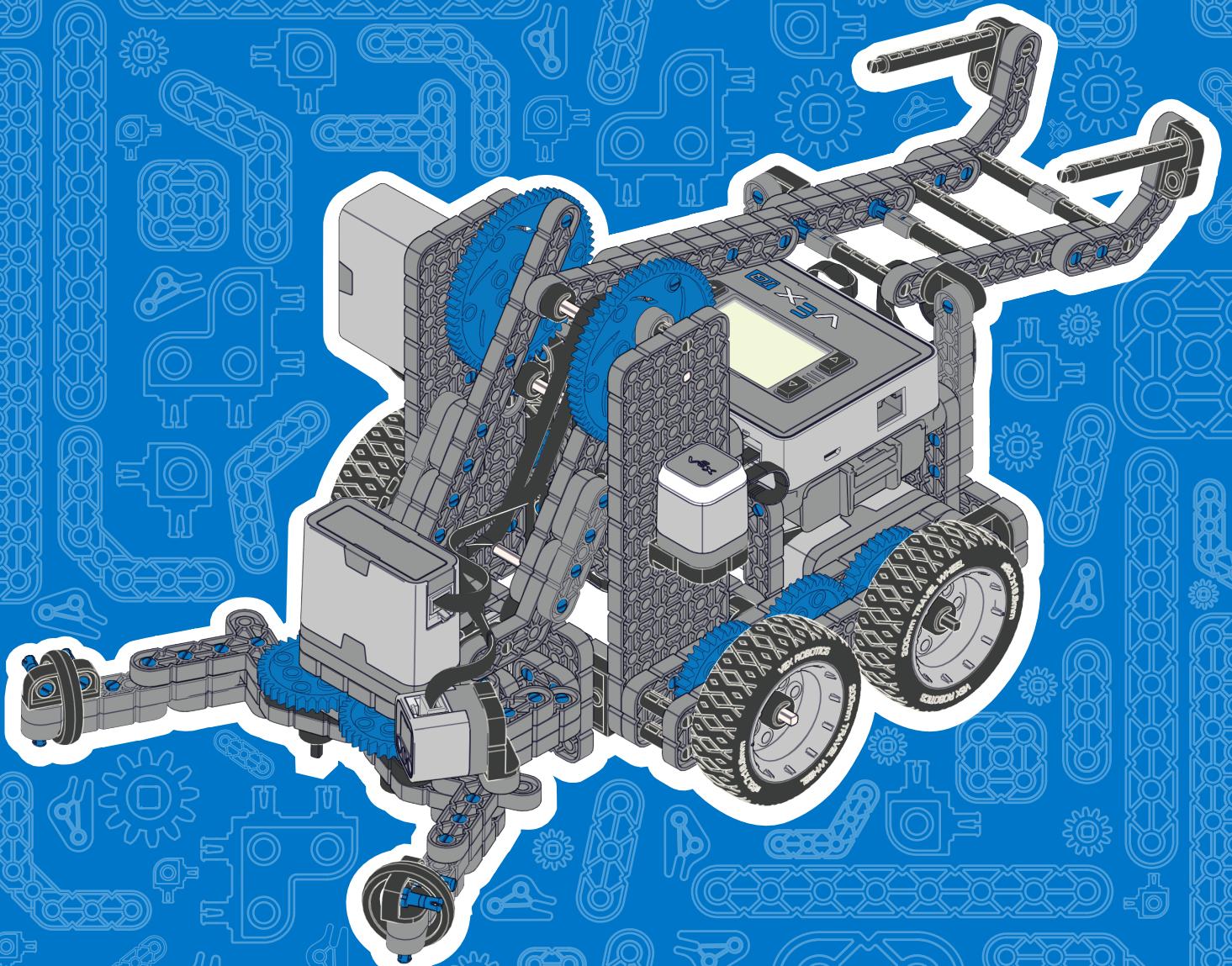


VEX IQ

Build Instructions Instructions de Construction

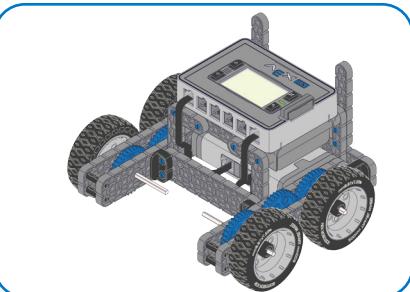


Includes plans for
all four robots | Inclus les plans
pour les quatre
robots

Table of Contents

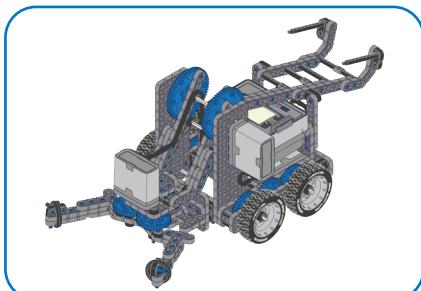
Table des Matières

i	VEX IQ Assembly Tips Conseils d'Assemblage VEX IQ.....	3
1	Standard Drive Base Base Mobile Standard.....	4



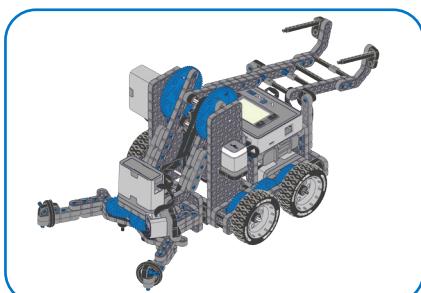
Build Steps 1-19
Étapes de Construction

2	Clawbot IQ.....	10
---	-----------------	----



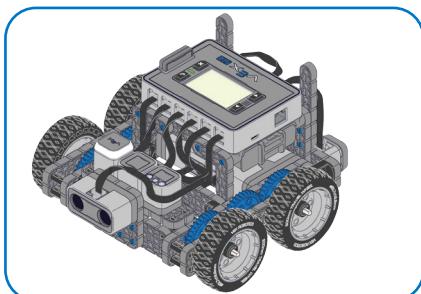
Build Steps 20-87
Étapes de Construction

3	Clawbot IQ with Sensors Clawbot IQ avec Capteurs.....	28
---	--	----



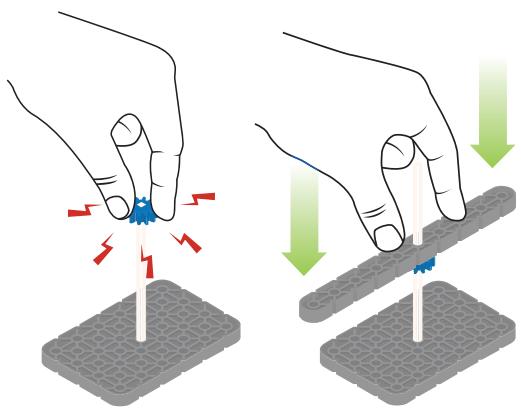
Build Steps 88-101
Étapes de Construction

4	Autopilot Instructions Instruction pour l'Autopilote.....	32
---	--	----

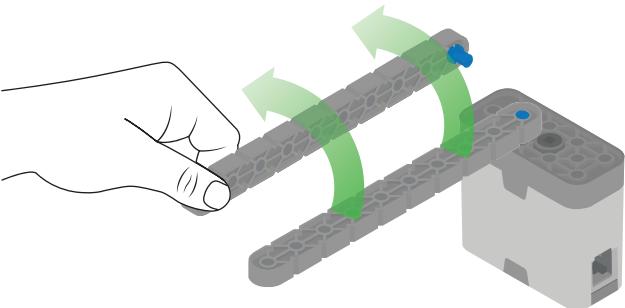


Build Steps 102-117
Étapes de Construction

VEX IQ Assembly Tips: Conseils d'Assemblage VEX IQ:

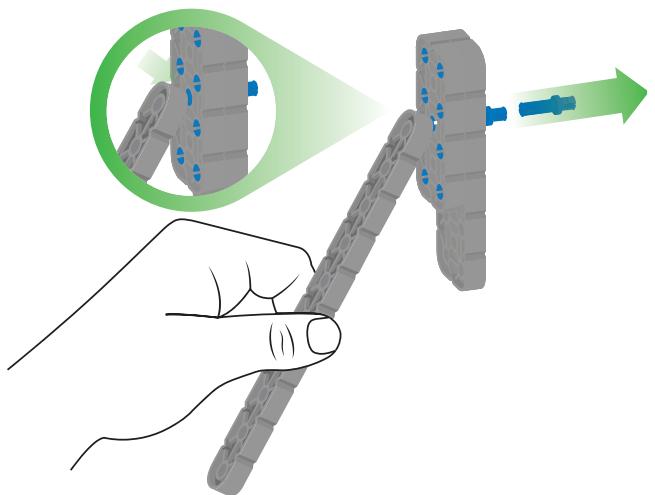


Use a 1x Beam for extra leverage when mounting small VEX IQ elements on shafts.
Utilisez une poutre pour aider à installer un petit élément VEX IQ sur un axe.

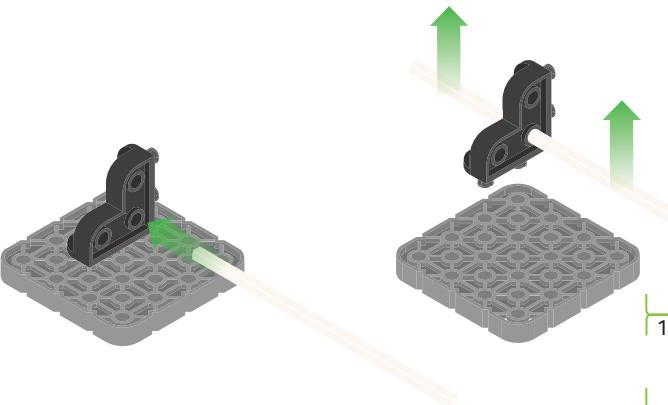


Connector Pins can be smoothly removed from Smart Motors, Sensors, or Robot Brains using a 1x Beam. Put the 1x Beam onto the pin and twist the Beam while pulling outward.

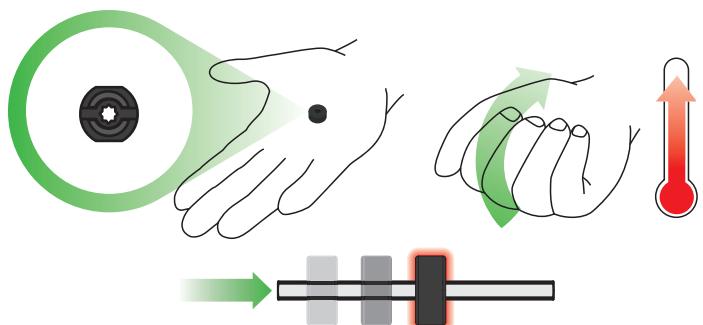
Les connecteurs peuvent être facilement retirés des moteurs Smart, Capteurs, ou Cerveau du robot en utilisant une poutre. Placer la poutre sur le connecteur et tourner la poutre en tirant vers l'extérieur.



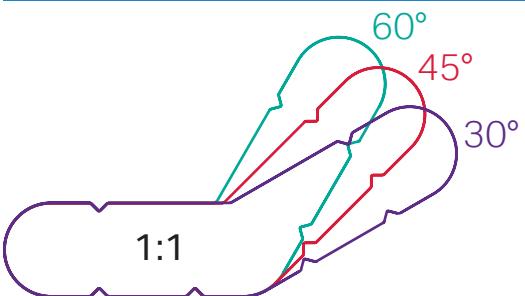
Quickly remove Connector Pins by pressing a VEX IQ Beam against the back of the Pin and pulling it out.
Poussez doucement le connecteur avec une poutre VEX IQ à l'arrière du connecteur pour le libérer.



Easily remove Corner Connectors by placing a metal shaft through one of the holes and pulling outward.
Retirez facilement un connecteur d'angle en plaçant un axe dans un des trous et en tirant vers l'extérieur.

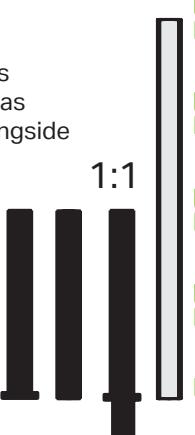


Rubber Shaft Collars become softer and easier to install if they are warmed by holding them in your hand for 15-30 seconds.
Les butées en caoutchouc deviennent plus souple et plus facile à installer si elles sont réchauffées en les tenant dans votre main pendant 15-30 secondes.



The best way to measure an Angle Beam is to compare it against known angles (such as above). To measure Shaft length, set it alongside a VEX IQ Beam and count the notches.

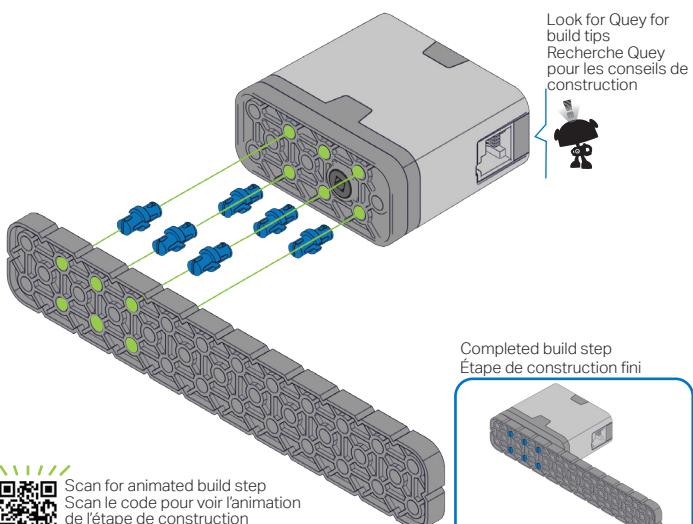
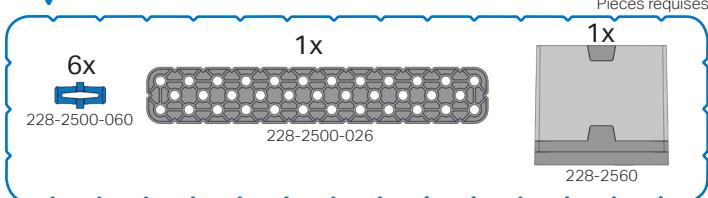
La meilleure façon de mesurer un angle de faisceau est de comparer contre angles connus (comme ci-dessus). Pour mesurer la longueur de l'arbre, elle a mis à côté d'un VEXIQ Poutre et compter les encoches.



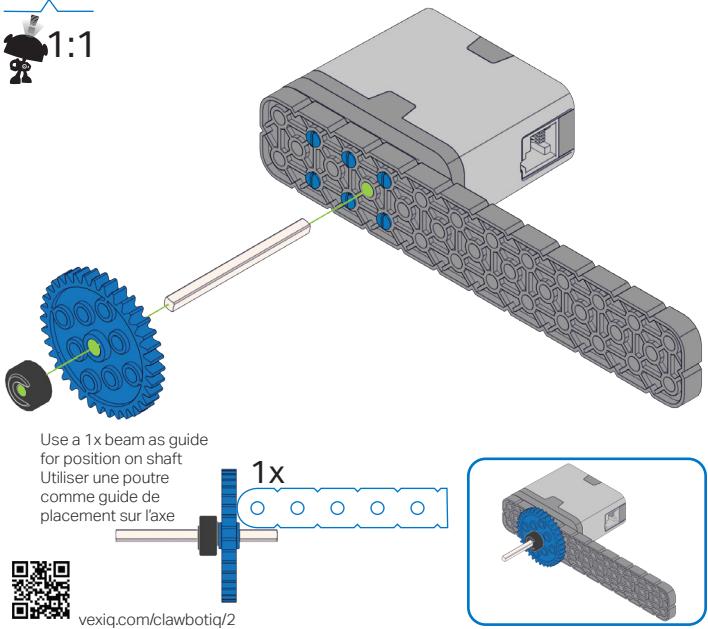
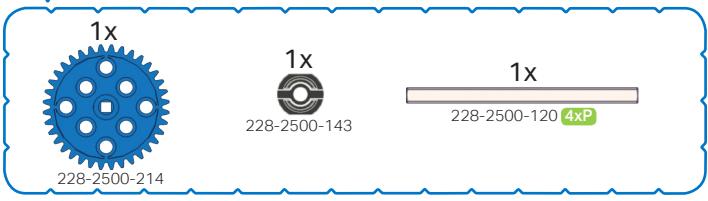
Standard Drive Base

1 Base de Conduite Standard

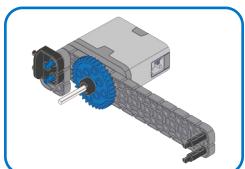
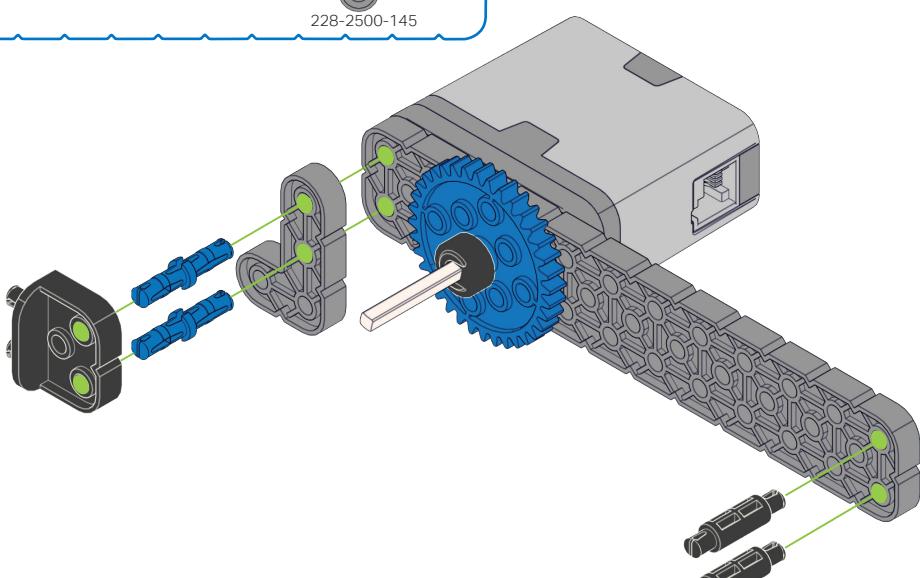
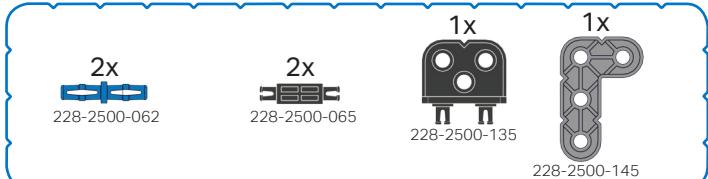
1



2

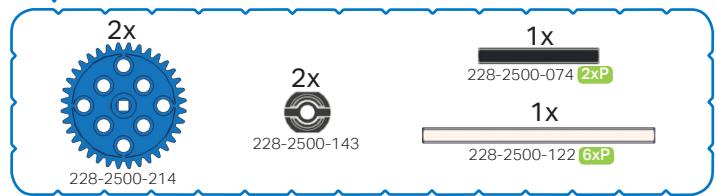


3

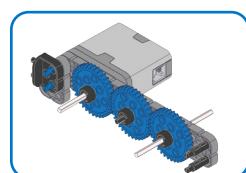
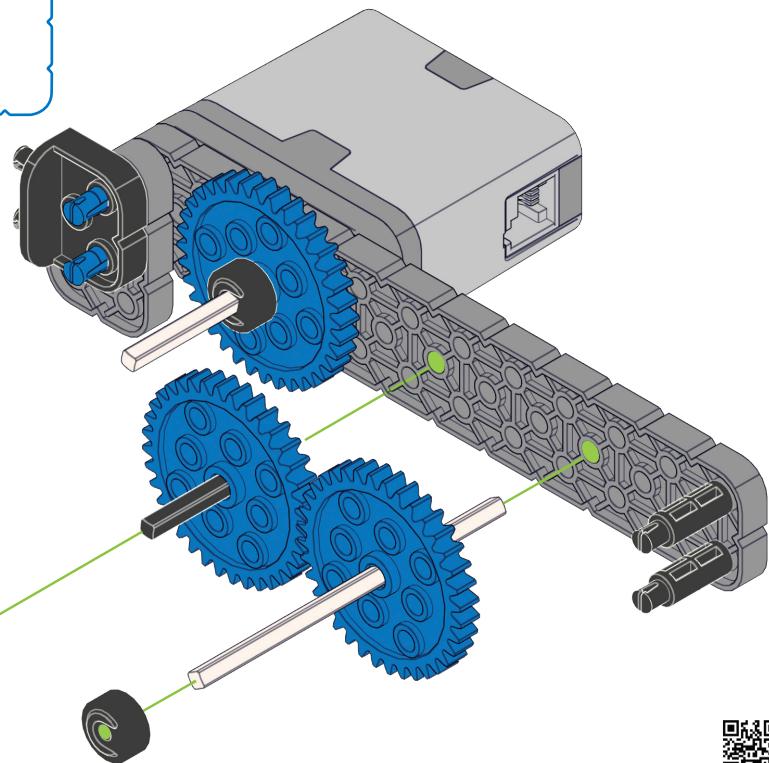
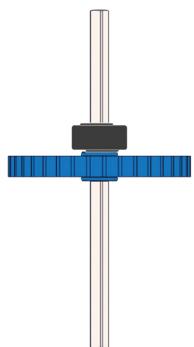


vexiq.com/clawbotiq/3

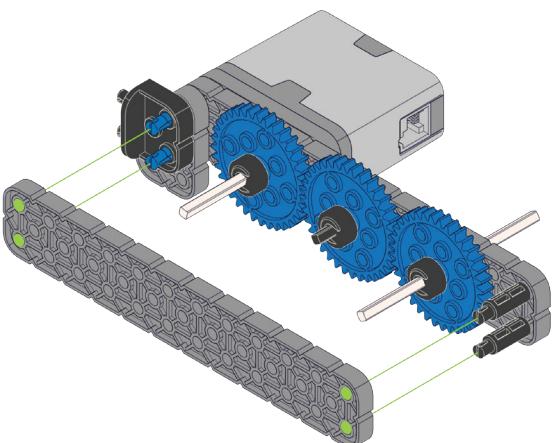
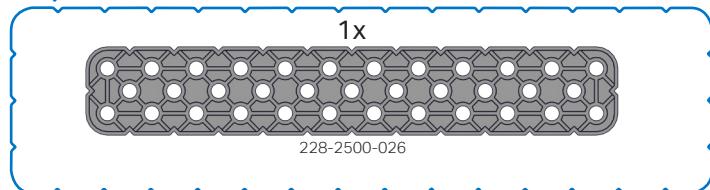
4



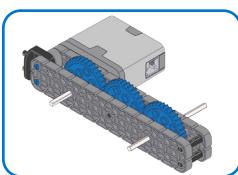
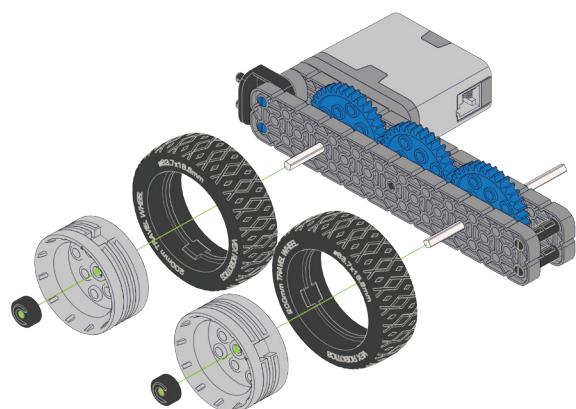
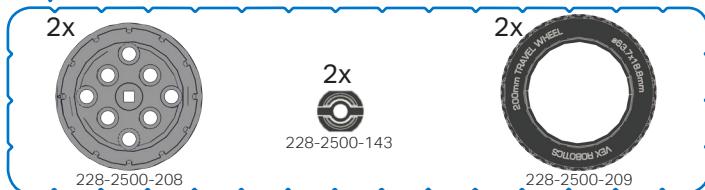
1:1

vexiq.com/clawbotiq/4

5

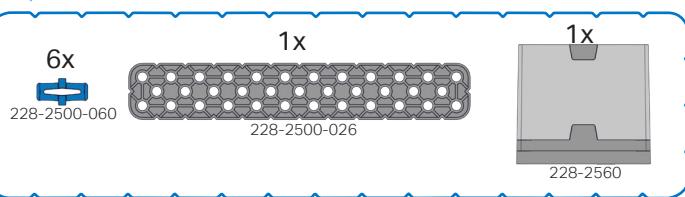
vexiq.com/clawbotiq/5

6

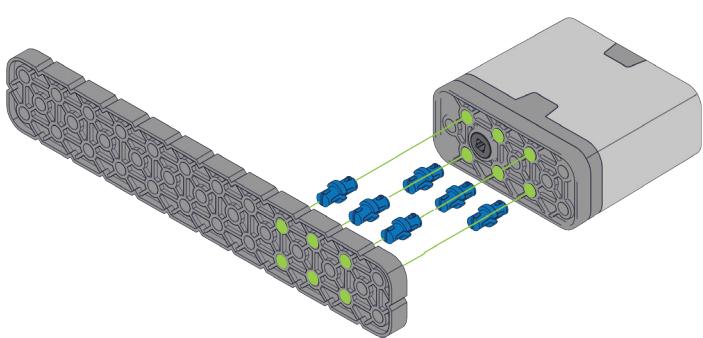
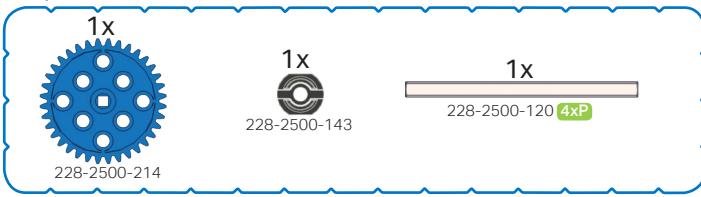
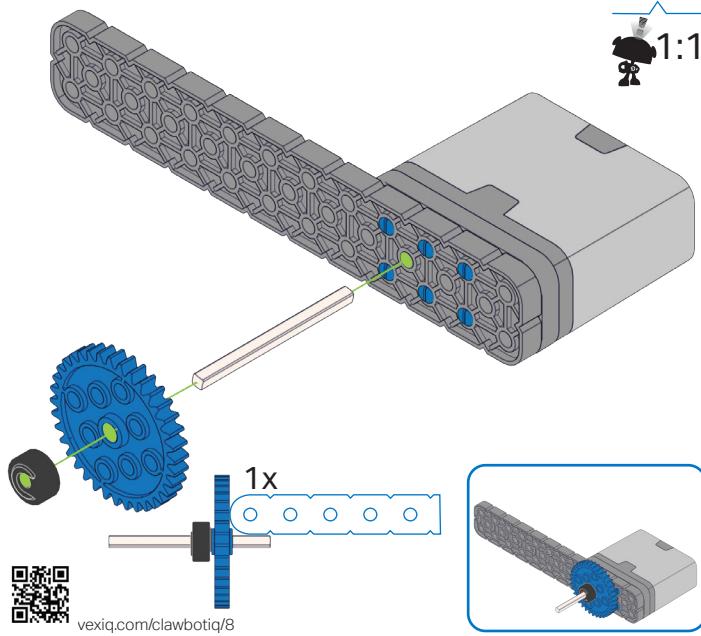
vexiq.com/clawbotiq/6

1

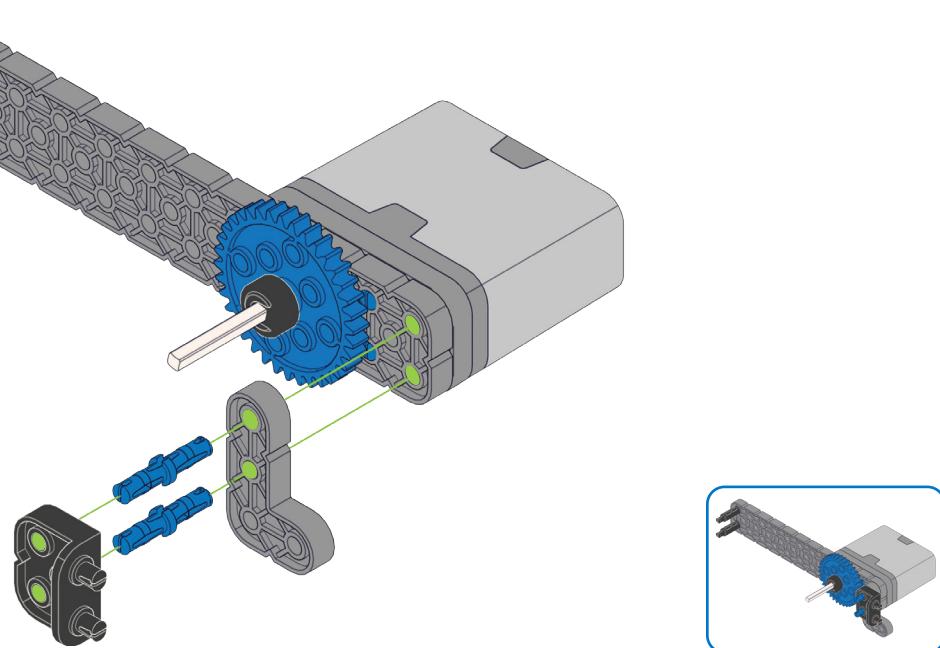
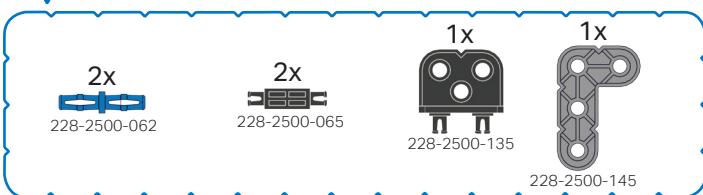
7



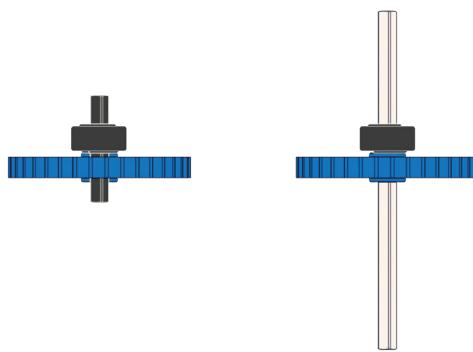
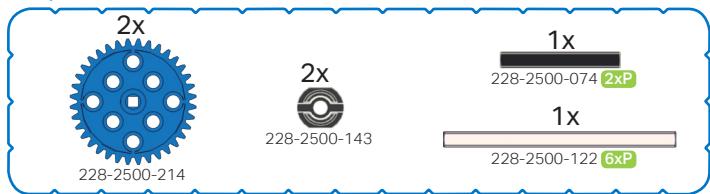
8

vexiq.com/clawbotiq/7vexiq.com/clawbotiq/8

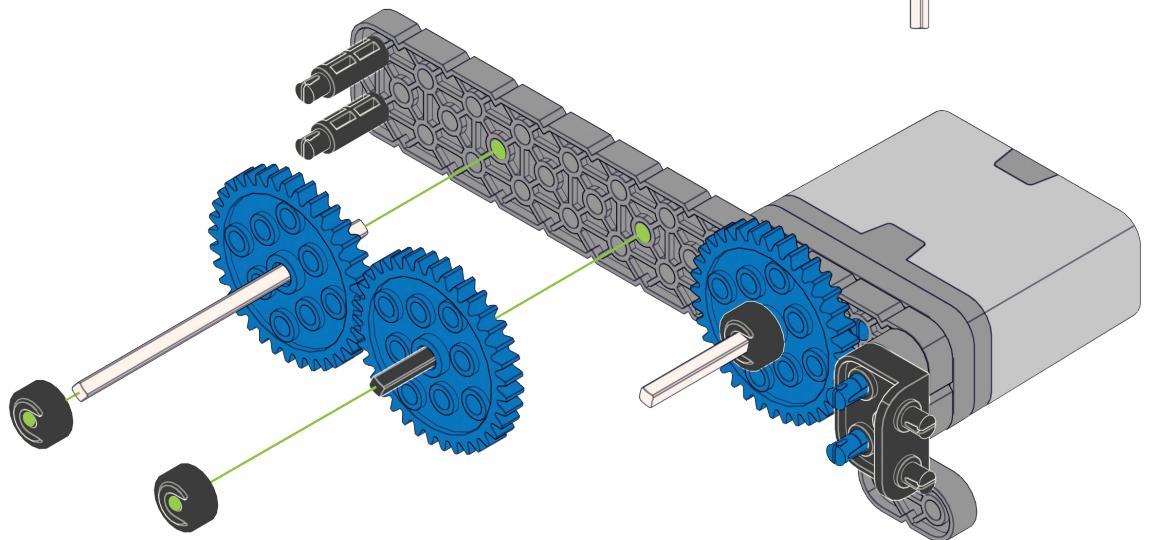
9

vexiq.com/clawbotiq/9

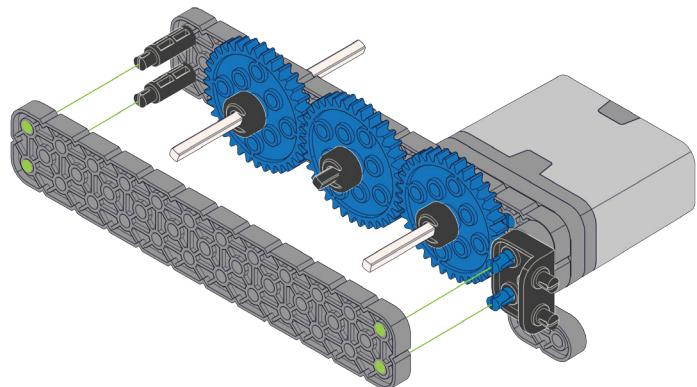
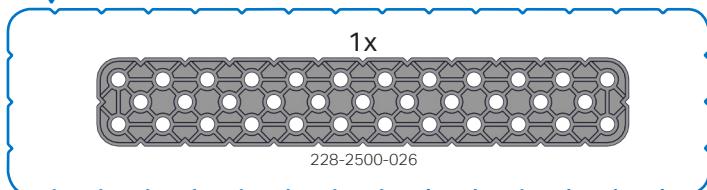
10



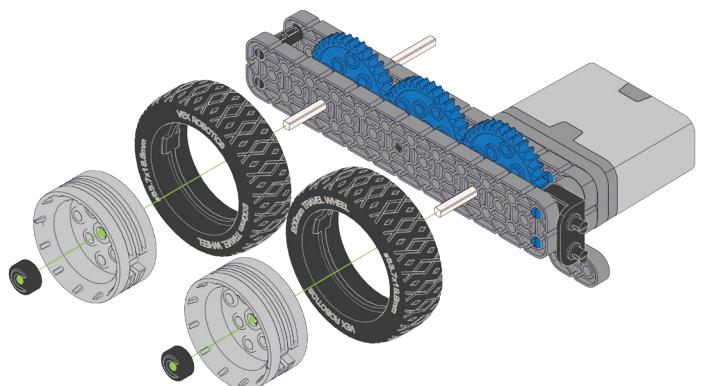
1:1

vexiq.com/clawbotiq/10

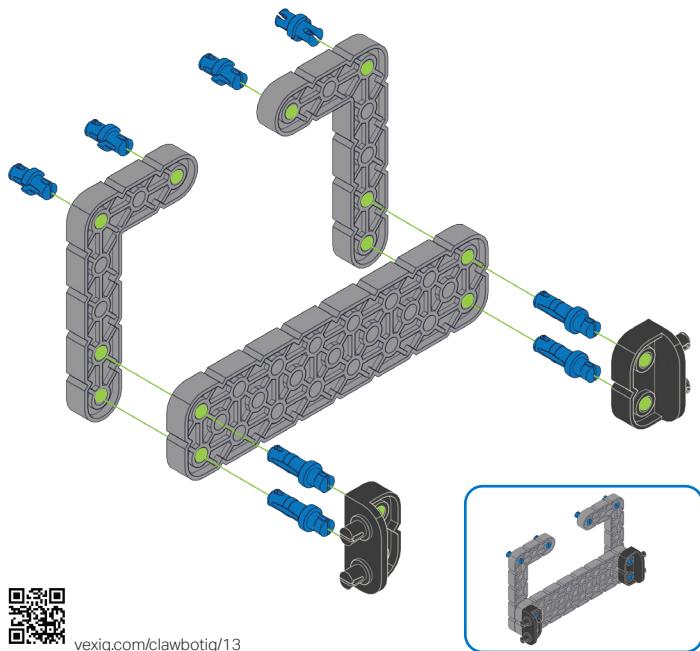
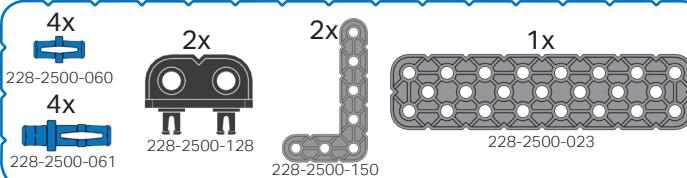
11

vexiq.com/clawbotiq/11

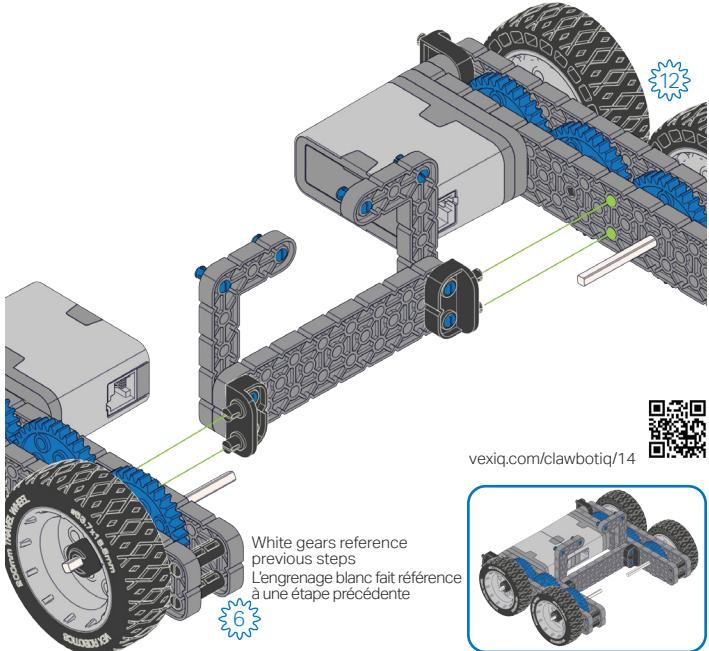
12

vexiq.com/clawbotiq/12

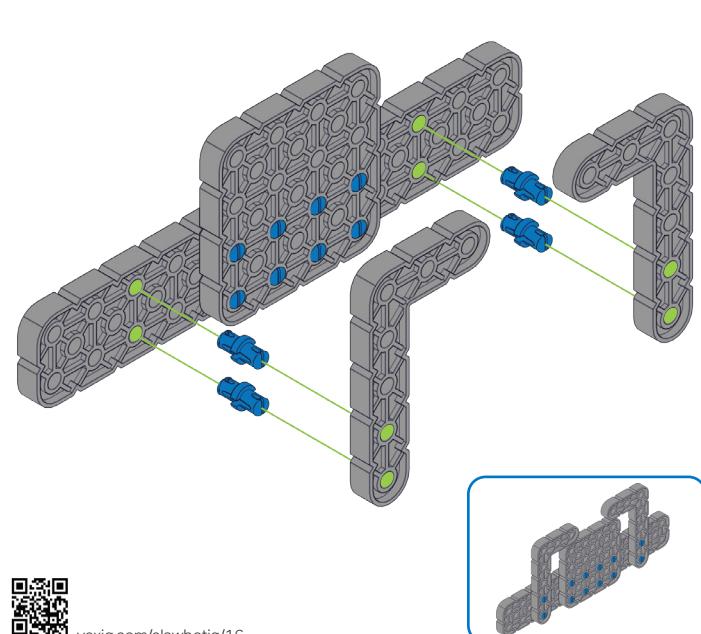
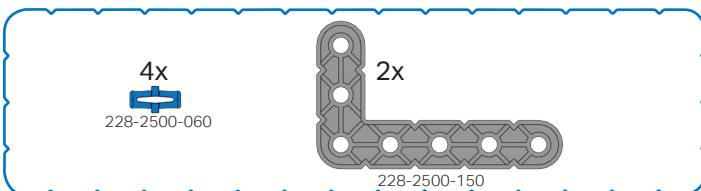
13



14



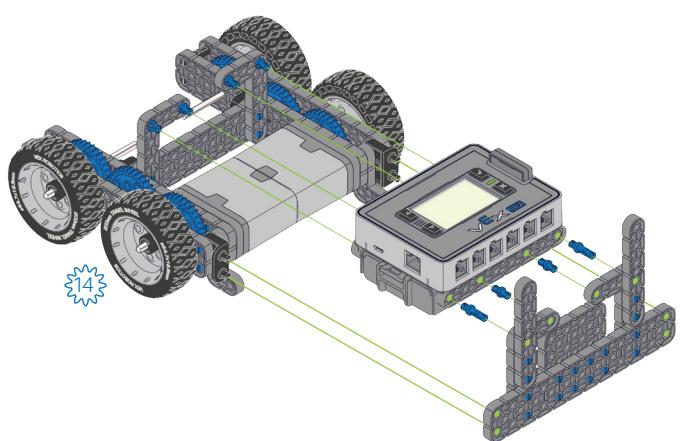
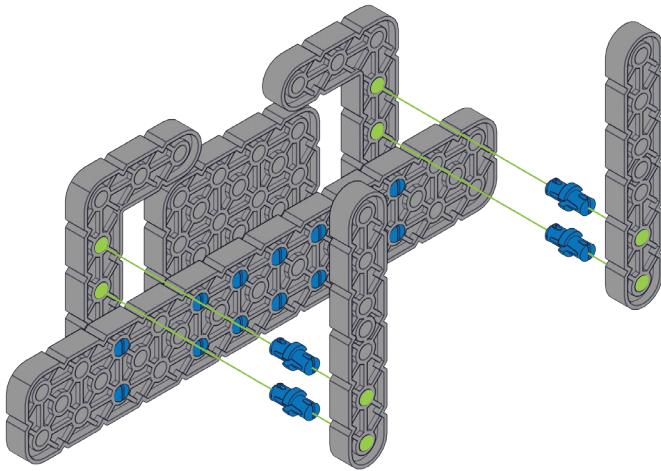
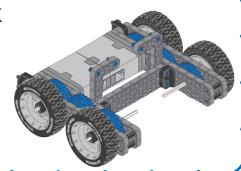
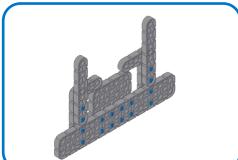
15



17

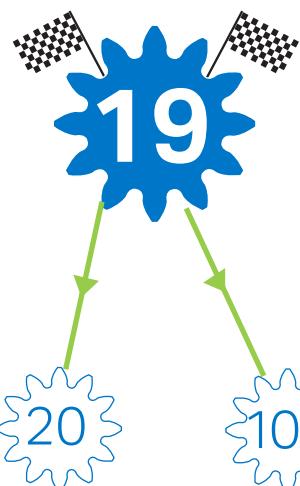
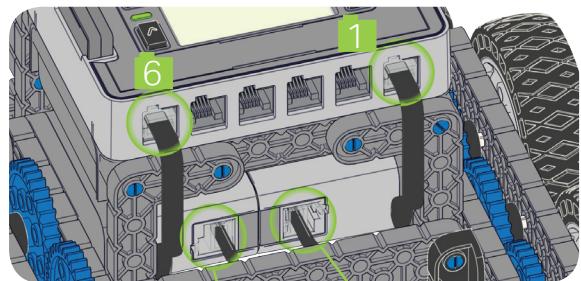


18

vexiq.com/clawbotiq/17vexiq.com/clawbotiq/18

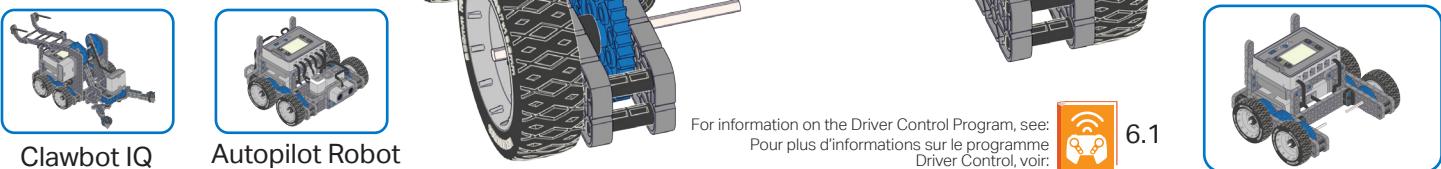
19

2x



Clawbot IQ

Autopilot Robot



For information on the Driver Control Program, see:
Pour plus d'informations sur le programme
Driver Control, voir:

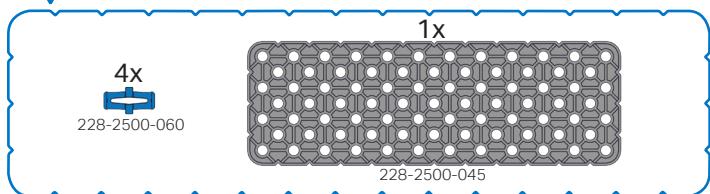


6.1

vexiq.com/clawbotiq/19

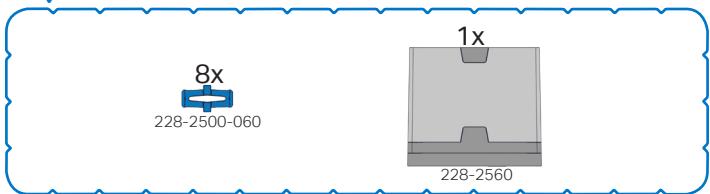
2 Clawbot IQ

20



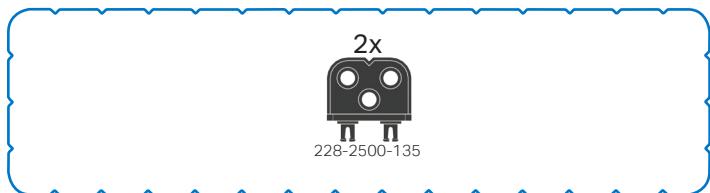
vexiq.com/clawbotiq/20

21



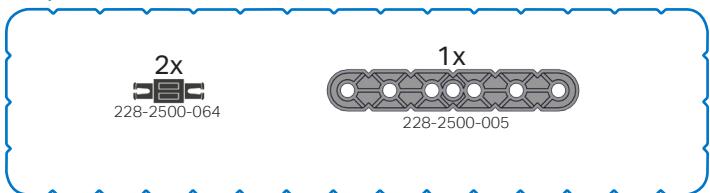
vexiq.com/clawbotiq/21

22



vexiq.com/clawbotiq/22

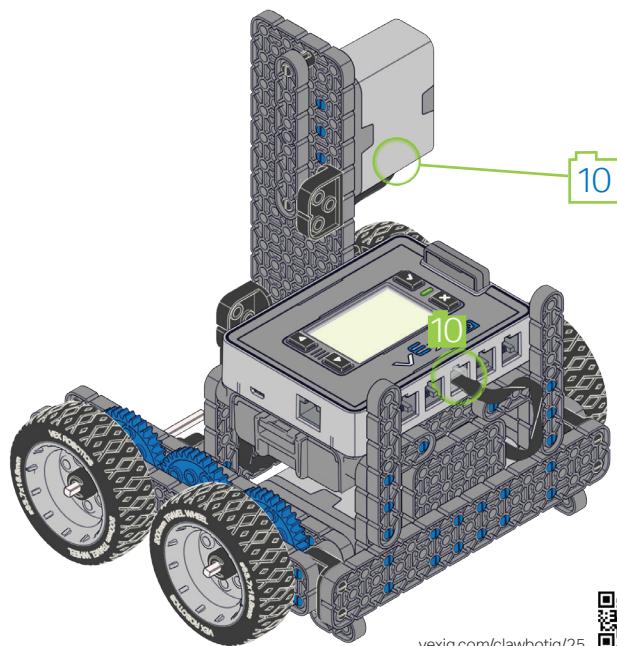
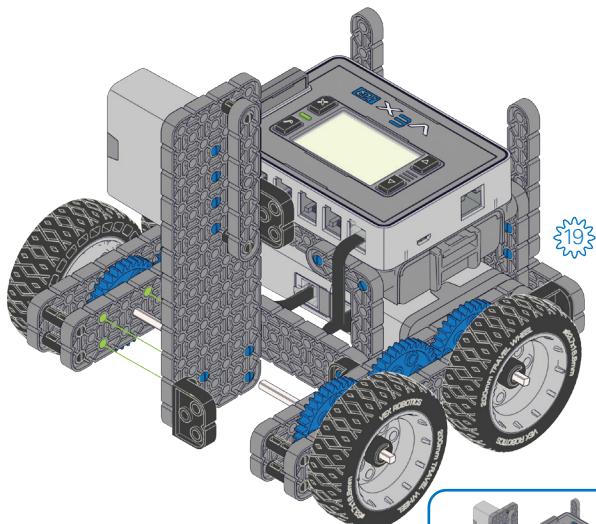
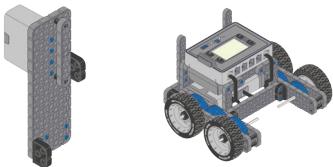
23



vexiq.com/clawbotiq/23

24

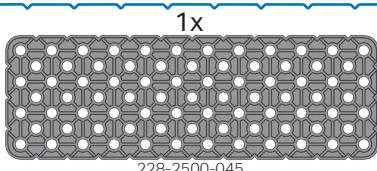
25



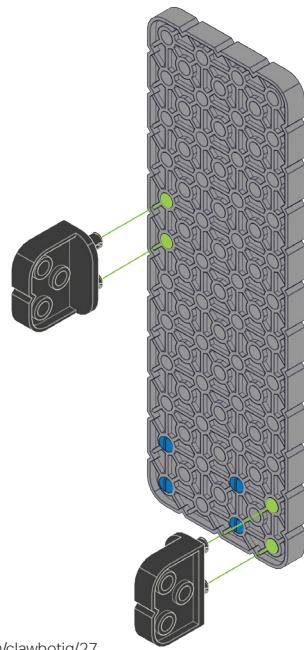
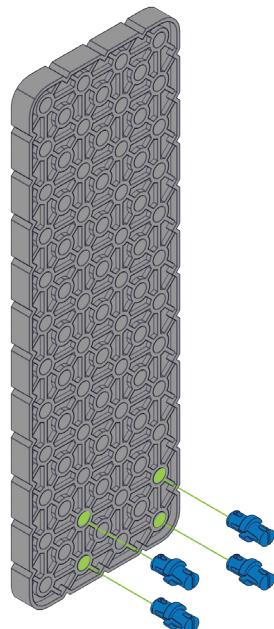
26

27

4x
228-2500-060



2x
228-2500-135



vexiq.com/clawbotiq/26



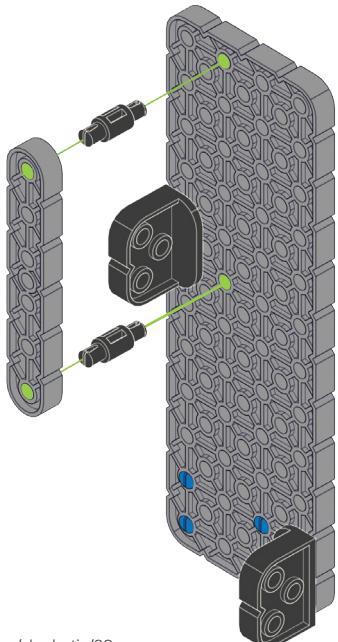
vexiq.com/clawbotiq/27

2

28

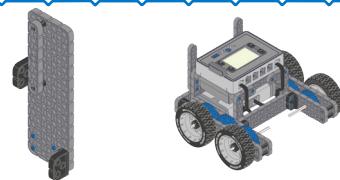
2x
228-2500-064

1x
228-2500-005



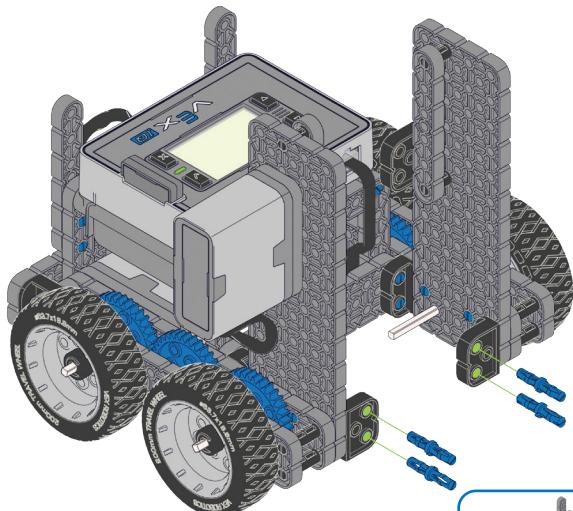
vexiq.com/clawbotiq/28

29



30

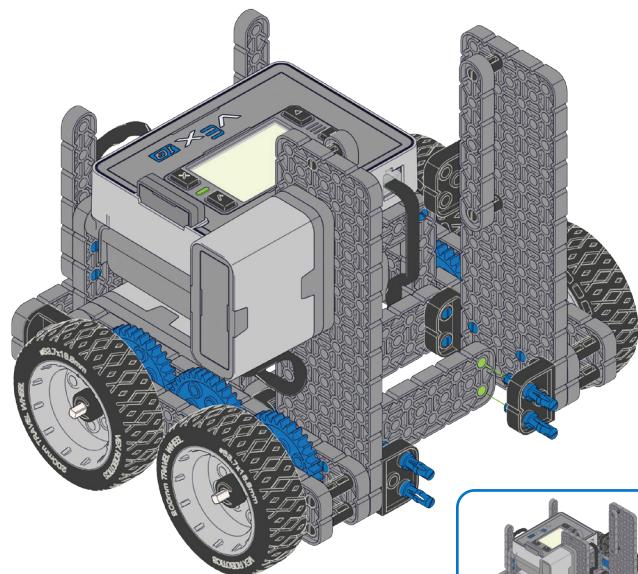
4x
228-2500-062



vexiq.com/clawbotiq/30

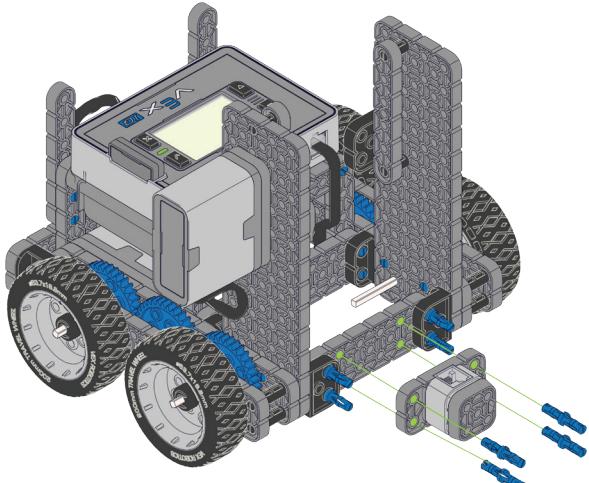
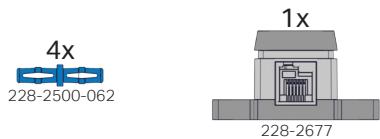
31

1x
228-2500-021

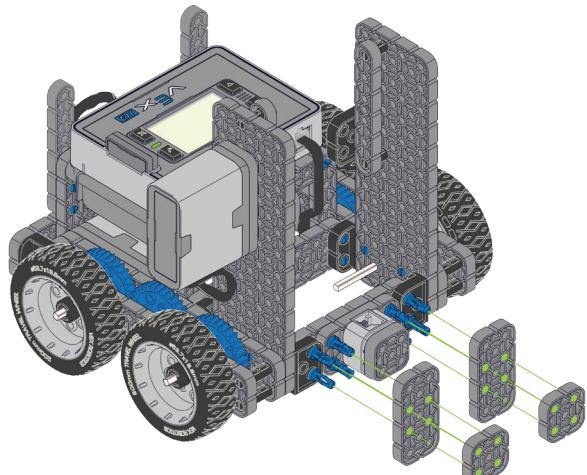
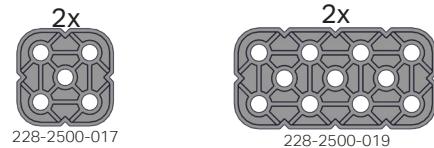


vexiq.com/clawbotiq/31

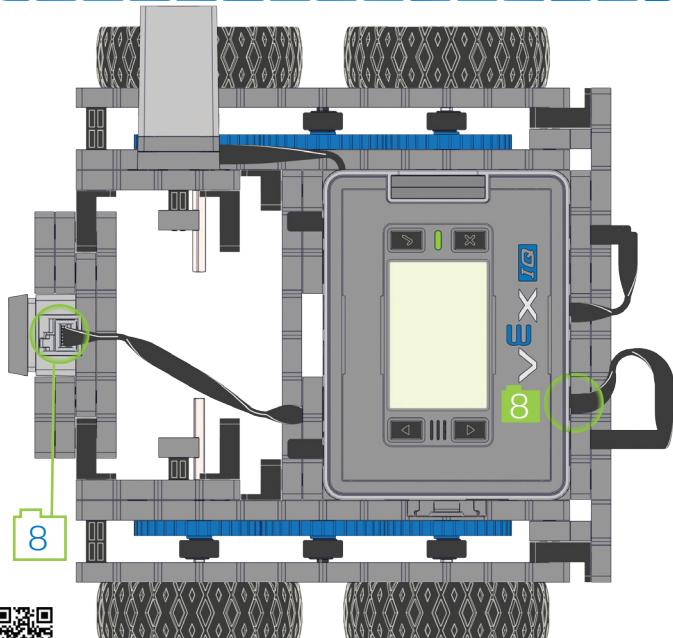
32

vexiq.com/clawbotiq/32

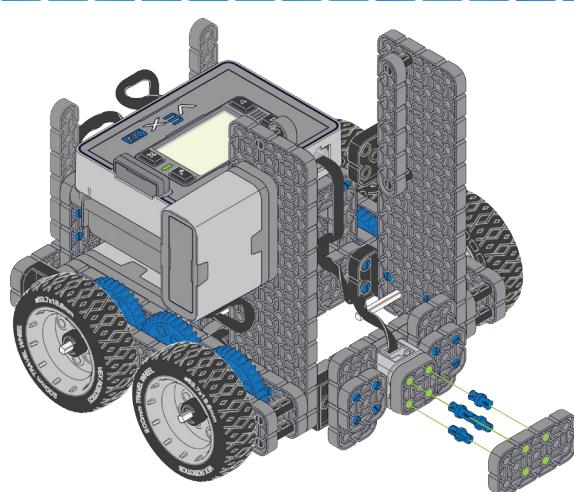
33

vexiq.com/clawbotiq/33

34

vexiq.com/clawbotiq/34

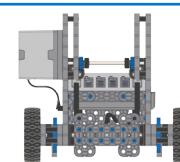
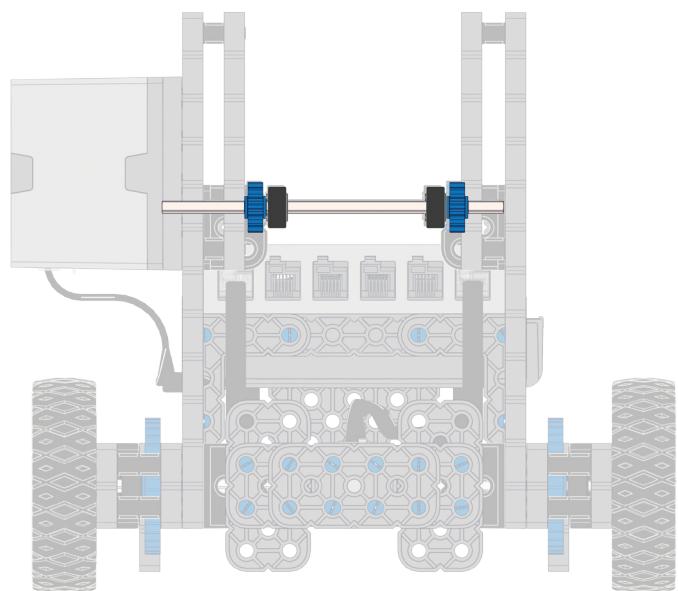
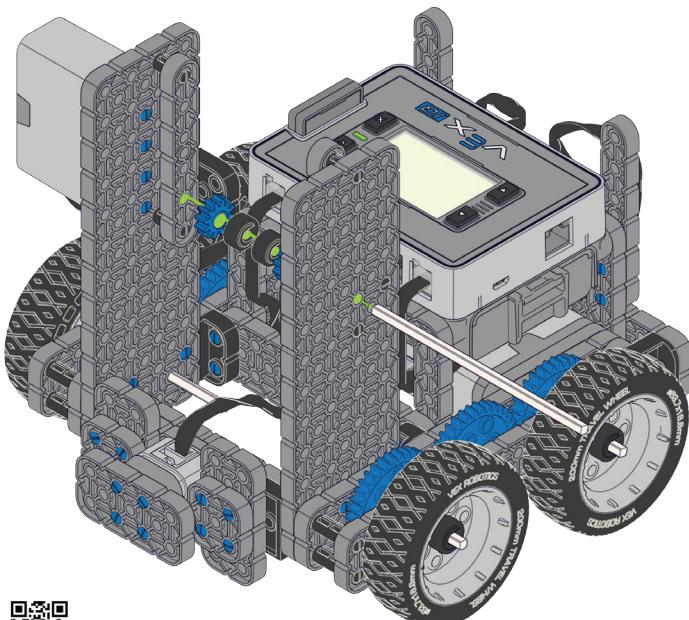
35

vexiq.com/clawbotiq/35

36

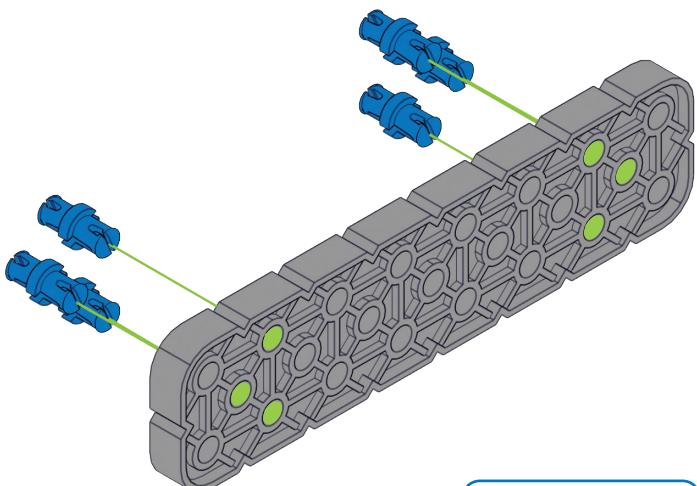
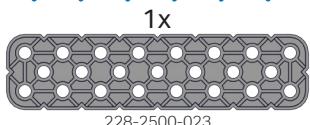


1x
228-2500-124 (8xP)

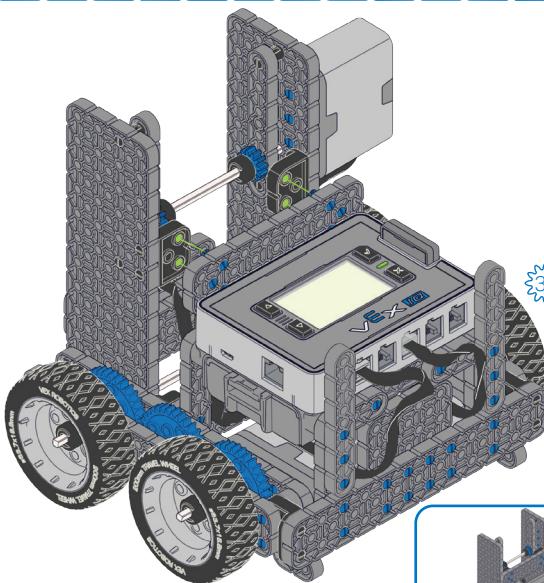
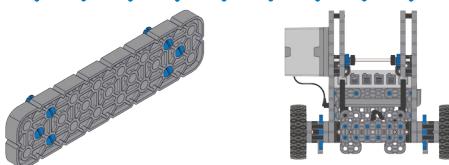


37

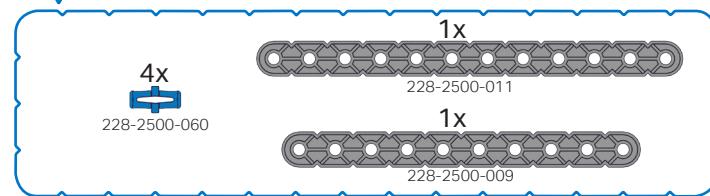
6x
228-2500-060



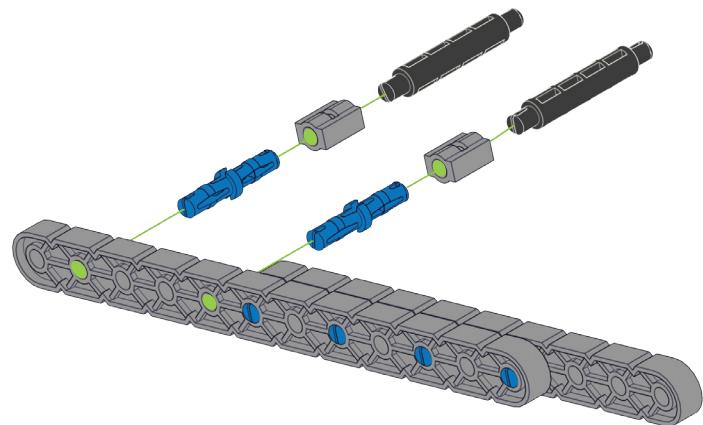
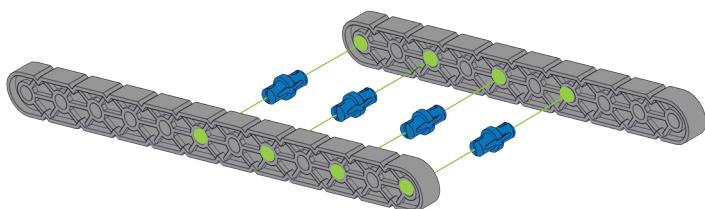
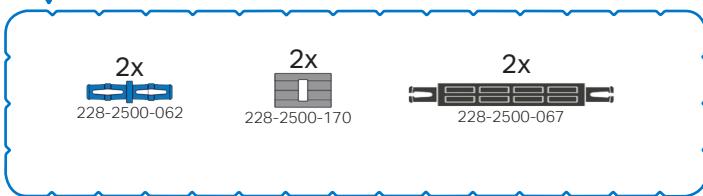
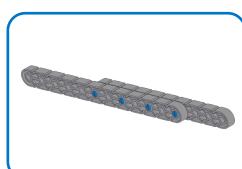
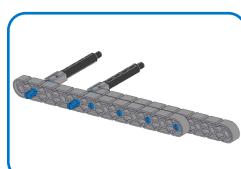
38

vexiq.com/clawbotiq/37vexiq.com/clawbotiq/38

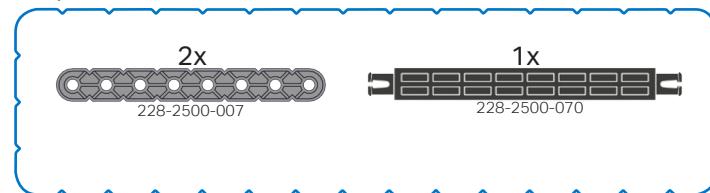
39



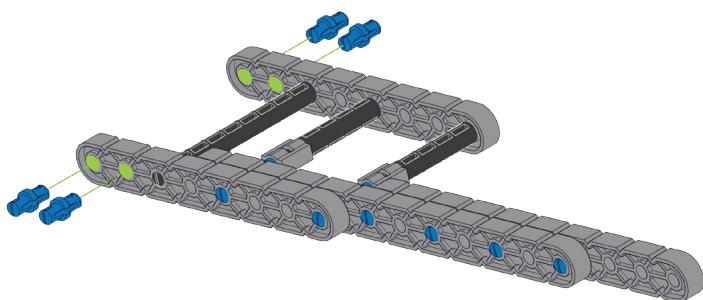
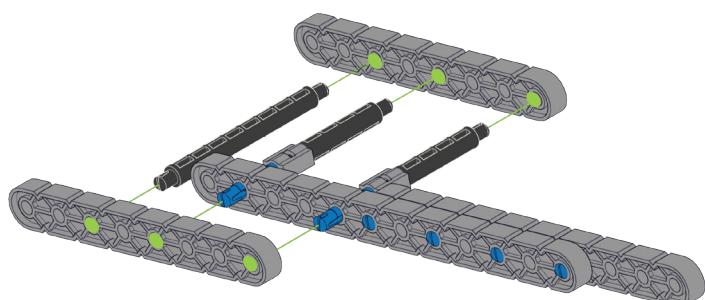
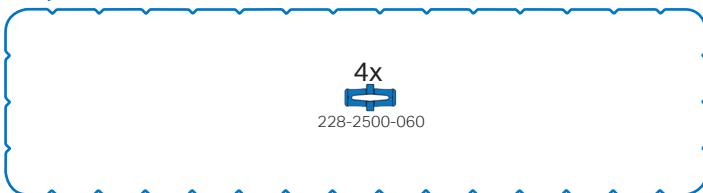
40

vexiq.com/clawbotiq/39vexiq.com/clawbotiq/40

41

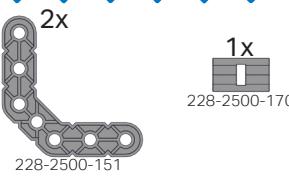


42

vexiq.com/clawbotiq/41vexiq.com/clawbotiq/42

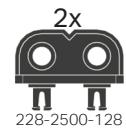
2

43



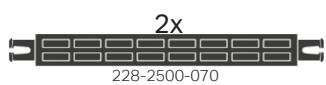
vexiq.com/clawbotiq/43

44



vexiq.com/clawbotiq/44

45



vexiq.com/clawbotiq/45

46

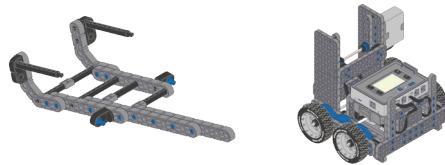
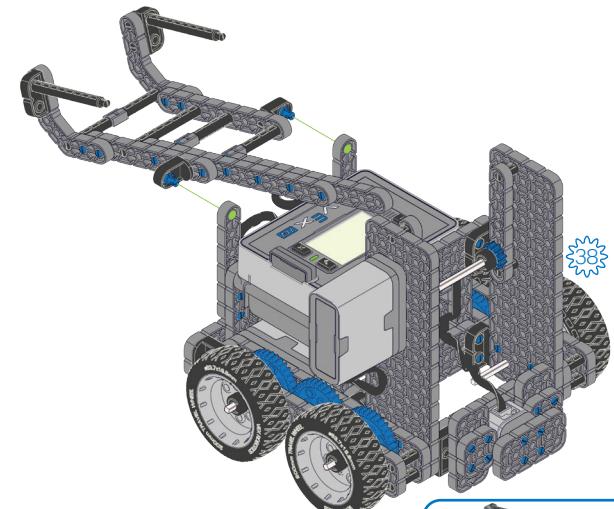


vexiq.com/clawbotiq/46

47

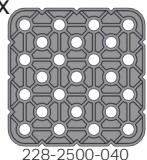
2x
228-2500-060

48


vexiq.com/clawbotiq/47

vexiq.com/clawbotiq/48

49

4x
228-2500-061

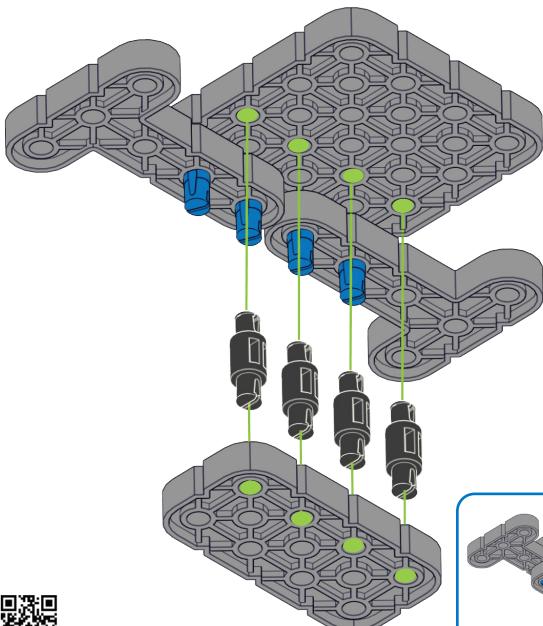
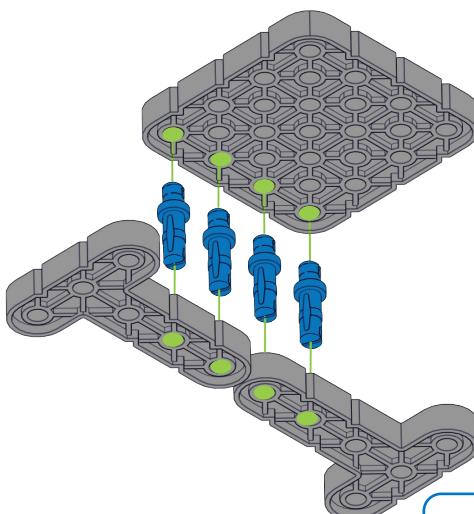
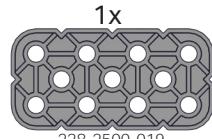


1x
228-2500-040

2x
228-2500-144

50

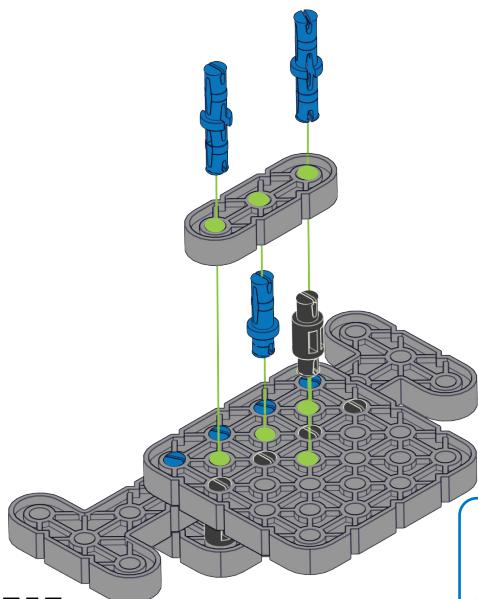
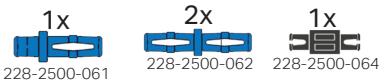
4x
228-2500-064


vexiq.com/clawbotiq/49

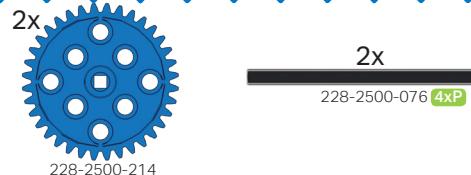
vexiq.com/clawbotiq/50

2

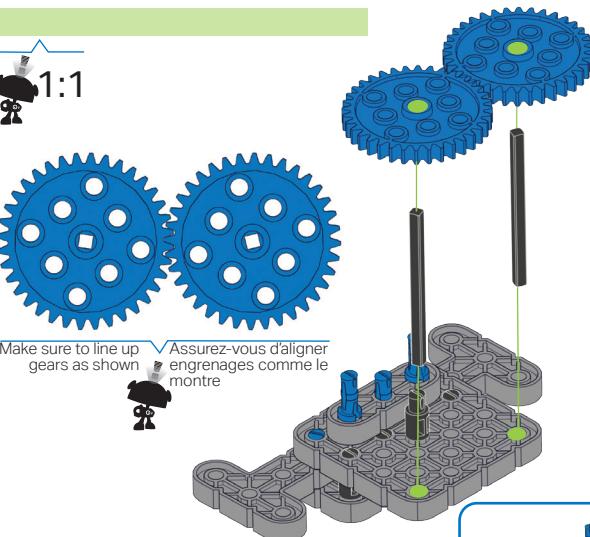
51


vexiq.com/clawbotiq/51

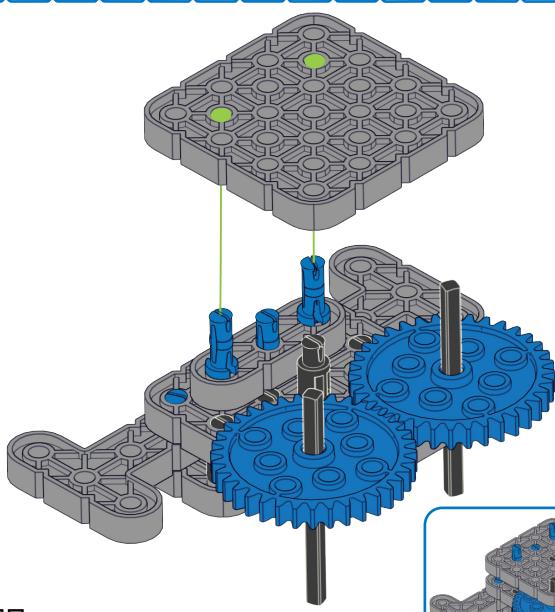
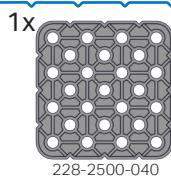
52



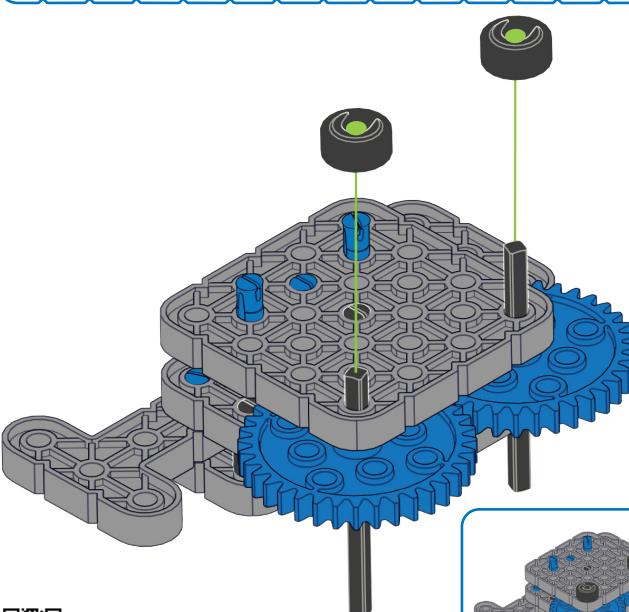
1:1


vexiq.com/clawbotiq/52

53

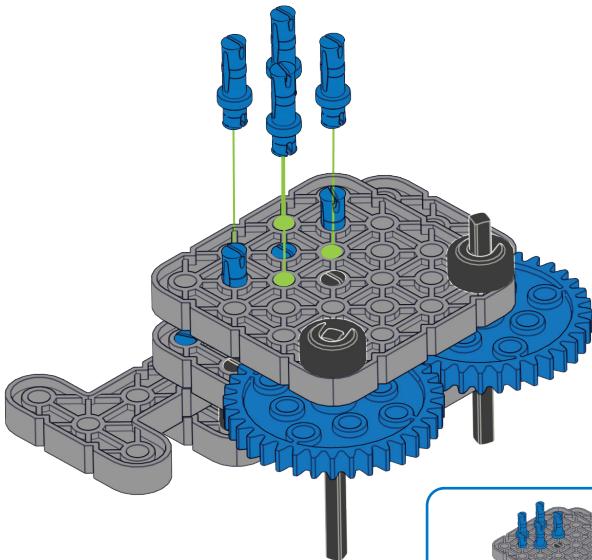

vexiq.com/clawbotiq/53

54


vexiq.com/clawbotiq/54

55

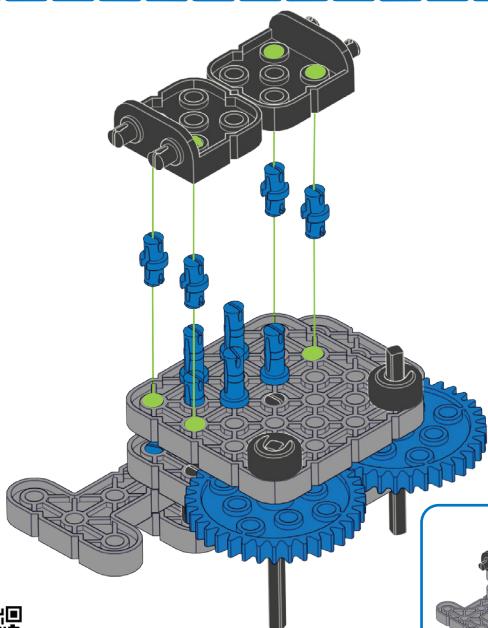
4x
228-2500-061


vexiq.com/clawbotiq/55

56

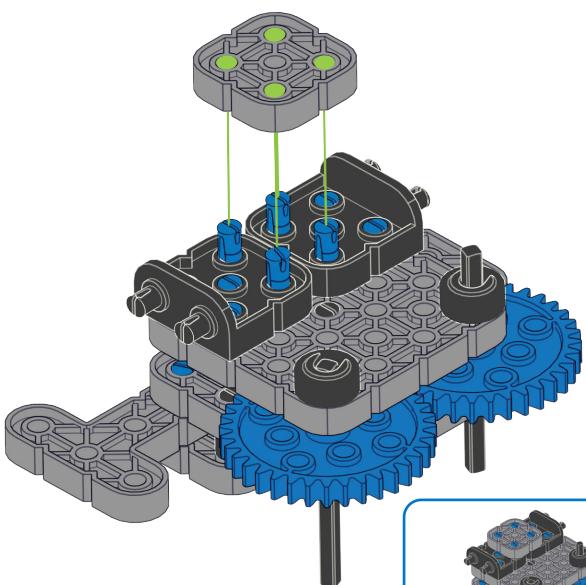
4x
228-2500-060

2x
228-2500-134


vexiq.com/clawbotiq/56

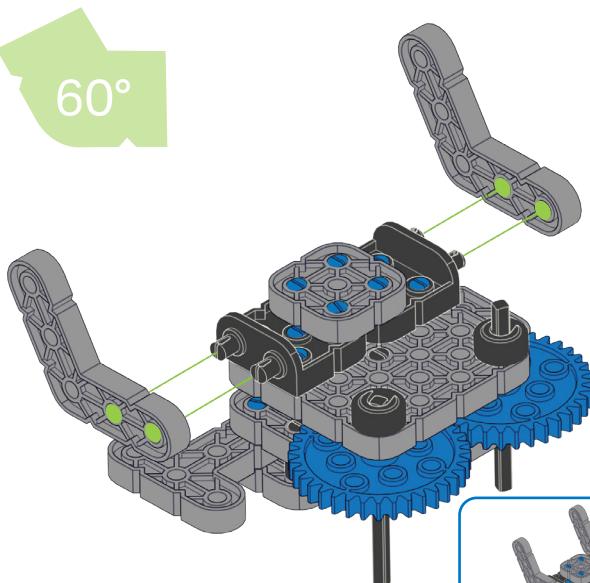
57

1x
228-2500-017


vexiq.com/clawbotiq/57

58

2x
228-2500-149 60°

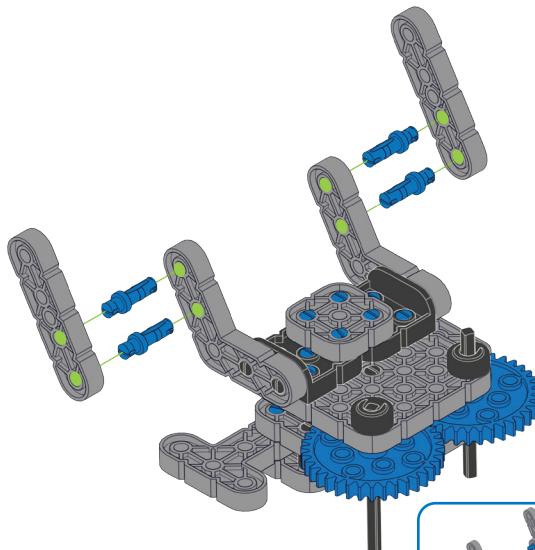

vexiq.com/clawbotiq/58

2

59

4x
228-2500-061

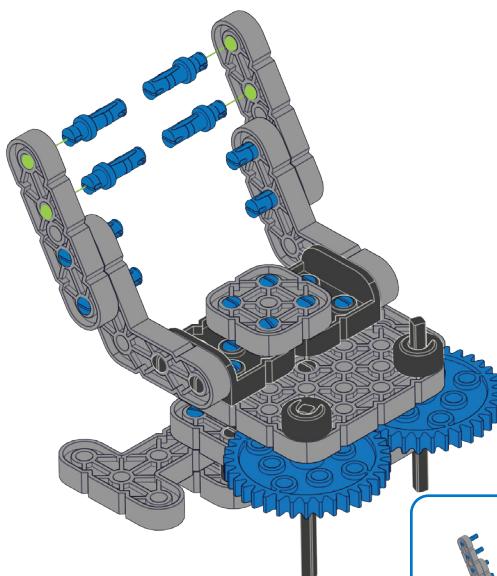
2x
228-2500-003



vexiq.com/clawbotiq/59

60

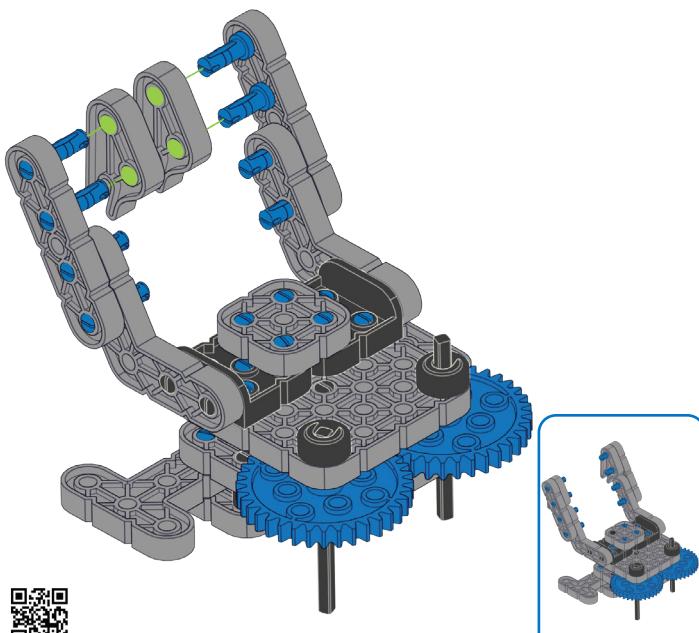
4x
228-2500-061



vexiq.com/clawbotiq/60

61

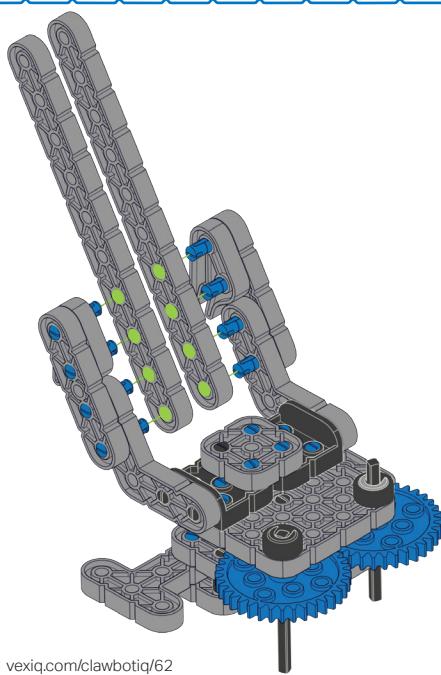
2x
228-2500-157



vexiq.com/clawbotiq/61

62

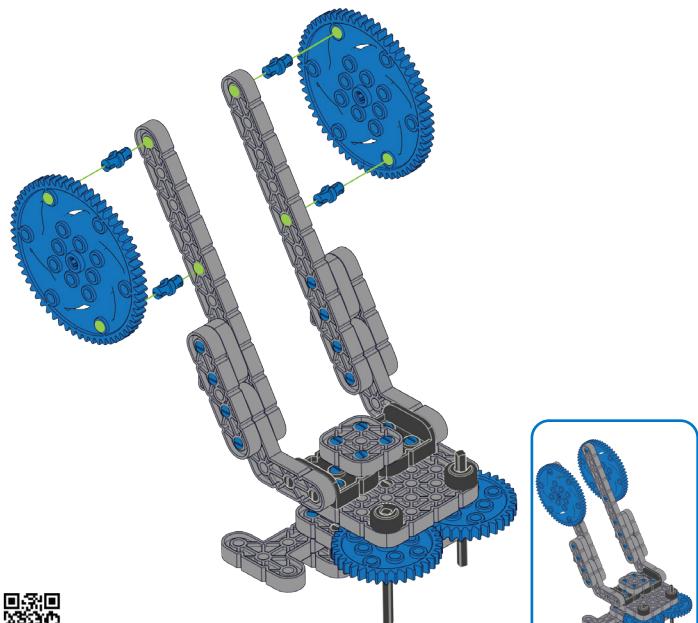
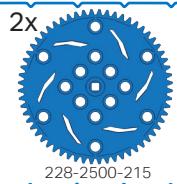
2x
228-2500-009



vexiq.com/clawbotiq/62

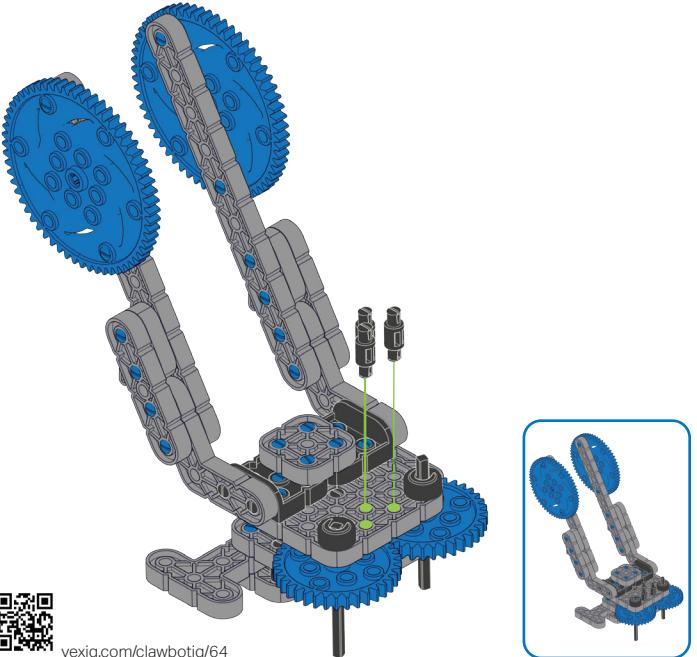
63

4x
228-2500-060



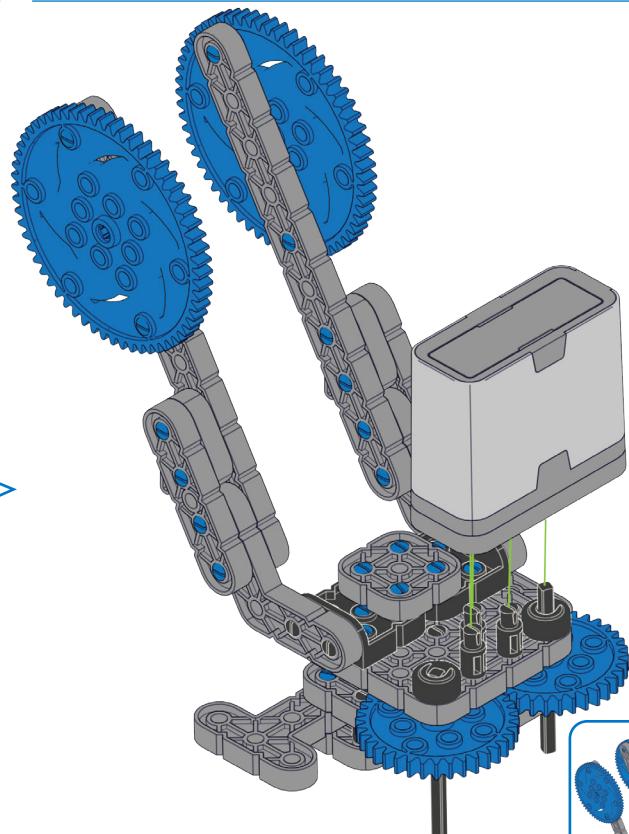
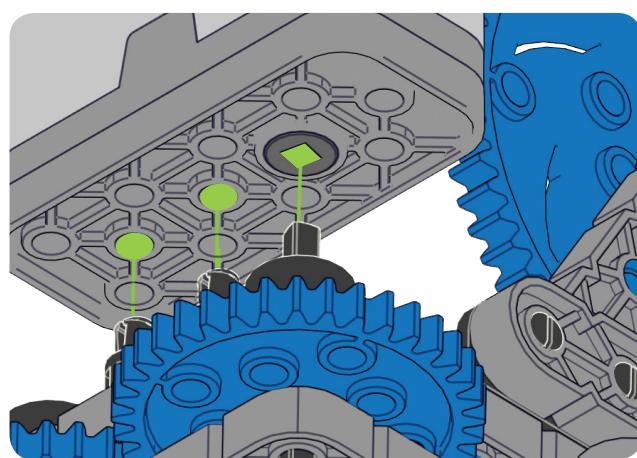
64

3x
228-2500-064

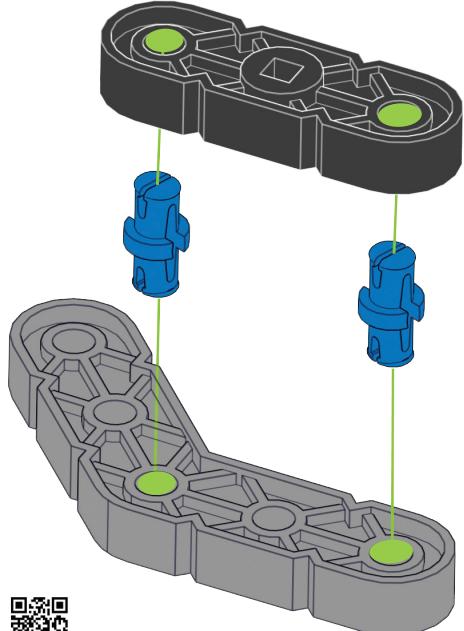
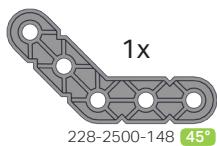


65

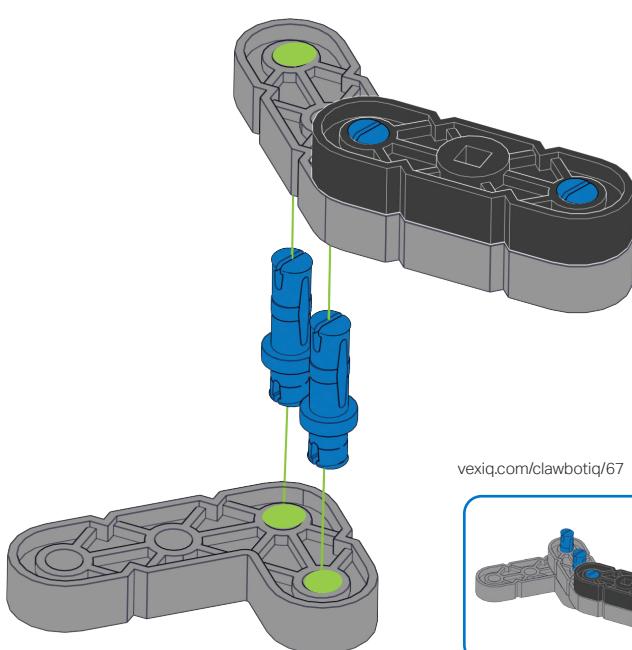
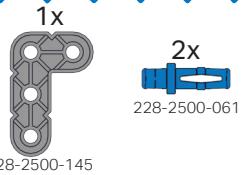
1x
228-2560



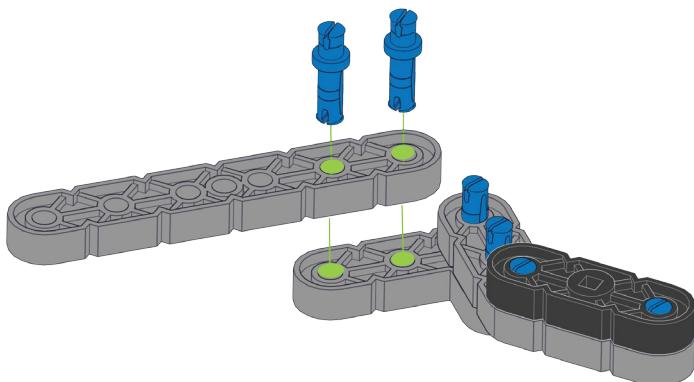
66



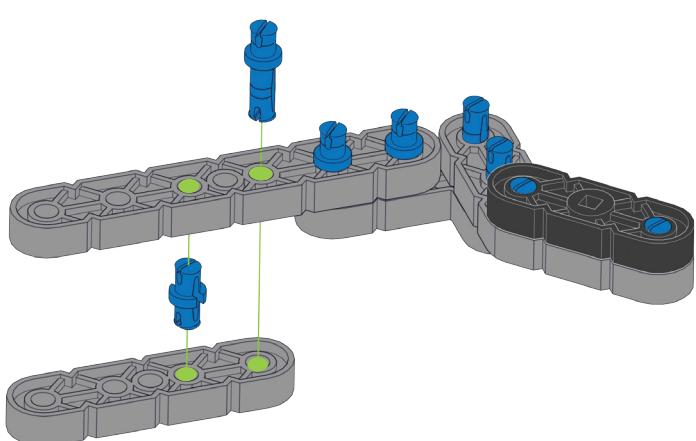
67



68



69

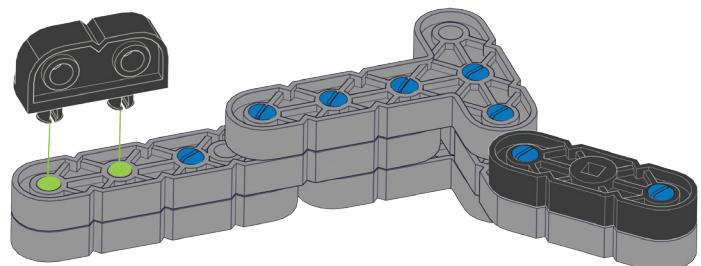
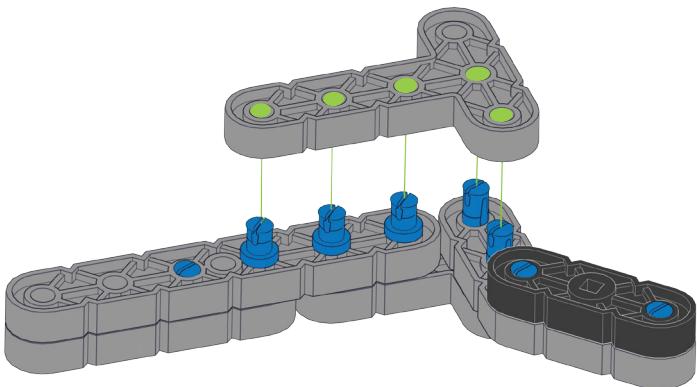
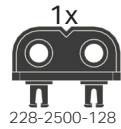
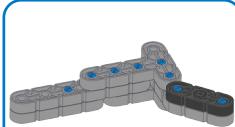


vexiq.com/clawbotiq/68

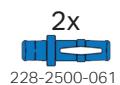
70



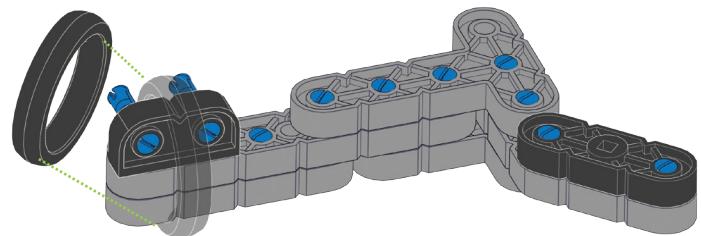
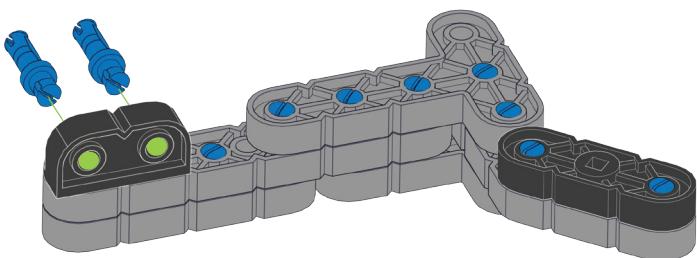
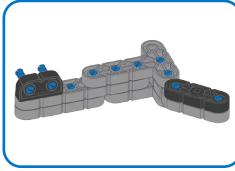
71


vexiq.com/clawbotiq/70

vexiq.com/clawbotiq/71

72



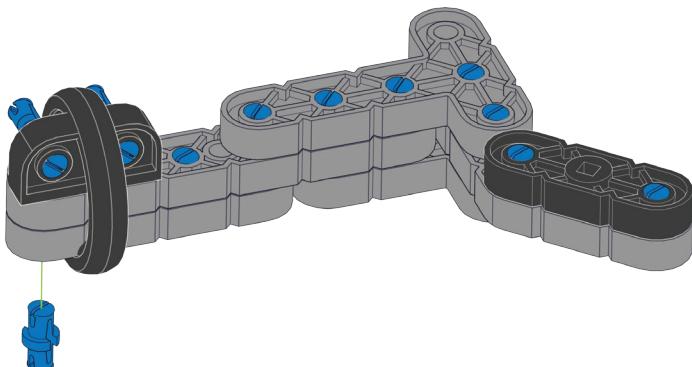
73


vexiq.com/clawbotiq/72

vexiq.com/clawbotiq/73

2

74

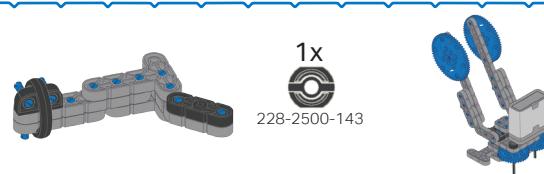
1x
228-2500-060



vexiq.com/clawbotiq/74

75

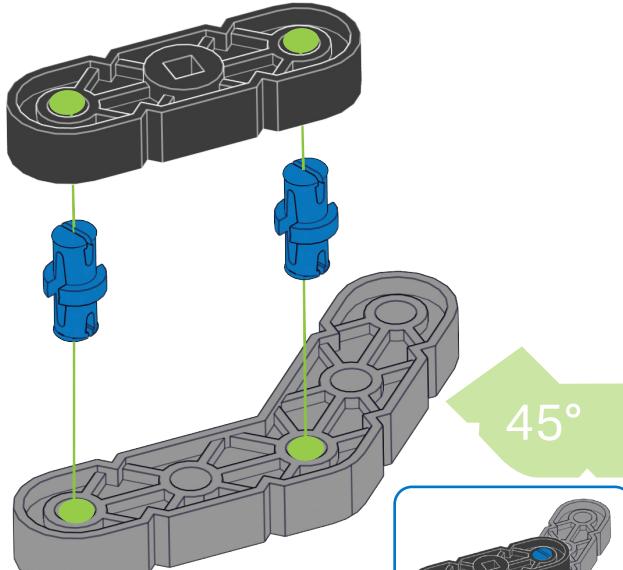
1x
228-2500-143



vexiq.com/clawbotiq/75

76

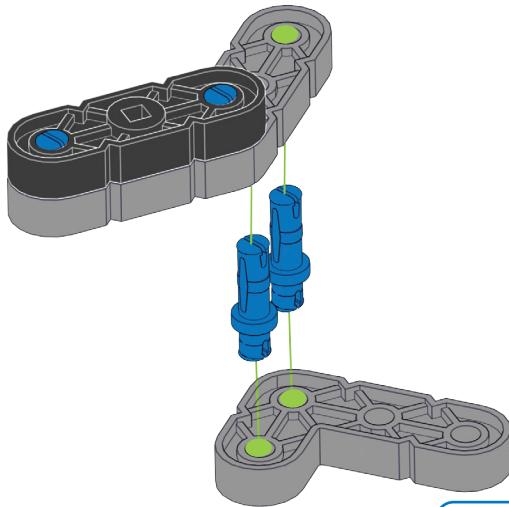
1x
228-2500-148 45°
2x
228-2500-060
1x
228-2500-141



vexiq.com/clawbotiq/76

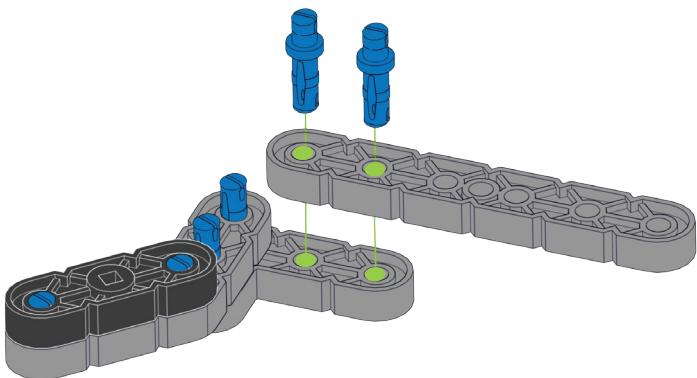
77

1x
228-2500-145
2x
228-2500-061

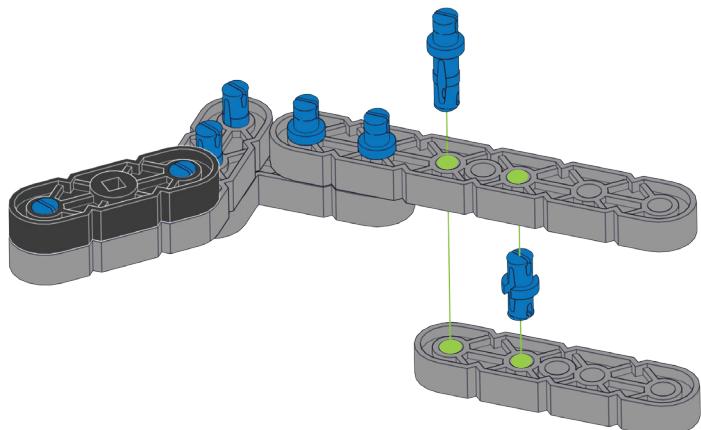


vexiq.com/clawbotiq/77

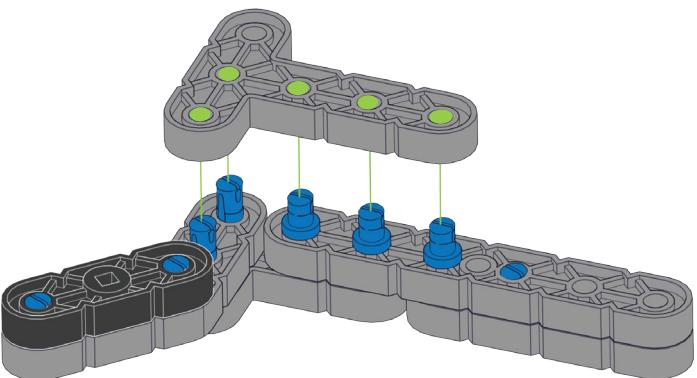
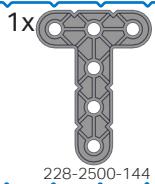
78


vexiq.com/clawbotiq/78

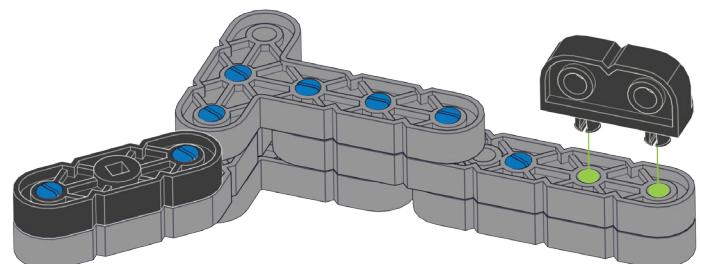
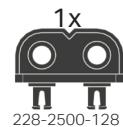
79


vexiq.com/clawbotiq/79

80

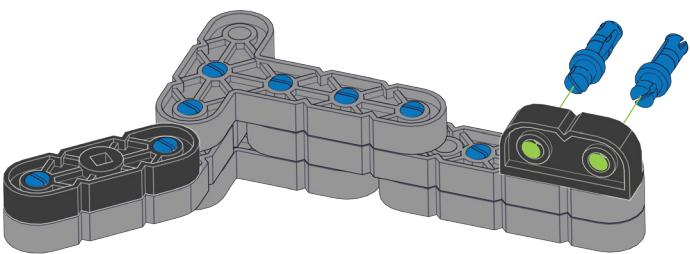
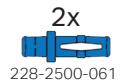

vexiq.com/clawbotiq/80

81

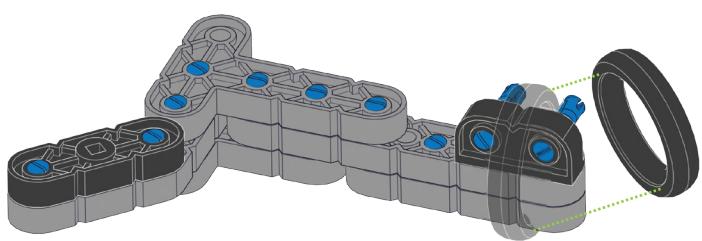

vexiq.com/clawbotiq/81

2

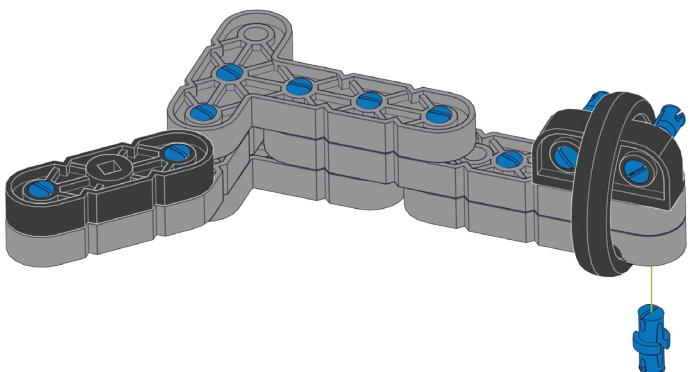
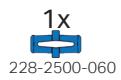
82

vexiq.com/clawbotiq/82

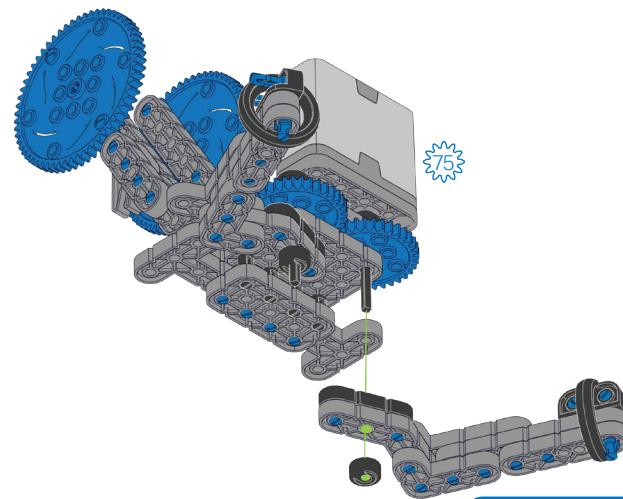
83

vexiq.com/clawbotiq/83

84

vexiq.com/clawbotiq/84

85

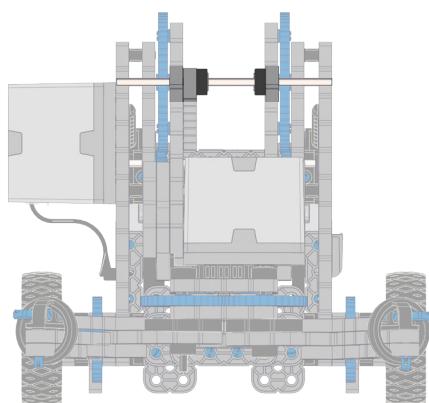
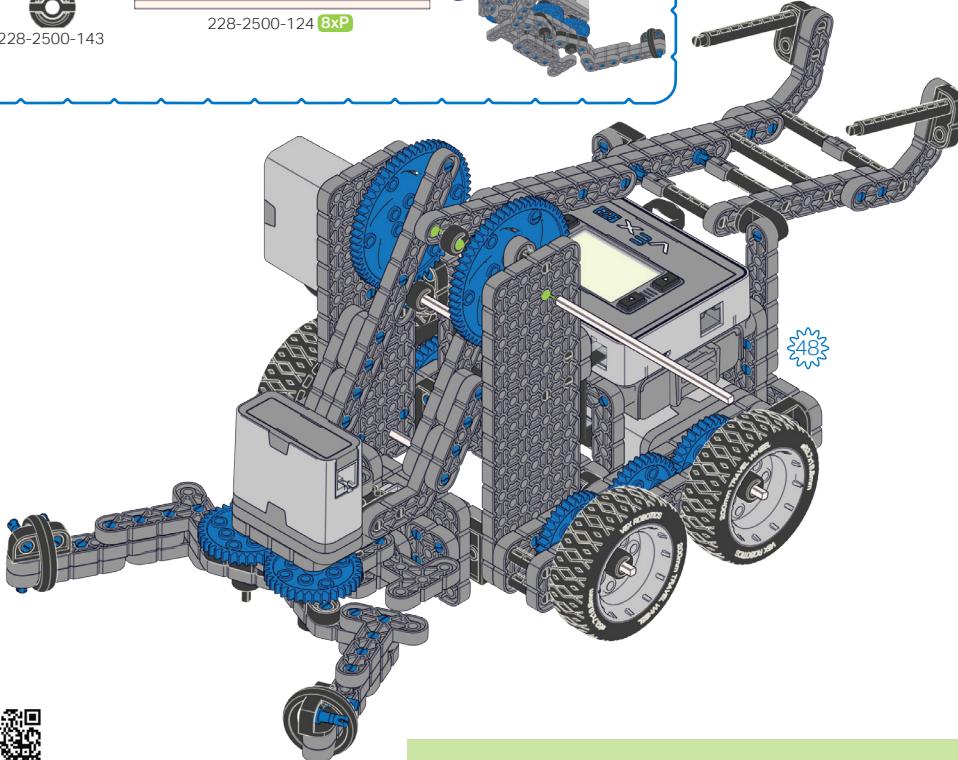
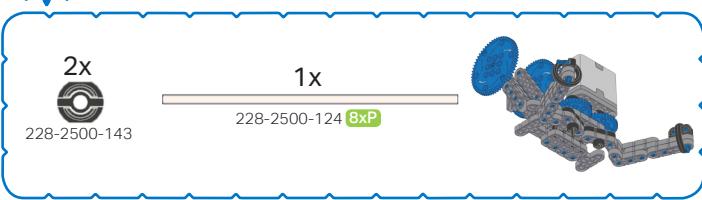
vexiq.com/clawbotiq/85

86

2x
228-2500-143

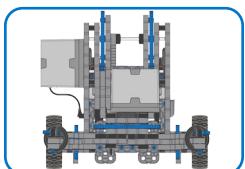
1x

228-2500-124 8xP

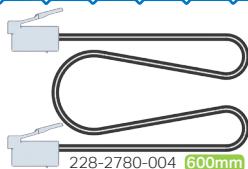


vexiq.com/clawbotiq/86

1:1



87



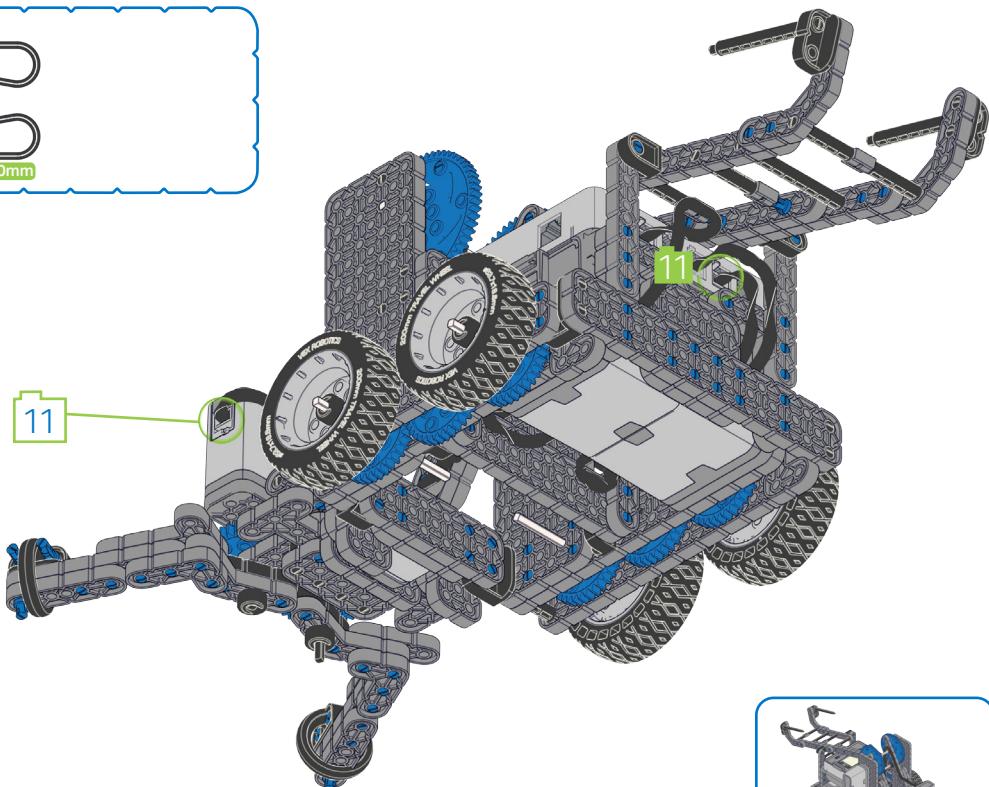
228-2780-004 600mm



6.1 For information on the Driver Control Program, see:
Pour plus d'informations sur le programme Driver Control, voir:



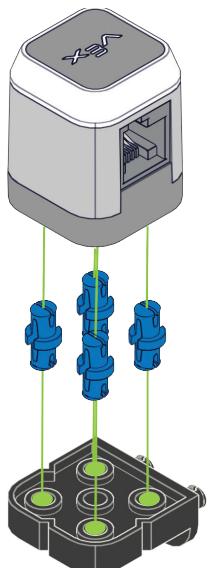
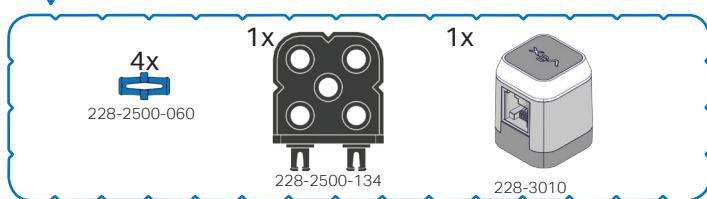
vexiq.com/clawbotiq/87



Clawbot IQ with Sensors

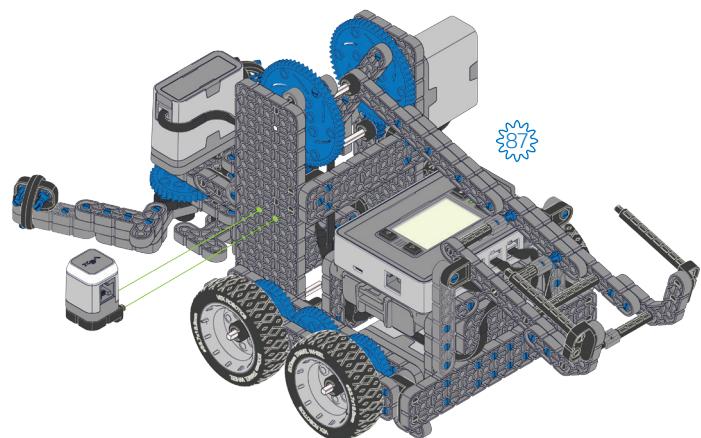
3 Clawbot IQ avec Capteurs

88



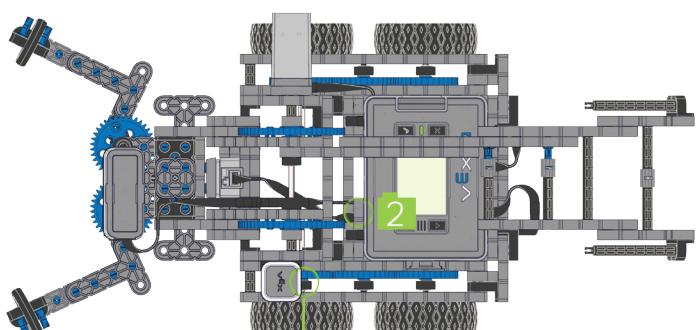
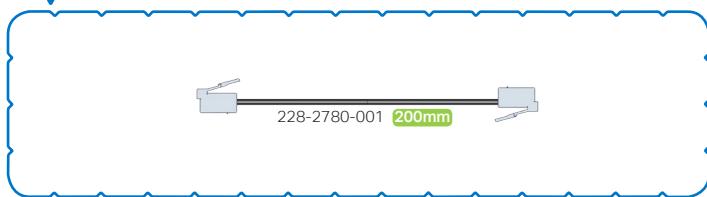
vexiq.com/clawbotiq/88

89



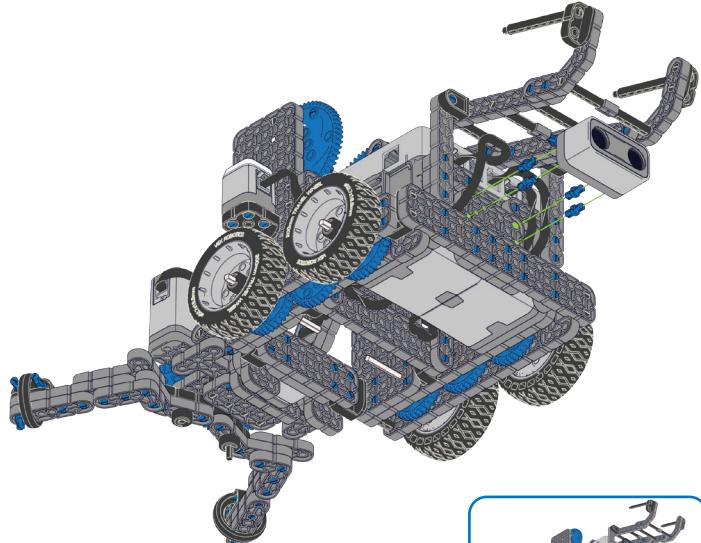
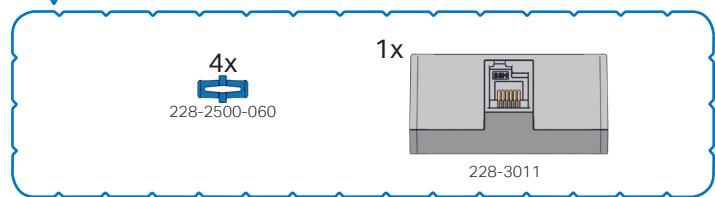
vexiq.com/clawbotiq/89

90



vexiq.com/clawbotiq/90

91

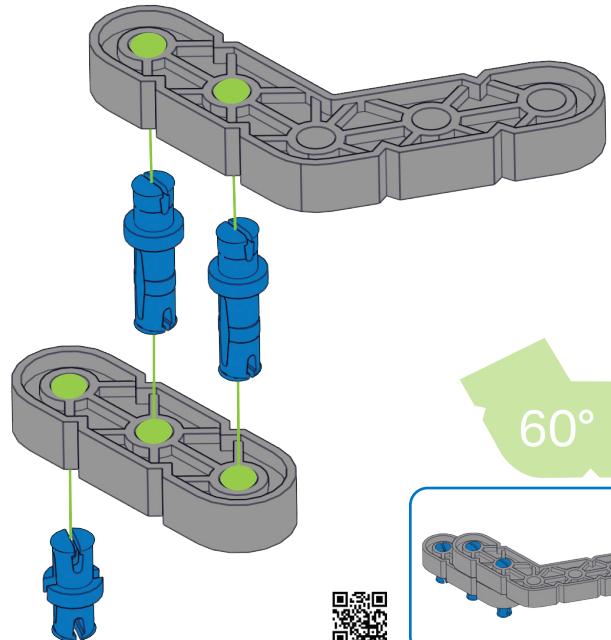
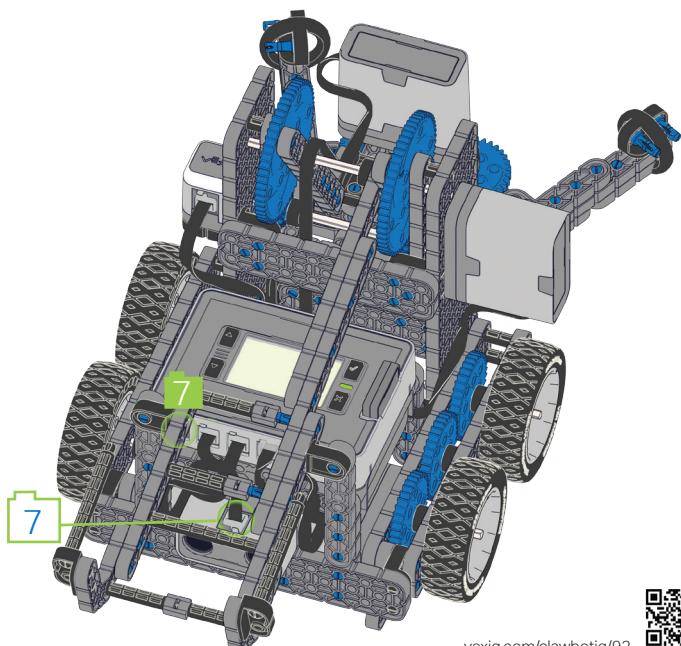
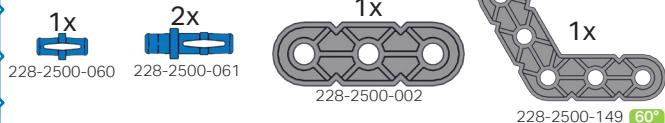


vexiq.com/clawbotiq/91

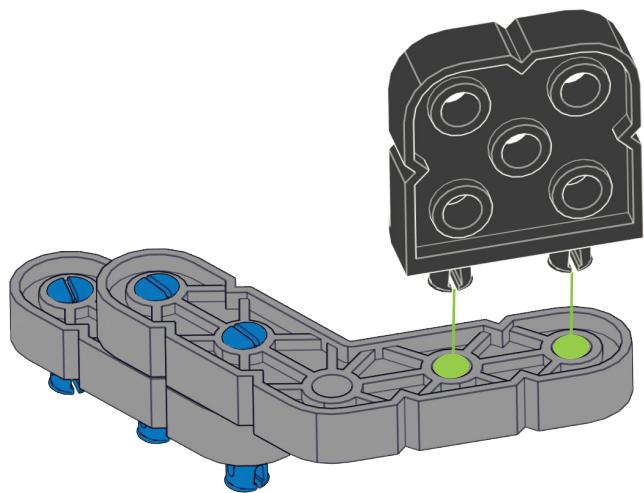
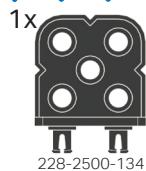
92



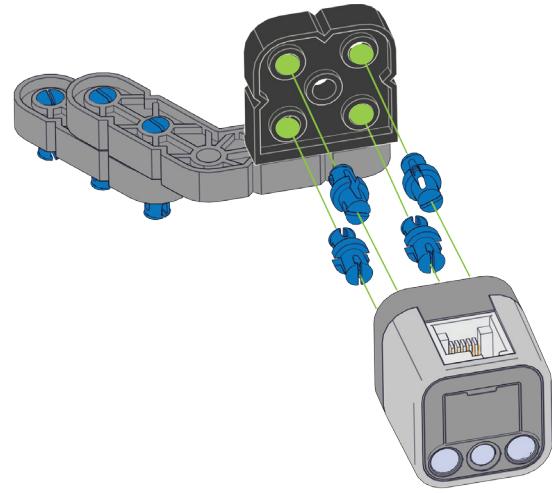
93



94



95



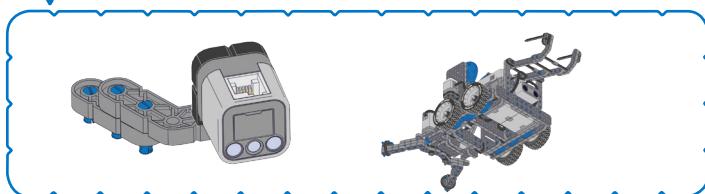
vexiq.com/clawbotiq/94



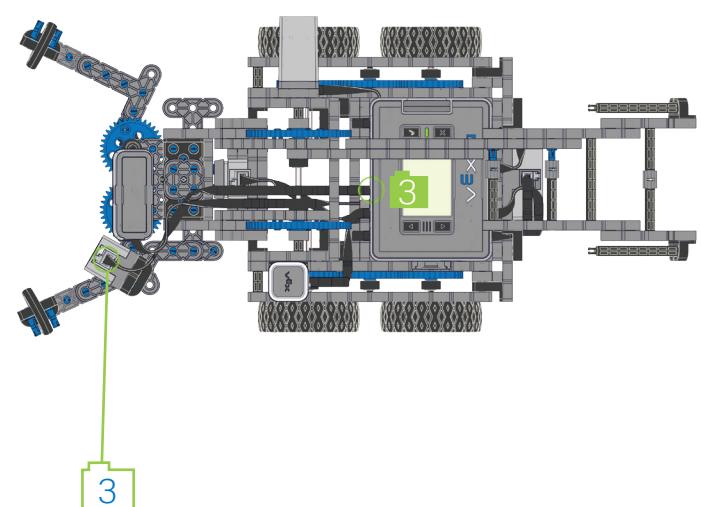
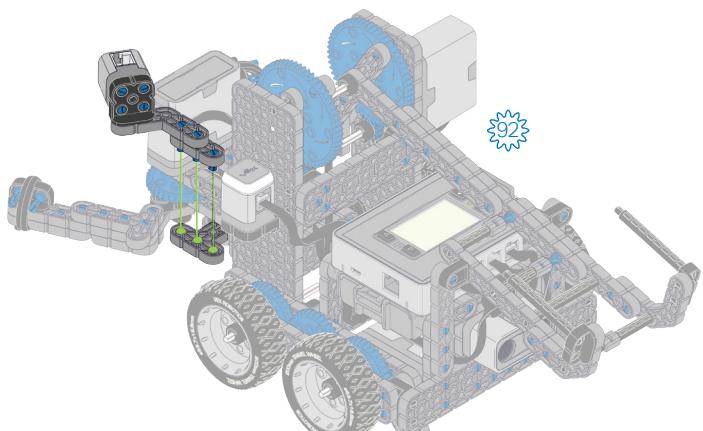
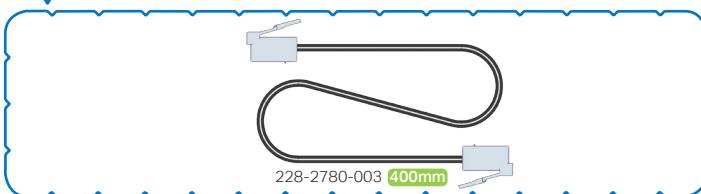
vexiq.com/clawbotiq/95

3

96



97



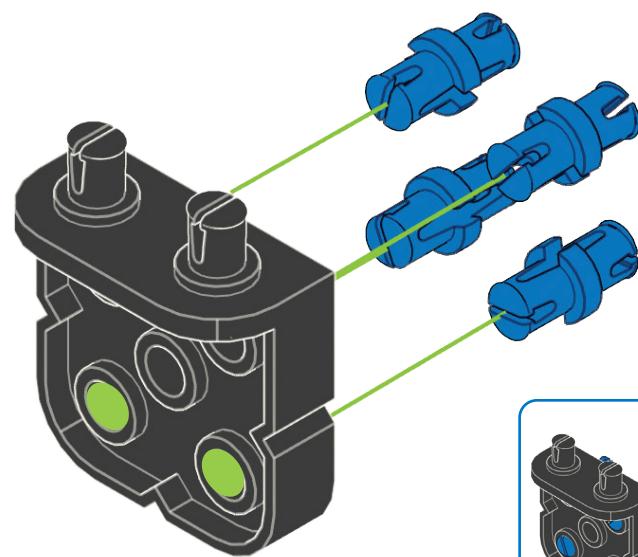
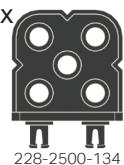
vexiq.com/clawbotiq/96



vexiq.com/clawbotiq/97

98

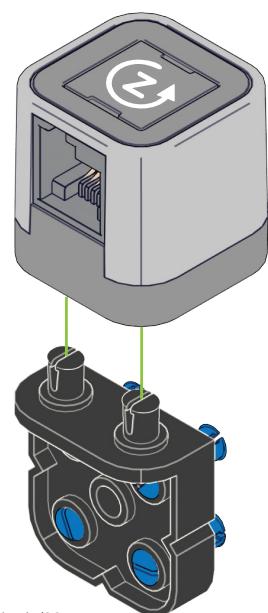
4x
228-2500-060



vexiq.com/clawbotiq/98

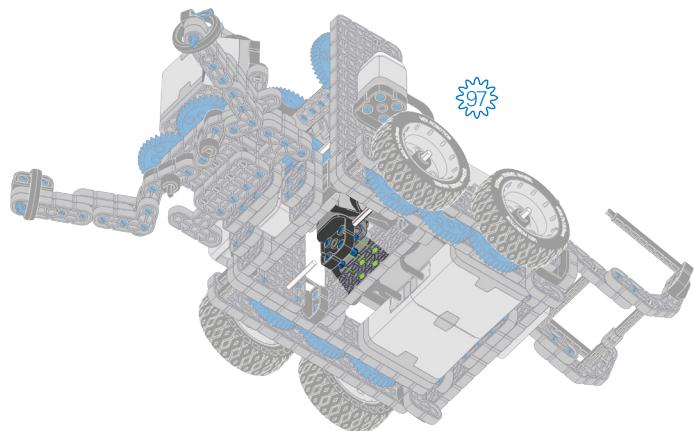
99

1x



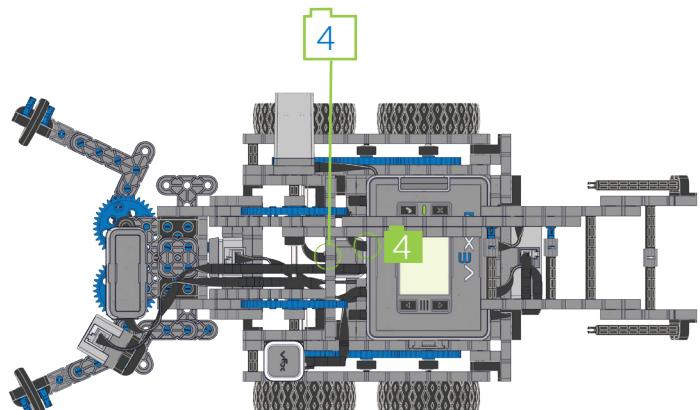
vexiq.com/clawbotiq/99

100



vexiq.com/clawbotiq/100

101



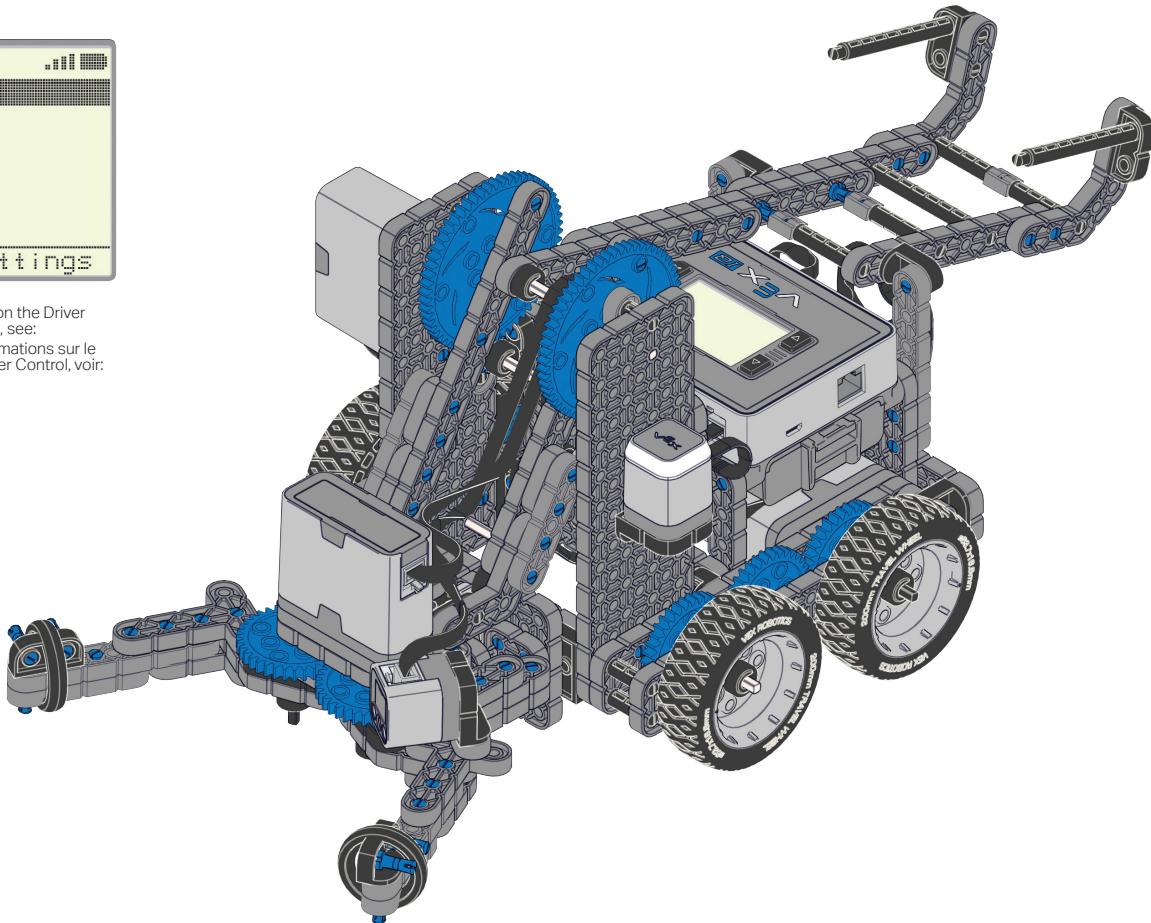
vexiq.com/clawbotiq/101



6.1



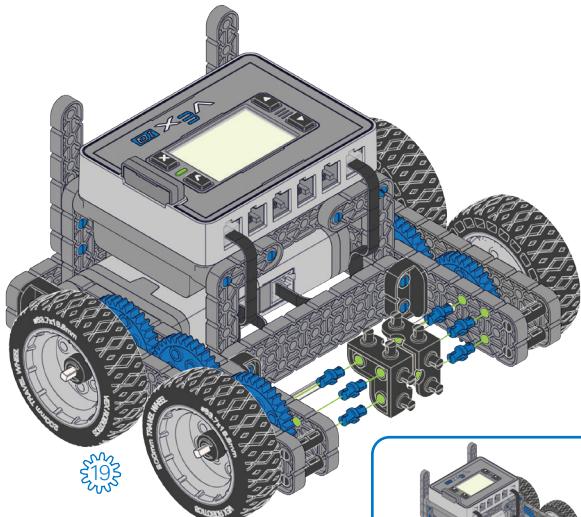
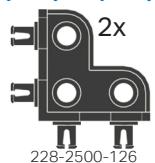
For information on the Driver Control Program, see:
Pour plus d'informations sur le programme Driver Control, voir:



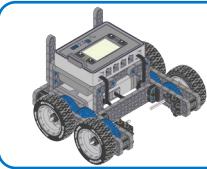
Autopilot Instructions

4 Instruction pour l'Autopilote

102



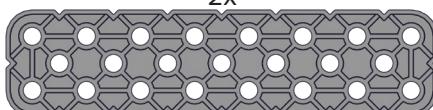
19



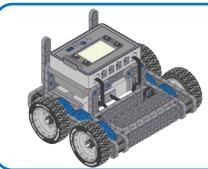
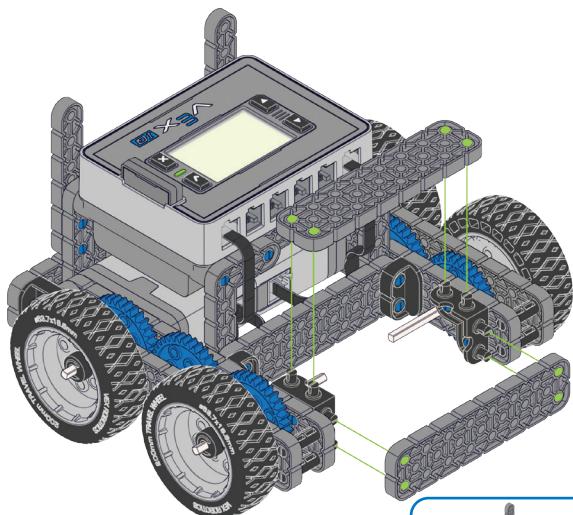
vexiq.com/clawbotiq/102

103

2x

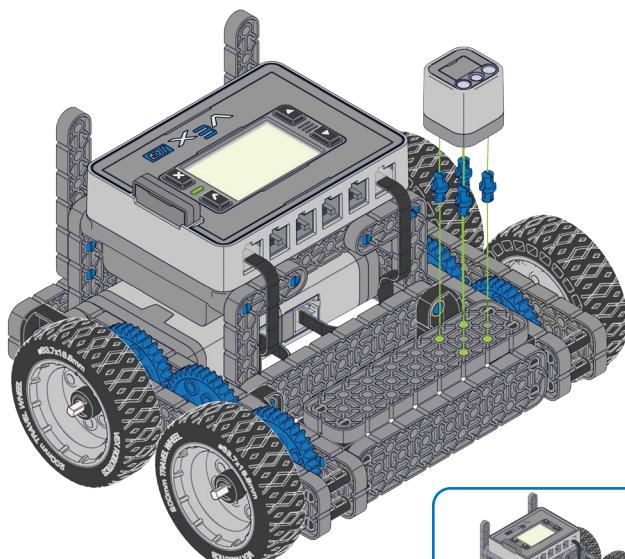


228-2500-023



vexiq.com/clawbotiq/103

104

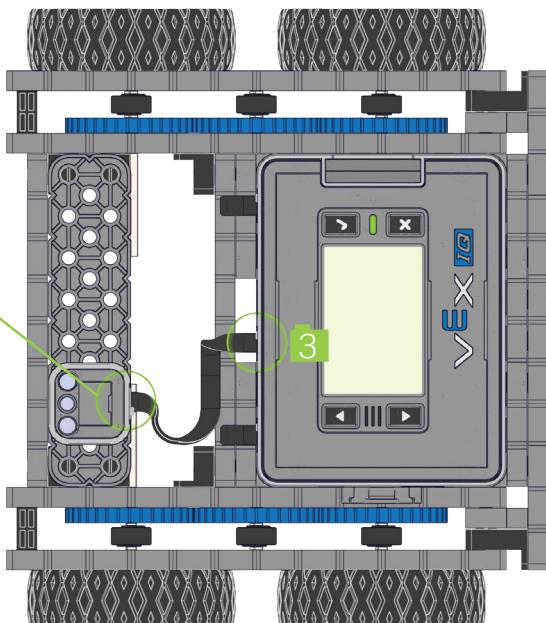


vexiq.com/clawbotiq/104

105



228-2780-002 300mm



vexiq.com/clawbotiq/105

106

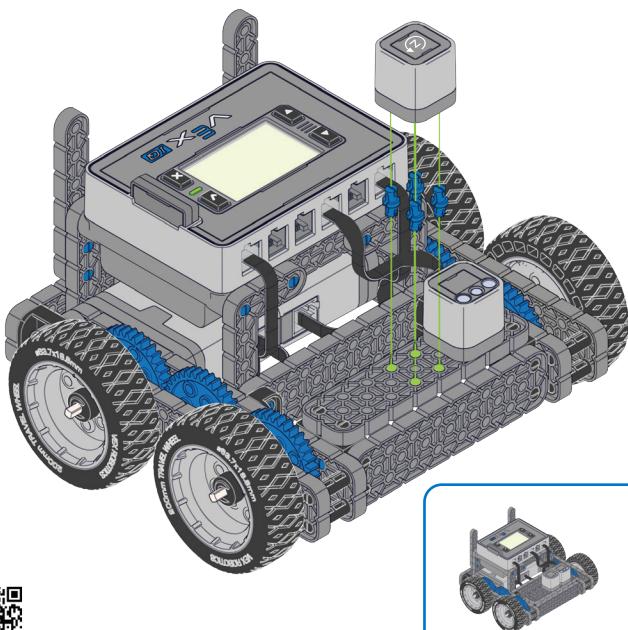
1x



228-2500-060



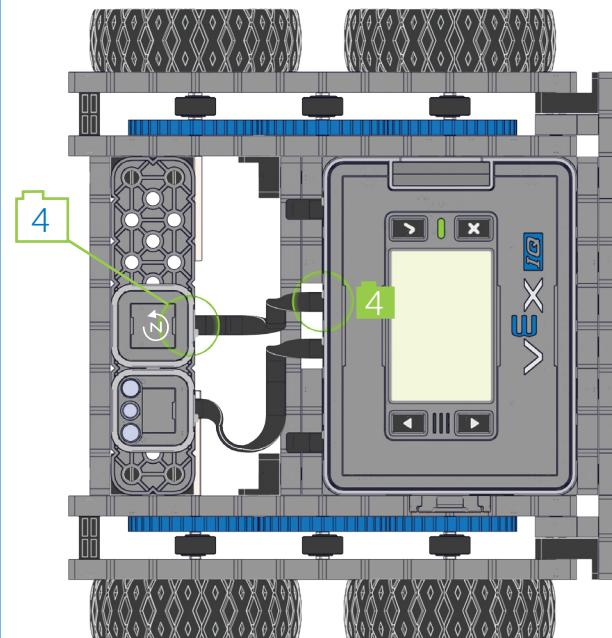
228-3014

vexiq.com/clawbotiq/106

107



228-2780-002 300mm

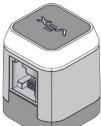
vexiq.com/clawbotiq/107

108

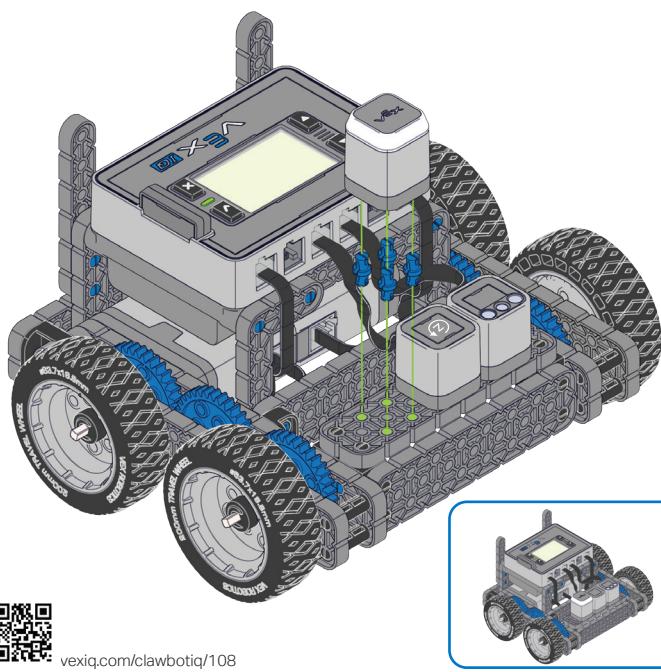
1x



228-2500-060



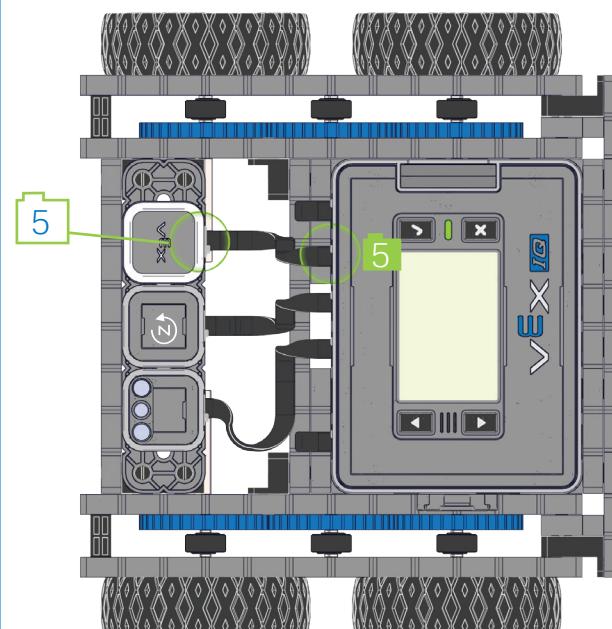
228-3010

vexiq.com/clawbotiq/108

109

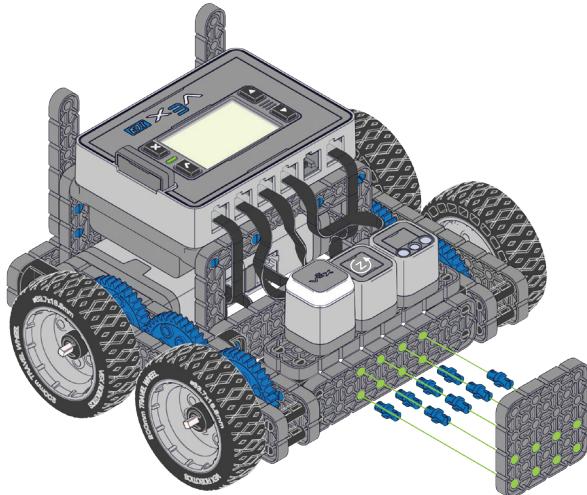
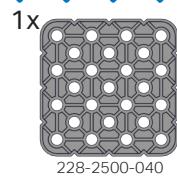


228-2780-002 300mm

vexiq.com/clawbotiq/109

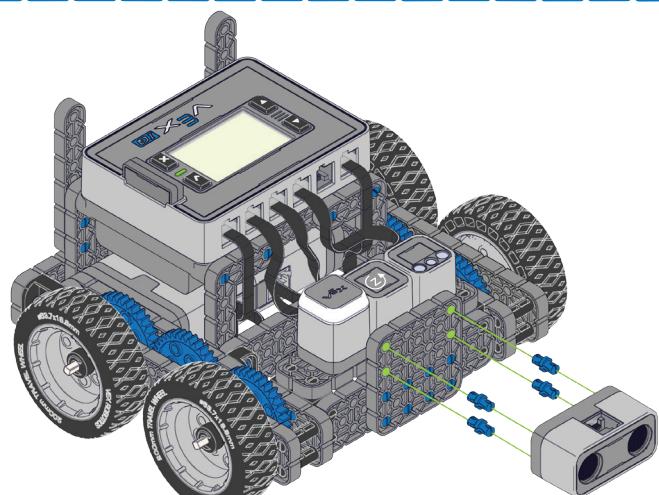
110

8x
228-2500-060

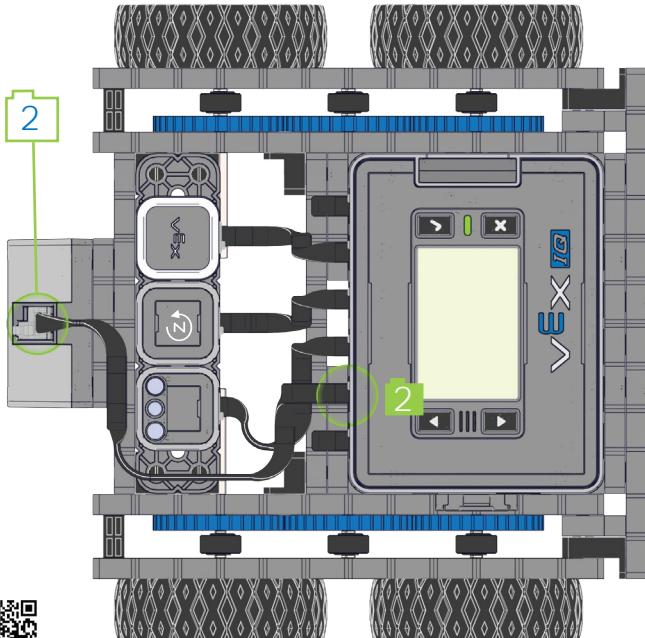

vexiq.com/clawbotiq/110

111

4x
228-2500-060

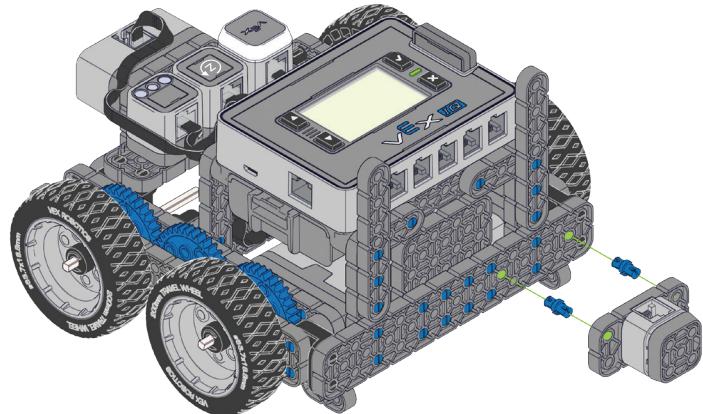
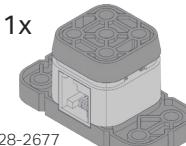

vexiq.com/clawbotiq/111

112

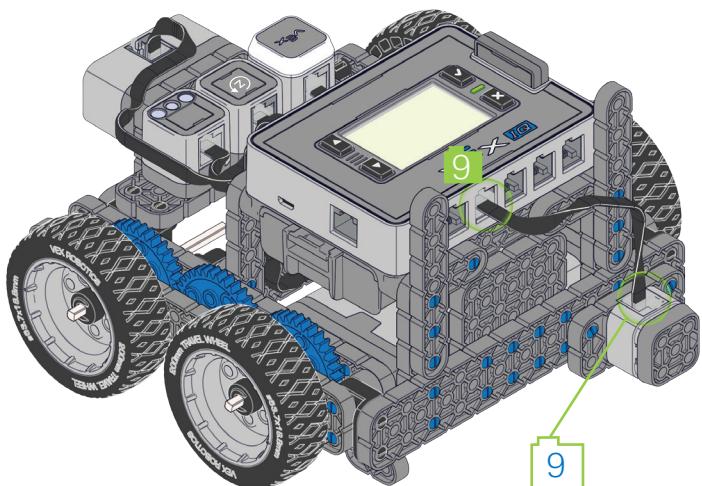

vexiq.com/clawbotiq/112

113

2x
228-2500-060

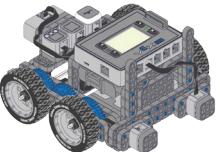
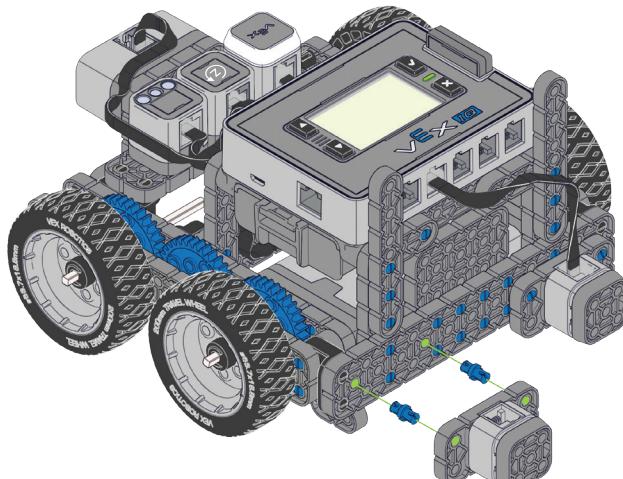

vexiq.com/clawbotiq/113

114

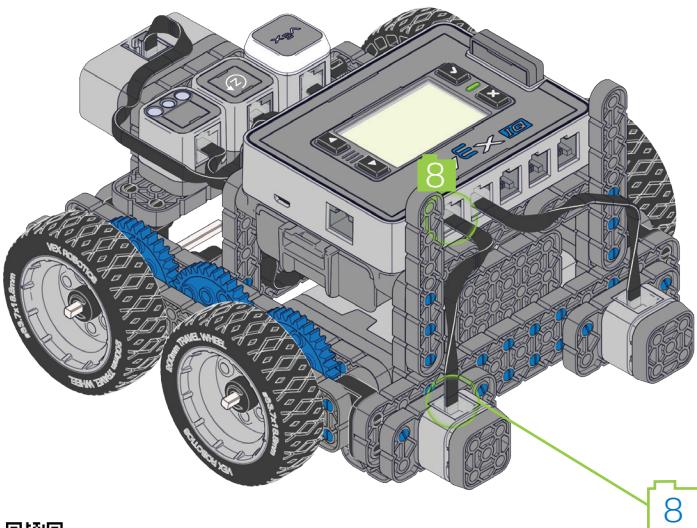
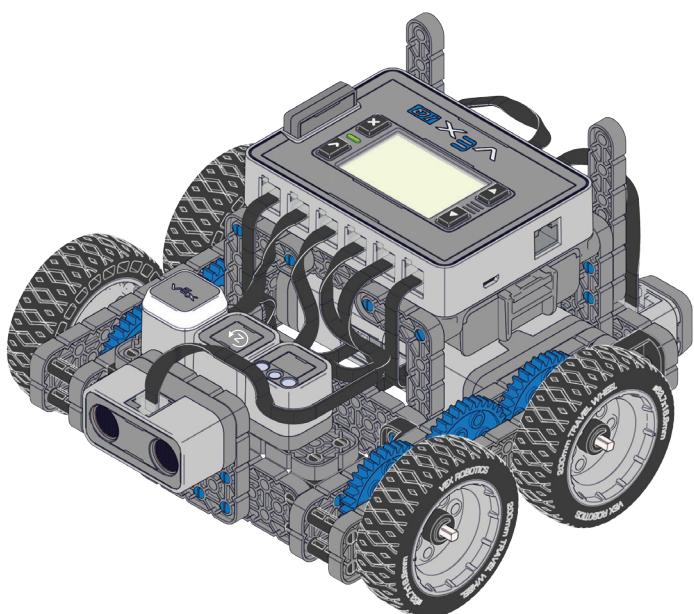

vexiq.com/clawbotiq/114

115

2x
228-2500-060


vexiq.com/clawbotiq/115

116


vexiq.com/clawbotiq/116


6.2



For information on Autopilot Program see:
Pour plus d'informations sur le programme Autopilot, voir:



Build Instructions

Instructions de Construction

Ages 8+

Ans 8+

228-3428-750 Rev10

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.

3428



8 07648 03428 8

Ce produit est uniquement destiné à être utilisé dans le cadre d'un système VEX IQ.

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



www.vexiq.com