




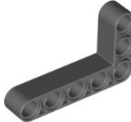
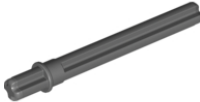

# PHIRO - OCTOPOD




  
ROBOTIX  
U.S.A.





# PARTS LIST

SL. NO.	PART NAME	PART NUMBER	IMAGE	QUANTITY
1	Gear Wheel T=24	4211565		08
2	Gear Wheel T=8, M=1	4211432		08
3	Cross Axle, Extension M/3 Ribs	4210672		01
4	TECHNIC Angular Beam 3X5 90 Deg.	4210753		4
5	Cross Axle 5,5 With Stop 1M	4508553		2
6	Bion. Eye	4281515		8

SL. NO.	PART NAME	PART NUMBER	IMAGE	QUANTITY
7	Connector Peg/Cross Axle	4186017		32
8	Connector Peg W. Friction 3M	4514553		2
9	Angle Element, 0 Degrees [1]	4107085		16
10	Cross Axle 10M	373726		8
11	Cross Axle 8M	370626		2
12	Angular Beam 90 Degrees W.4 Snaps	4296059		2
13	BUSH for Cross Axle	4211622		2

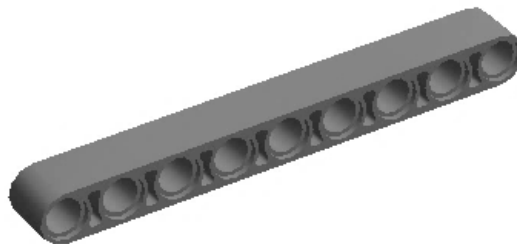
SL. NO.	PART NAME	PART NUMBER	IMAGE	QUANTITY
14	TECHNIC 9M Beam	4297202		2
15	TECHNIC 15M Beam	4548305		4
16	TECHNIC 3M Beam	4210751		2
17	CONNECTOR PEG W, FRICTION	4121715		8
18	Light Gray Pin without Friction Ridges	4211807		8



01



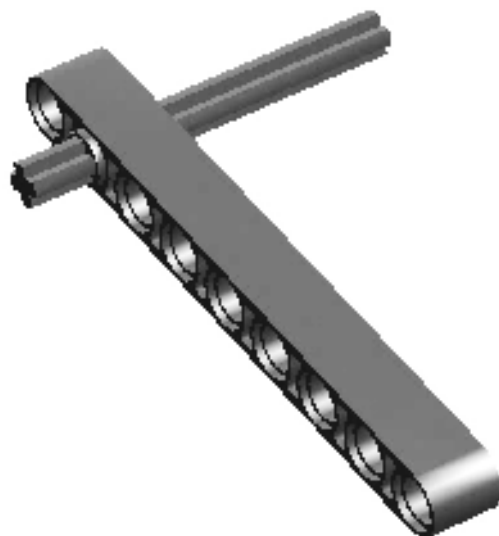
TECHNIC BEAM 9M (x 1)



02



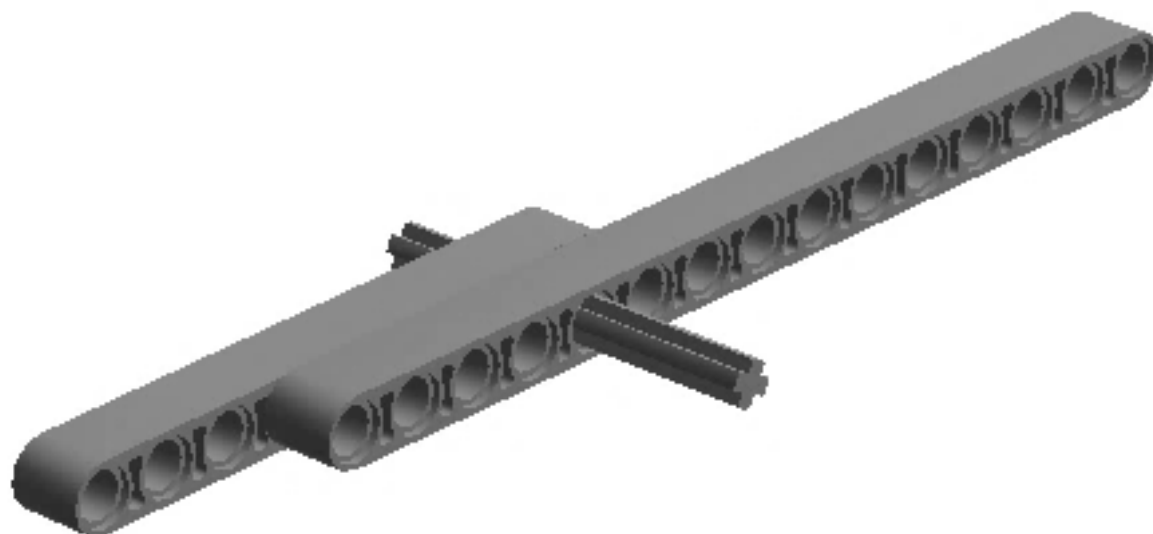
Cross Axle 5,5 With Stop 1M (x1)



03



Beam 15M (x 1)

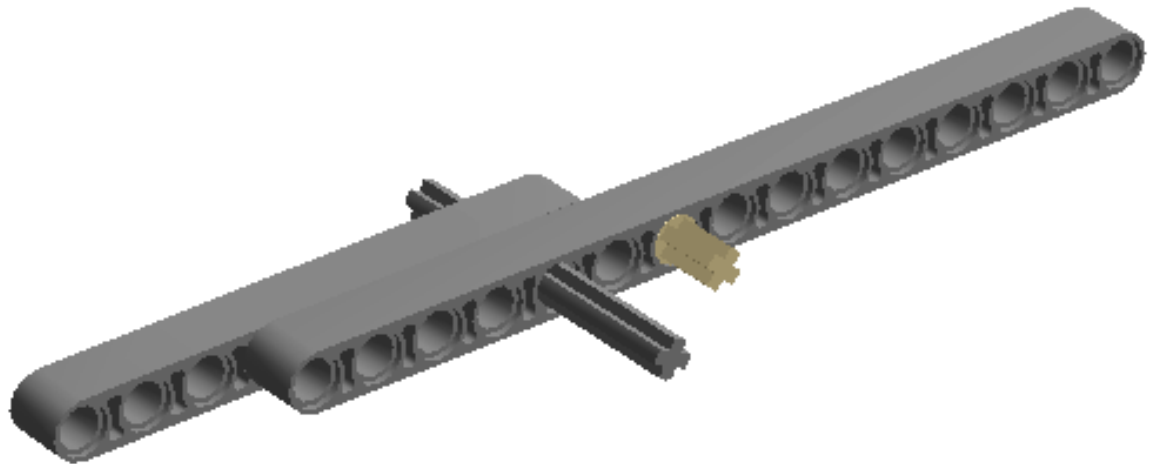




04



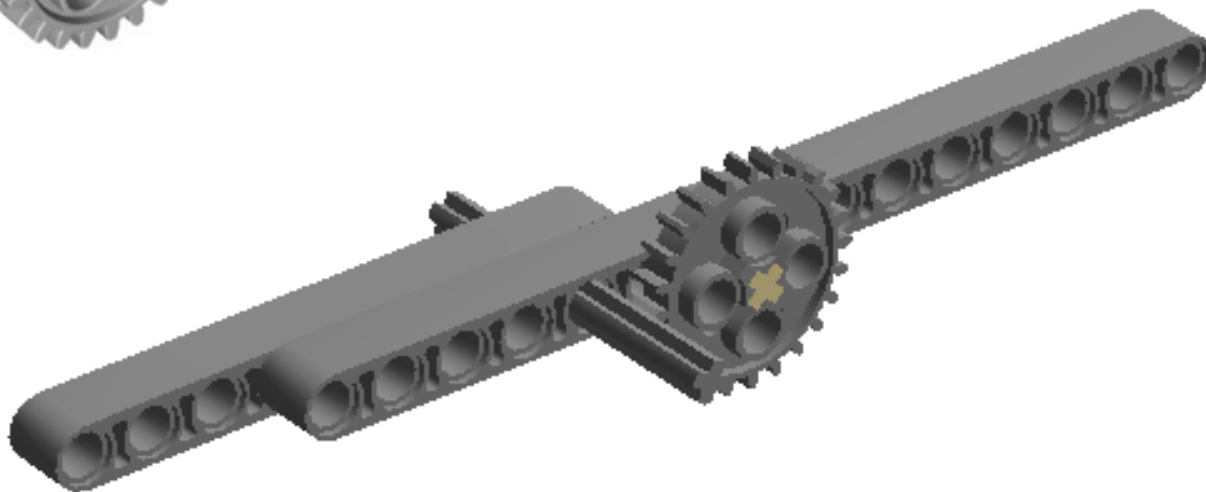
Connector Peg/Cross Axle (x1)



05



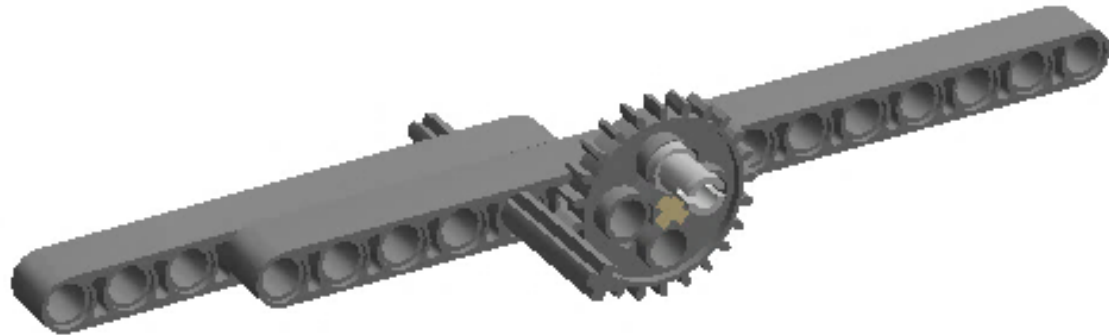
Gear Wheel T = 24 (x1)



06



Light Gray Pin without Friction Ridges (x1)

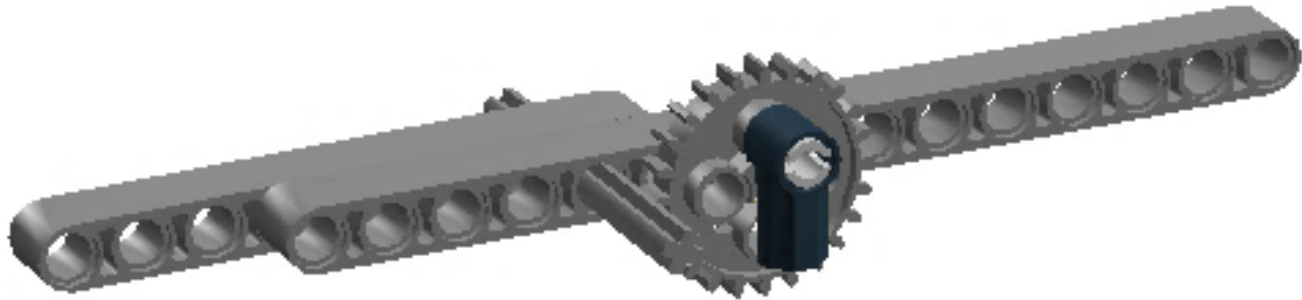




07



Angle Element, 0 Degrees [1] (x1)



08



09

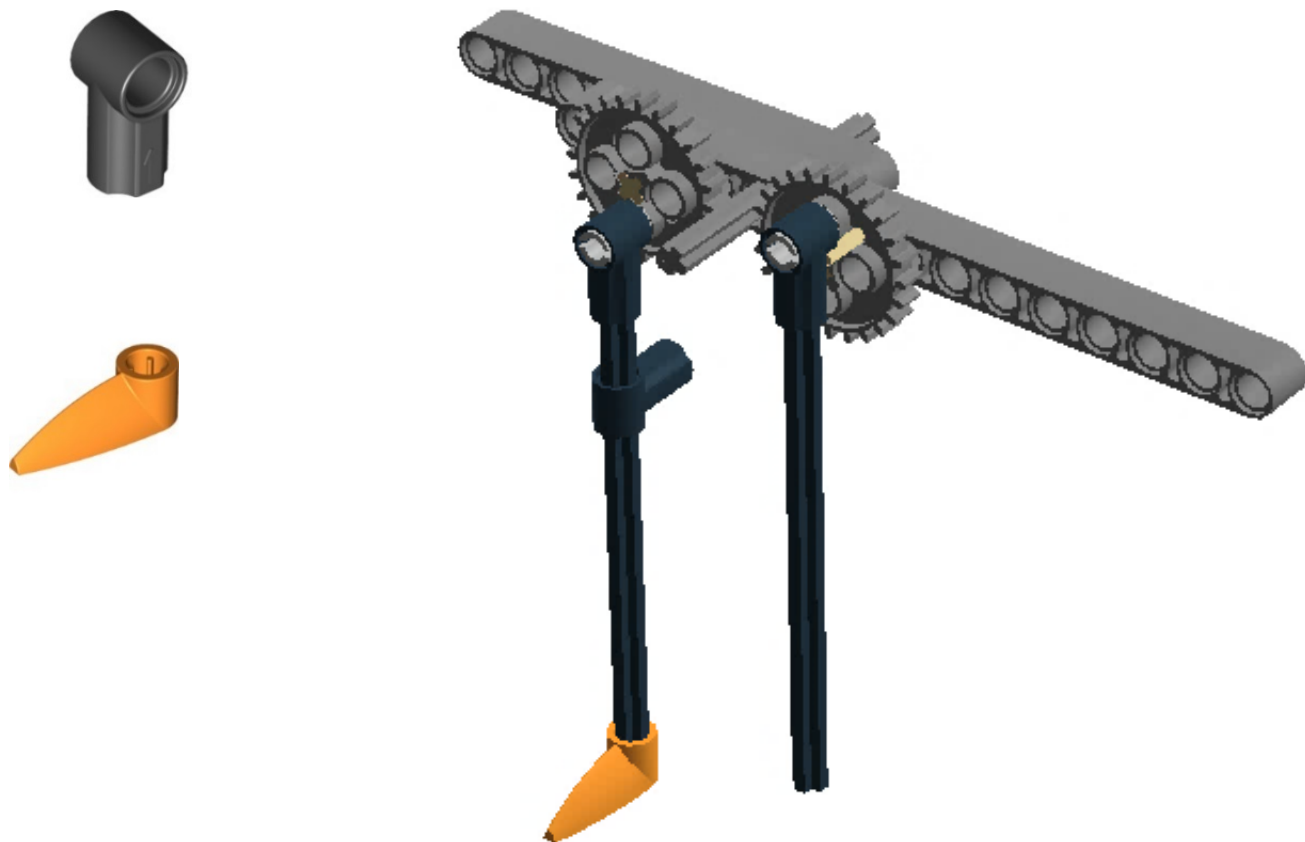




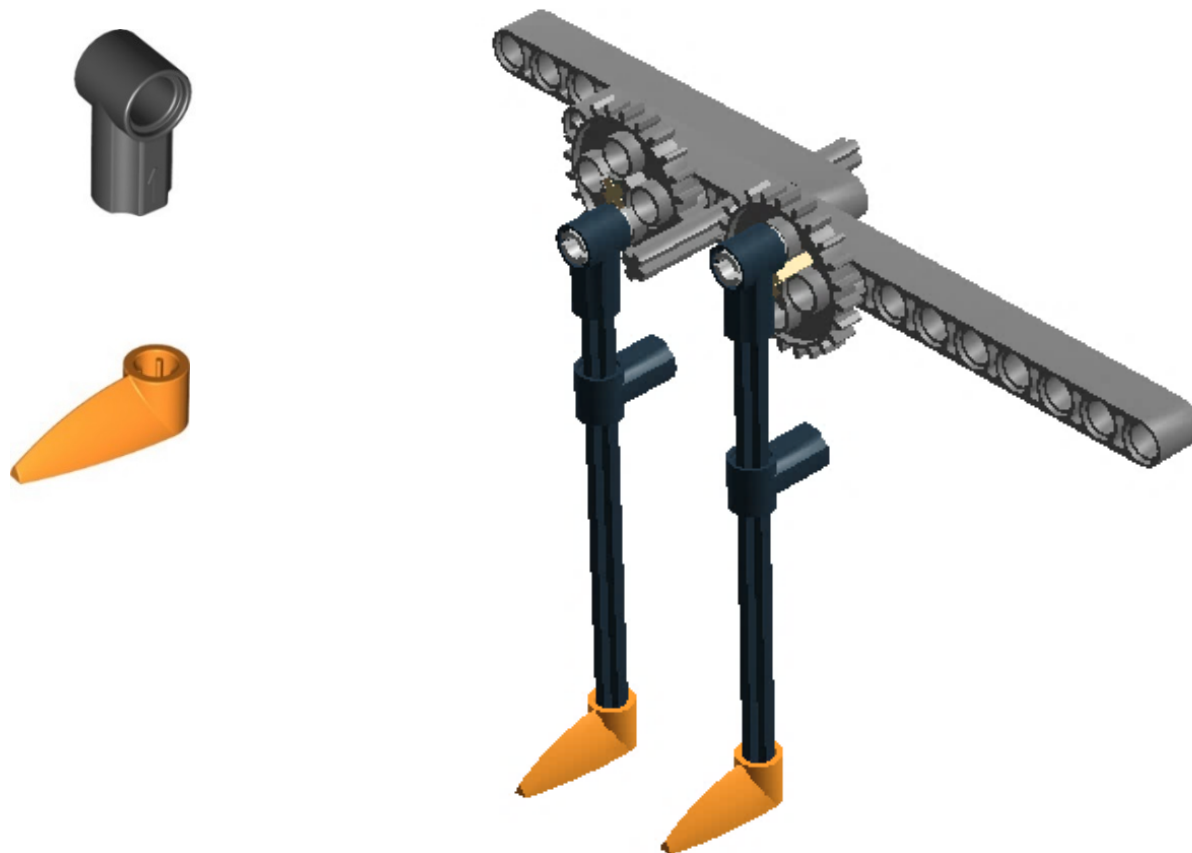
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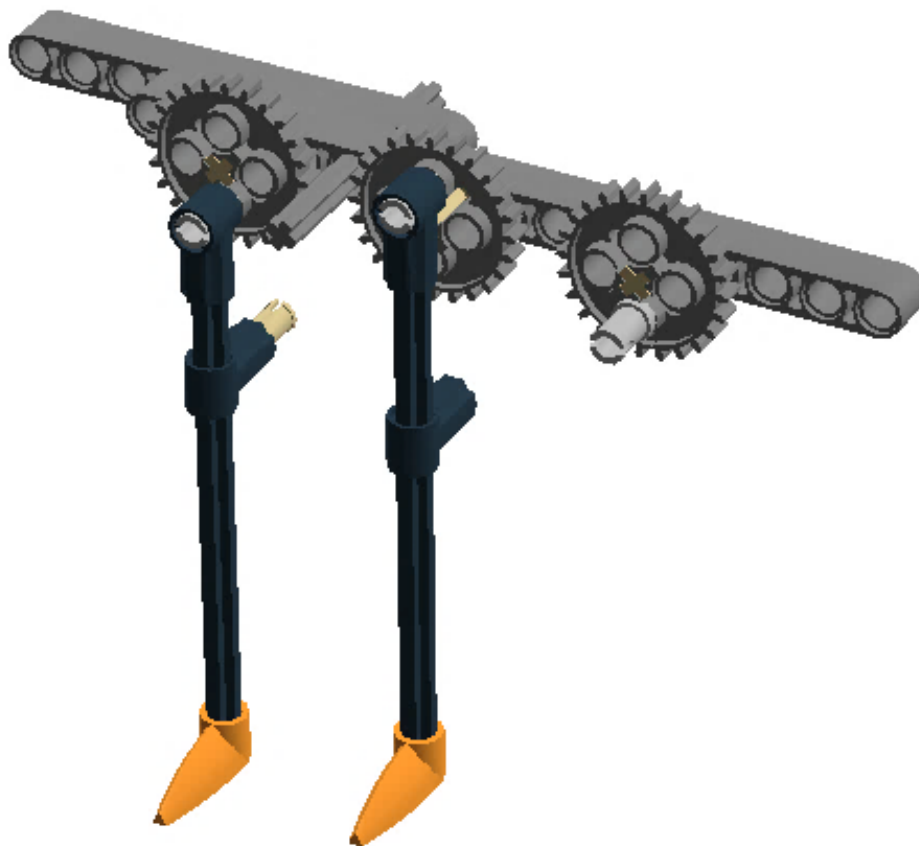
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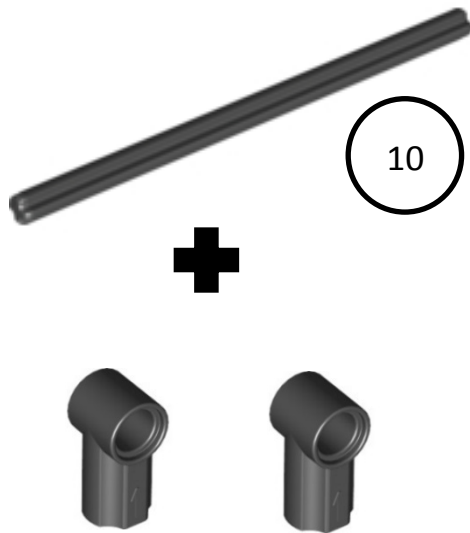
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13

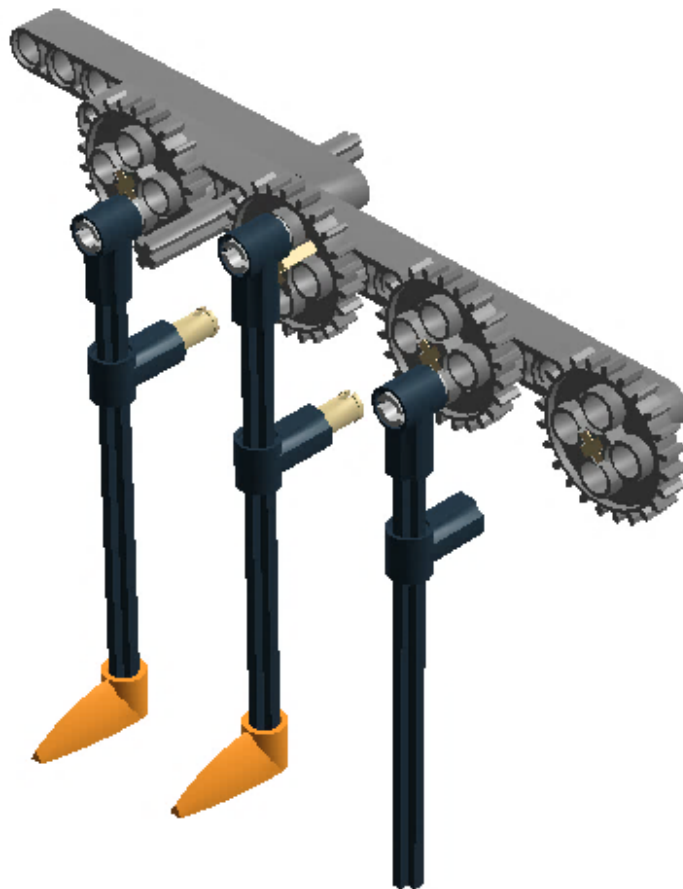
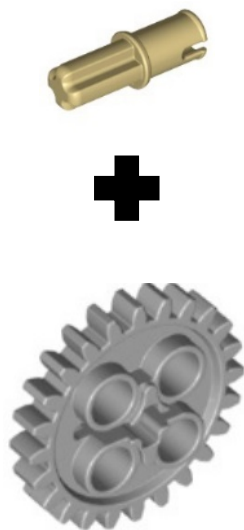


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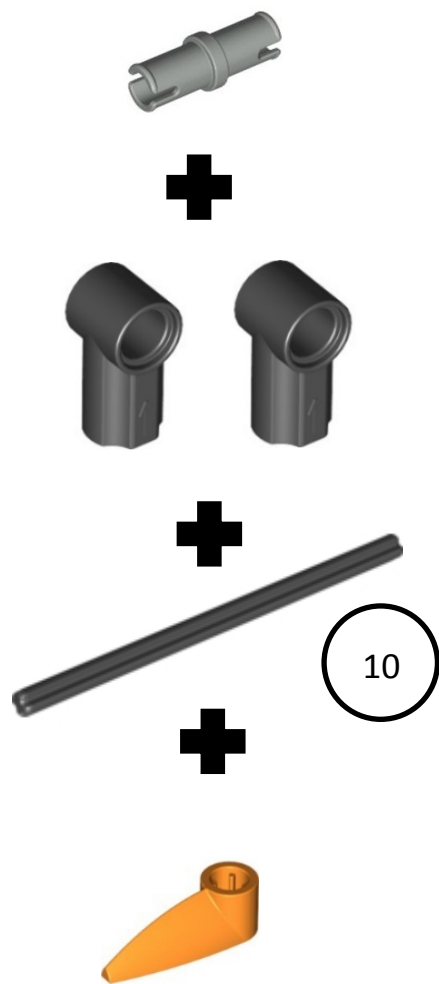




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16



17



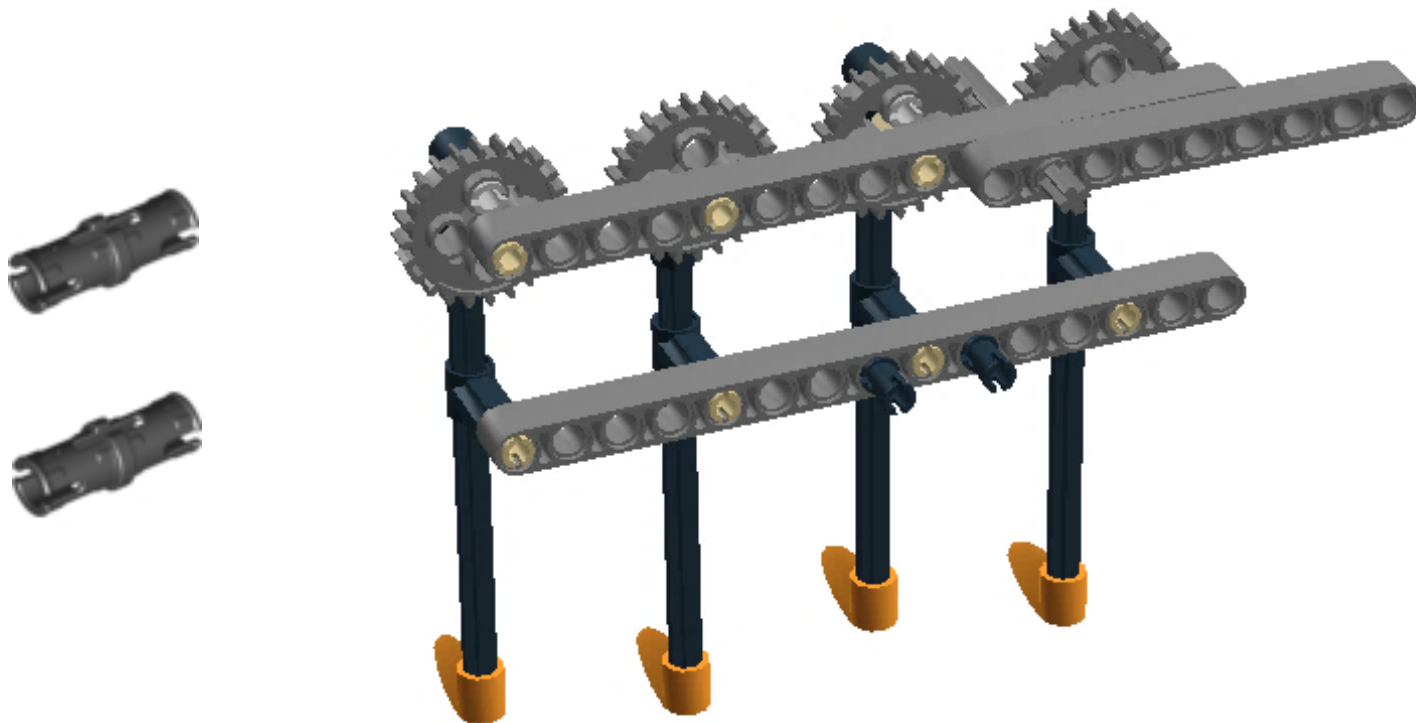
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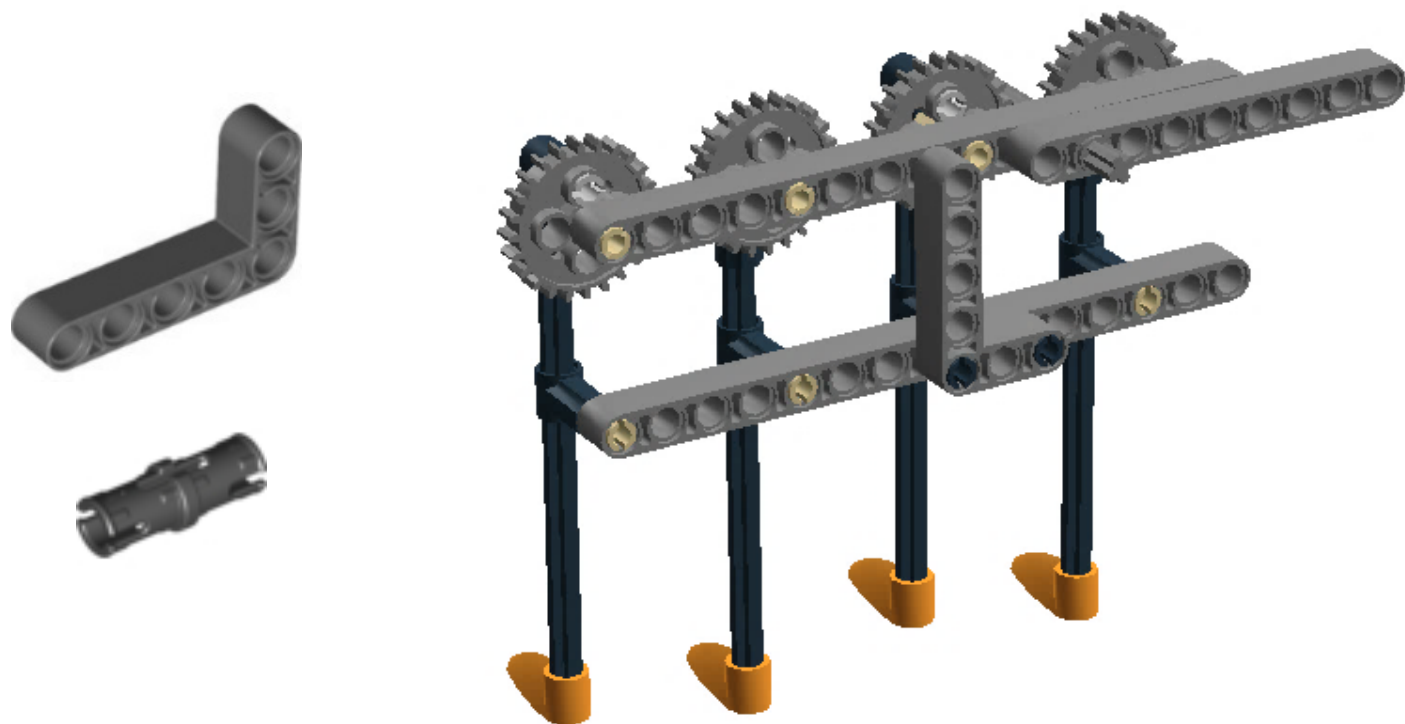
1  
5



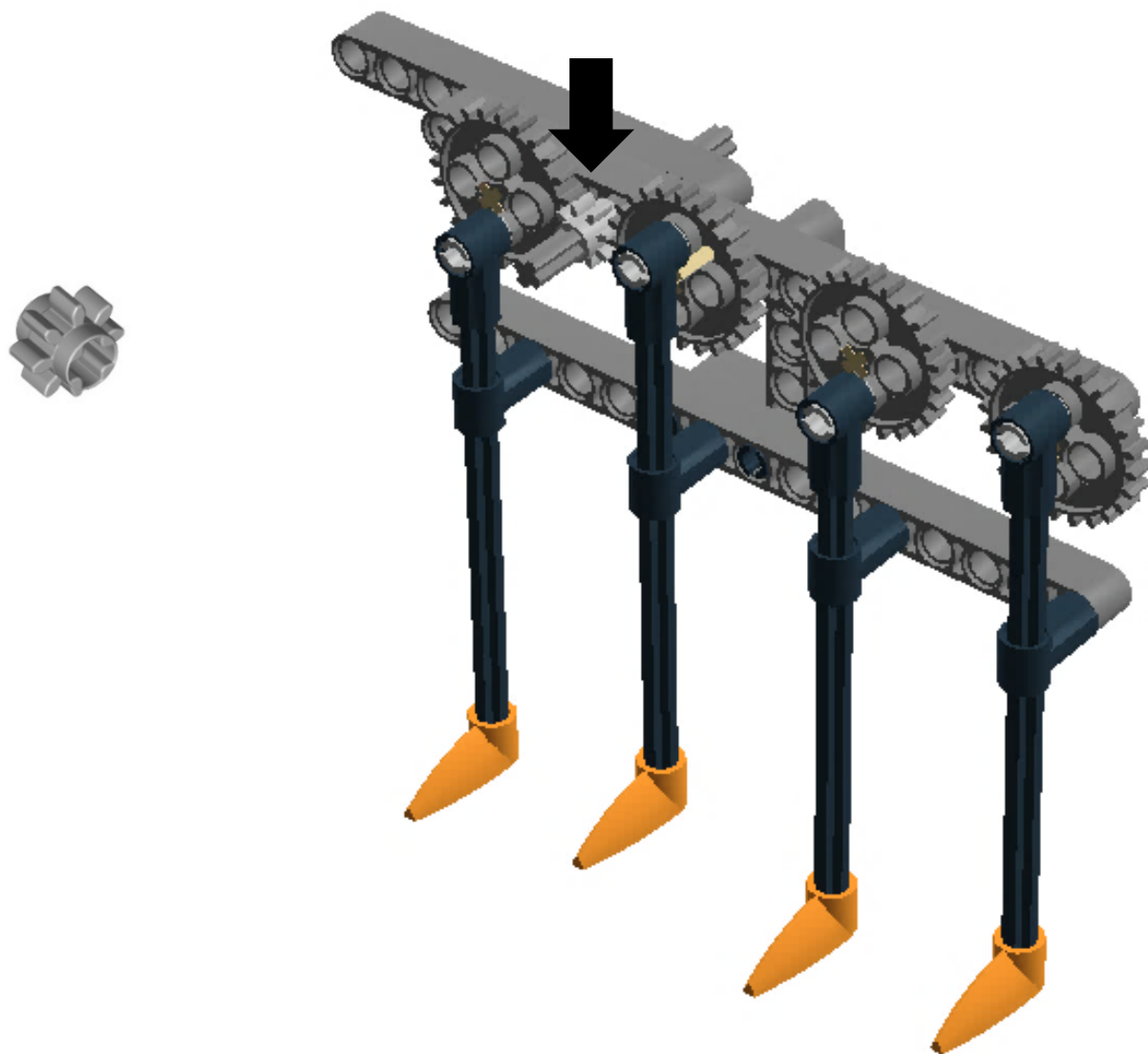
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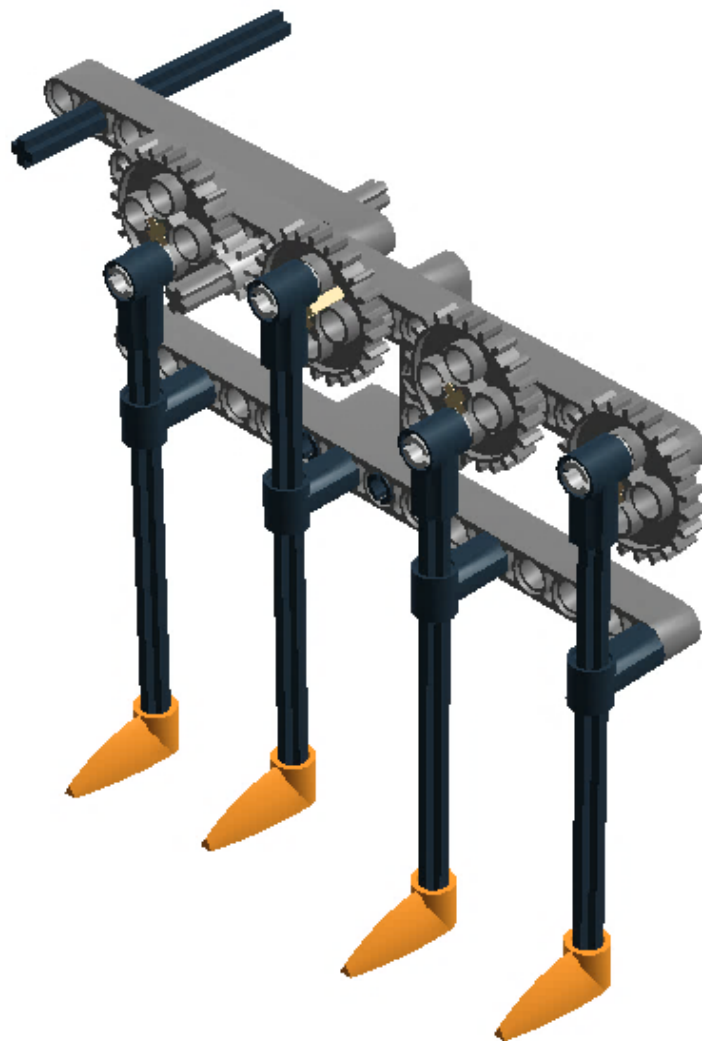
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22

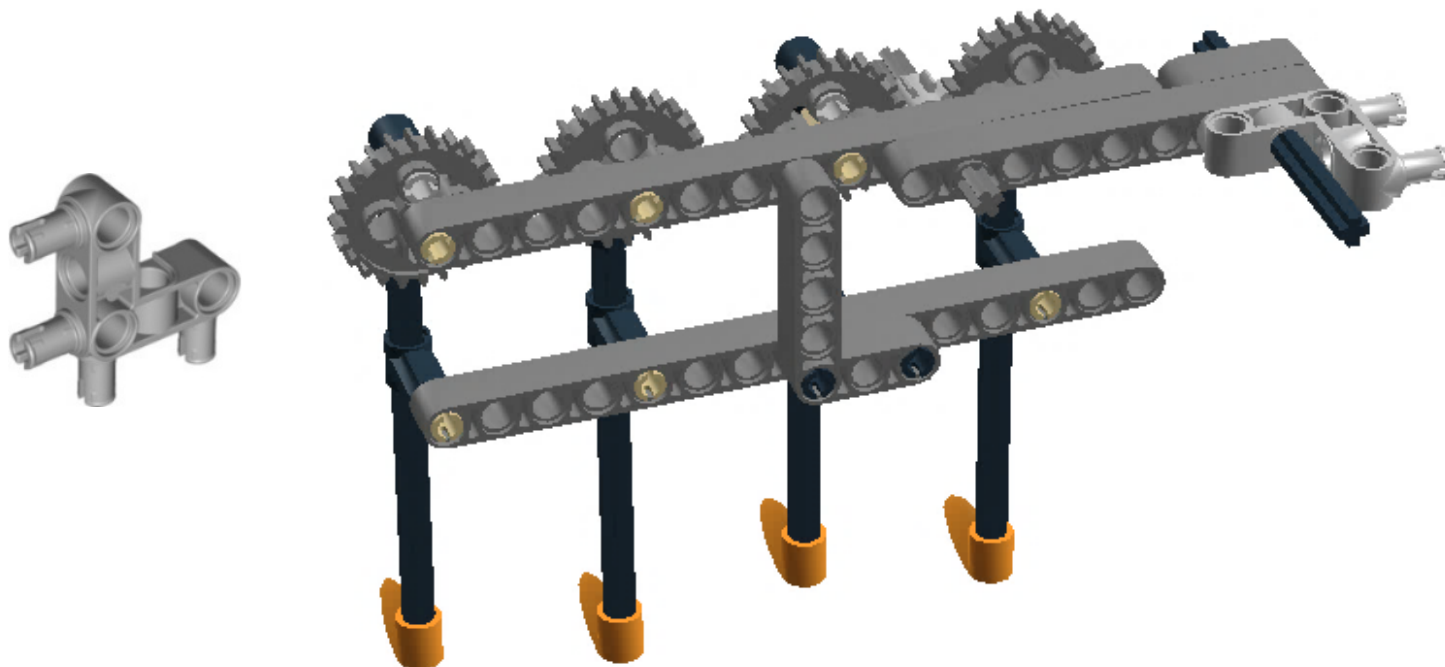


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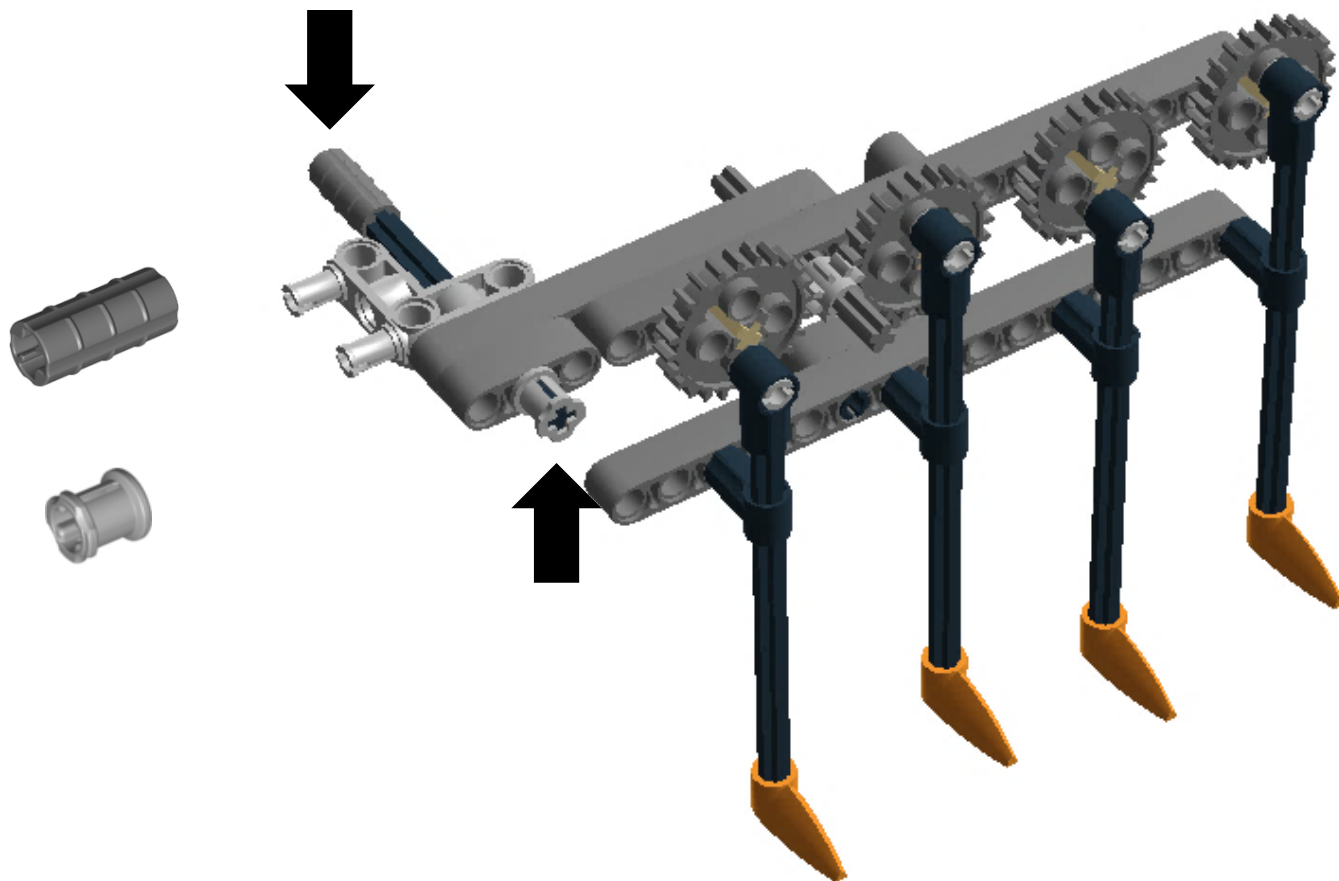




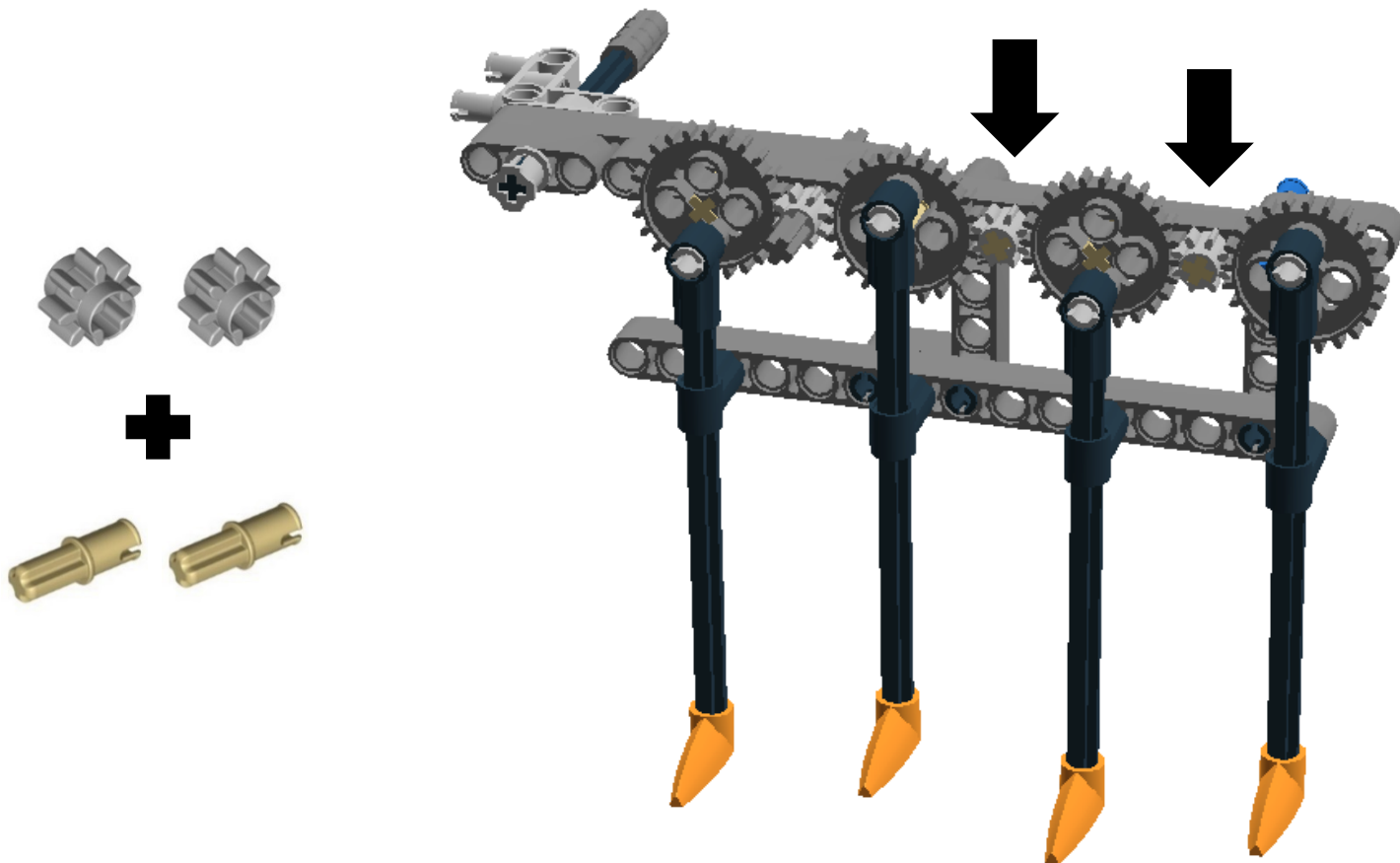
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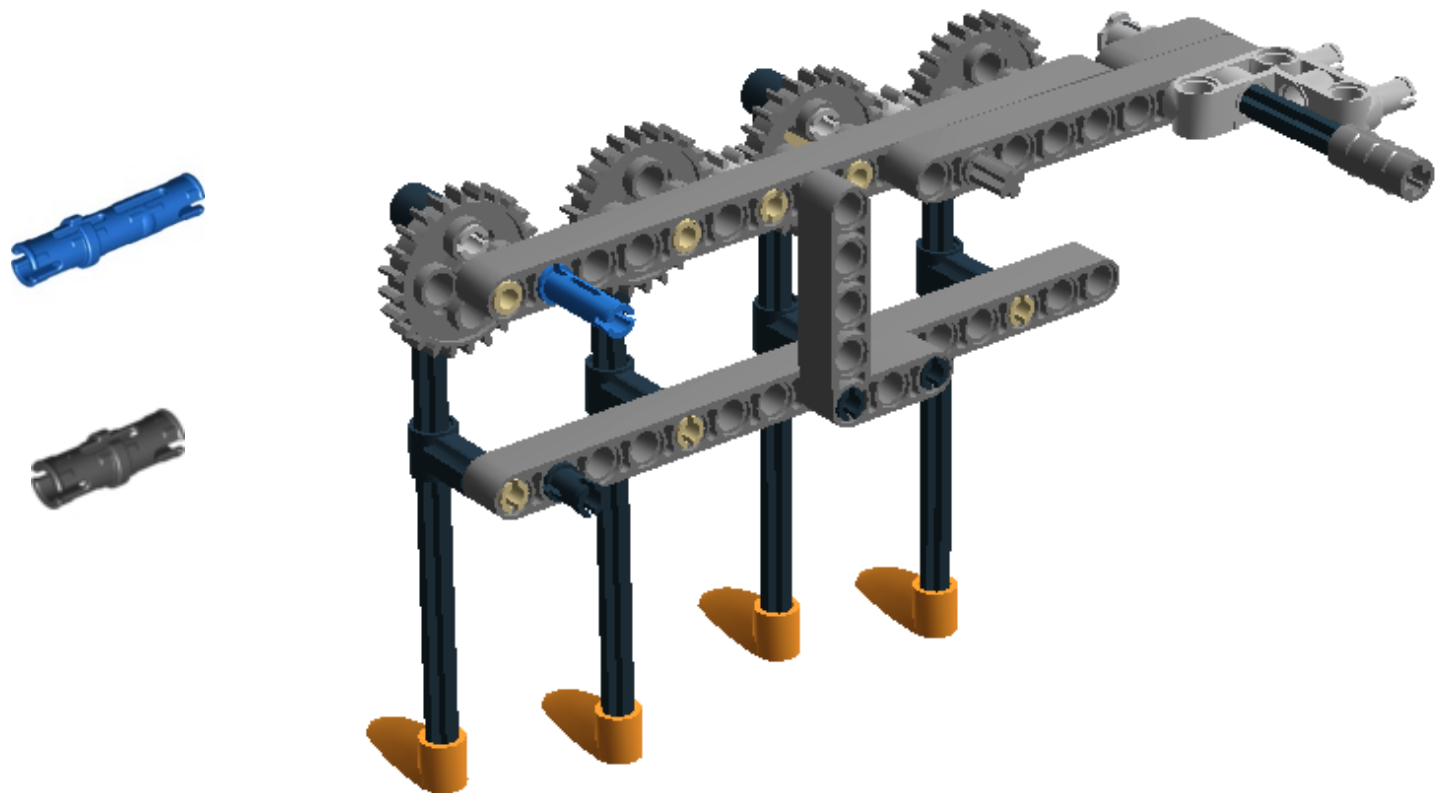
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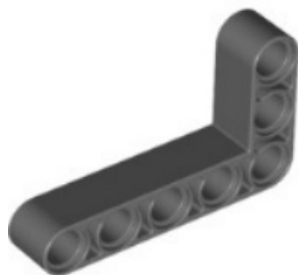
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26

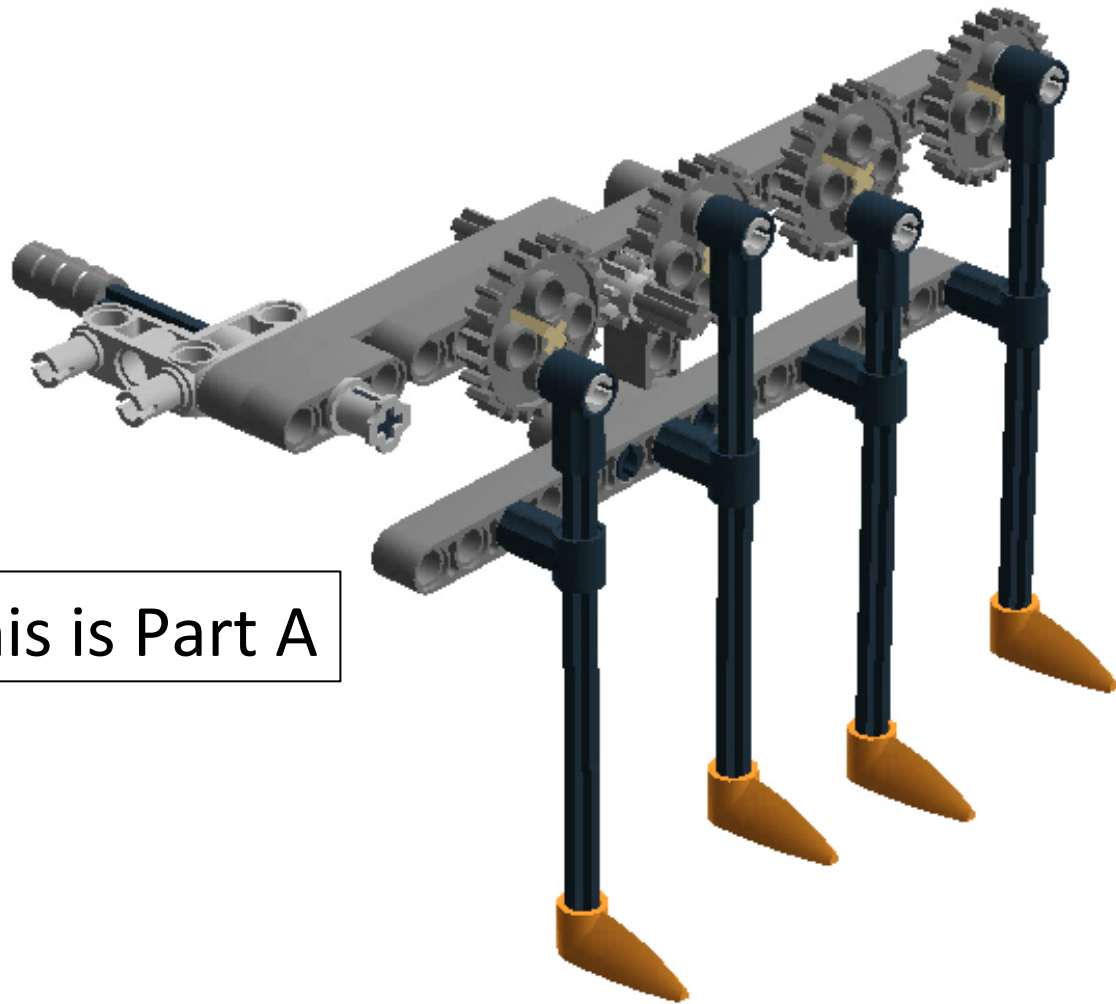


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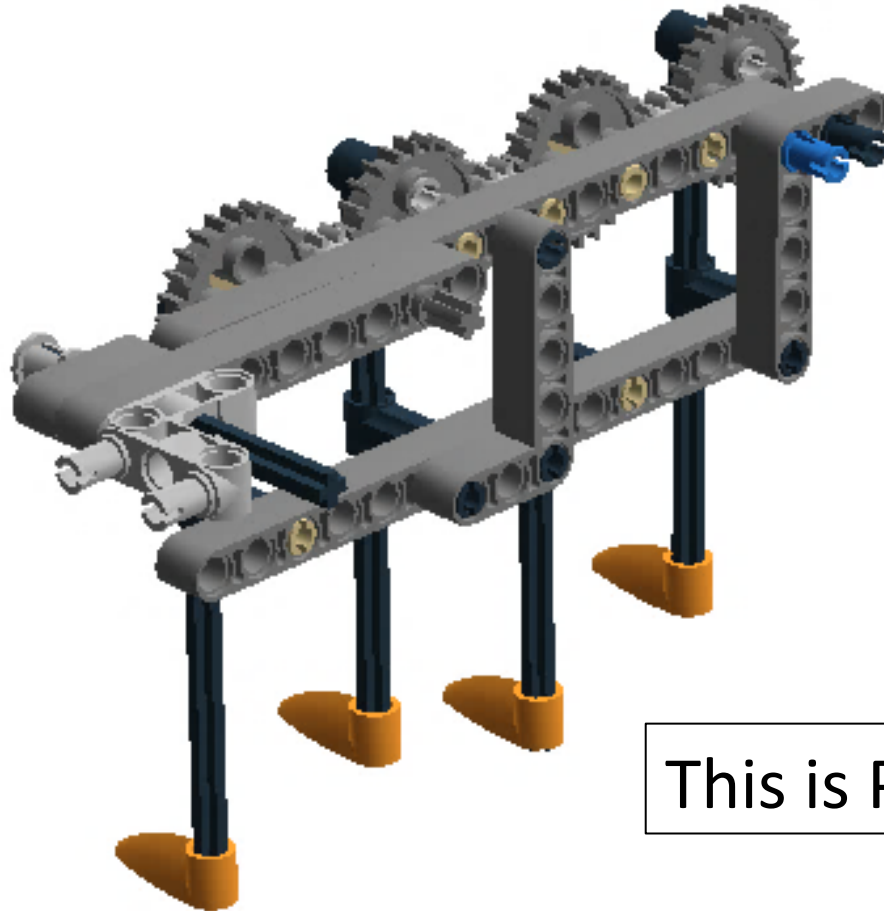
28

This is Part A



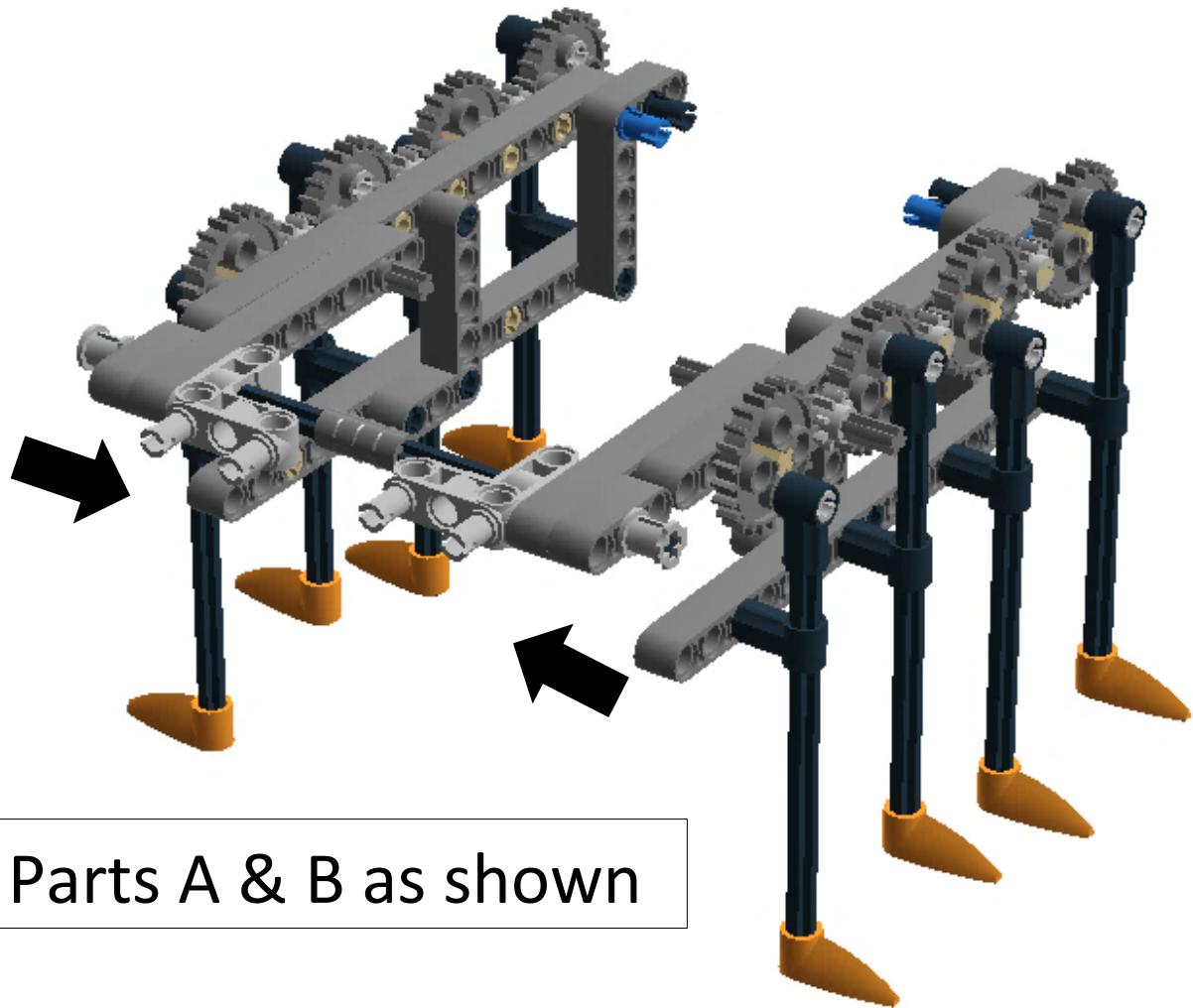
29

Repeat Steps 1 – 36 and make a mirror image model of Part A



This is Part B

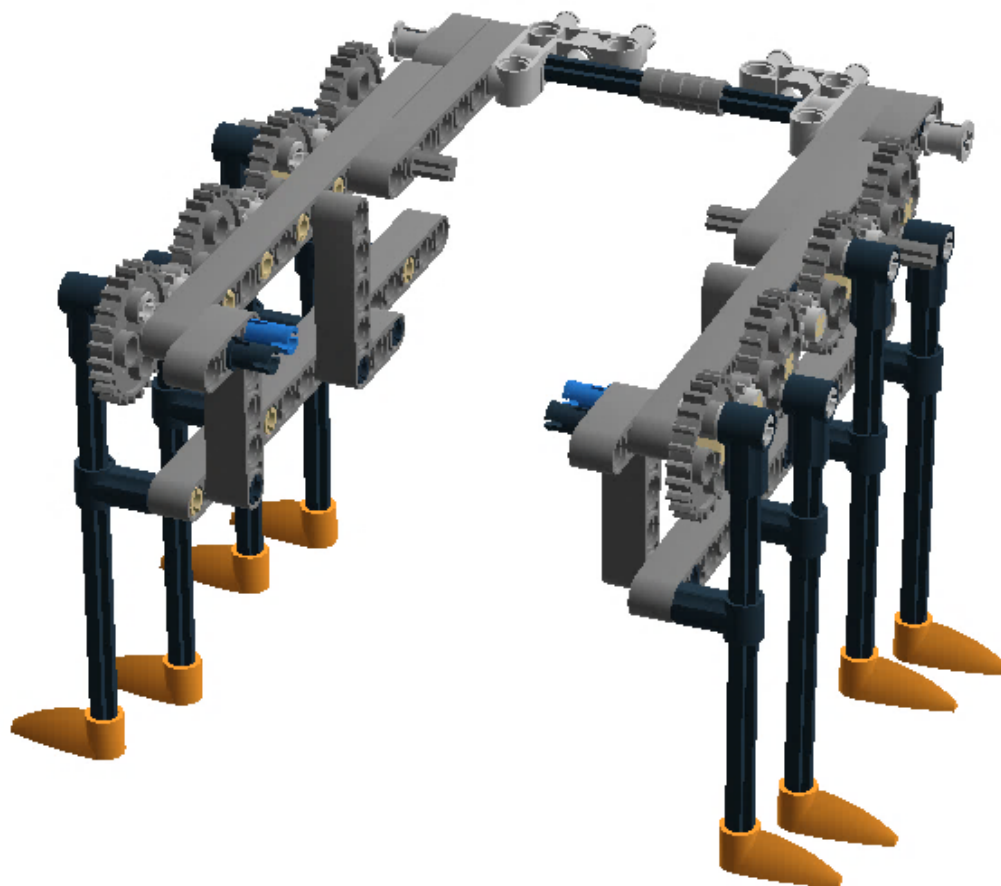
30



Join Parts A & B as shown



31

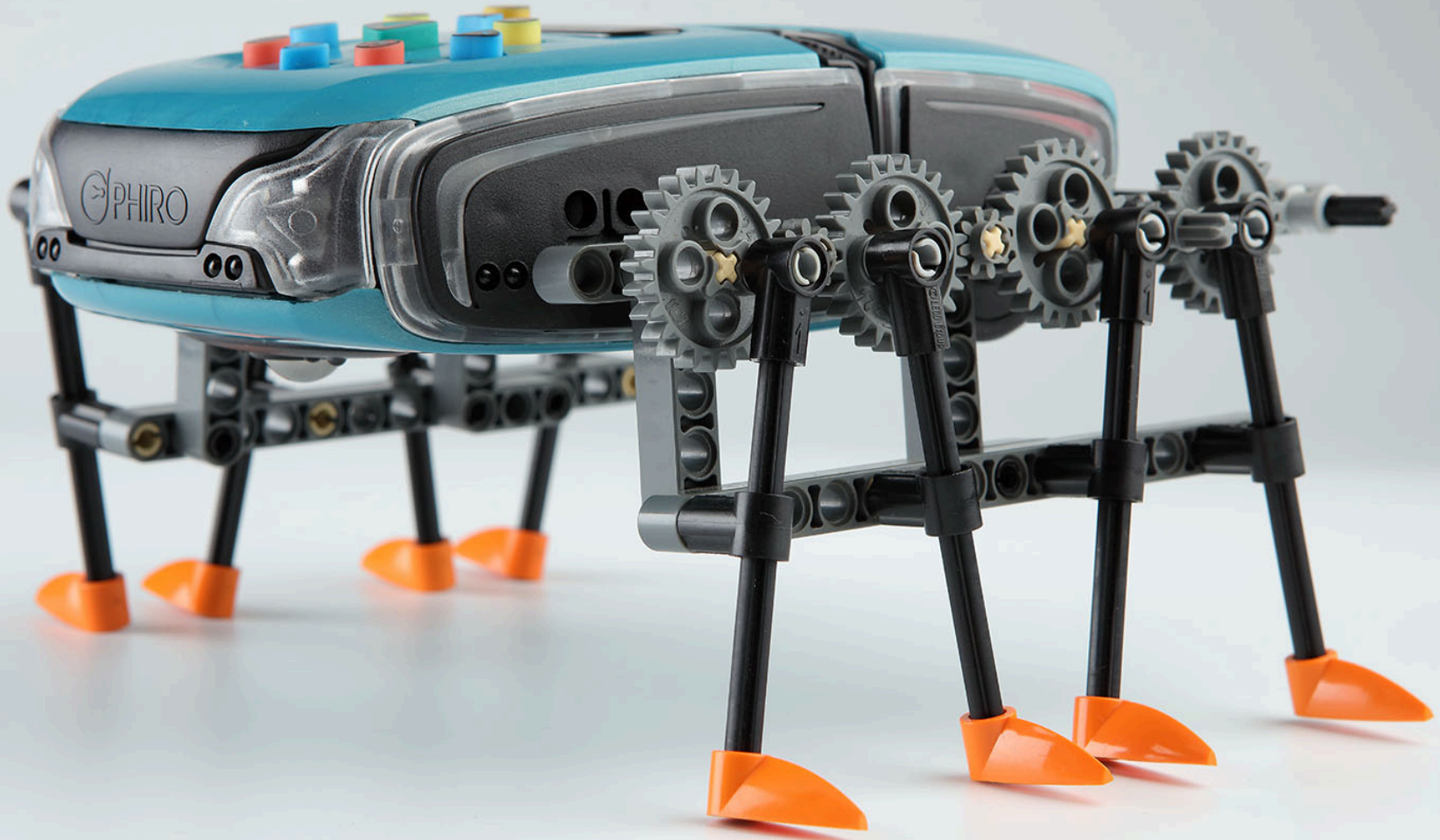


32



Connect PHIRO to the Octopod model as shown in the image above.

# The completed PHIRO - Octopod model



## STEP 1

# Making the Octopod move

- Having constructed the Octopod, the next step is to see the robot in action.
- Here you will observe how the gears work together along with the “legs” of the Octopod robot to give it an “Insect-like” motion.

# Programming the Octopod with Keys

- Switch PHIRO on and it automatically goes into “Sequential Mode”.
- First press the “Forward” button 3 times.
- Press the “Play” button. Observe what happens.
- Next press the “Forward” button another 3 times. Press “Play” and observe what happens.
- Do you think the Octopod model will move in the opposite direction? Try it out.



# Programming the Octopod with Swish Cards

Sample  
Program 1



Sample  
Program 2



Sample  
Program 3

