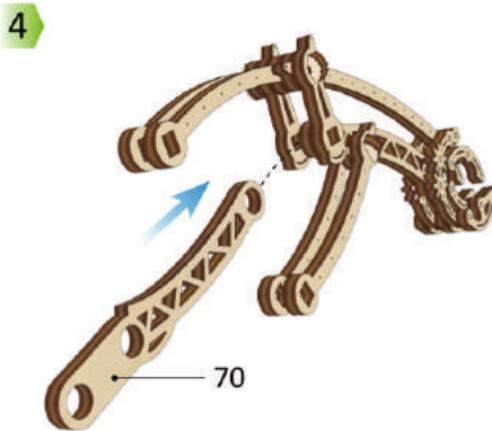
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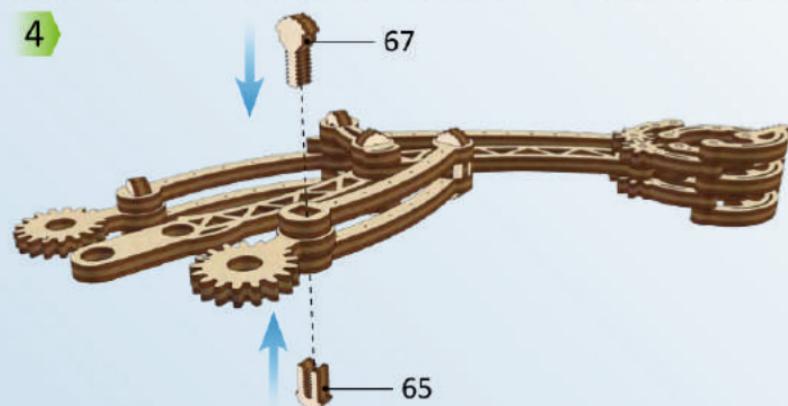
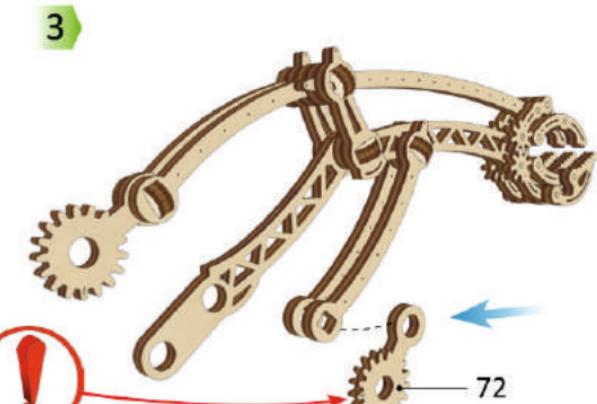
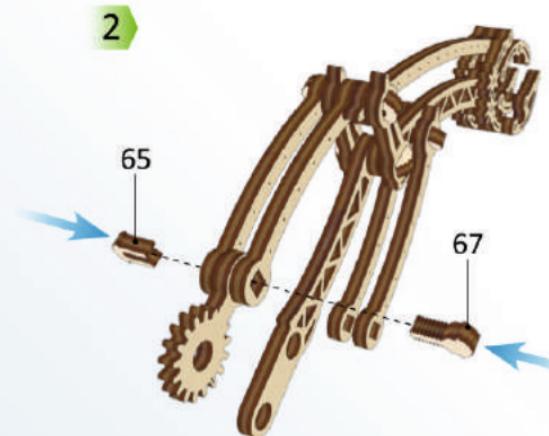
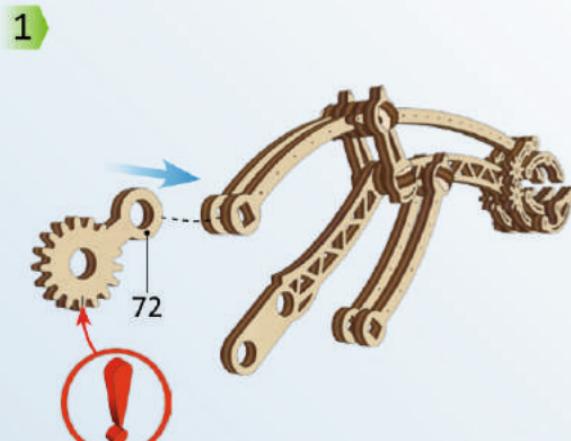




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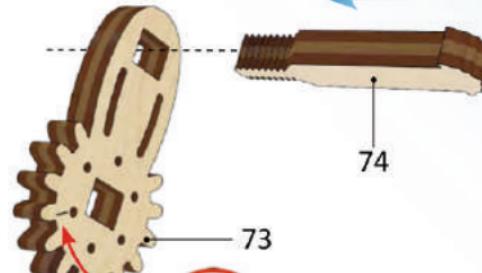




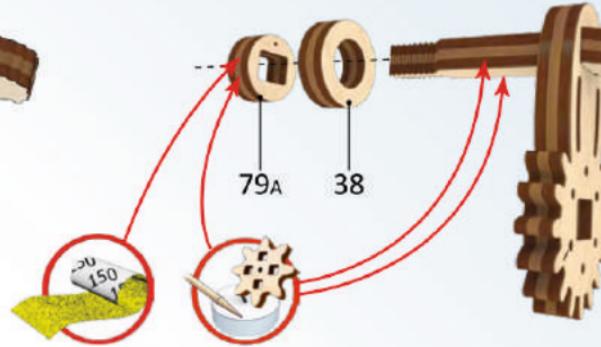




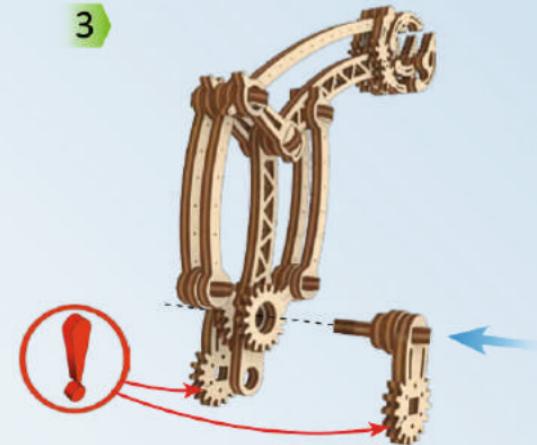
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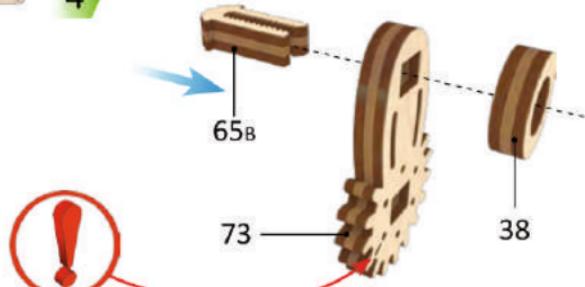
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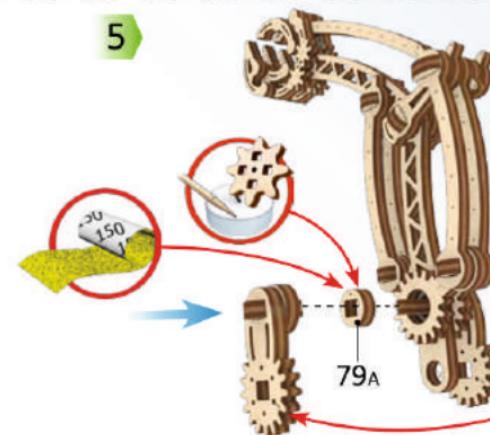
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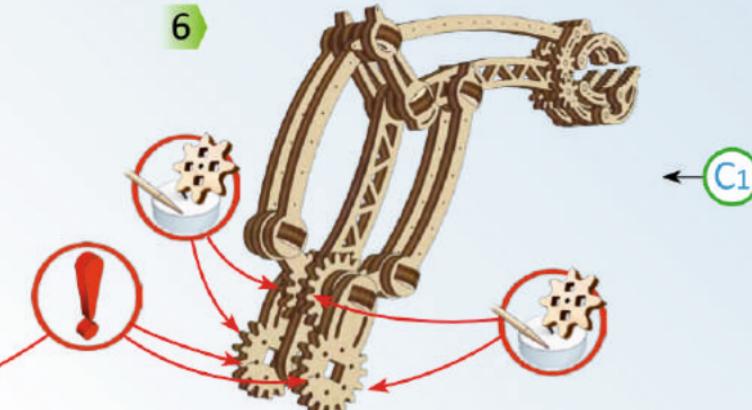
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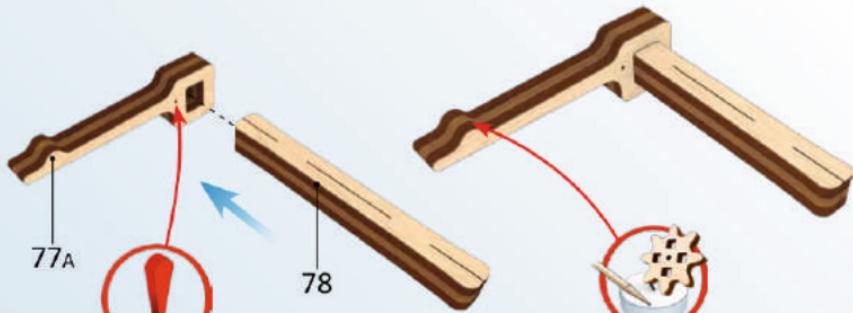


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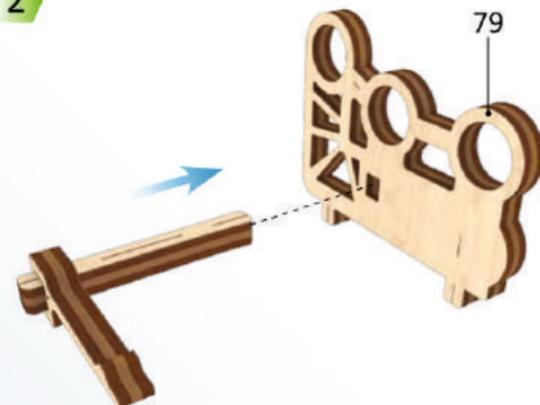




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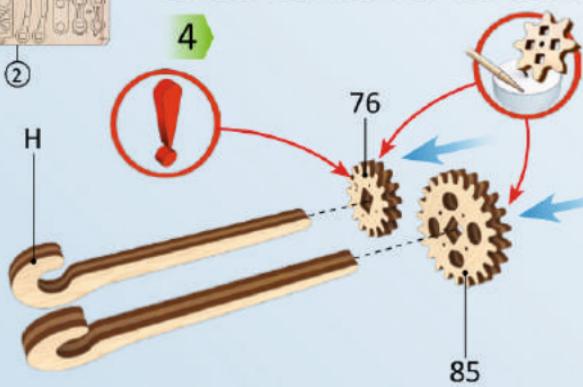
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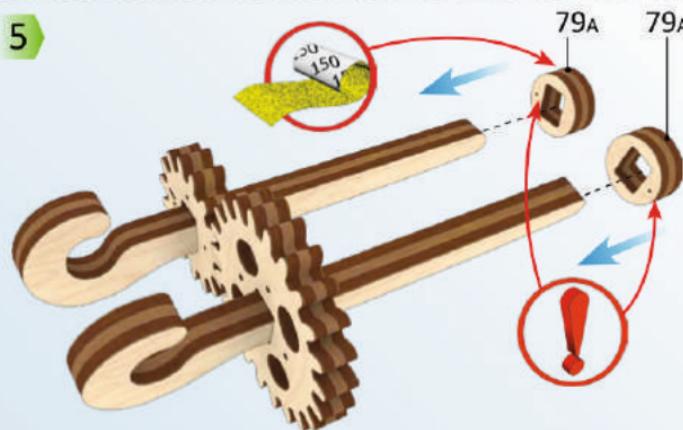
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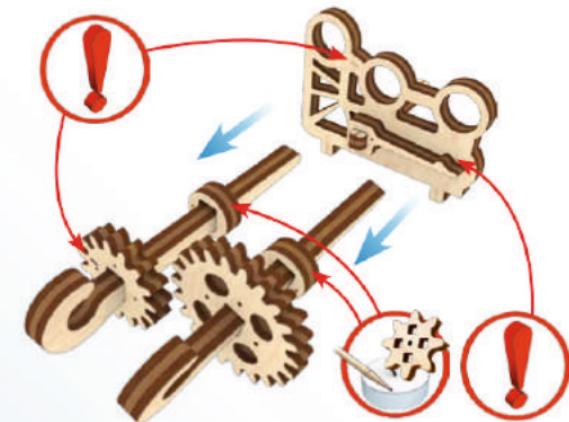
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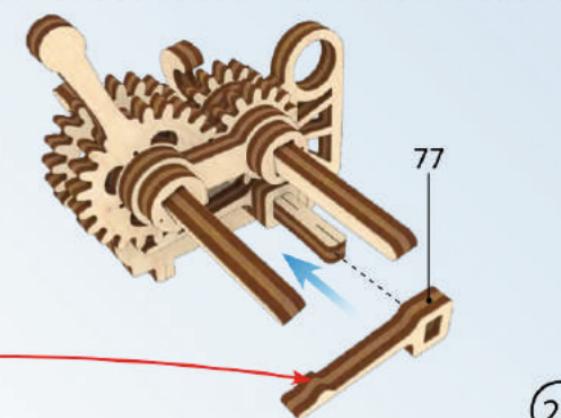
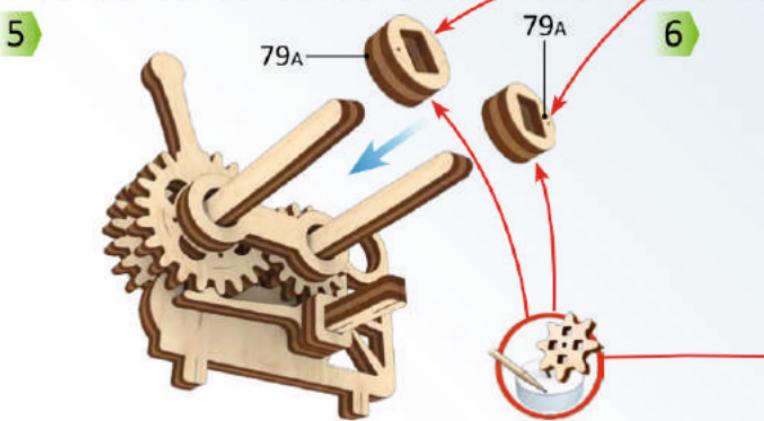
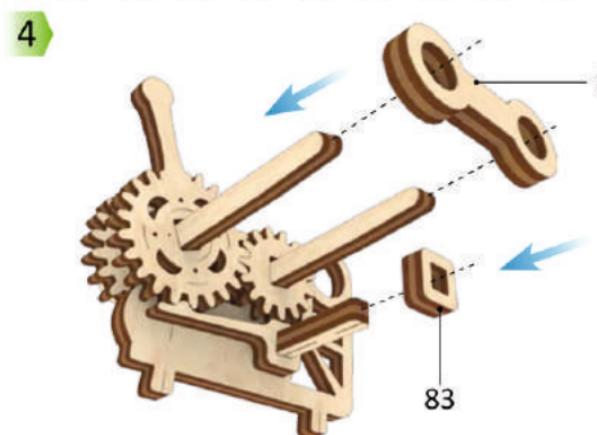
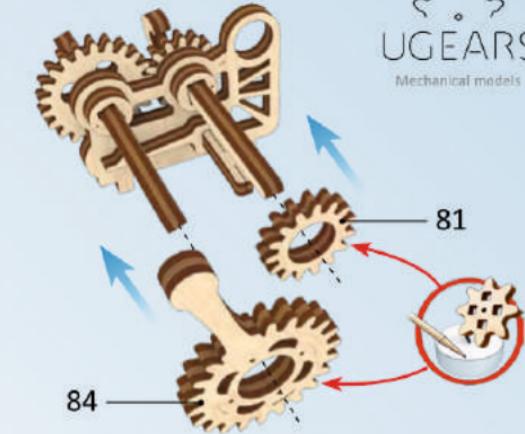
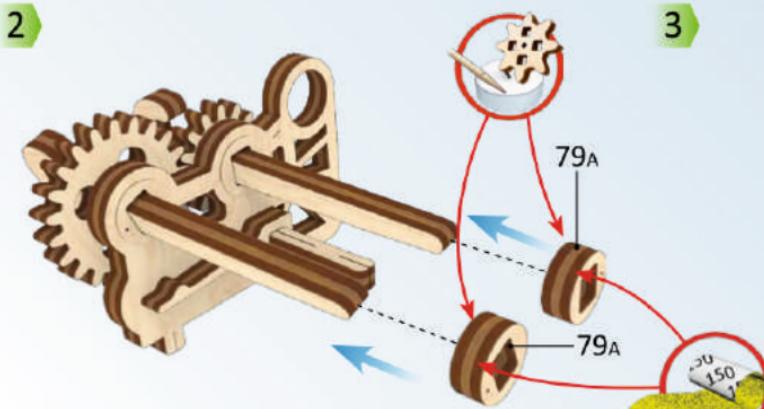
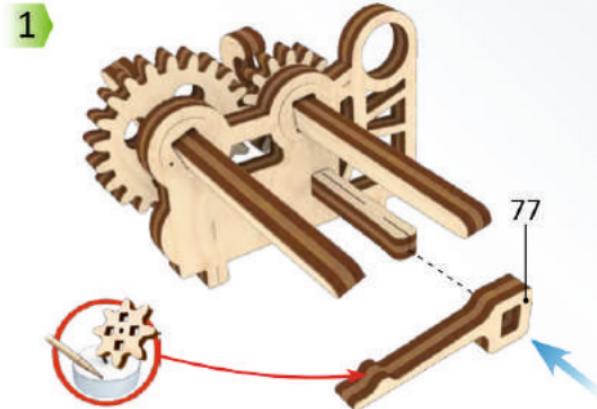


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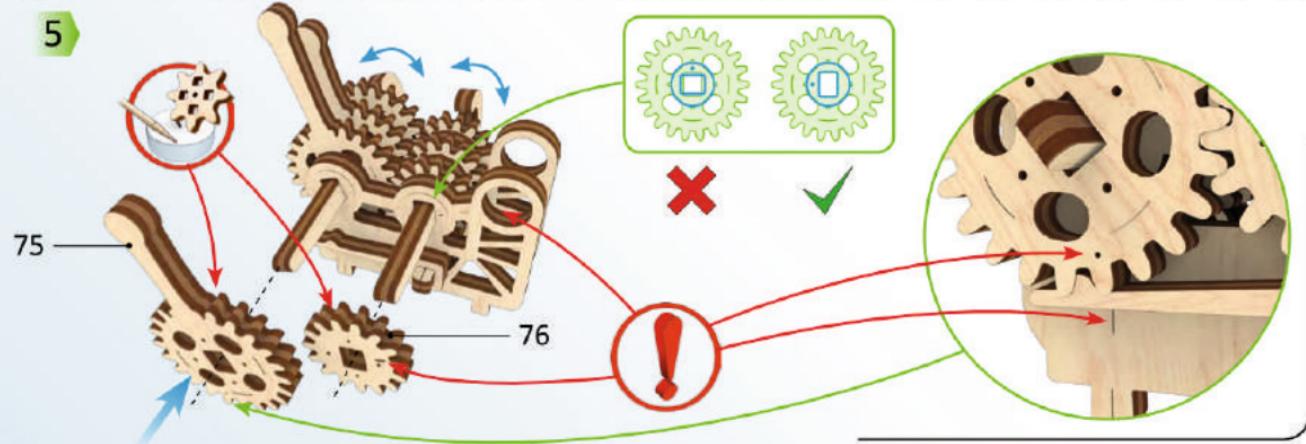
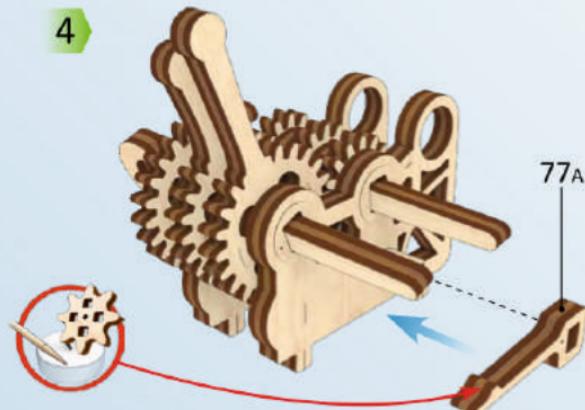
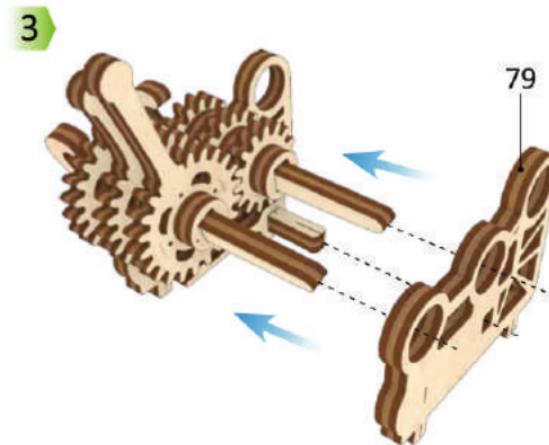
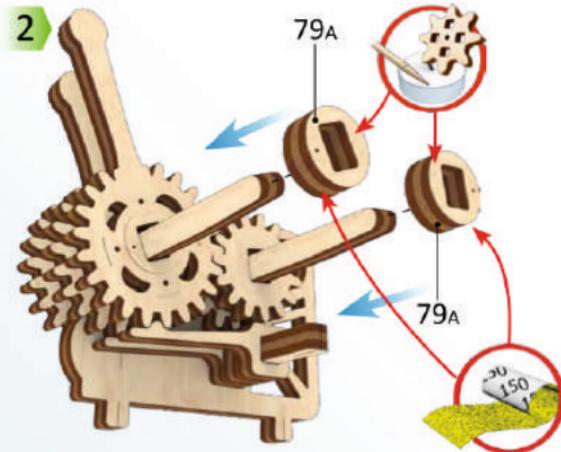
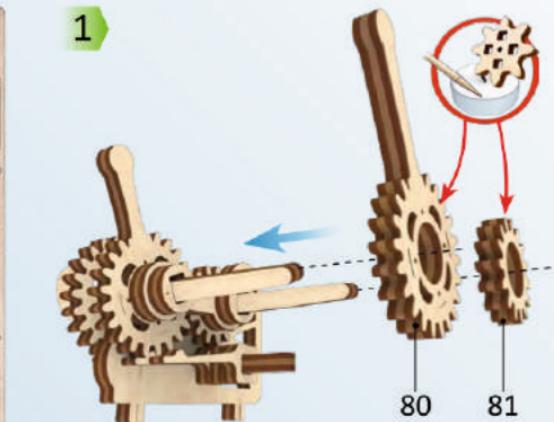


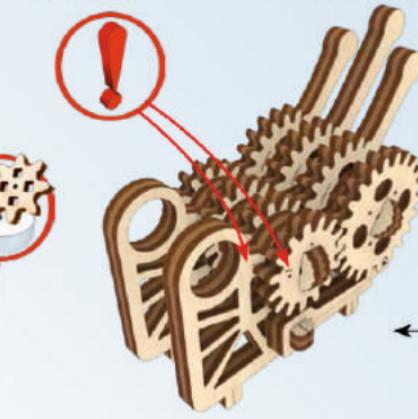
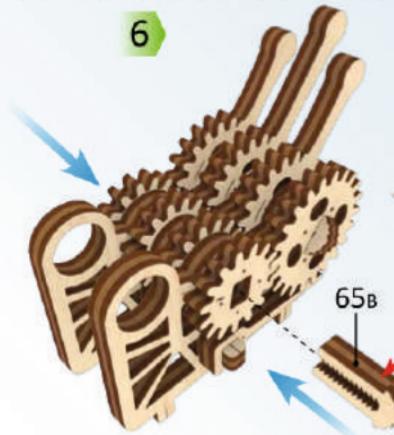
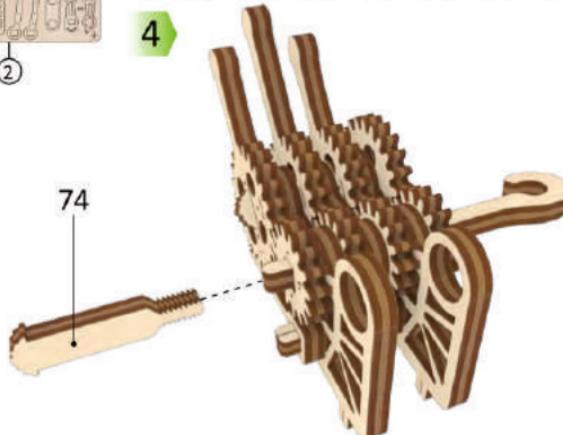
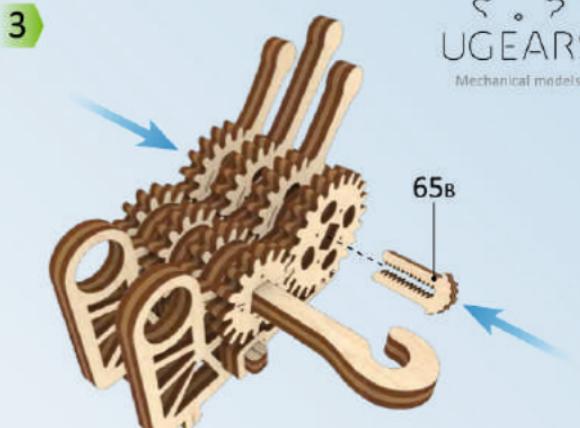
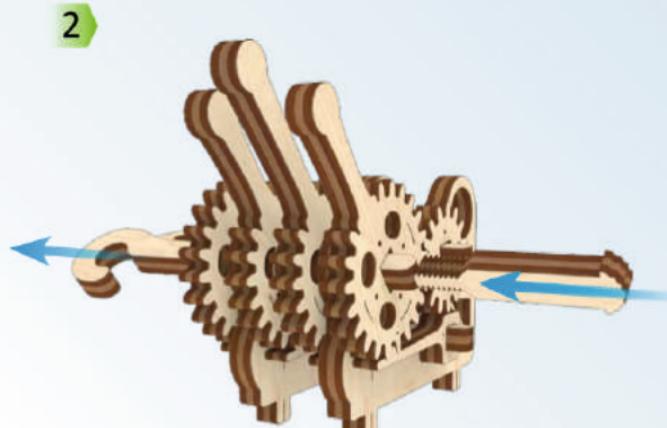
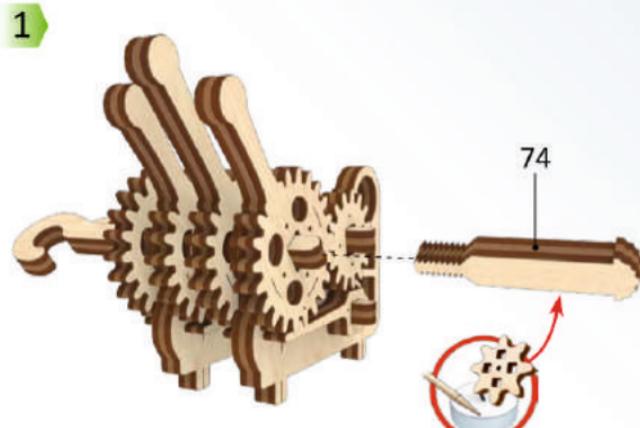
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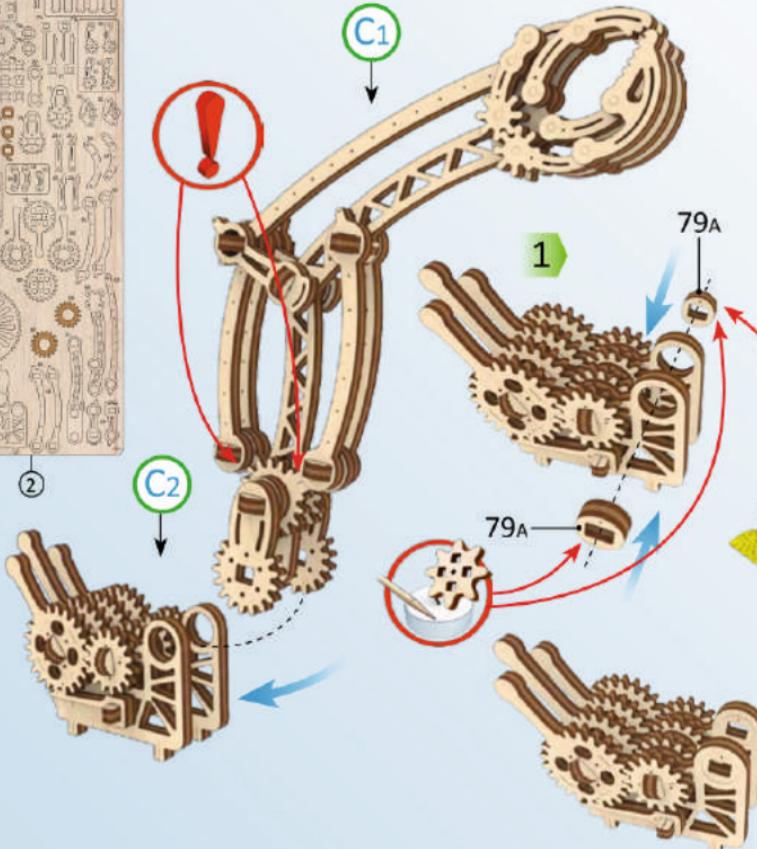
Mechanical Models



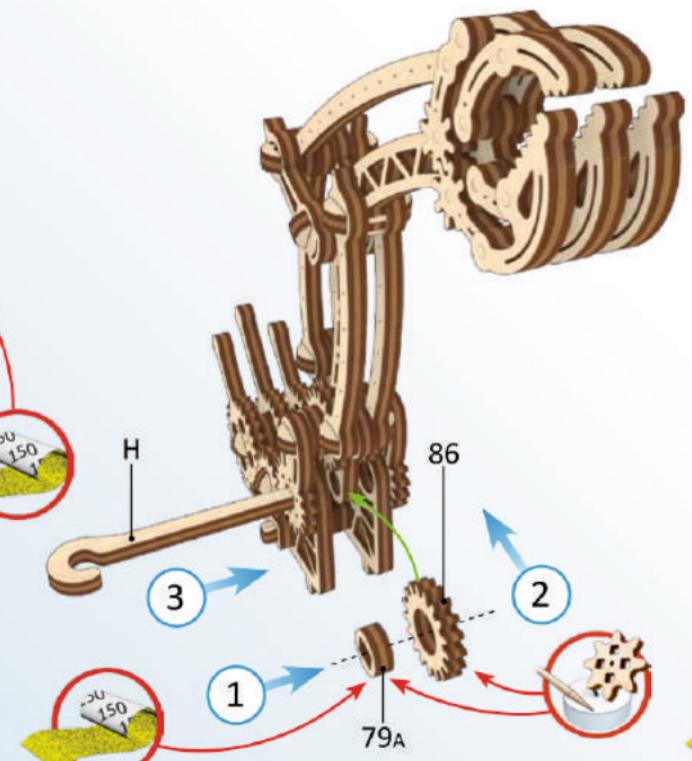




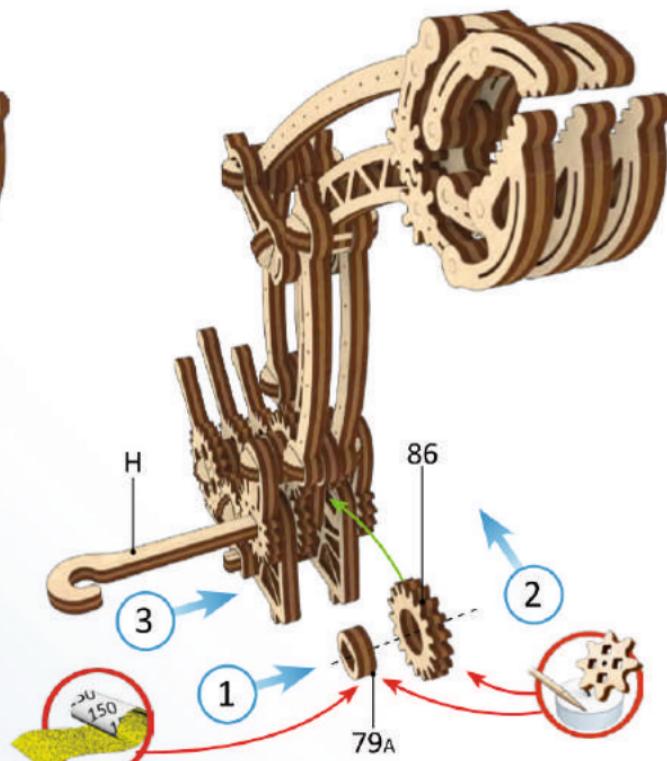
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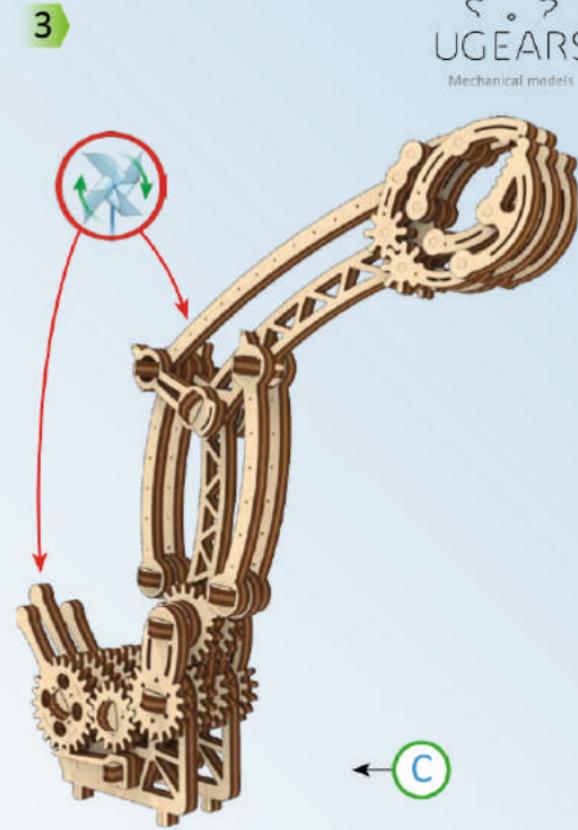
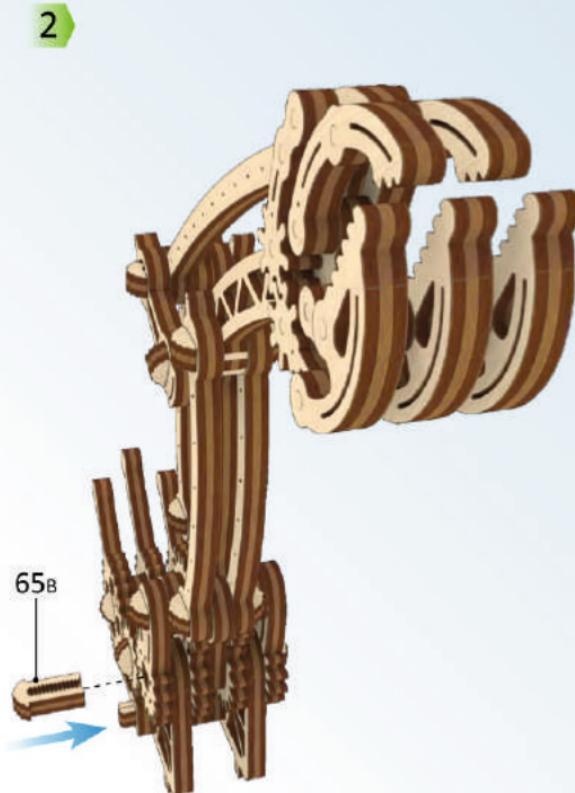
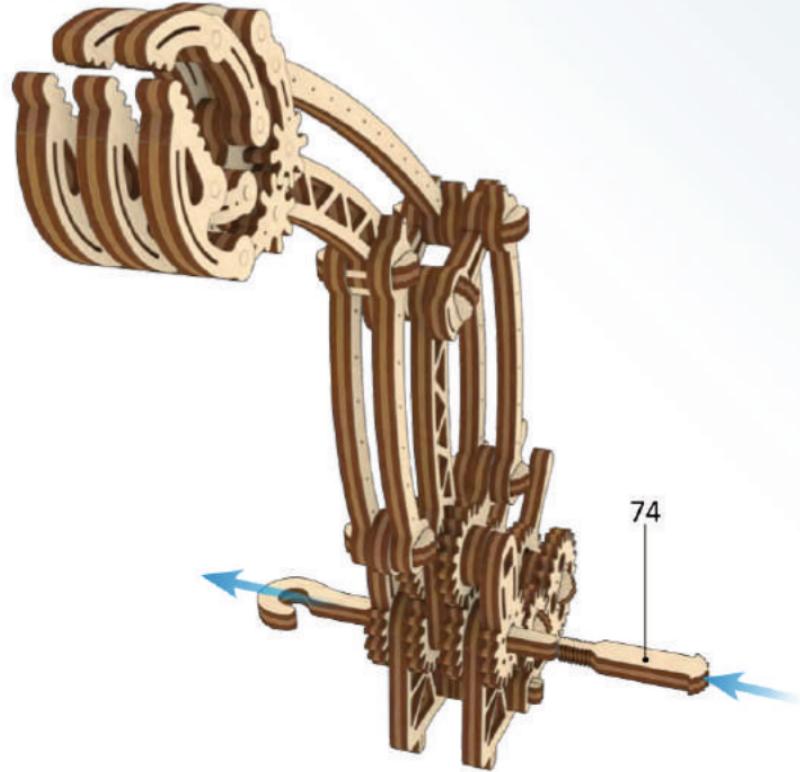
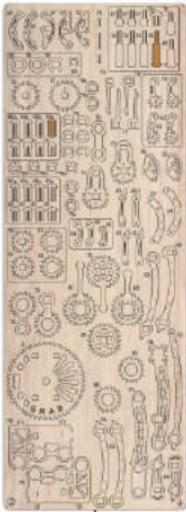


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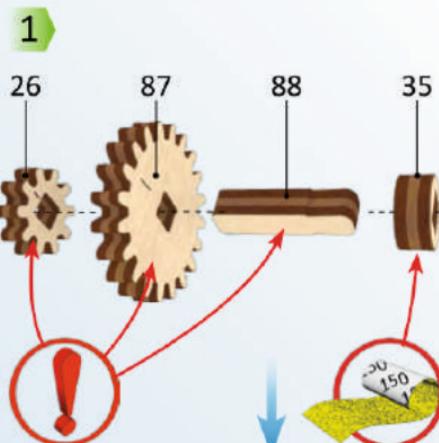


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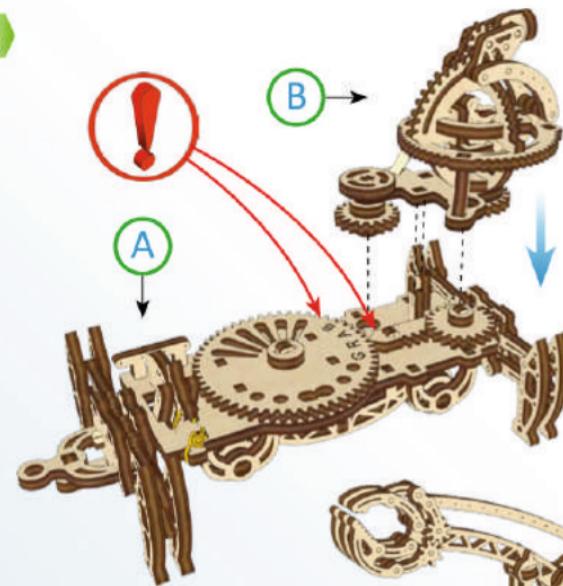




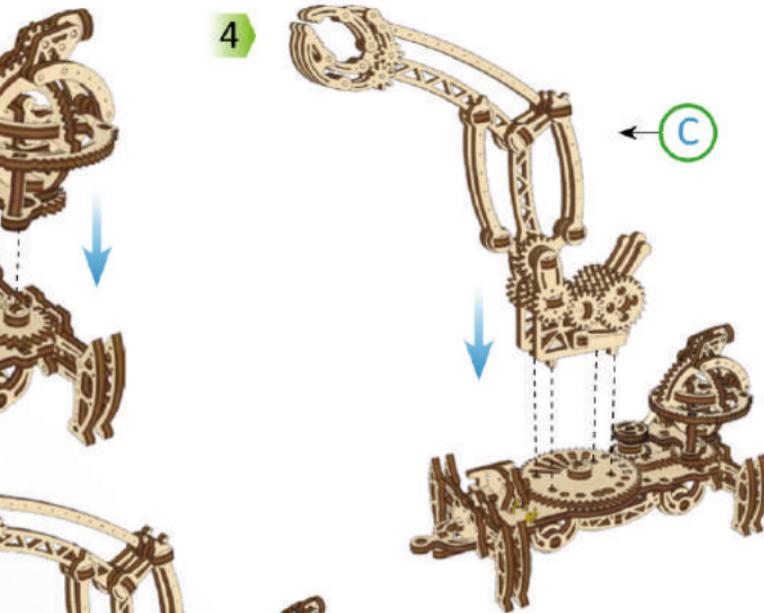
Mechanical Models



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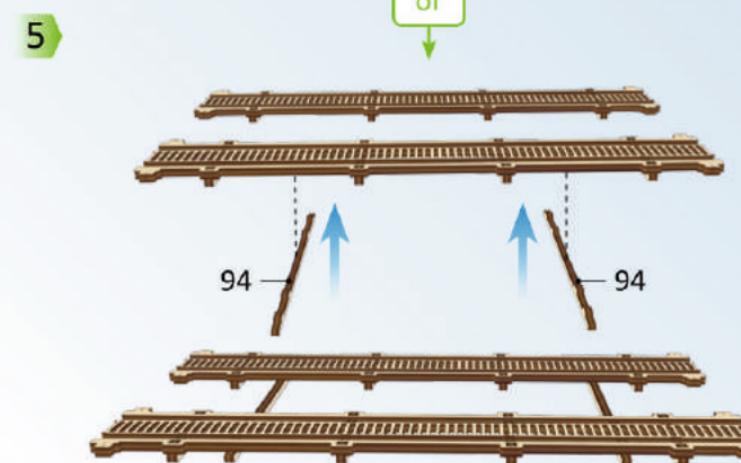
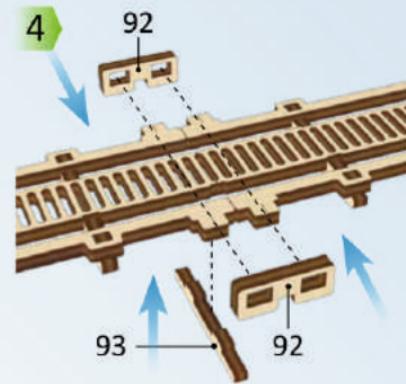
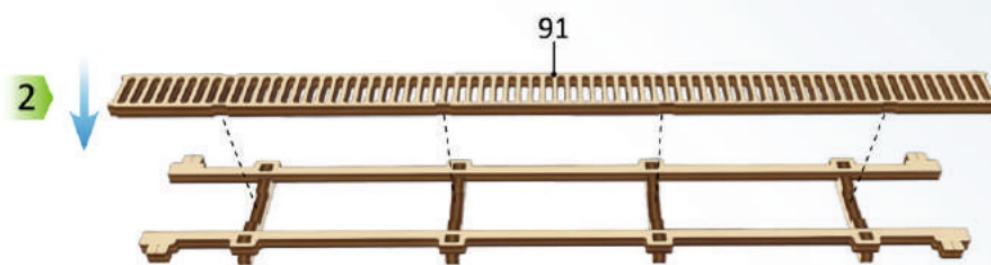
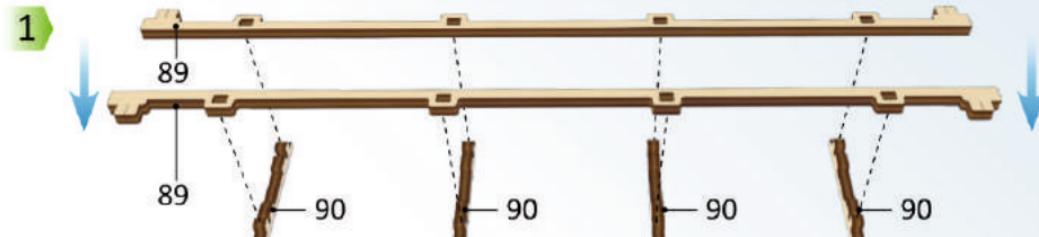


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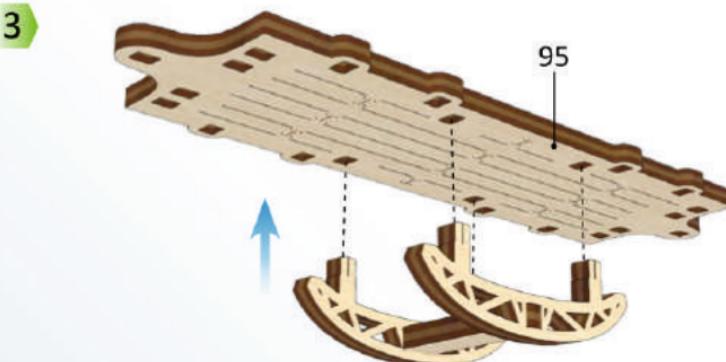
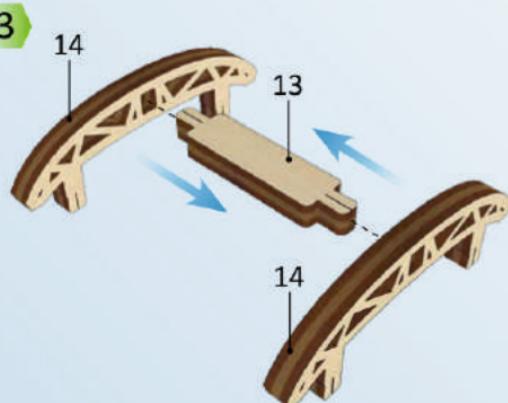
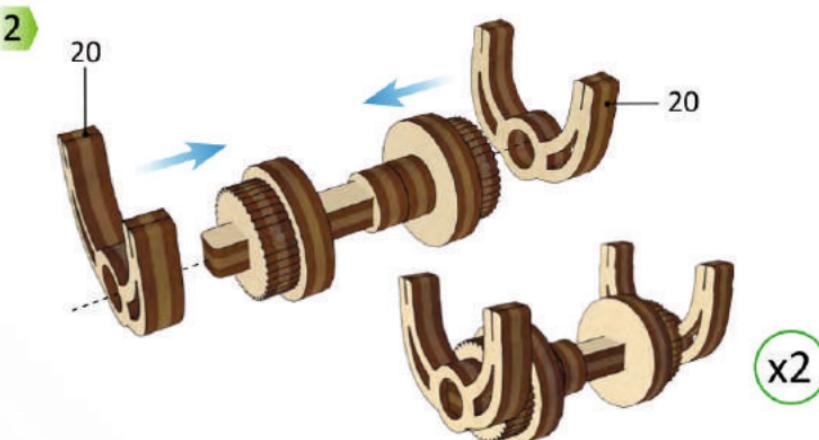
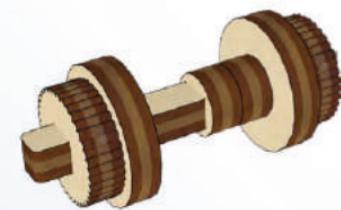
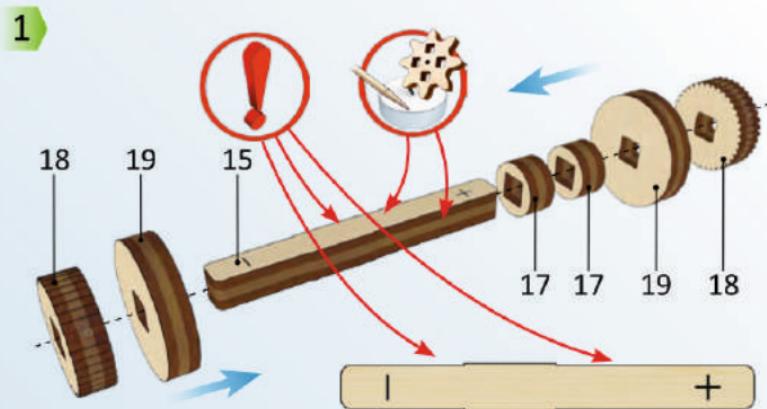


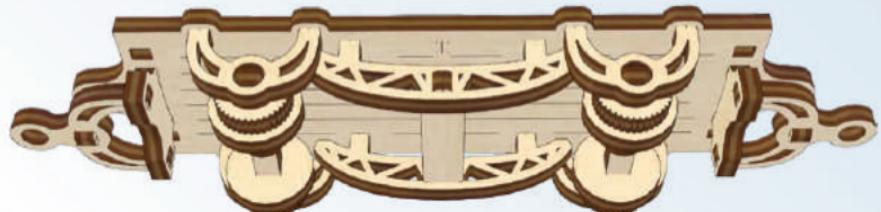
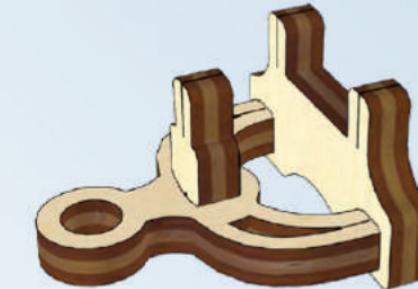
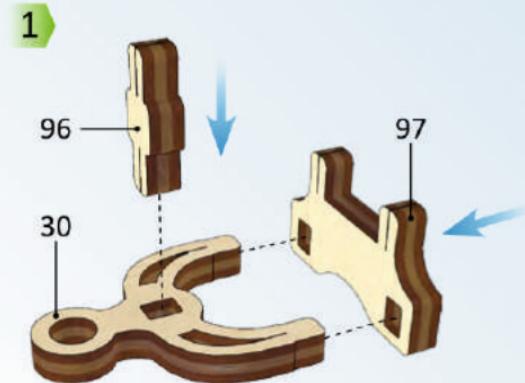
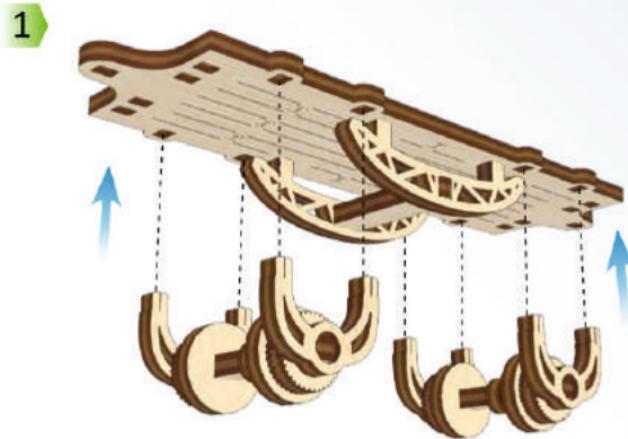
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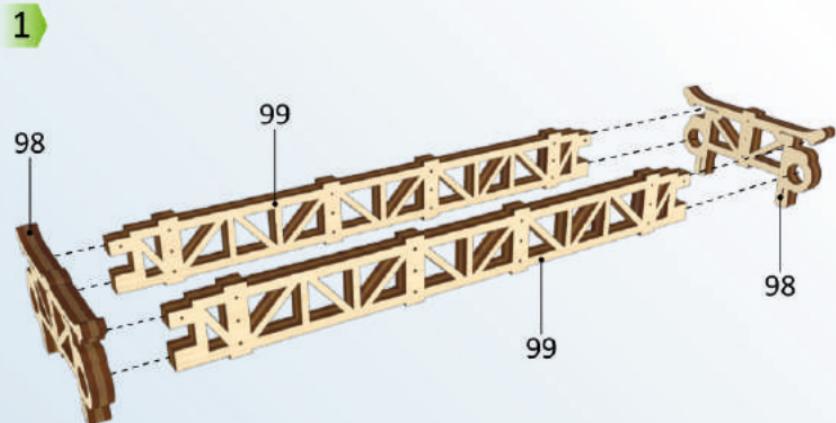
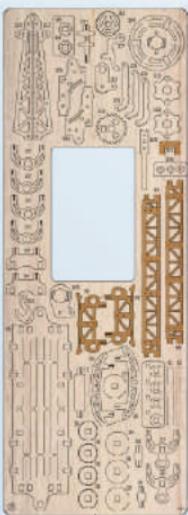


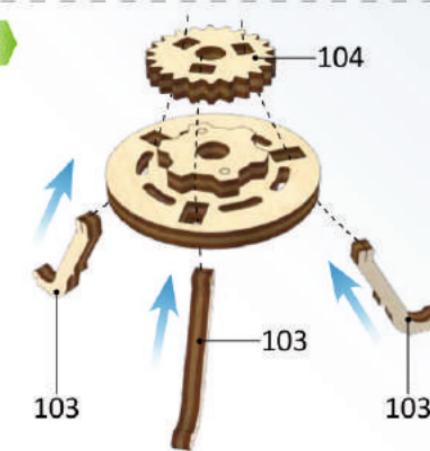
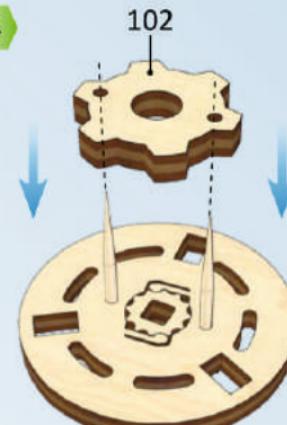
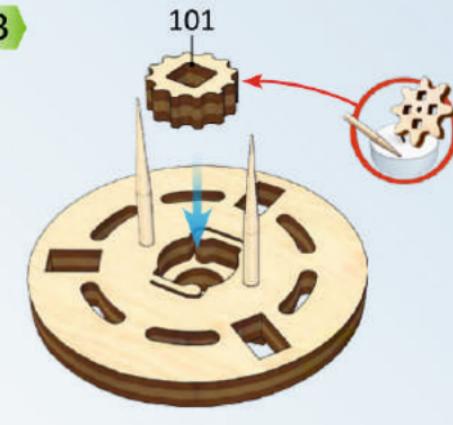
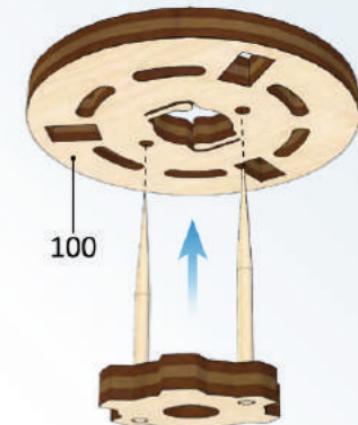
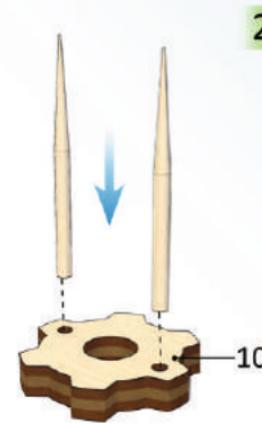
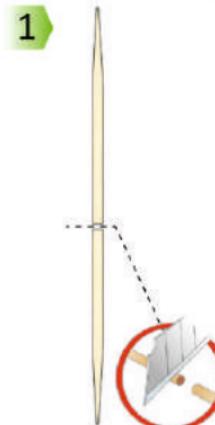
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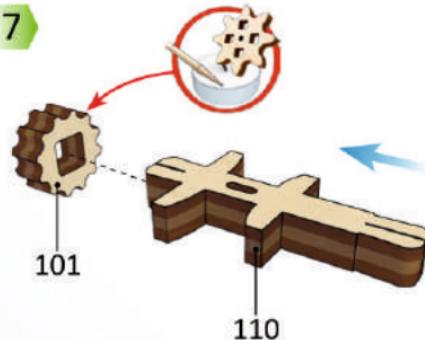
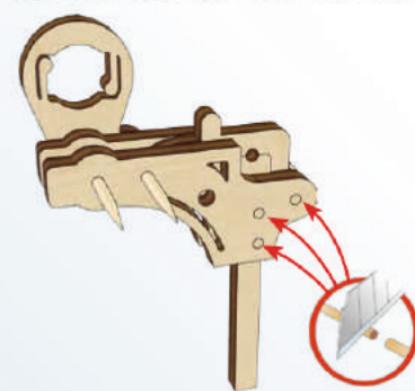
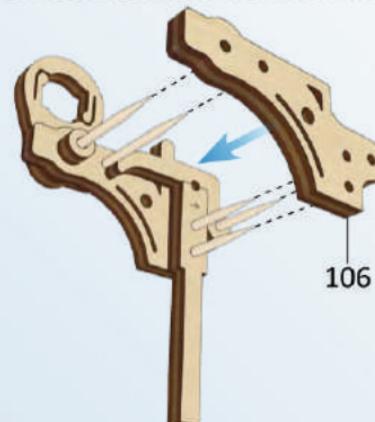
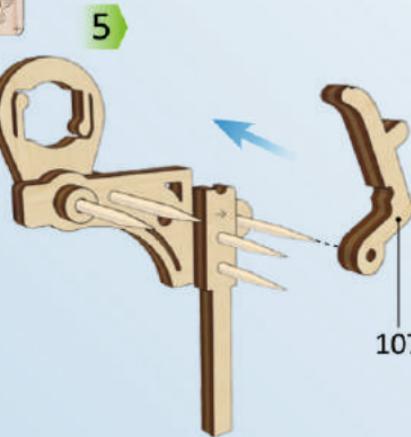
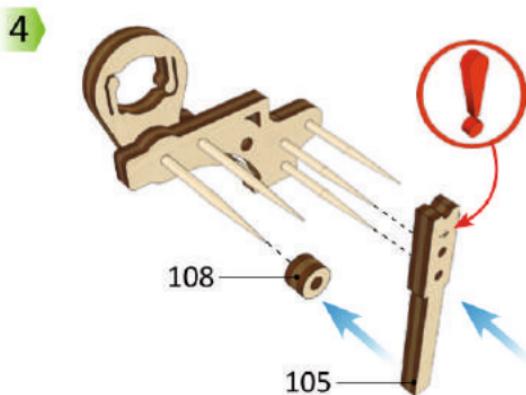
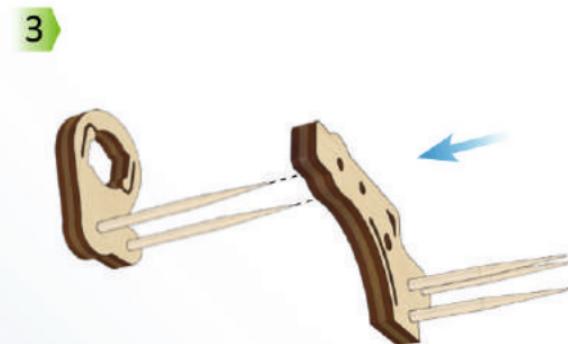
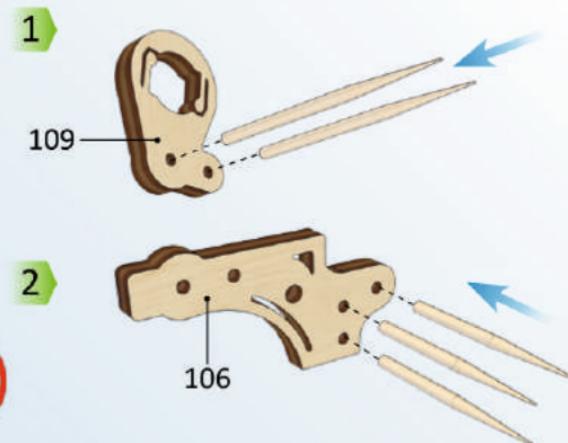
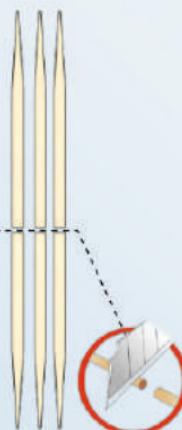


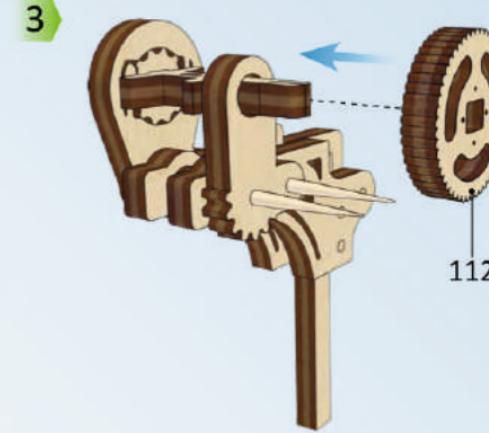
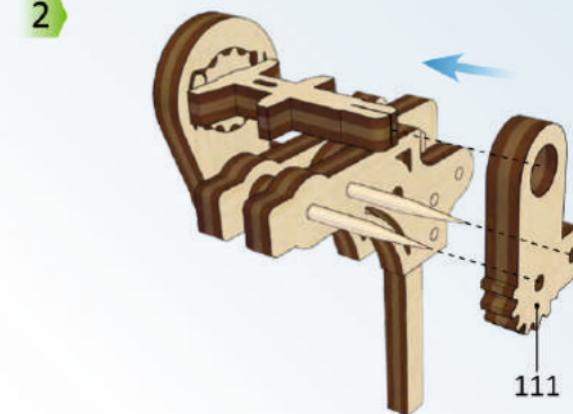
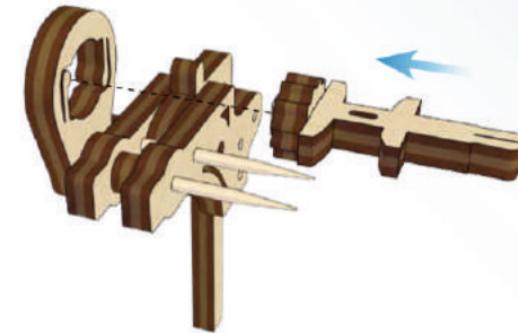
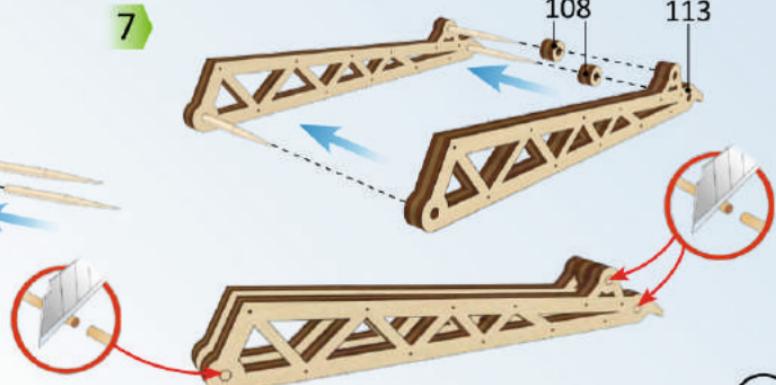
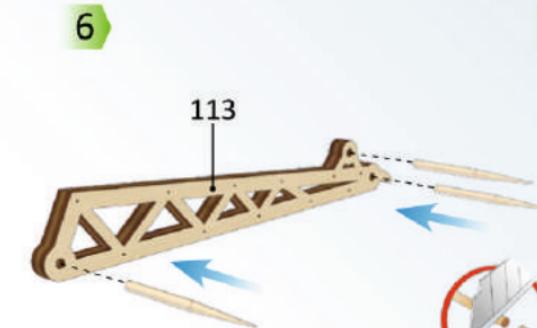
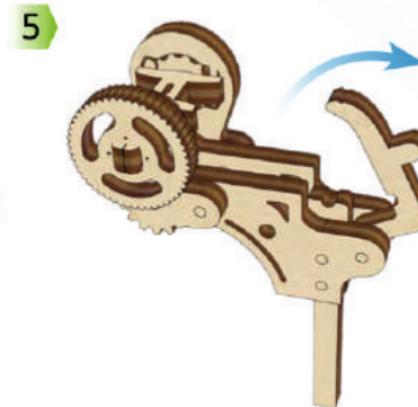
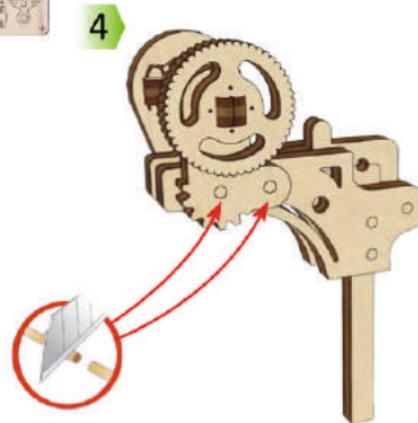
Mechanical Models



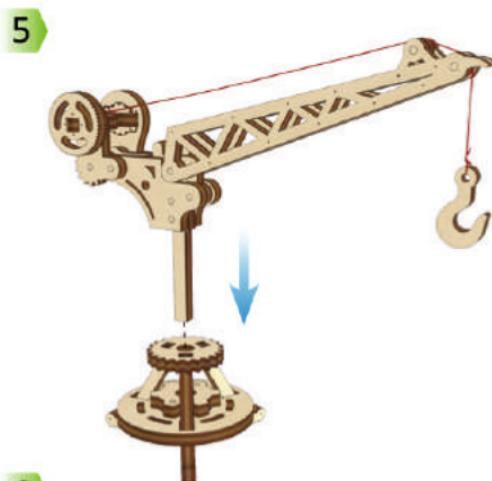
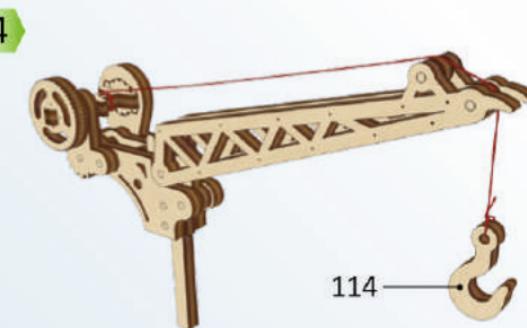
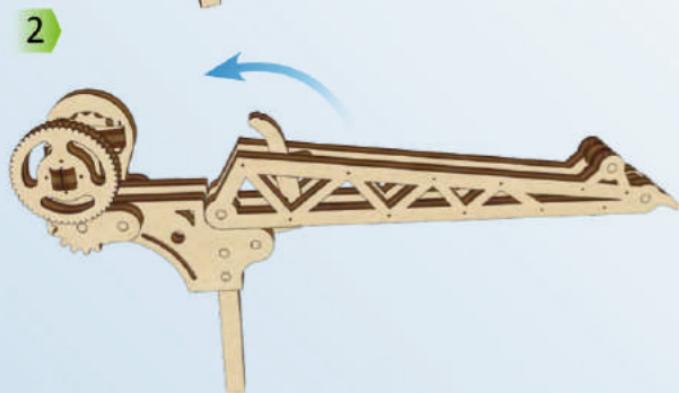
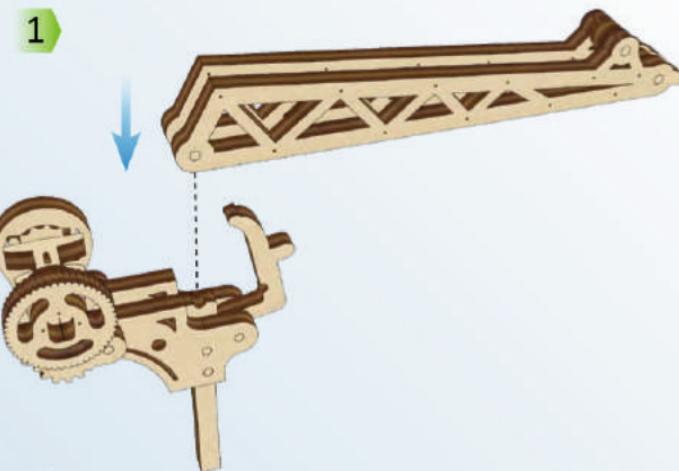


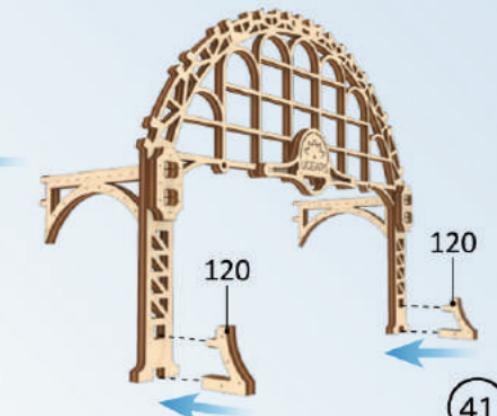
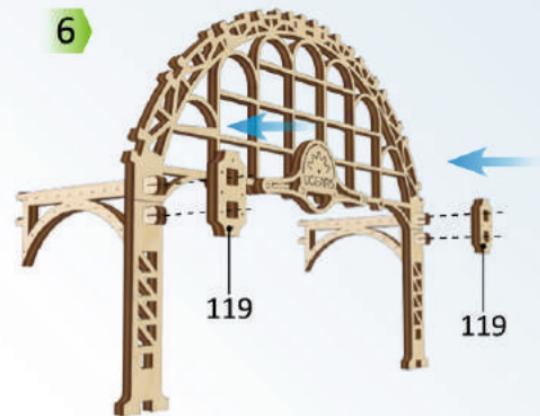
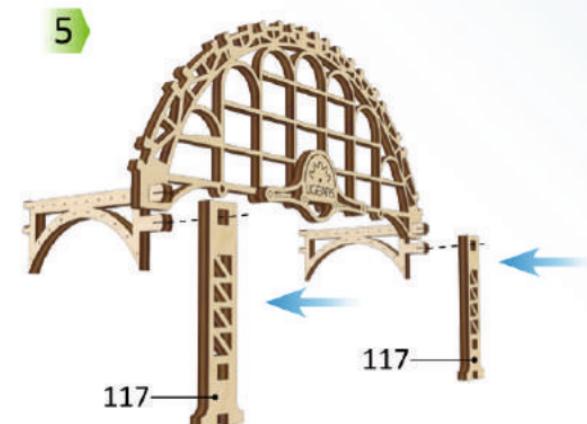
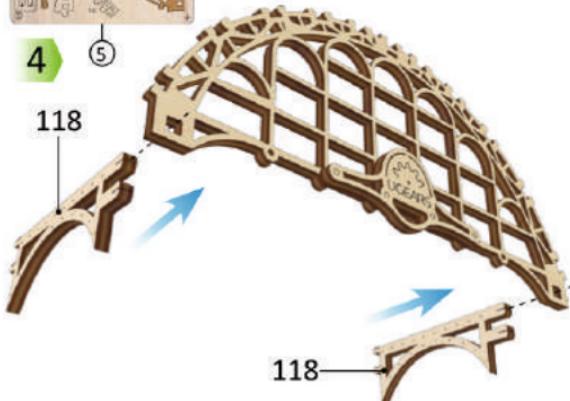
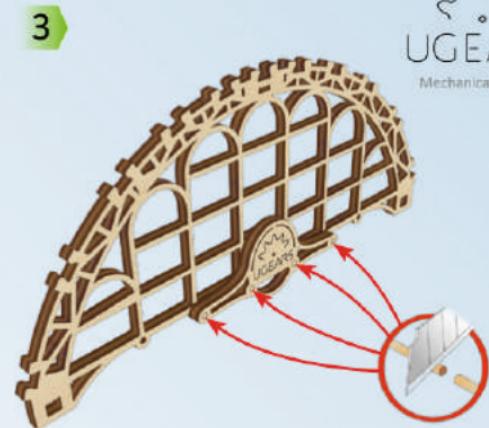
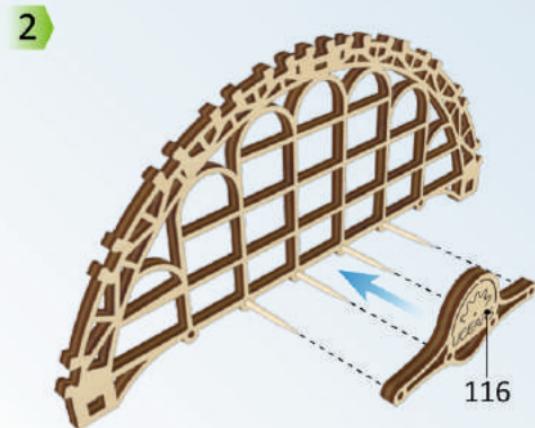
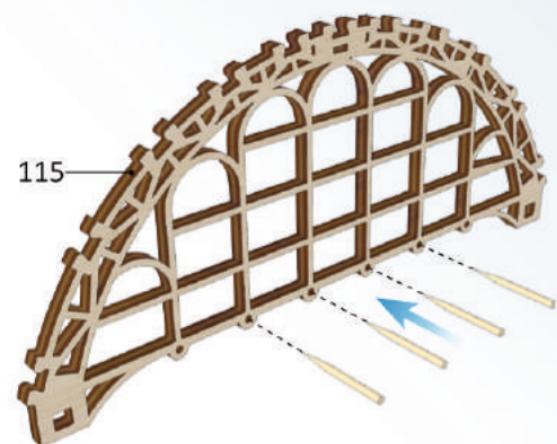
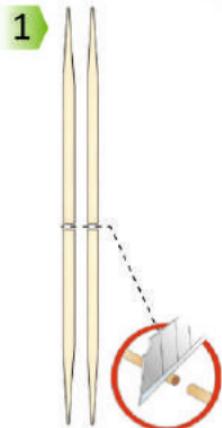
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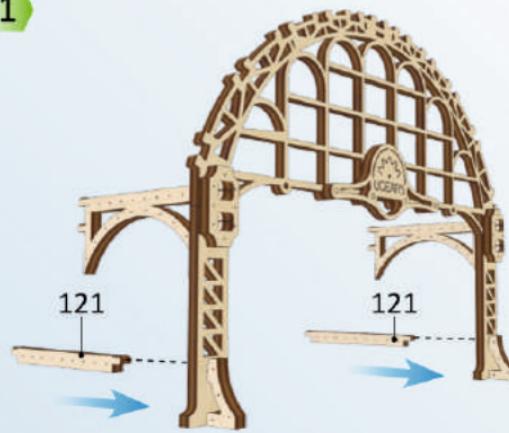




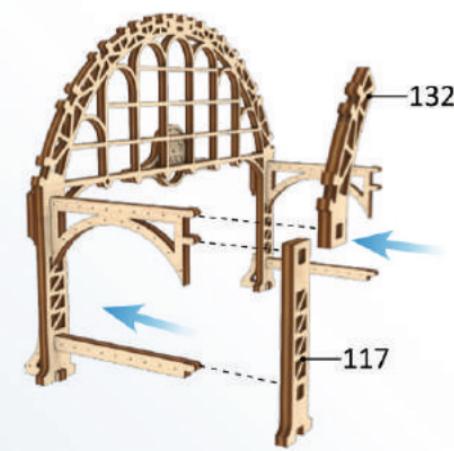
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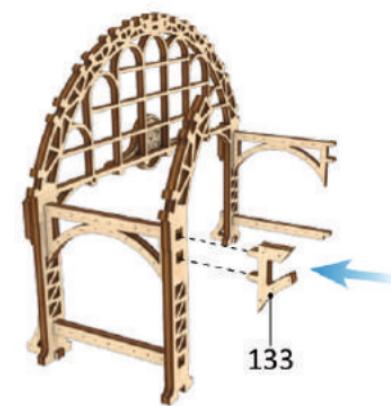
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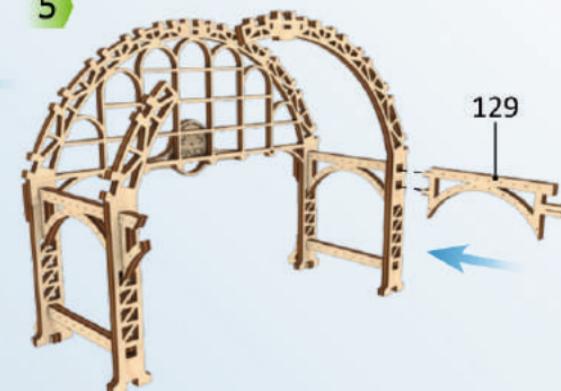
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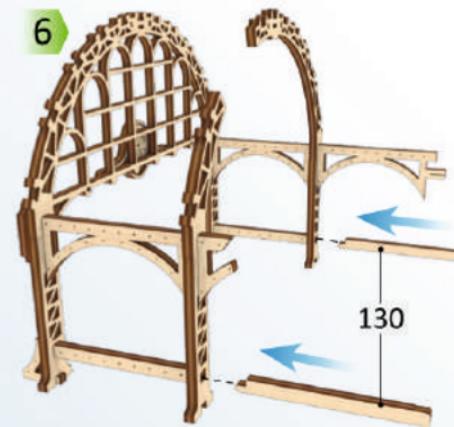
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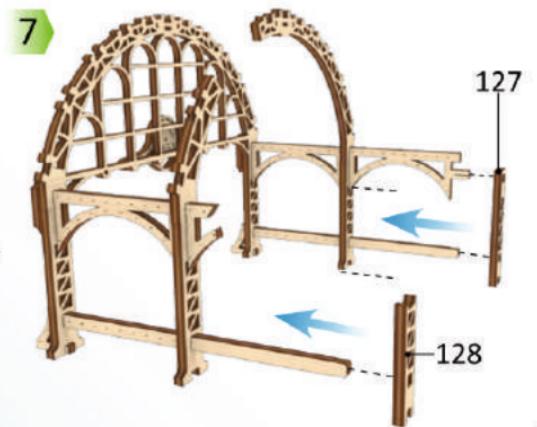
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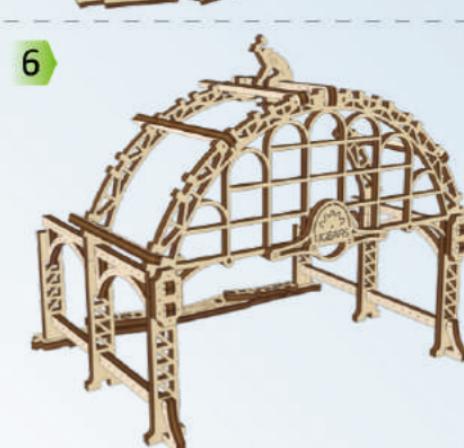
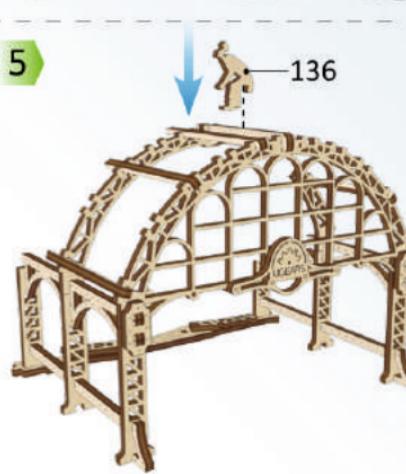
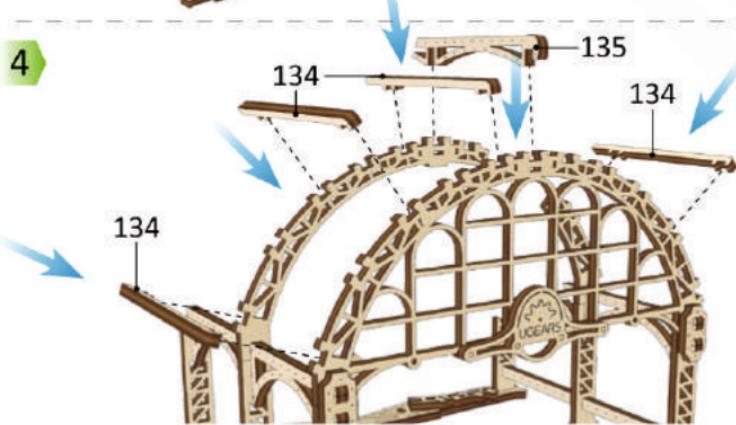
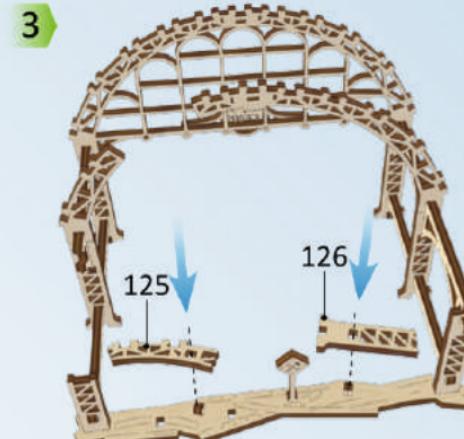
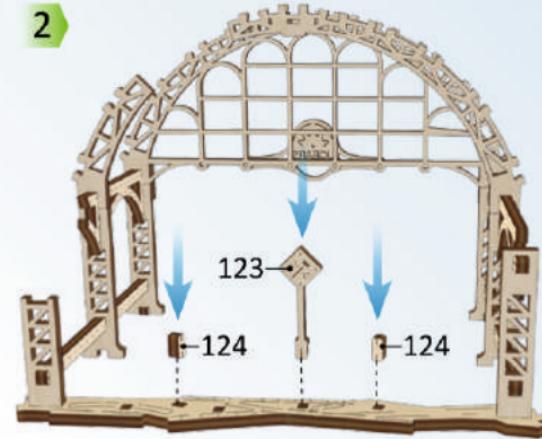
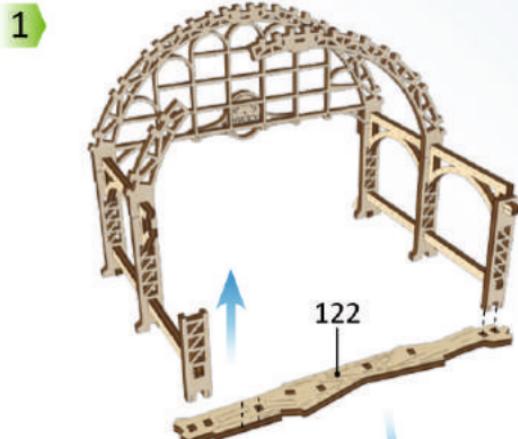


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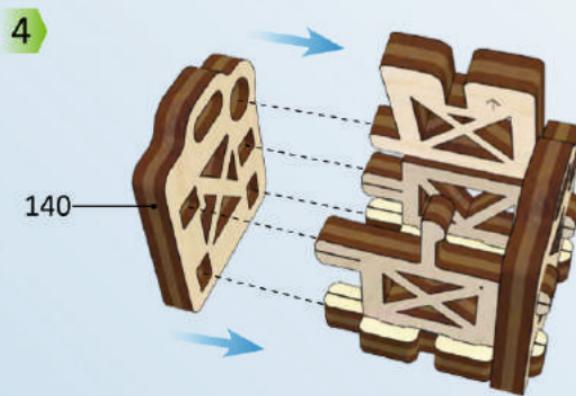
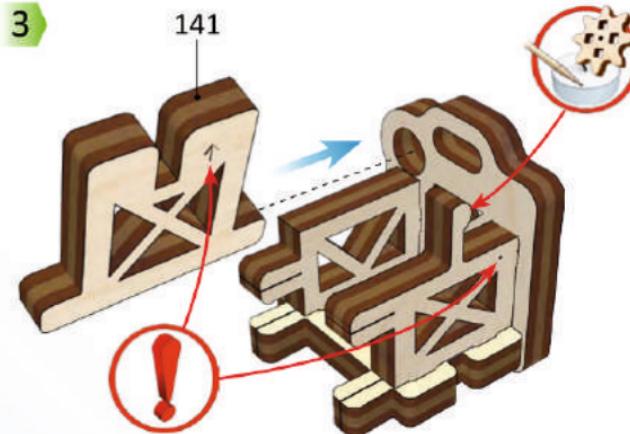
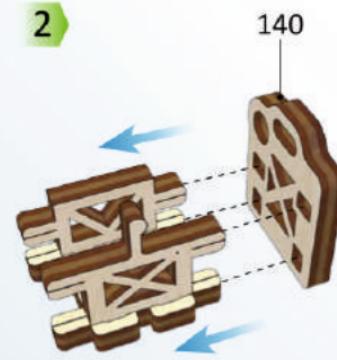
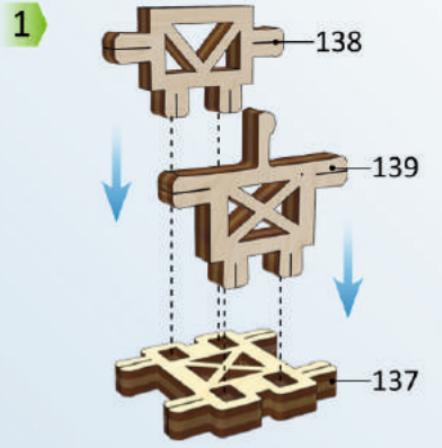




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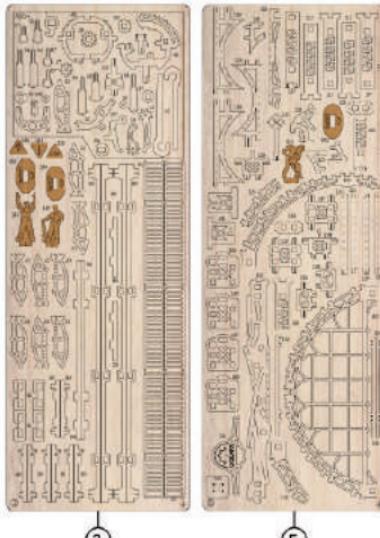


⑤



x2





1

147



143



145



2

149



150



148









ENG Thanks for following along on this journey with us. UKR Дякуємо, що ви пройшли цей шлях з нами. DEU Vielen Dank, dass Sie diesen Weg mit uns gegangen sind.
FRA Merci denous avoir accompagnés tout au long de ces étapes. POL Dziękujemy, że razem z nami pokonaleś tę drogę! SPA Gracias por haber recorrido el camino con nosotros. ITA Grazie per aver fatto questo percorso con noi. TUR Bizimle bu yolu geçtiğiniz için teşekkür ederiz. RUS Спасибо, что вы прошли этот путь с нами.
KOR UGEARS와 함께해 주셔서 감사합니다. CHI 感谢您参与有趣的模型配装过程。

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