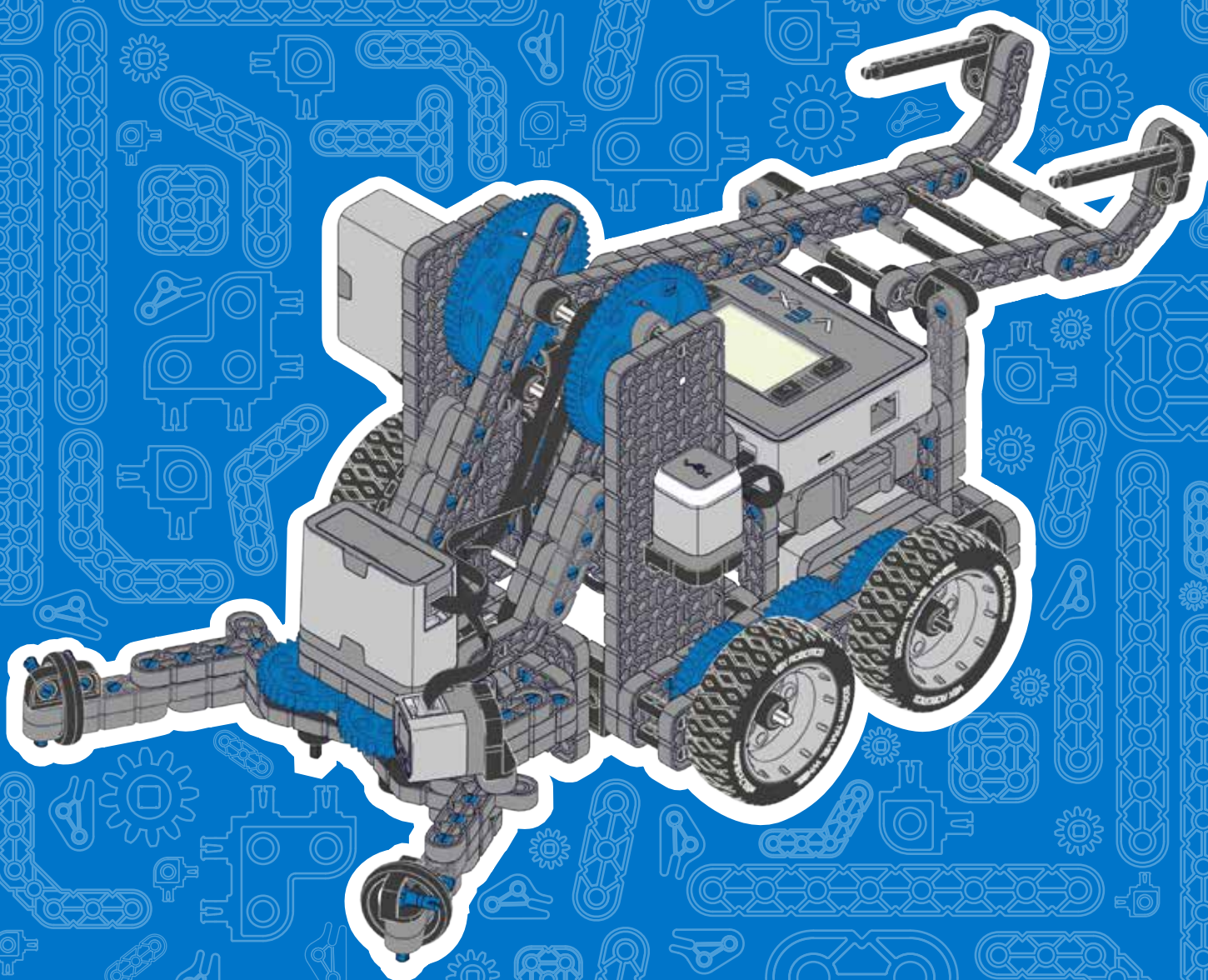


# VEX IQ

## 搭建说明书



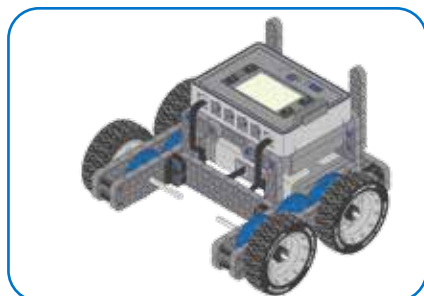
内含4款不同机器  
人的组装方式



# 目录

|   |                 |   |
|---|-----------------|---|
| i | VEX IQ搭建技巧..... | 2 |
|---|-----------------|---|

|   |           |   |
|---|-----------|---|
| 1 | 标准底盘..... | 4 |
|---|-----------|---|



搭建步骤 1-19

|  |              |    |
|--|--------------|----|
|  | IQ钳爪机器人..... | 10 |
|--|--------------|----|

2



搭建步骤 20-87

|  |                   |    |
|--|-------------------|----|
|  | 带传感器的IQ钳爪机器人..... | 28 |
|--|-------------------|----|

3

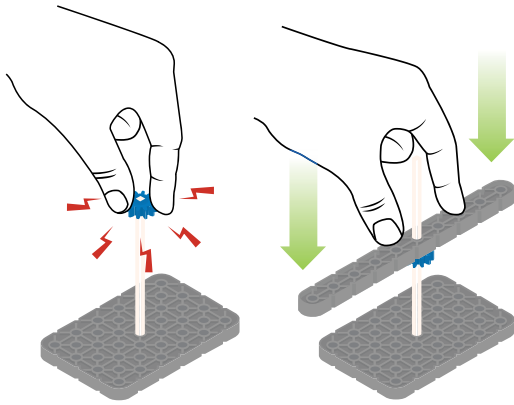


搭建步骤 88-101

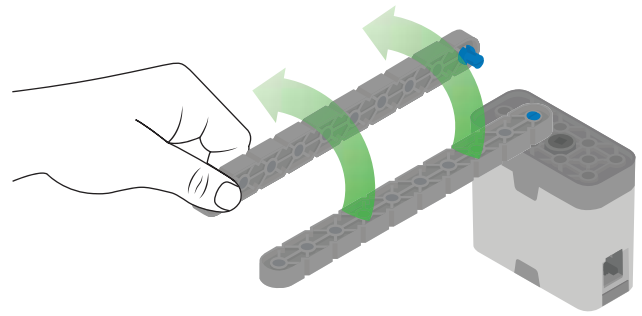
|   |            |    |
|---|------------|----|
| 4 | 自驾机器人..... | 32 |
|---|------------|----|



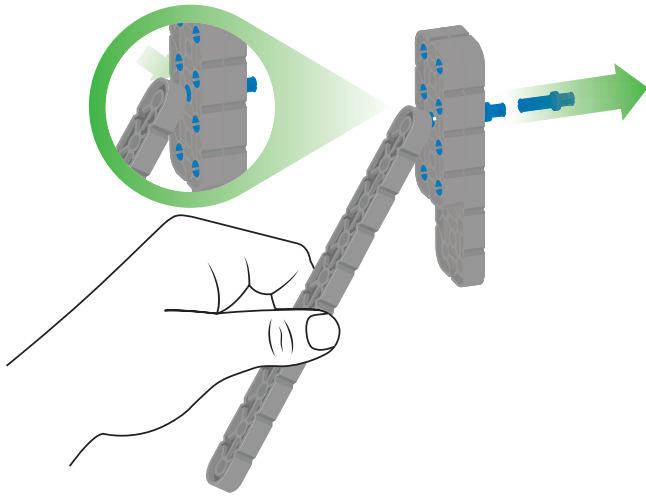
搭建步骤 102-117



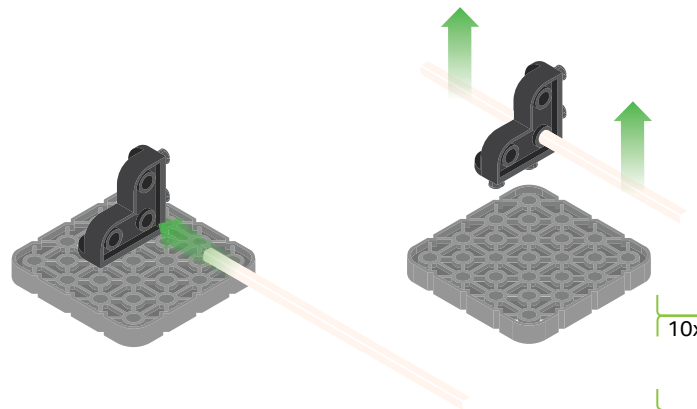
可以借助1xN 直梁将 VEX IQ 小配件固定在轴上。



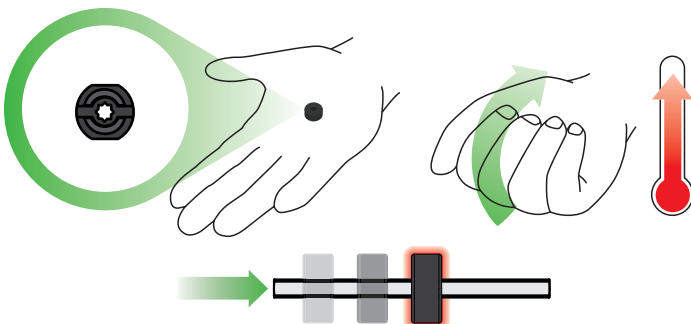
可使用1xN直梁轻松拔出智能马达, 传感器或机器人主控器上的销钉。把直梁固定在销钉上往外扭拉即可取出销钉。



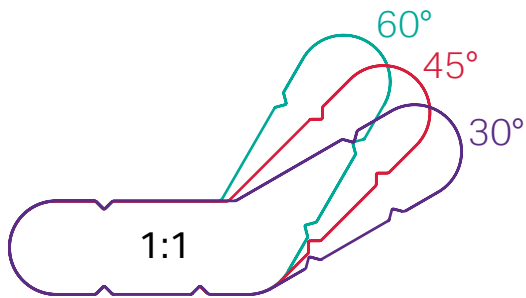
用直梁顶在销钉背面向前推即可快速取出销钉。



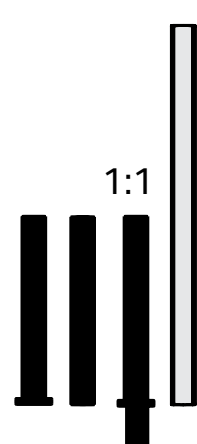
用一根金属轴穿过转角接头上的孔后往外拉即可快速将其从其他结构件上取出。



为便于安装, 可将橡胶轴箍握在手心15-30秒使其变得柔软。



测量弯梁角度的最佳方法是对比弯梁角度与已知角度(如图)测量轴长的方法是将其与直梁作比较, 通过数直梁上的洞数来确定轴长。



- 10x
- 9x
- 8x
- 7x
- 6x
- 5x
- 4x
- 3x
- 2x
- 1x



# 1 标准底盘安装步骤

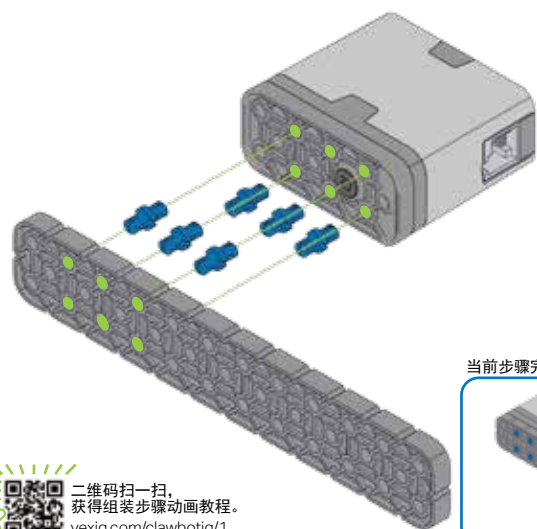
1

所需构件

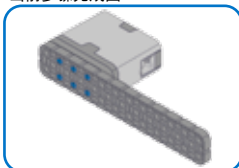
6x  
228-2500-060

1x  
228-2500-026

1x  
228-2560



当前步骤完成图



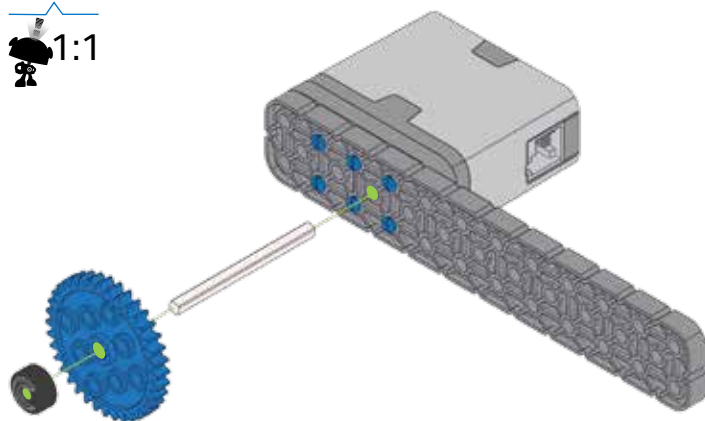
2

1x  
228-2500-214

1x  
228-2500-143

1x  
228-2500-120 (4xP)

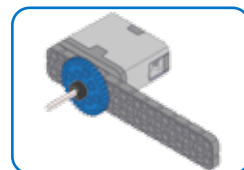
1:1



使用1xN 直梁确定轴的位置。



1x



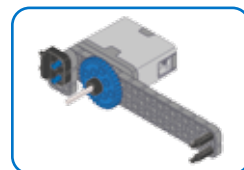
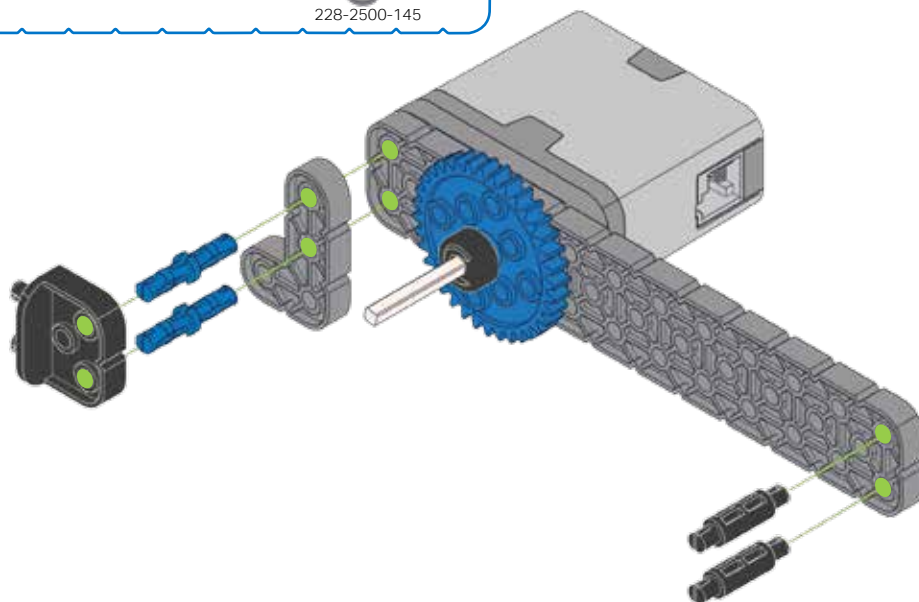
3

2x  
228-2500-062

2x  
228-2500-065

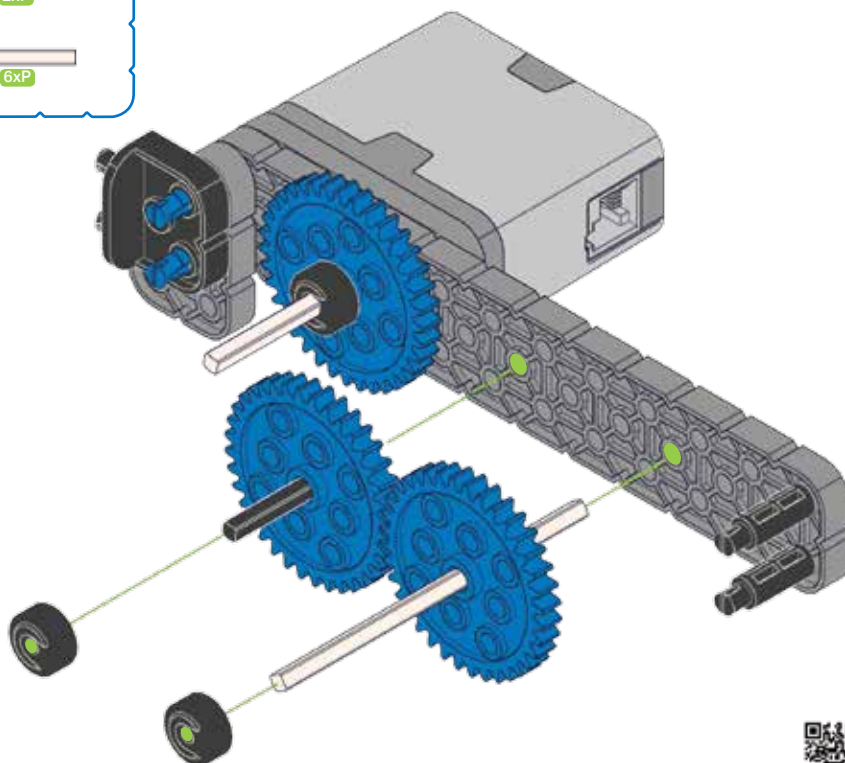
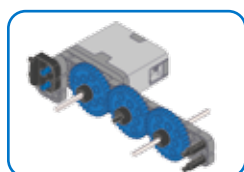
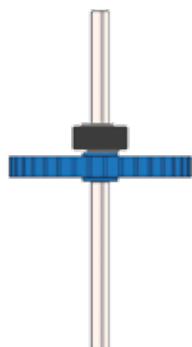
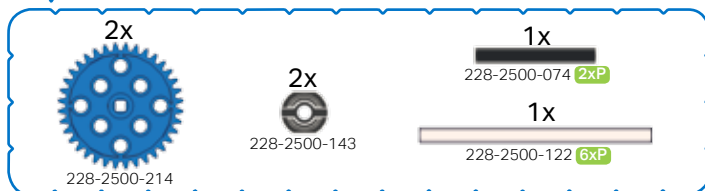
1x  
228-2500-135

1x  
228-2500-145

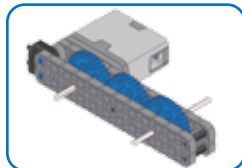
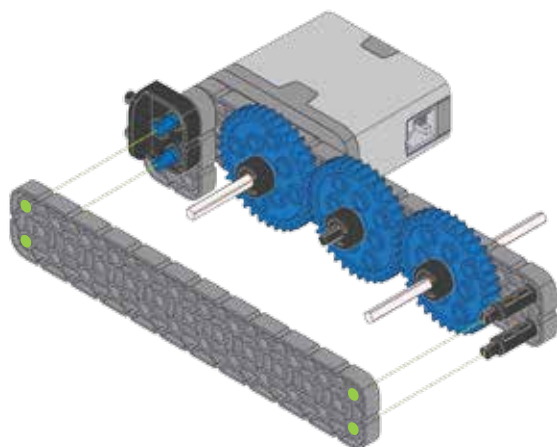
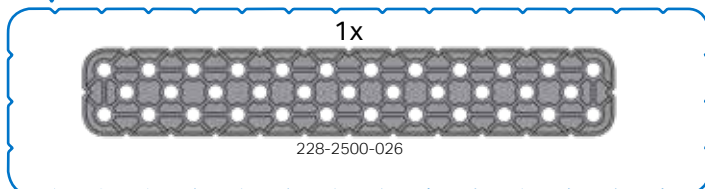




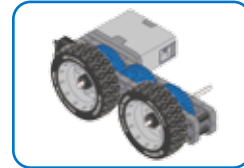
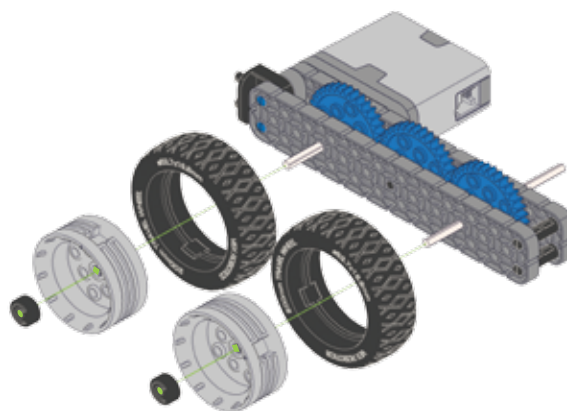
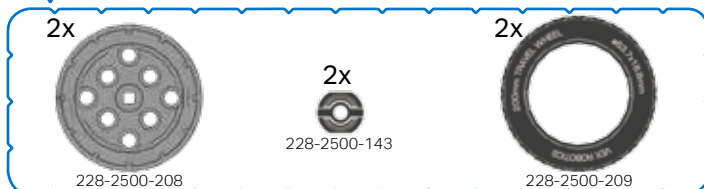
4


[vexiq.com/clawbotiq/4](http://vexiq.com/clawbotiq/4)


5


[vexiq.com/clawbotiq/5](http://vexiq.com/clawbotiq/5)

6


[vexiq.com/clawbotiq/6](http://vexiq.com/clawbotiq/6)

7

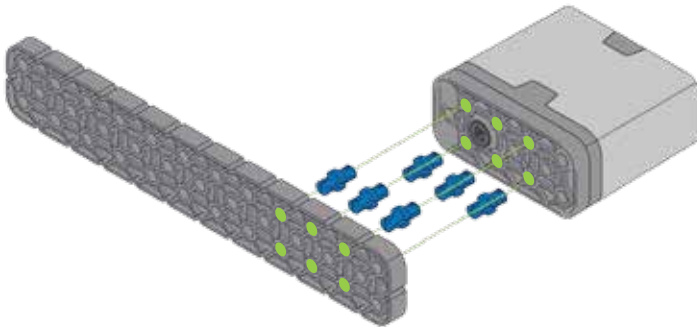
6x  
228-2500-060

1x

228-2500-026

1x

228-2560



vexiq.com/clawbotiq/7

8

1x



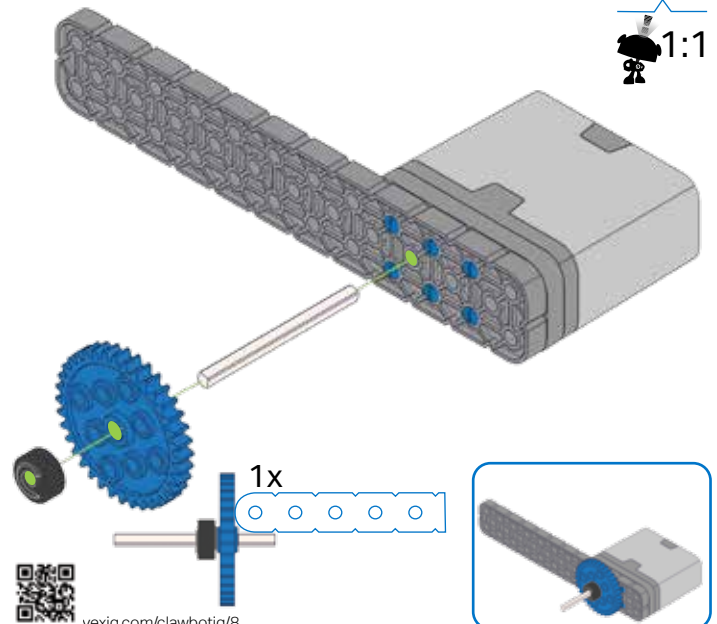
228-2500-214

1x

228-2500-143

1x

228-2500-120 4xP



vexiq.com/clawbotiq/8

9

2x

228-2500-062

2x

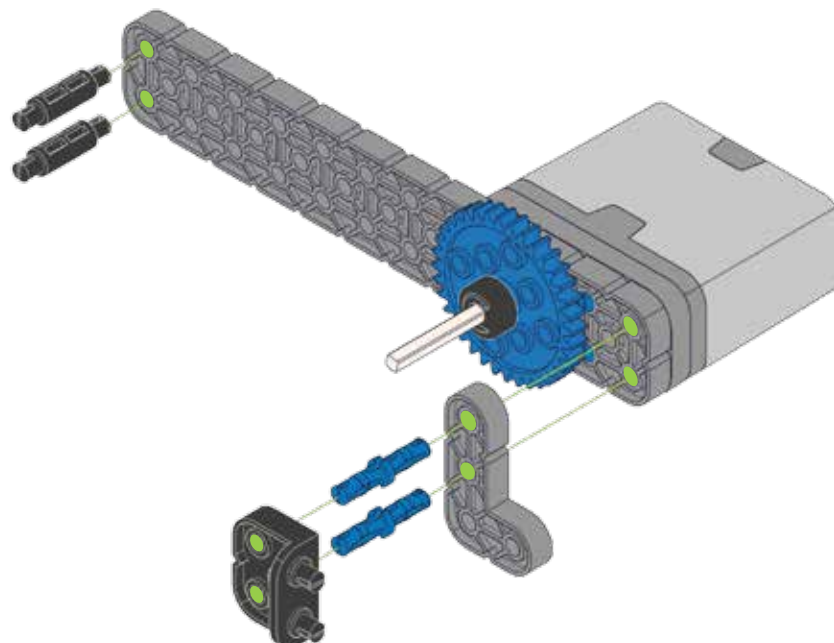
228-2500-065

1x

228-2500-135

1x

228-2500-145



vexiq.com/clawbotiq/9

10

2x



228-2500-214

2x



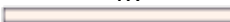
228-2500-143

1x

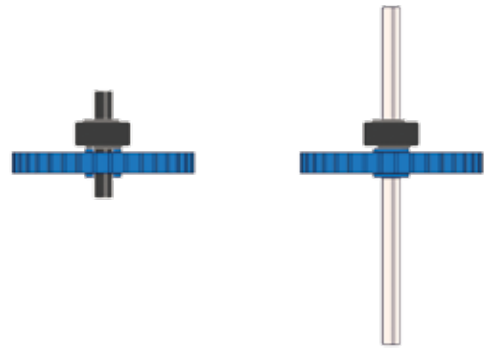


228-2500-074 2xP

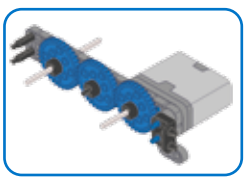
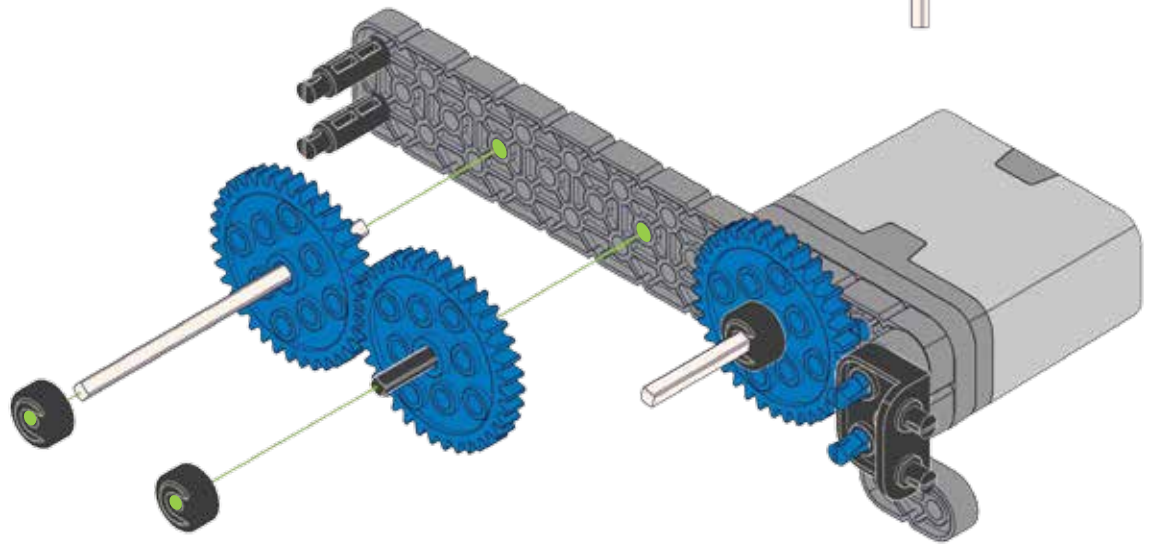
1x



228-2500-122 6xP

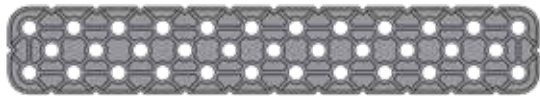


1:1

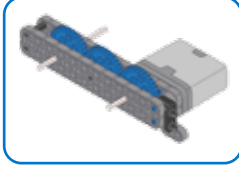
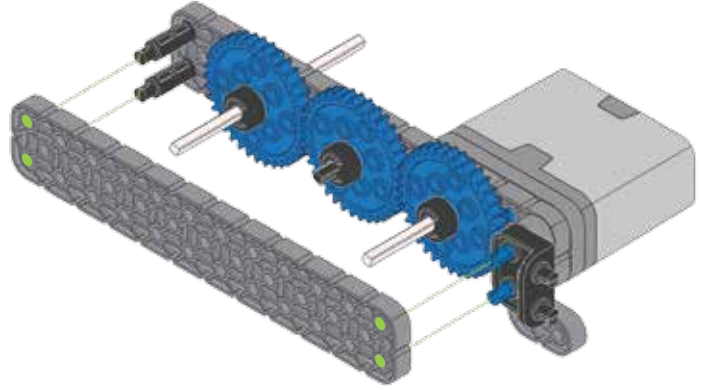


11

1x

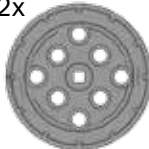


228-2500-026



12

2x



228-2500-208

2x

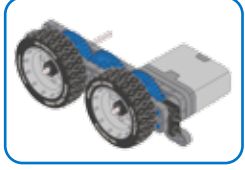


228-250-143

2x

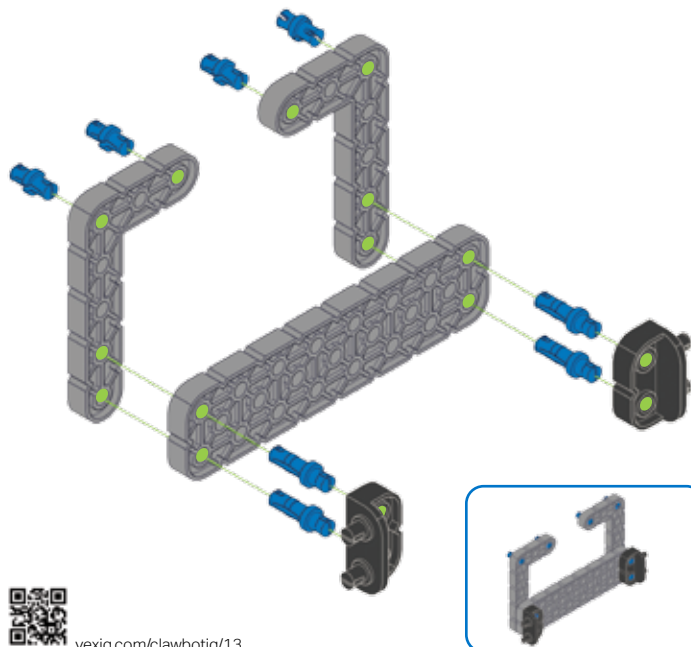
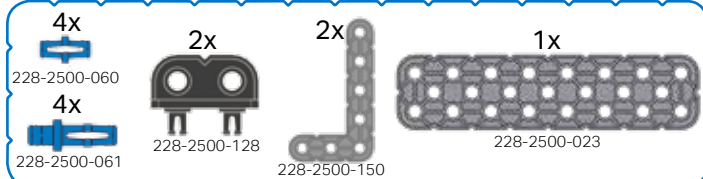


228-2500-209

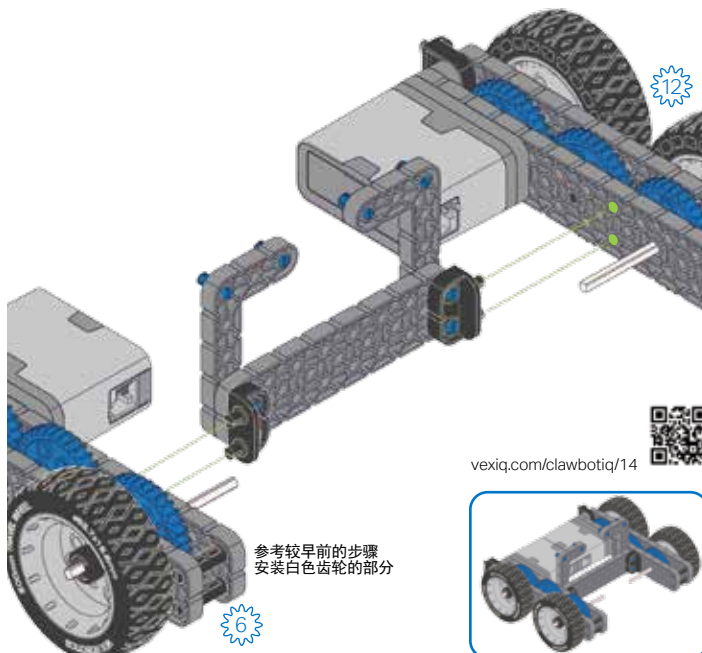




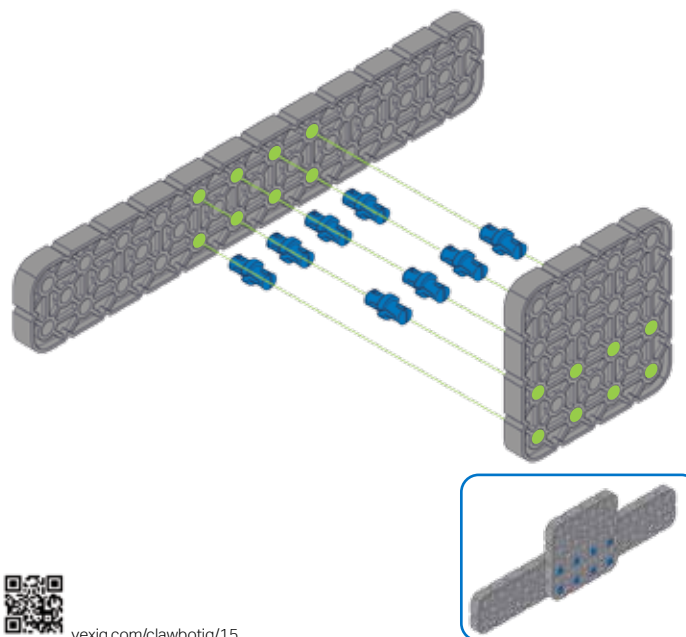
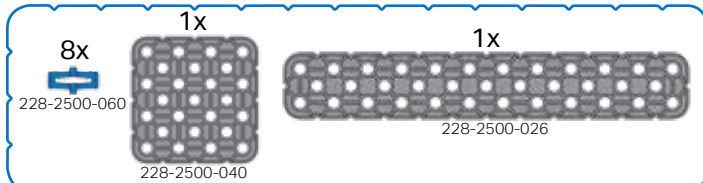
13



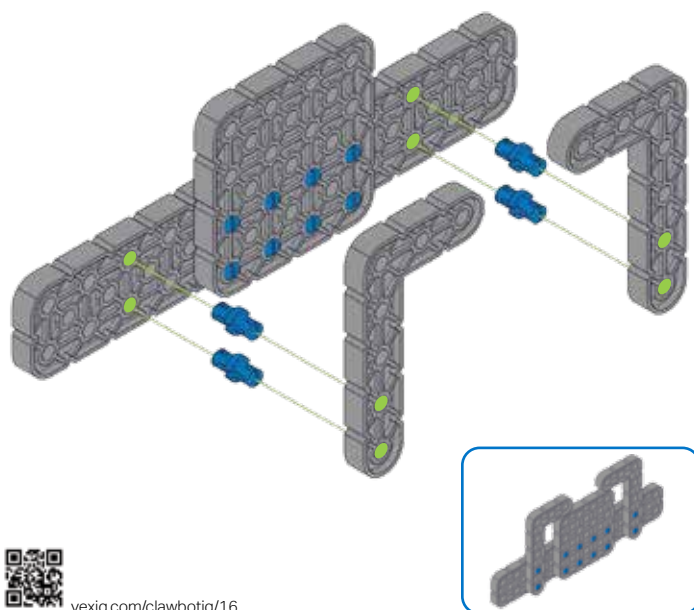
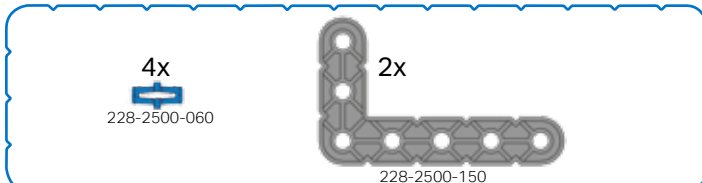
14



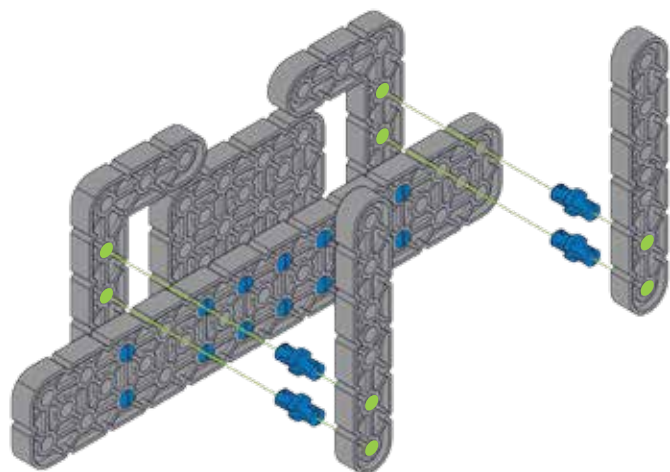
15



16



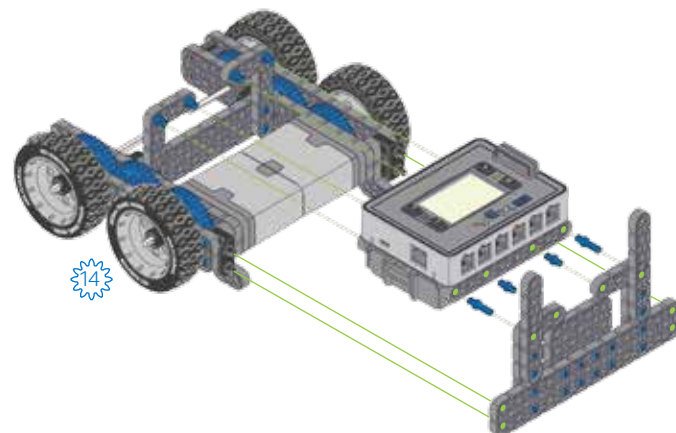
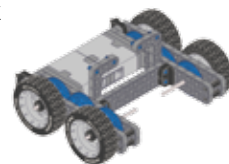
17

4x  
228-2500-0602x  
228-2500-005

vexiq.com/clawbotiq/17

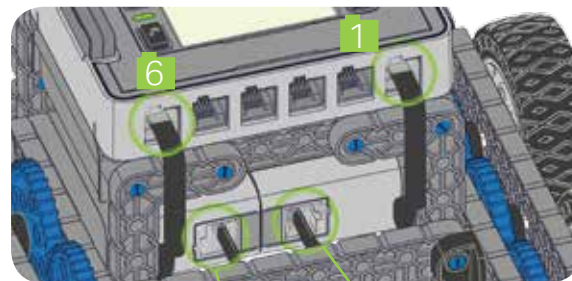
18

2x 228-2500-060 2x 228-2500-061

1x  
228-2540

vexiq.com/clawbotiq/18

19

2x  
228-2780-001 (200mm)

20

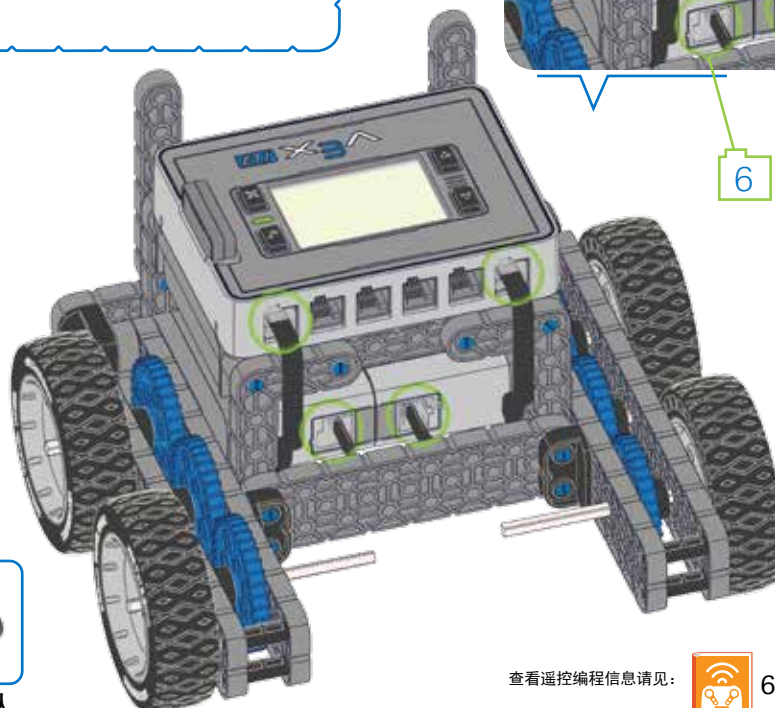


IQ钳爪机器人

102



自驾机器人



6

1

按照图示将智能配件与机器人主控制器上对应的端口连接

vexiq.com/clawbotiq/19



查看遥控编程信息请见:

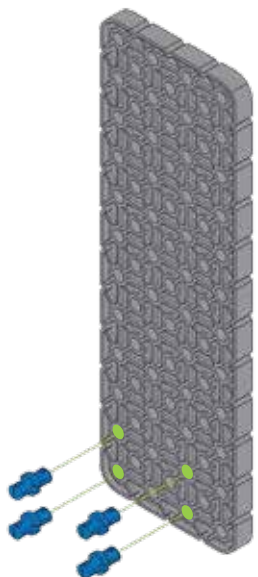
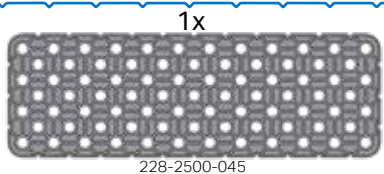


6.1

## 2 钳爪机器人

20

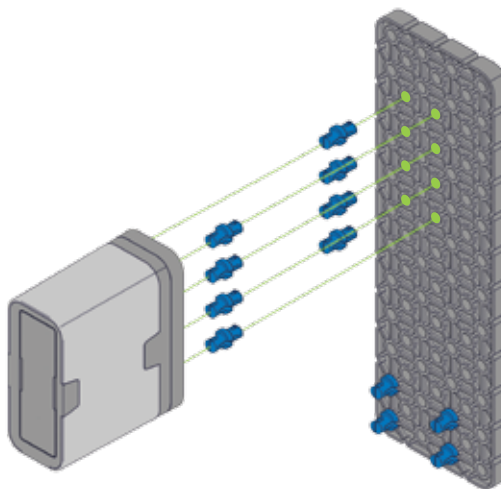
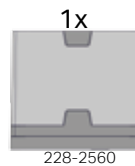
4x  
228-2500-060



vexiq.com/clawbotiq/20

21

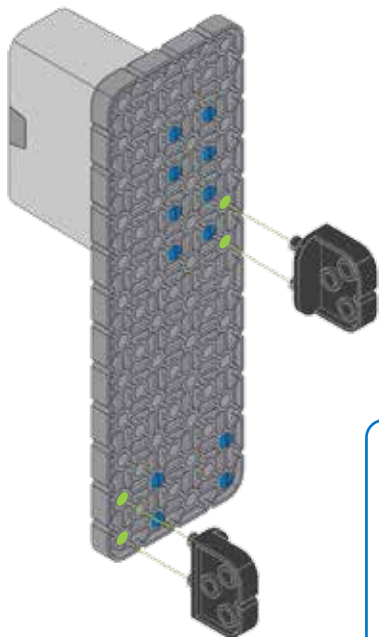
8x  
228-2500-060



vexiq.com/clawbotiq/21

22

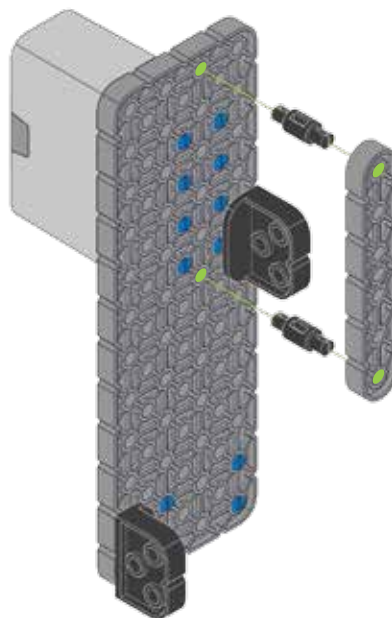
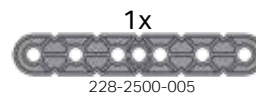
2x  
228-2500-135



vexiq.com/clawbotiq/22

23

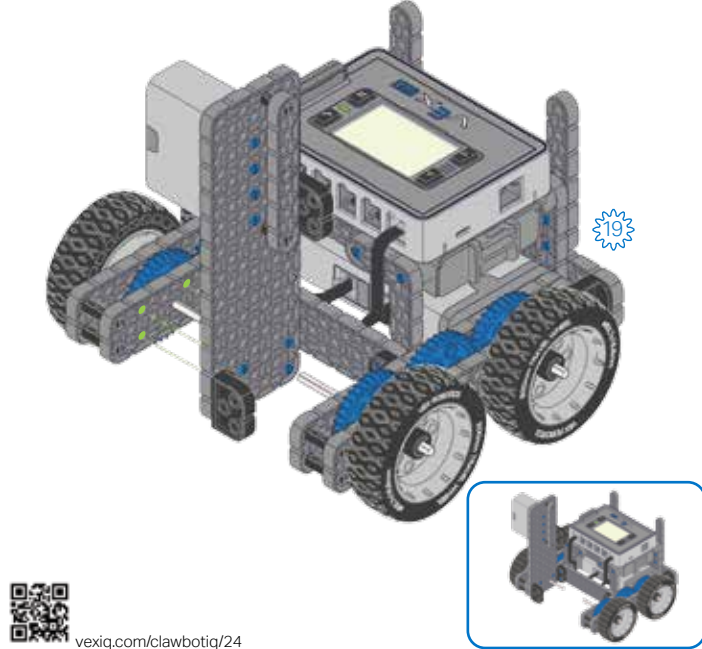
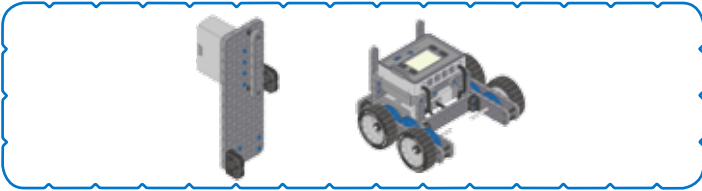
2x  
228-2500-064



vexiq.com/clawbotiq/23

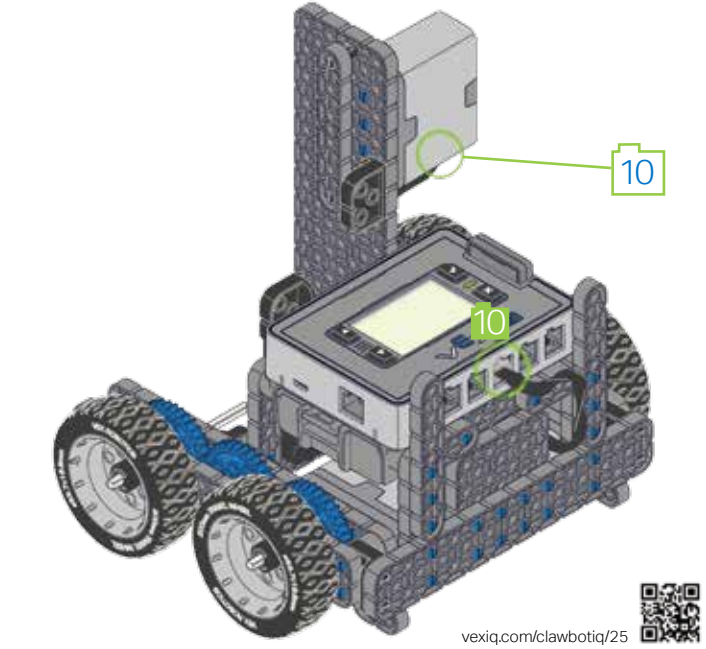
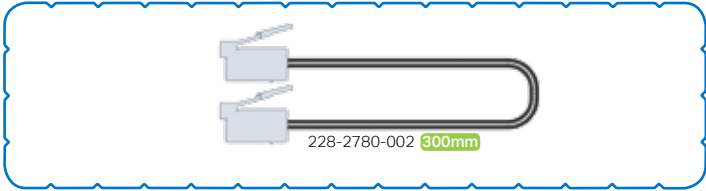


24



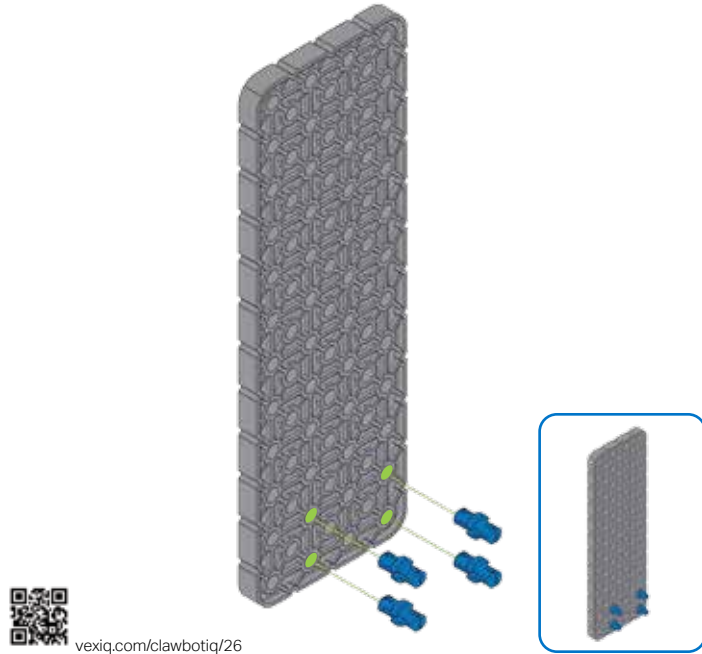
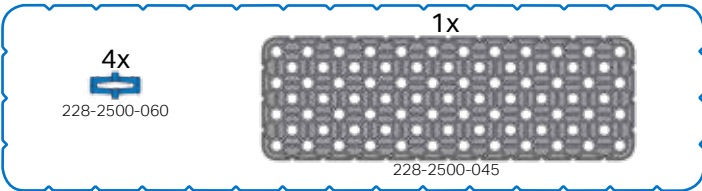
vexiq.com/clawbotiq/24

25



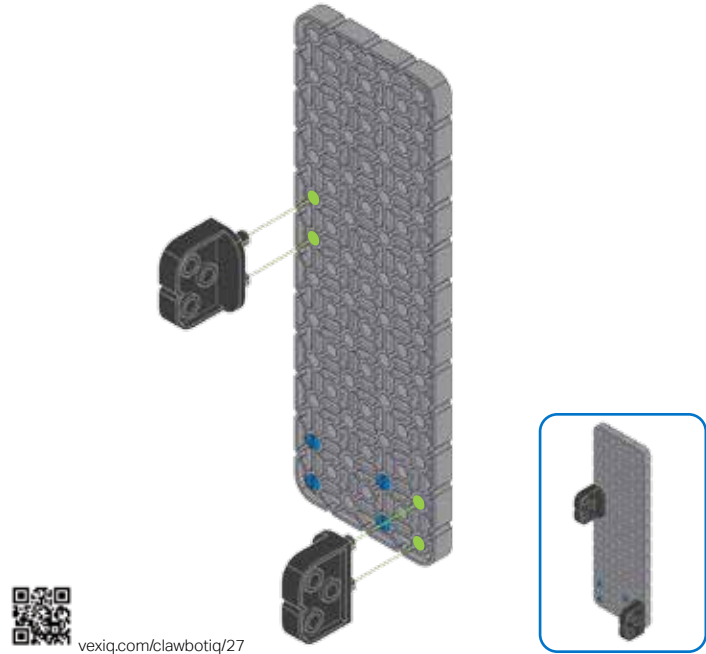
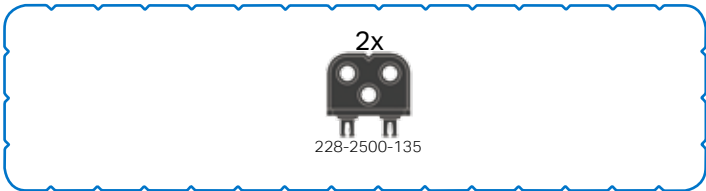
vexiq.com/clawbotiq/25

26



vexiq.com/clawbotiq/26

27

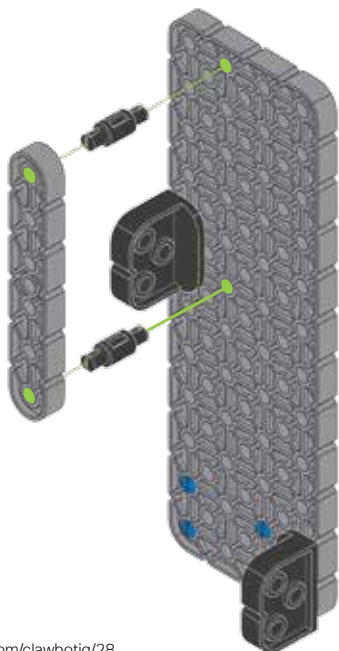


vexiq.com/clawbotiq/27

28

2x  
228-2500-064

1x  
228-2500-005



vexiq.com/clawbotiq/28

29

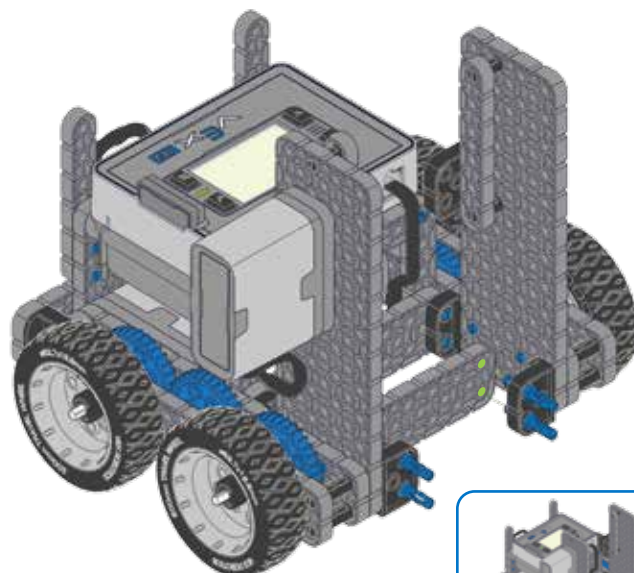


vexiq.com/clawbotiq/29

31

1x

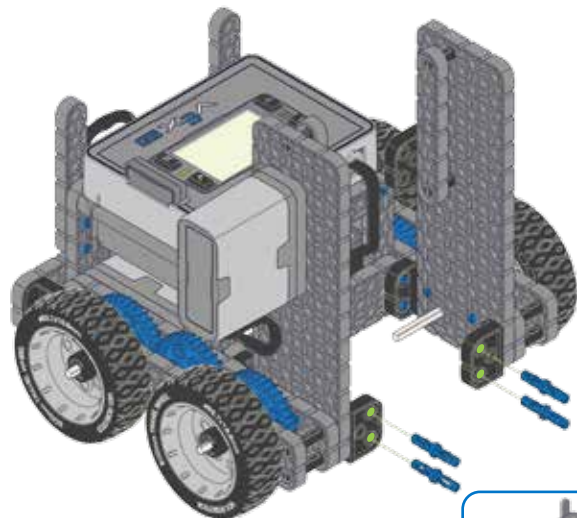
228-2500-021



vexiq.com/clawbotiq/31

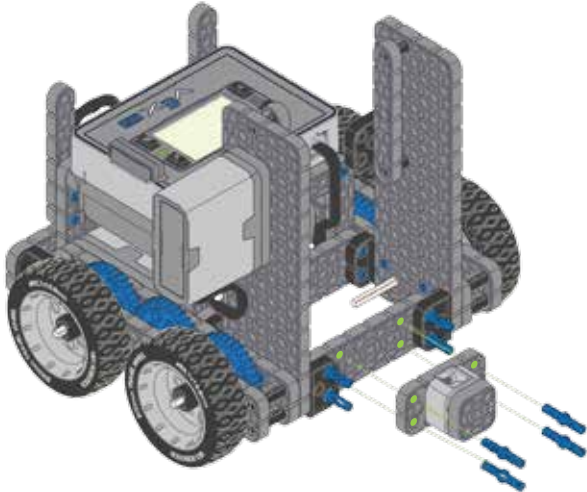
30

4x  
228-2500-062



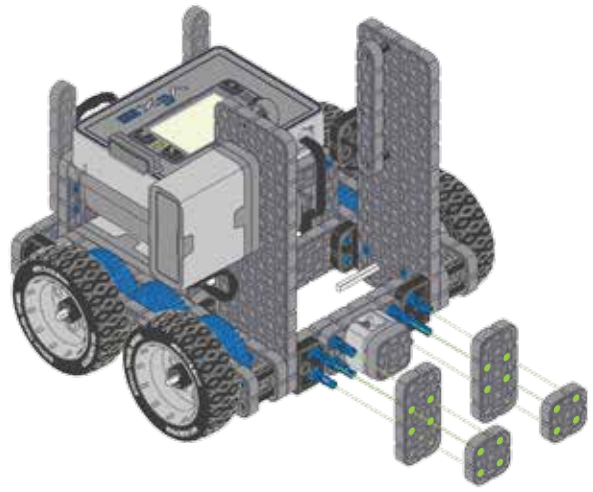
vexiq.com/clawbotiq/30

32

4x  
228-2500-0621x  
228-2677

vexiq.com/clawbotiq/32

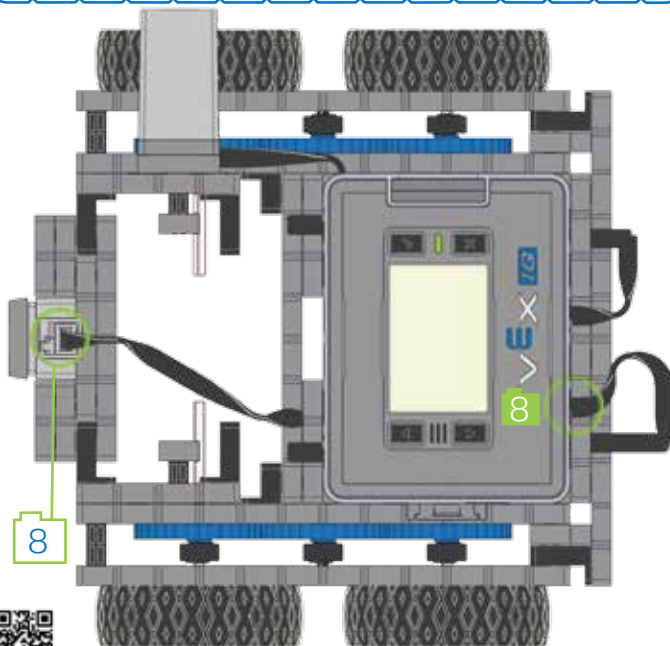
33

2x  
228-2500-0172x  
228-2500-019

vexiq.com/clawbotiq/33

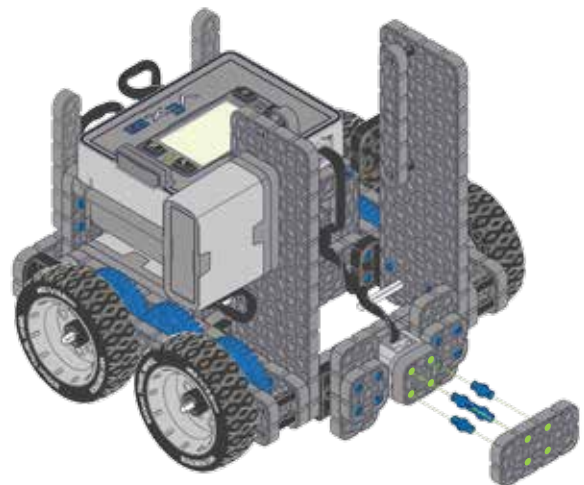
34

228-2780-002 300mm



vexiq.com/clawbotiq/34

35

4x  
228-2500-0601x  
228-2500-019

vexiq.com/clawbotiq/35



36



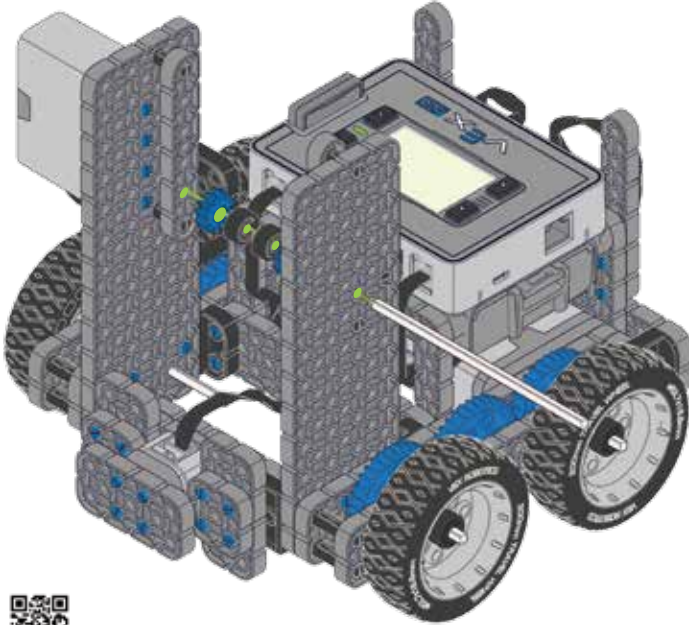
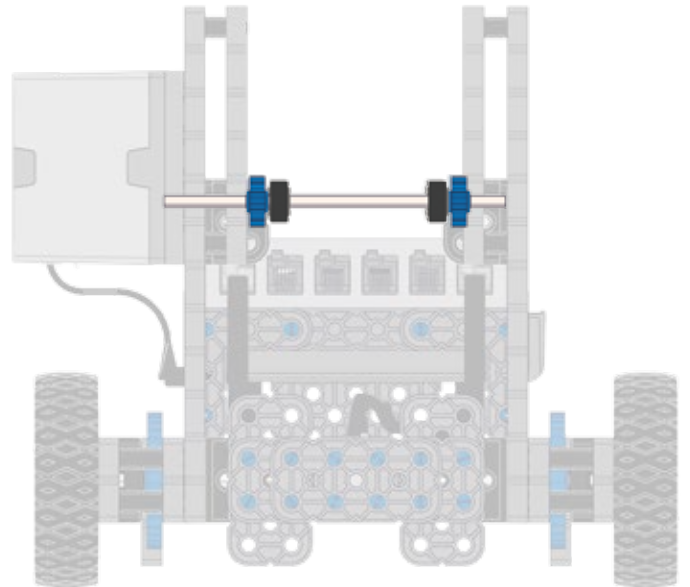
228-250-143



228-2500-213

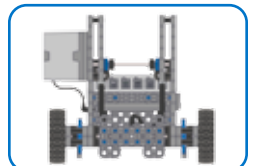
1x

228-2500-124 (8xP)



vexiq.com/clawbotiq/36

1:1

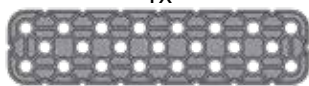


37

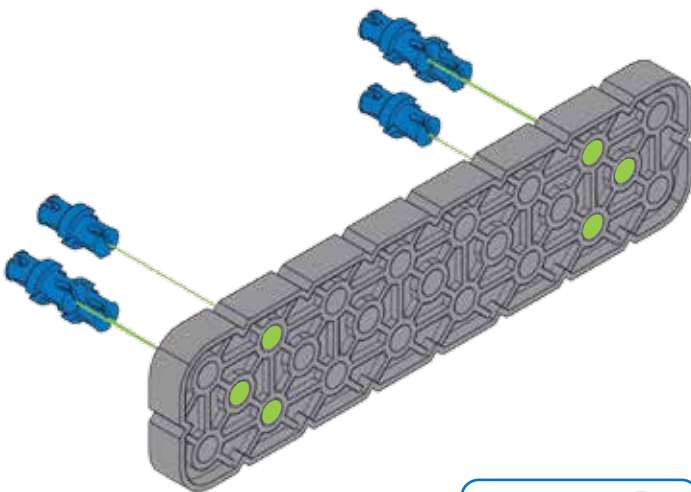


228-2500-060

1x

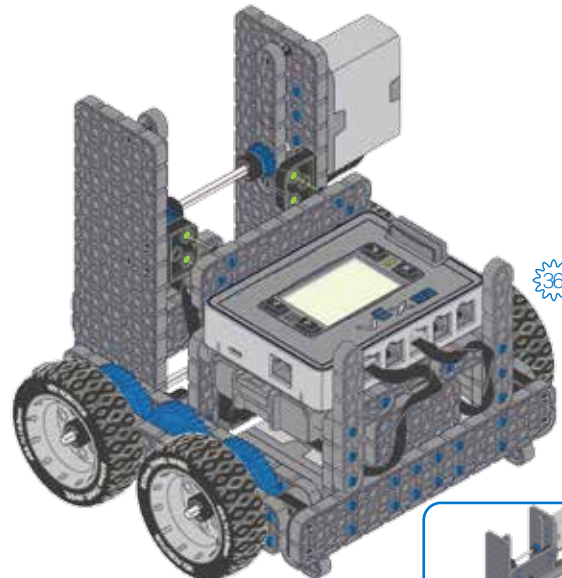
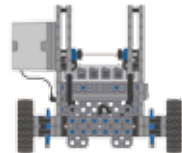
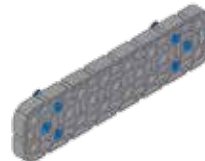


228-2500-023



vexiq.com/clawbotiq/37

38



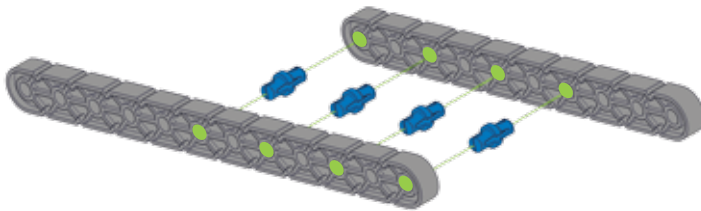
vexiq.com/clawbotiq/38



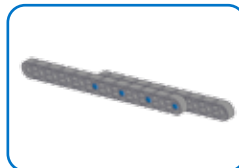
39

4x  
228-2500-060

1x  
228-2500-011  
1x  
228-2500-009



vexiq.com/clawbotiq/39

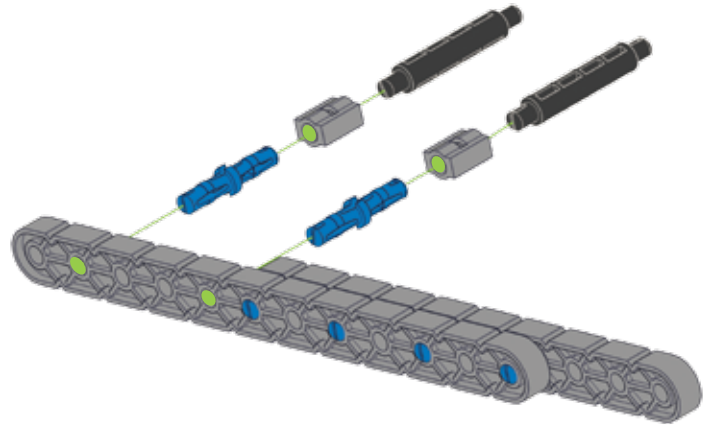


40

2x  
228-2500-062

2x  
228-2500-170

2x  
228-2500-067



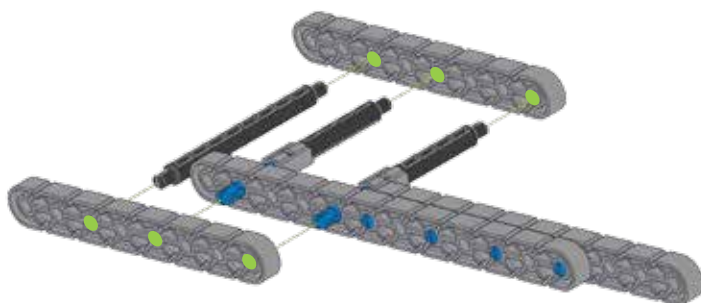
vexiq.com/clawbotiq/40



41

2x  
228-2500-007

1x  
228-2500-070

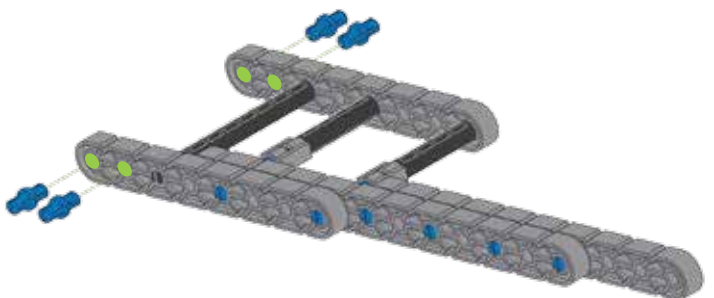


vexiq.com/clawbotiq/41



42

4x  
228-2500-060

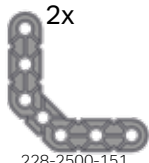


vexiq.com/clawbotiq/42



43

2x



228-2500-151

1x



228-2500-170

2x



228-2500-067

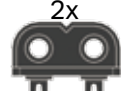


vexiq.com/clawbotiq/43



44

2x



228-2500-128



vexiq.com/clawbotiq/44



45

2x



228-2500-070



vexiq.com/clawbotiq/45



46

2x



228-2500-130



vexiq.com/clawbotiq/46





47

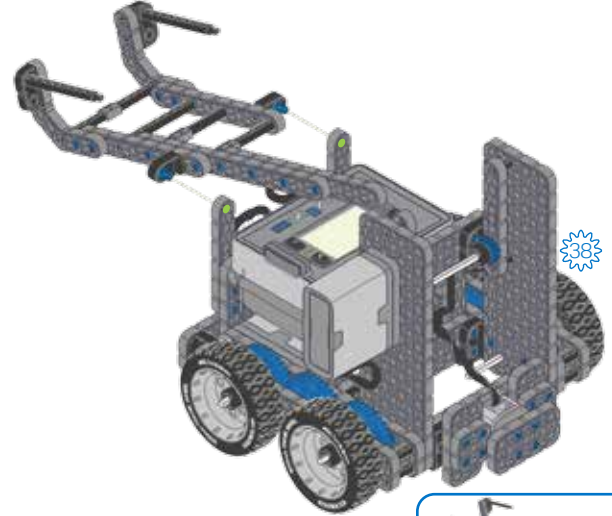
2x  
228-2500-060



vexiq.com/clawbotiq/47



48



vexiq.com/clawbotiq/48

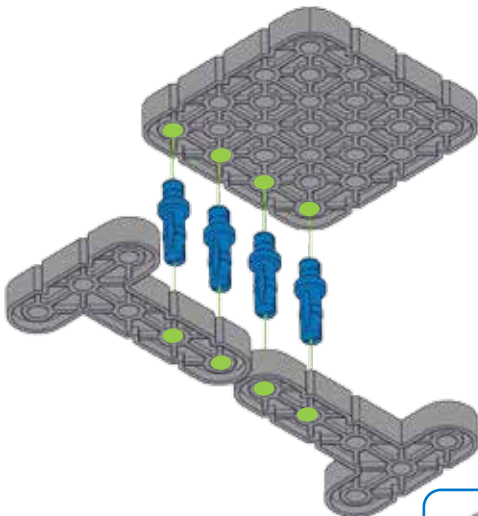


49

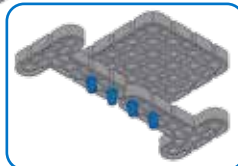
4x  
228-2500-061

1x  
228-2500-040

2x  
228-2500-144



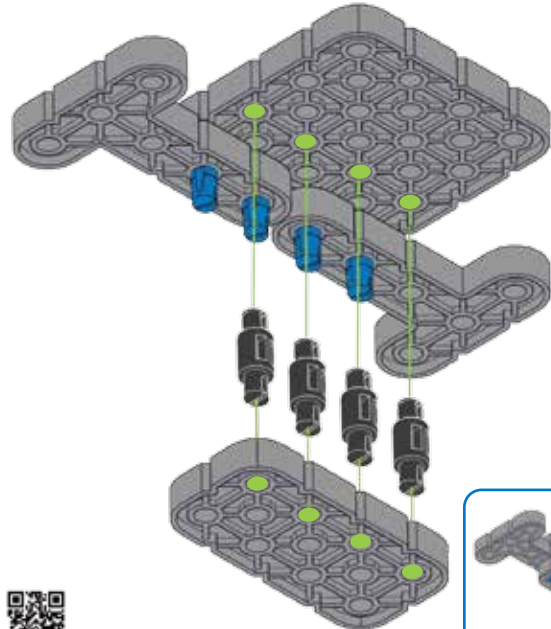
vexiq.com/clawbotiq/49



50

4x  
228-2500-064

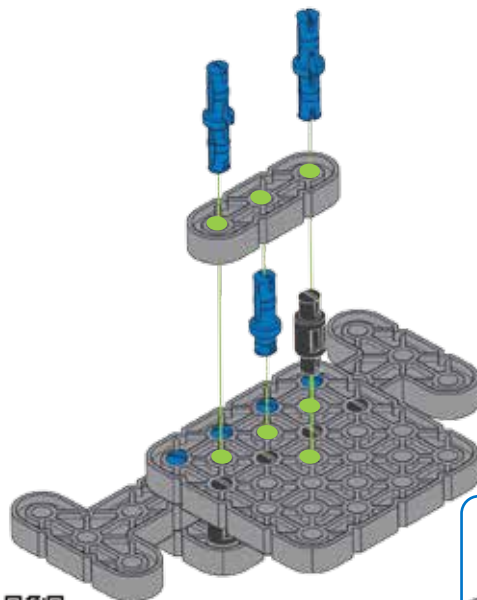
1x  
228-2500-019



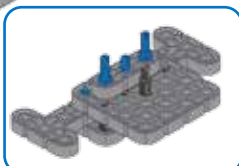
vexiq.com/clawbotiq/50



51

1x  
228-2500-0612x  
228-2500-0621x  
228-2500-0641x  
228-2500-002

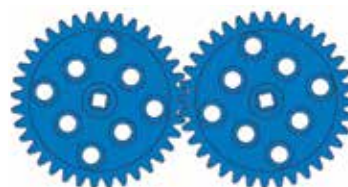
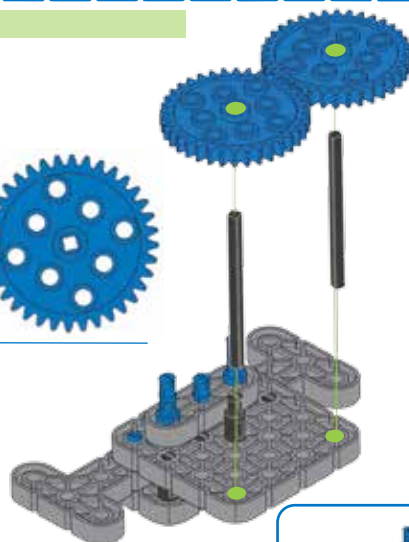
vexiq.com/clawbotiq/51



52

2x  
228-2500-2142x  
228-2500-076 (4xP)

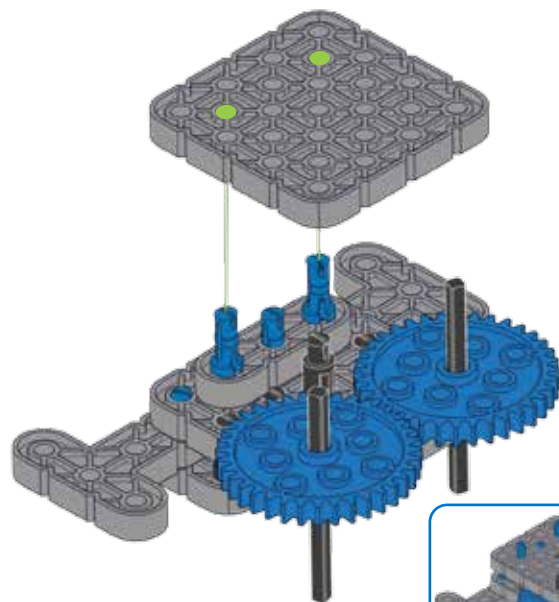
1:1

确保齿轮对齐，  
齿轮啮合（如图）

vexiq.com/clawbotiq/52



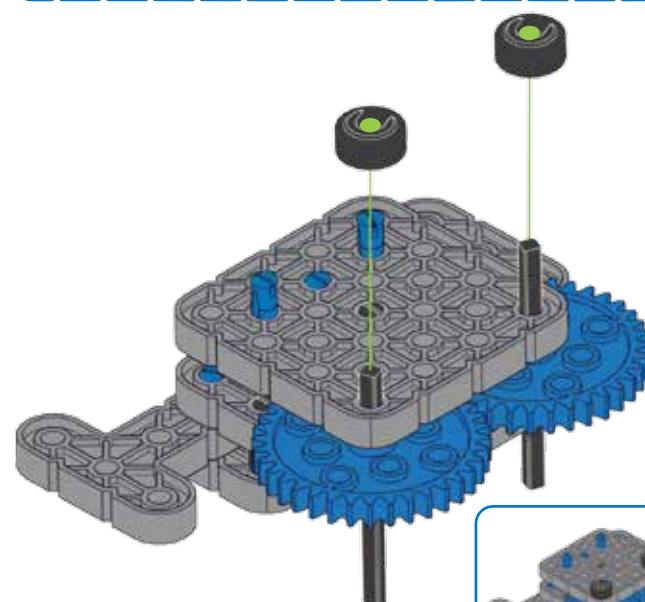
53

1x  
228-2500-040

vexiq.com/clawbotiq/53



54

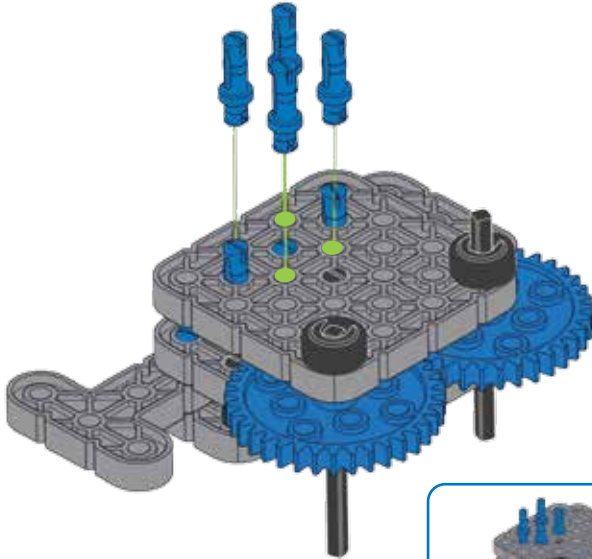
2x  
228-2500-143

vexiq.com/clawbotiq/54



55

4x  
228-2500-061

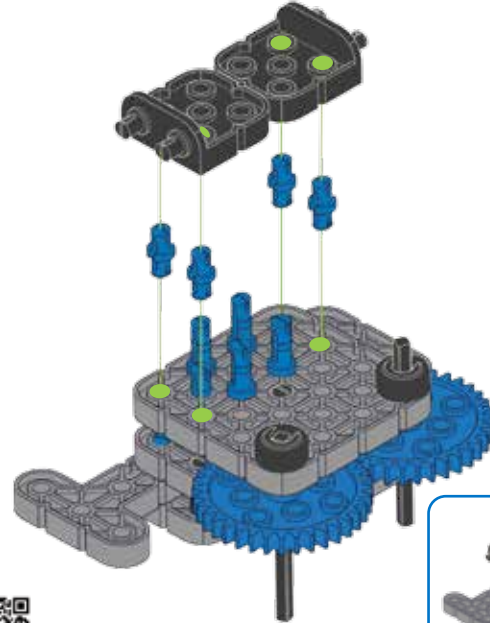


vexiq.com/clawbotiq/55

56

4x  
228-2500-060

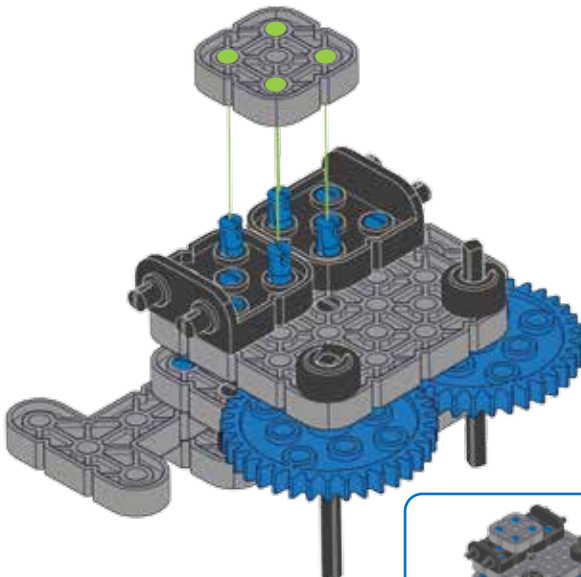
2x  
228-2500-134



vexiq.com/clawbotiq/56

57

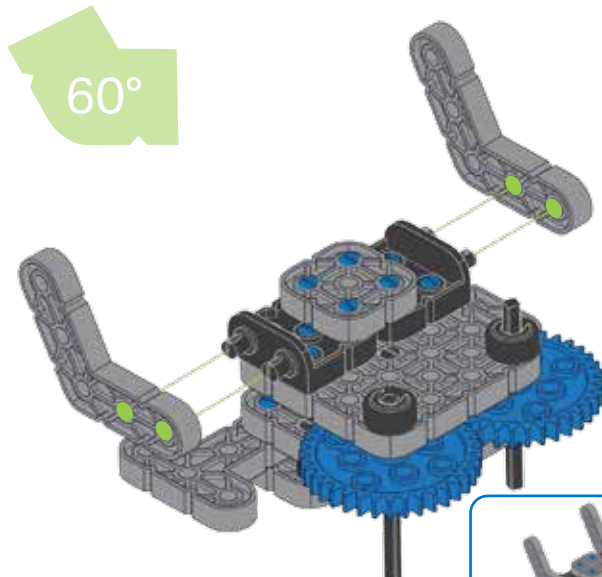
1x  
228-2500-017



vexiq.com/clawbotiq/57

58

2x  
228-2500-149 (60°)



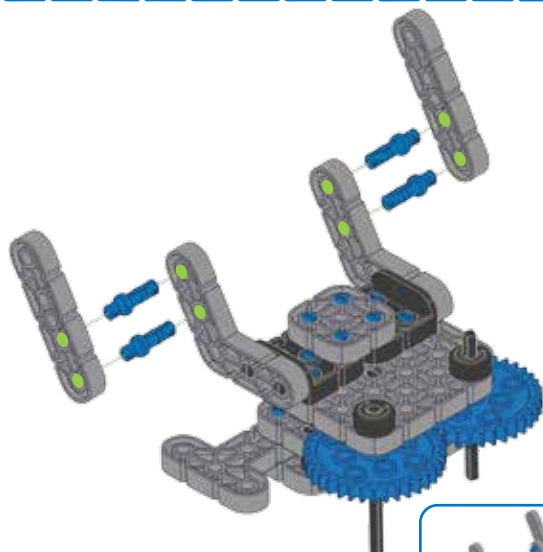
vexiq.com/clawbotiq/58



59

4x  
228-2500-061

2x  
228-2500-003

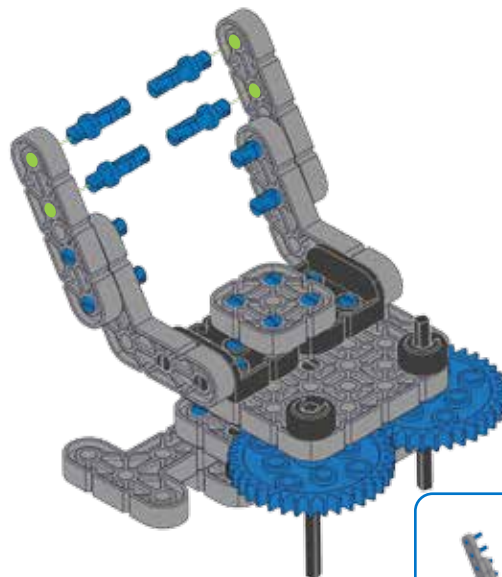


vexiq.com/clawbotiq/59



60

4x  
228-2500-061

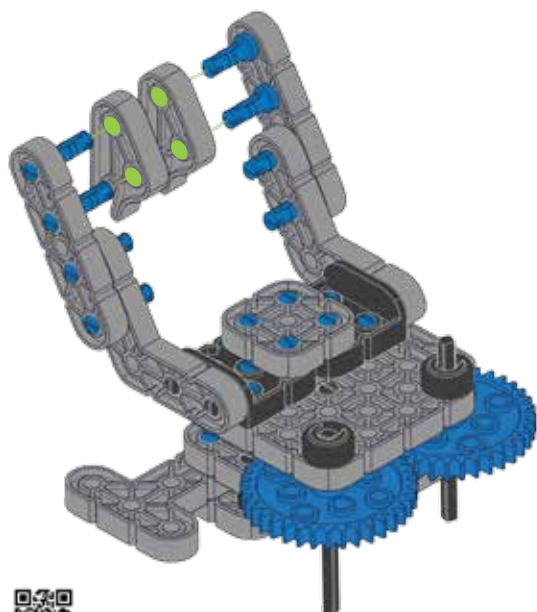


vexiq.com/clawbotiq/60



61

2x  
228-2500-157

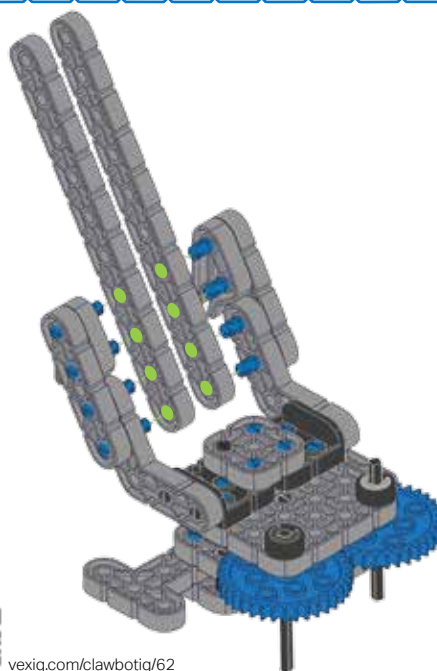


vexiq.com/clawbotiq/61



62

2x  
228-2500-009



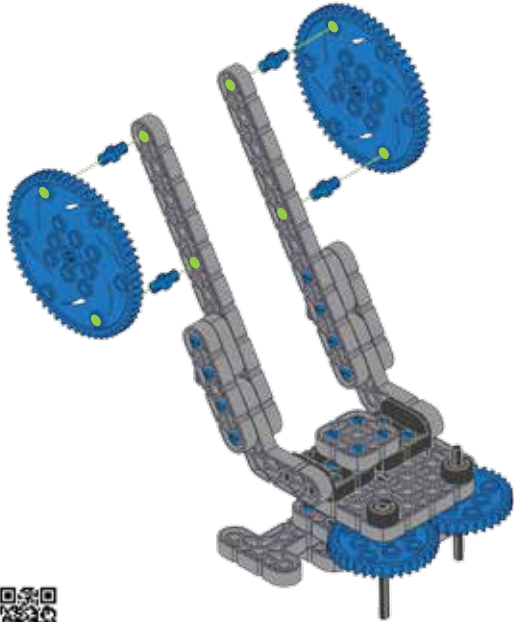
vexiq.com/clawbotiq/62



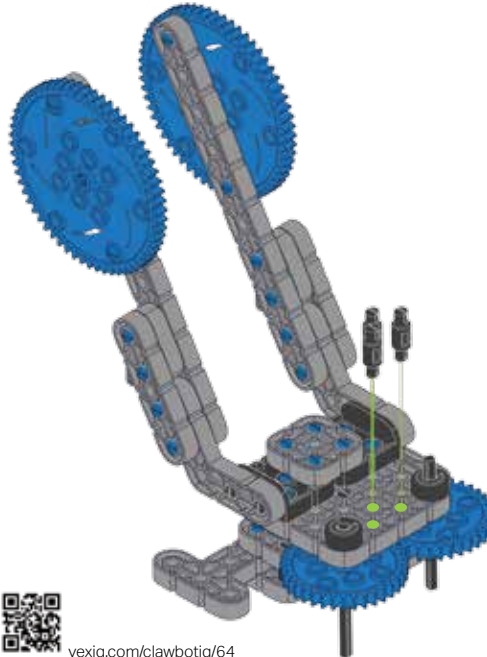
63

4x  
228-2500-060

2x

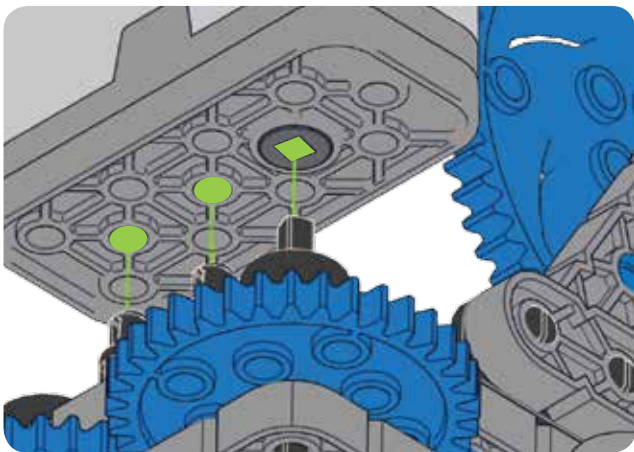
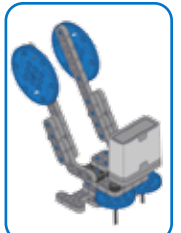
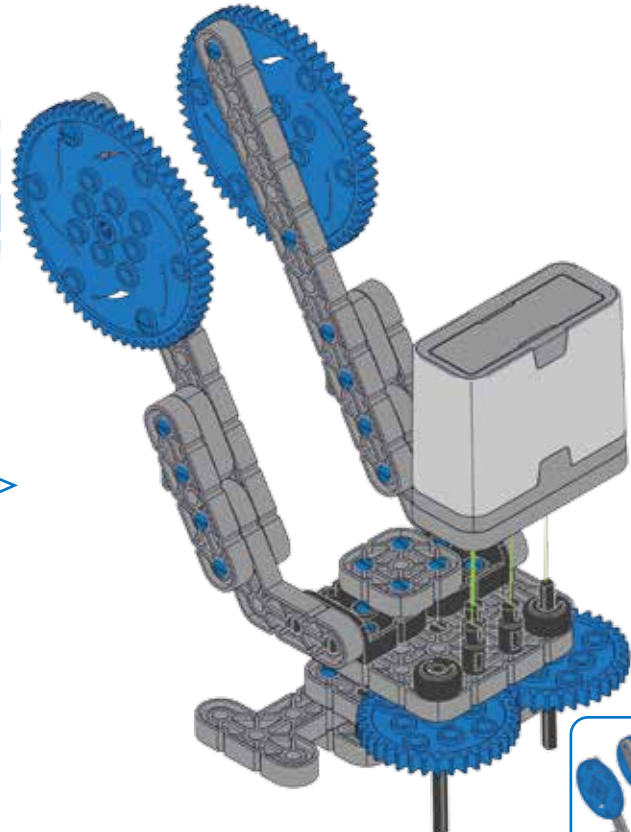

[vexiq.com/clawbotiq/63](http://vexiq.com/clawbotiq/63)

64

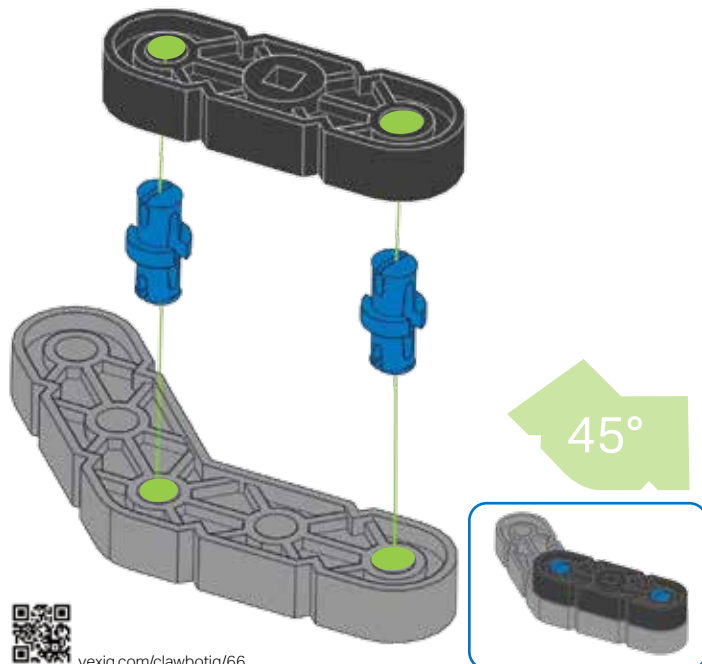
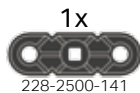
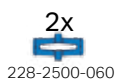
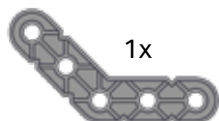
3x  
228-2500-064
[vexiq.com/clawbotiq/64](http://vexiq.com/clawbotiq/64)

65

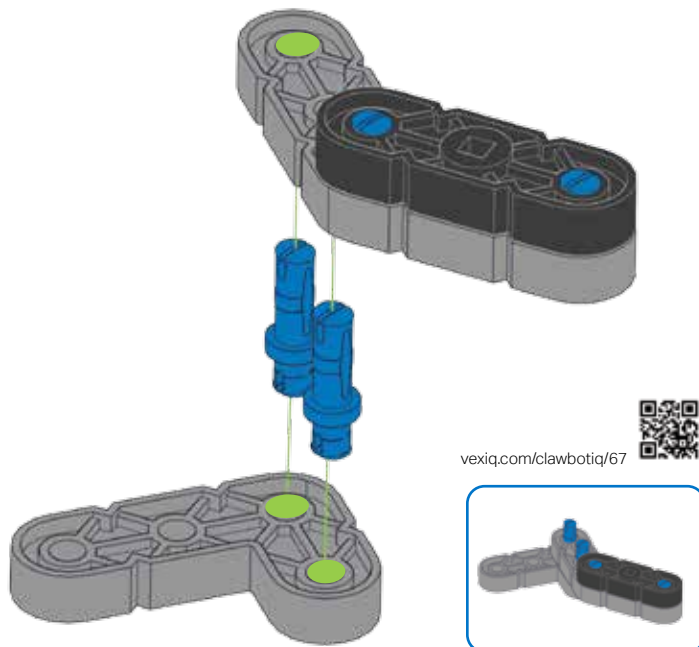
1x


[vexiq.com/clawbotiq/65](http://vexiq.com/clawbotiq/65)


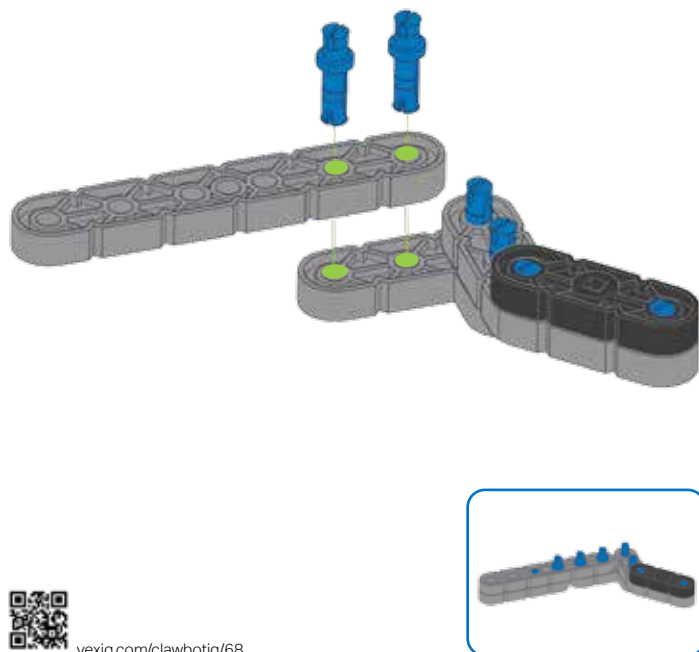
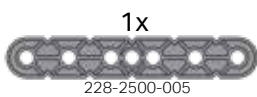
66



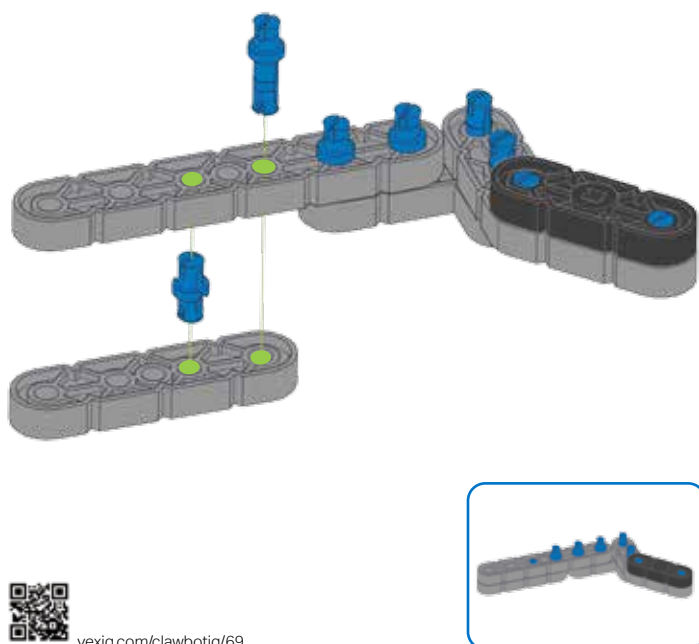
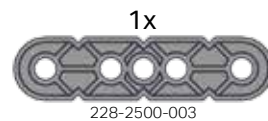
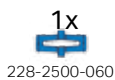
67



68

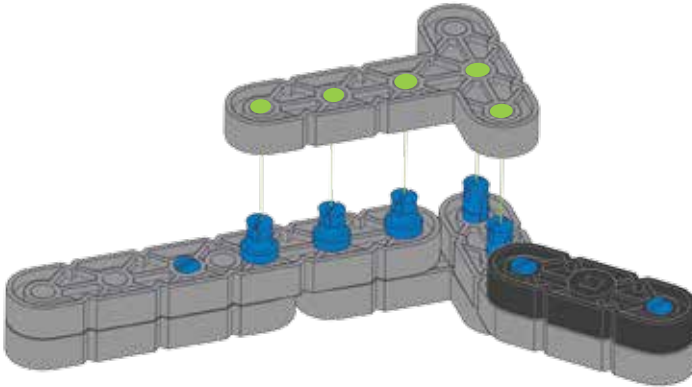


69



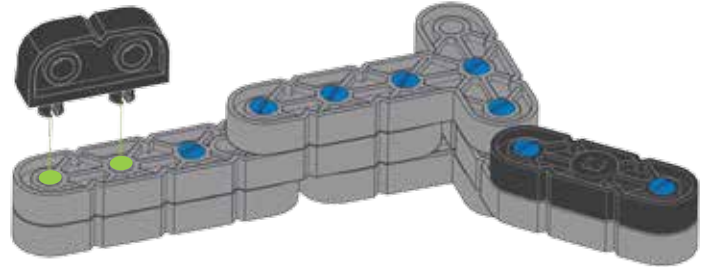
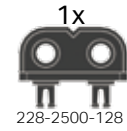


70

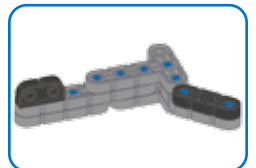


vexiq.com/clawbotiq/70

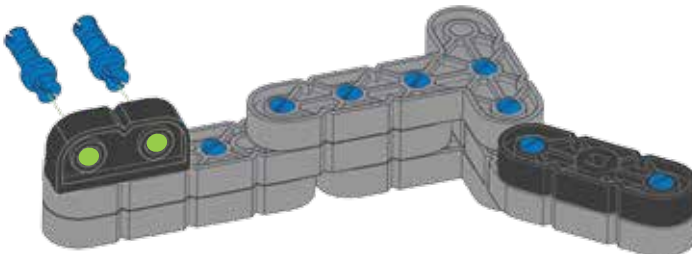
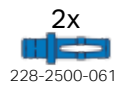
71



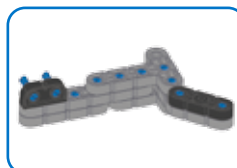
vexiq.com/clawbotiq/71



72



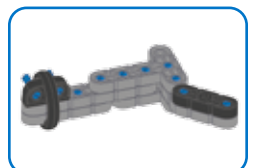
vexiq.com/clawbotiq/72



73

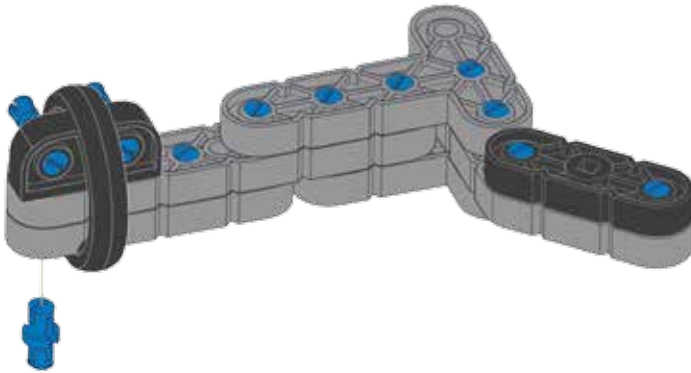


vexiq.com/clawbotiq/73

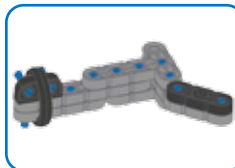


74

1x  
228-2500-060

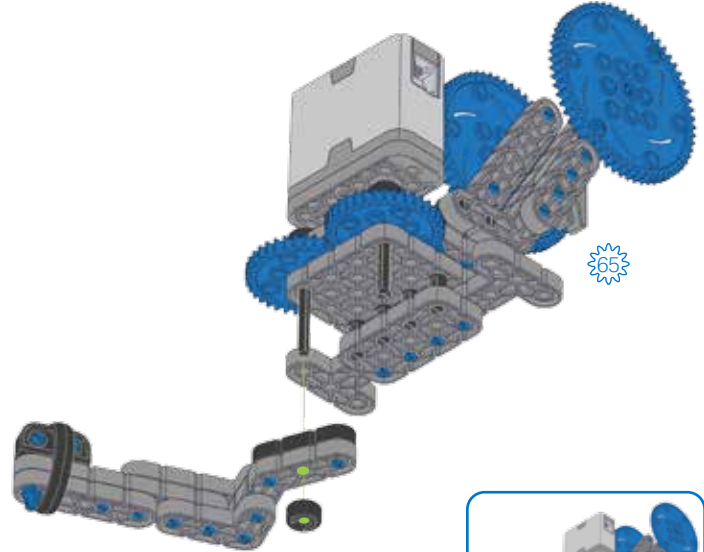


vexiq.com/clawbotiq/74



75

1x  
228-2500-143



vexiq.com/clawbotiq/75

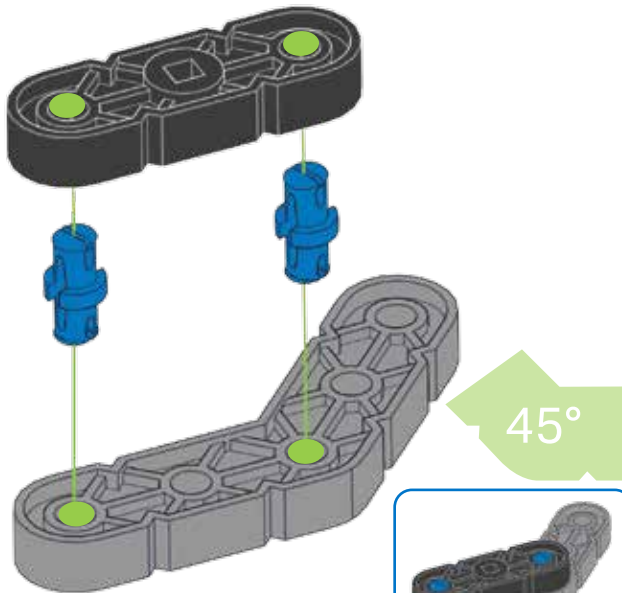


76

1x  
228-2500-148 45°

2x  
228-2500-060

1x  
228-2500-141



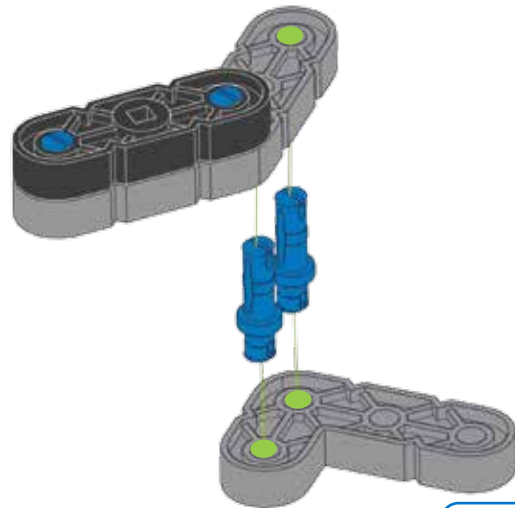
vexiq.com/clawbotiq/76



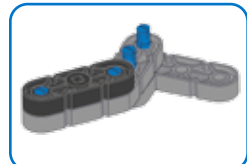
77

1x  
228-2500-145

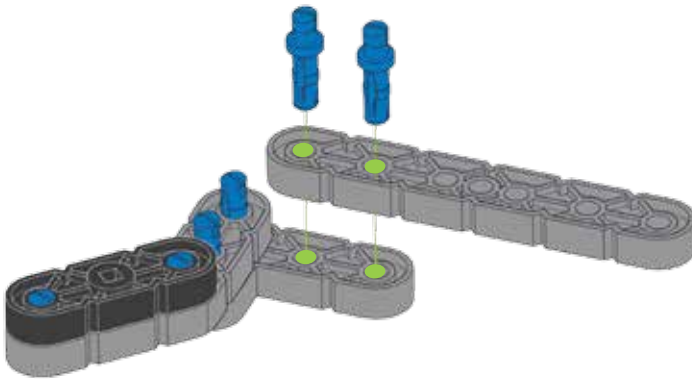
2x  
228-2500-061



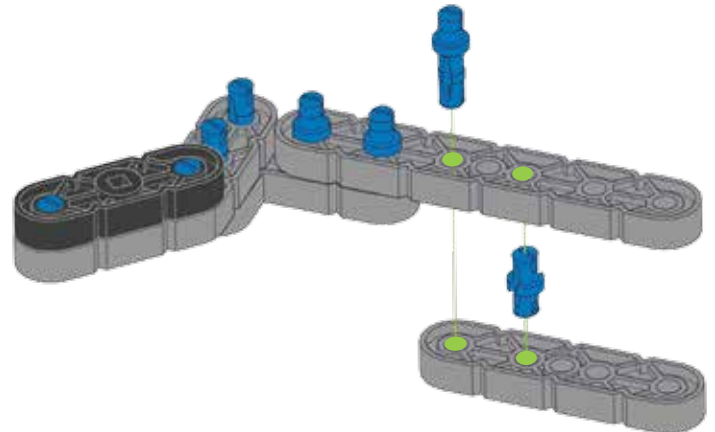
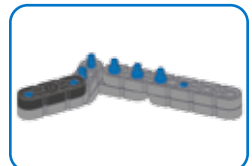
vexiq.com/clawbotiq/77



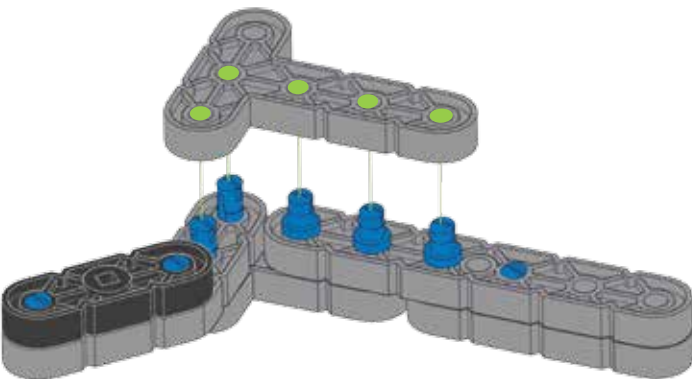
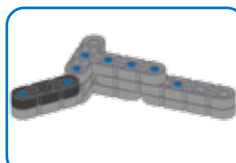
78


[vexiq.com/clawbotiq/78](http://vexiq.com/clawbotiq/78)

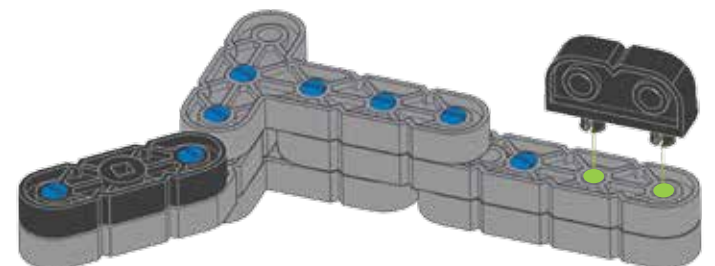
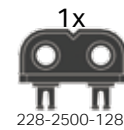
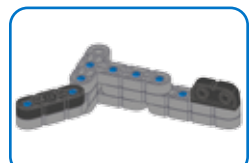

79


[vexiq.com/clawbotiq/79](http://vexiq.com/clawbotiq/79)


80


[vexiq.com/clawbotiq/80](http://vexiq.com/clawbotiq/80)


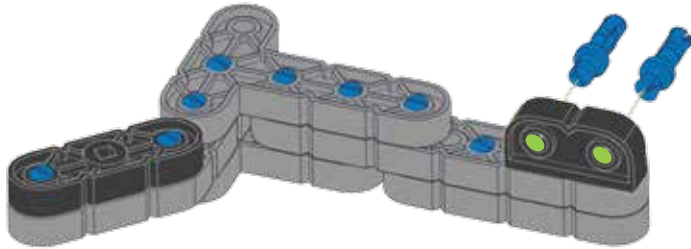
81


[vexiq.com/clawbotiq/81](http://vexiq.com/clawbotiq/81)


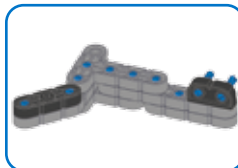


82

2x  
228-2500-061



vexiq.com/clawbotiq/82

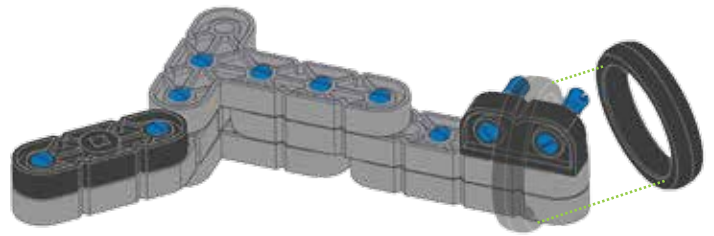


83

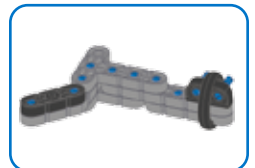
1x



228-2500-207

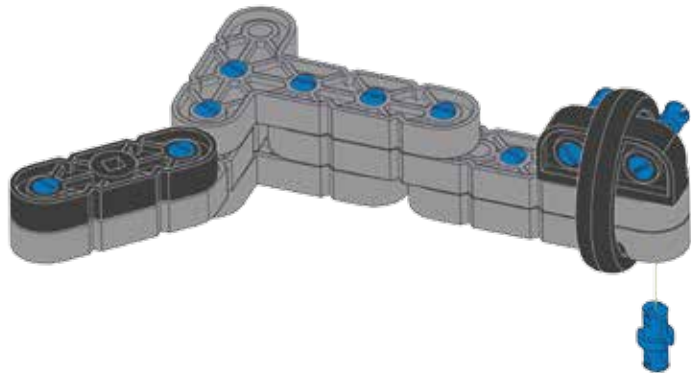


vexiq.com/clawbotiq/83

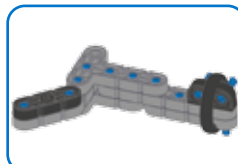


84

1x  
228-2500-060



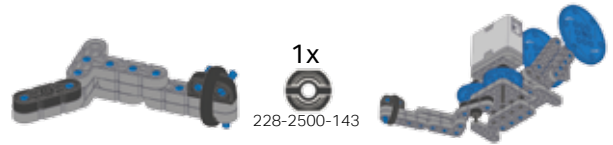
vexiq.com/clawbotiq/84



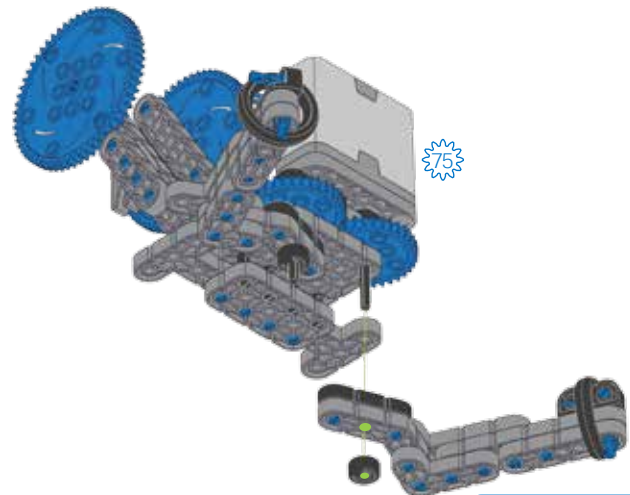
85

1x

228-2500-143



vexiq.com/clawbotiq/85



75

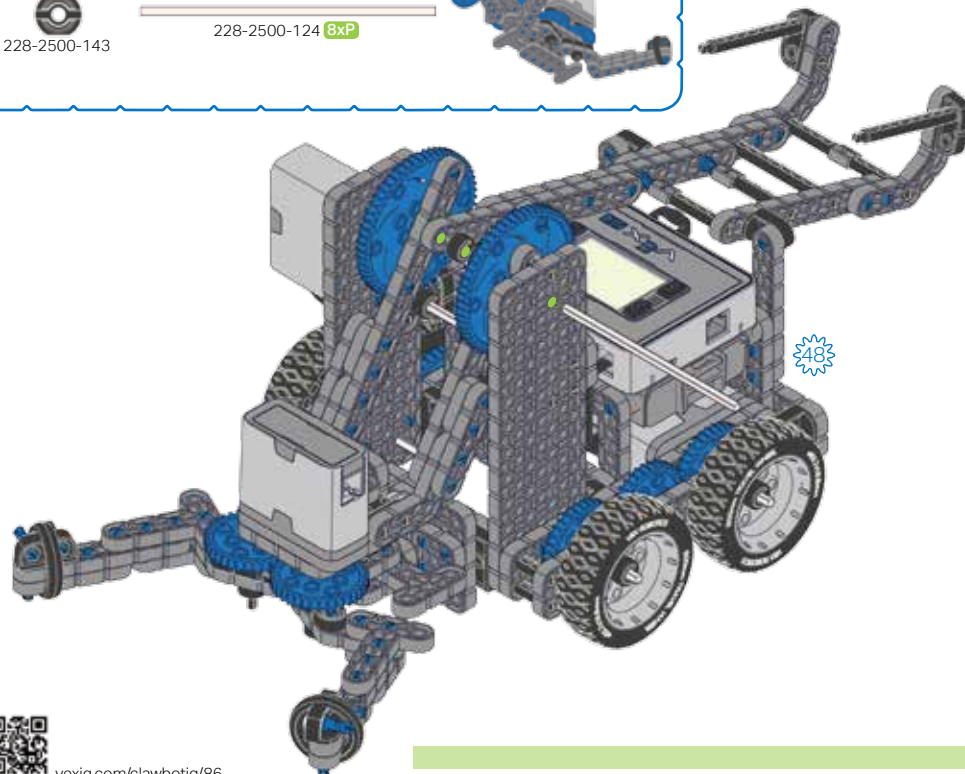
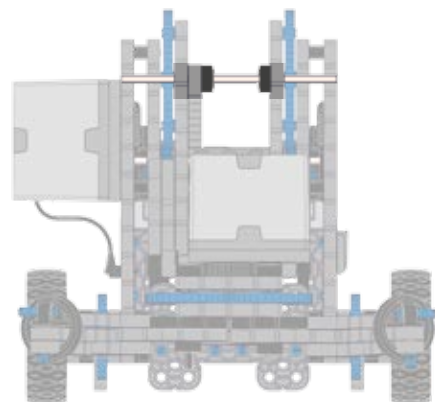
86

2x

228-2500-143

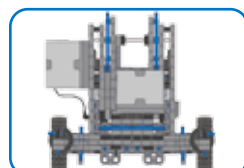
1x

228-2500-124 8xP



vexiq.com/clawbotiq/86

1:1



87



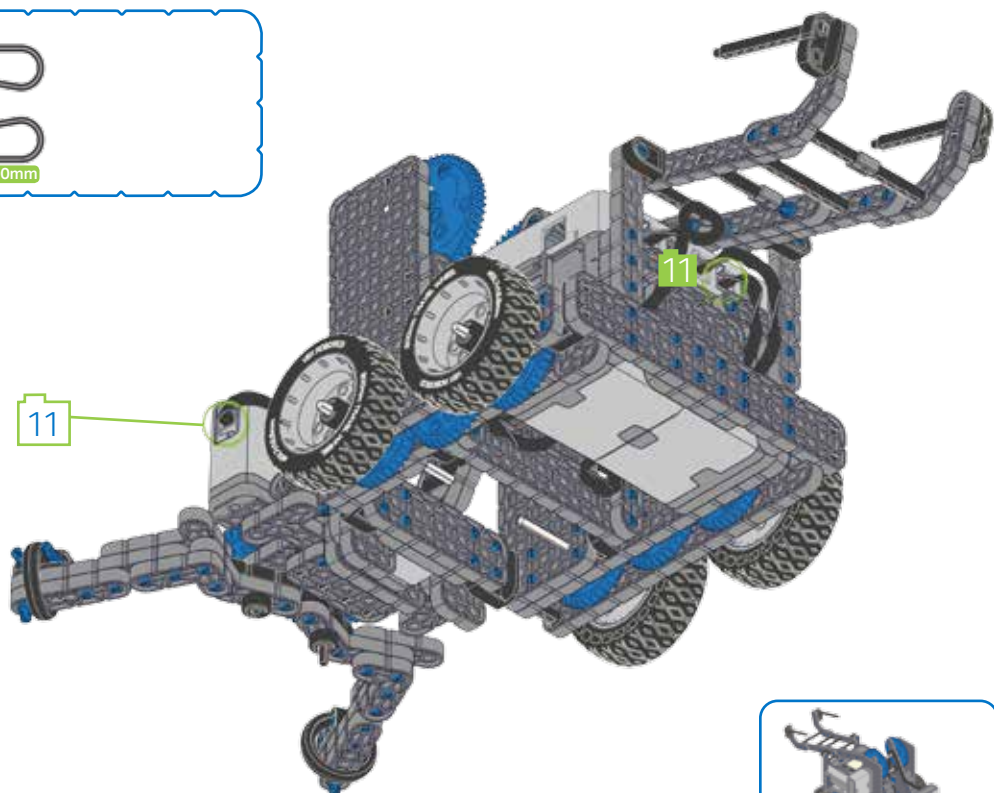
228-2780-004 600mm



查看遥控编程信息请见:



6.1

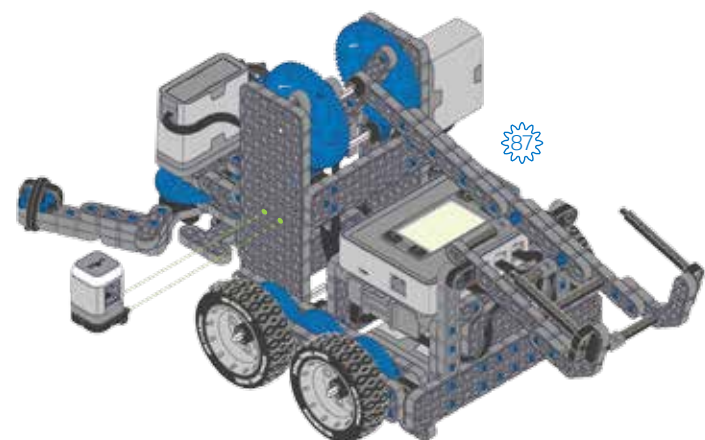


vexiq.com/clawbotiq/87

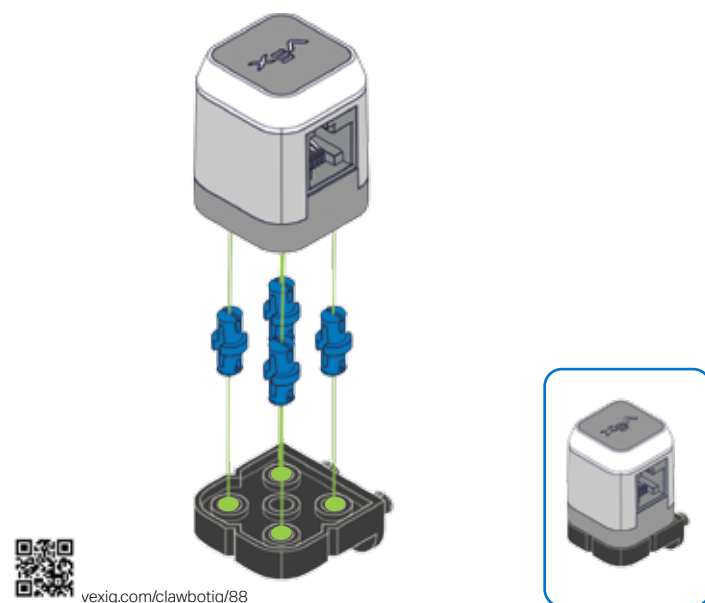
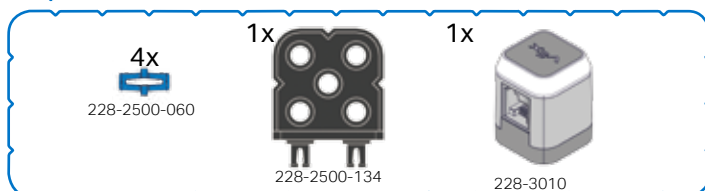


### 3 带传感器的IQ钳爪机器人

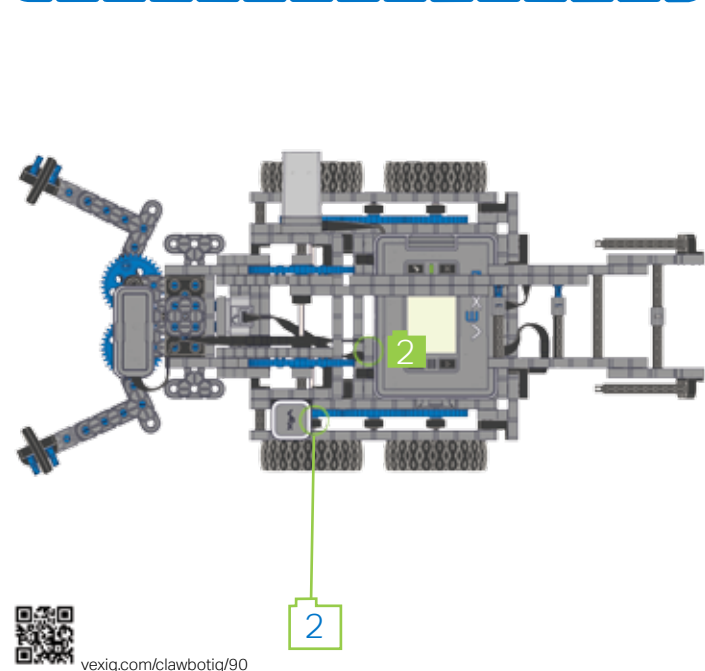
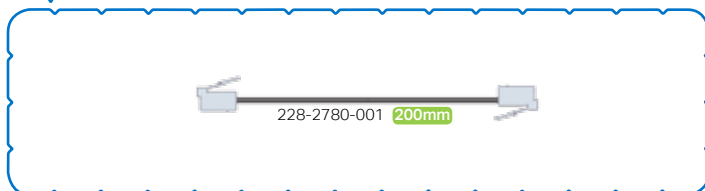
89



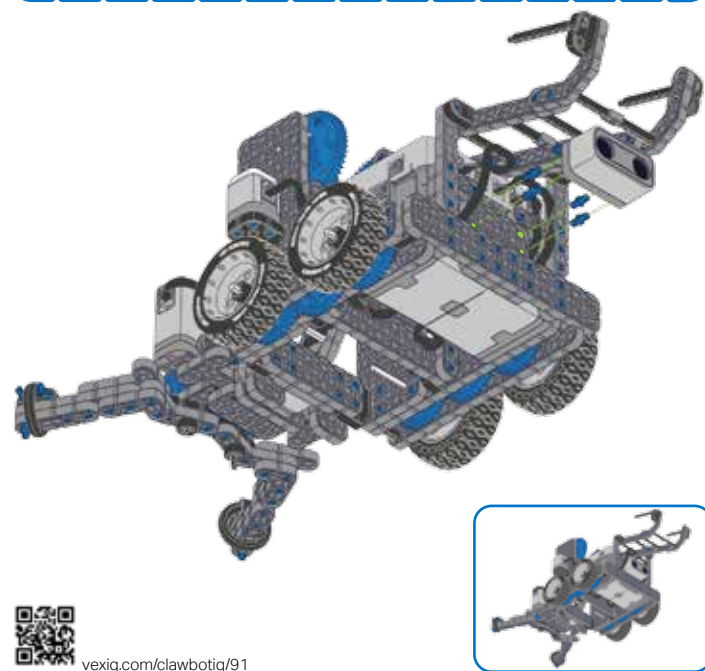
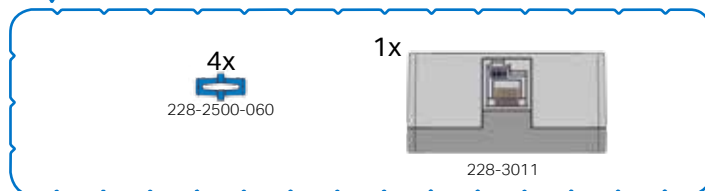
88



90

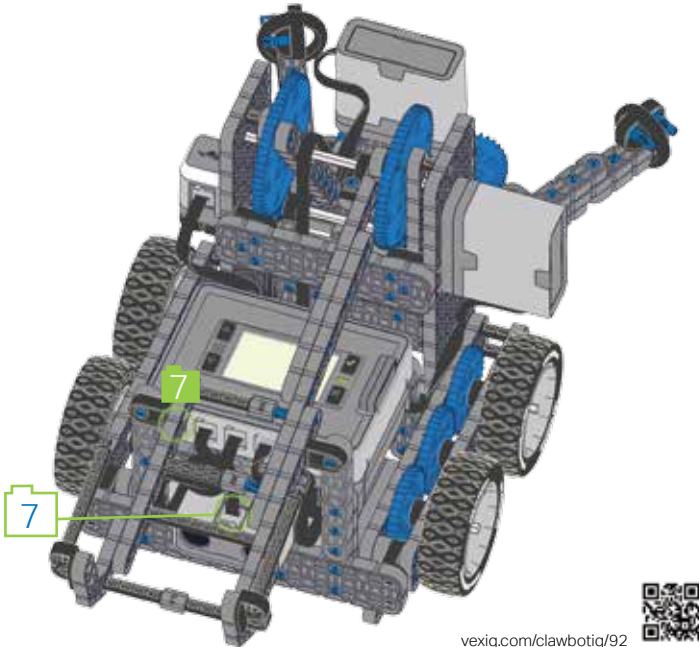


91

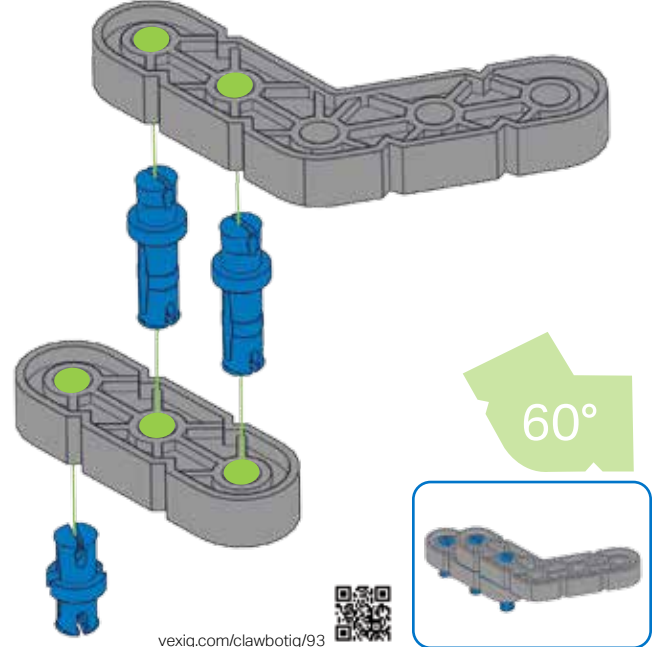
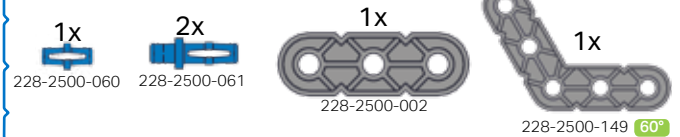




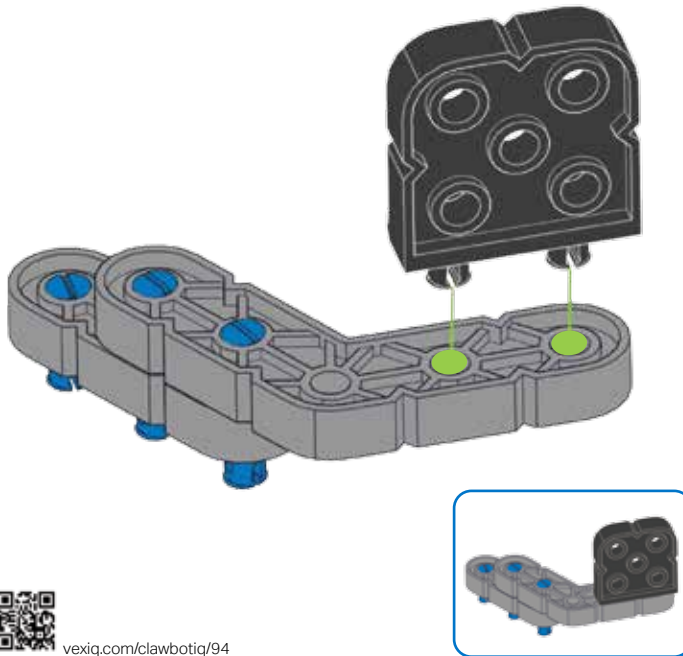
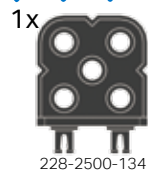
92



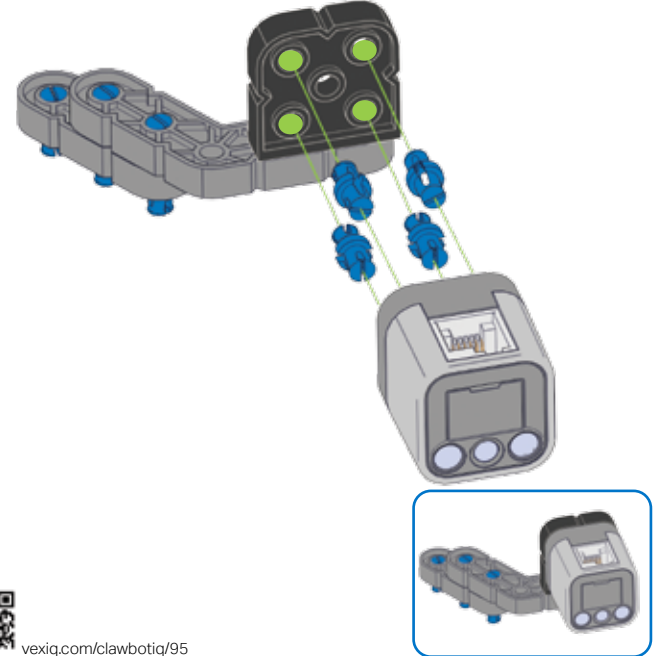
93



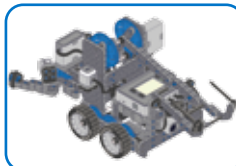
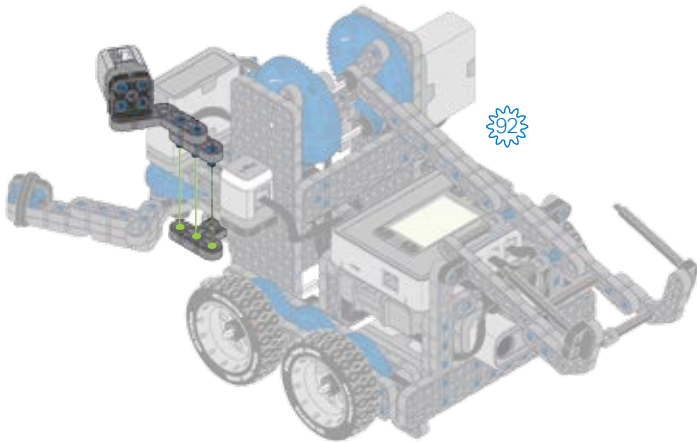
94



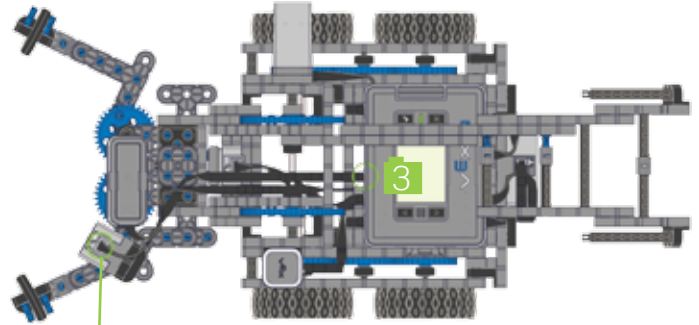
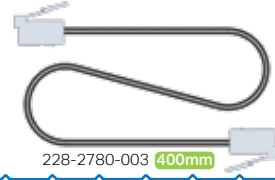
95



96


[vexiq.com/clawbotiq/96](http://vexiq.com/clawbotiq/96)

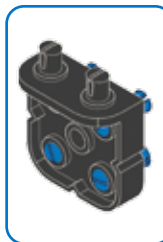
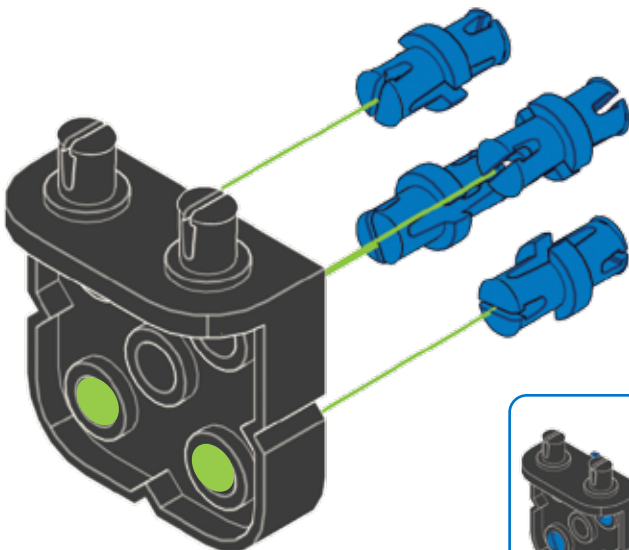
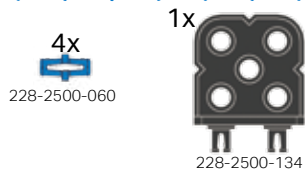
97



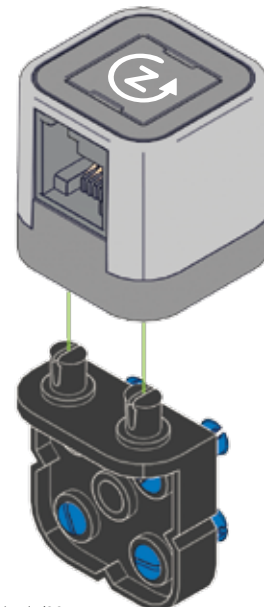
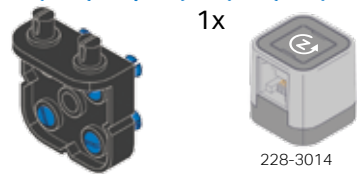
3


[vexiq.com/clawbotiq/97](http://vexiq.com/clawbotiq/97)

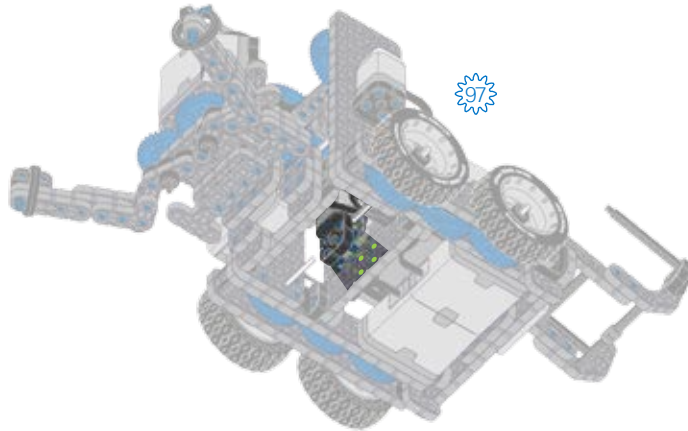
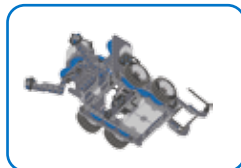
98


[vexiq.com/clawbotiq/98](http://vexiq.com/clawbotiq/98)

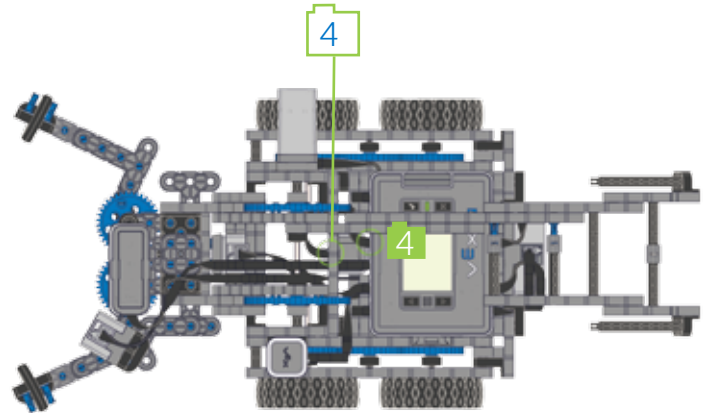
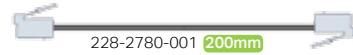
99


[vexiq.com/clawbotiq/99](http://vexiq.com/clawbotiq/99)

100


[vexiq.com/clawbotiq/100](http://vexiq.com/clawbotiq/100)


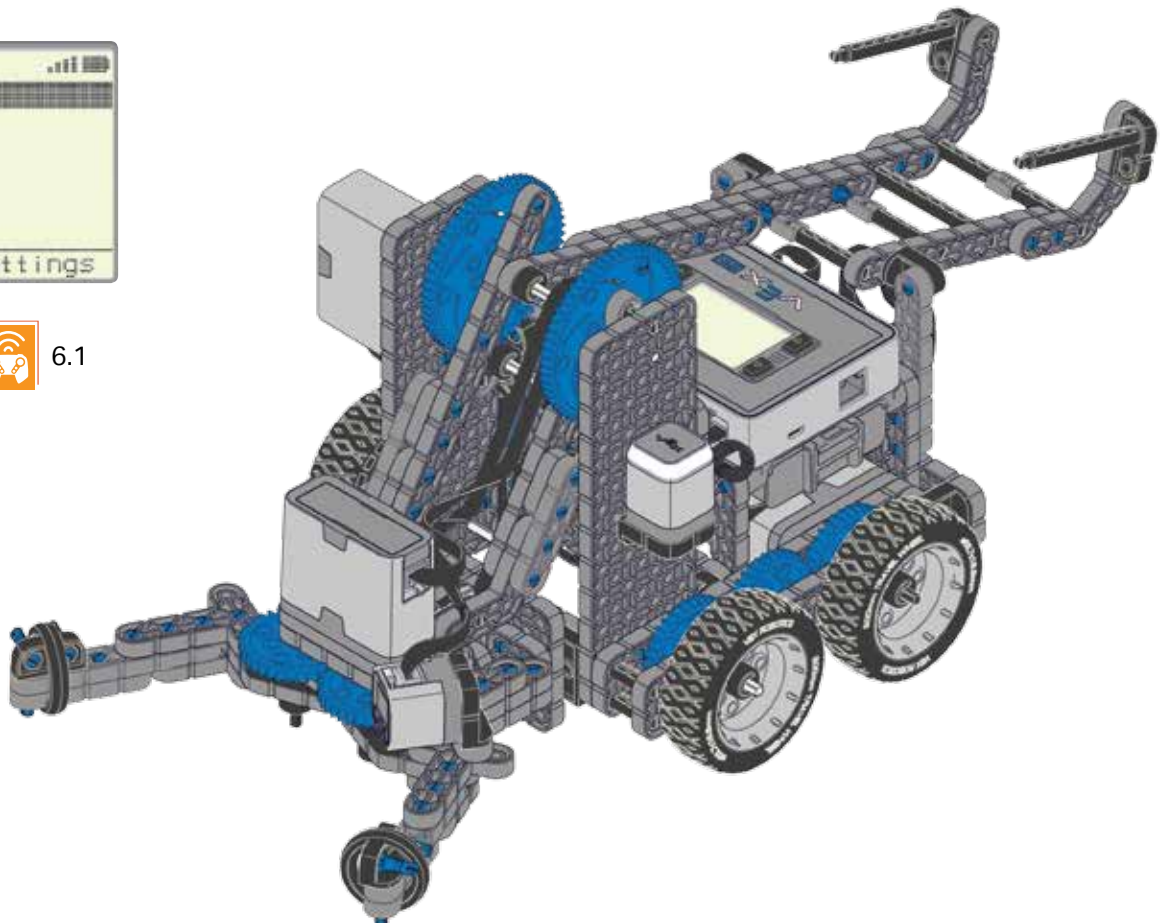
101


[vexiq.com/clawbotiq/101](http://vexiq.com/clawbotiq/101)


查看遥控编程信息请见:



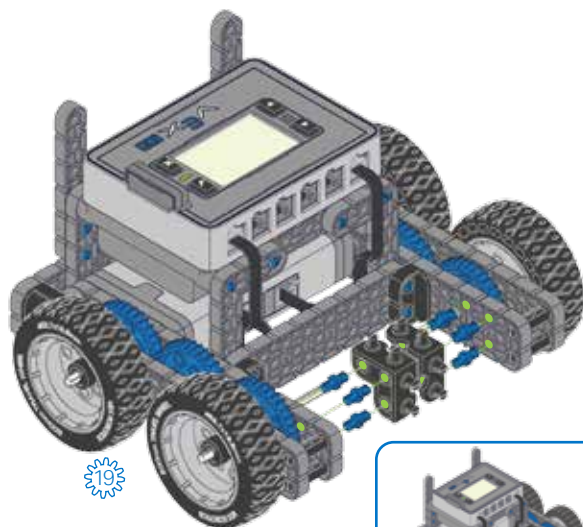
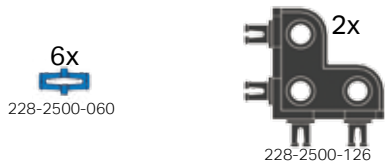
6.1





## 4 自驾机器人

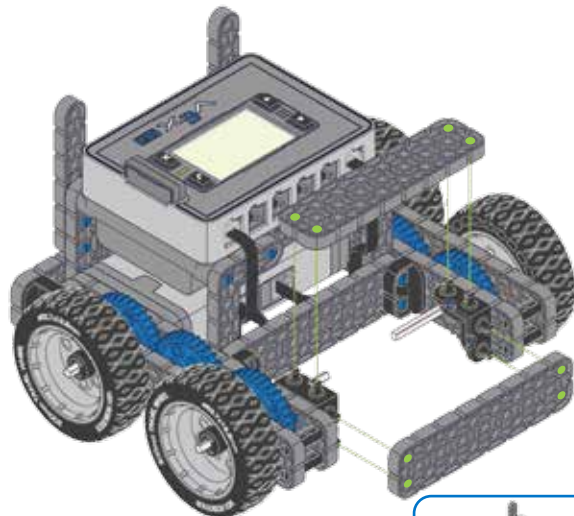
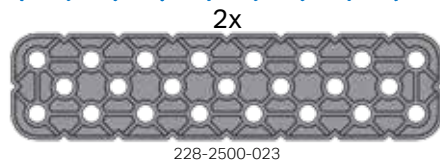
102



vexiq.com/clawbotiq/102



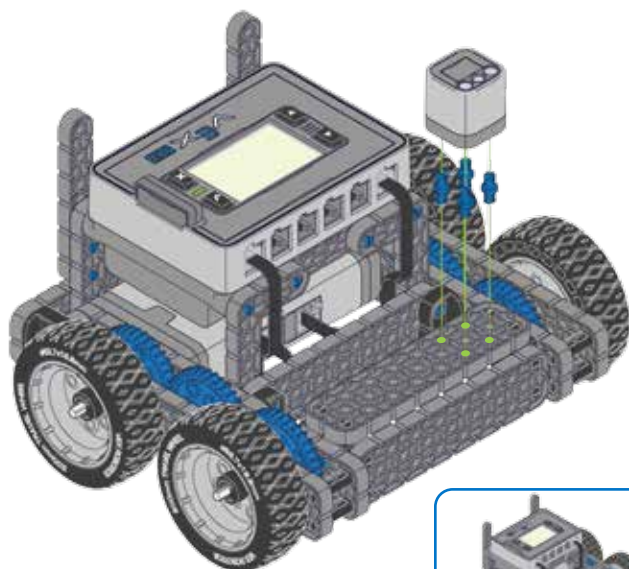
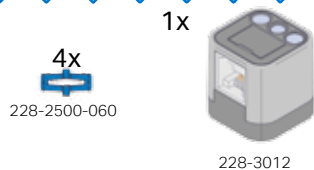
103



vexiq.com/clawbotiq/103



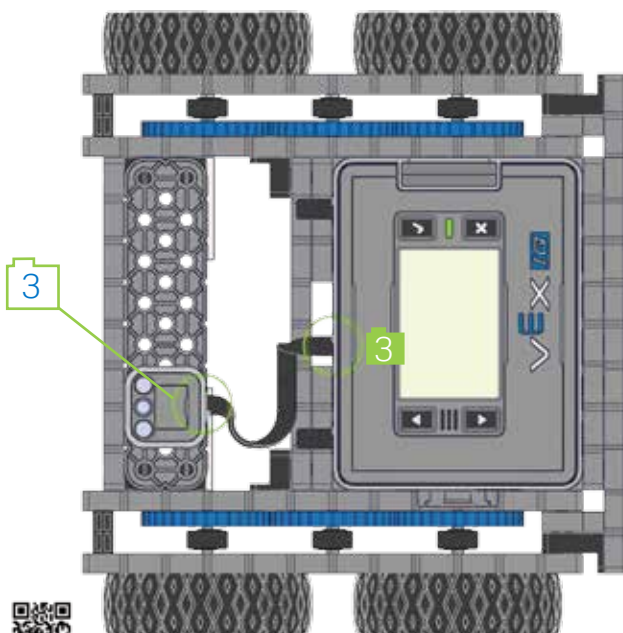
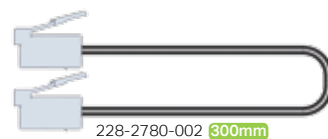
104



vexiq.com/clawbotiq/104



105



vexiq.com/clawbotiq/105

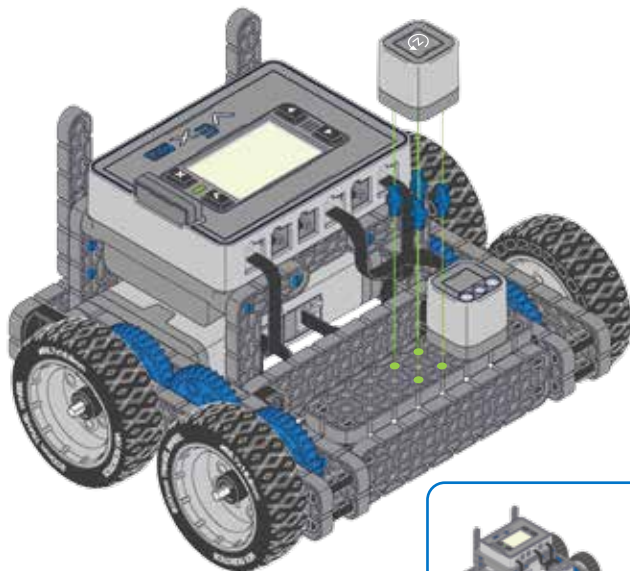
106

4x  
228-2500-060

1x



228-3014



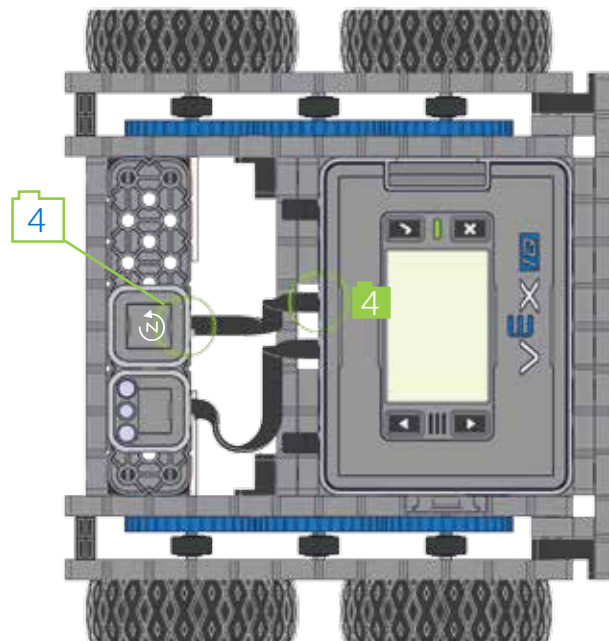
vexiq.com/clawbotiq/106



107



228-2780-002 300mm



vexiq.com/clawbotiq/107

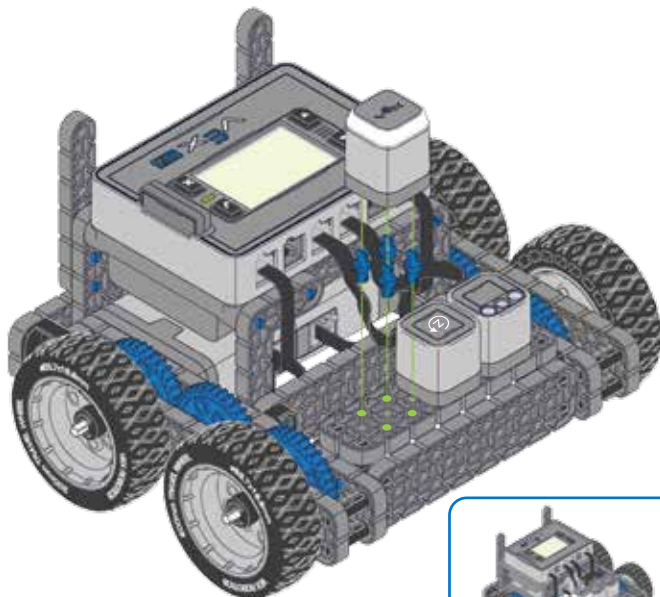
108

4x  
228-2500-060

1x



228-3010



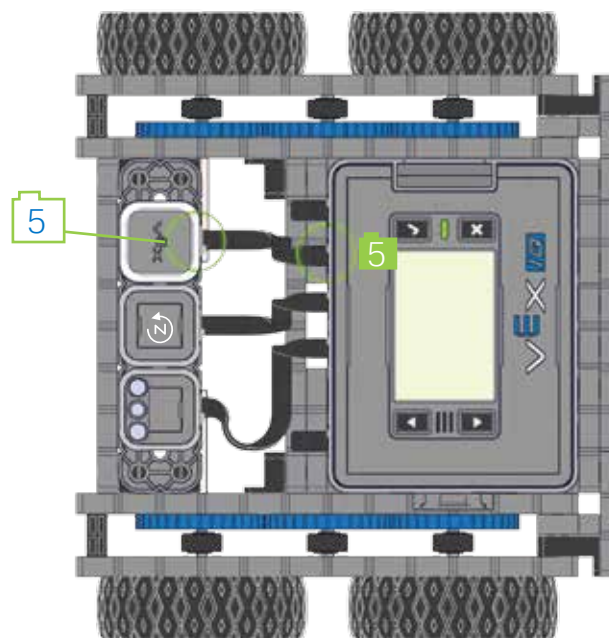
vexiq.com/clawbotiq/108



109



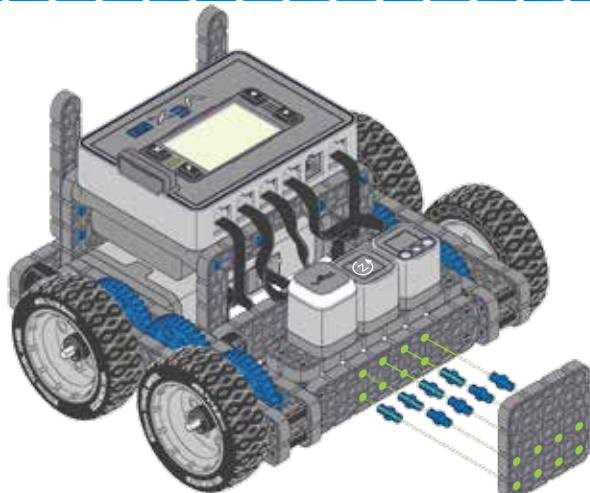
228-2780-002 300mm



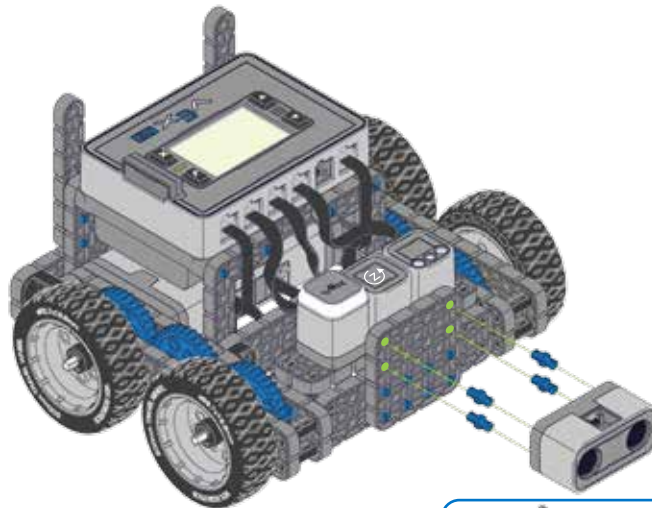
vexiq.com/clawbotiq/109



110

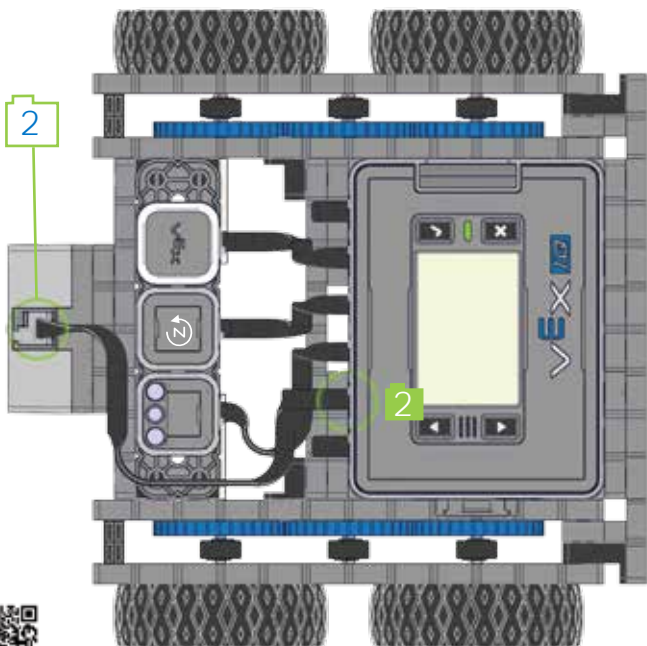
8x  
228-2500-0601x  
228-2500-040
[vexiq.com/clawbotiq/110](http://vexiq.com/clawbotiq/110)

111

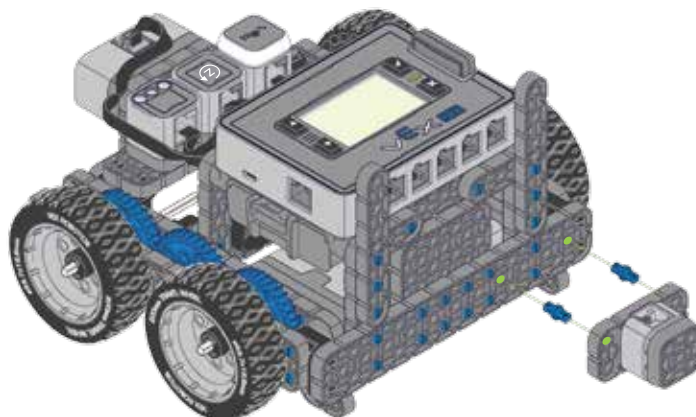
4x  
228-2500-0601x  
228-3011
[vexiq.com/clawbotiq/111](http://vexiq.com/clawbotiq/111)

112

228-2780-002 300mm

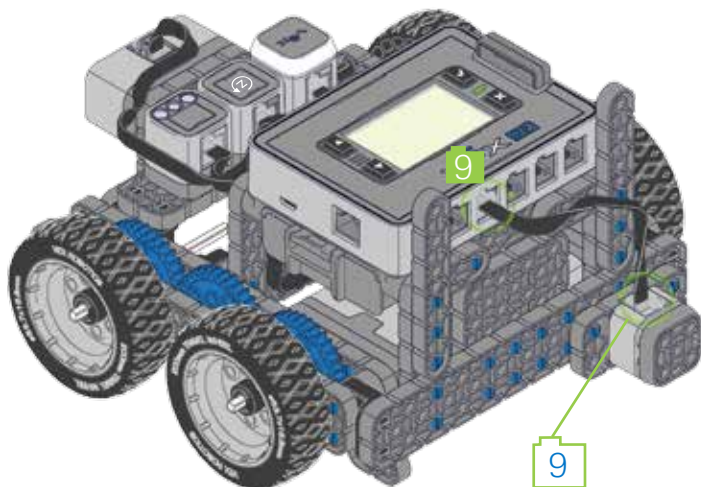

[vexiq.com/clawbotiq/112](http://vexiq.com/clawbotiq/112)

113

2x  
228-2500-0601x  
228-2677
[vexiq.com/clawbotiq/113](http://vexiq.com/clawbotiq/113)

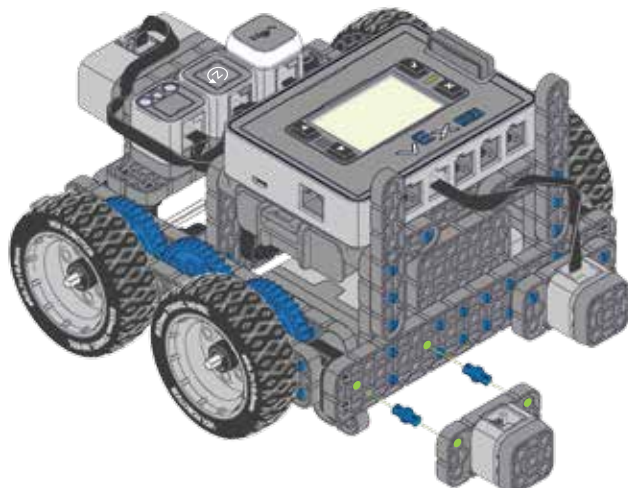
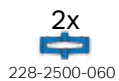


114



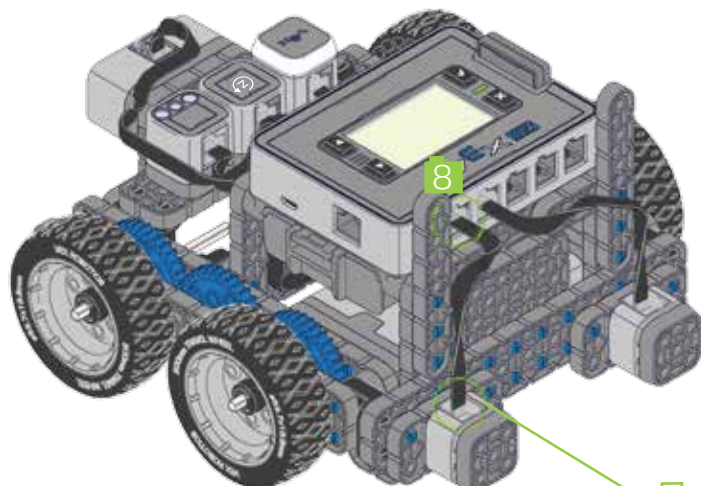
vexiq.com/clawbotiq/114

115



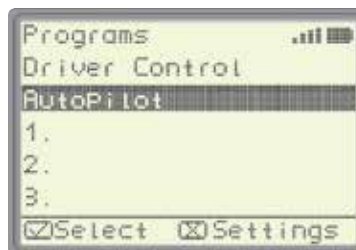
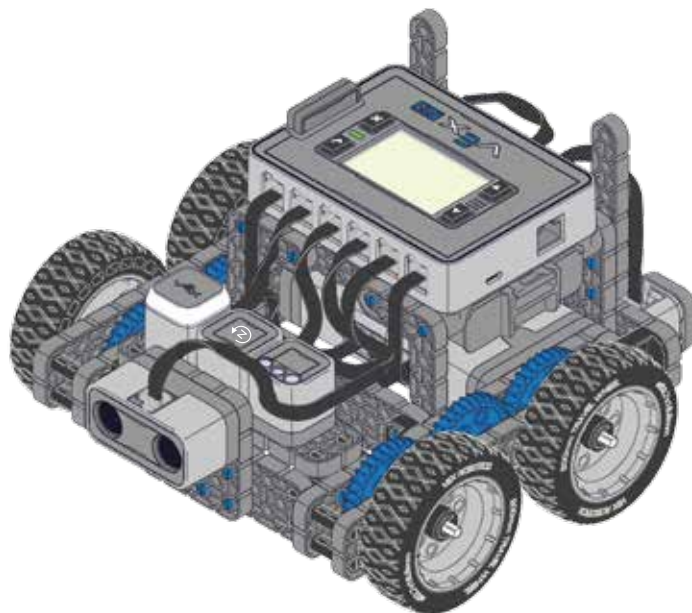
vexiq.com/clawbotiq/115

116



vexiq.com/clawbotiq/116

228-3428-750-中文说明书-Rev1



查看自驾编程信息, 请查看:



6.2



# Build Instructions

## 搭建说明书

Ages 8+

适用年龄：8岁以上

228-3428-750

Custom manufactured in China for Innovation First Trading SARL. Distributed in the U.S.A. by VEX Robotics, Inc., 1519 Interstate 30 West, Greenville, Texas 75402, U.S.A. Distributed in Europe by Innovation First Trading SARL, 21b rue Gabriel Lippmann, L-5365 Munsbach, Luxembourg +352 27 86 04 87. Distributed in Canada by / Distribué au Canada par / Innovation First Trading, Inc., 1519 Interstate 30 West, Greenville, Texas 75402, U.S.A.

本产品仅作为VEX IQ系统的一部分使用。

This product is solely intended to be used as part of the VEX IQ system.



[www.vexiq.com](http://www.vexiq.com)

3428



8 07648 03428 8