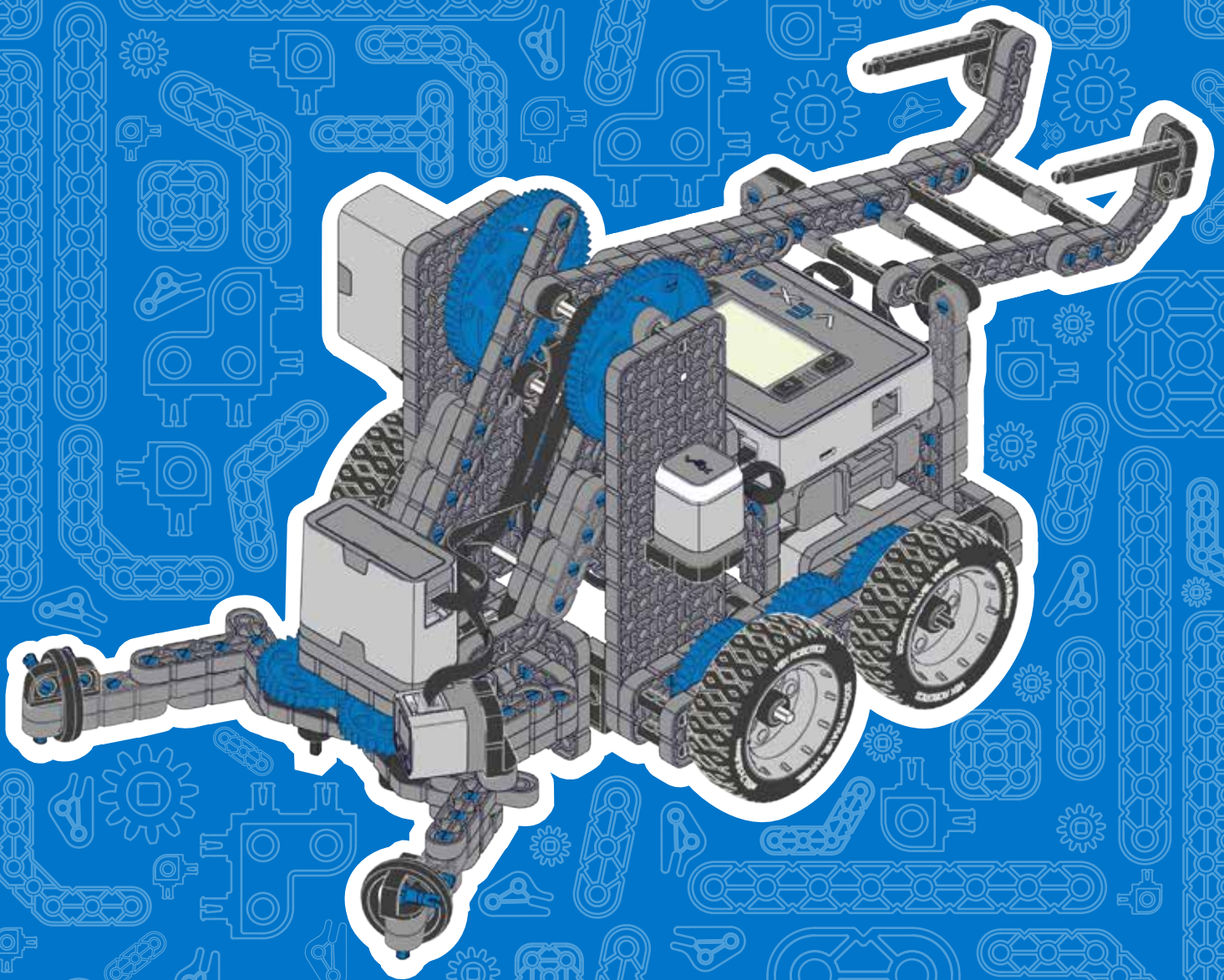


VEX IQ

Build Instructions Montageanleitung



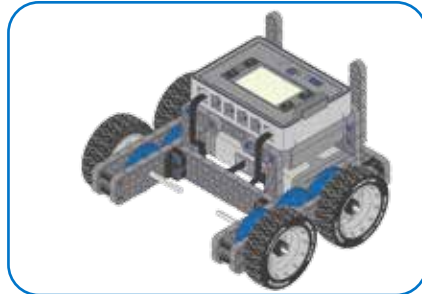
Includes plans for
all four robots | Anleitung für alle
vier Roboter



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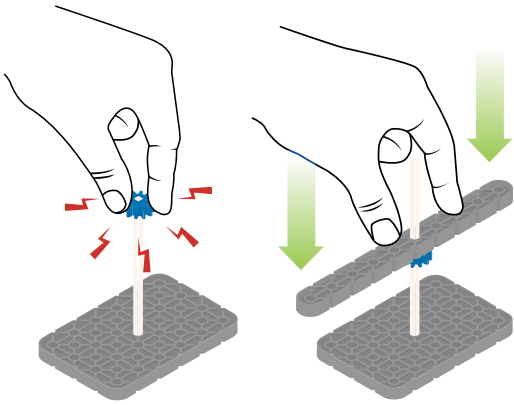
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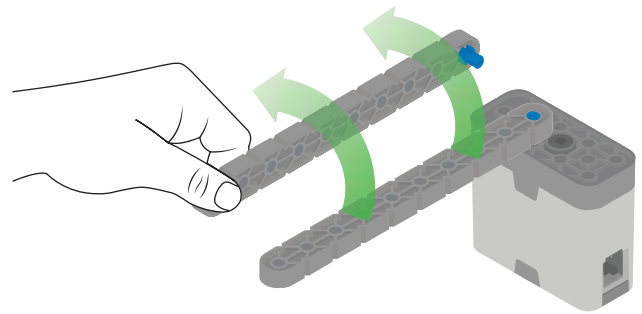


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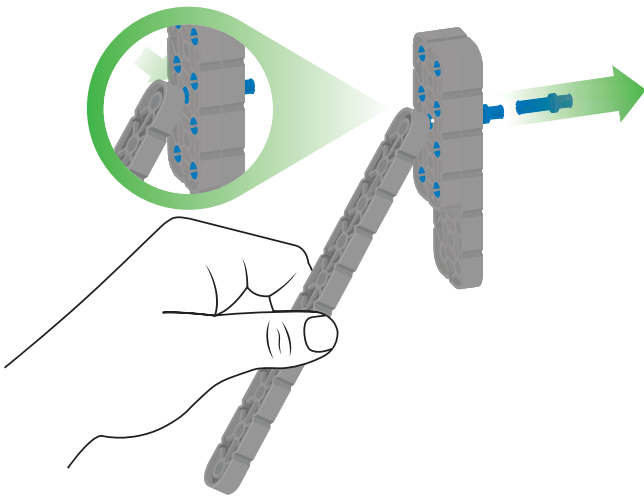
VEX IQ Assembly Tips: Montagehinweise zum VEX IQ: i



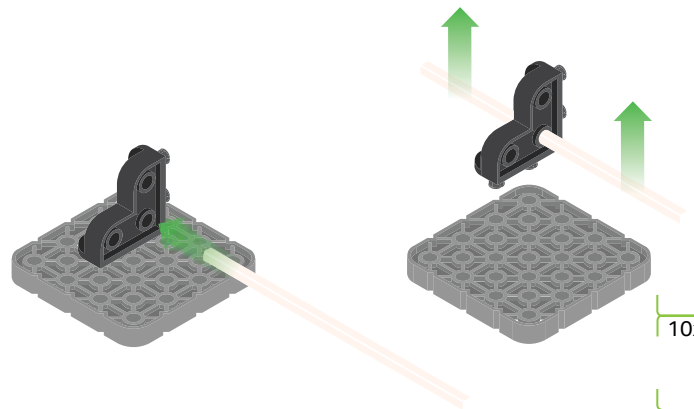
Use a 1x Beam for extra leverage when mounting small VEX IQ elements on shafts.
1x Träger können als Extra-Hebel verwendet werden, um kleine VEX-IQ-Elemente auf Wellen zu montieren.



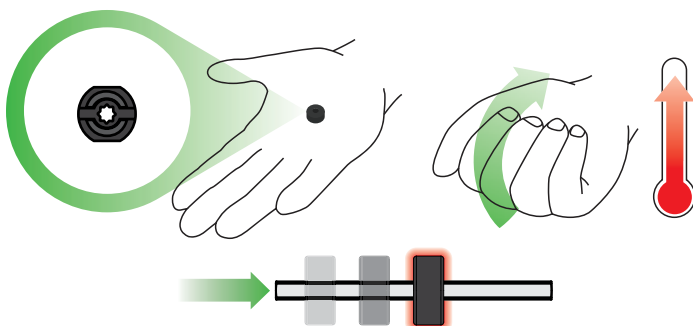
Connector Pins can be smoothly removed from Smart Motors, Sensors, or Robot Brains using a 1x Beam. Put the 1x Beam onto the pin and twist the Beam while pulling outward.
Verbindungsstifte können mit einem 1x Träger leicht von Smart Motoren, Sensoren oder vom Robot Brain entfernt werden. Dazu den 1x Träger auf den Stift setzen und beim Herausziehen seitlich drehen.



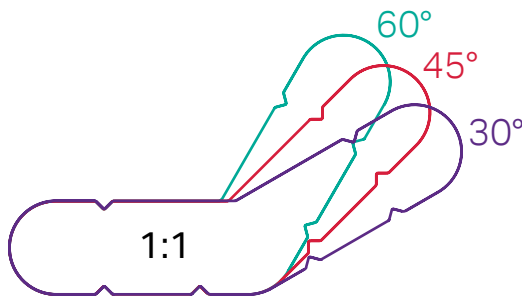
Quickly remove Connector Pins by pressing a VEX IQ Beam against the back of the Pin and pulling it out.
Verbindungsstifte können schnell entfernt werden, indem ein VEX IQ Träger gegen die Rückseite des Stifts gedrückt wird.



Easily remove Corner Connectors by placing a metal shaft through one of the holes and pulling outward.
Winkelverbinder sind leicht zu entfernen, indem eine Metallwelle durch eins der Löcher gesteckt und der Verbinder dann abgezogen wird.

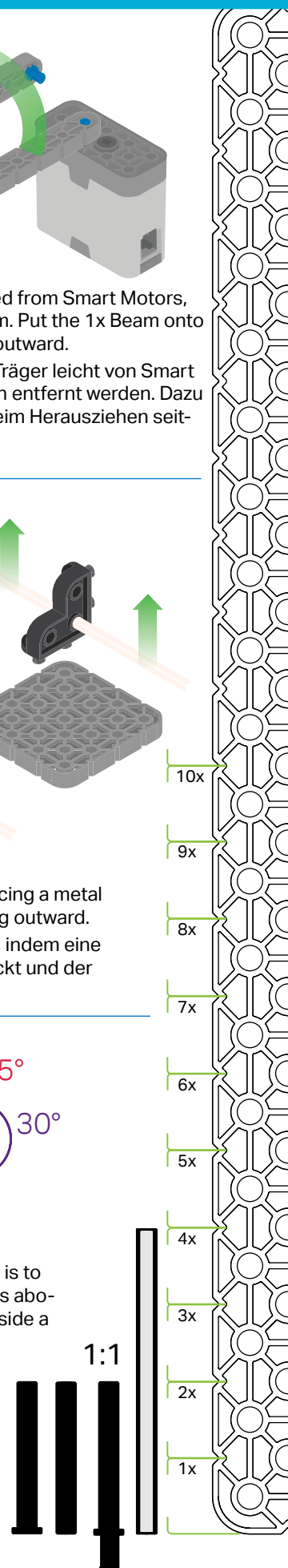


Rubber Shaft Collars become softer and easier to install if they are warmed by holding them in your hand for 15-30 seconds.
Wellenbünde aus Gummi werden weicher und leichter zu installieren, wenn sie vorher 15 bis 30 Sekunden lang in der Hand aufgewärmt wurden.



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.

Die beste Art, einen Winkelträger zu vermessen, besteht darin, ihn mit bekannten Winkeln zu vergleichen (wie oben). Die Länge einer Welle entspricht der Anzahl der Kerben auf einem VEX IQ Träger.



1 Standard Drive Base Standard-Fahrwerk

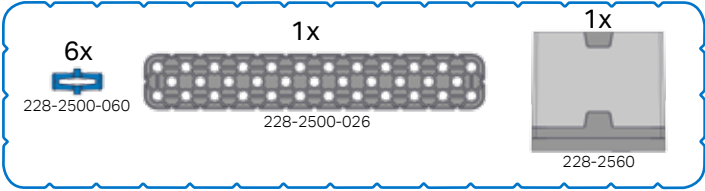
1

Required parts
Erforderliche Teile

6x 228-2500-060

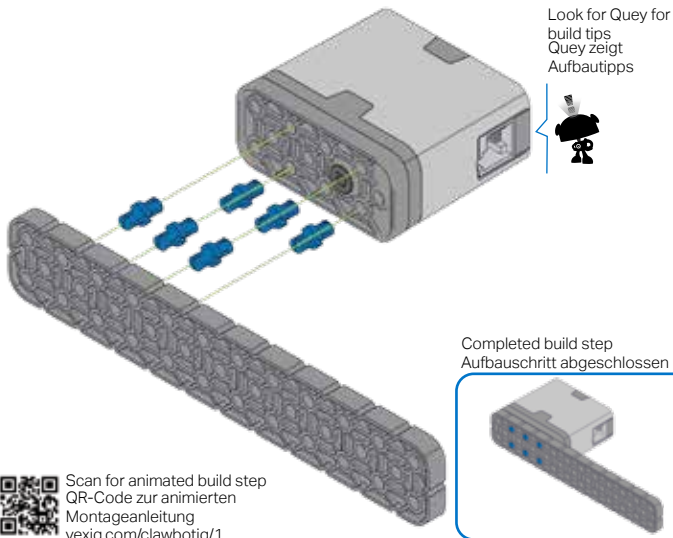
1x 228-2500-026

1x 228-2560



Look for Quey for build tips
Quey zeigt Aufbautipps

Completed build step
Aufbauschnitt abgeschlossen



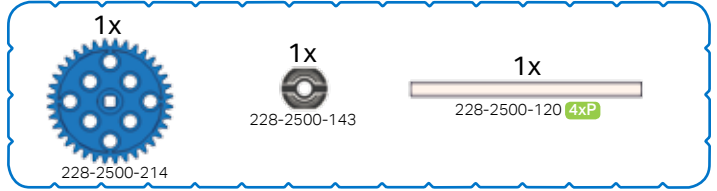
Scan for animated build step
QR-Code zur animierten
Montageanleitung
vexiq.com/clawbotiq/1

2

1x 228-2500-214

1x 228-2500-143

1x 228-2500-120 (4xP)

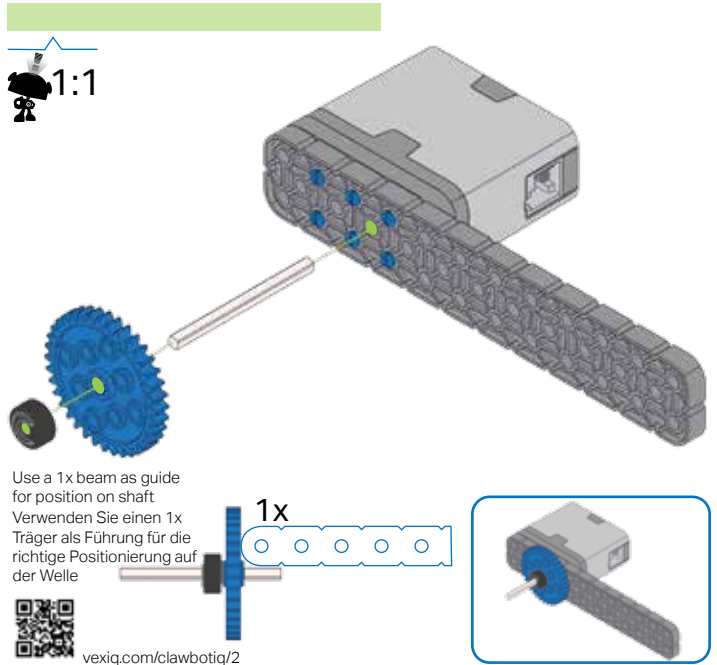


1:1

Use a 1x beam as guide for position on shaft
Verwenden Sie einen 1x Träger als Führung für die richtige Positionierung auf der Welle

1x

vexiq.com/clawbotiq/2



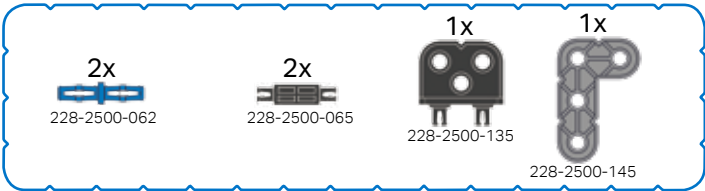
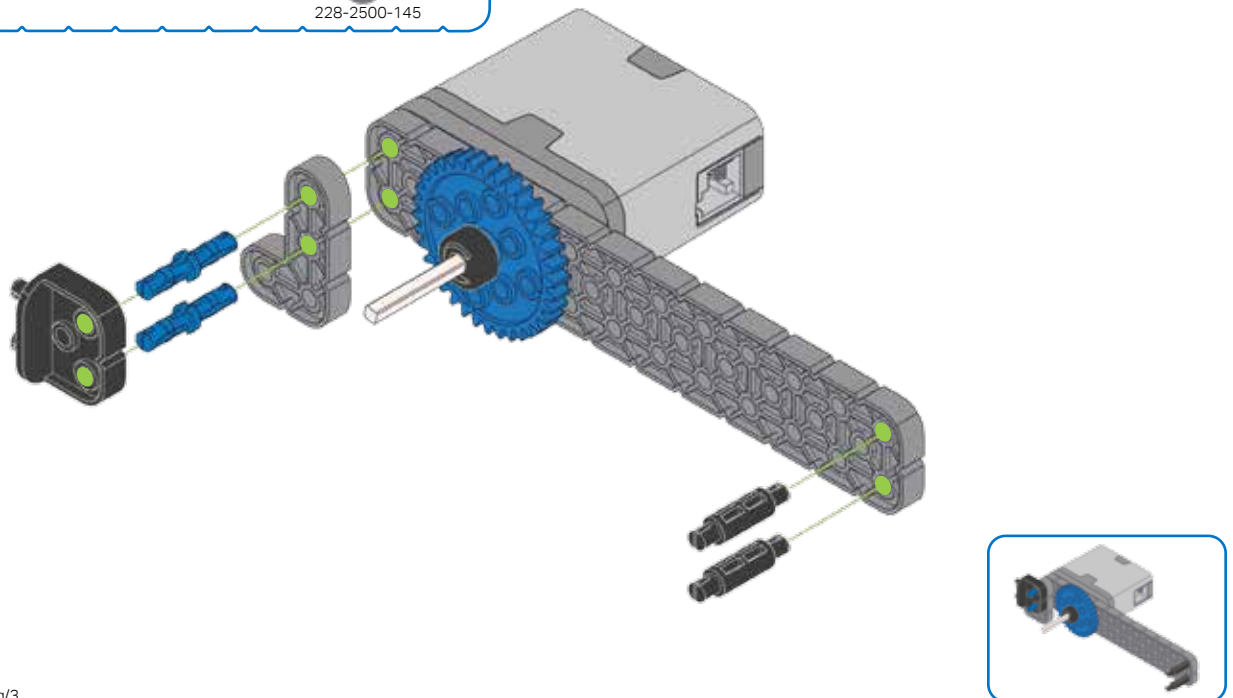
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2x 228-2500-062

2x 228-2500-065

1x 228-2500-135

1x 228-2500-145

vexiq.com/clawbotiq/3

4

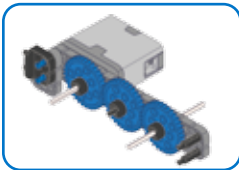
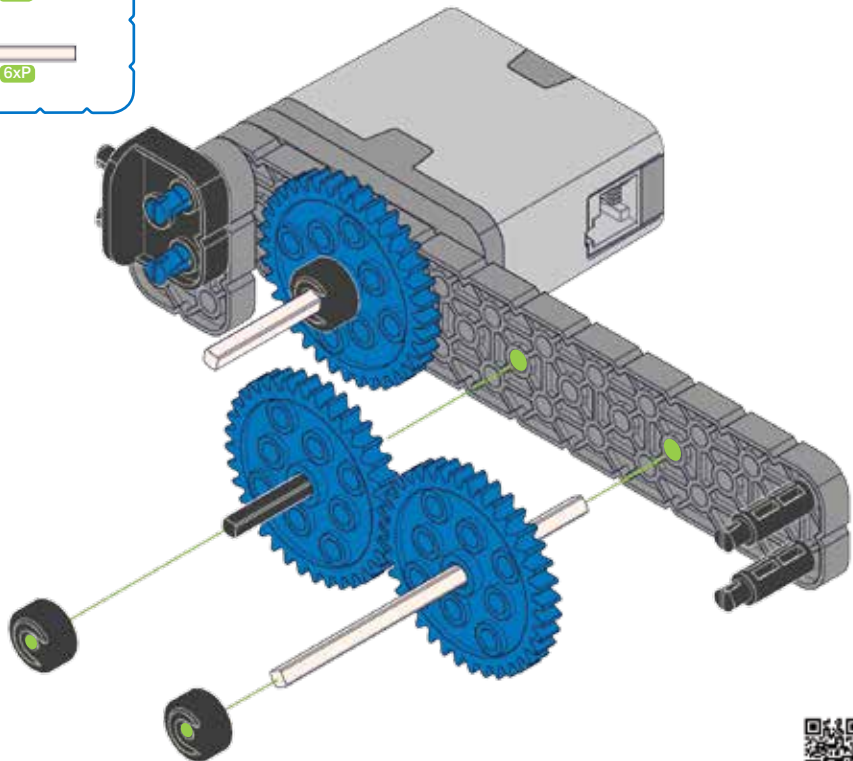
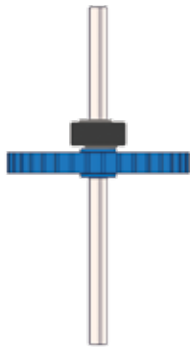
2x
228-2500-214

2x
228-2500-143

1x
228-2500-074 2xP

1x
228-2500-122 6xP

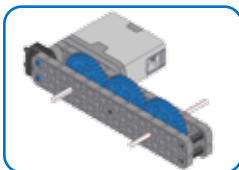
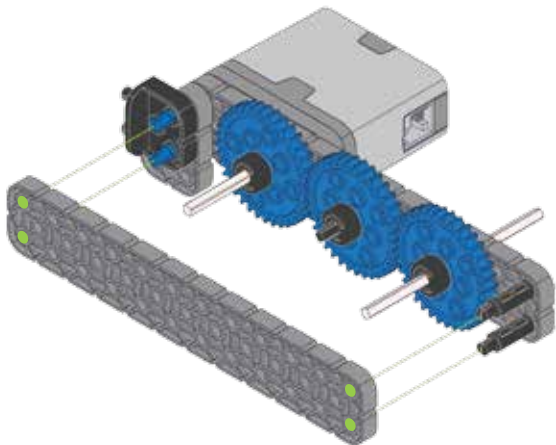
1:1



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5

1x
228-2500-026



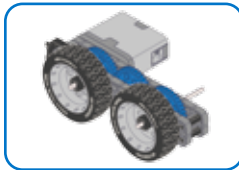
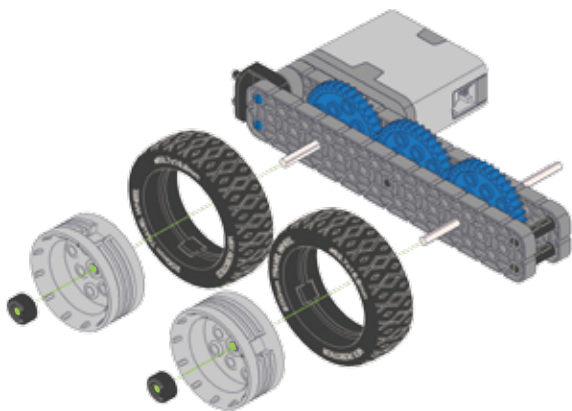
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6

2x
228-2500-208

2x
228-2500-143

2x
228-2500-209



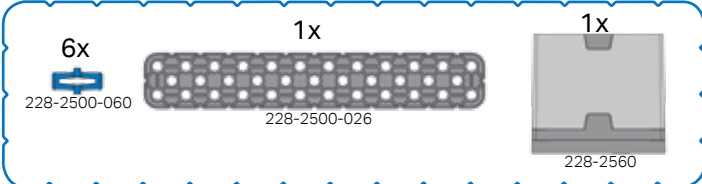
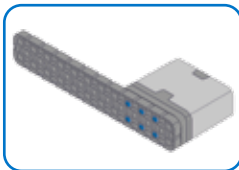
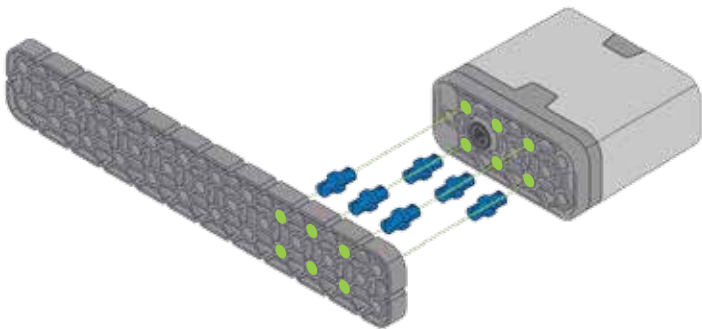
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7

6x 228-2500-060

1x 228-2500-026

1x 228-2560

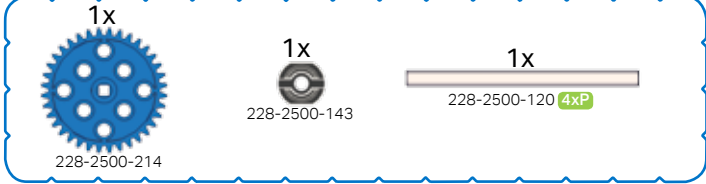
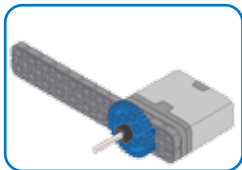
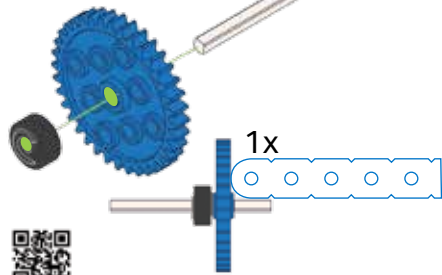
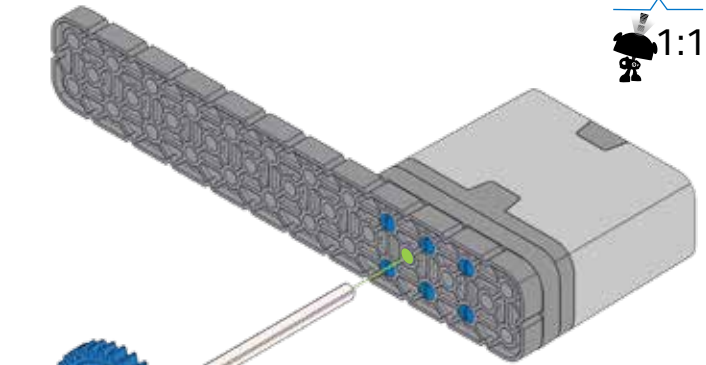
vexiq.com/clawbotiq/7

8

1x 228-2500-214

1x 228-2500-143

1x 228-2500-120 4xP

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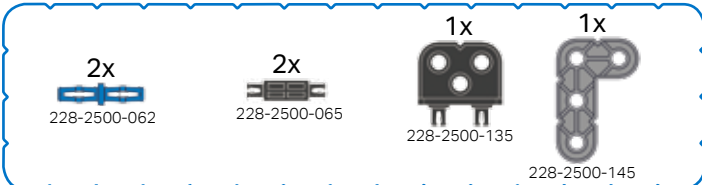
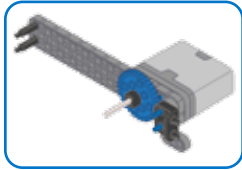
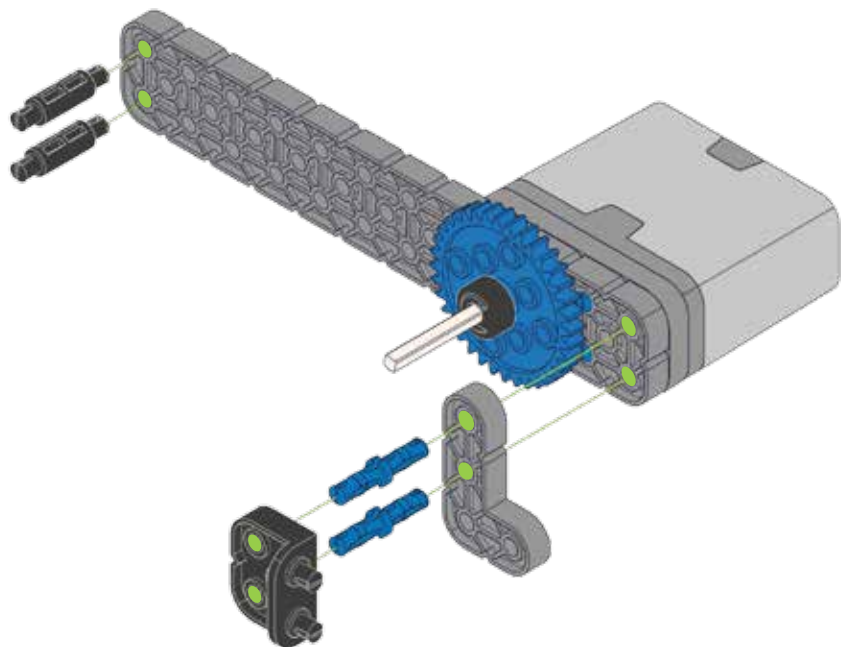
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2x 228-2500-062

2x 228-2500-065

1x 228-2500-135

1x 228-2500-145

vexiq.com/clawbotiq/9

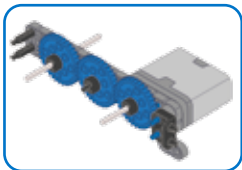
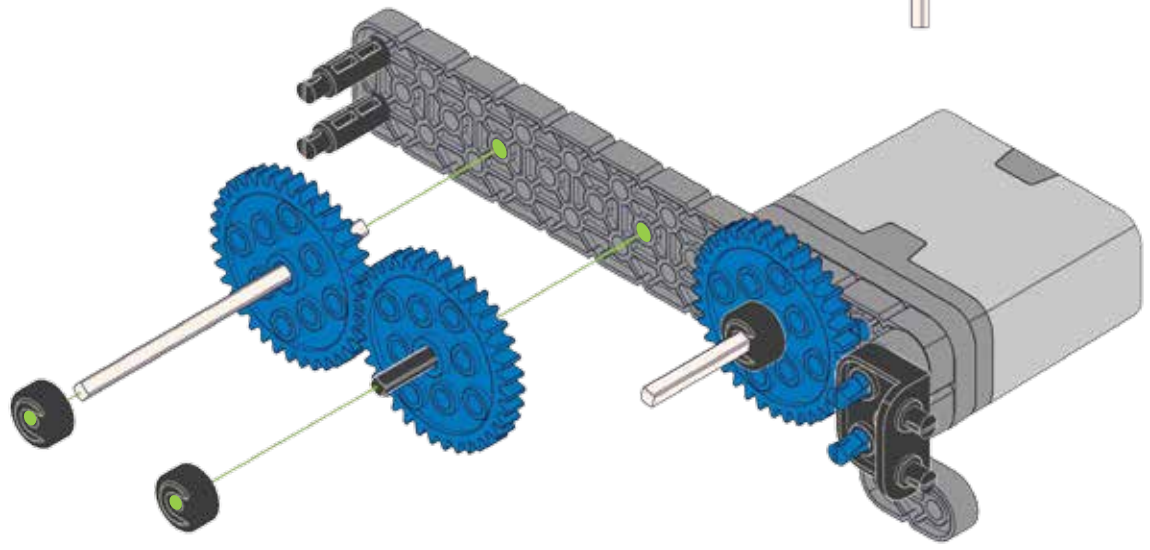
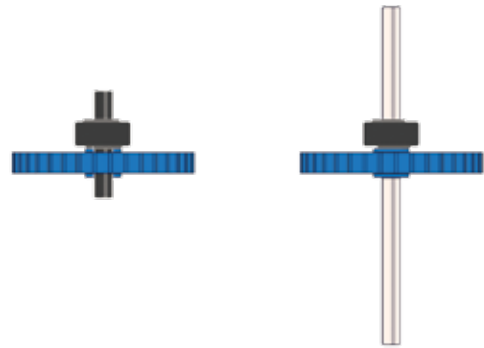
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2x
228-2500-214

2x
228-2500-143

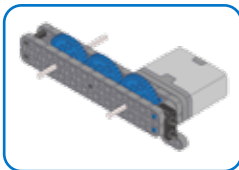
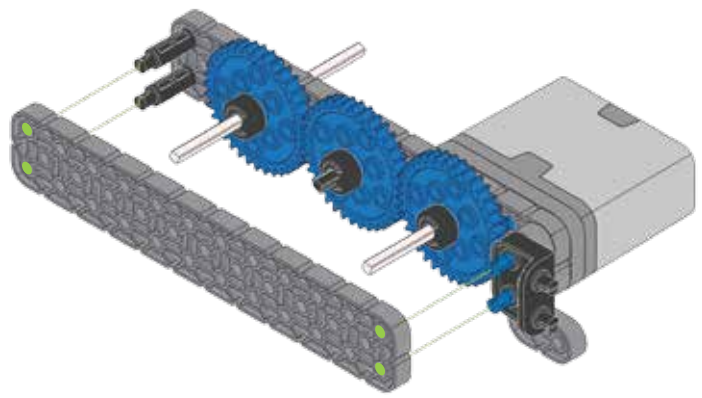
1x
228-2500-074 2xP

1x
228-2500-122 6xP



11

1x
228-2500-026

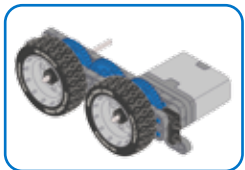


12

2x
228-2500-208

2x
228-250-143

2x
228-2500-209



13

4x 228-2500-060
 4x 228-2500-061
 2x 228-2500-128
 2x 228-2500-150
 1x 228-2500-023

QR code: vexiq.com/clawbotiq/13

14

12

White gears reference previous steps
 Weiße Zahnräder verweisen auf vorherige Schritte

6

QR code: vexiq.com/clawbotiq/14

15

8x 228-2500-060
 1x 228-2500-040
 1x 228-2500-026

QR code: vexiq.com/clawbotiq/15

16

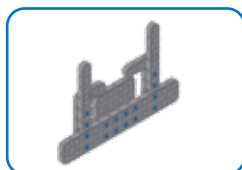
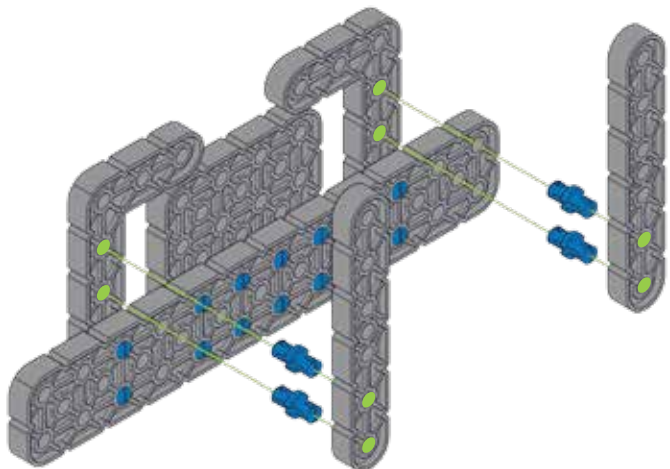
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 2x 228-2500-150

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17

4x
228-2500-060

2x
228-2500-005



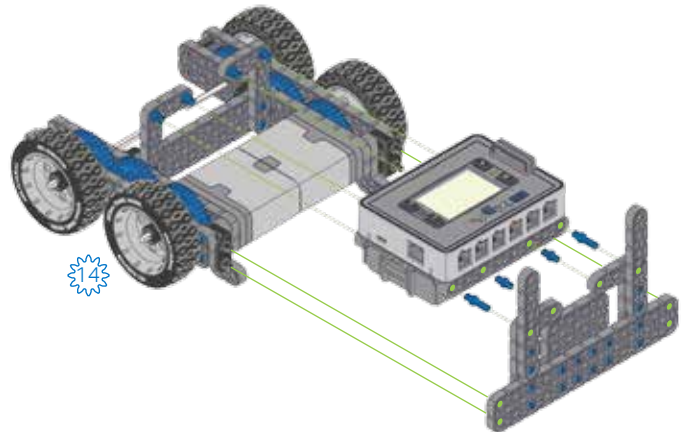
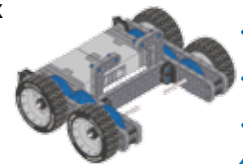
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18

2x
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2x
228-2500-061

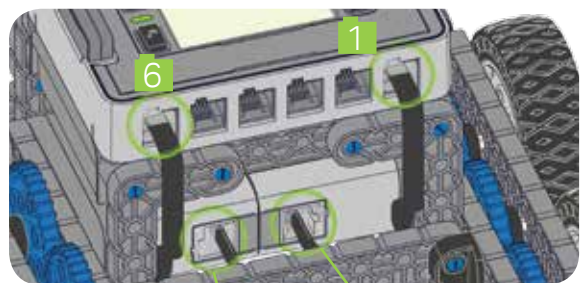
1x
228-2540



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19

2x
228-2780-001 (200mm)



6

1

Connect Smart Device to indicated Robot Brain port
Die Steuerungselemente an den angezeigten Anschluss des Robot Brains anschließen



20

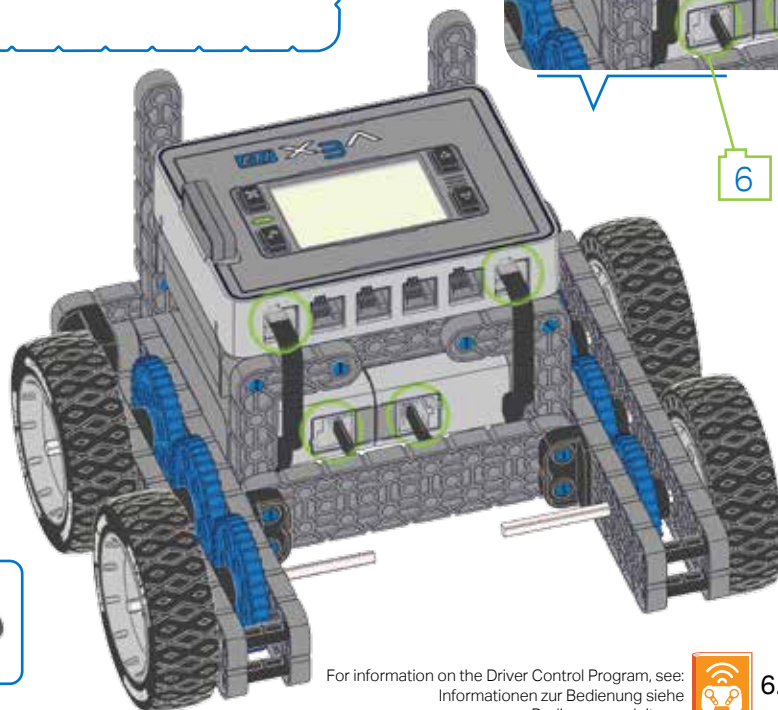
102




Clawbot IQ



Autopilot



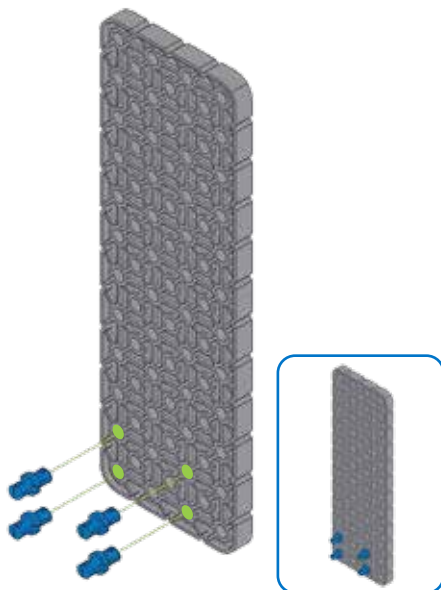
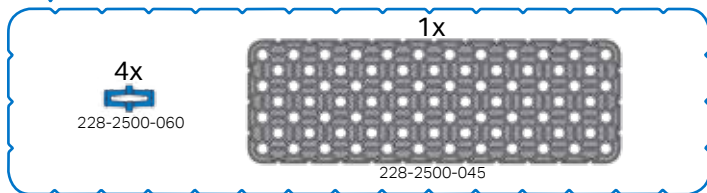
For information on the Driver Control Program, see:
Informationen zur Bedienung siehe Bedienungsanleitung:  6.1

vexiq.com/clawbotiq/19



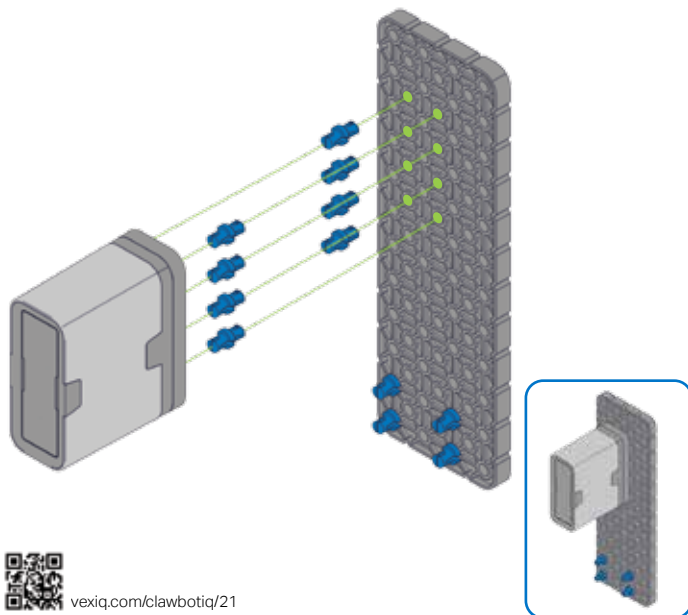
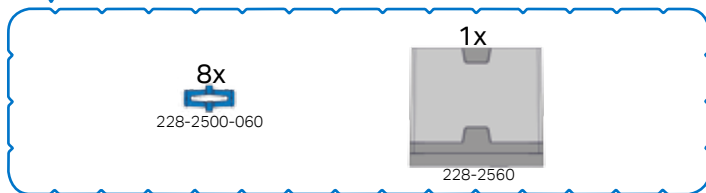
2 Clawbot IQ

20



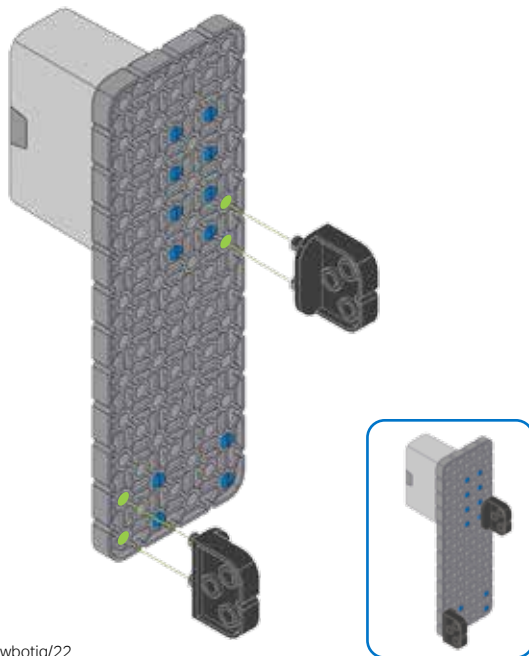
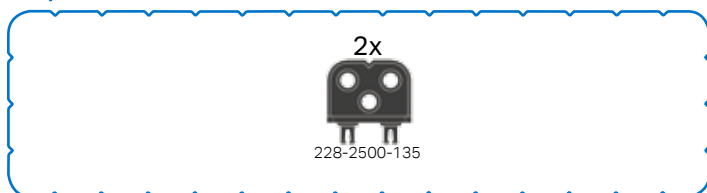
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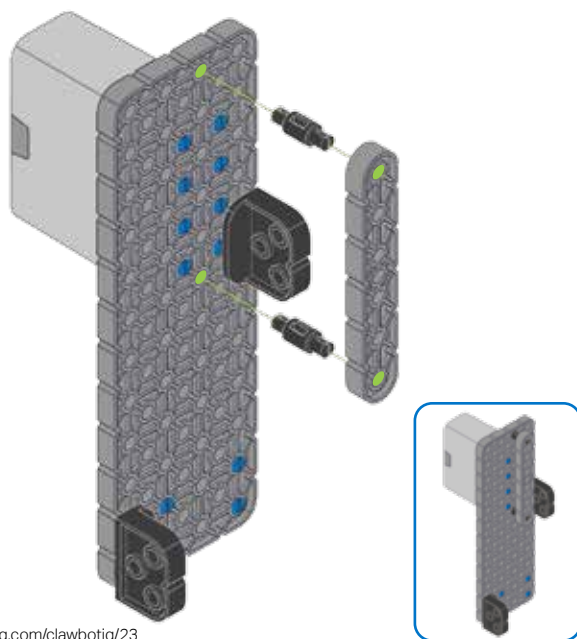
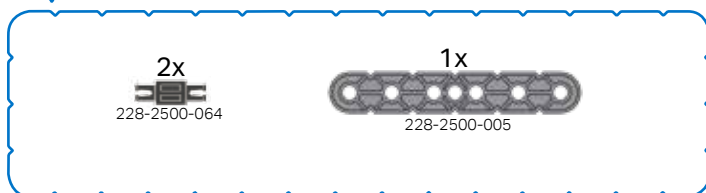
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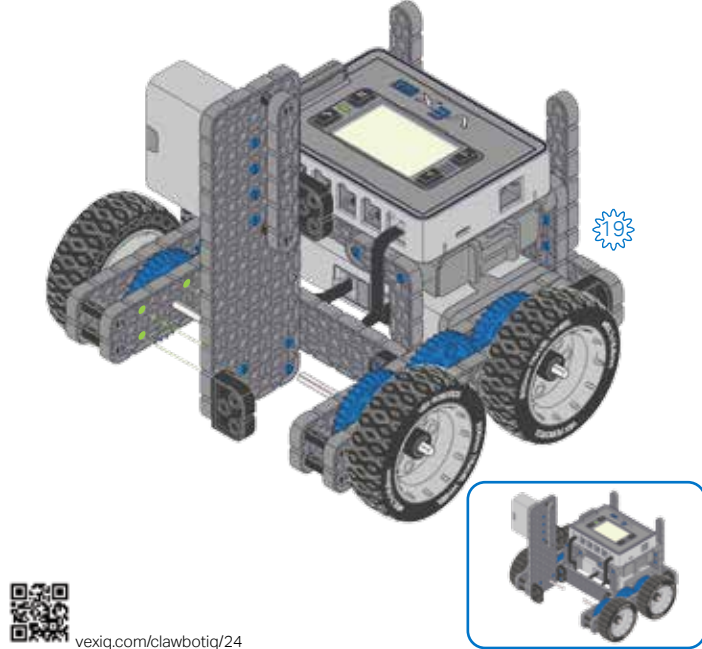
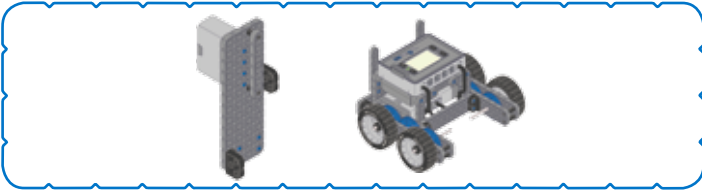
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23



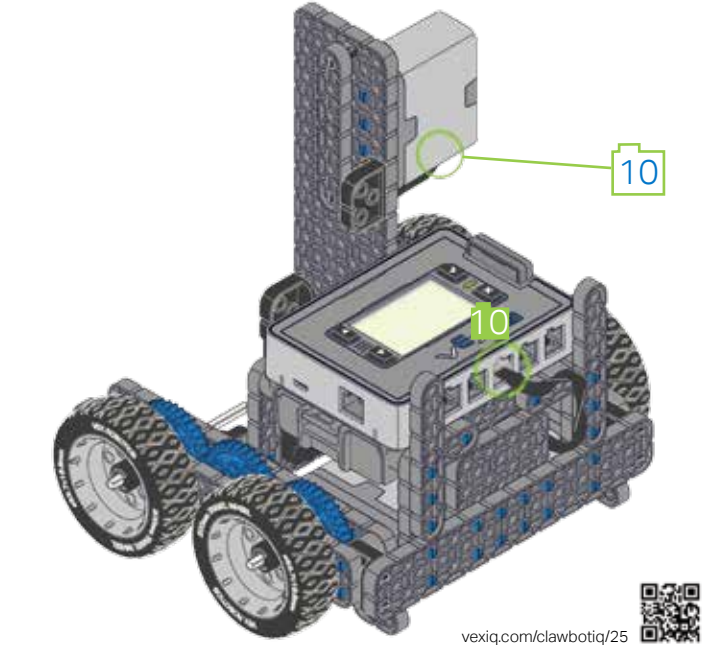
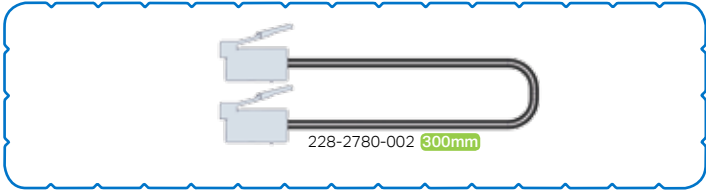
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24



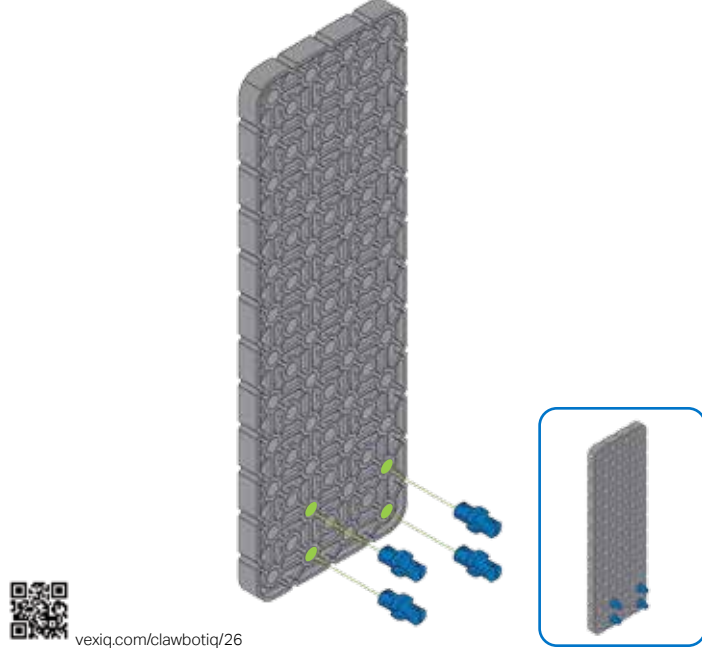
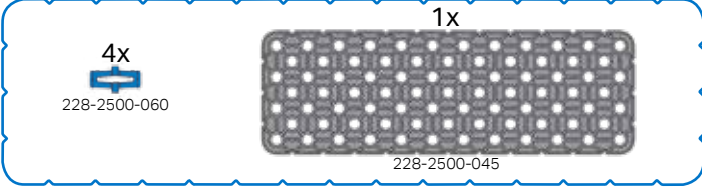
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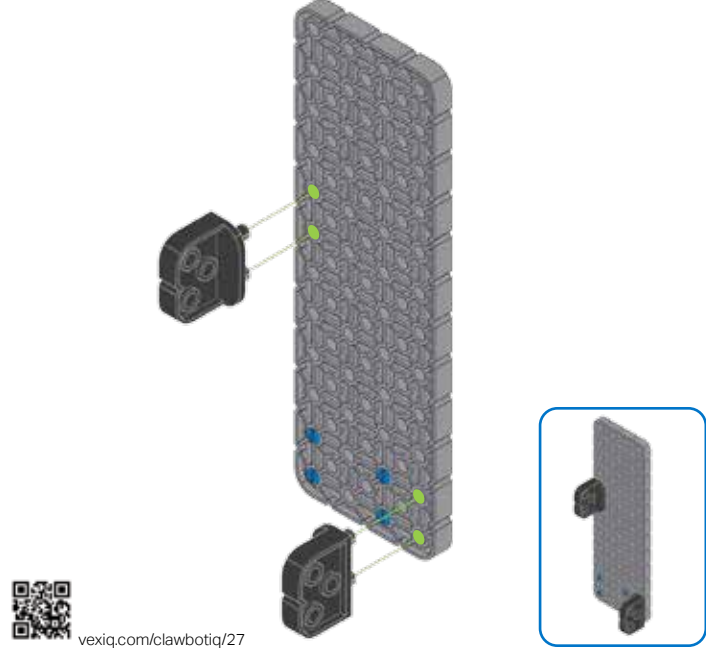
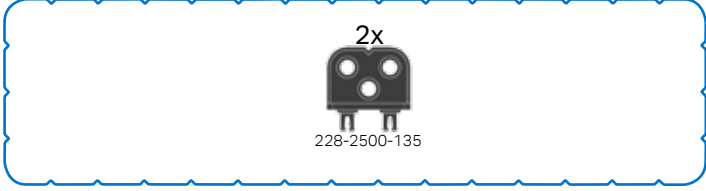
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26



vexiq.com/clawbotiq/26

27

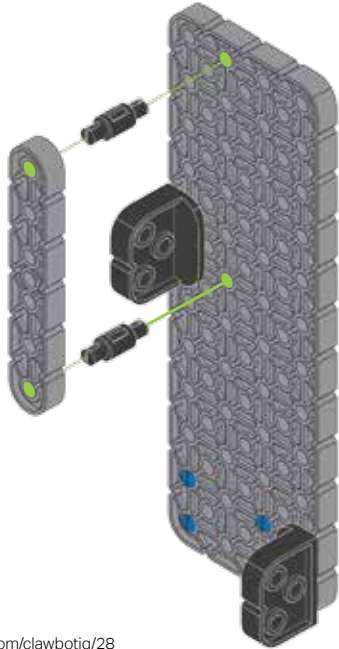


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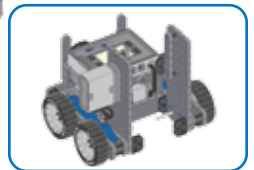
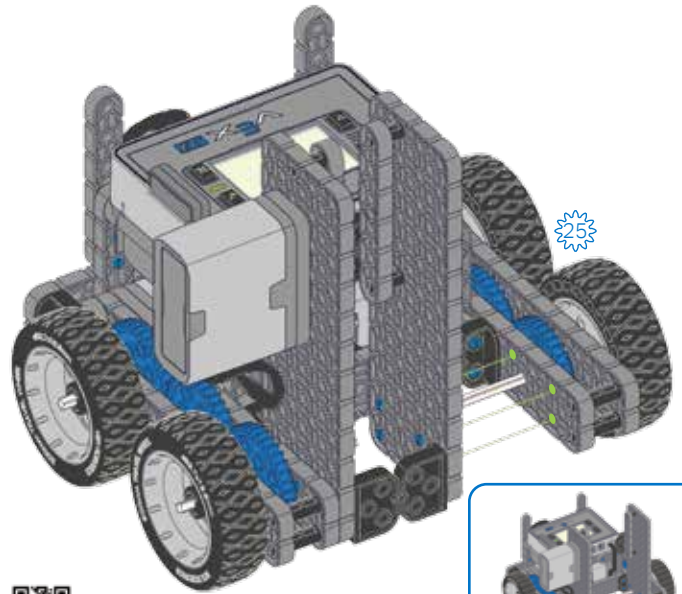
2x
228-2500-064

1x
228-2500-005



vexiq.com/clawbotiq/28

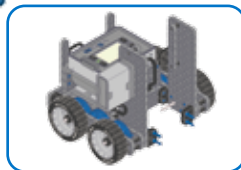
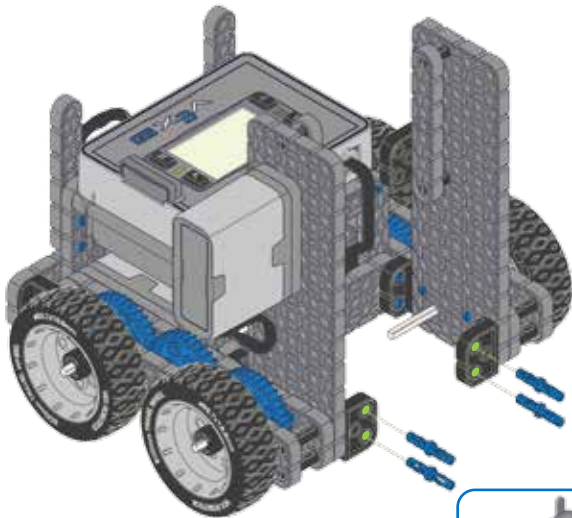
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30

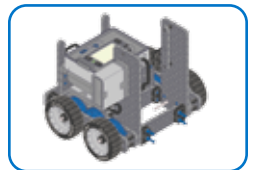
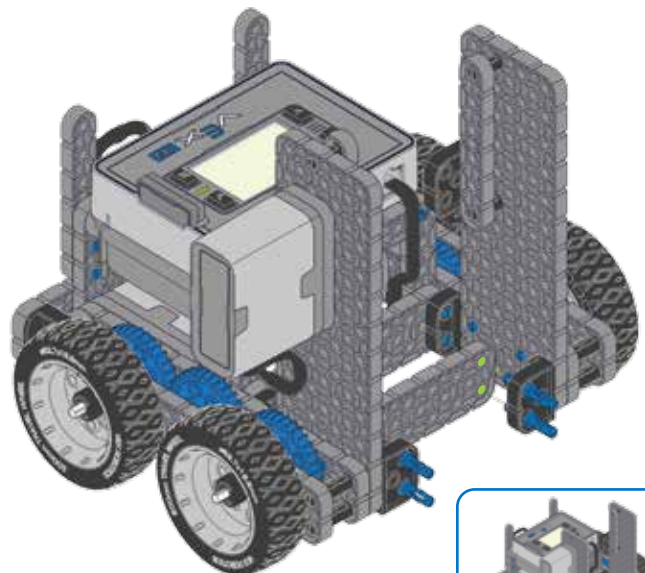
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228-2500-062



vexiq.com/clawbotiq/30

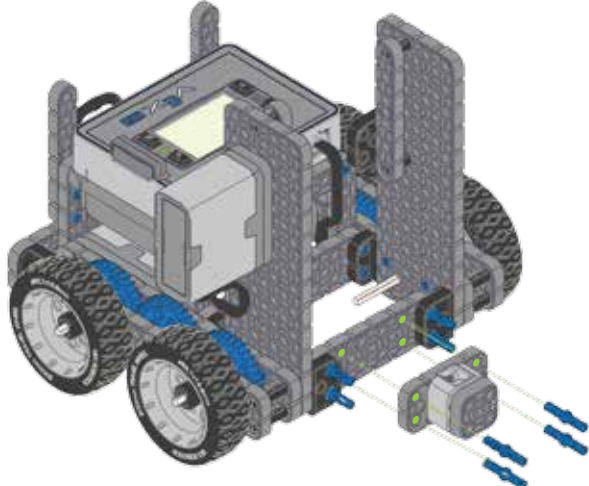
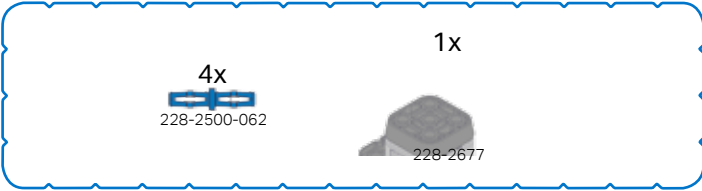
31

1x
228-2500-021



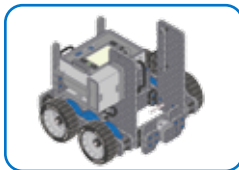
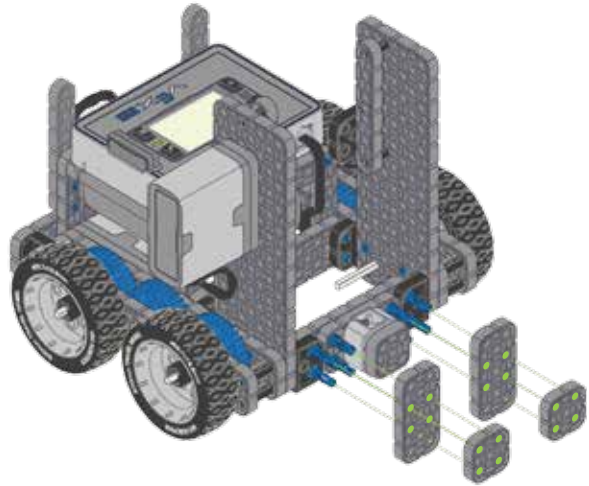
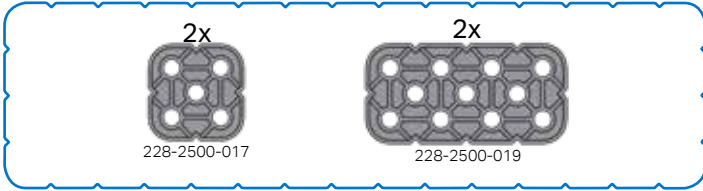
vexiq.com/clawbotiq/31

32



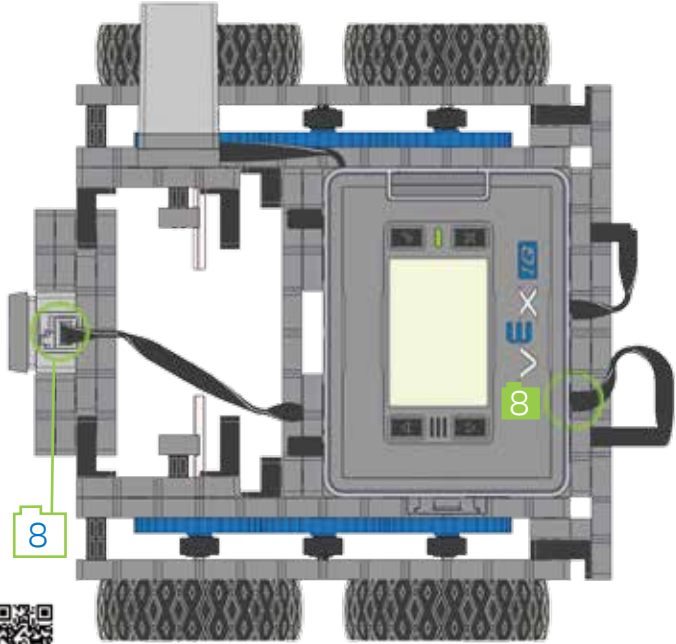
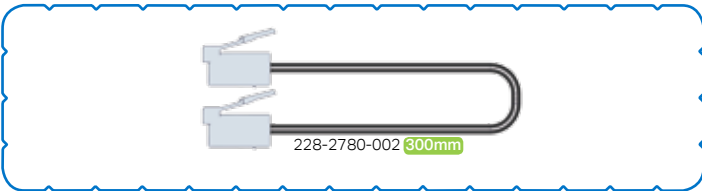
vexiq.com/clawbotiq/32

33



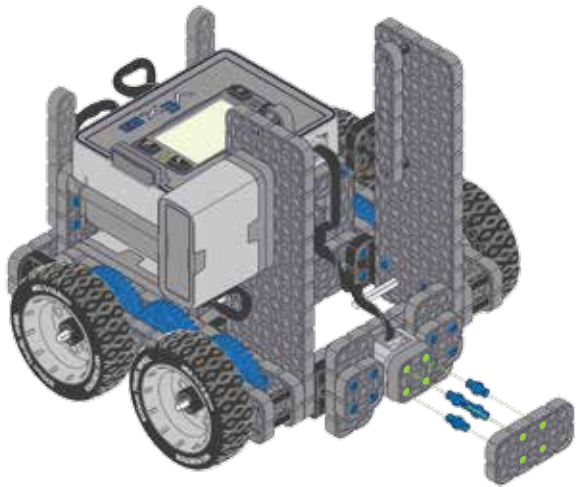
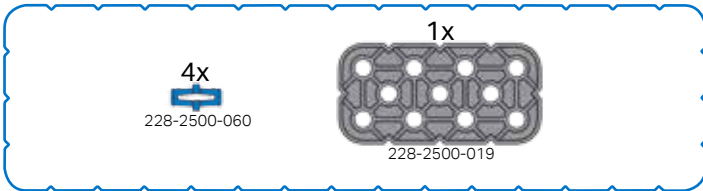
vexiq.com/clawbotiq/33

34



vexiq.com/clawbotiq/34

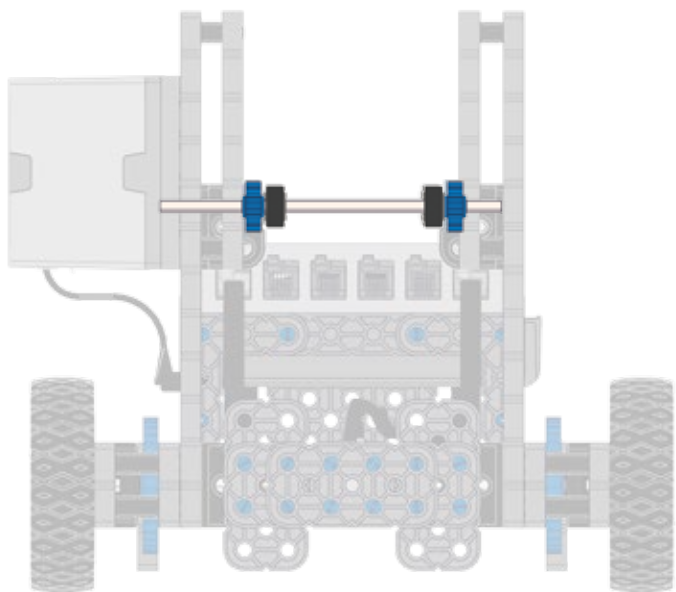
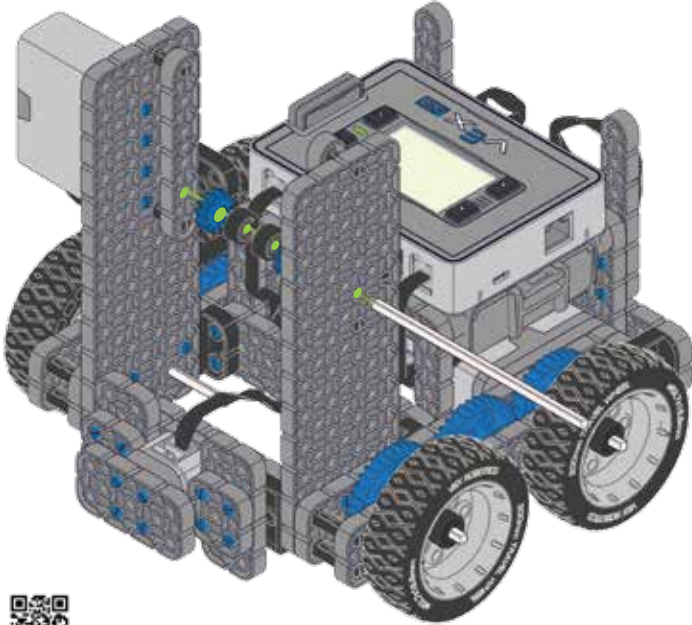
35



vexiq.com/clawbotiq/35

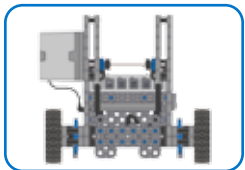
36

2x 228-250-143 2x 228-2500-213 1x 228-2500-124 (8xP)



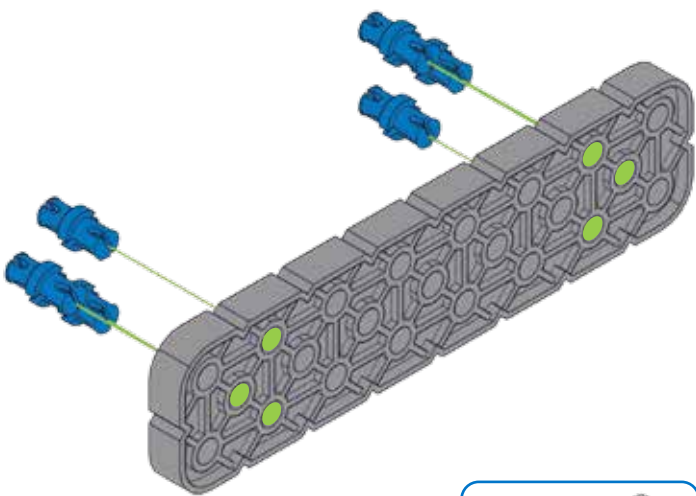
vexiq.com/clawbotiq/36

1:1



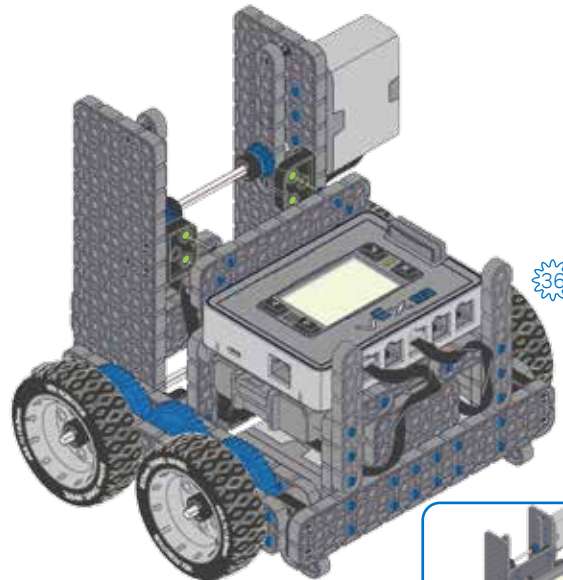
37

6x 228-2500-060 1x 228-2500-023



vexiq.com/clawbotiq/37

38



vexiq.com/clawbotiq/38

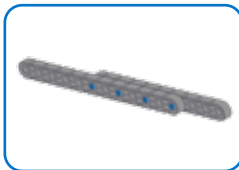
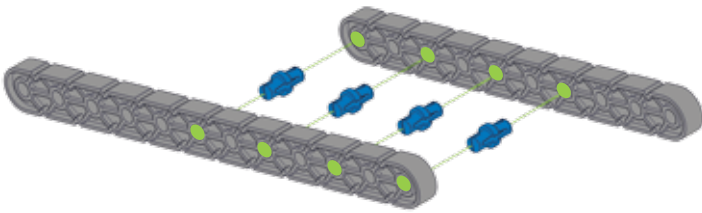


39

4x
228-2500-060

1x
228-2500-011

1x
228-2500-009



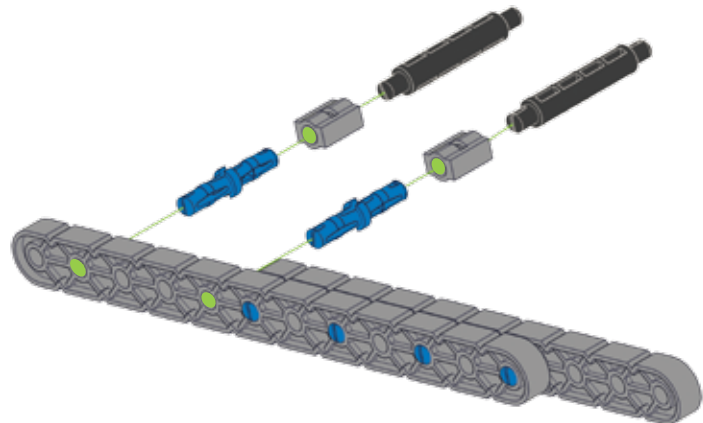
vexiq.com/clawbotiq/39

40

2x
228-2500-062

2x
228-2500-170

2x
228-2500-067

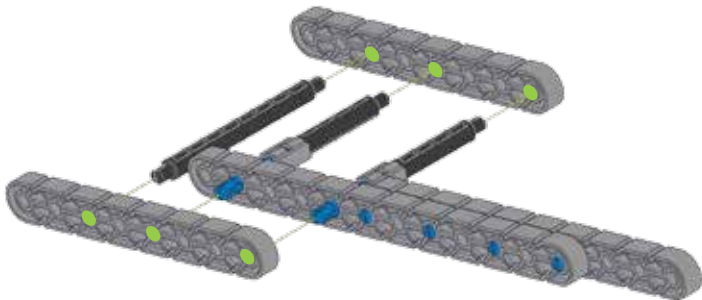


vexiq.com/clawbotiq/40

41

2x
228-2500-007

1x
228-2500-070



vexiq.com/clawbotiq/41

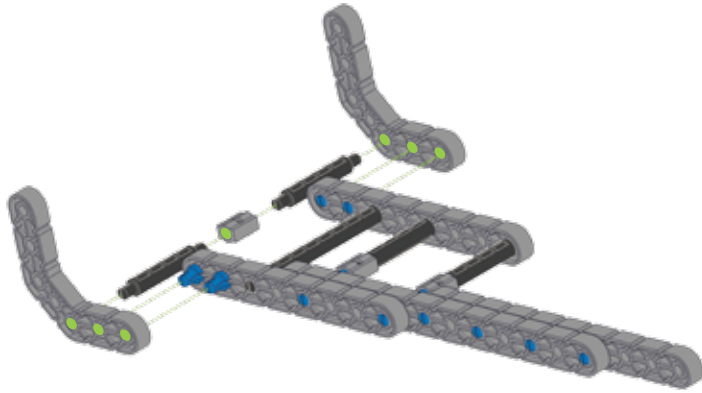
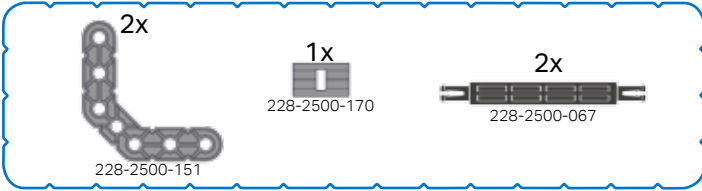
42

4x
228-2500-060



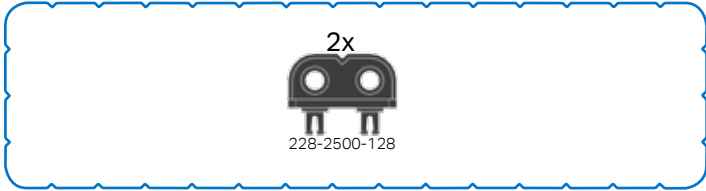
vexiq.com/clawbotiq/42

43



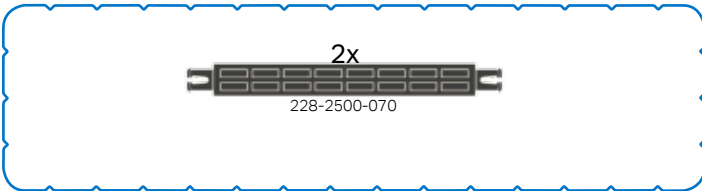
vexiq.com/clawbotiq/43

44



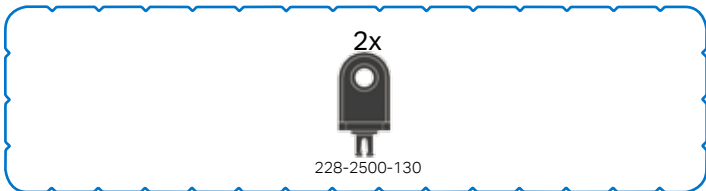
vexiq.com/clawbotiq/44

45



vexiq.com/clawbotiq/45

46



vexiq.com/clawbotiq/46

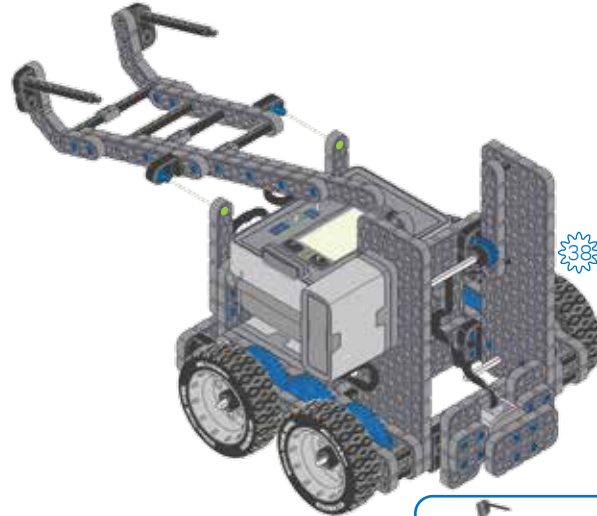
47

2x
228-2500-060



vexiq.com/clawbotiq/47

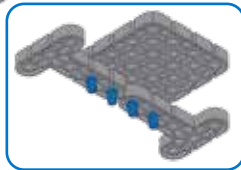
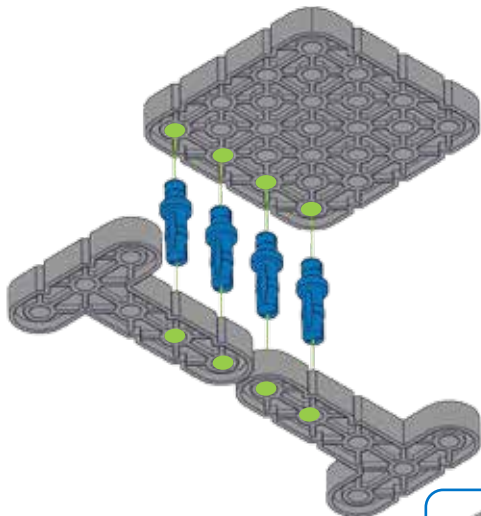
48



vexiq.com/clawbotiq/48

49

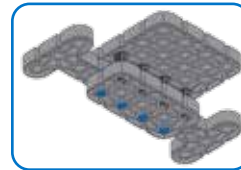
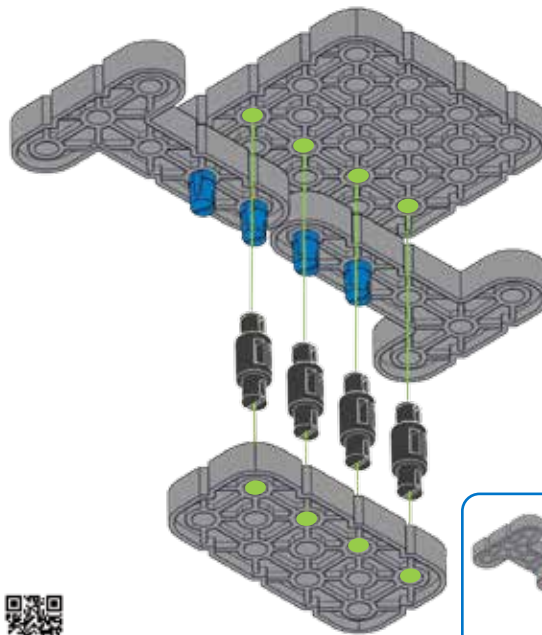
4x 228-2500-061
1x 228-2500-040
2x 228-2500-144



vexiq.com/clawbotiq/49

50

4x 228-2500-064
1x 228-2500-019



vexiq.com/clawbotiq/50

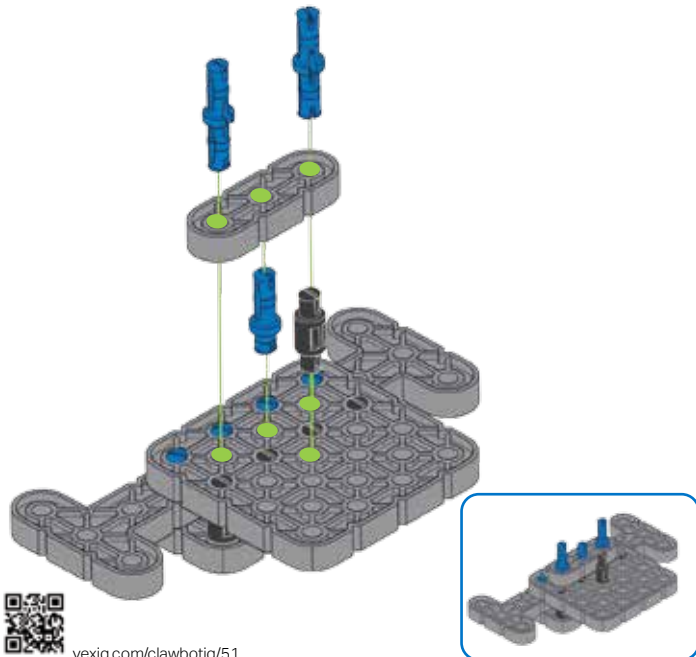
51

1x
228-2500-061

2x
228-2500-062

1x
228-2500-064

1x
228-2500-002

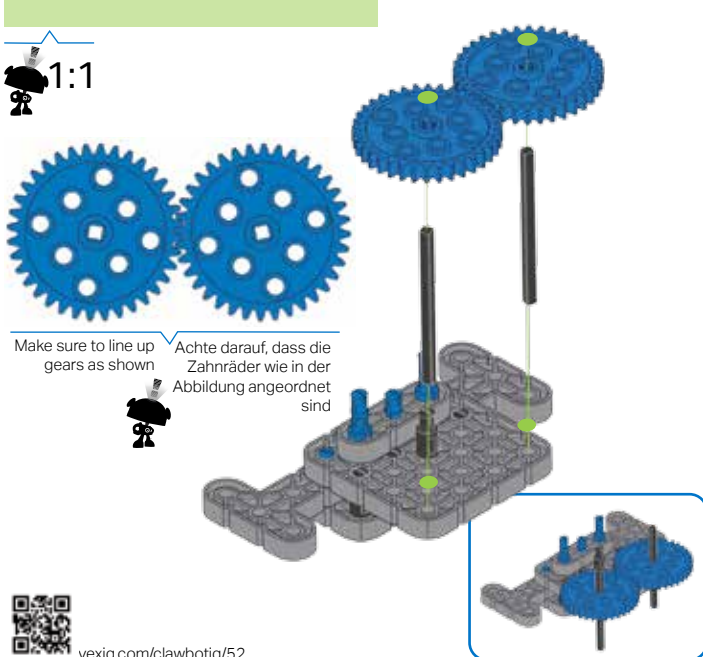


vexiq.com/clawbotiq/51

52

2x
228-2500-214

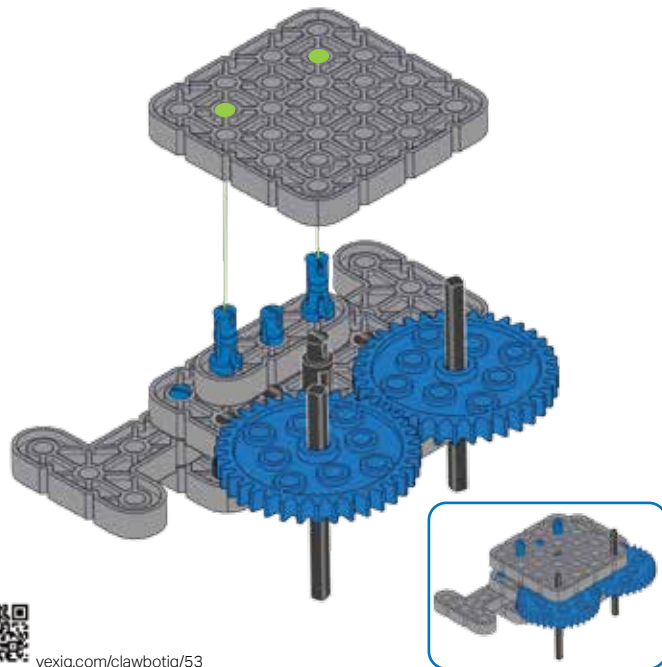
2x
228-2500-076 4xP



vexiq.com/clawbotiq/52

53

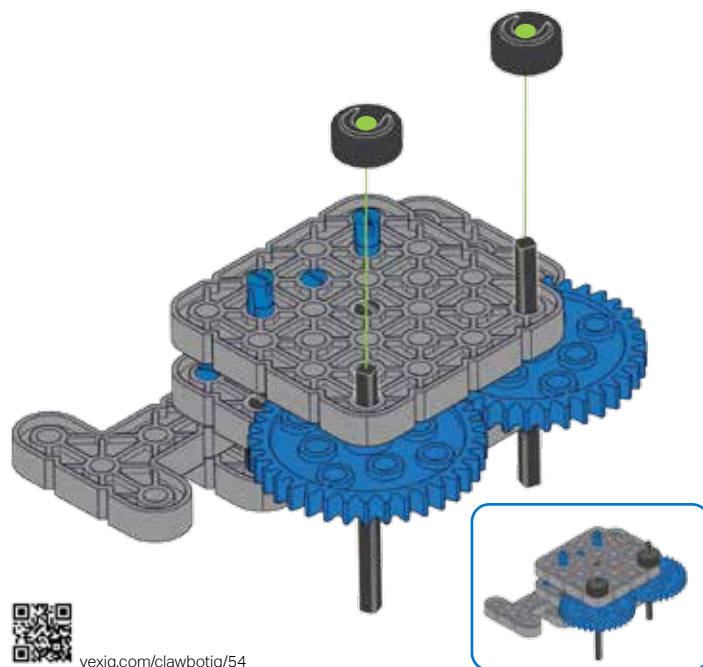
1x
228-2500-040



vexiq.com/clawbotiq/53

54

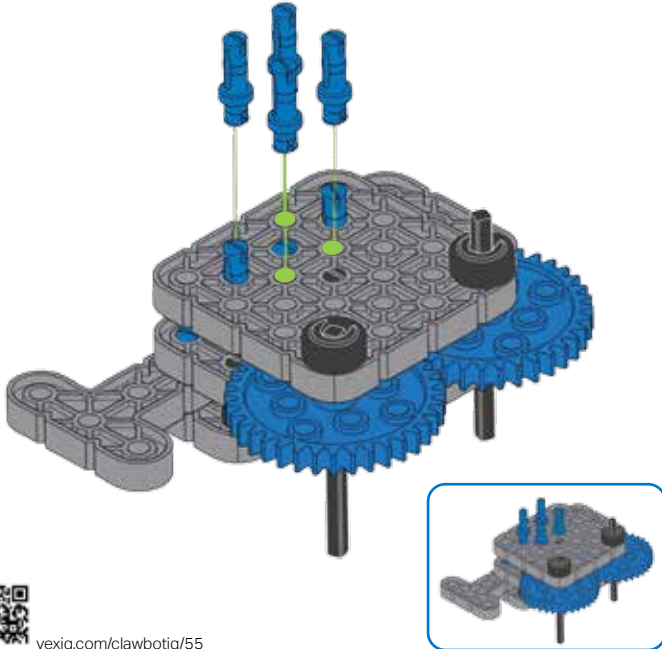
2x
228-2500-143



vexiq.com/clawbotiq/54

55

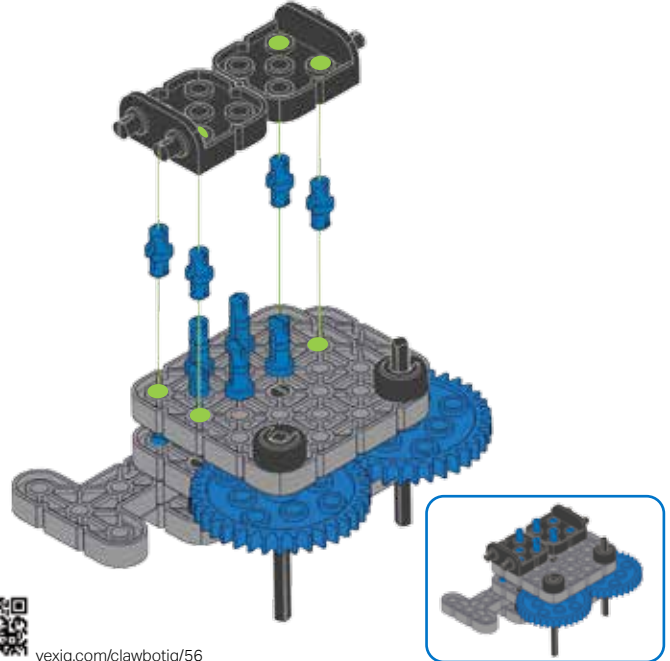
4x
228-2500-061



vexiq.com/clawbotiq/55

56

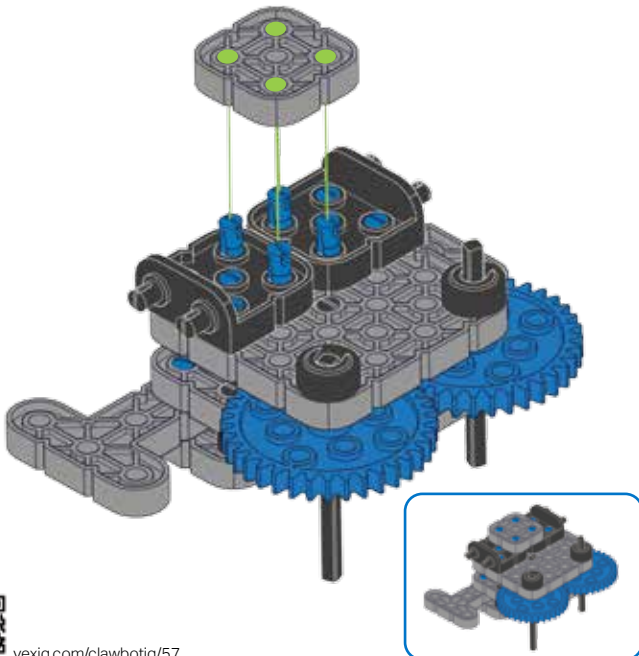
4x 228-2500-060
2x 228-2500-134



vexiq.com/clawbotiq/56

57

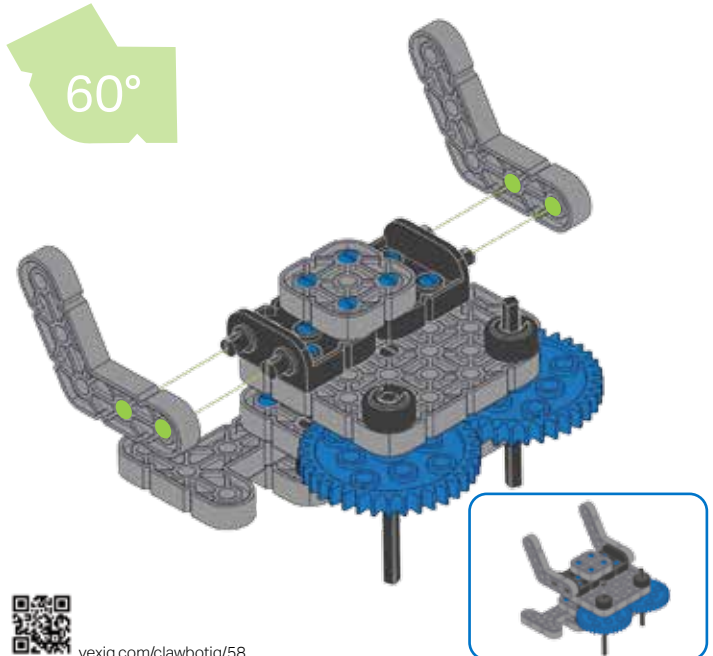
1x
228-2500-017



vexiq.com/clawbotiq/57

58

2x
228-2500-149 (60°)

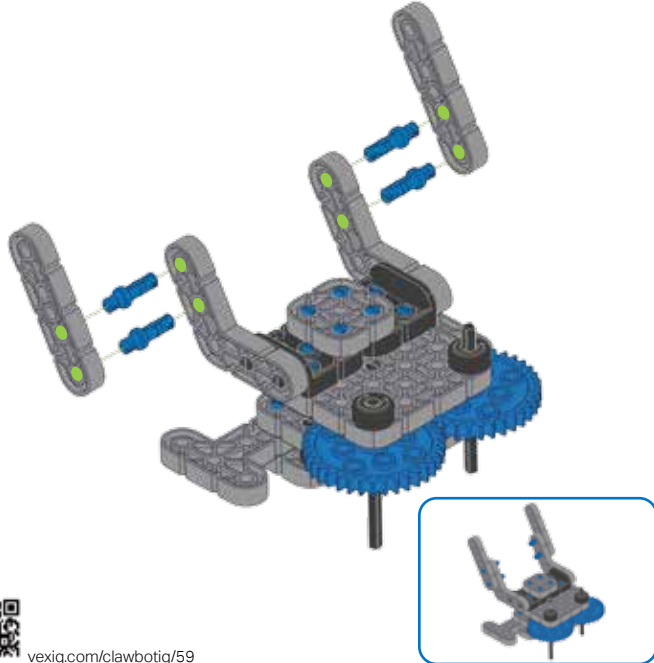


vexiq.com/clawbotiq/58

59

4x
228-2500-061

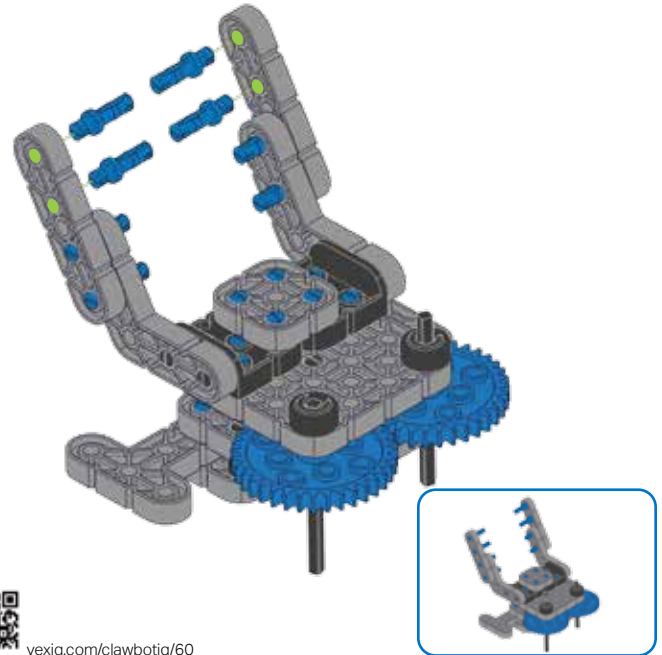
2x
228-2500-003



 vexiq.com/clawbotiq/59

60

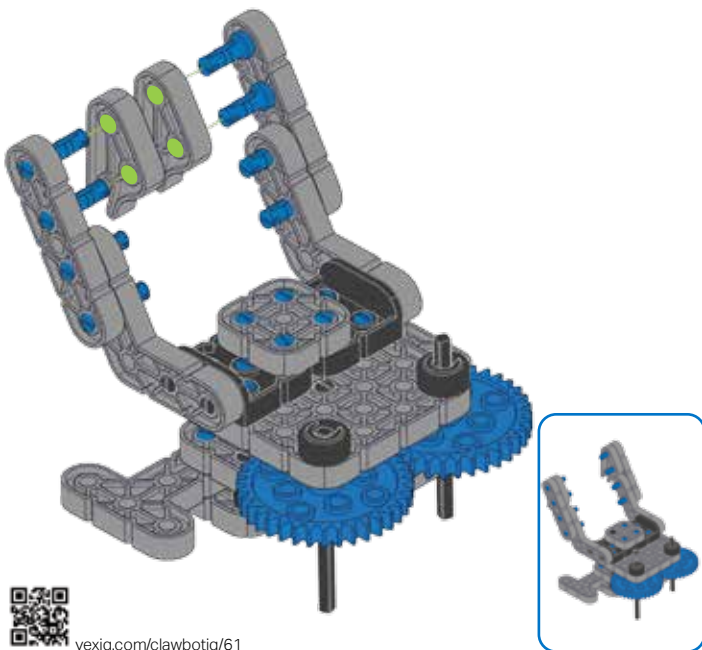
4x
228-2500-061



 vexiq.com/clawbotiq/60

61

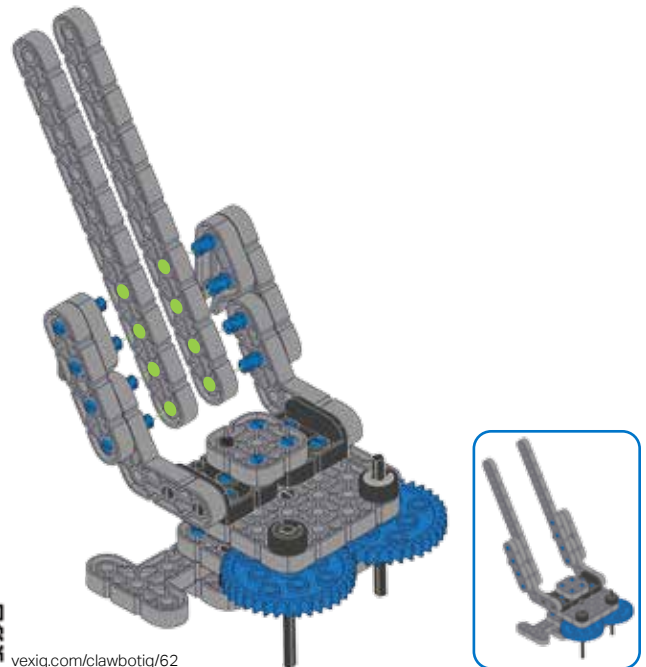
2x
228-2500-157



 vexiq.com/clawbotiq/61

62

2x
228-2500-009

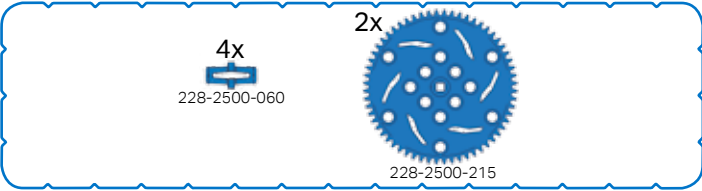
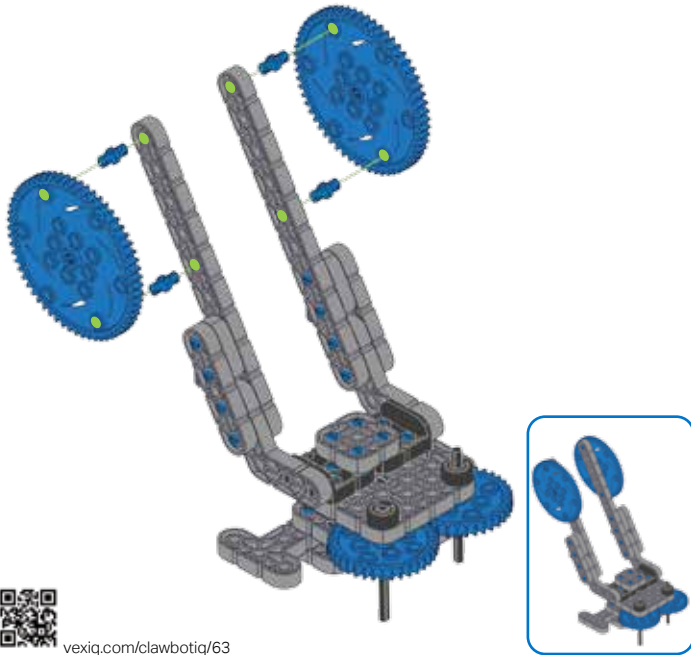


 vexiq.com/clawbotiq/62

63

4x
228-2500-060

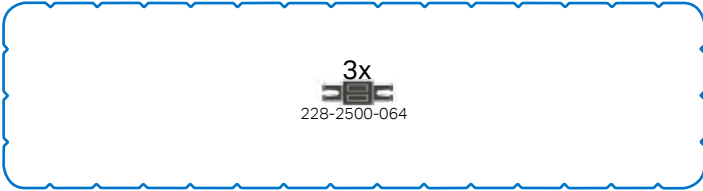
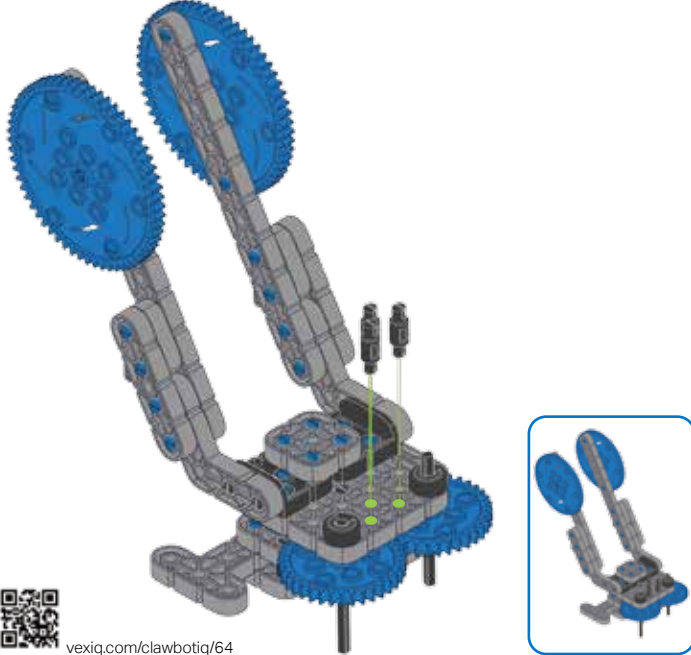
2x
228-2500-215

vexiq.com/clawbotiq/63

64

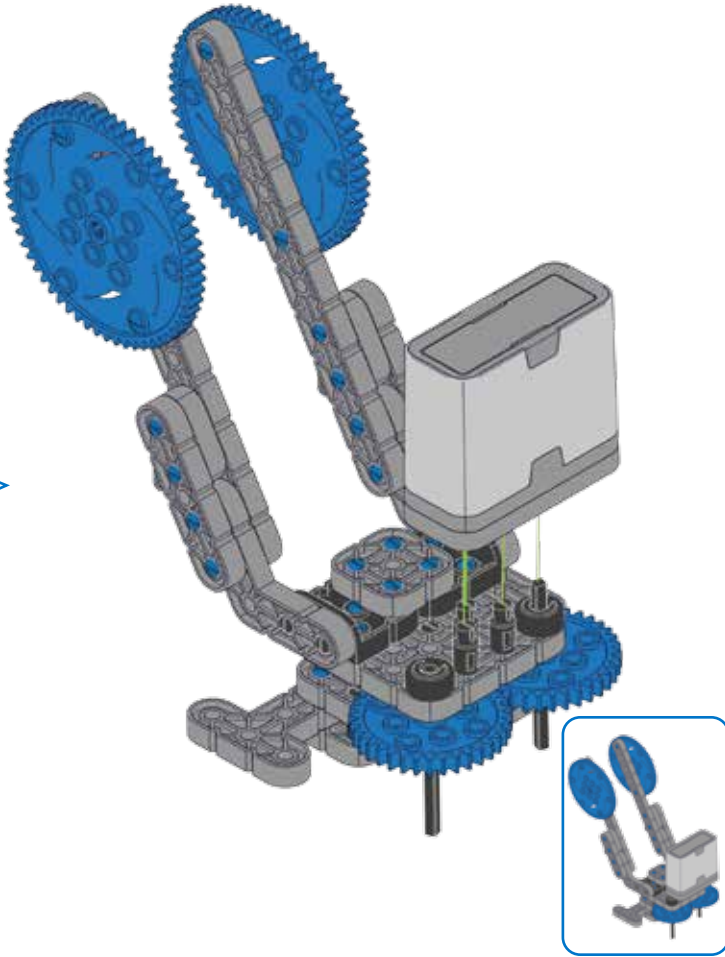
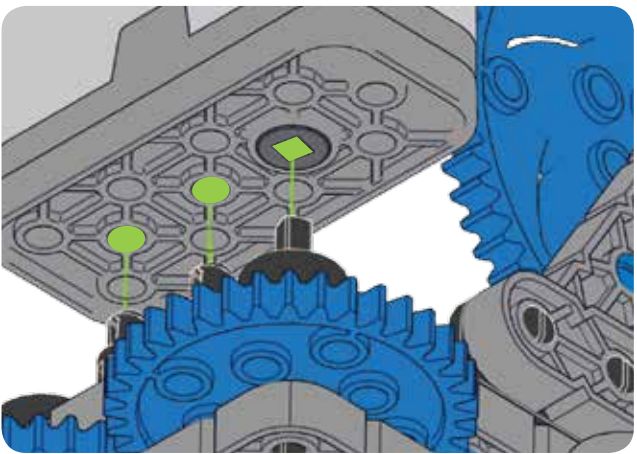
3x
228-2500-064

vexiq.com/clawbotiq/64

65

1x
228-2560

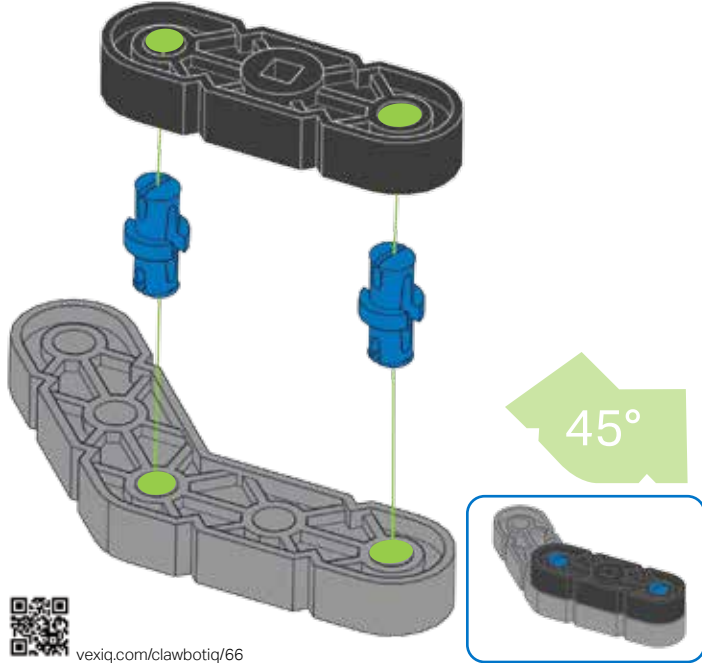
vexiq.com/clawbotiq/65

66

1x 228-2500-148 45°

2x 228-2500-060

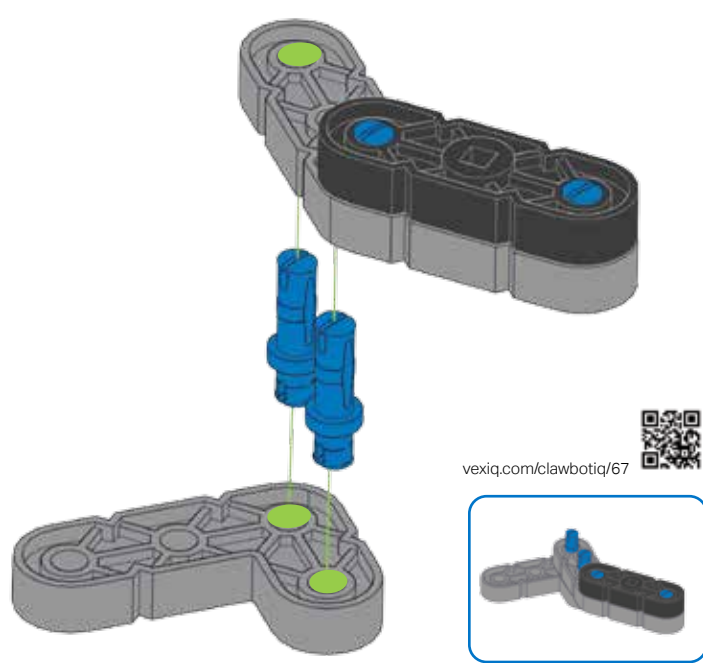
1x 228-2500-141



67

1x 228-2500-145

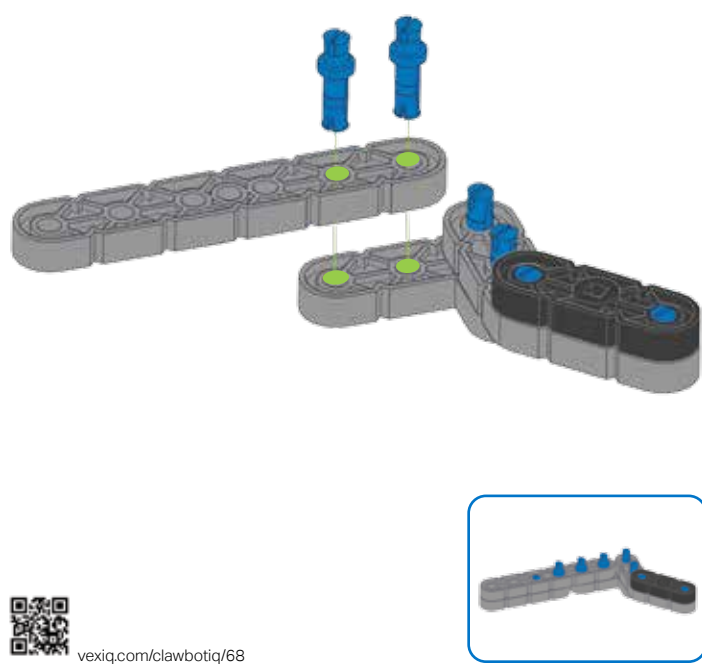
2x 228-2500-061



68

2x 228-2500-061

1x 228-2500-005

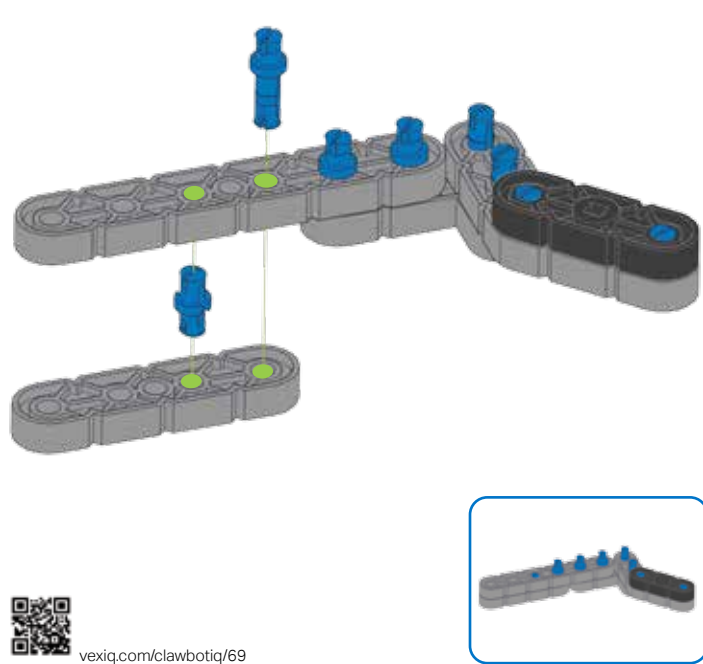


69

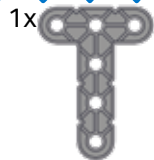
1x 228-2500-060

1x 228-2500-061

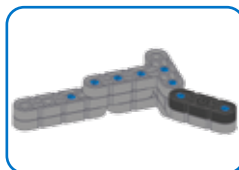
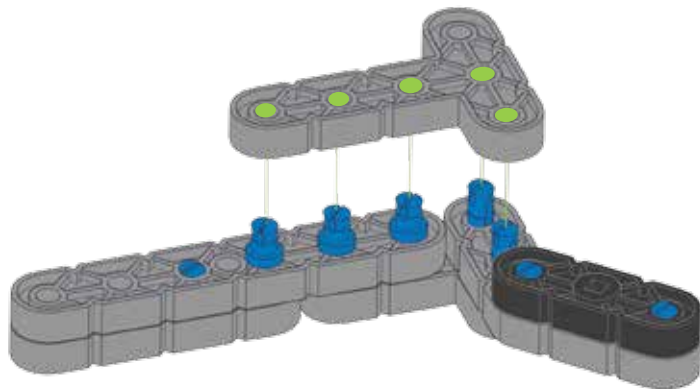
1x 228-2500-003



70

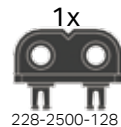


228-2500-144

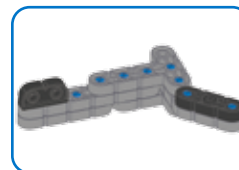
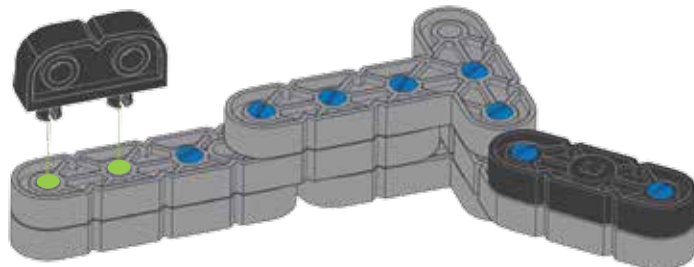


vexiq.com/clawbotiq/70

71

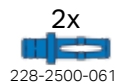


228-2500-128

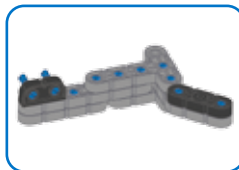
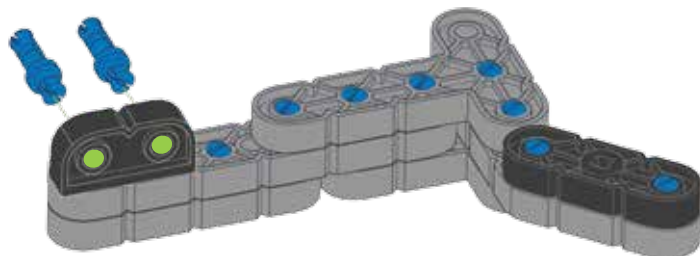


vexiq.com/clawbotiq/71

72



228-2500-061

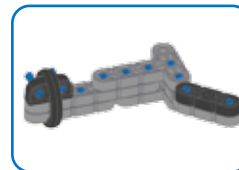


vexiq.com/clawbotiq/72

73



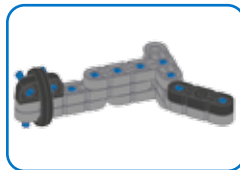
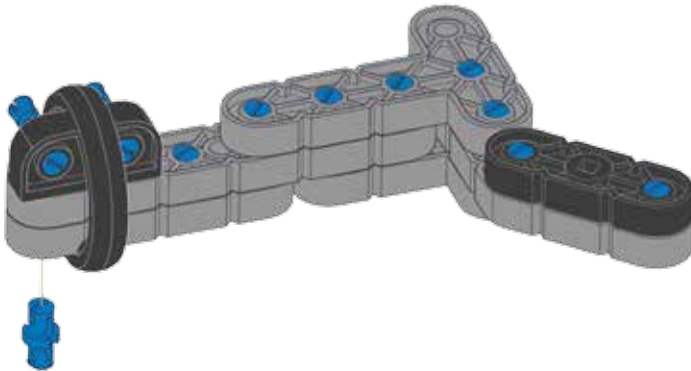
228-2500-207



vexiq.com/clawbotiq/73

74

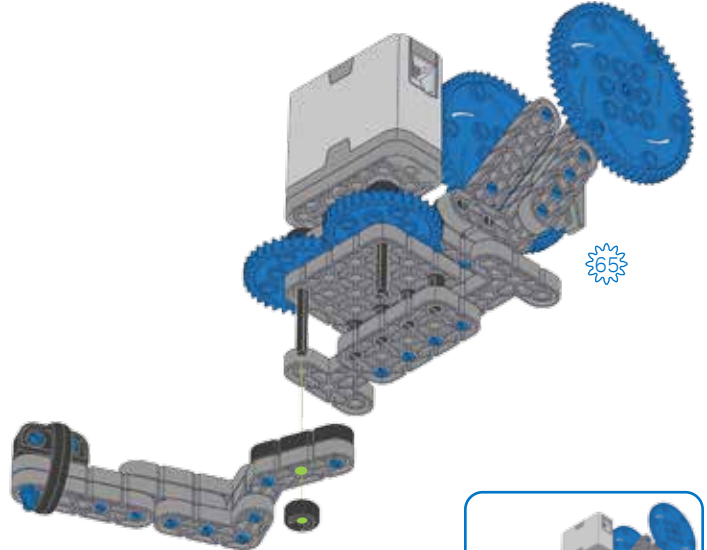
1x
228-2500-060



vexiq.com/clawbotiq/74

75

1x
228-2500-143



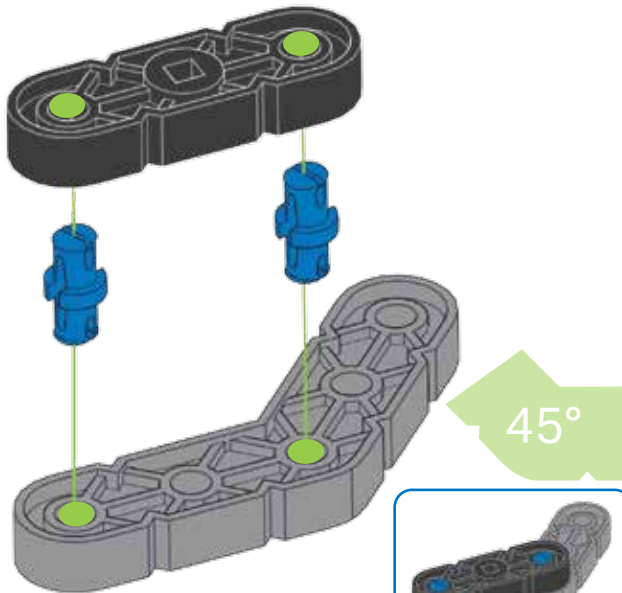
vexiq.com/clawbotiq/75

76

1x
228-2500-148 45°

2x
228-2500-060

1x
228-2500-141

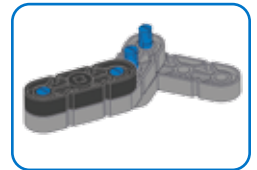
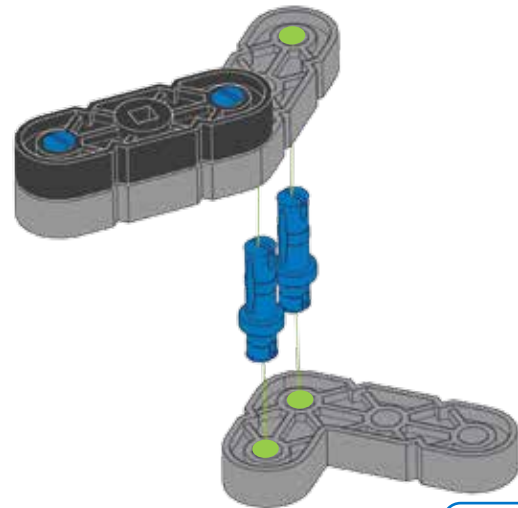


vexiq.com/clawbotiq/76

77

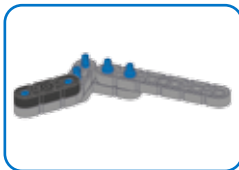
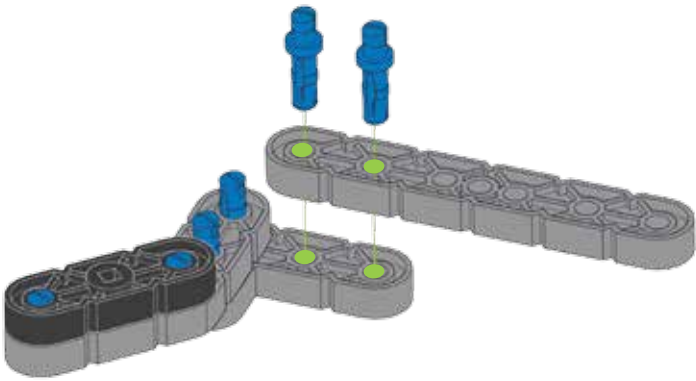
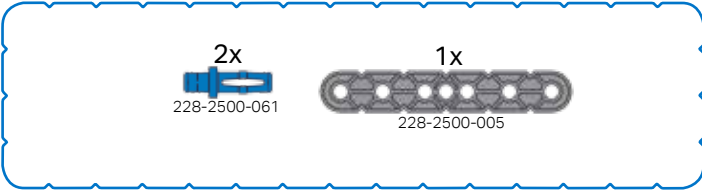
1x
228-2500-145

2x
228-2500-061

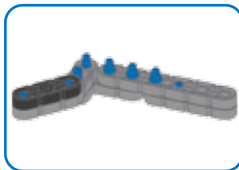
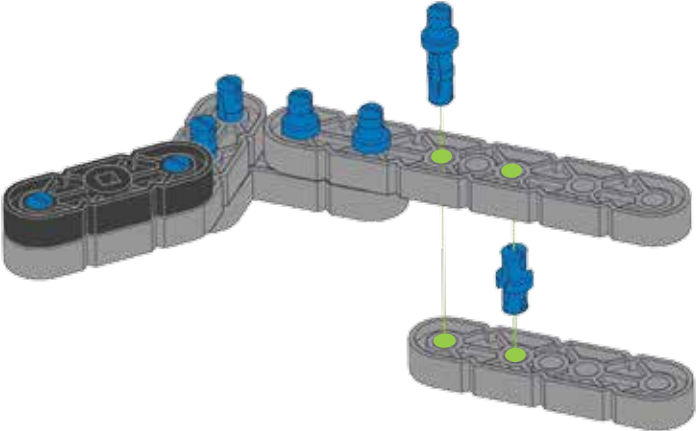
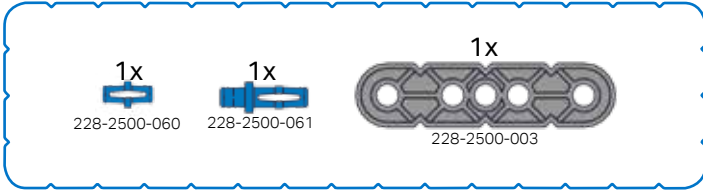


vexiq.com/clawbotiq/77

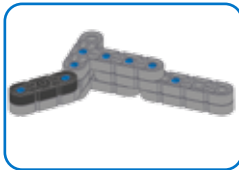
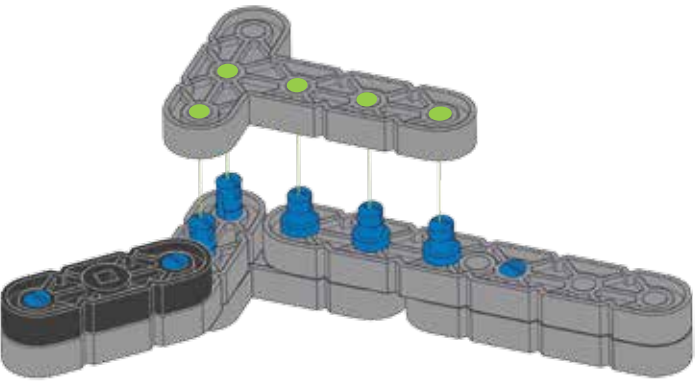
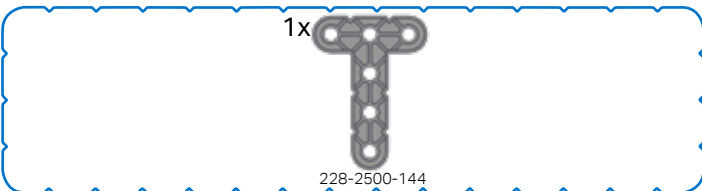
78



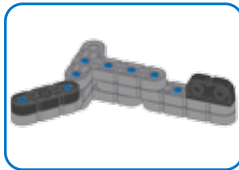
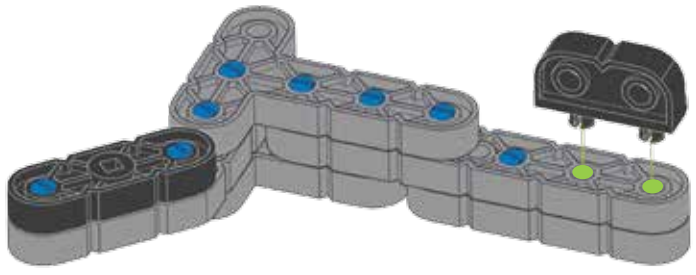
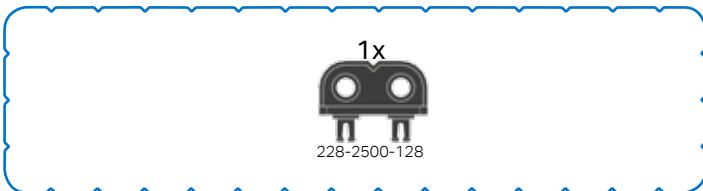
79



80

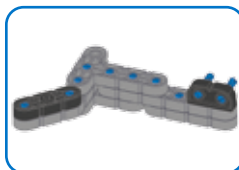
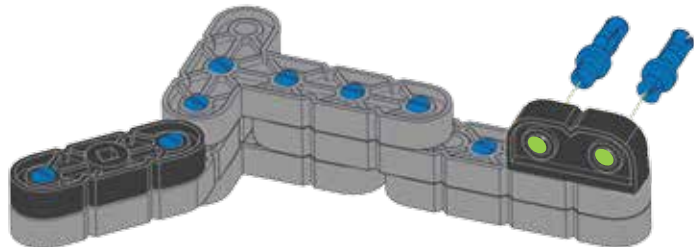


81



82

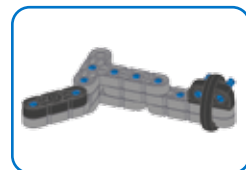
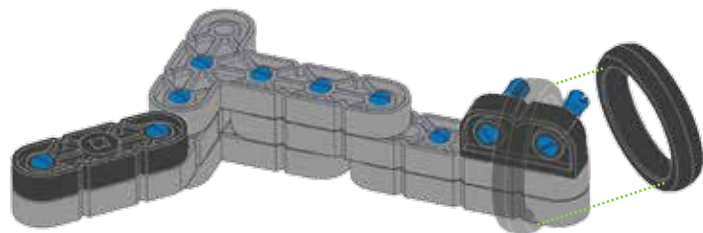
2x
228-2500-061



vexiq.com/clawbotiq/82

83

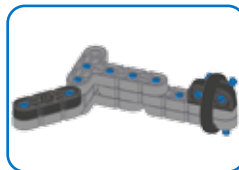
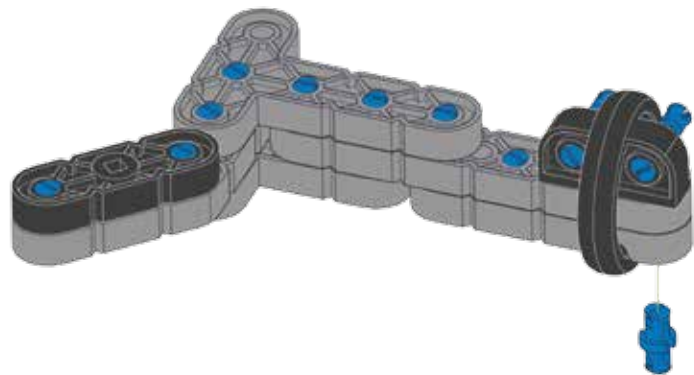
1x
228-2500-207



vexiq.com/clawbotiq/83

84

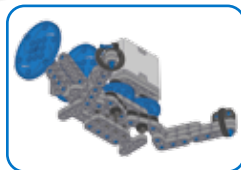
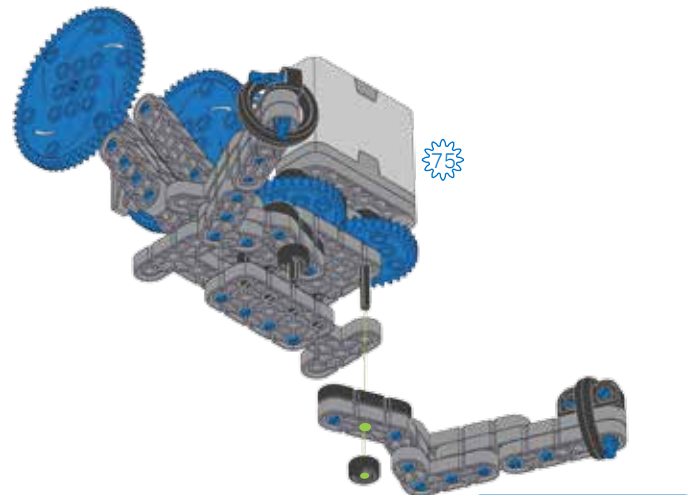
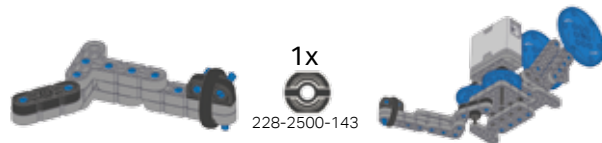
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228-2500-060



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85


1x
228-2500-143

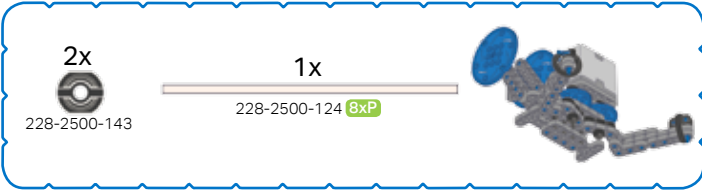
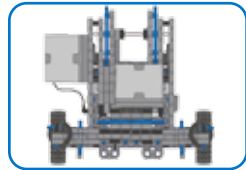
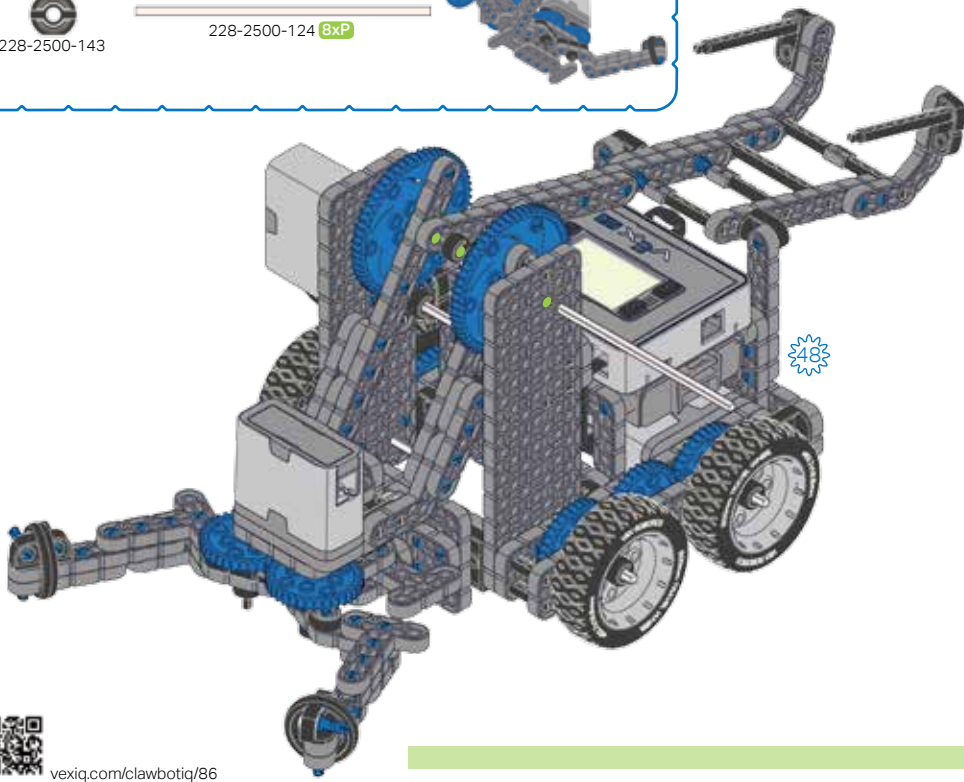
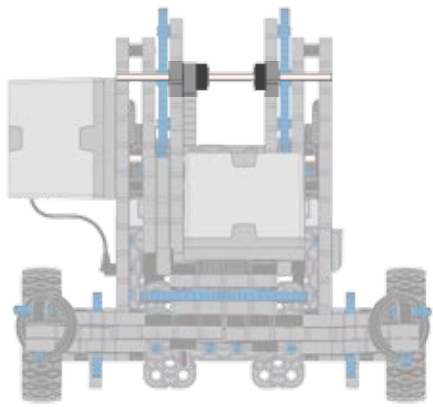


vexiq.com/clawbotiq/85

86

2x  228-2500-143


1x  228-2500-124 8xP

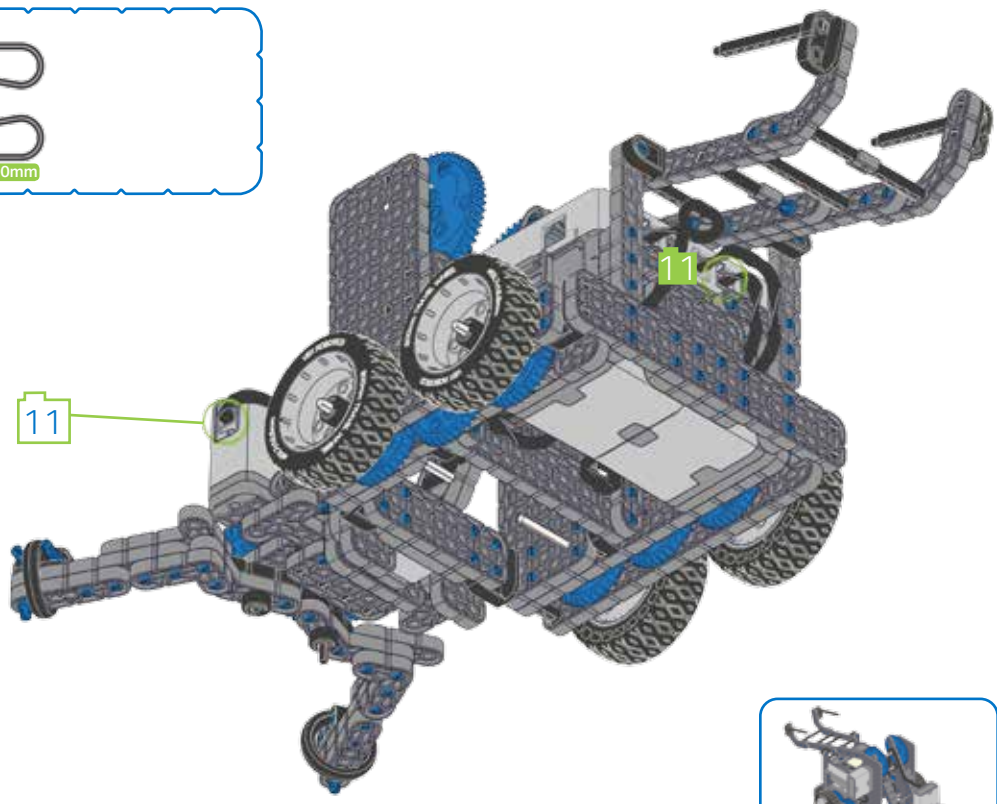
 vexiq.com/clawbotiq/86


 1:1

87



228-2780-004 600mm



6.1  For information on the Driver Control Program, see: Informationen zur Bedienung siehe Bedienungsanleitung:

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Clawbot IQ with Sensors

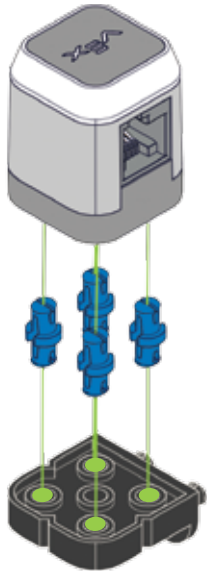
3 Clawbot IQ mit Sensoren

88

4x 228-2500-060

1x 228-2500-134

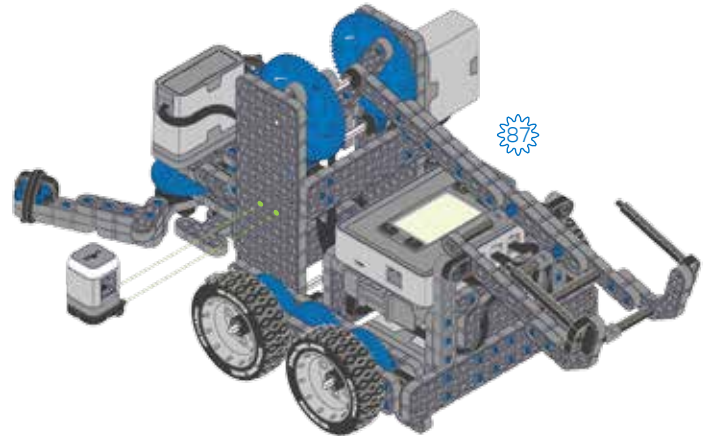
1x 228-3010



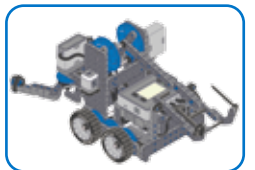
vexiq.com/clawbotiq/88

89

1x 228-3011



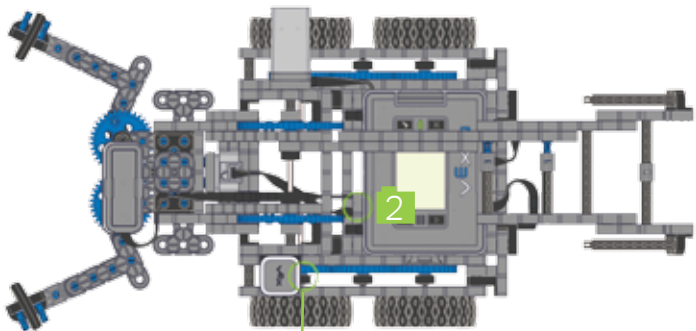
87



vexiq.com/clawbotiq/89

90

1x 228-2780-001 200mm



2

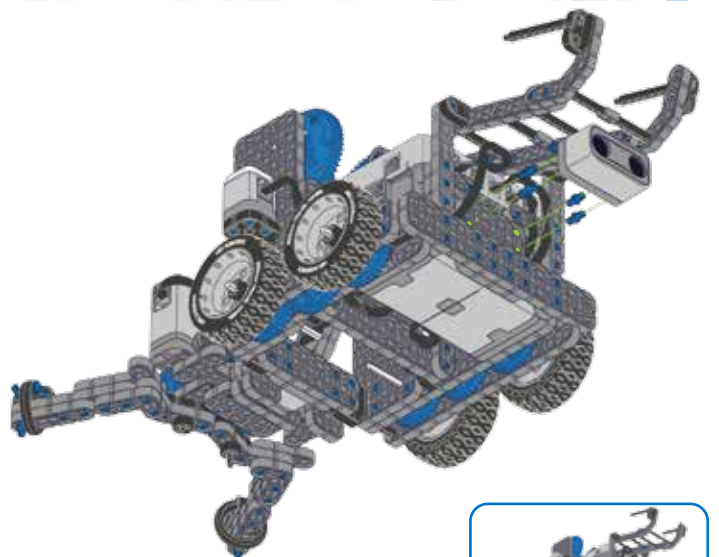


vexiq.com/clawbotiq/90

91

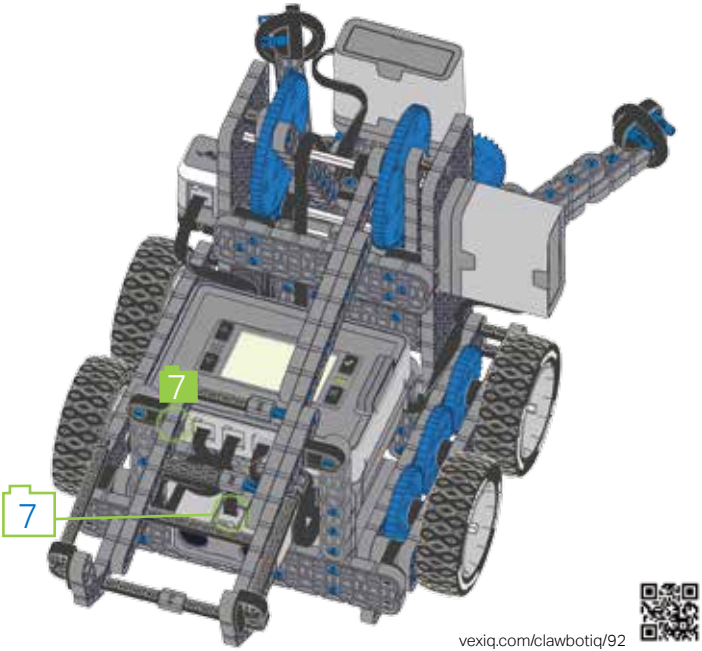
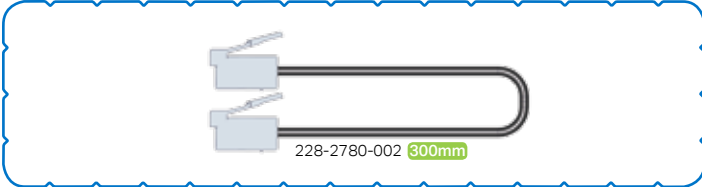
4x 228-2500-060

1x 228-3011

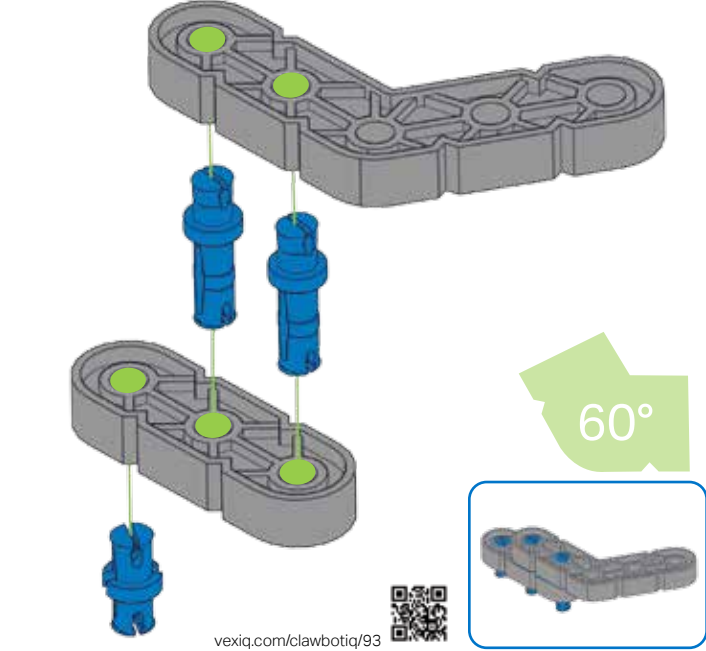
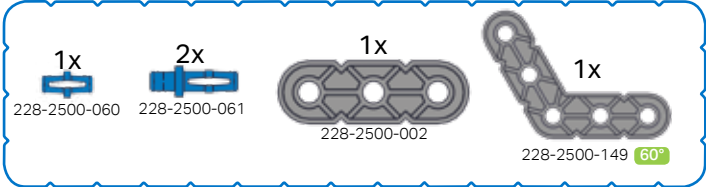


vexiq.com/clawbotiq/91

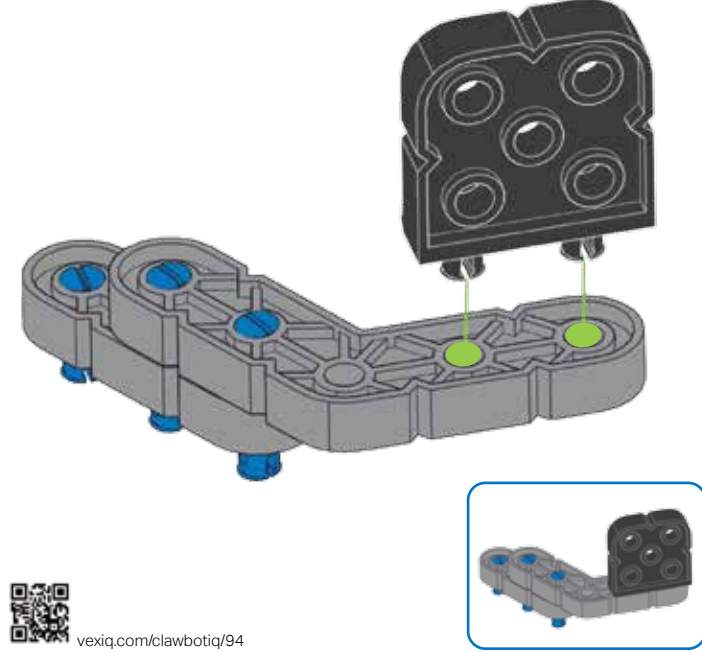
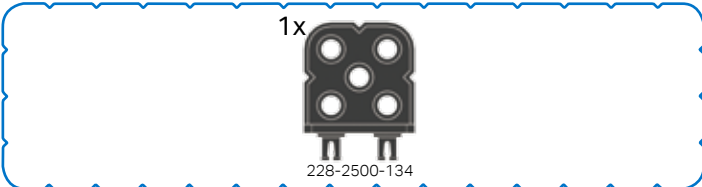
92



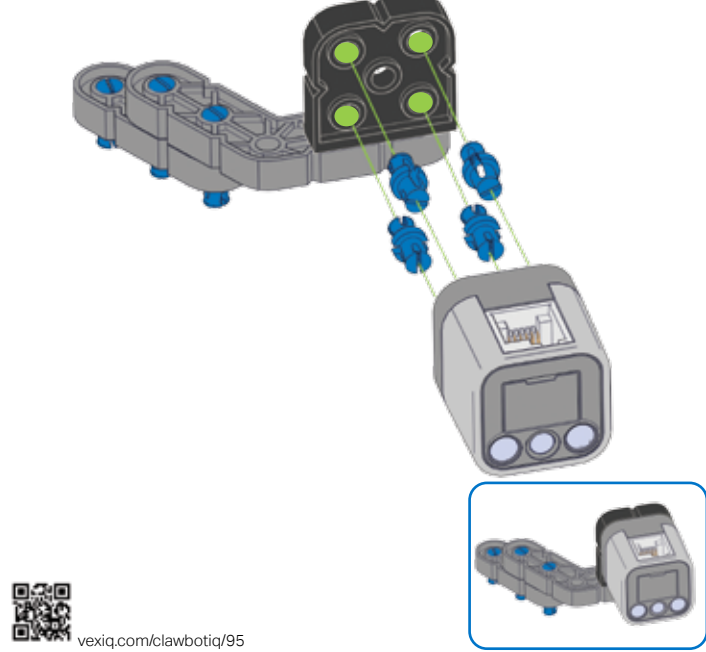
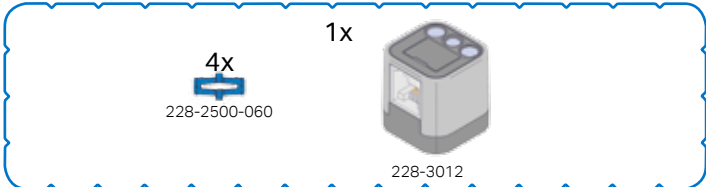
93



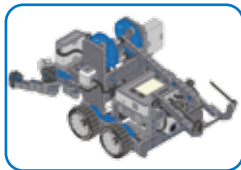
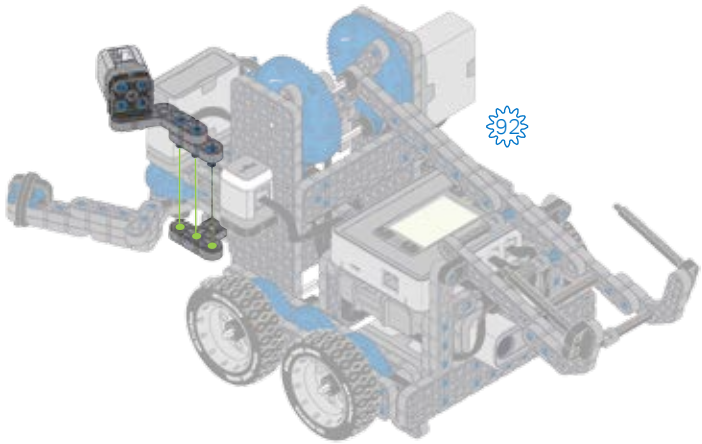
94



95

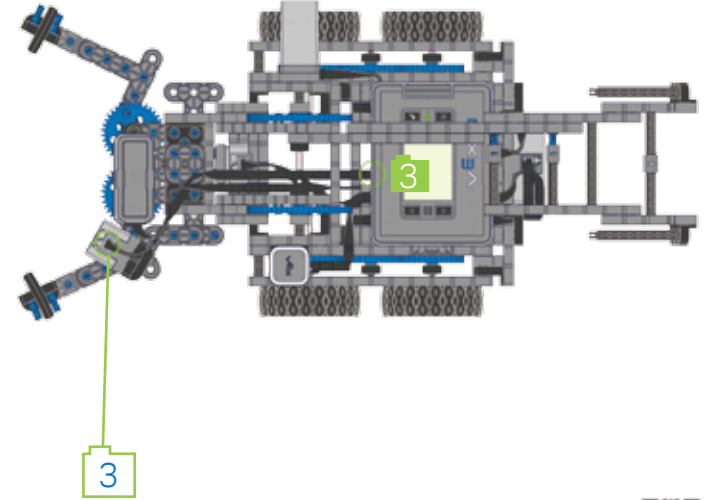
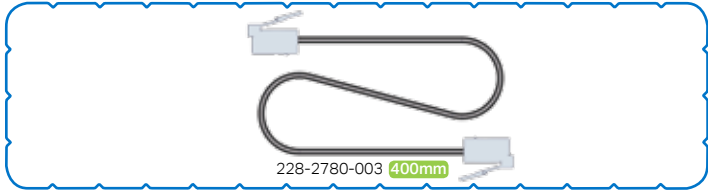


96



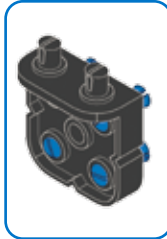
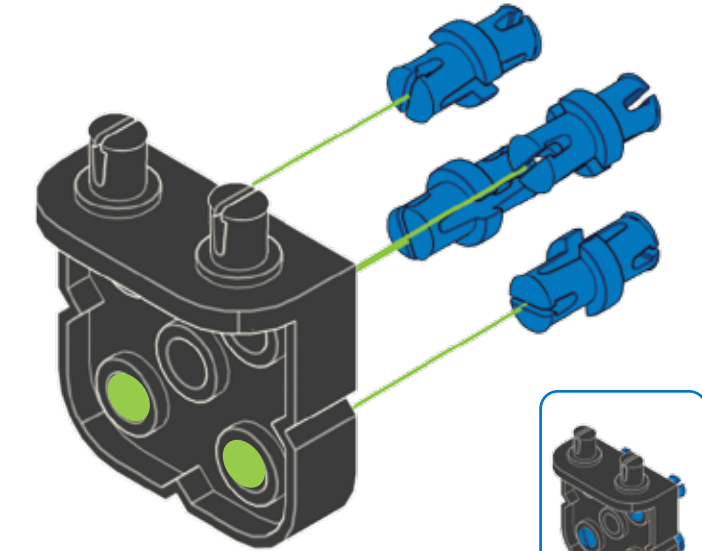
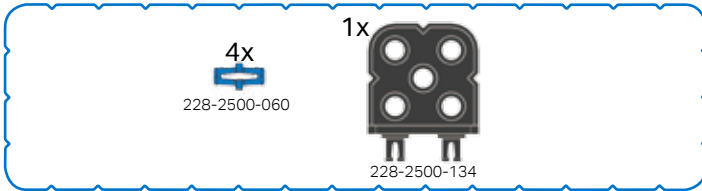
vexiq.com/clawbotiq/96

97



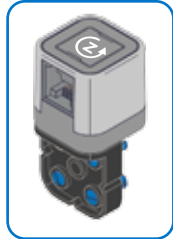
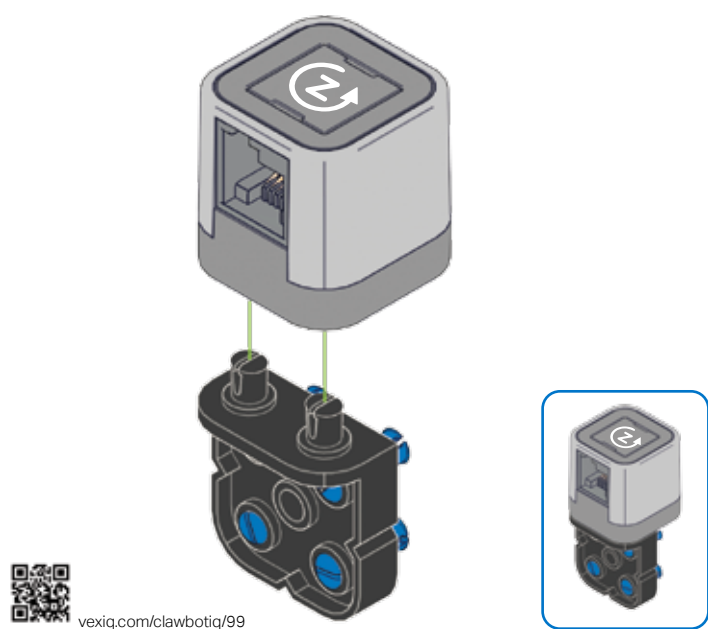
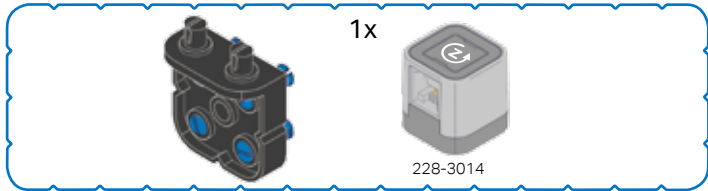
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98



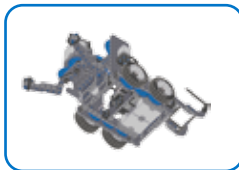
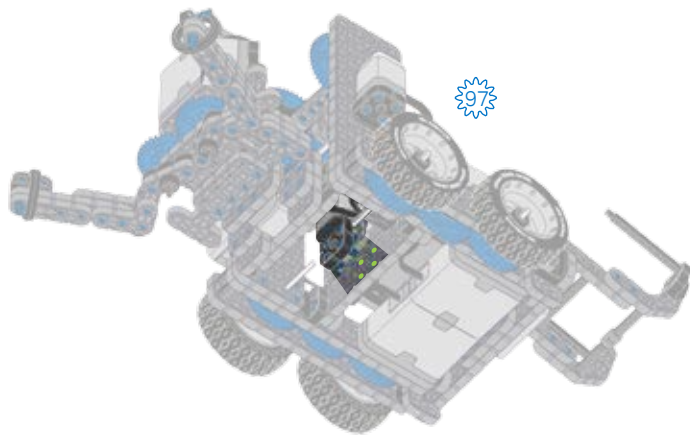
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99



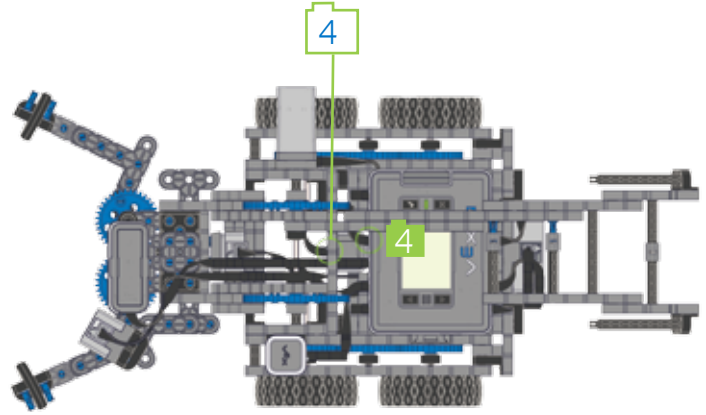
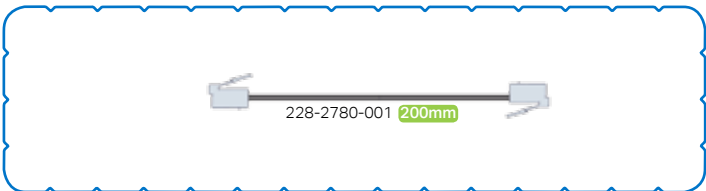
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100

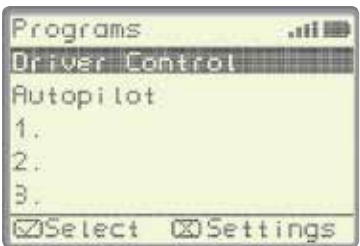


vexiq.com/clawbotiq/100

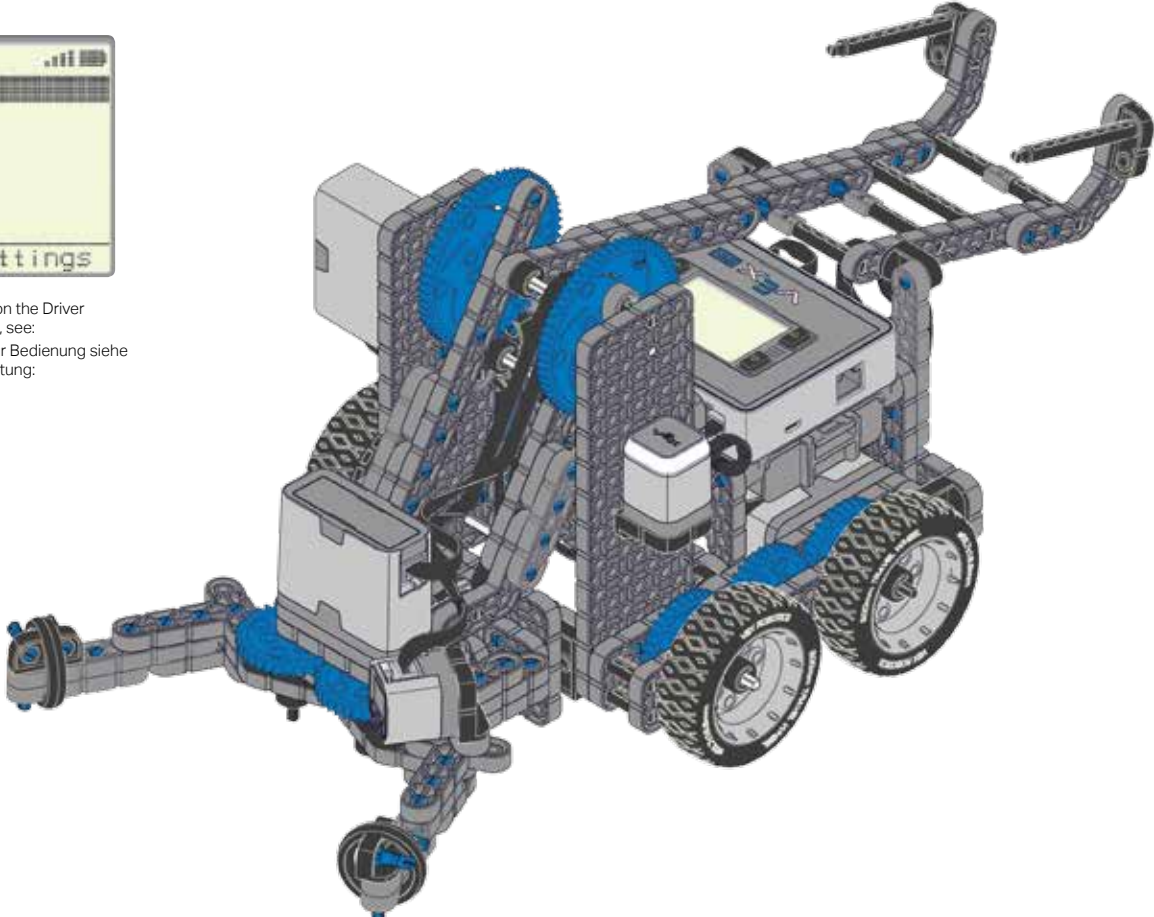
101



vexiq.com/clawbotiq/101



6.1 For information on the Driver Control Program, see: Informationen zur Bedienung siehe Bedienungsanleitung:



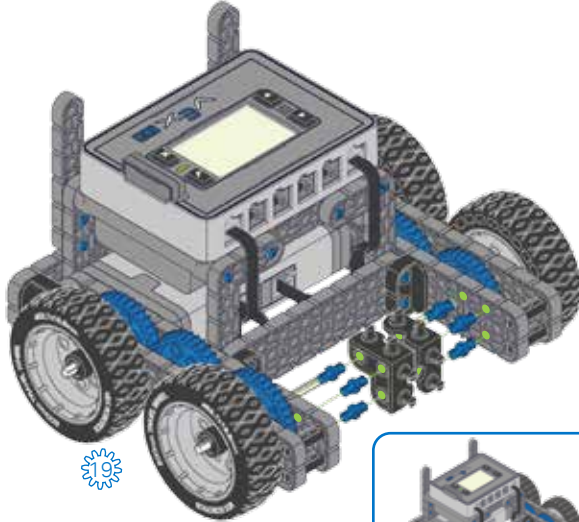
4 Autopilot Instructions

Autopilot

102

6x
228-2500-060

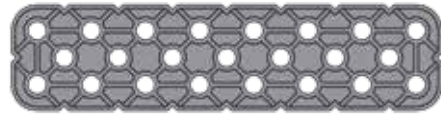
2x
228-2500-126



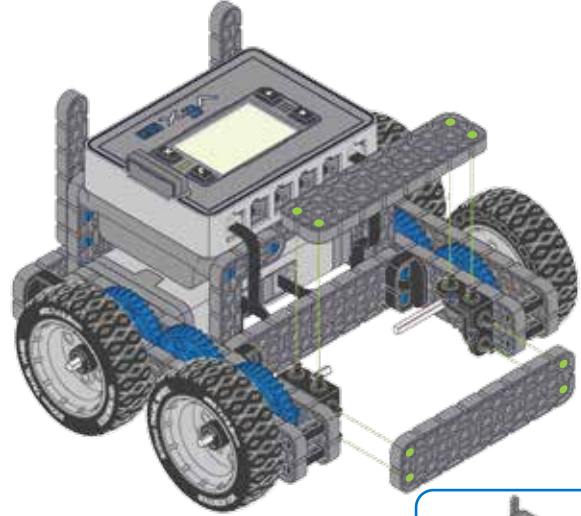
vexiq.com/clawbotiq/102

103

2x



228-2500-023

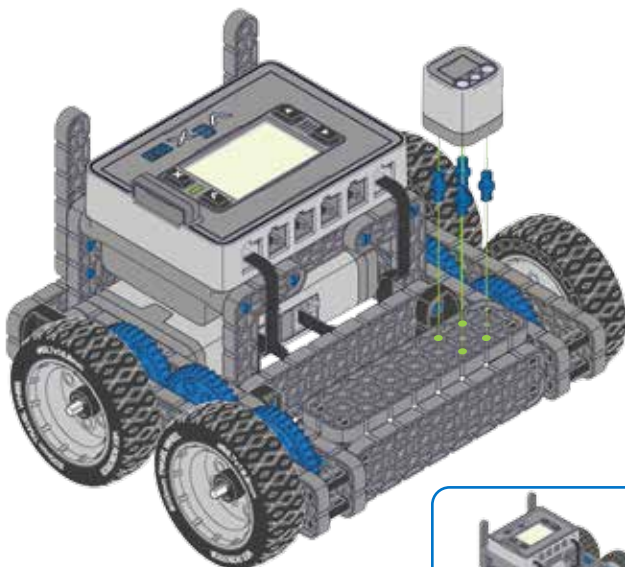


vexiq.com/clawbotiq/103

104

4x
228-2500-060

1x
228-3012

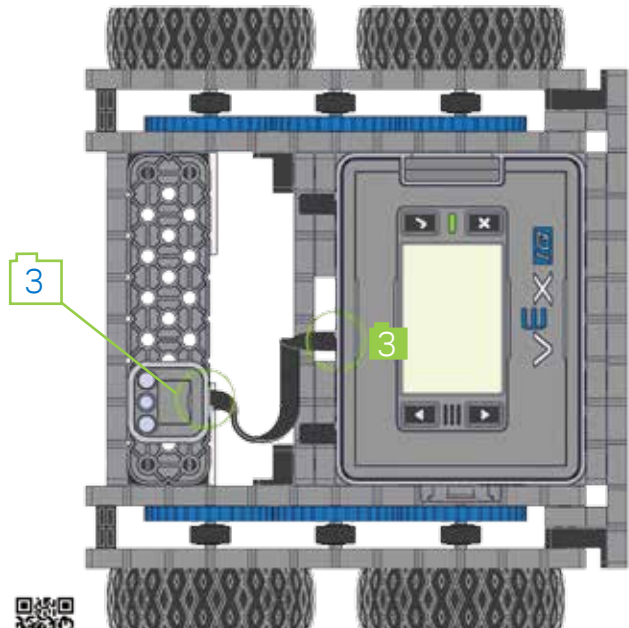


vexiq.com/clawbotiq/104

105



228-2780-002 300mm

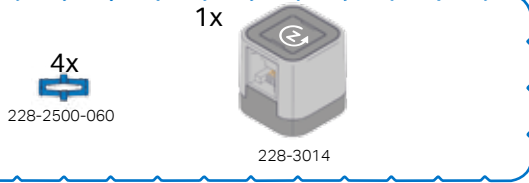
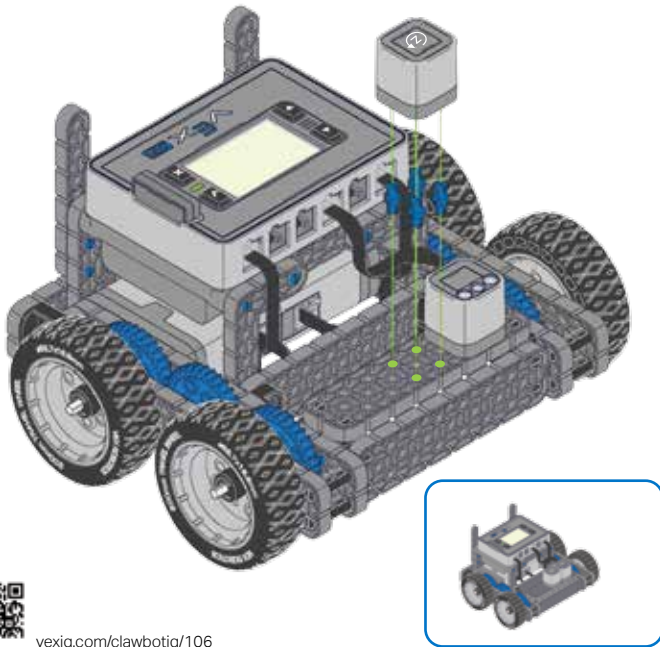


vexiq.com/clawbotiq/105

106

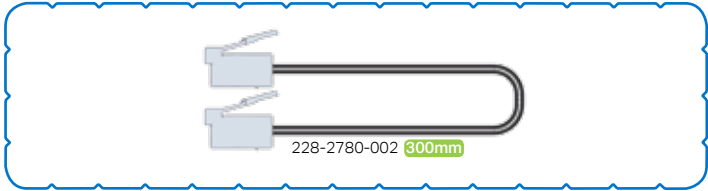
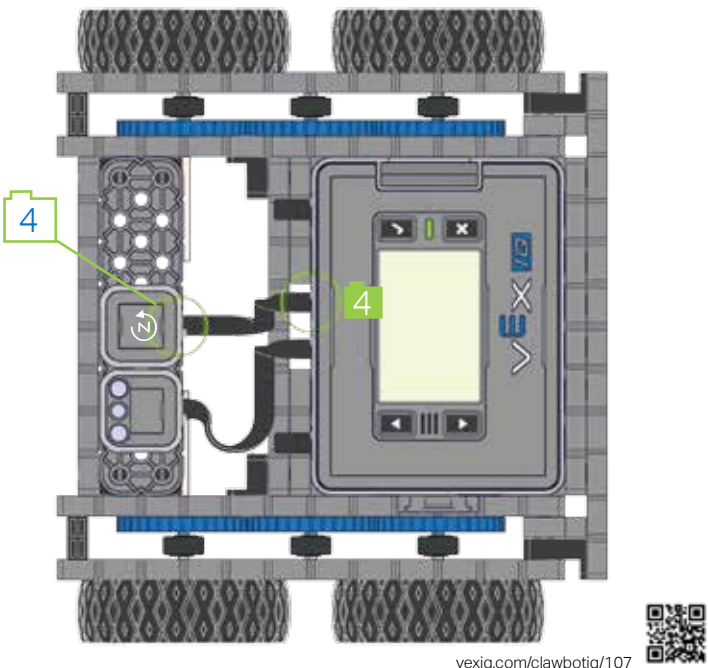
4x
228-2500-060

1x
228-3014

107

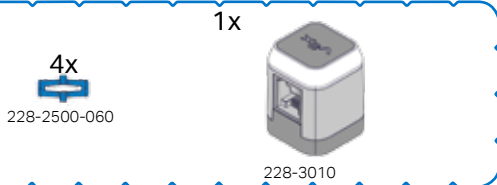
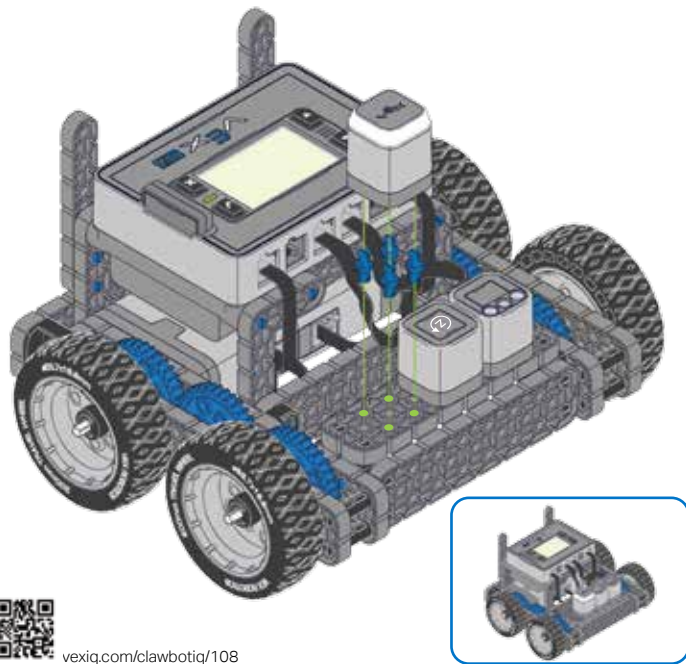
228-2780-002 300mm

108

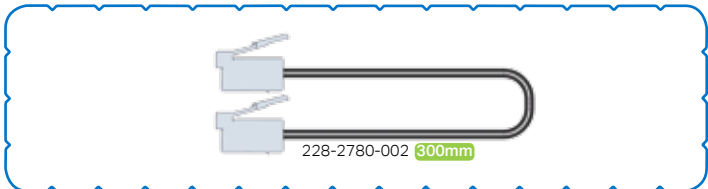
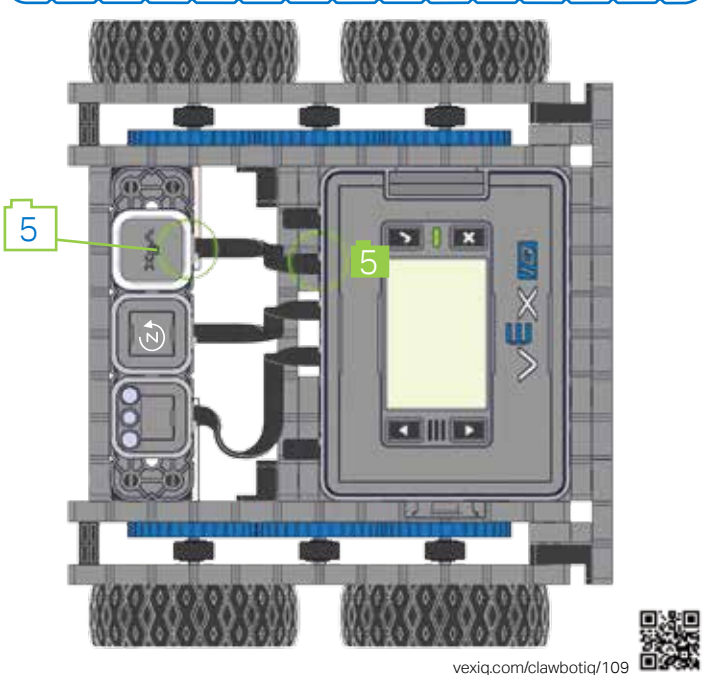
4x
228-2500-060

1x
228-3010

109

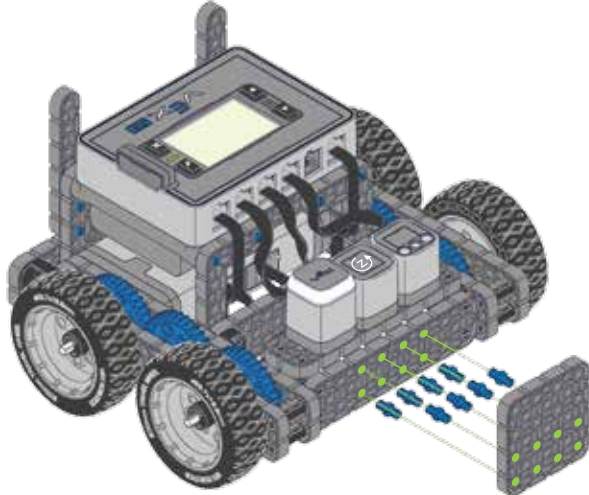
228-2780-002 300mm

110

8x
228-2500-060

1x
228-2500-040

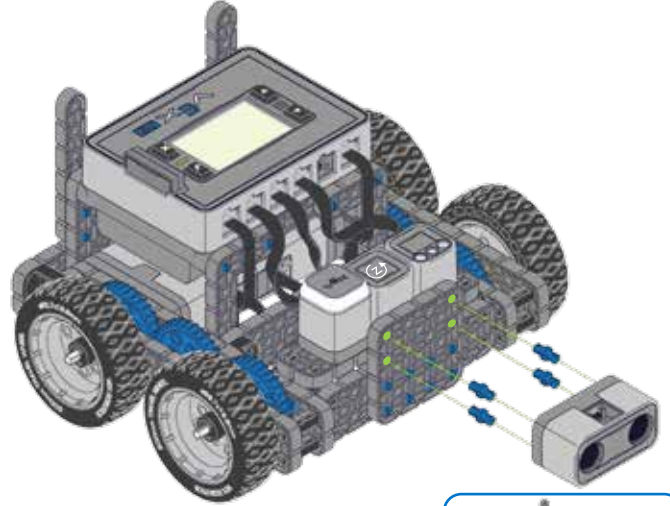


vexiq.com/clawbotiq/110

111

4x
228-2500-060

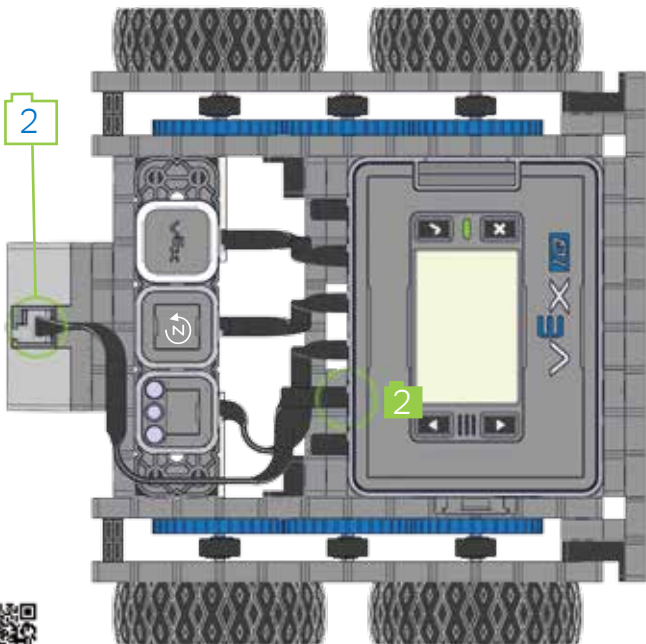
1x
228-3011



vexiq.com/clawbotiq/111

112

228-2780-002 300mm

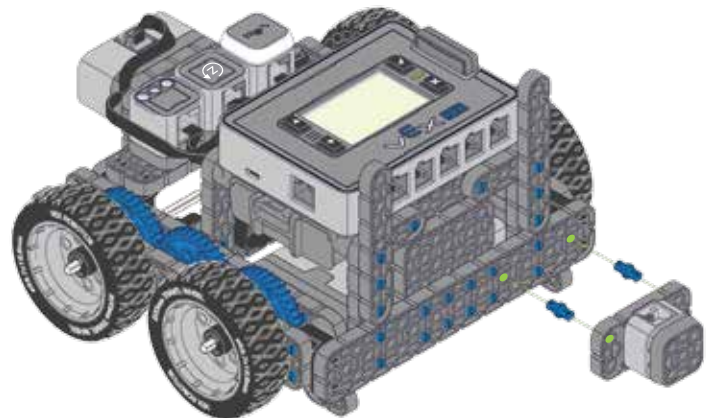


vexiq.com/clawbotiq/112

113

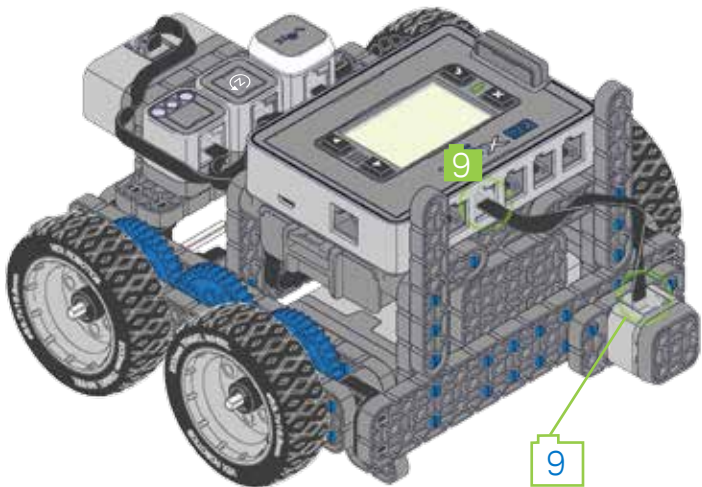
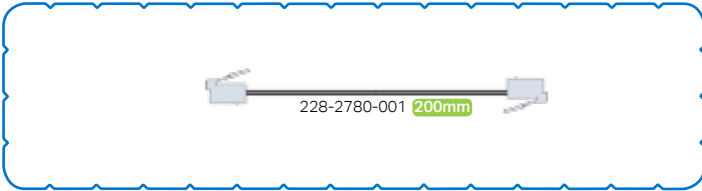
2x
228-2500-060

1x
228-2677



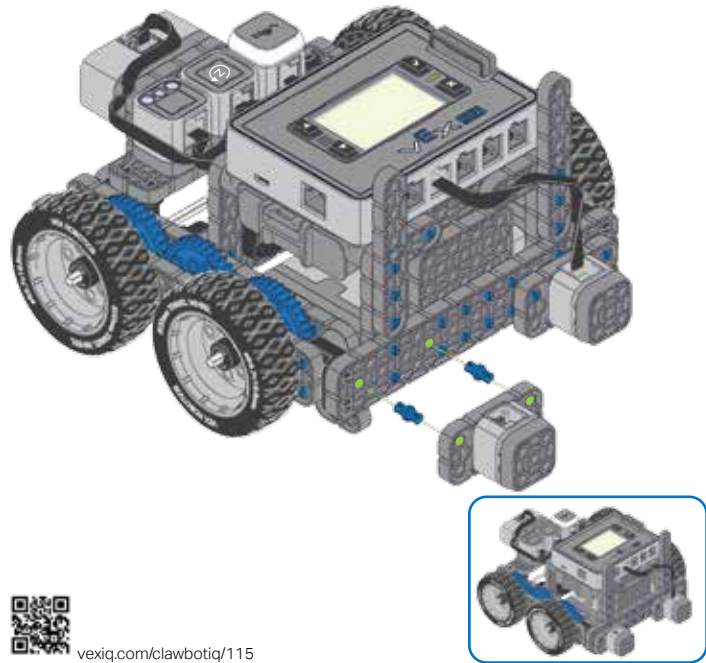
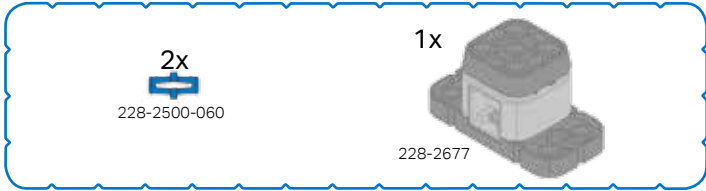
vexiq.com/clawbotiq/113

114



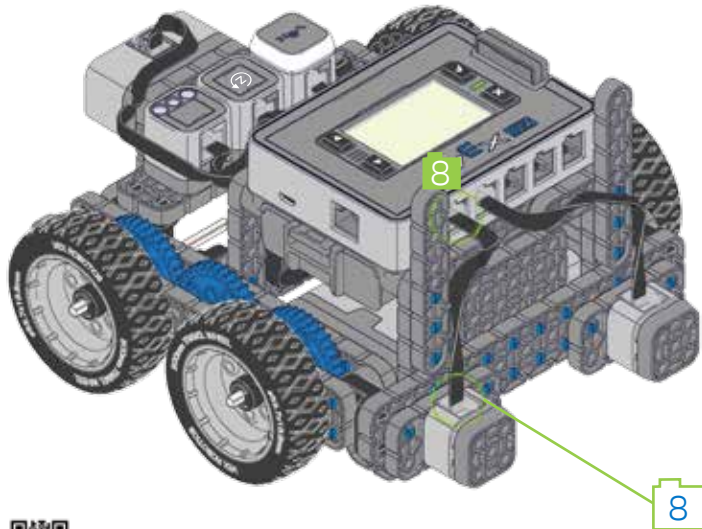
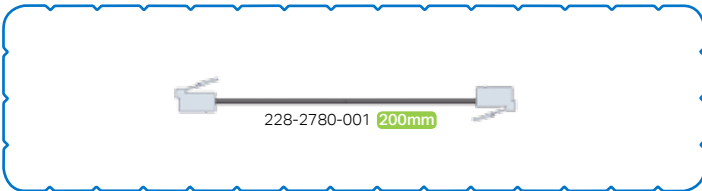
vexiq.com/clawbotiq/114

115

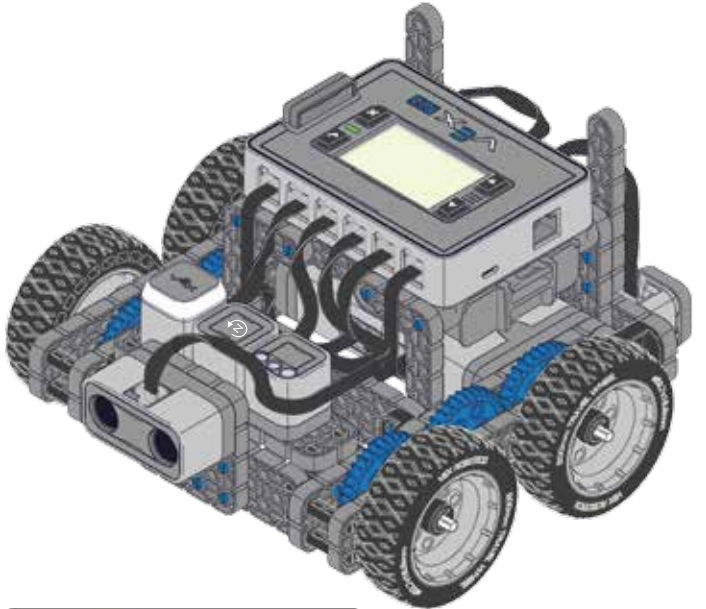



vexiq.com/clawbotiq/115

116



vexiq.com/clawbotiq/116

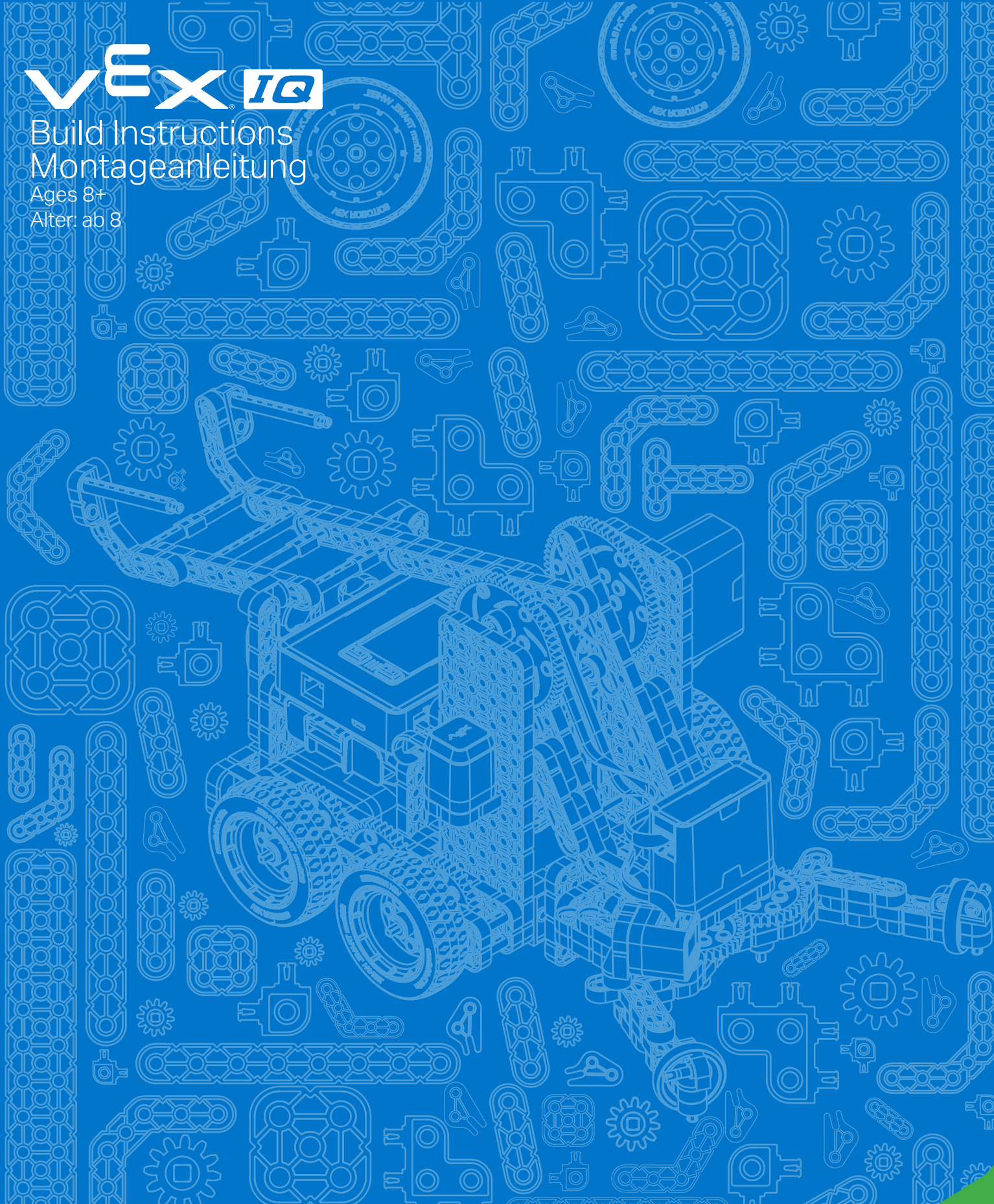


6.2  For information on AutoPilot Program see: Informationen zur Bedienung siehe Bedienungsanleitung:



Build Instructions Montageanleitung

Ages 8+
Alter: ab 8



228-3428-750 Rev10

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This product is solely intended to be used as part of the VEX IQ system. Dieses Produkt ist ausschlielich als Teil des VEX-IQ-Systems gedacht.



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