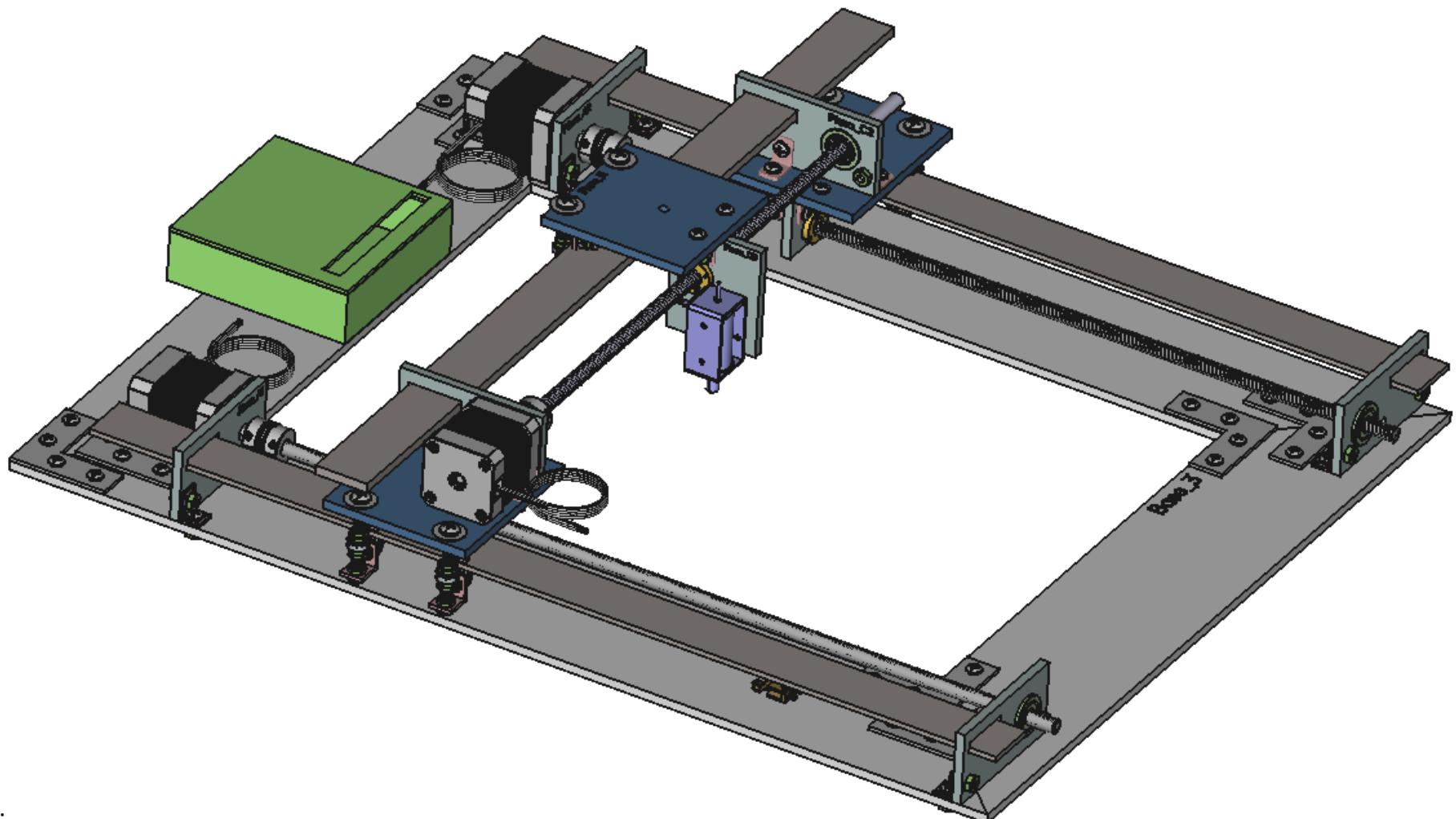


# **GUIA DE ENSAMBLAJE**

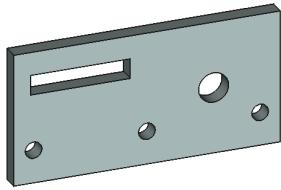
# **IMPRESORA BRAILLE**



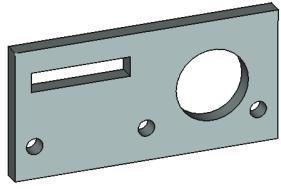
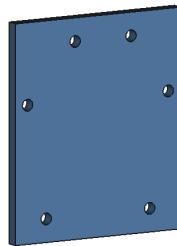
By:  
Angie Cardenas  
Lorena Gonzalez

# Listado de Piezas

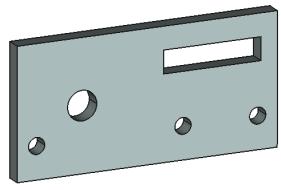
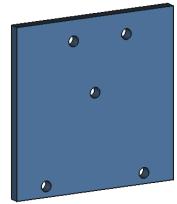
Nota:		X8	Cantidad
		Pieza_Z1	Referencia
		Pieza_Z2	Referencia



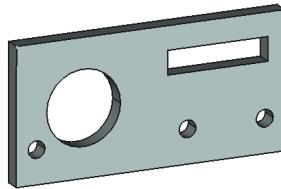
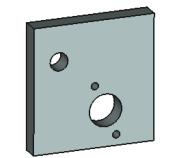
X2  
Pieza\_A1  
Pieza\_A2



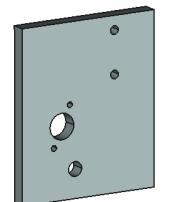
X2  
Pieza\_A3  
Pieza\_A4



X1  
Pieza\_C1



X1  
Pieza\_C2



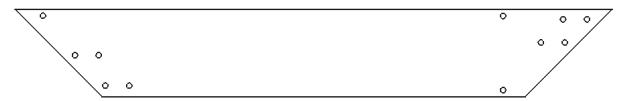
X2  
Pieza\_B1  
Pieza\_B2



X1  
Base\_1



X2  
Base\_2  
Base\_4



X1  
Base\_3

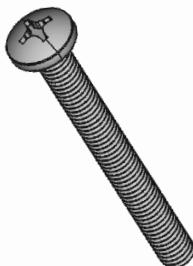
X2  
Pieza\_D1  
Pieza\_D2



X1  
Pieza\_D3

# Uniones Mecánicas

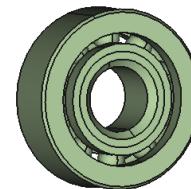
Nota:		X9	Cantidad
		#016	Referencia
		45cm	Longitud/Diámetro



X6  
#001  
5cm



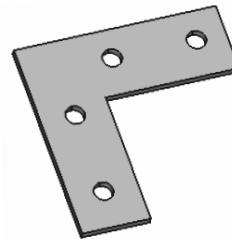
X6  
#005  
8mm



X3  
#009



X79  
#002  
2cm

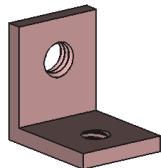


X8  
#006

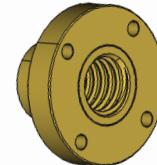
X18  
#010



X6  
#003  
8mm



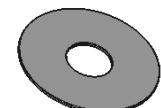
X32  
#007



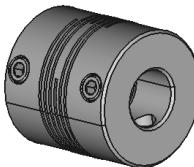
X3  
#011



X133  
#004  
1cm



X6  
#008



X3  
#012

# Complementos

Nota:

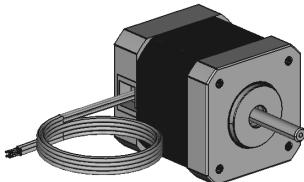
Las imágenes con lo  
más aproximado a la  
realidad



X9  
#016  
45cm

Cantidad  
Referencia  
Longitud

MOTOR NEMA17



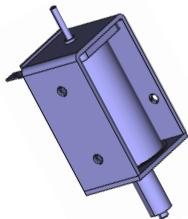
X3  
#013

GUIA LINEAL



X2  
#017  
55,5 cm

SOLENOIDE

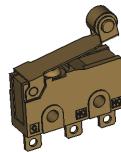


X1  
#014



X1  
#018  
45cm

FIN DE CARRERA



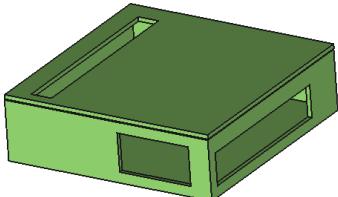
X4  
#015

TORNILLO TRAPEZOIDAL



X2  
#019  
45cm

CAJA PLACA

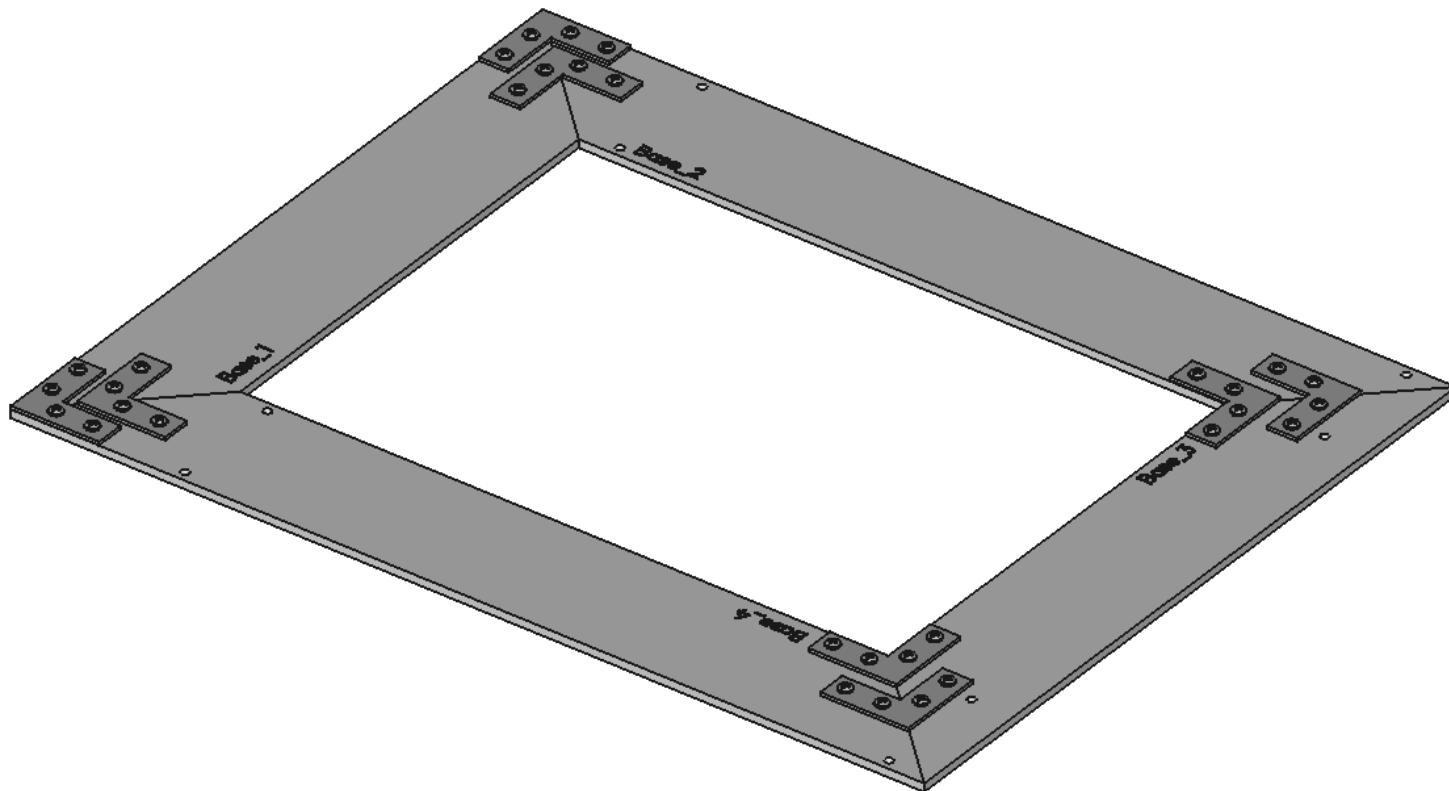


X1  
#016



X1  
#020  
35cm

# PARTE 1: BASES



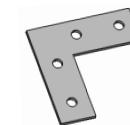
X1  
Base\_1



X2  
Base\_2  
Base\_4



X1  
Base\_3



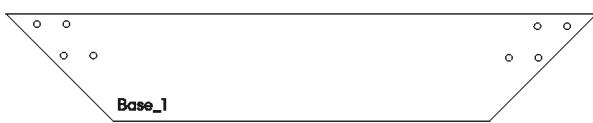
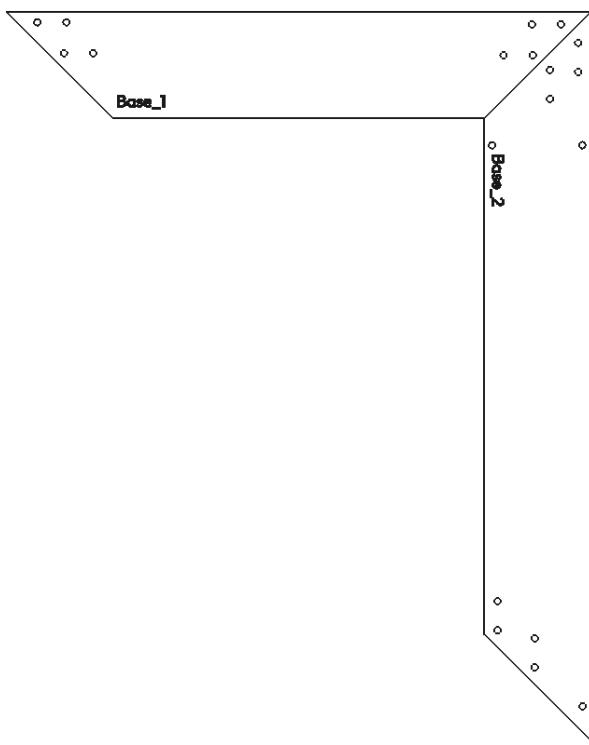
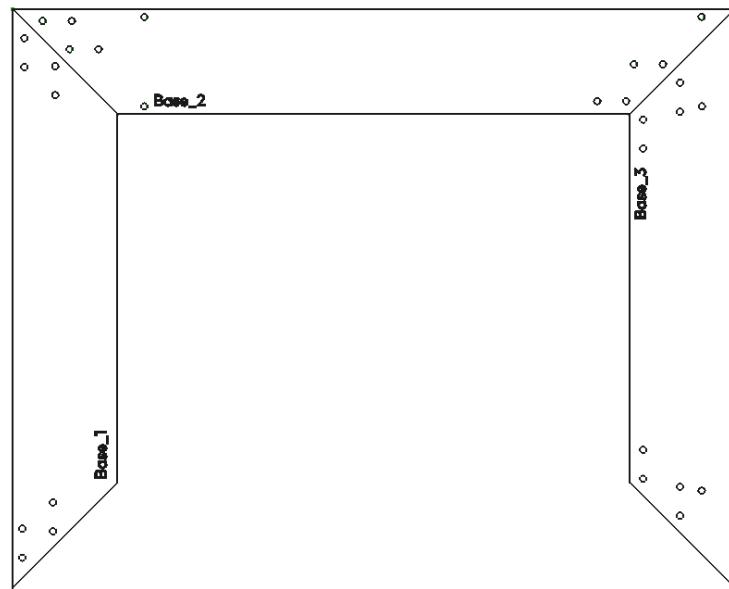
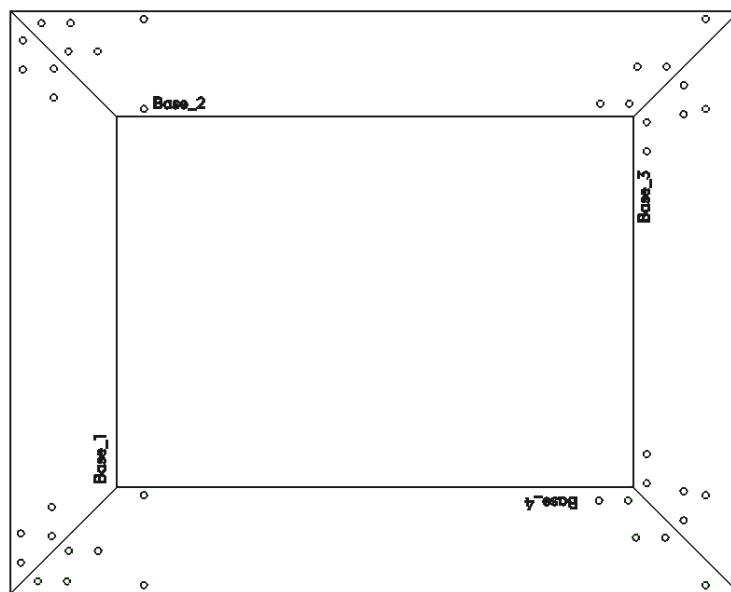
X8  
#006



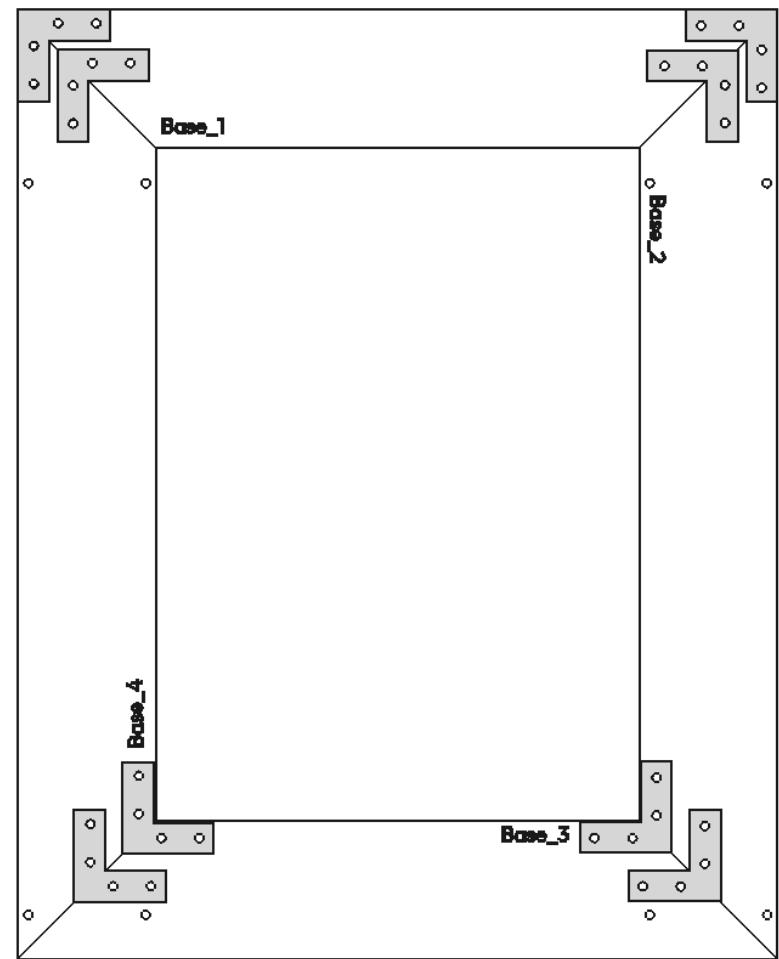
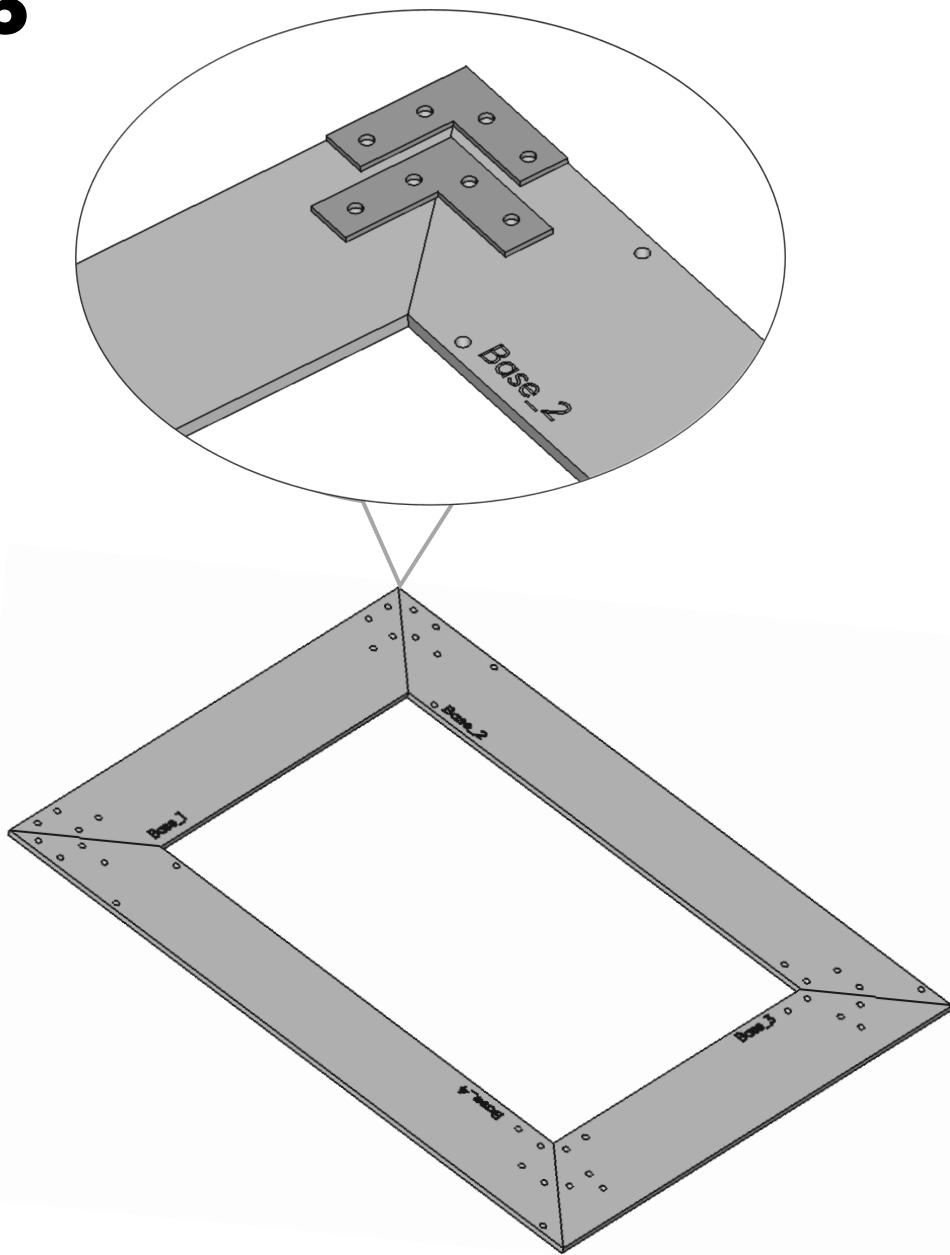
X32  
#002

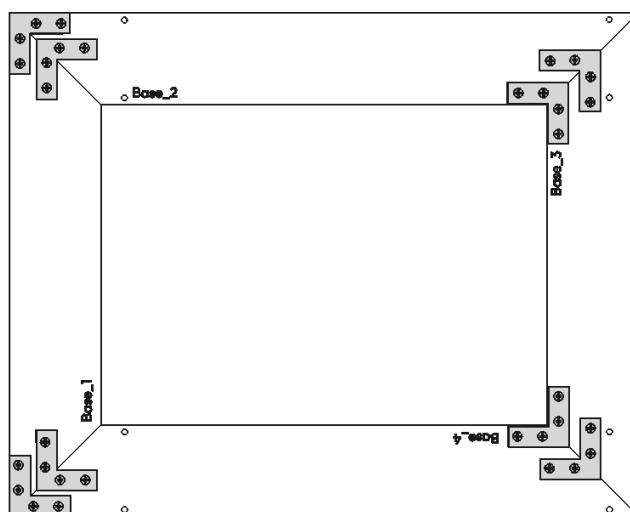
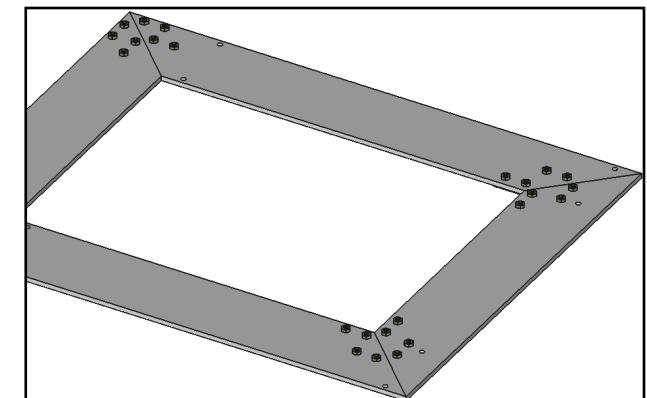
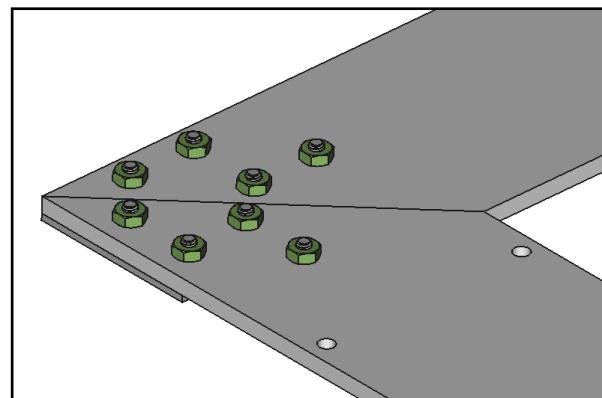
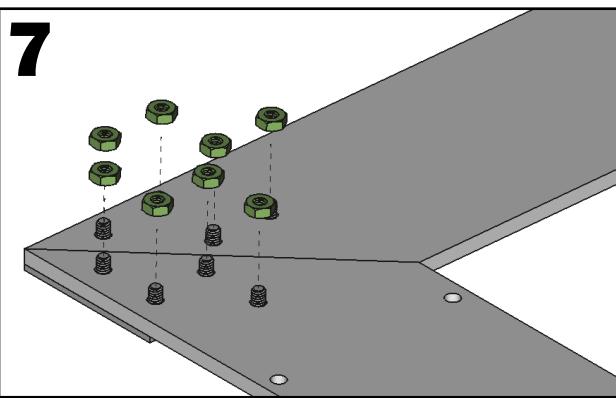
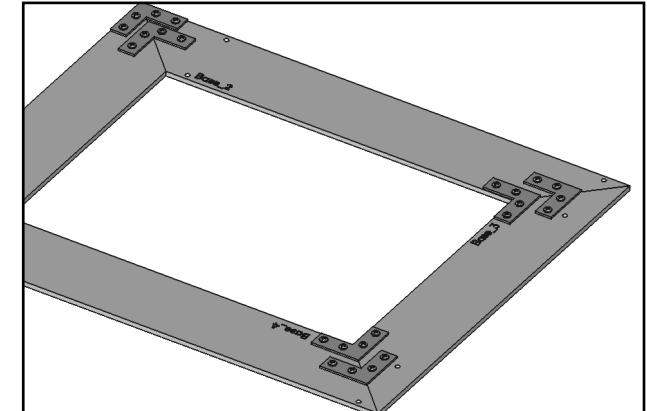
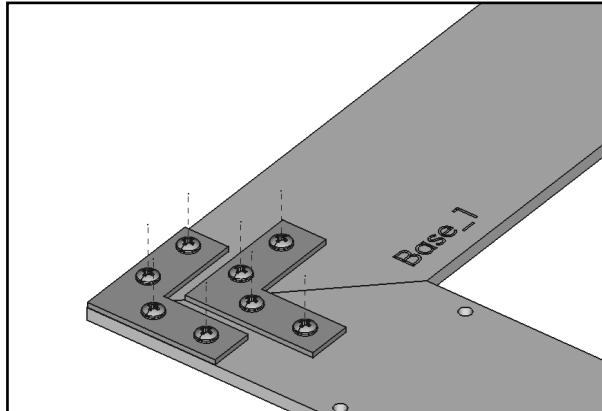
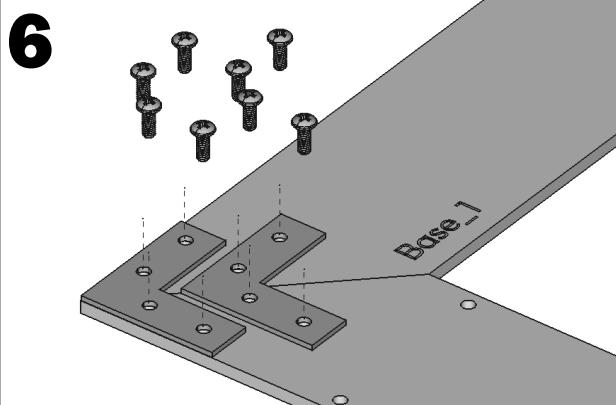


X32  
#004

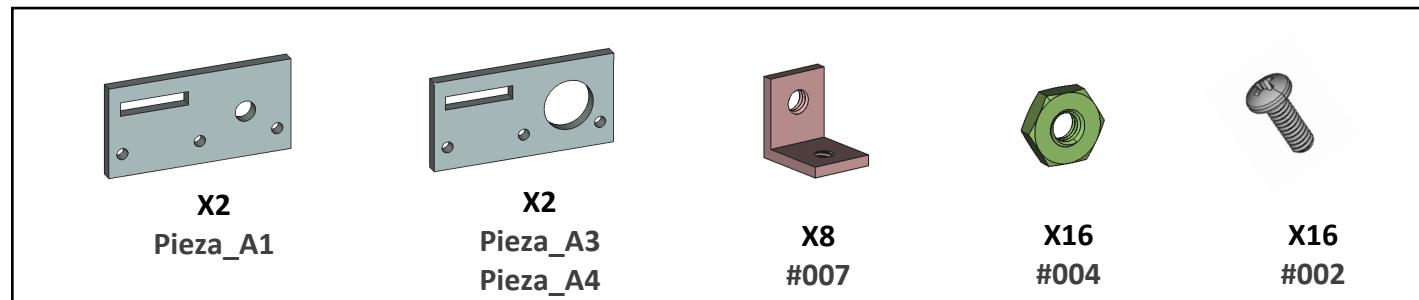
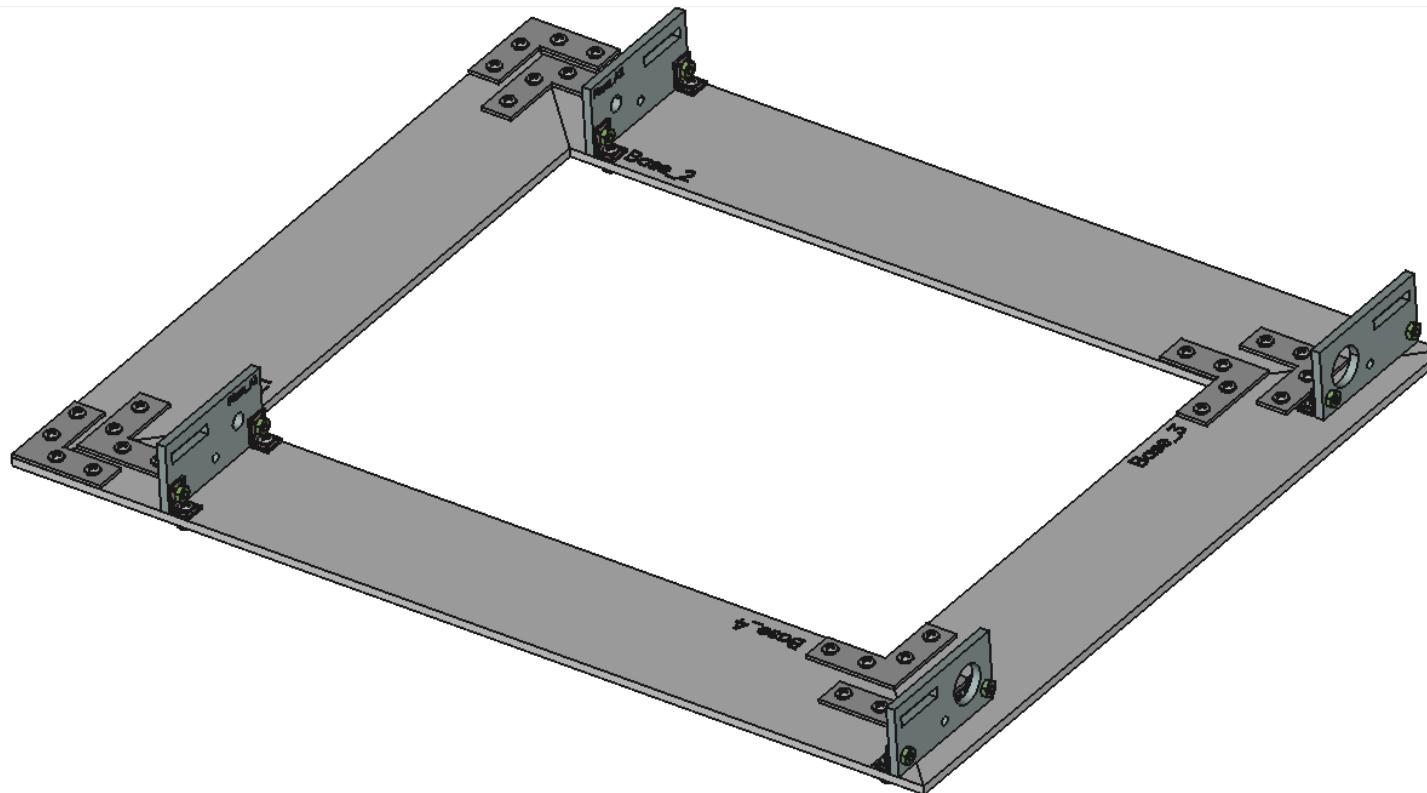
**1****2****3****4**

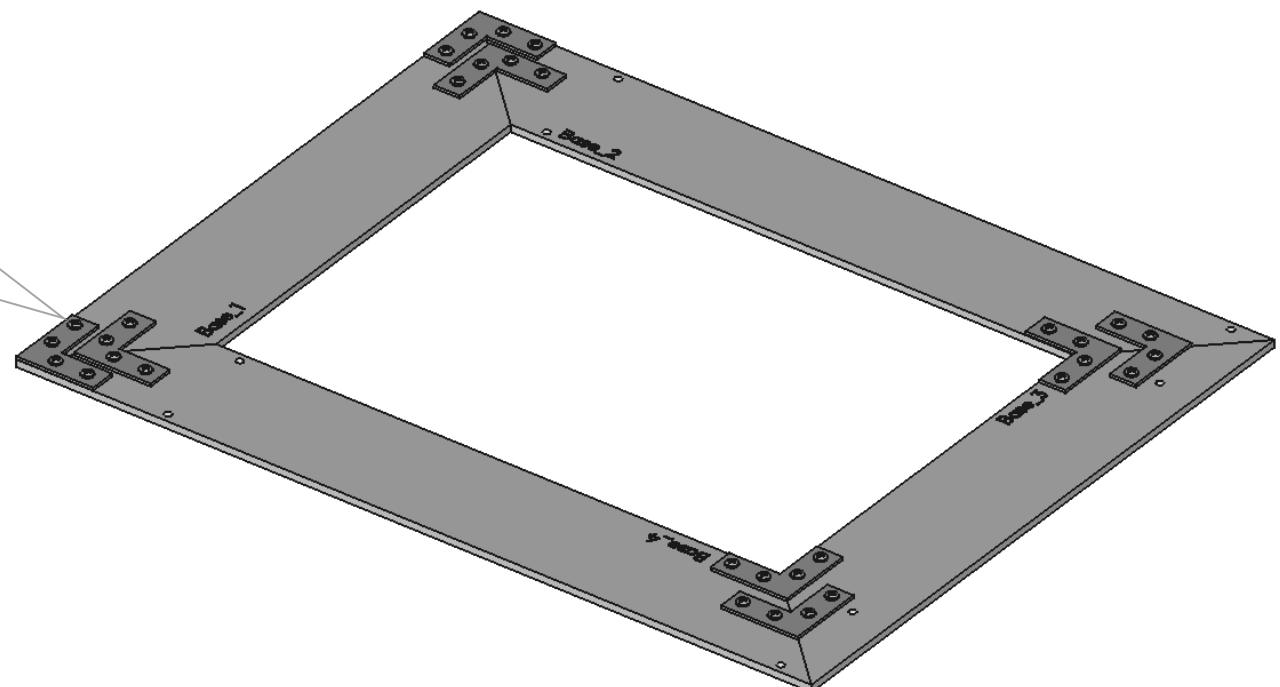
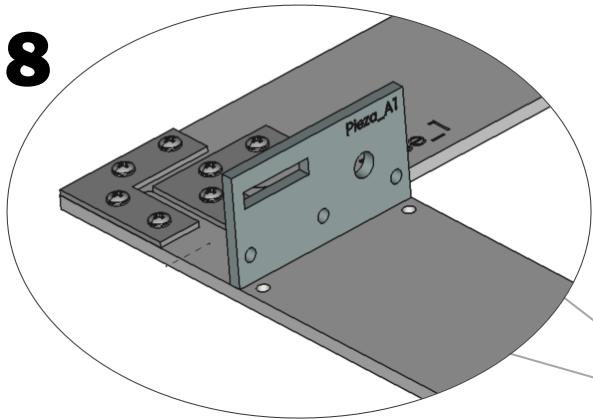
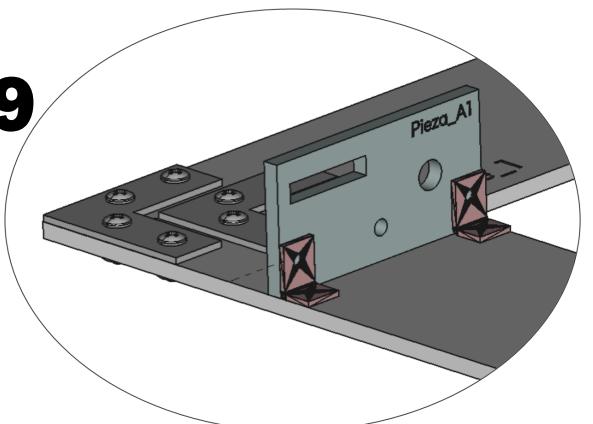
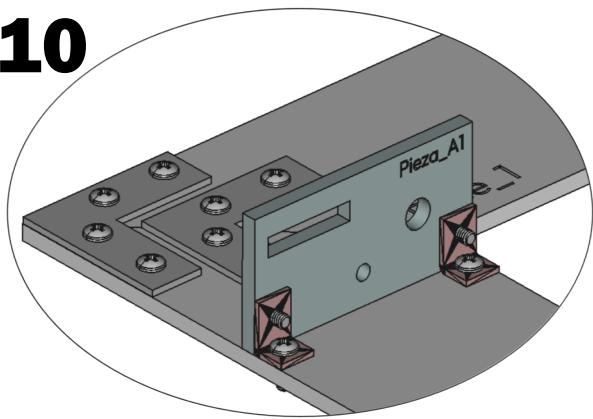
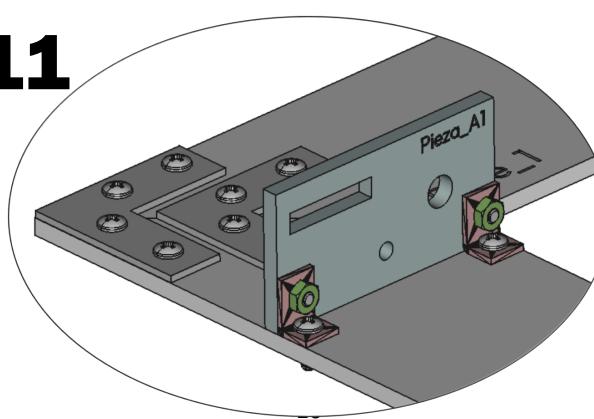
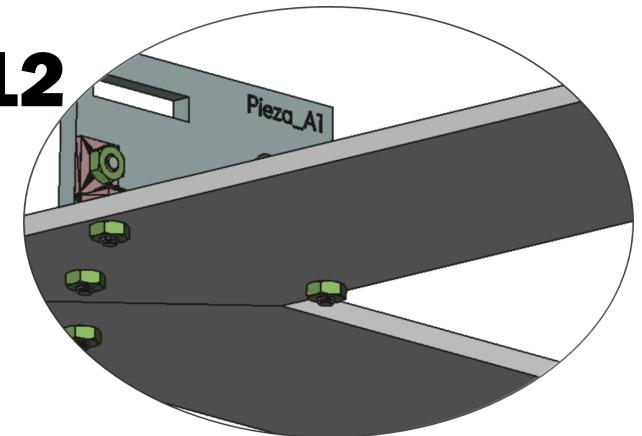
**5**





# PARTE 2: PIEZAS A



**8****9****10****11****12**

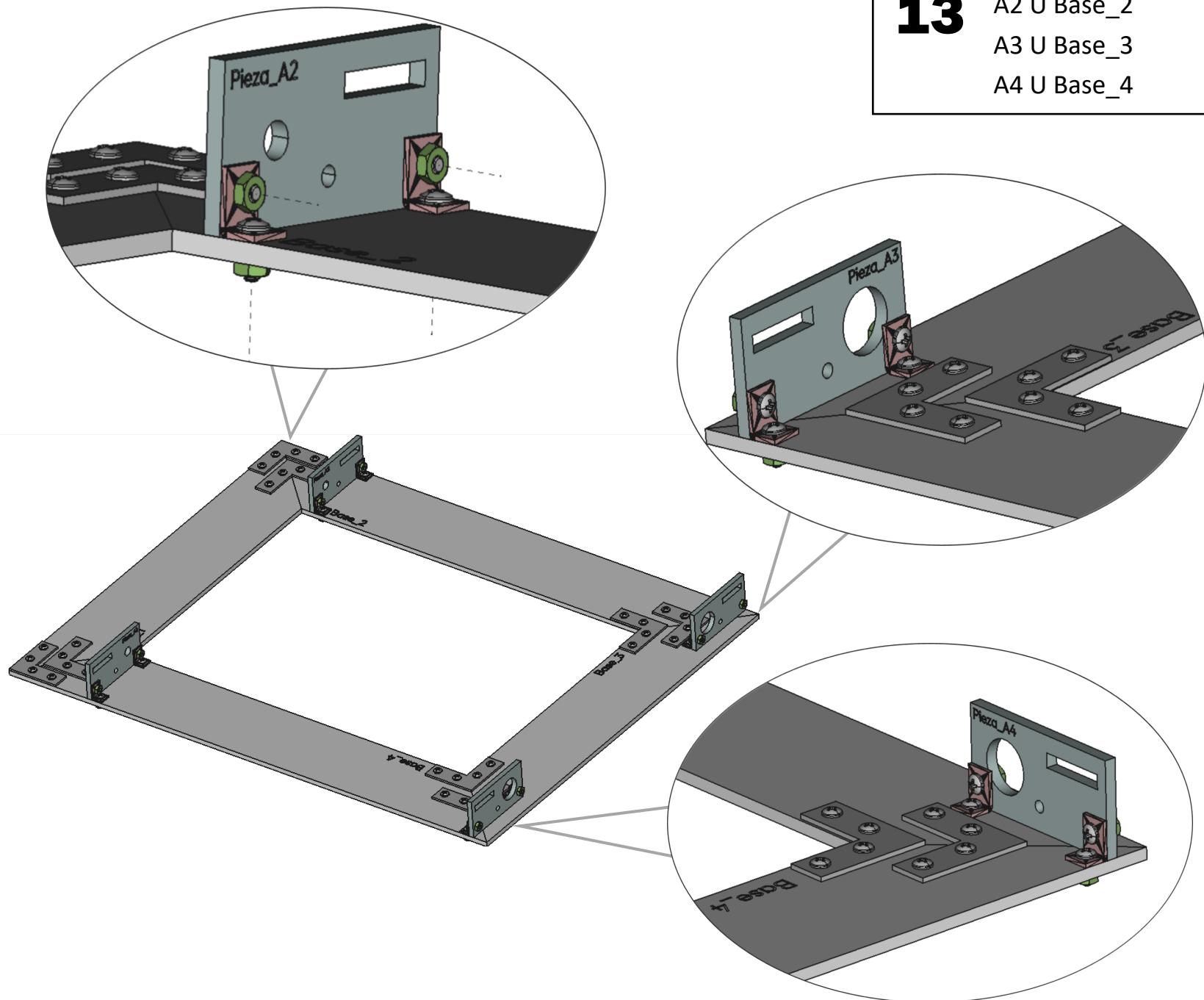
Repetir del 8-12 para las piezas:

**13**

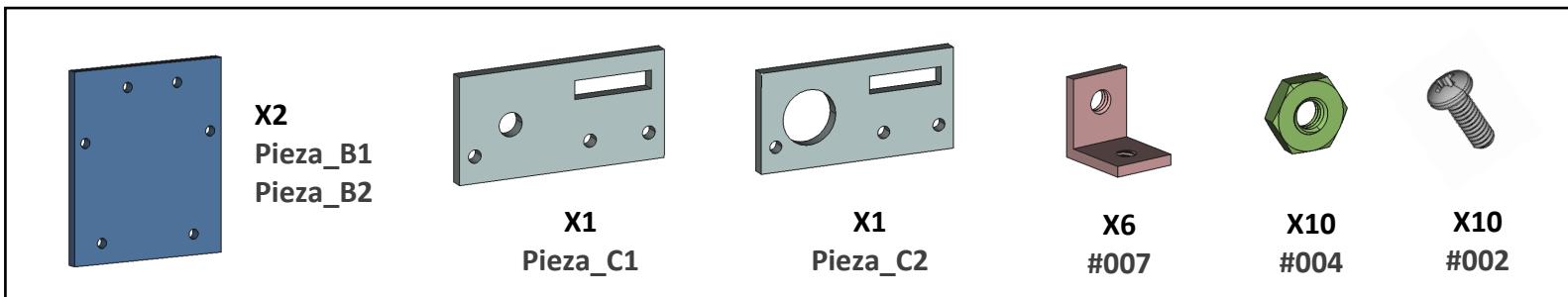
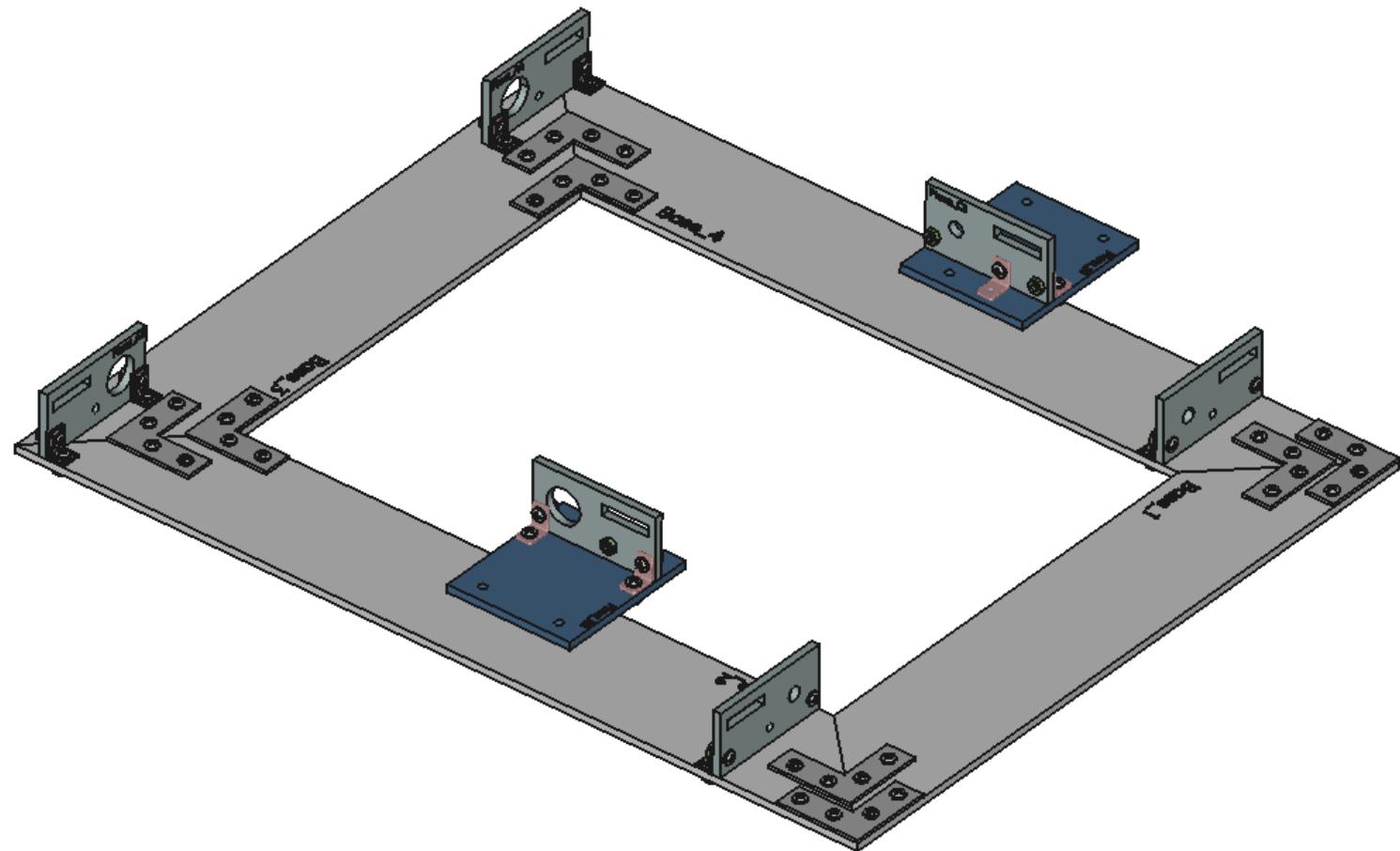
A2 U Base\_2

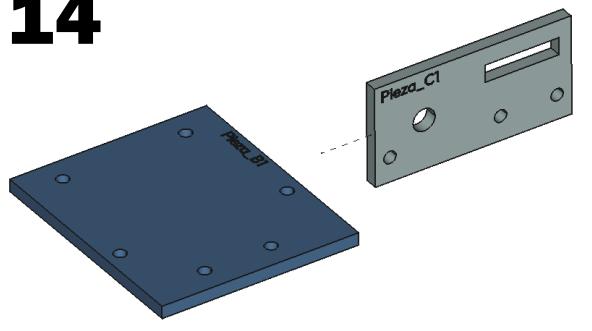
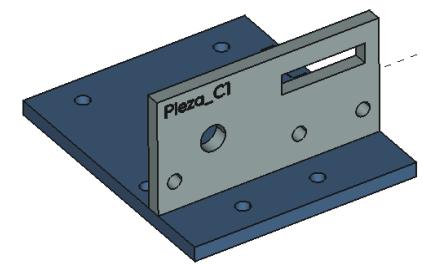
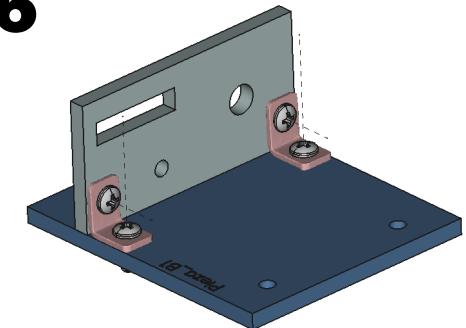
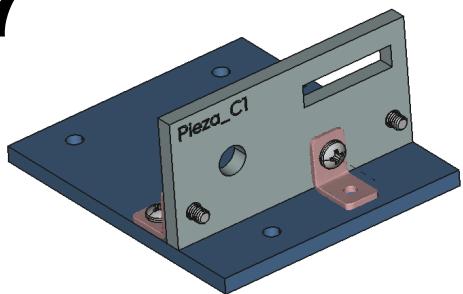
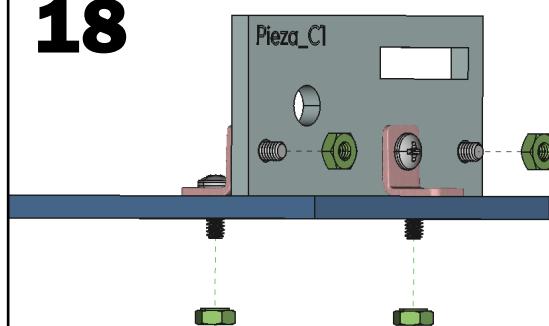
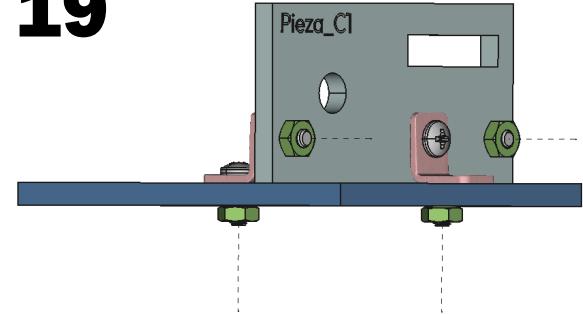
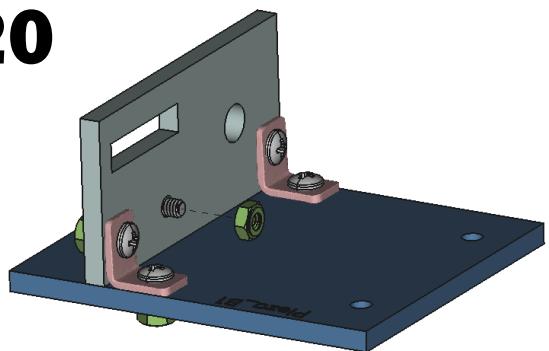
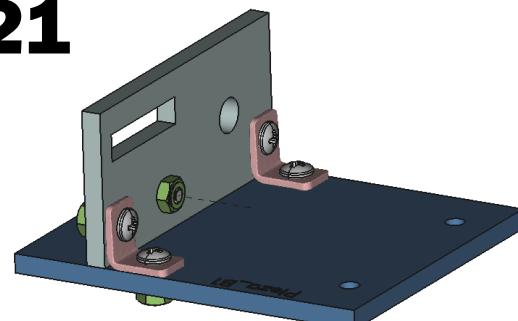
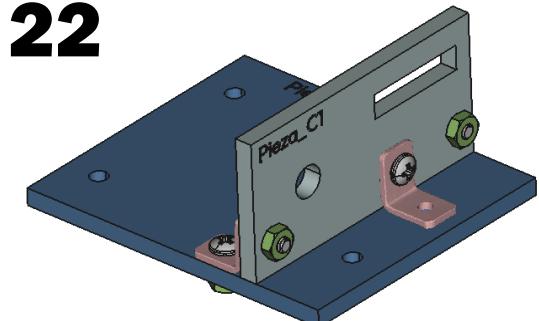
A3 U Base\_3

A4 U Base\_4

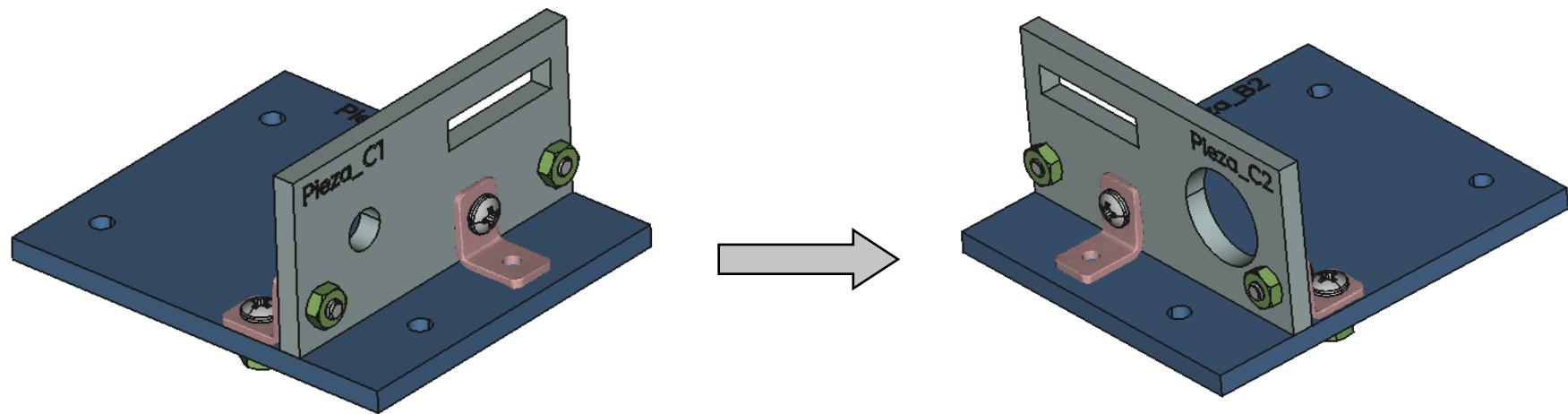


# PIEZAS BC

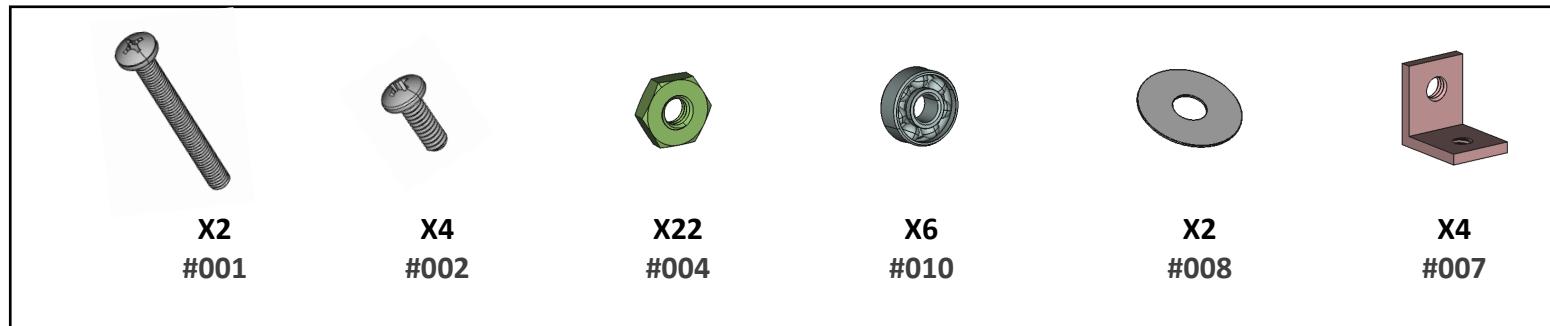
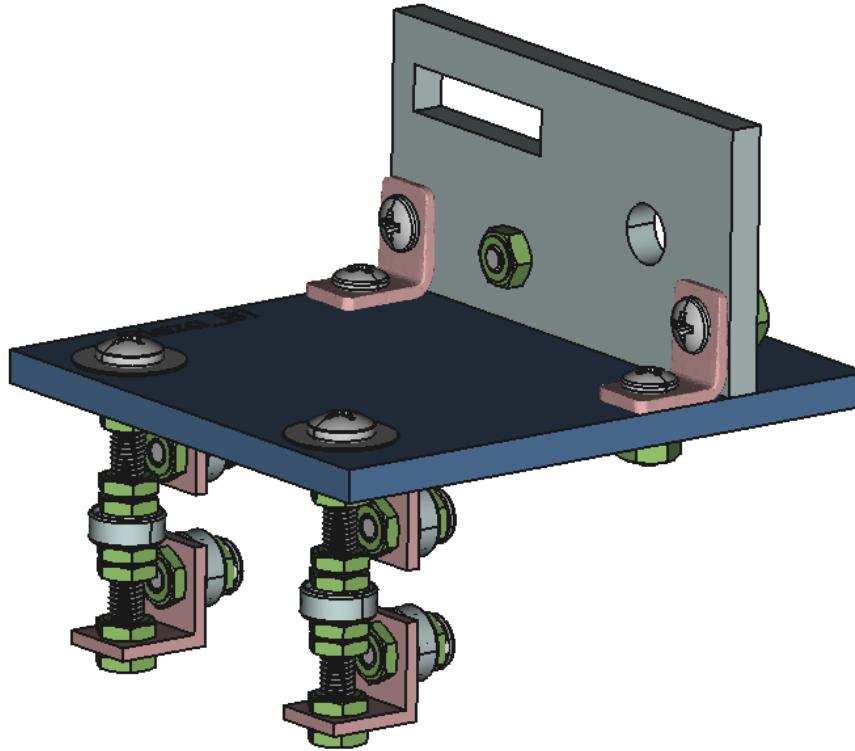


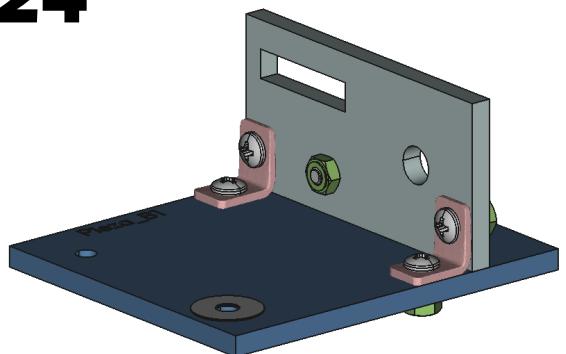
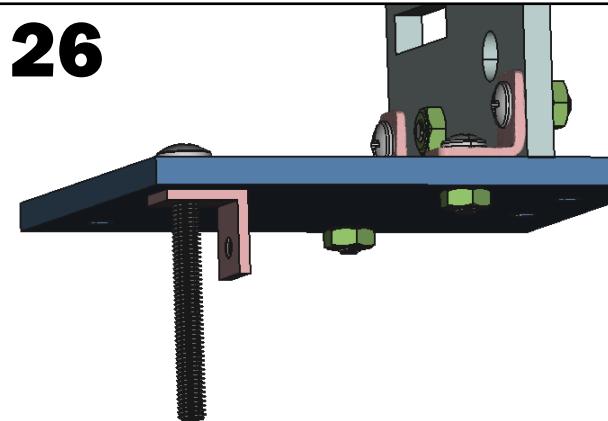
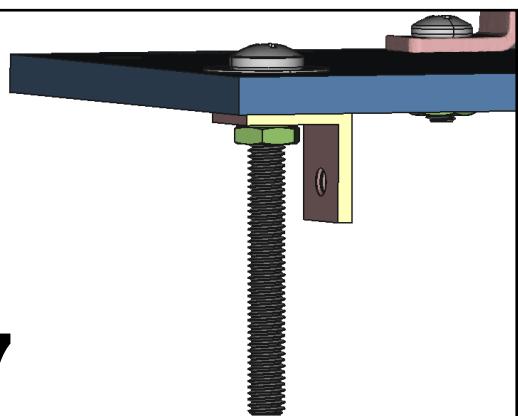
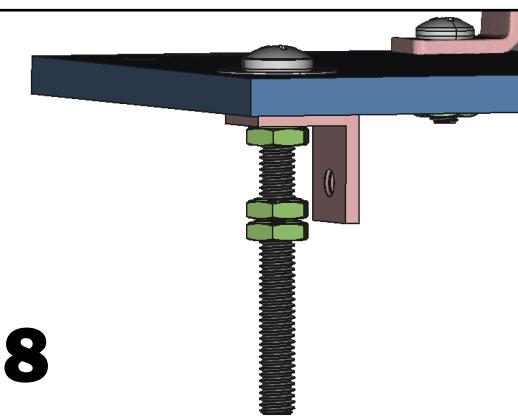
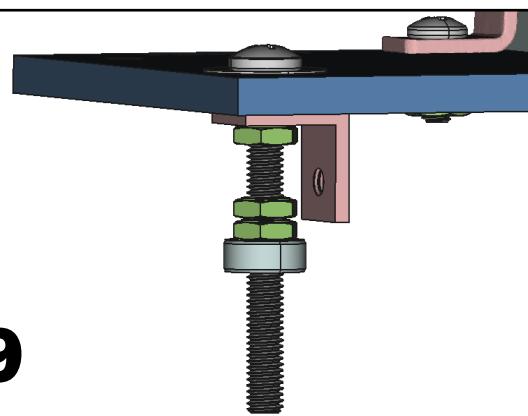
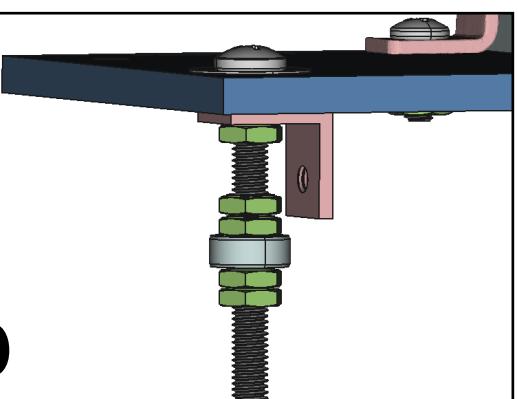
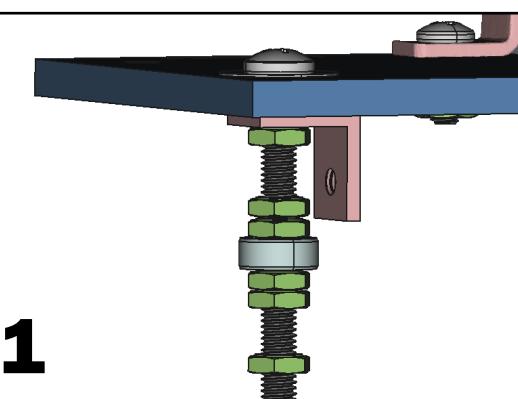
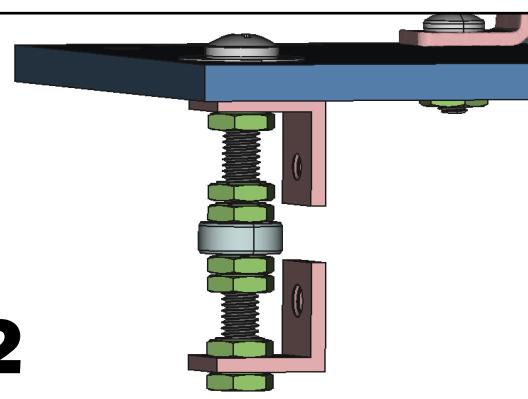
**14****15****16****17****18****19****20****21****22**

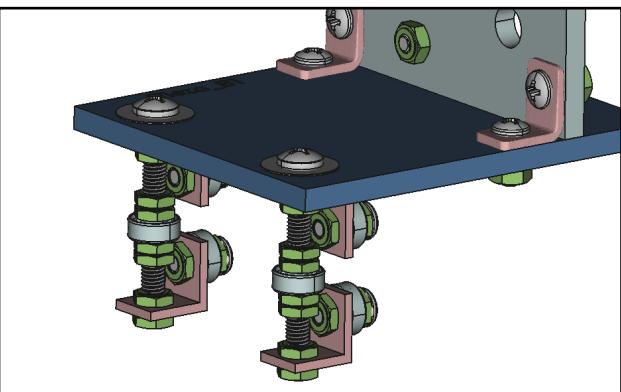
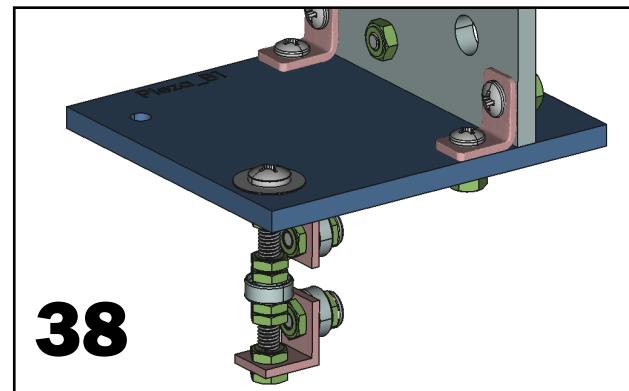
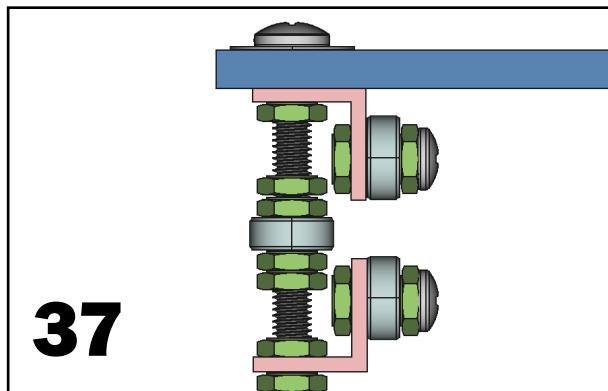
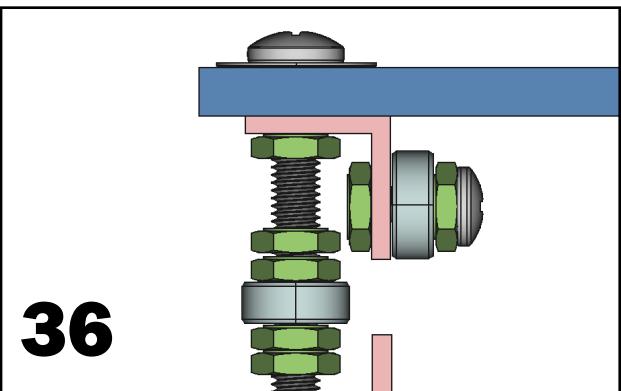
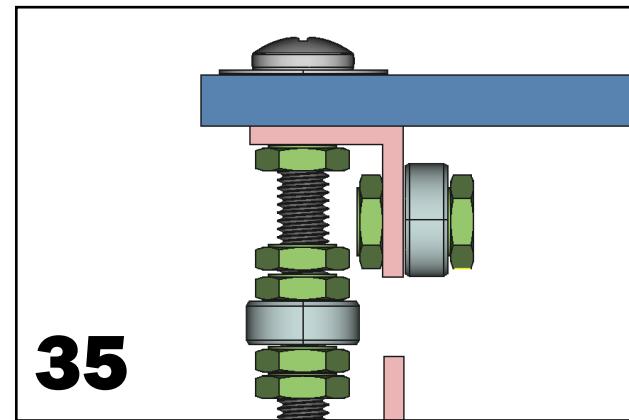
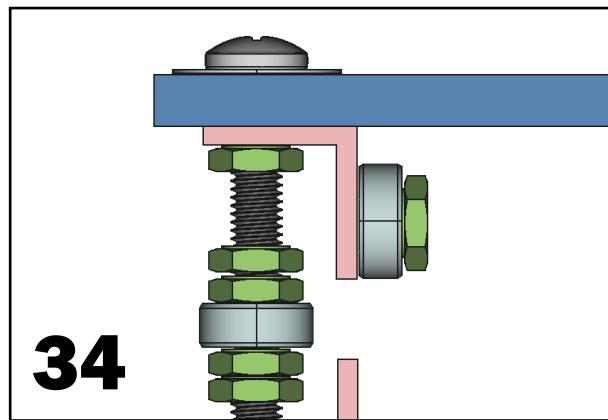
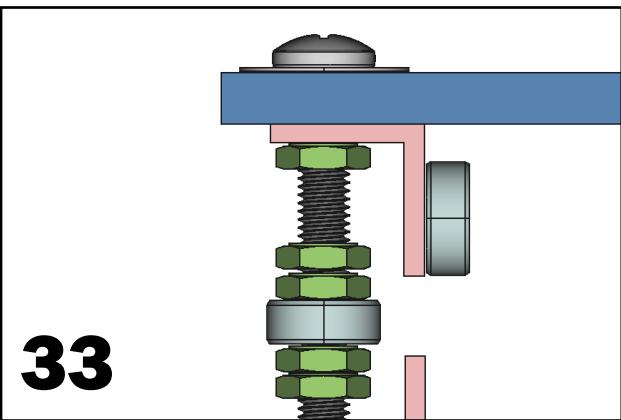
## 23 Repetir el procedimiento para las piezas: B2 - C2



# ESTRUCTURAS GUÍAS



**24****25****26****27****28****29****30****31****32**

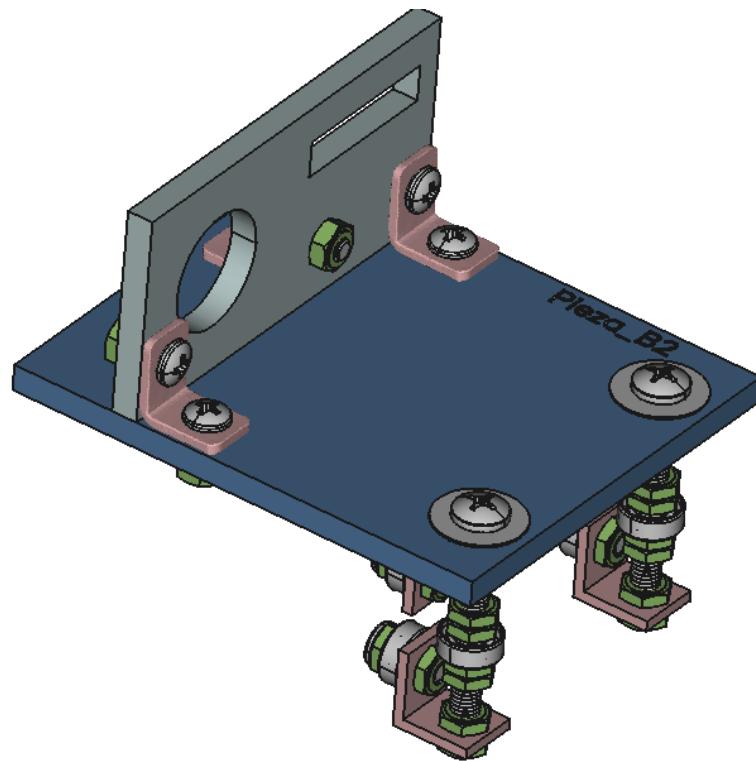


**39**

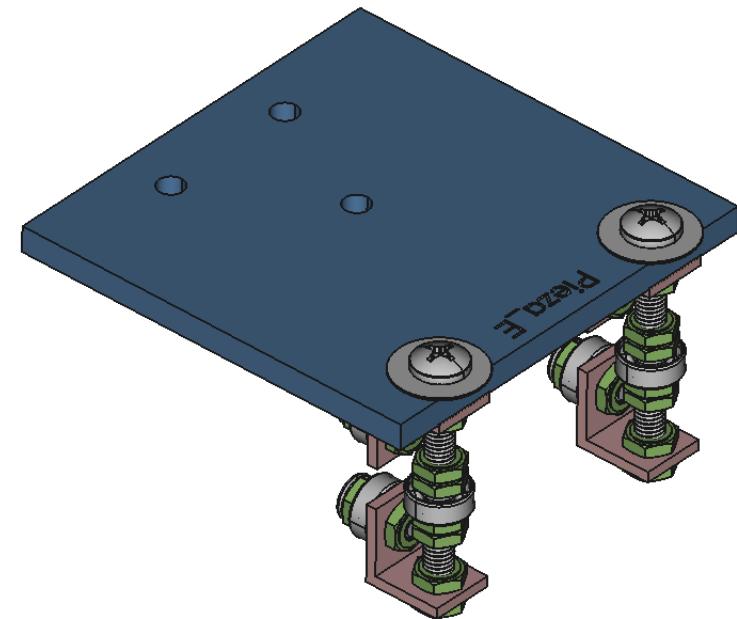
Repetir el procedimiento  
del otro lado.

**40** Repetir el procedimiento para las piezas:

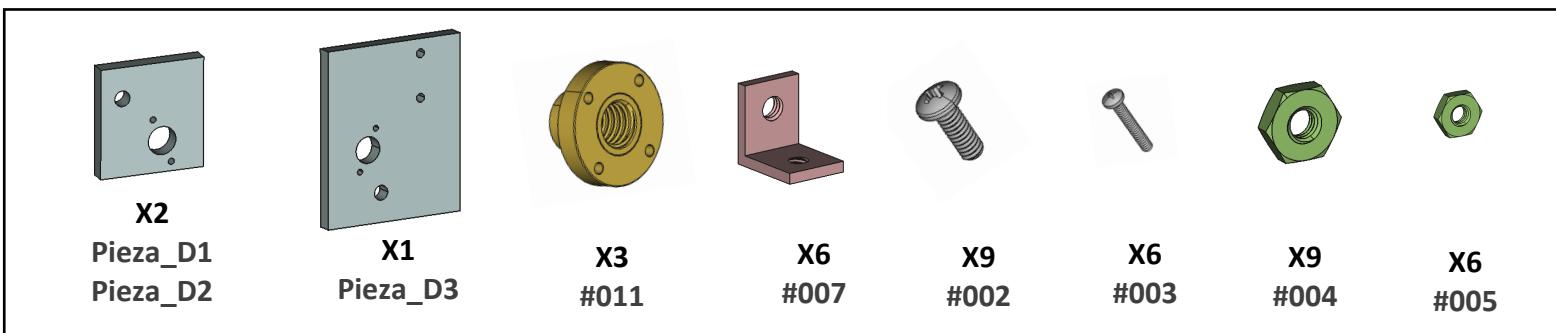
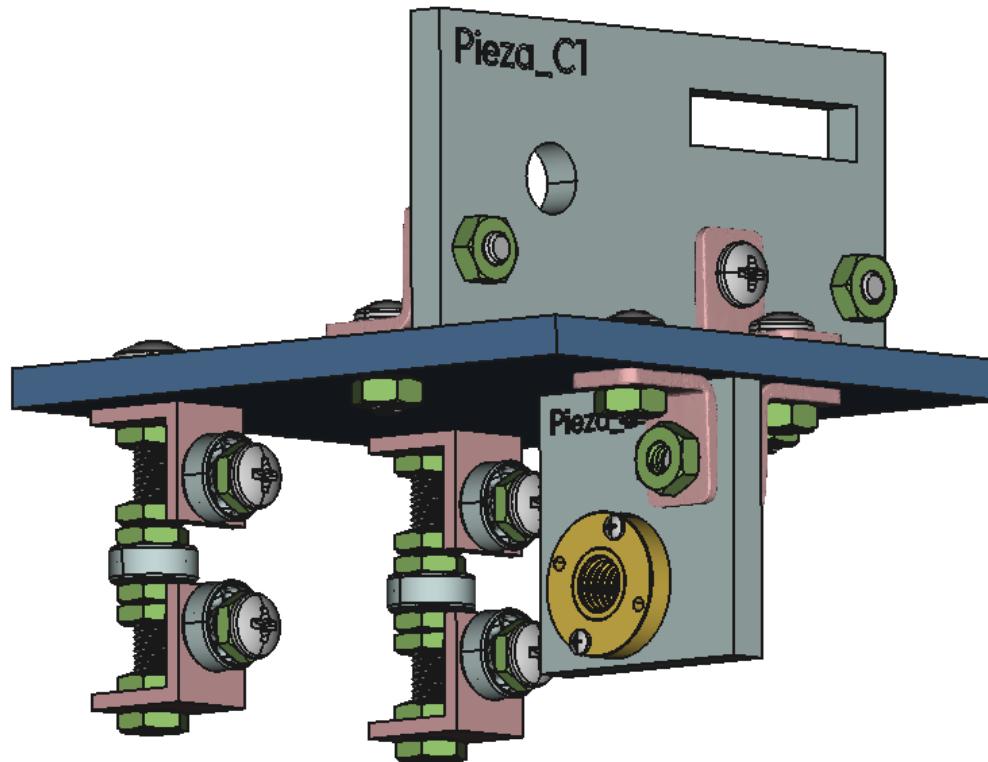
BC2

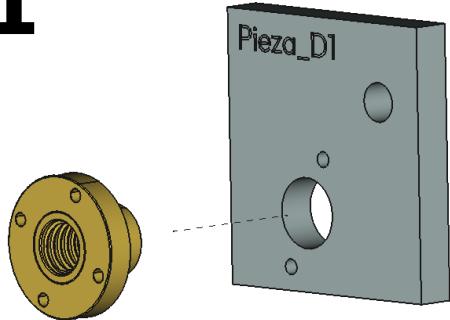
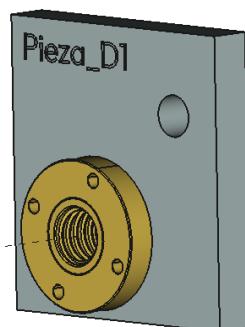
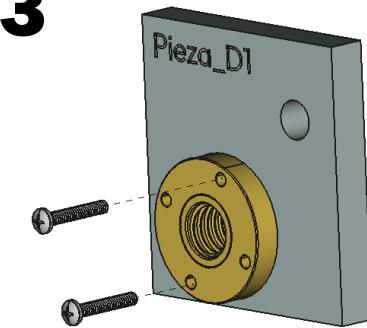
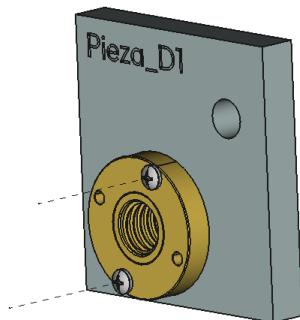
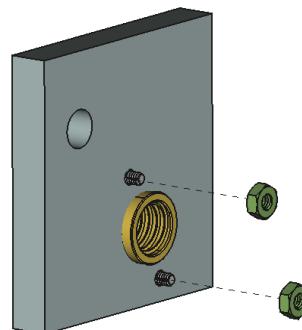
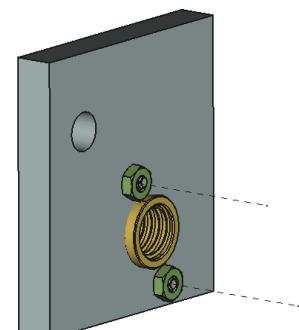
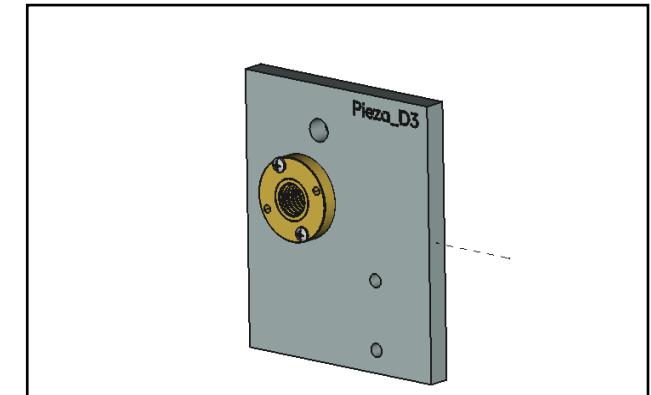
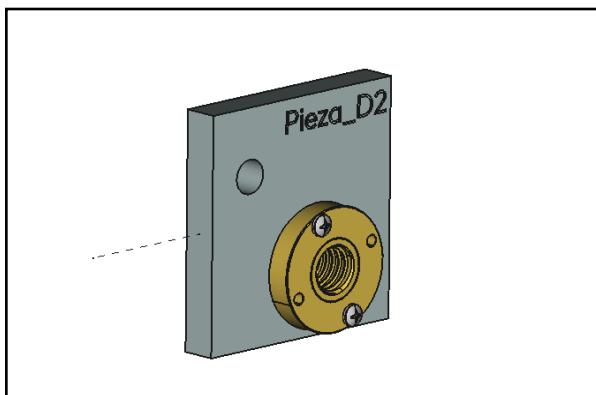


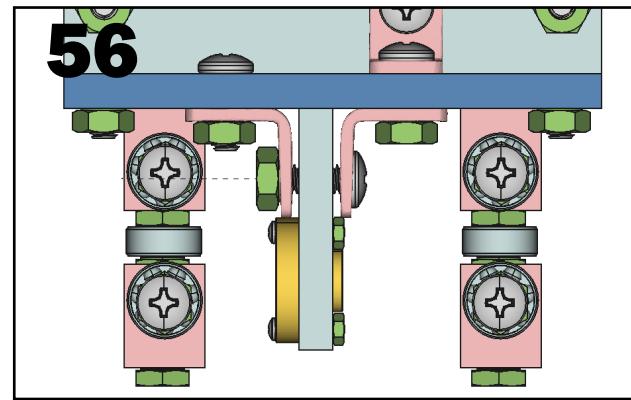
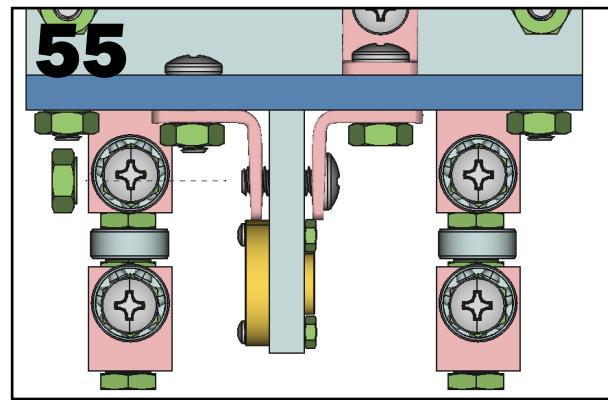
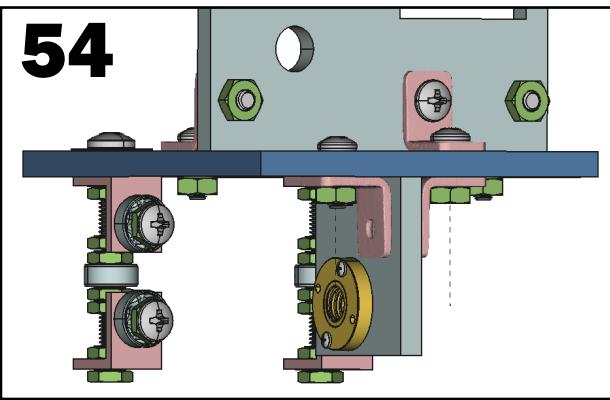
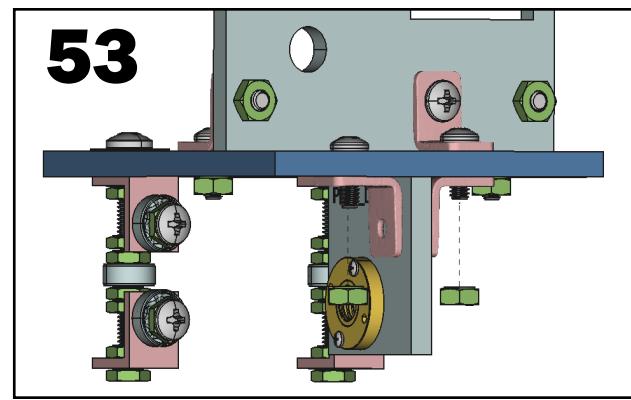
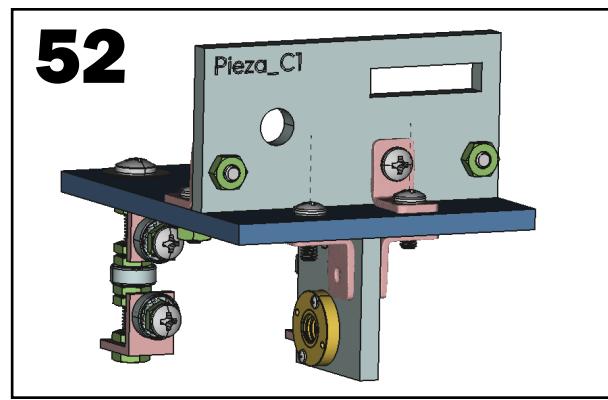
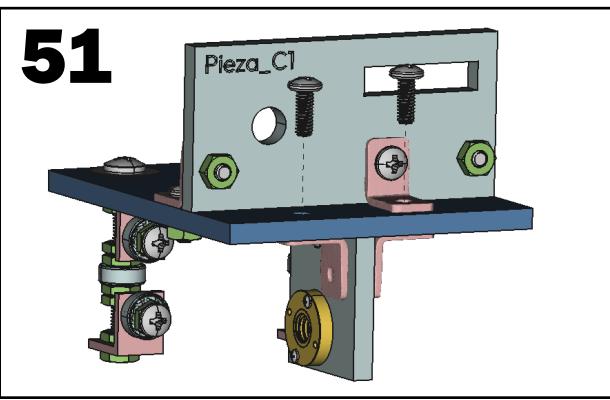
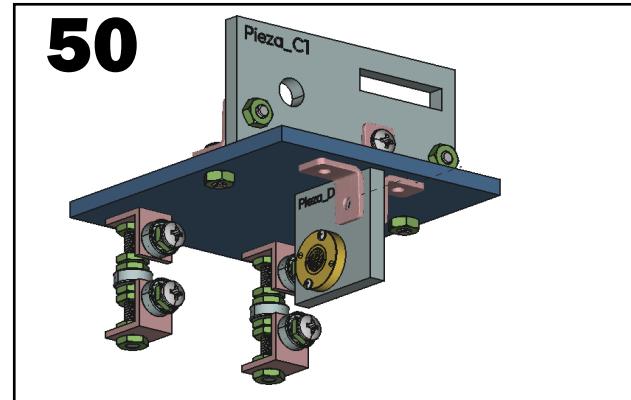
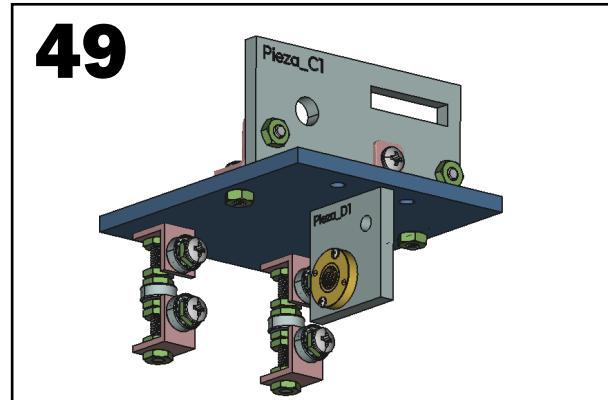
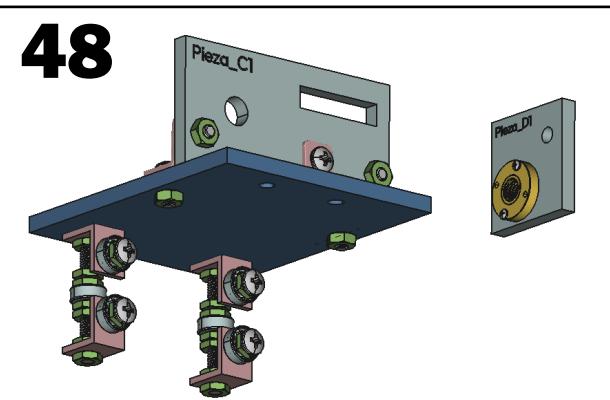
E



# PIEZAS BCD - ED

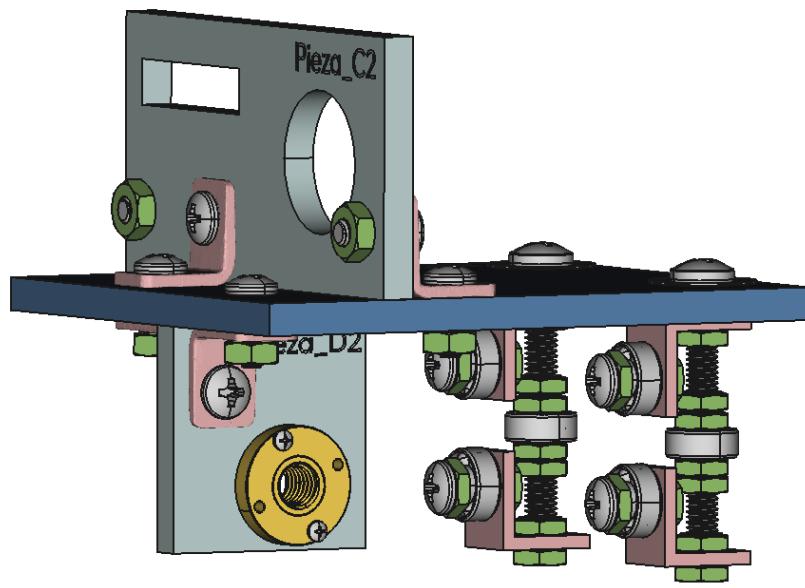


**41****42****43****44****45****46****47** Repetir procedimiento para las piezas:  
Repeat procedure for the parts:

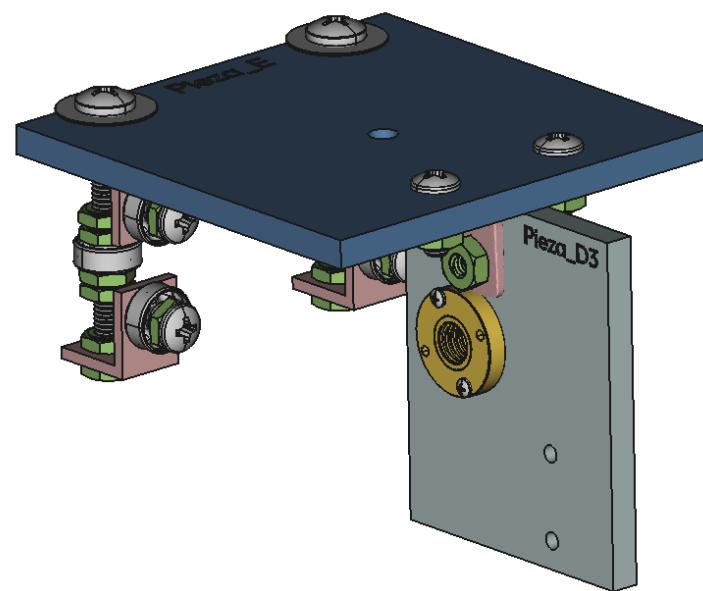


## 57 Repetir el procedimiento para las piezas:

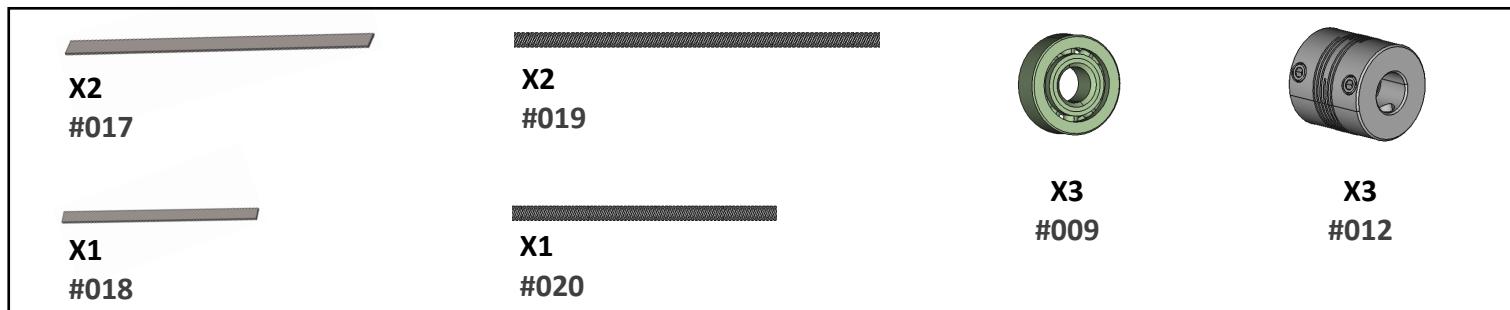
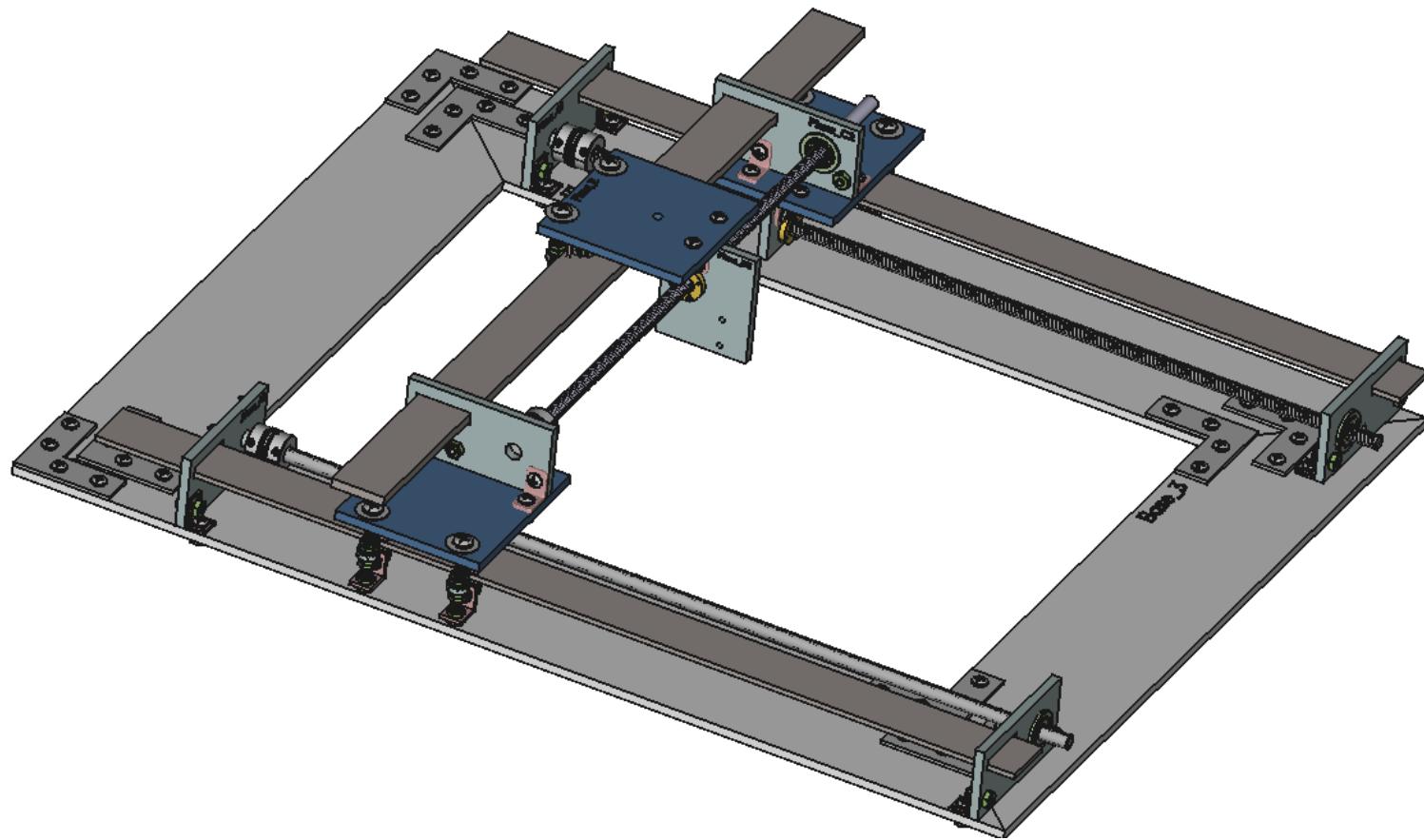
BCD2

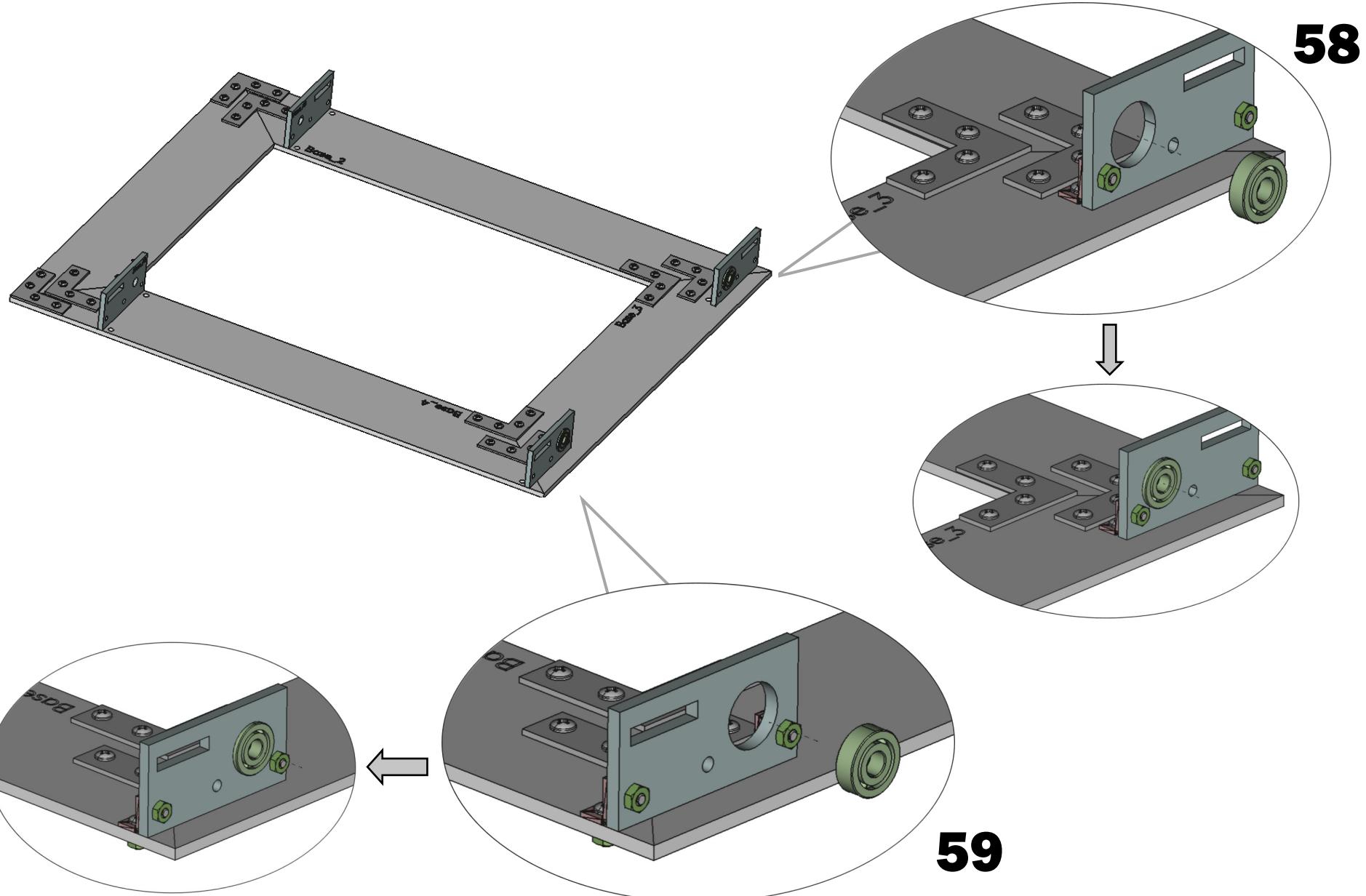


ED

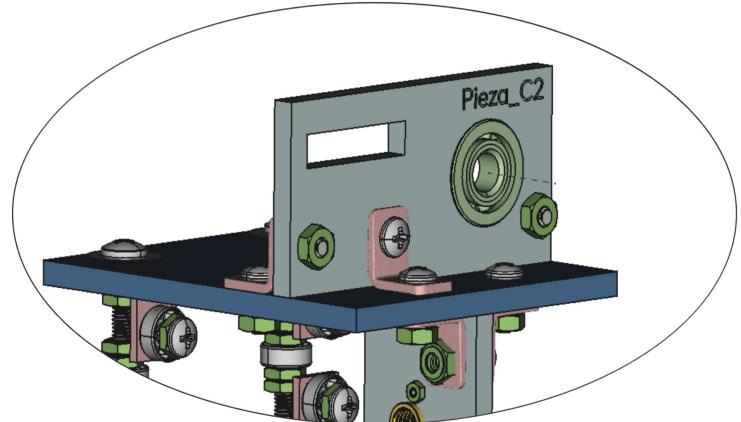
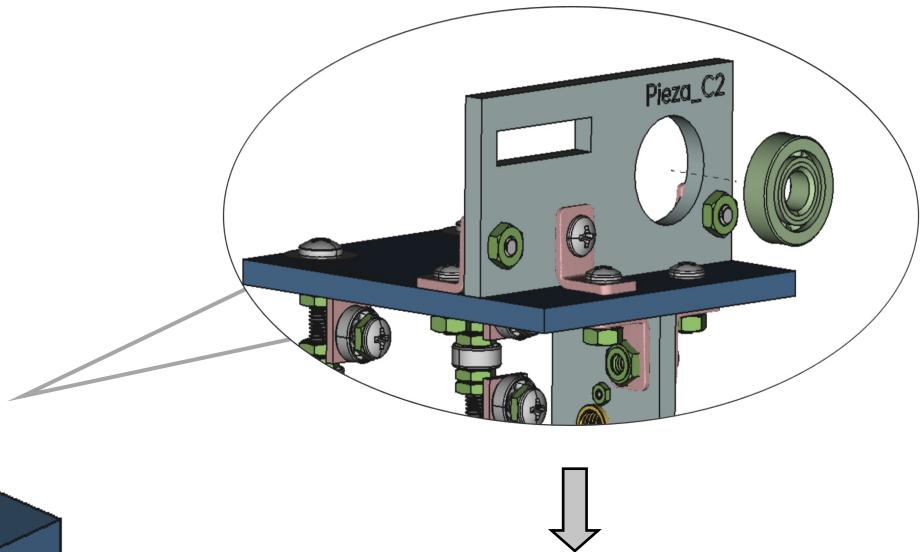
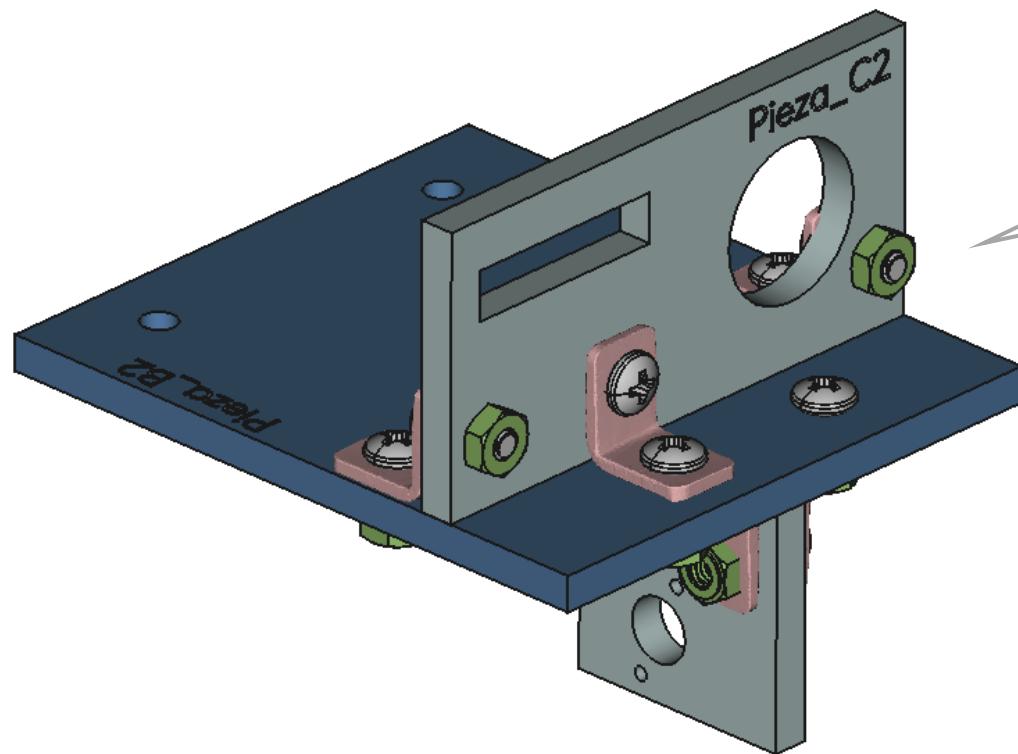


# PARTE 3: ACTUADORES

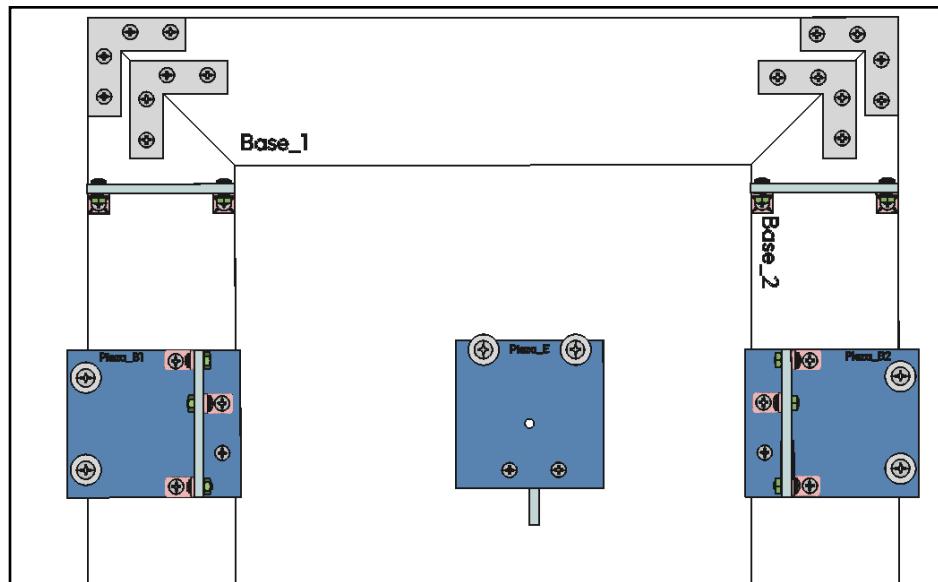




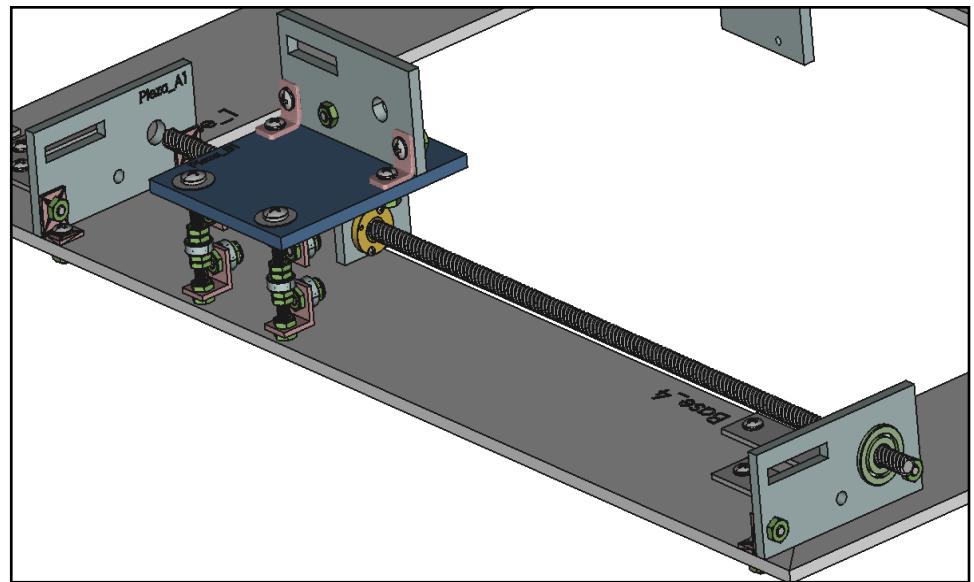
**60**



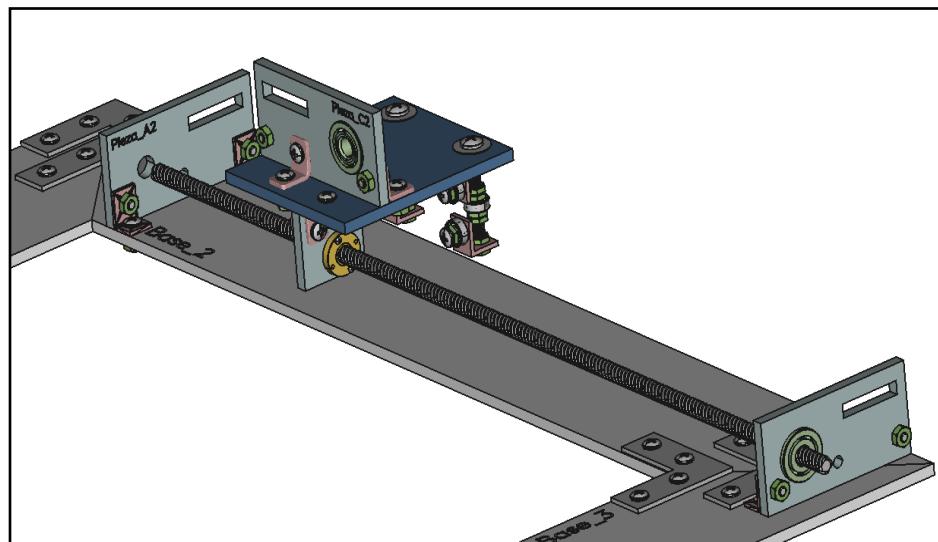
**61** Posicionar las piezas BCD - ED de la siguiente



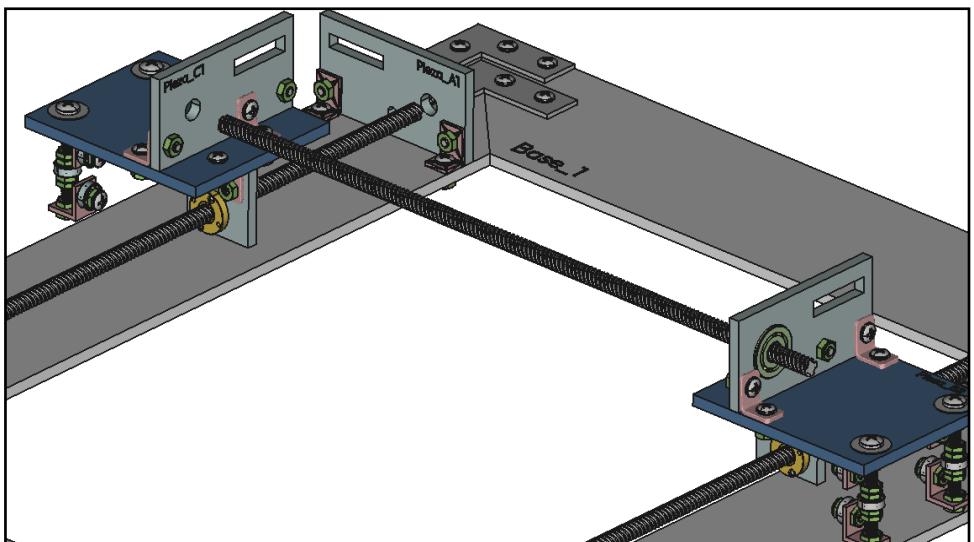
**62** Enroscar tornillo trapezoidal #019 de derecha a izquierda



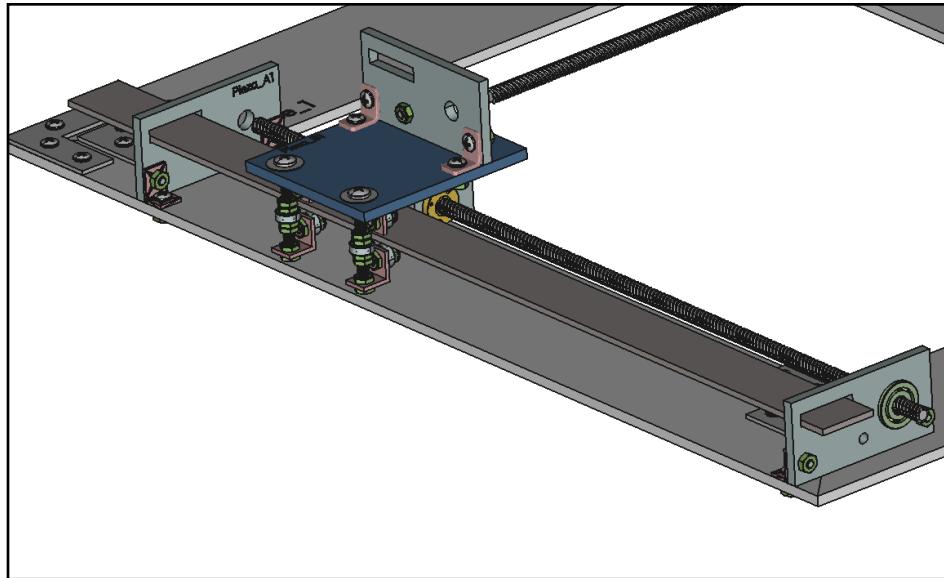
**63** Repetir con trapezoidal #019 - 2



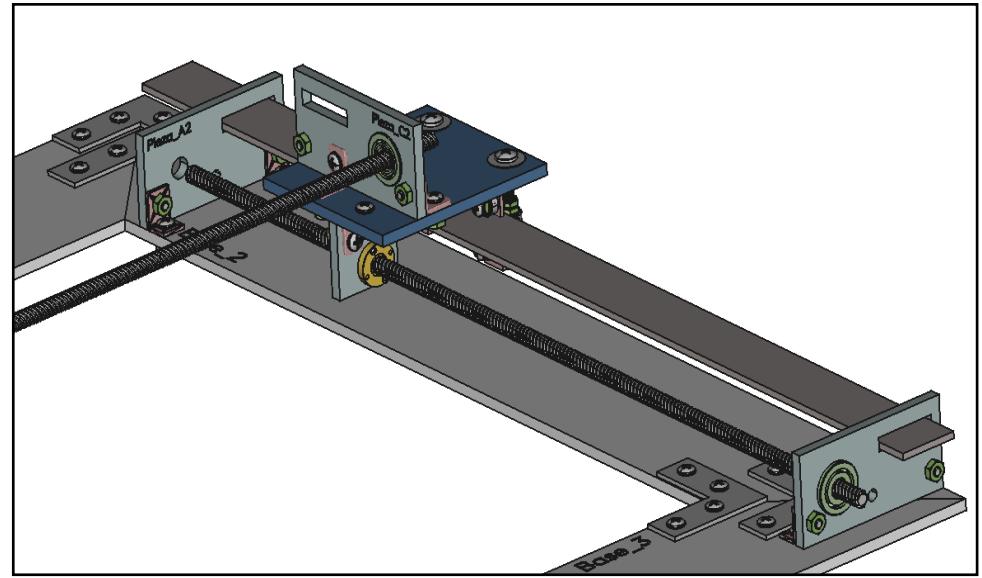
**64** Enroscar tornillo trapezoidal #020 de derecha a izquierda



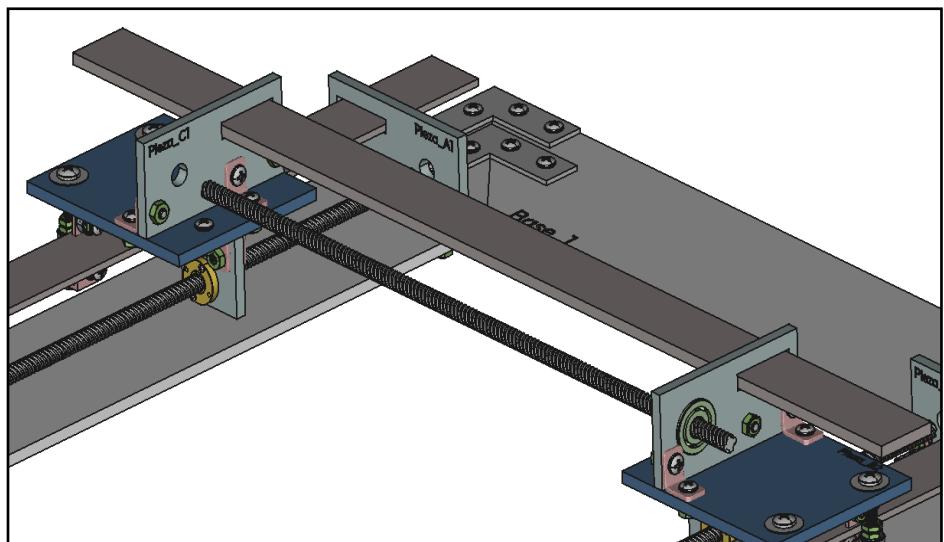
**61** Introducir guía lineal #017 de derecha a izquierda

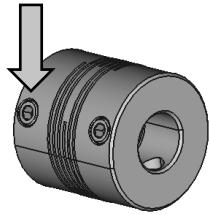


**62** Repetir con guía lineal #017 - 2

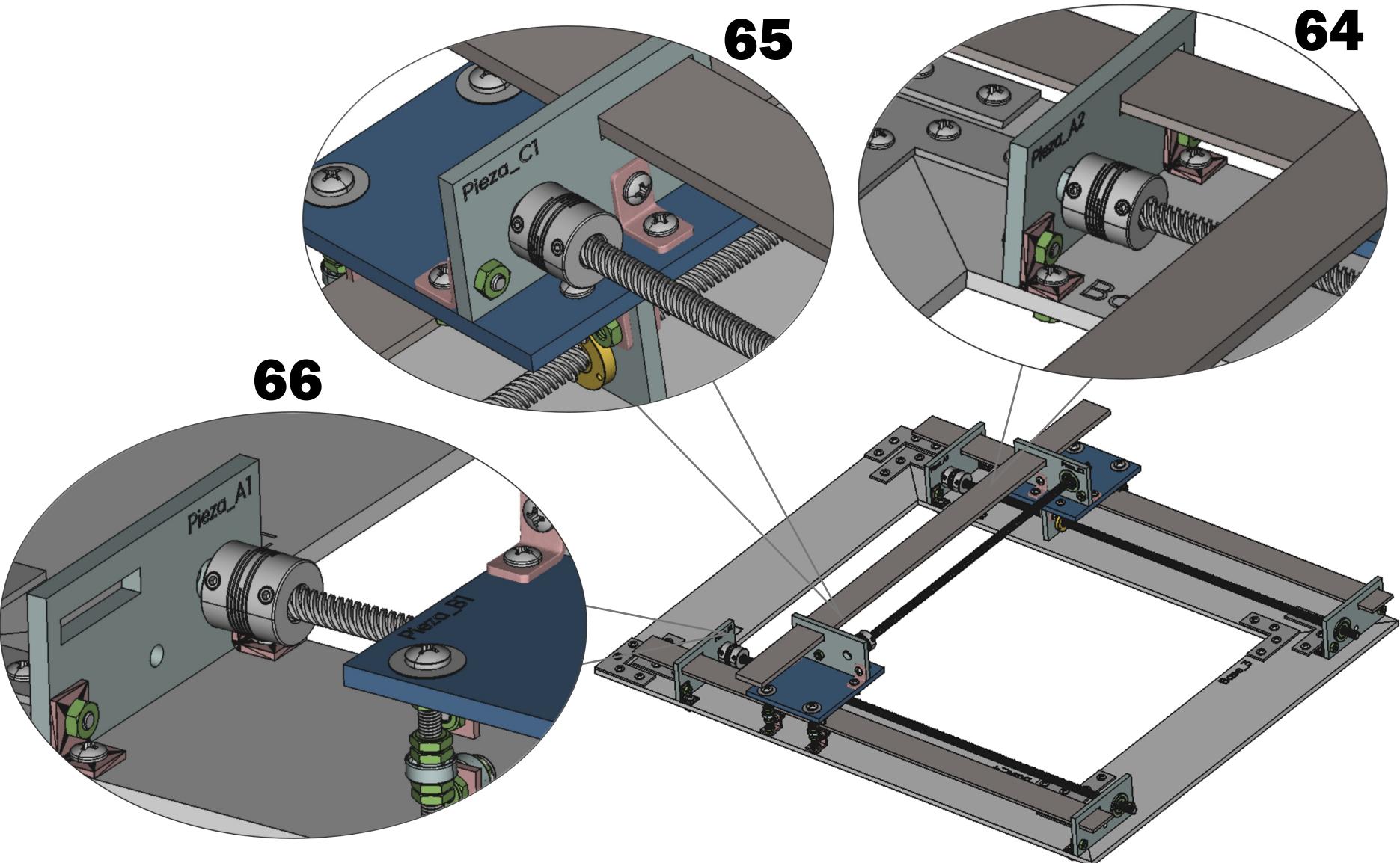


**63** Introducir guía lineal #018 de derecha a izquierda

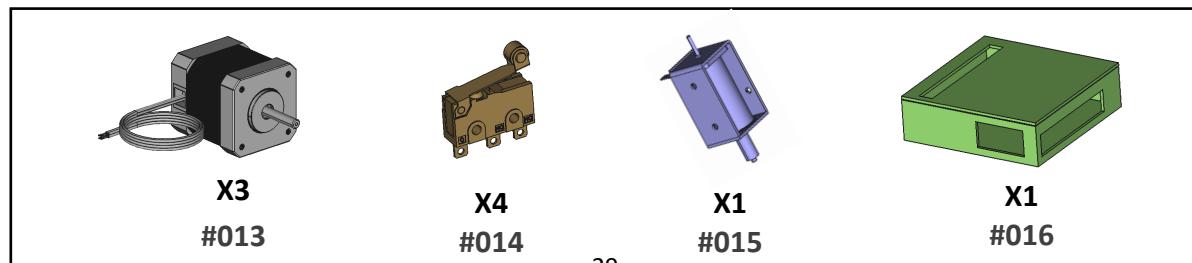
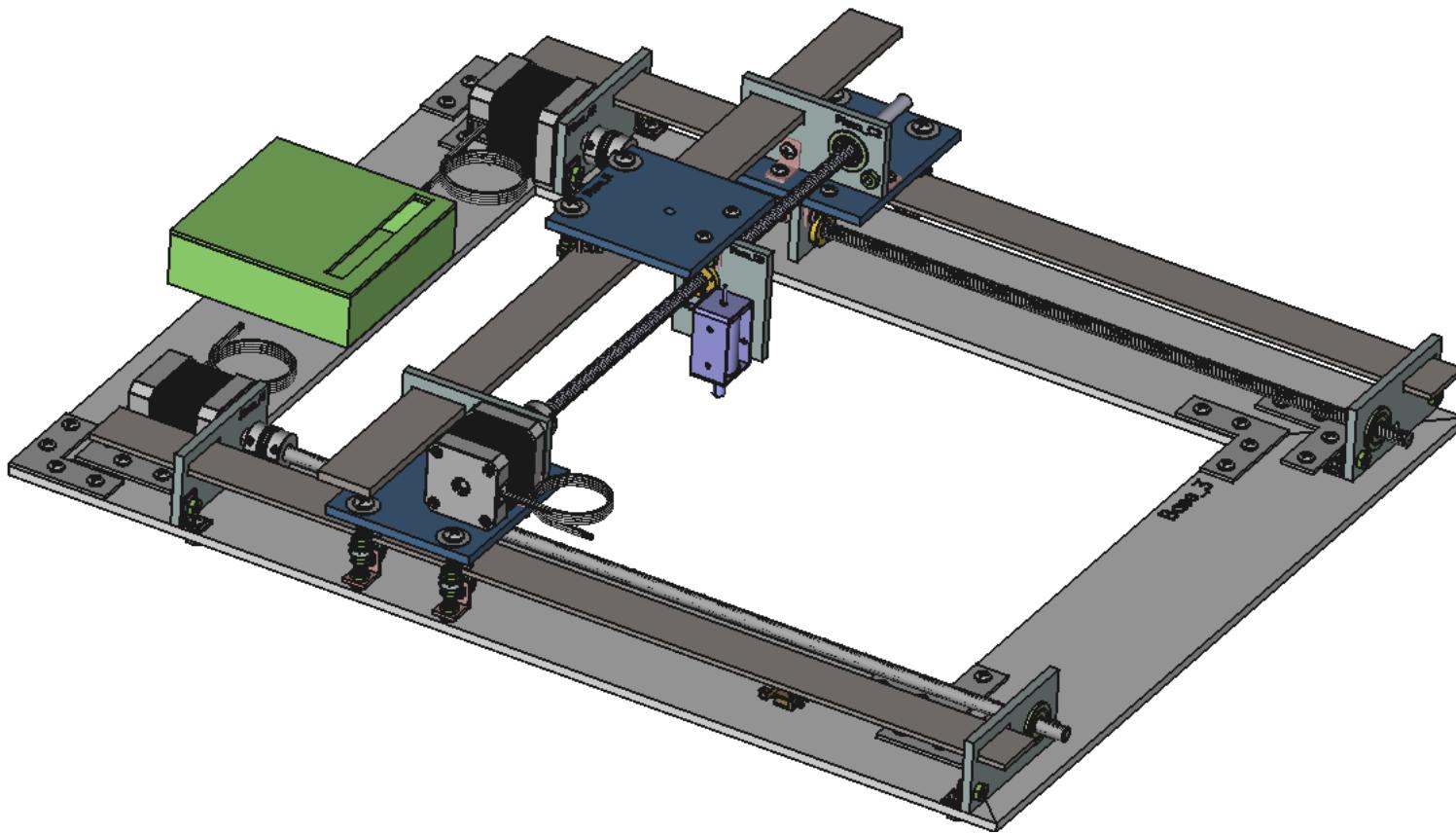


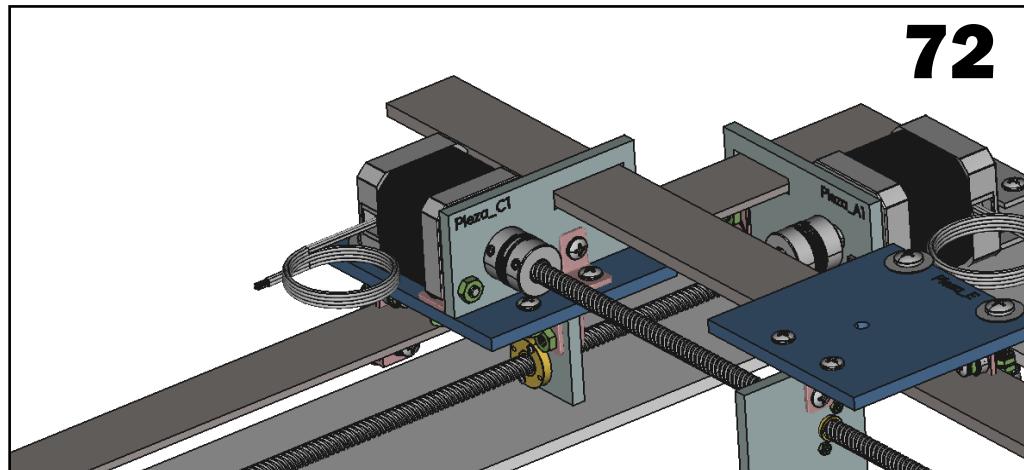
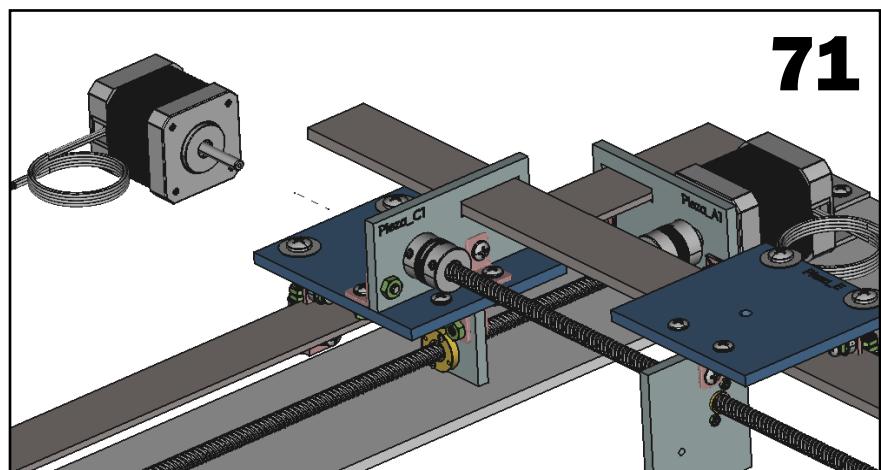
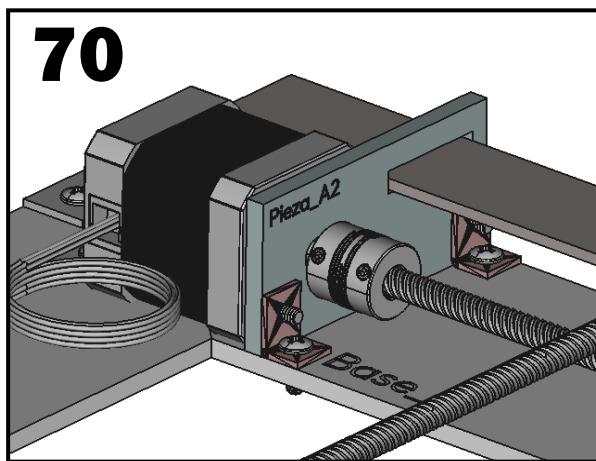
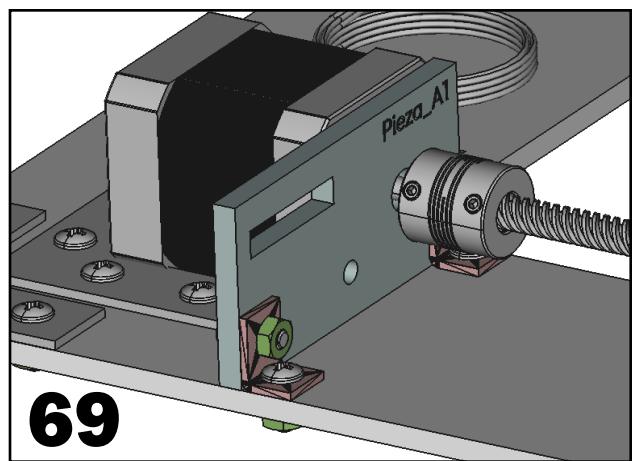
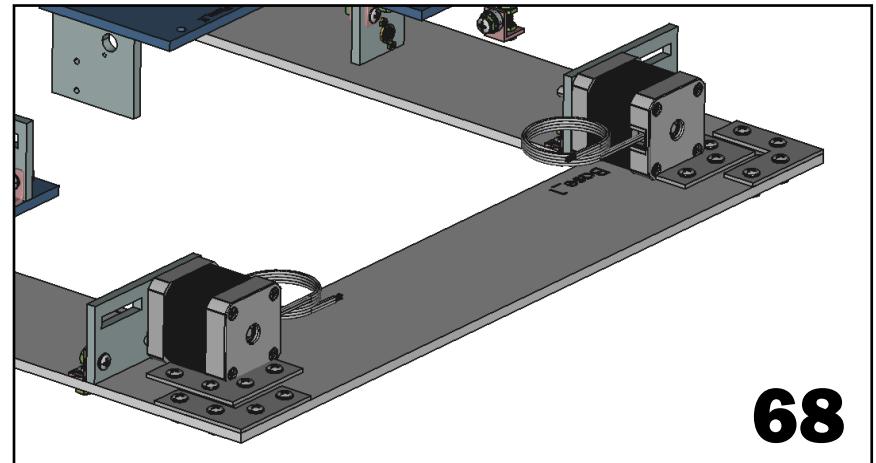
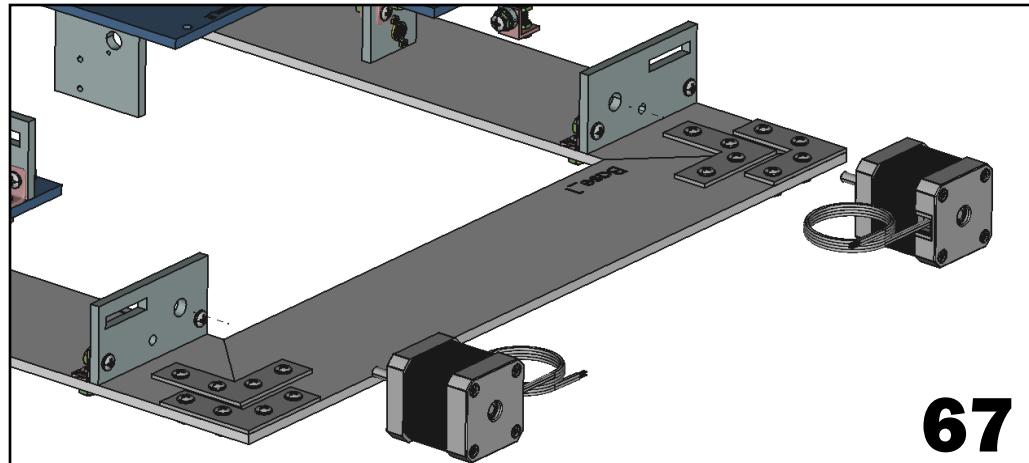


Ajustar los acoplos a los  
tonillos trapezoidales  
con tornillos prisioneros

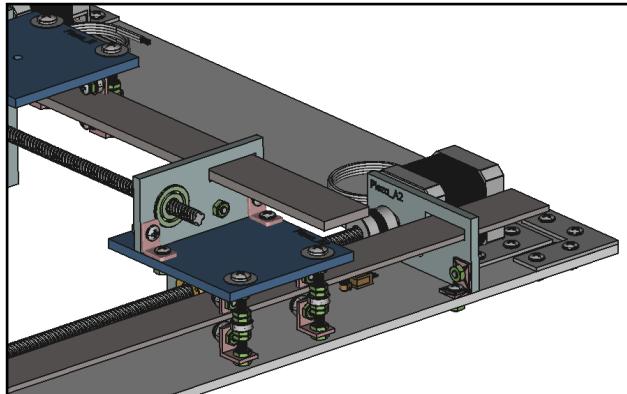


# PARTE 4: COMPONENTES FINALES

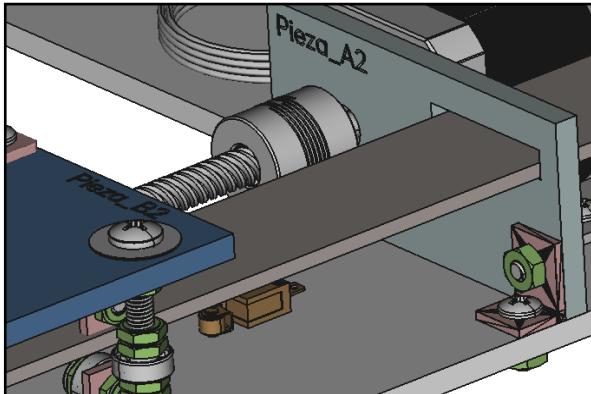




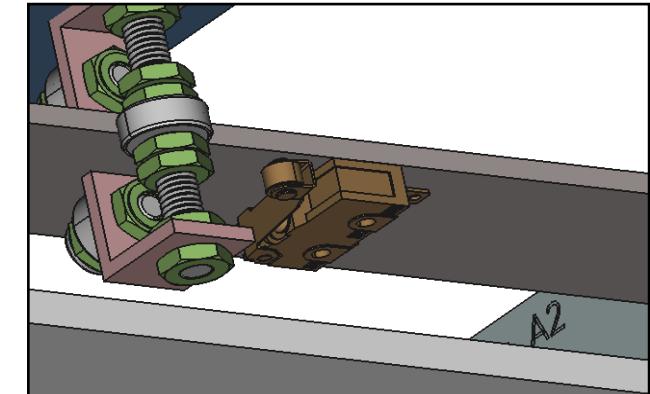
## **73** FIN DE CARRERA #014-1



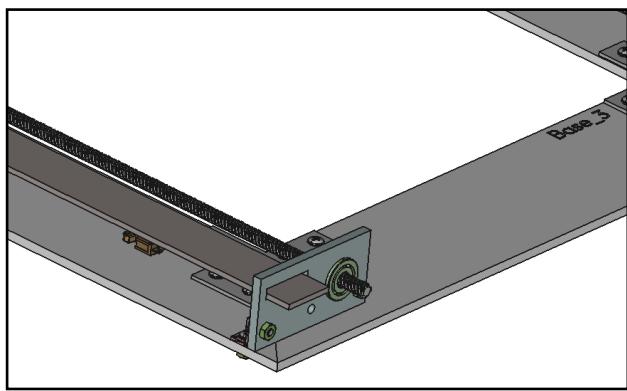
Posicionar a 7cm de Pieza\_A2



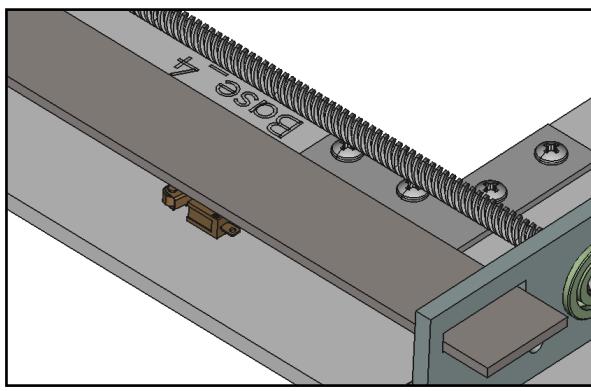
Vista inferior



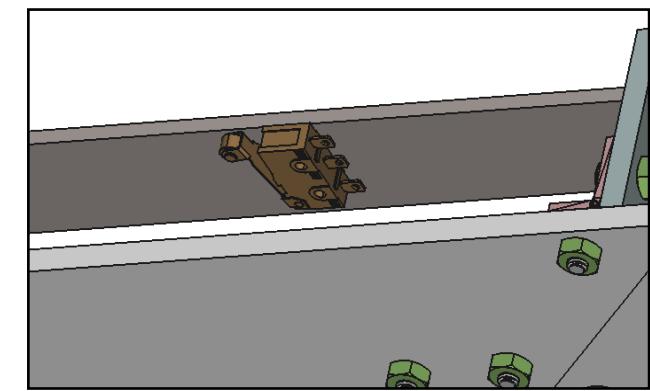
## **74** FIN DE CARRERA #014-2



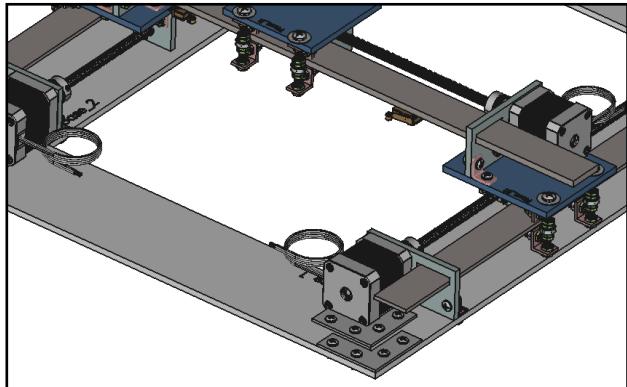
Posicionar a 4cm de Pieza\_A4



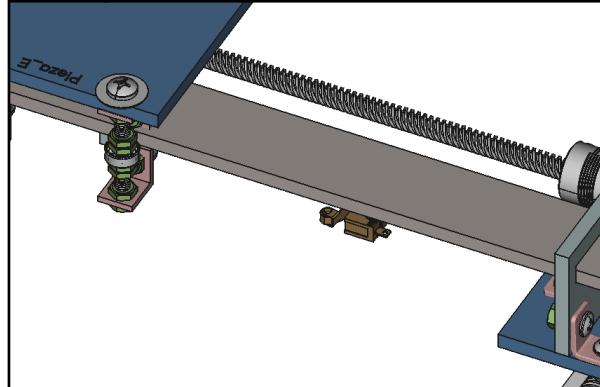
Vista inferior



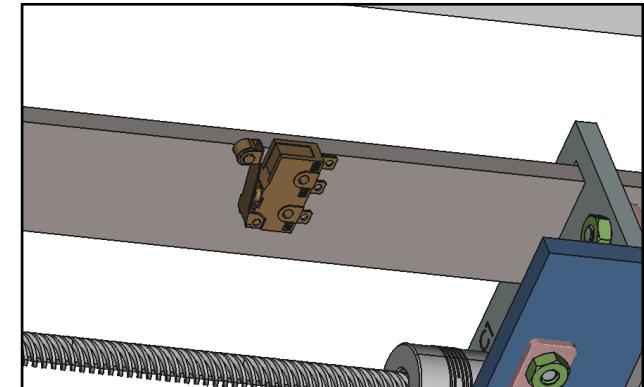
**75** FIN DE CARRERA #014-3



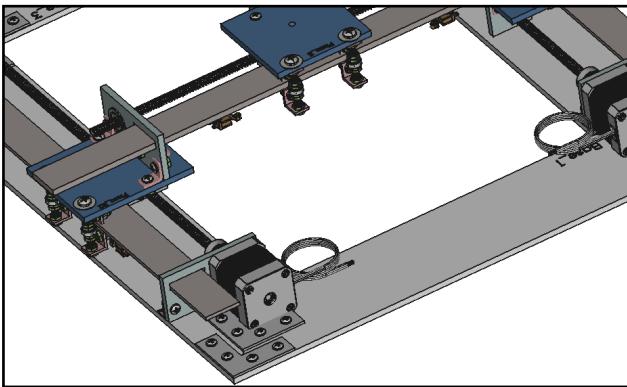
Posicionar a 3cm de Pieza\_C1



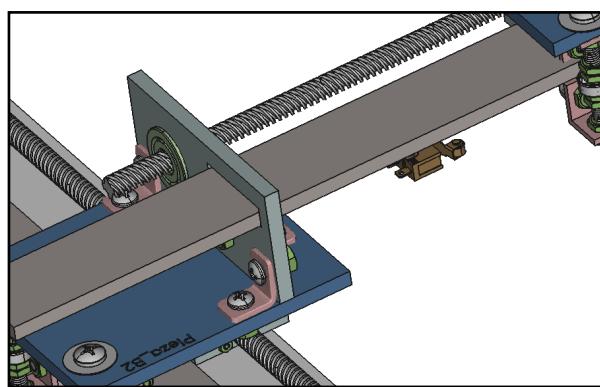
Vista inferior



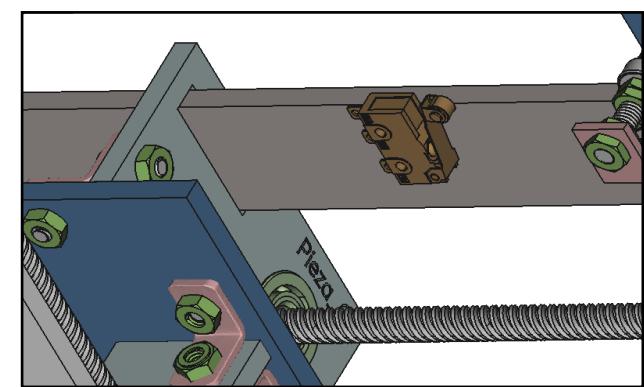
**76** FIN DE CARRERA #014-4



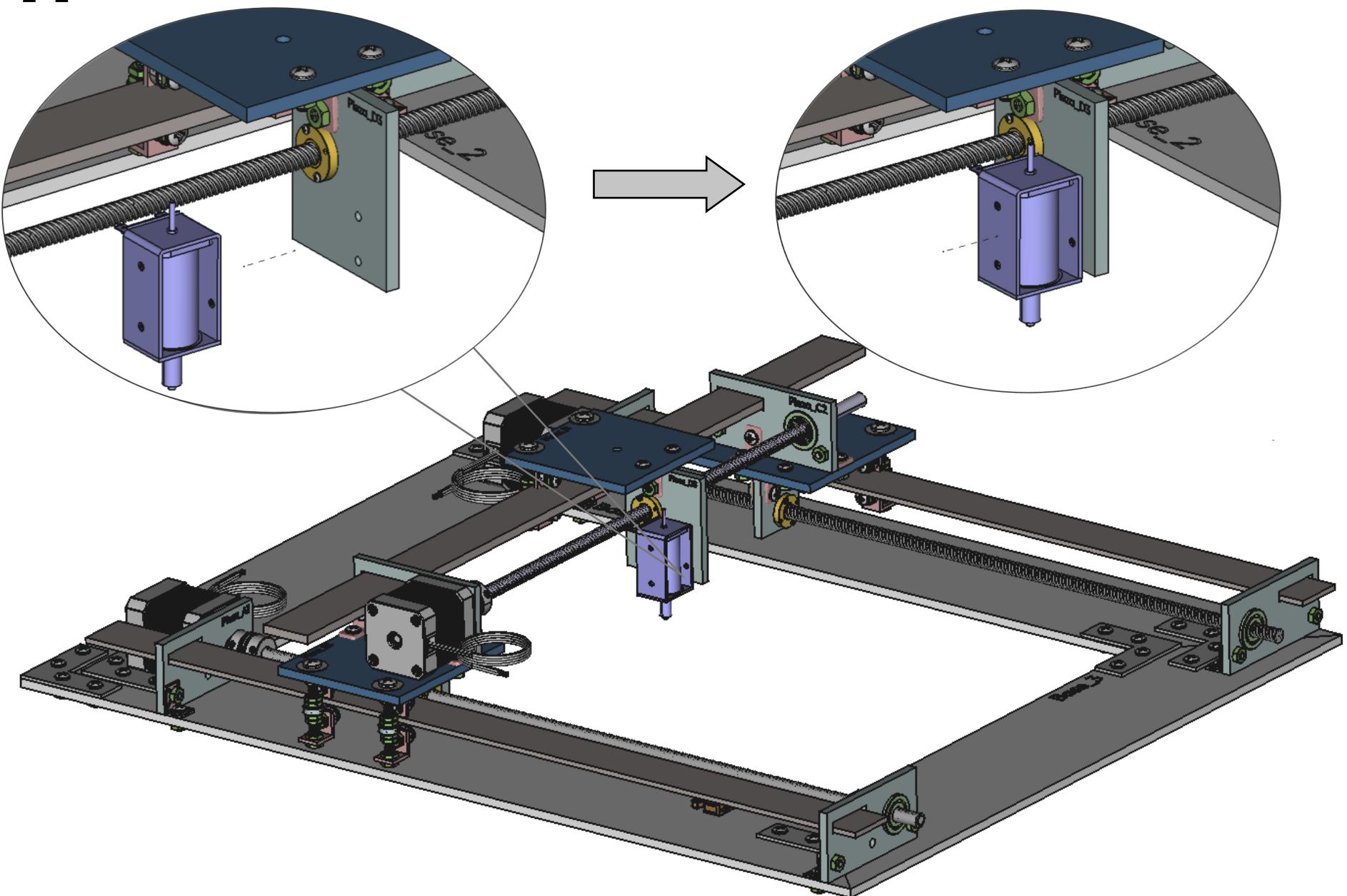
Posicionar a 7cm de Pieza\_C2



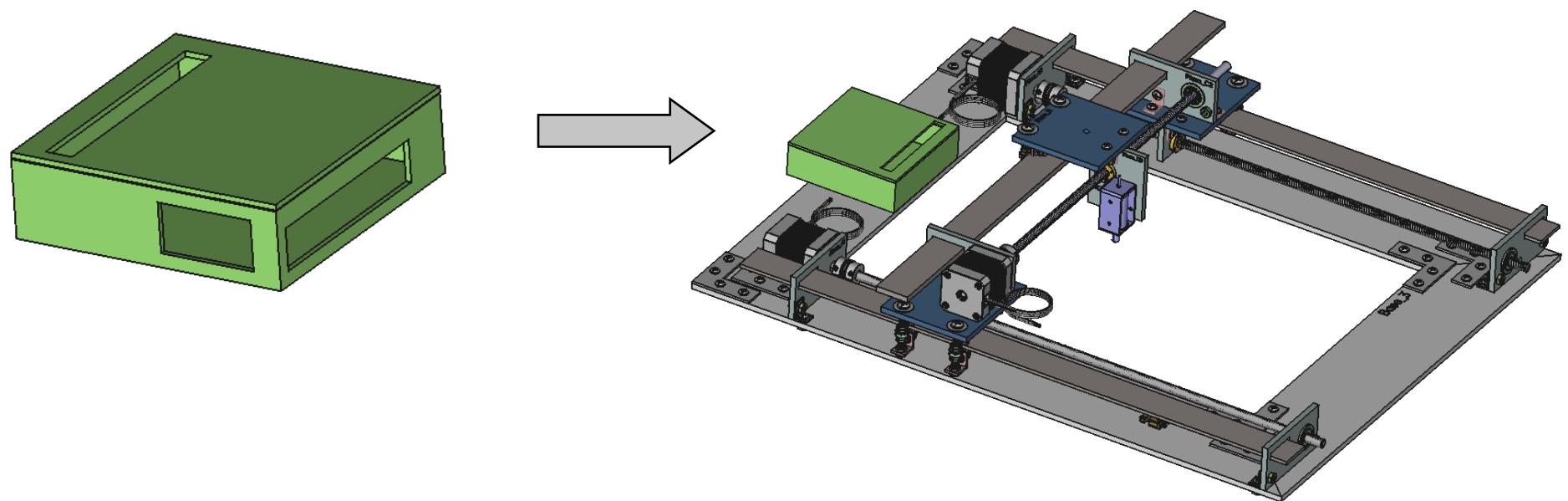
Vista inferior



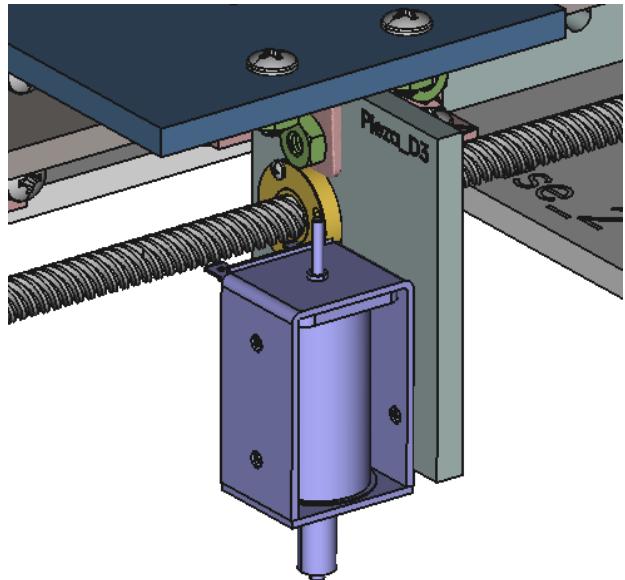
77



**78**



# RECOMENDACIONES



No se recomienda atornillar directamente el solenoide a la **Pieza\_D3**, ya que existe el riesgo de **perforar o dañar la bobina interna**. Como alternativa segura, el solenoide puede sujetarse mediante amarras plásticas (bridas), cinta doble cara de alta resistencia o abrazaderas metálicas, asegurando una fijación firme sin comprometer la integridad del componente.

En caso de que las guías lineales no dispongan de orificios para tornillos, los **fines de carrera** pueden fijarse mediante **cinta doble cara industrial, adhesivo tipo Super Bonder, o silicona estructural**.

Se recomienda verificar que los sensores queden firmes y correctamente alineados con el eje de movimiento para garantizar una **detección precisa de los límites de recorrido**.

La orientación del solenoide (ya sea hacia el frente o hacia la parte posterior) **no afecta el funcionamiento general de la impresora**. Sin embargo, se recomienda **ajustar correctamente la hoja y los fines de carrera** para asegurar que el área de trabajo cubra la totalidad del campo de impresión necesario.

