

Assembly Instruction

TSG in Thyssen HD & TSG in Dover HD

assembly on the door frame p. 7-26

assembly on the lift cabin roof p. 27-48

scope of supply

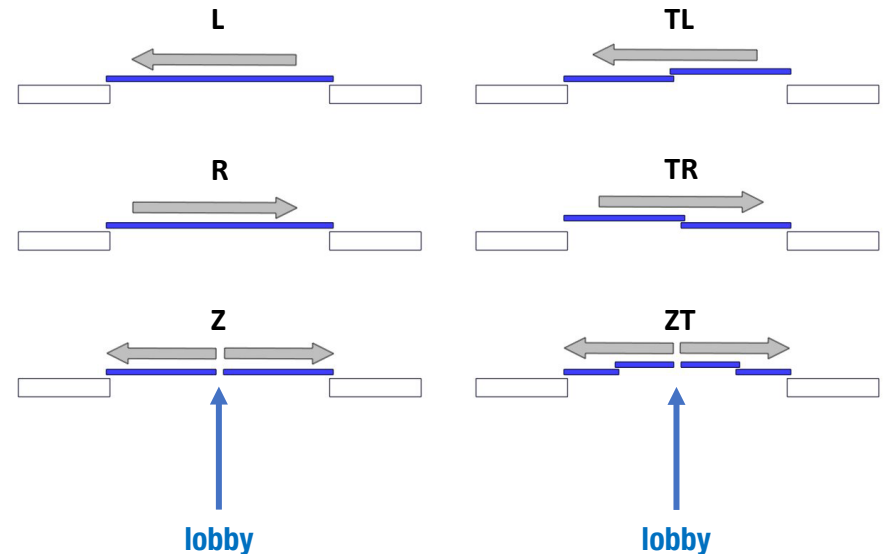


picture	number	description EN	quantity
	8.20.xxxxx.04	TSG V4 Lift Door Operator -Electronic extern- 230[VAC]/50-60[Hz]	1
	8.20.4000x.D2	motor large right/left & gearbox, wit wheel, 24V/1:15	1
	1.20.60060	TSG universal bracket, version 'hat', for TSG motor or counter roller	2
	1.20.60680	motor bracket USA adapter for motor large	2
	1.20.92020	TSG door panel coupler, rectangular, with oblong holes	2
	1.20.60007	TSG toothed belt lock, steel, mirror image	2
	1.20.60004	TSG door panel coupler	1
	1.20.60690	bracket for Thyssen HD Harmonic Drive	2

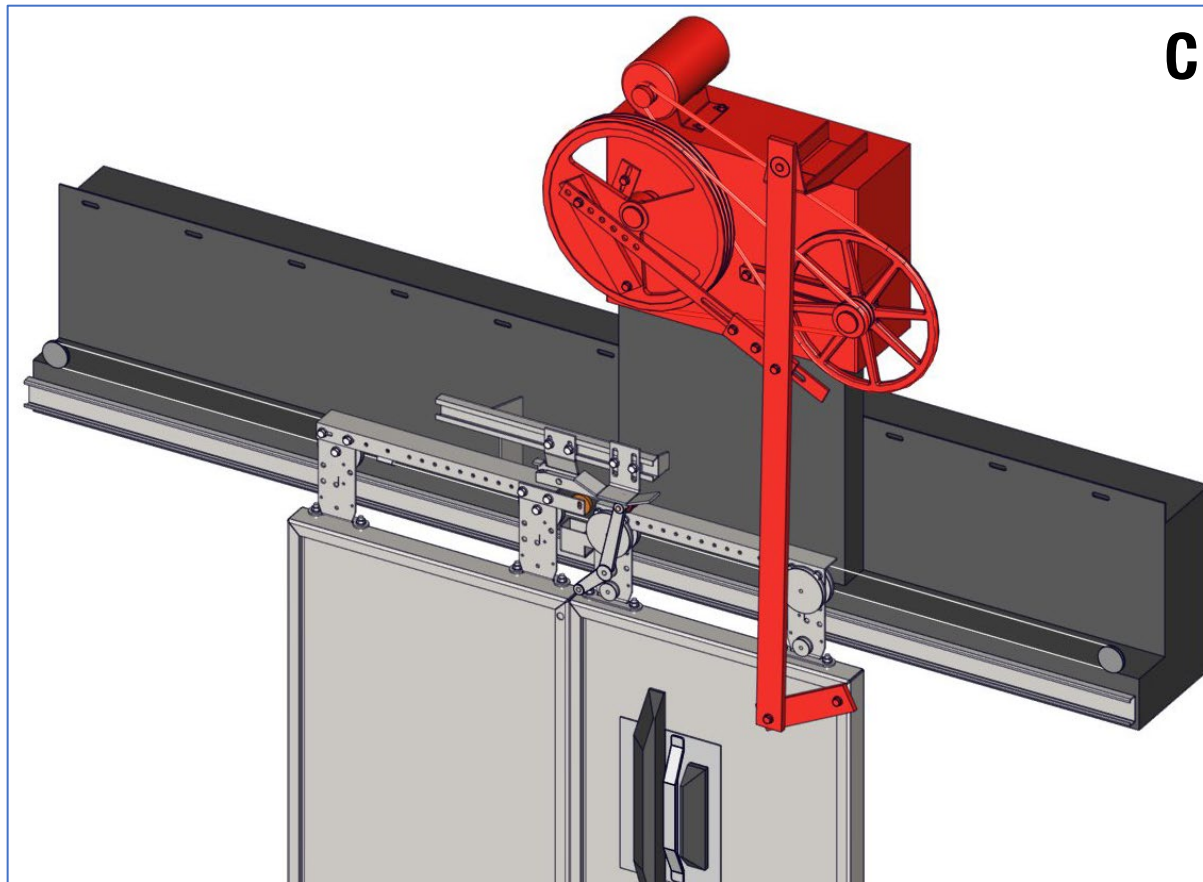
picture	number	description EN	quantity
	1.20.92010	fixing plate for combi bracket 'hat', rectangular, with slotted holes	2
	1.20.92090	mounting bracket for combi bracket 'hat' small, rectangular, with slotted holes	2
	8.20.10010	TSG brackets for conversion, in carton	1
	8.20.60002.50	TSG timing belt [5,0m]	1
	1.36.00138	hexagon head serrated screw WN0274 A2C 8.8 - M6x16	4
	1.36.00358	countersunk head screw w.recessed head DIN7991 vz8.8 - M6x12	4
	1.36.00501	serrated locking nut, similar to DIN6923 vz - M8	18
	1.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	20

door hand diagram

GER	BE	AE	FR
L (links öffnend)	L (left opening)	L (left opening)	OG (ouverture gauche)
R (rechts öffnend)	R (right opening)	R (right opening)	OD (ouverture droite télescopique)
TL (teleskopierend links öffnend)	TL (telescoping left opening)	TL (telescoping left opening)	OG (ouverture gauche télescopique)
TR (teleskopierend rechts öffnend)	TR (telescoping right opening)	TR (telescoping right opening)	OD (ouverture droite télescopique)
Z (zentral öffnend)	C (central opening)	C (central opening)	OC (ouverture centre)
ZT (zentral teleskopierend öffnend)	CT (central telescoping opening)	CT (central opening two speed)	OCT (ouverture centrale télescopique)
V (Vertikal öffnend)	V (vertical opening)	V (vertical opening)	OV (ouverture verticale)
FT (Falttür)	FD (folding door)	FD (folding door)	AOC (porte accordéon)

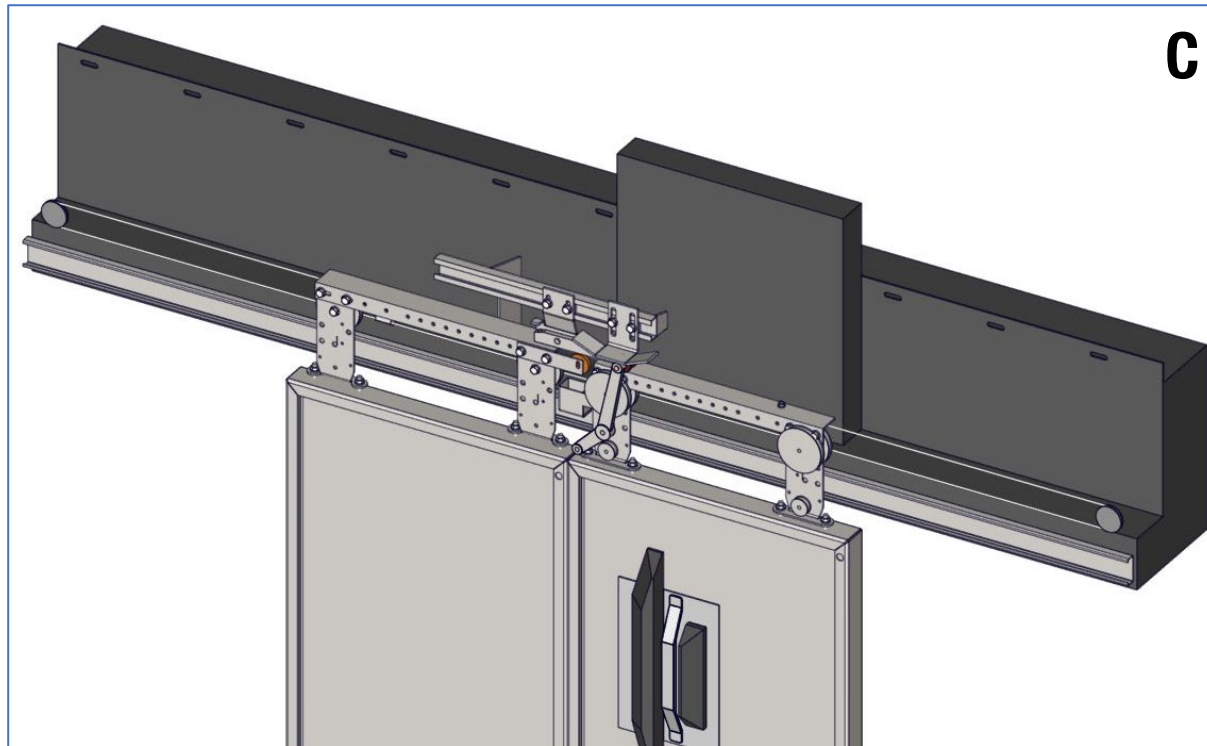


remove before conversion



TR assembly as for C
TL mirrored

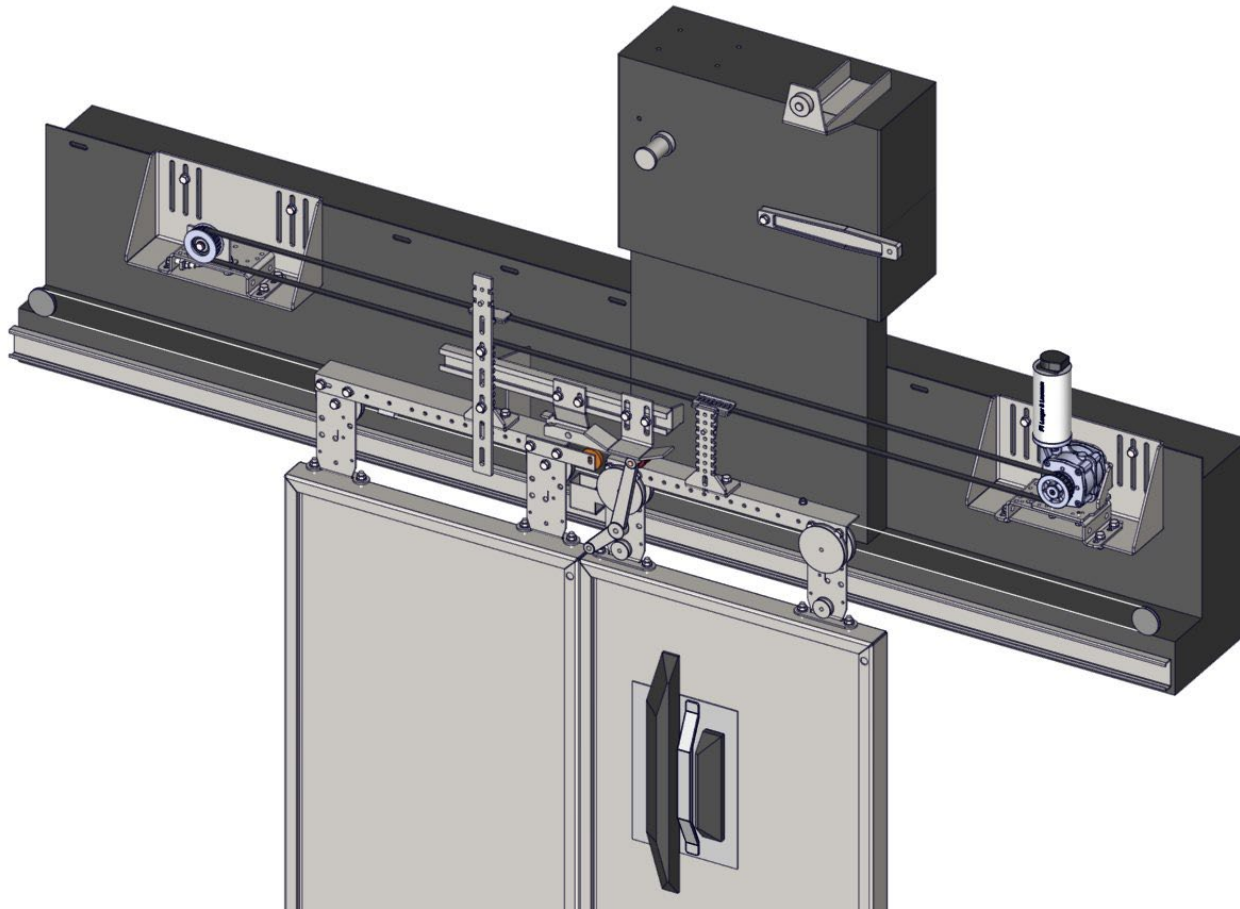
after disassembly



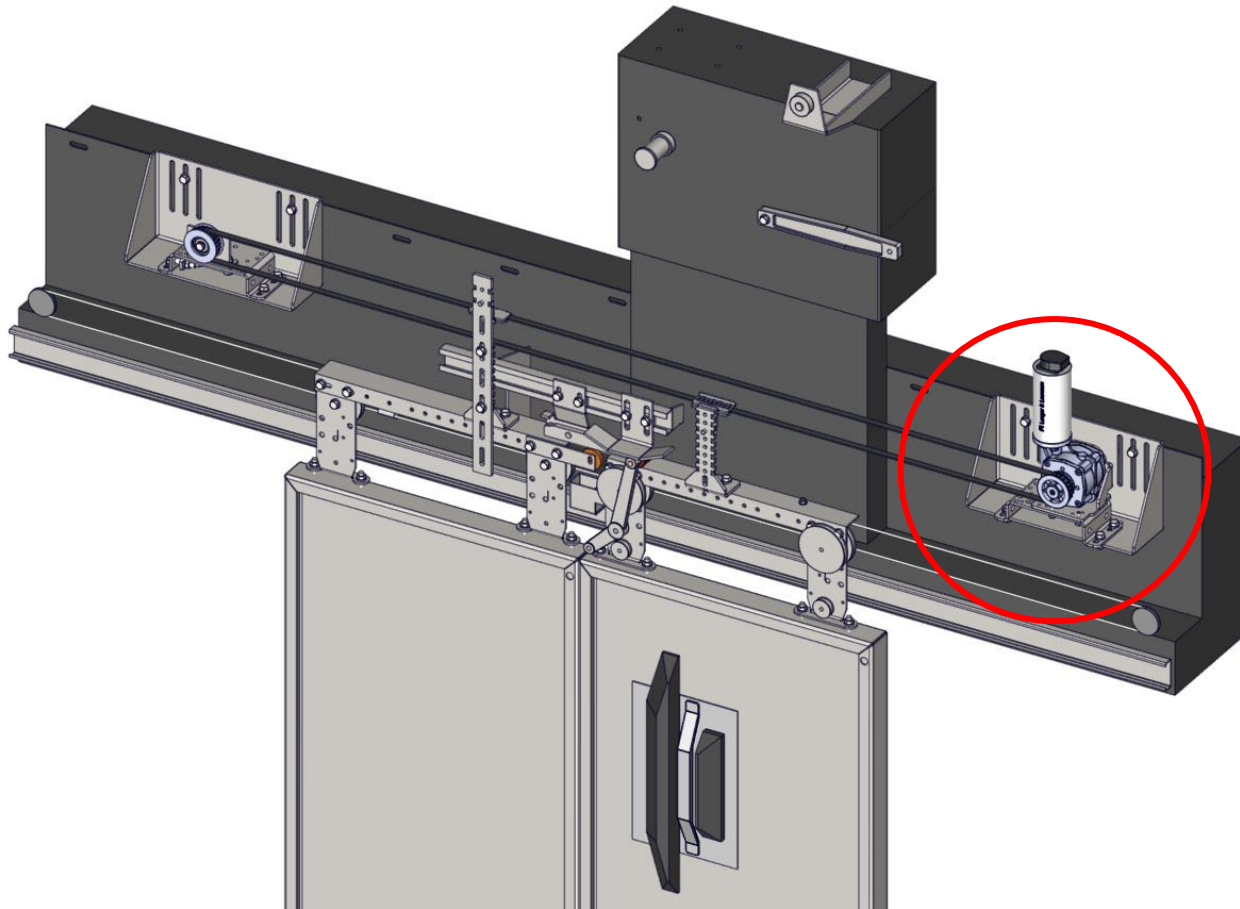
TR assembly as for C

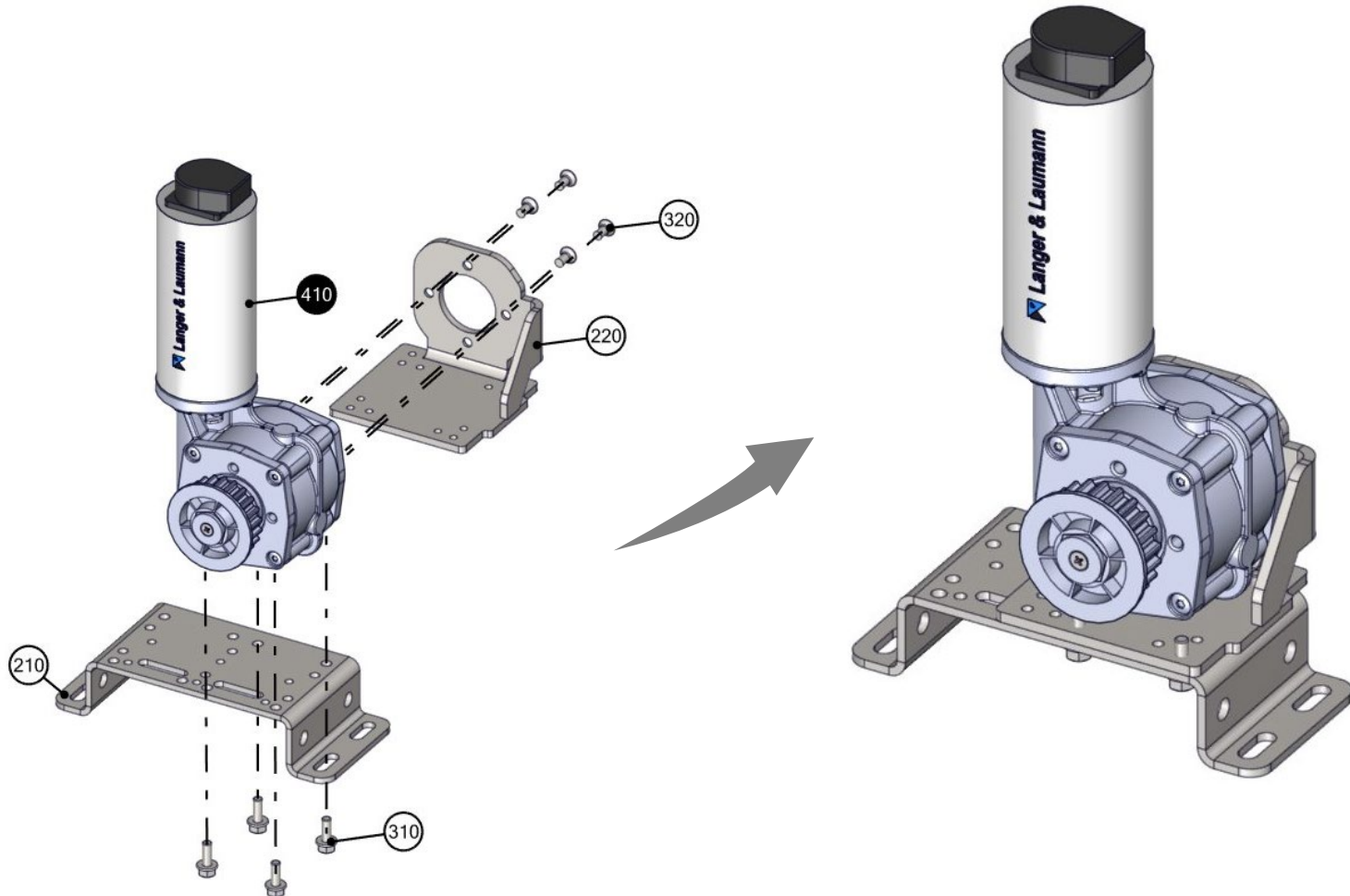
TL mirrored

TSG in Thyssen HD assembly on the door frame

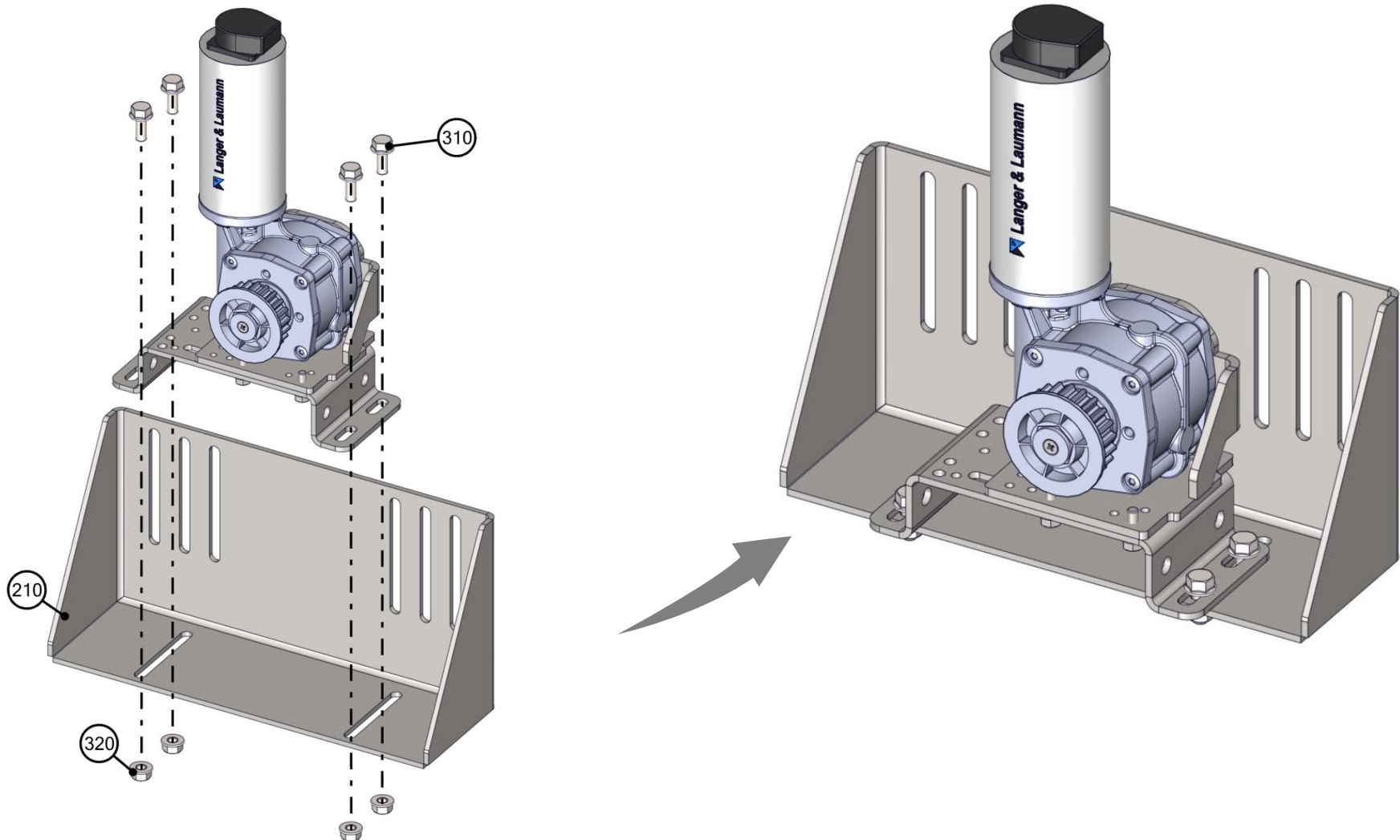


assembly of the motor

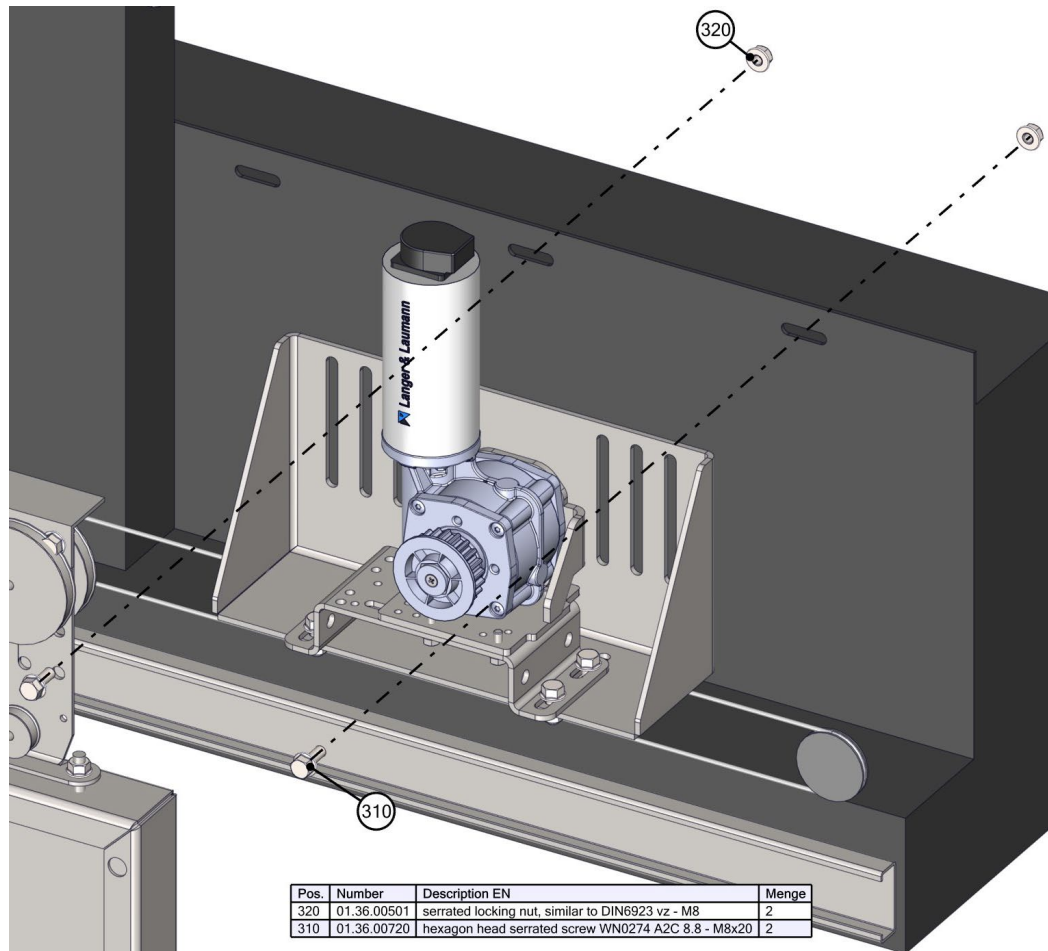




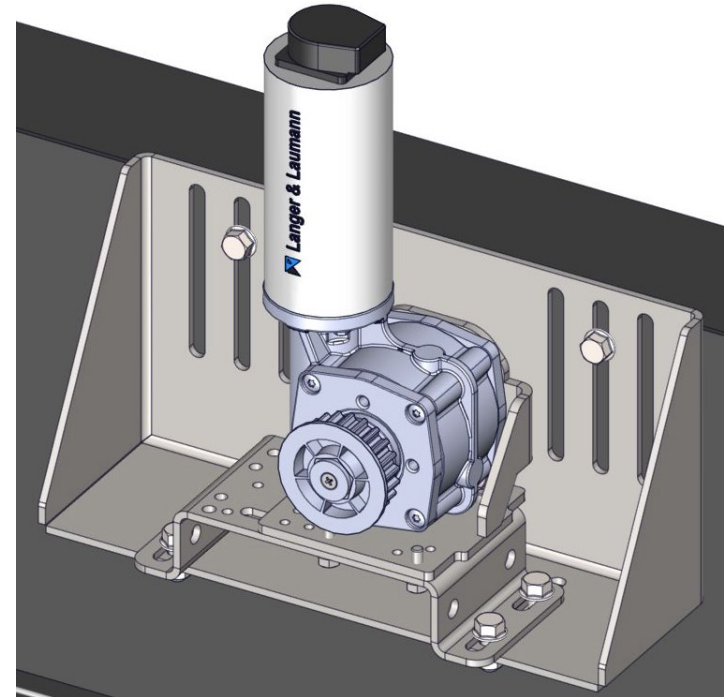
Pos.	Number	Description EN	Menge
210	01.20.60060	TSG universal bracket, version "hat"	1
220	01.20.60680	motor bracket USA adapter for motor big	1
310	01.36.00138	hexagon head serrated screw WN0274 A2C 8.8 - M6x16	4
320	01.36.00358	countersunk head screw w.recessed head DIN7991 v28.8 - M6x12	4
410	08.20.40001.D2	motor large right & gearbox, 24V/4,9A/1:15	1



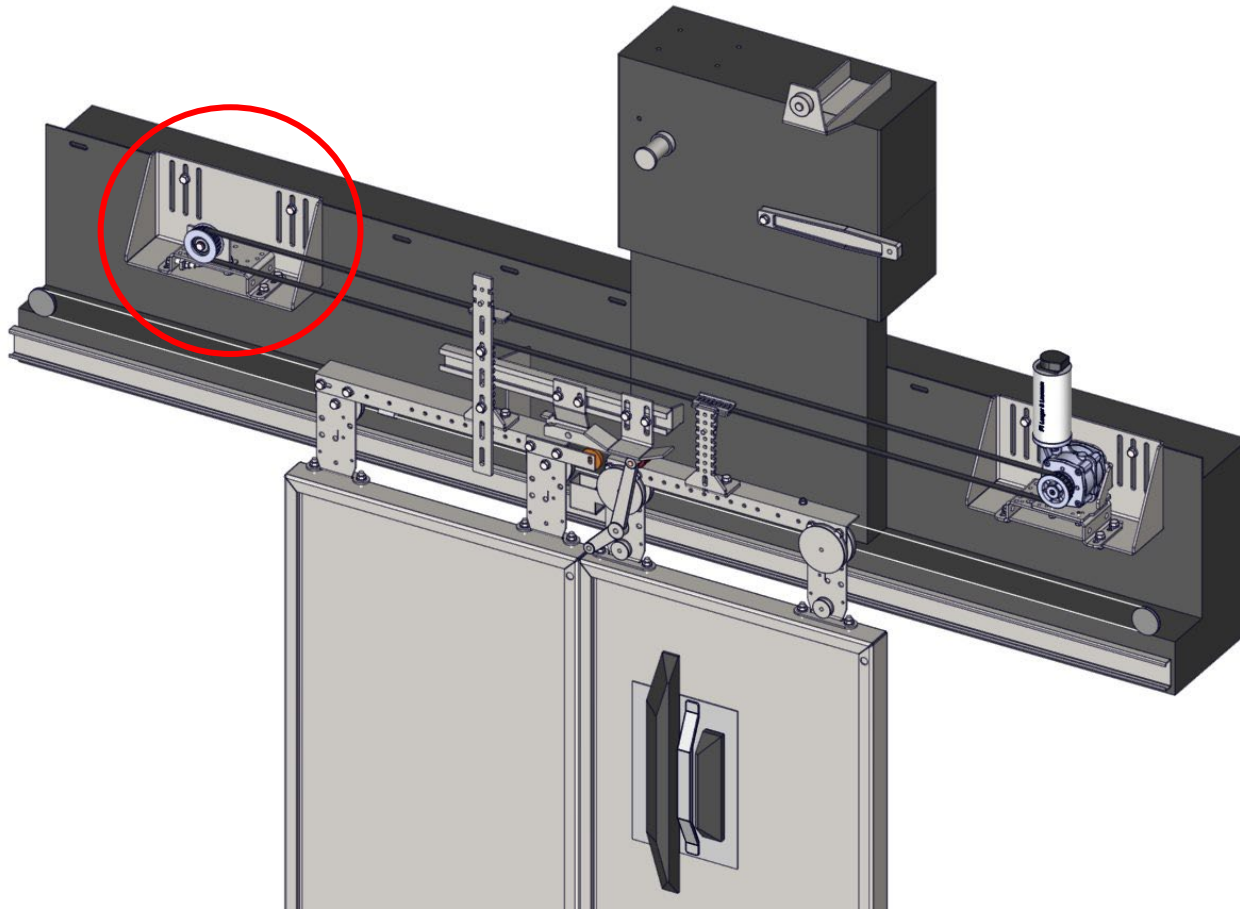
Pos.	Number	Description EN	Menge
210	01.20.60690	bracket for Thyssen HD Harmonic Drive	1
320	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	4
310	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4

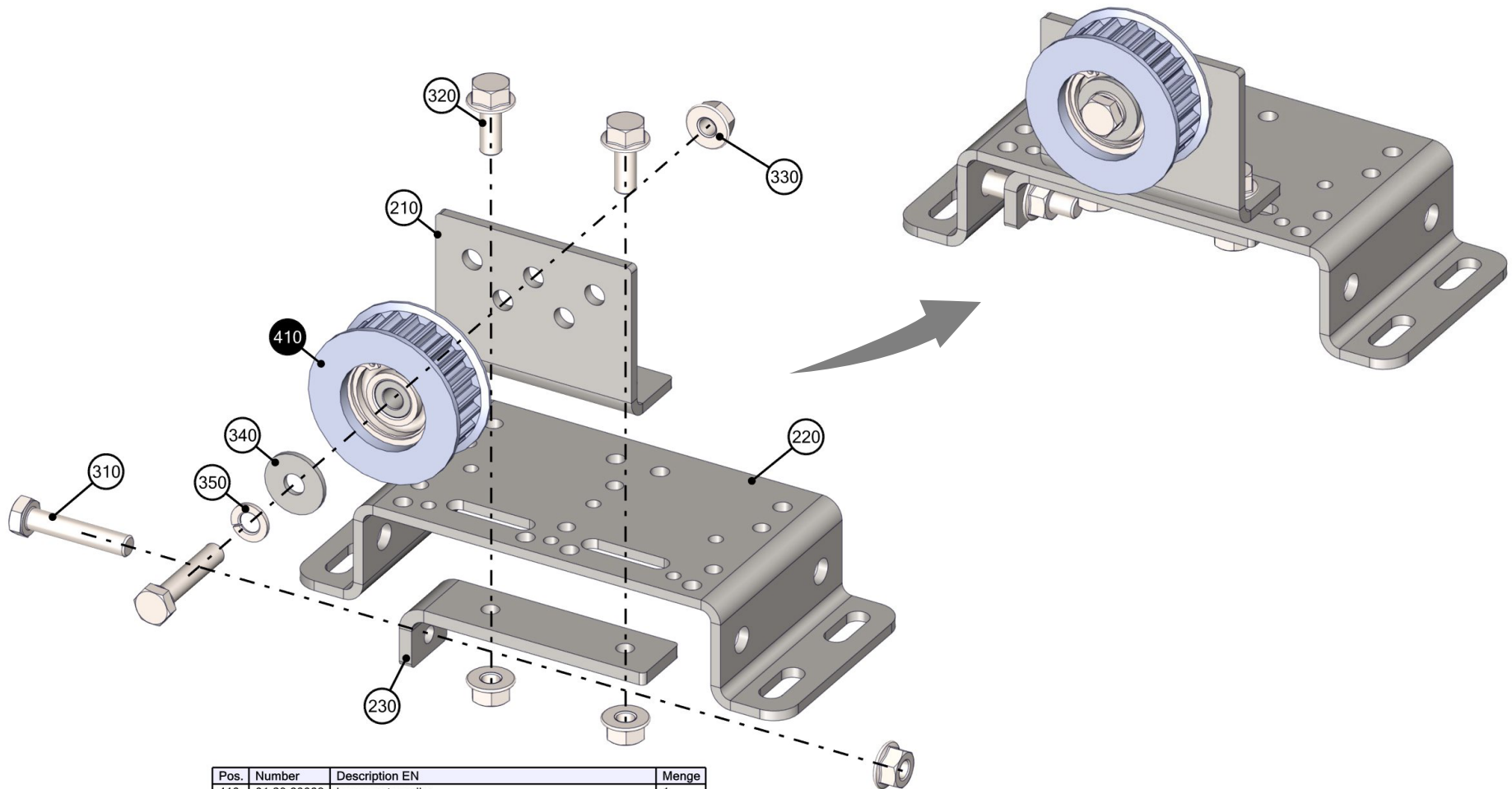


Pos.	Number	Description EN	Menge
320	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	2
310	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2

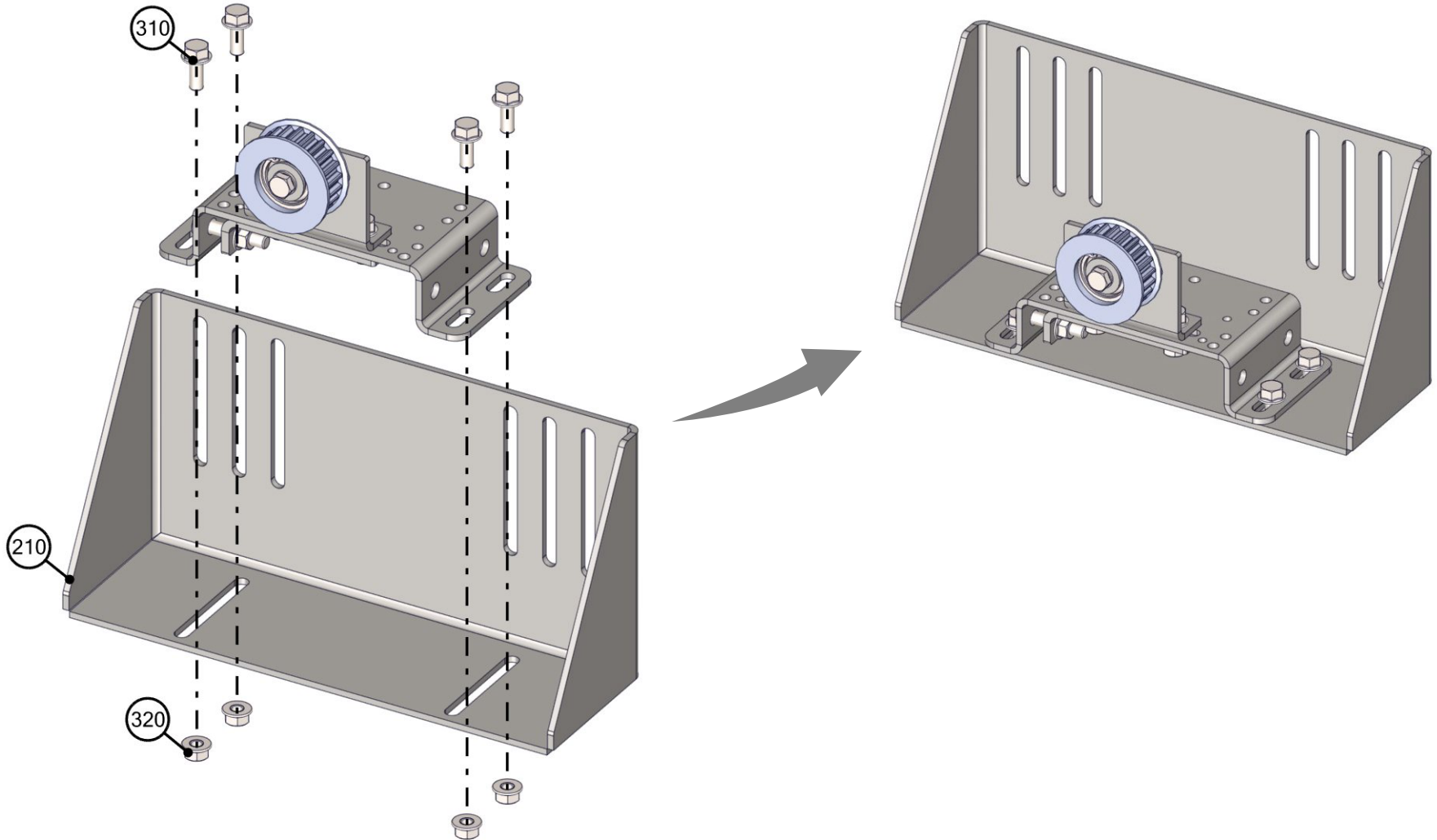


assembly of the counter roller

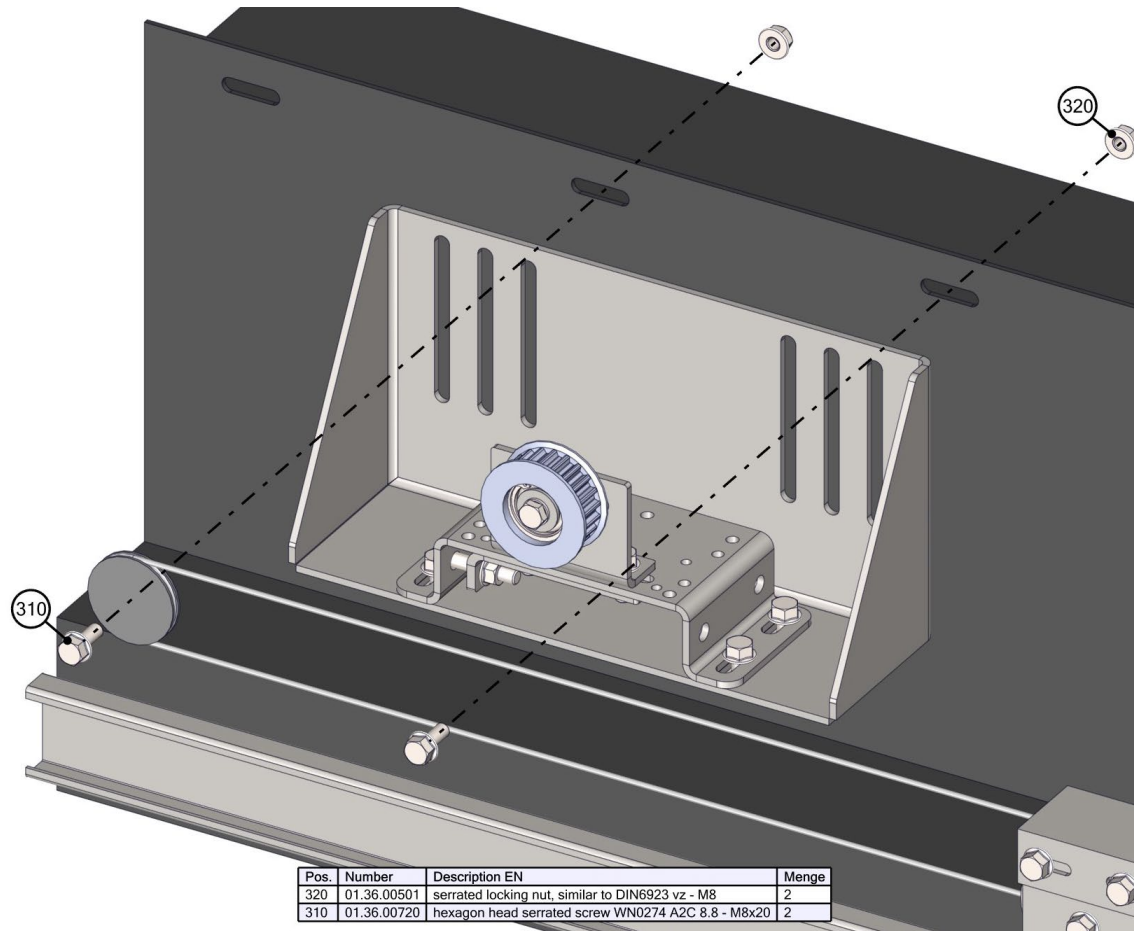




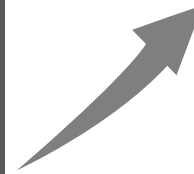
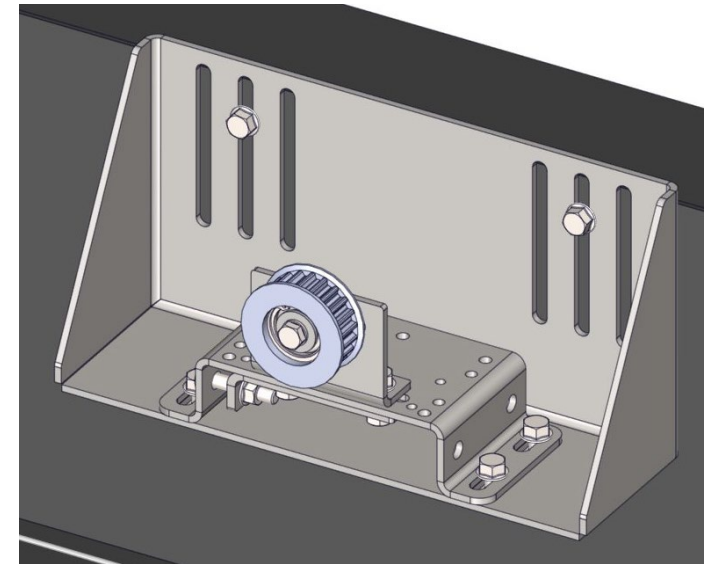
Pos.	Number	Description EN	Menge
410	01.20.60003	bag counter roller	1
210	01.20.60013	TSG bracket for counter roller	1
220	01.20.60060	TSG universal bracket, version "hat"	1
230	01.20.60110	clamping tab for clamping station, normal execution	1
310	01.36.00115	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	2
350	01.36.00169	lock washer DIN127 vz - M8	1
340	01.36.00450	wing repair washer DIN522 vz - 8,4x20x1,25	1
330	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	4
320	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2



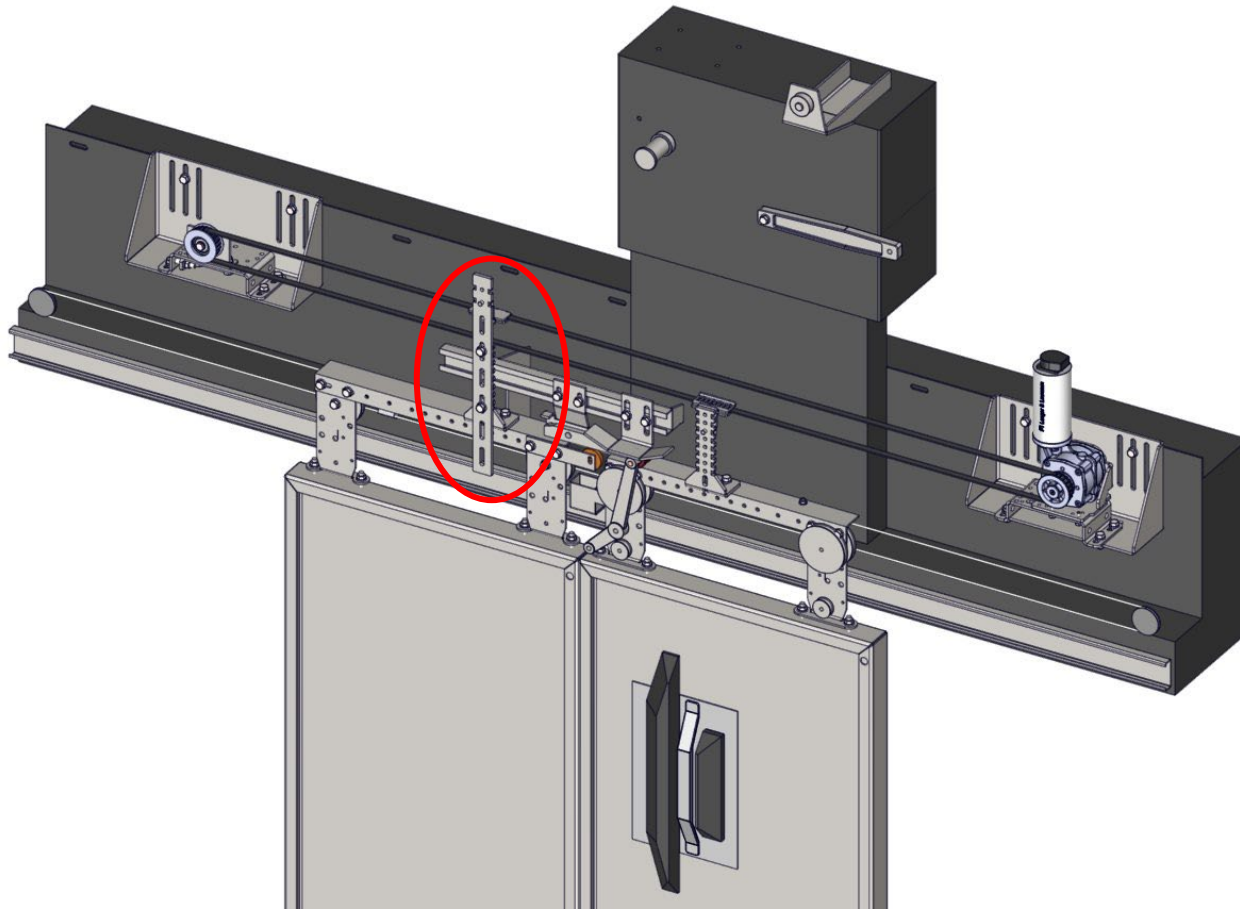
Pos.	Number	Description EN	Menge
210	01.20.60690	bracket for Thyssen HD Harmonic Drive	1
320	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	4
310	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4

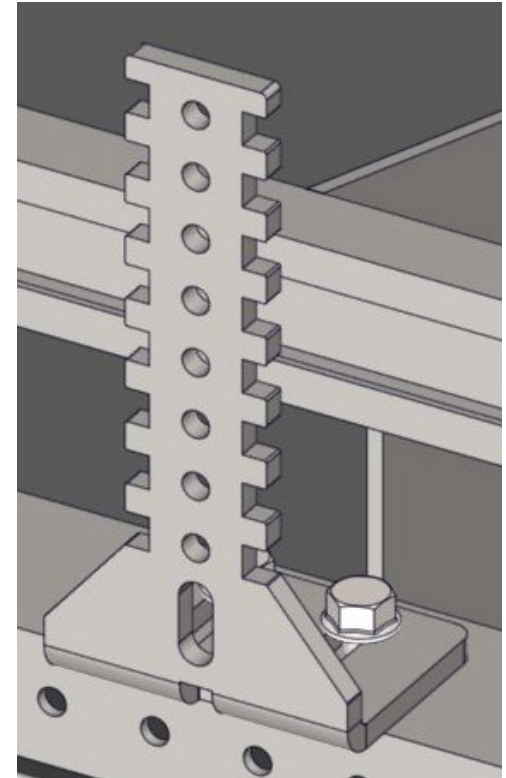
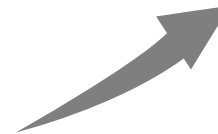
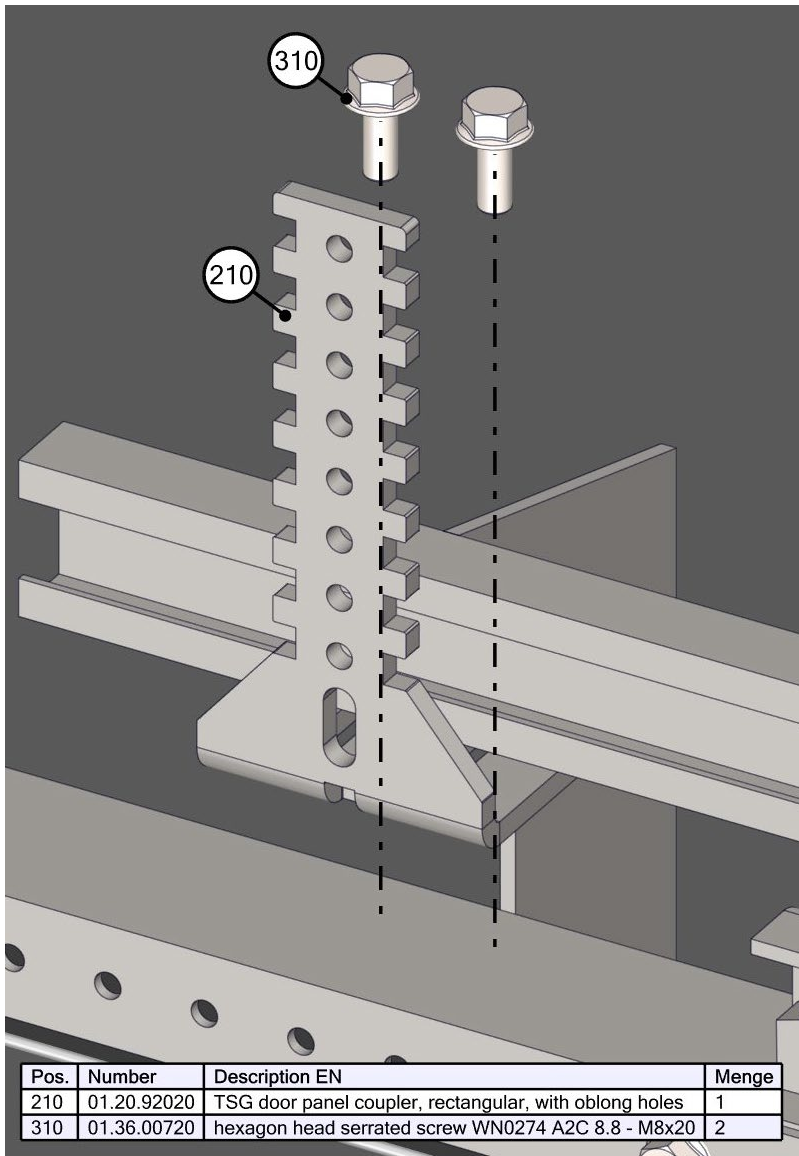


Pos.	Number	Description EN	Menge
320	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	2
310	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2

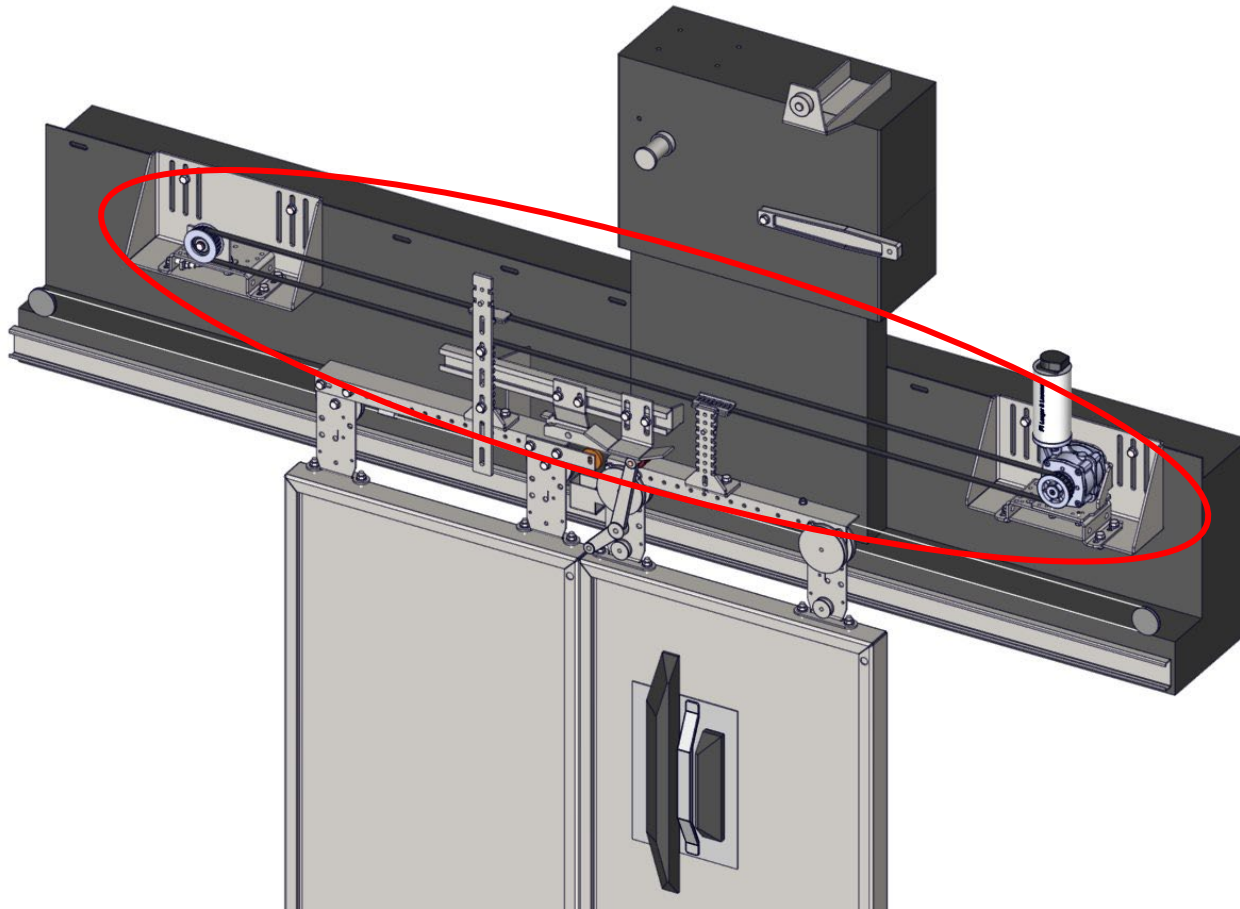


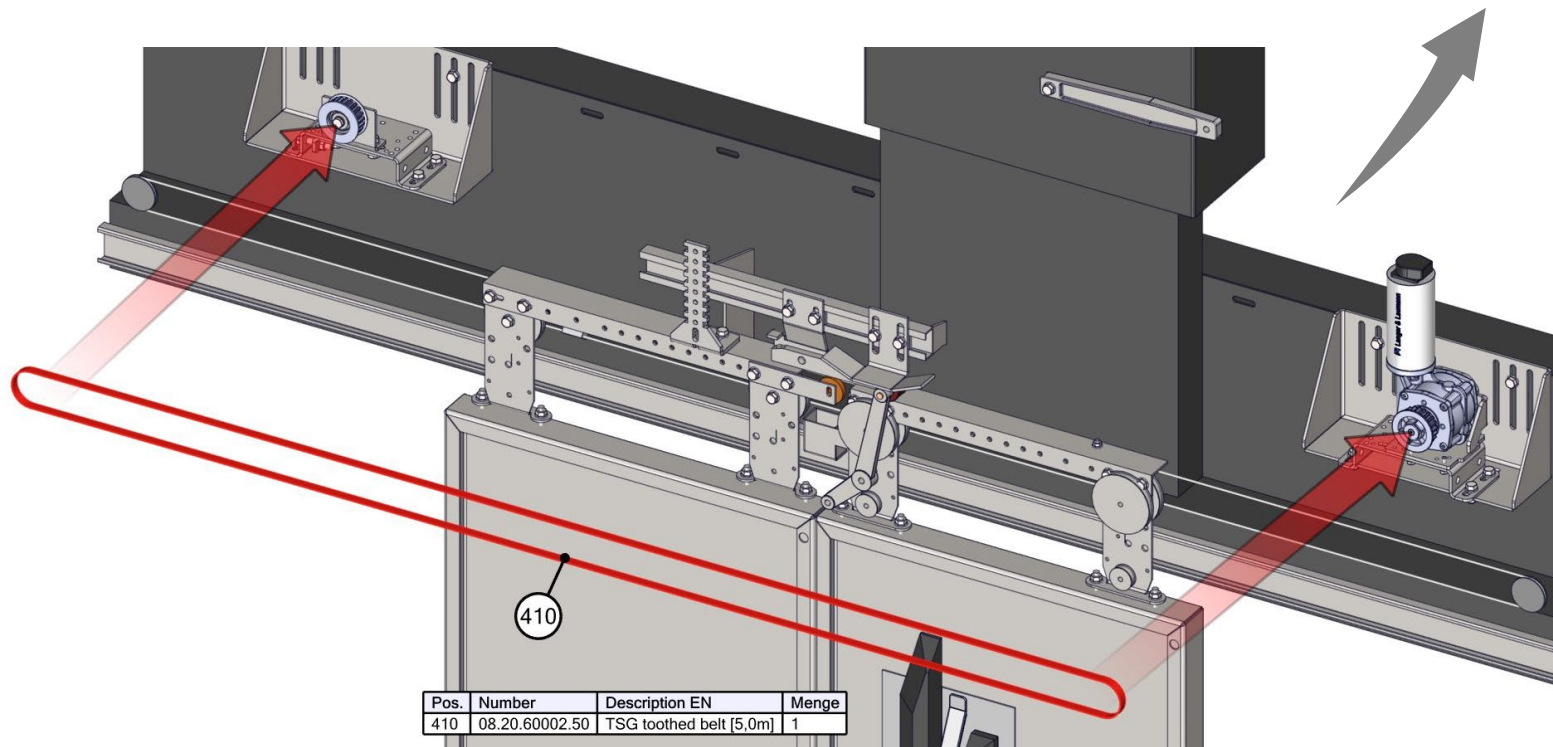
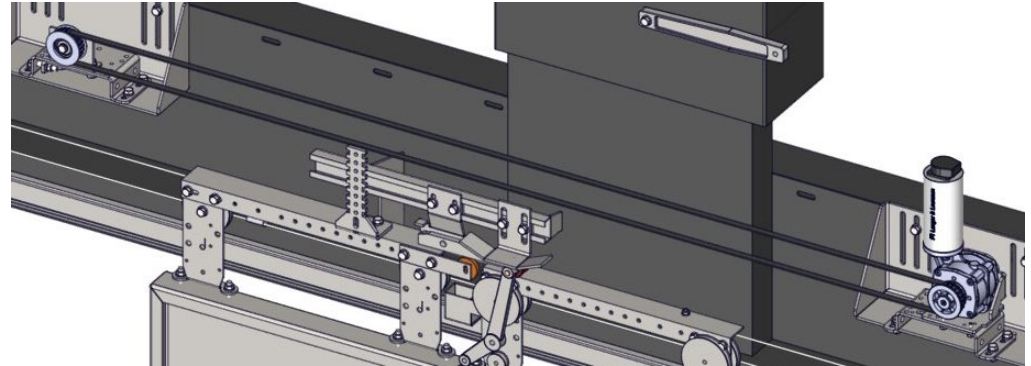
assembly of the door panel coupler

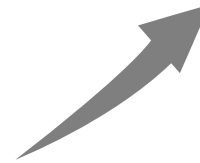
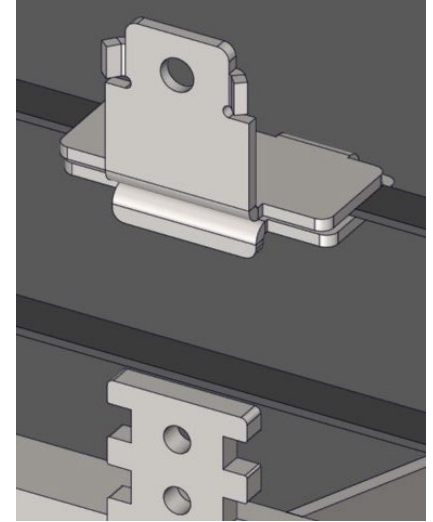
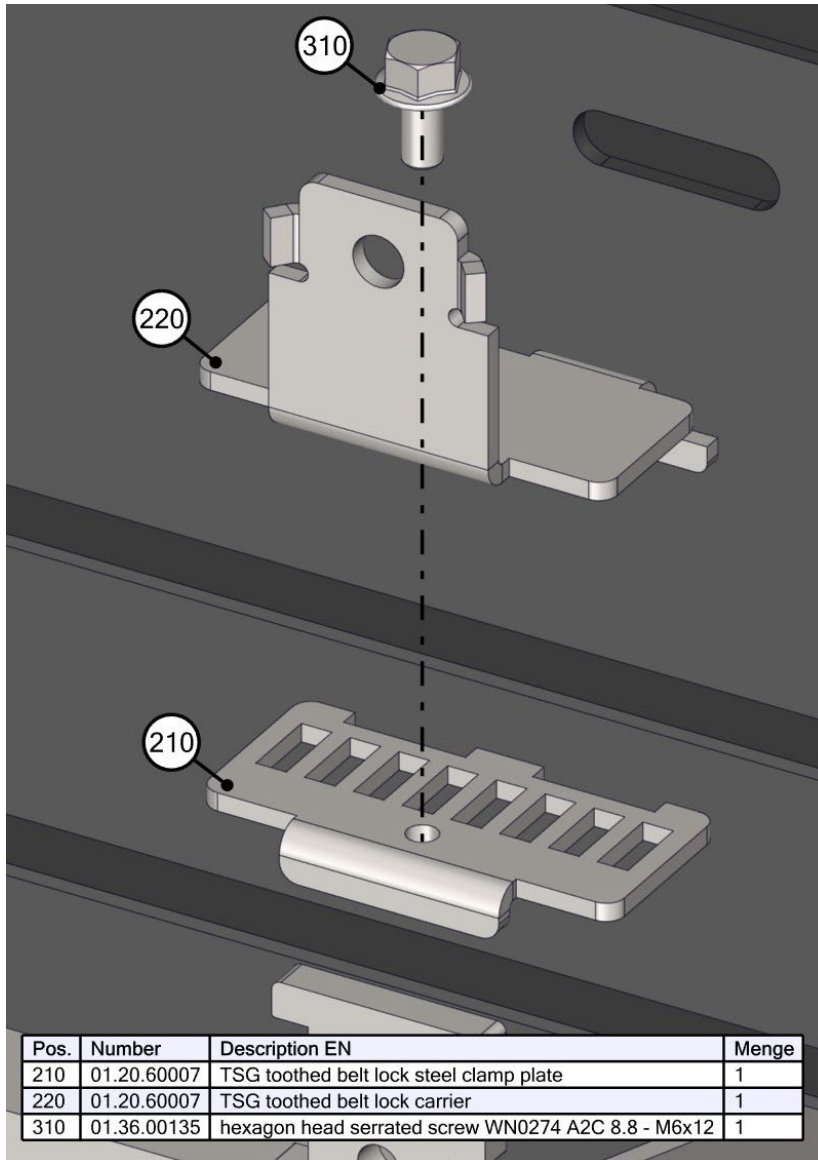




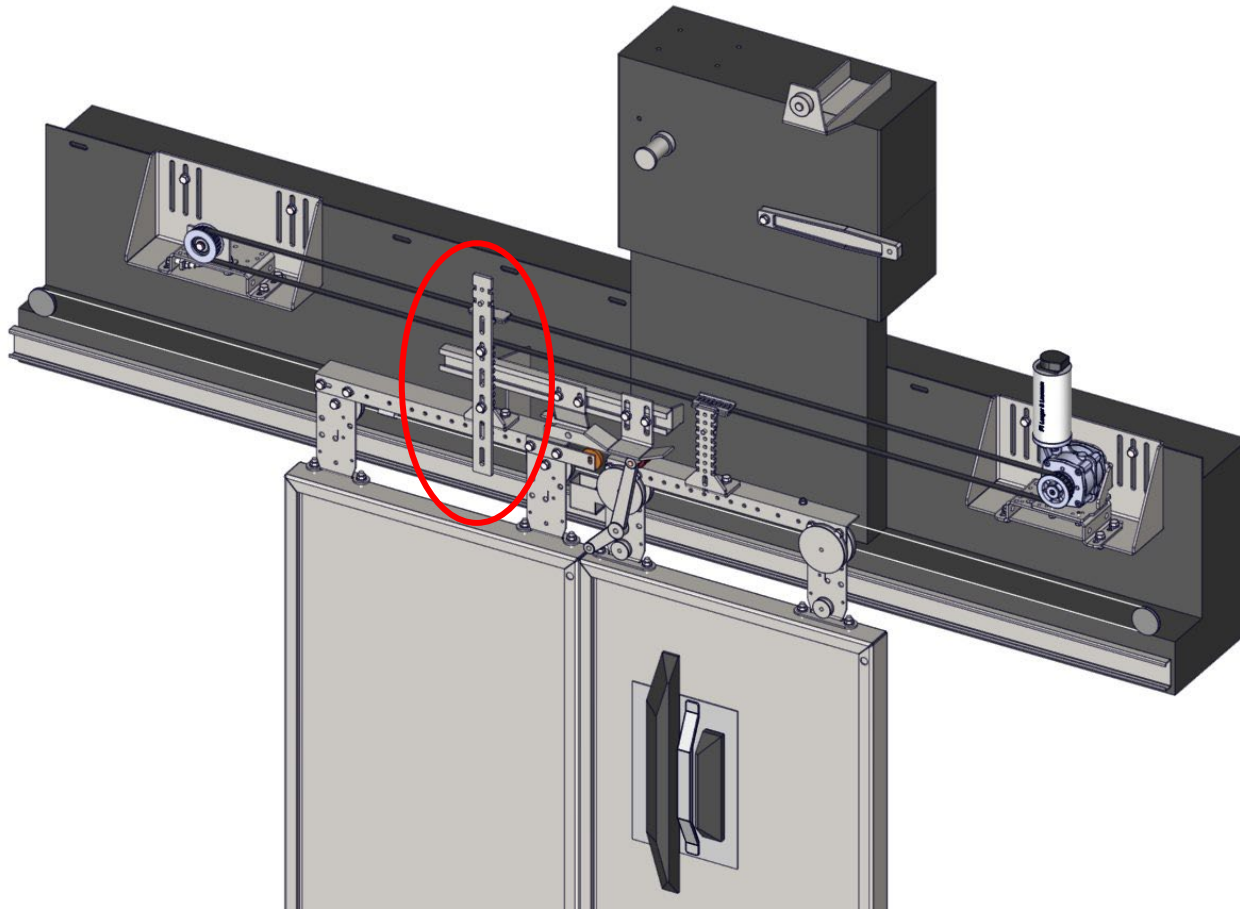
assembly of the toothed belt and toothed belt lock

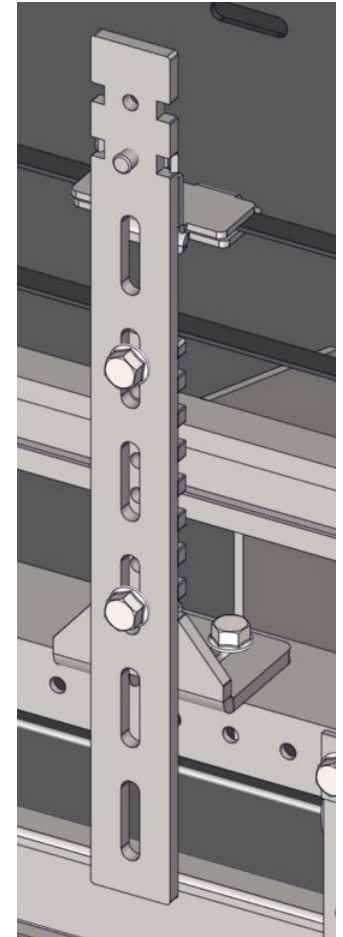
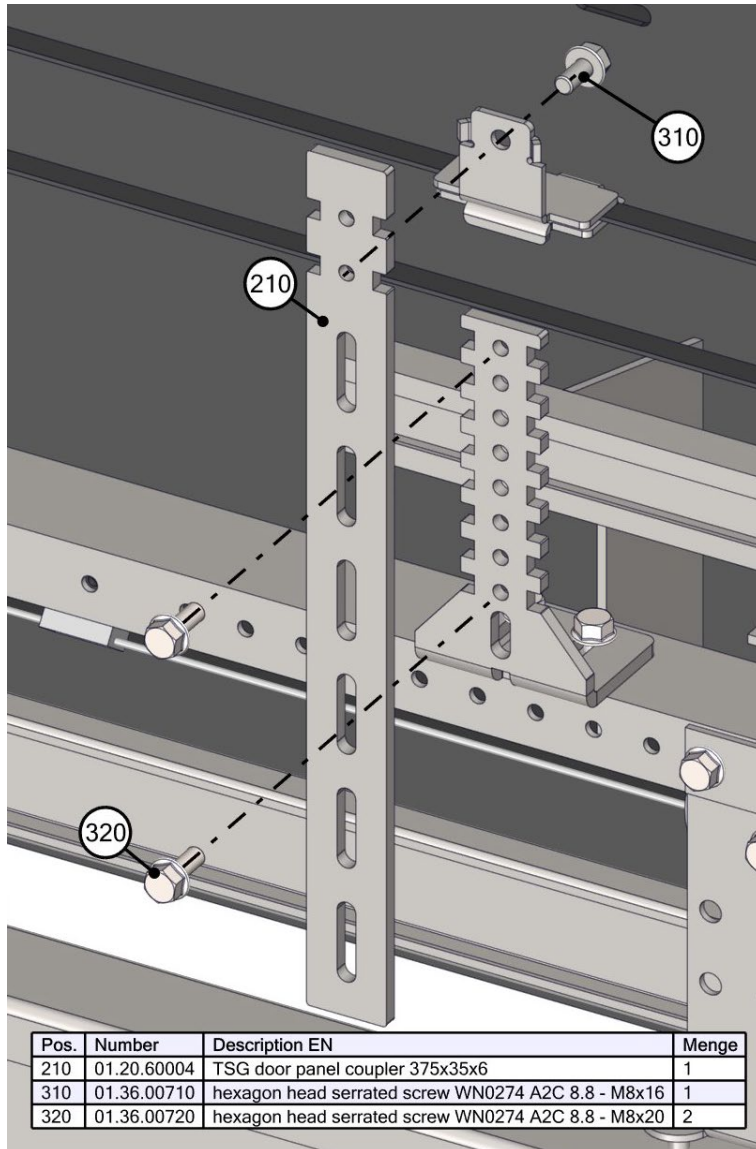




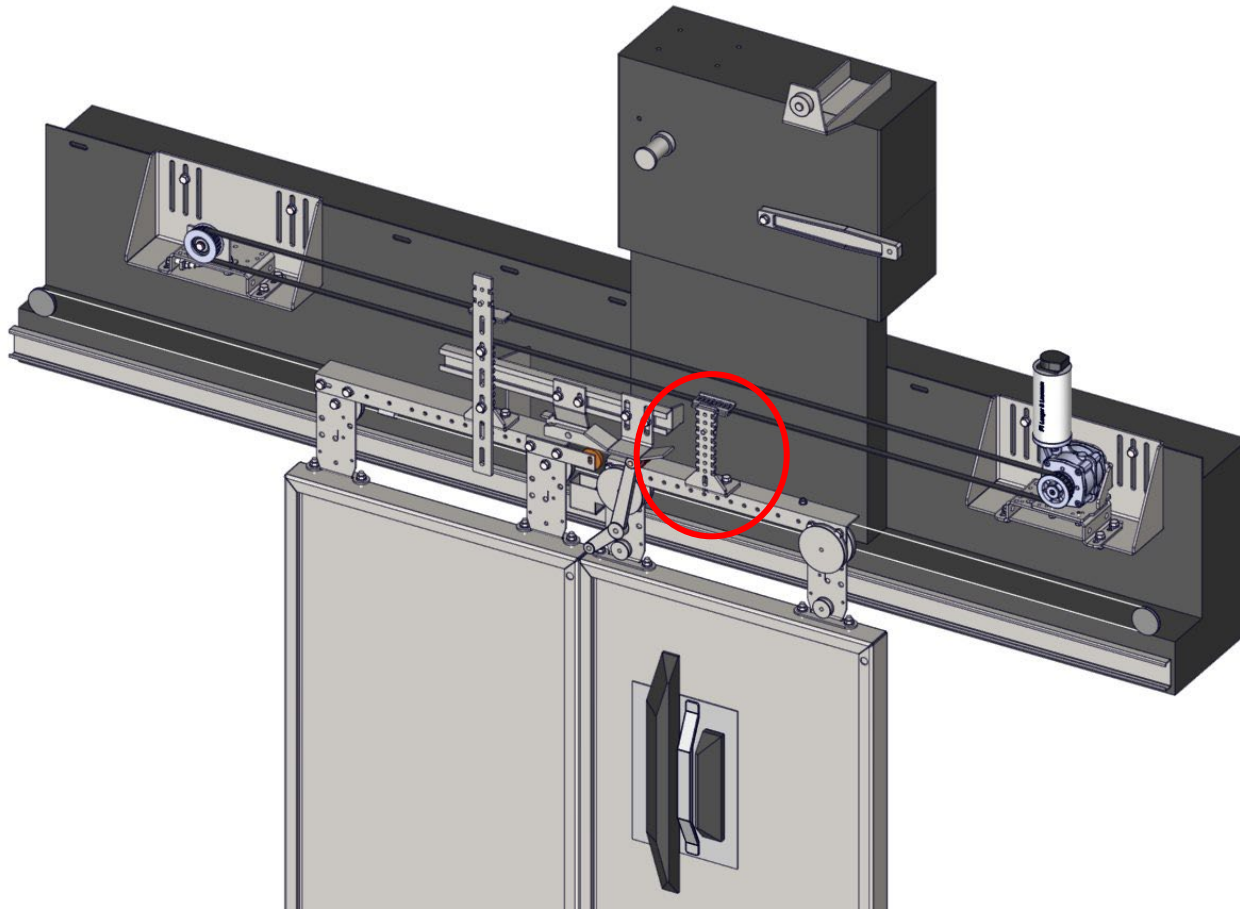


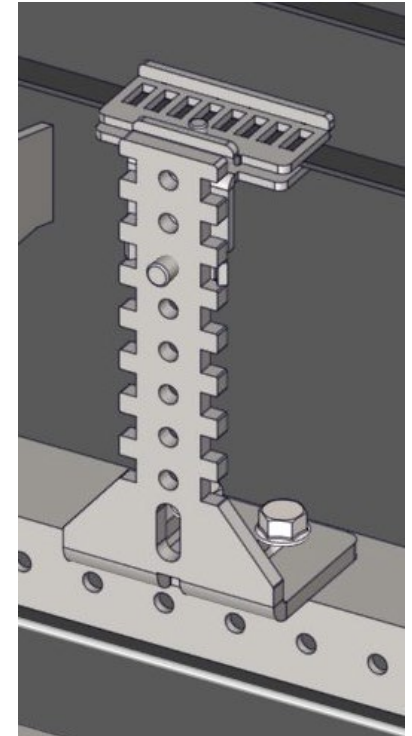
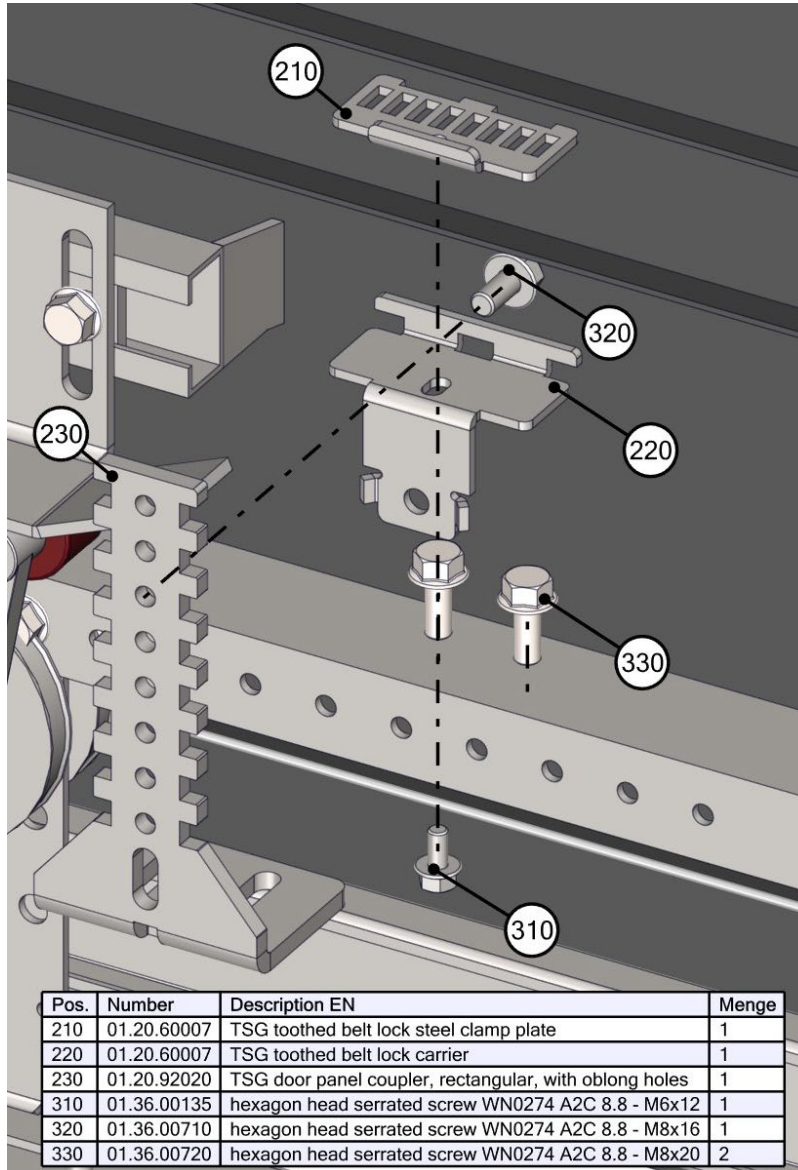
assembly of the left door panel coupler



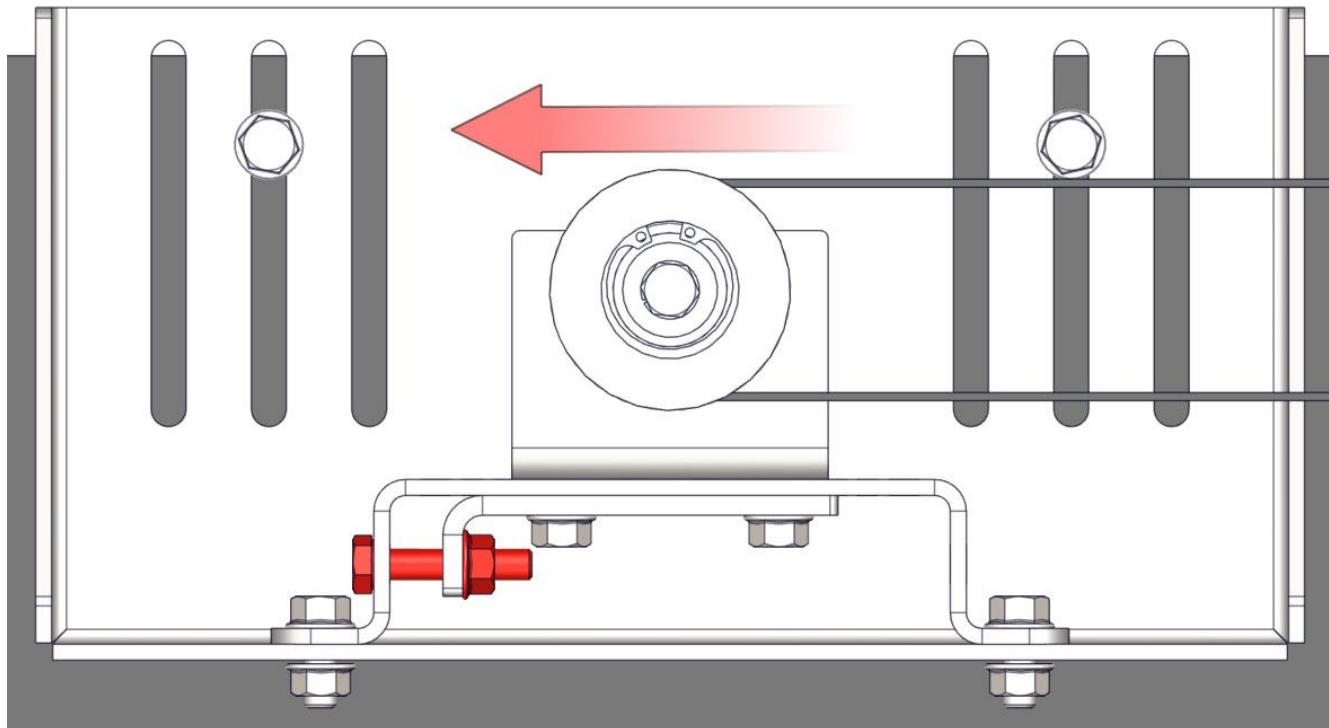


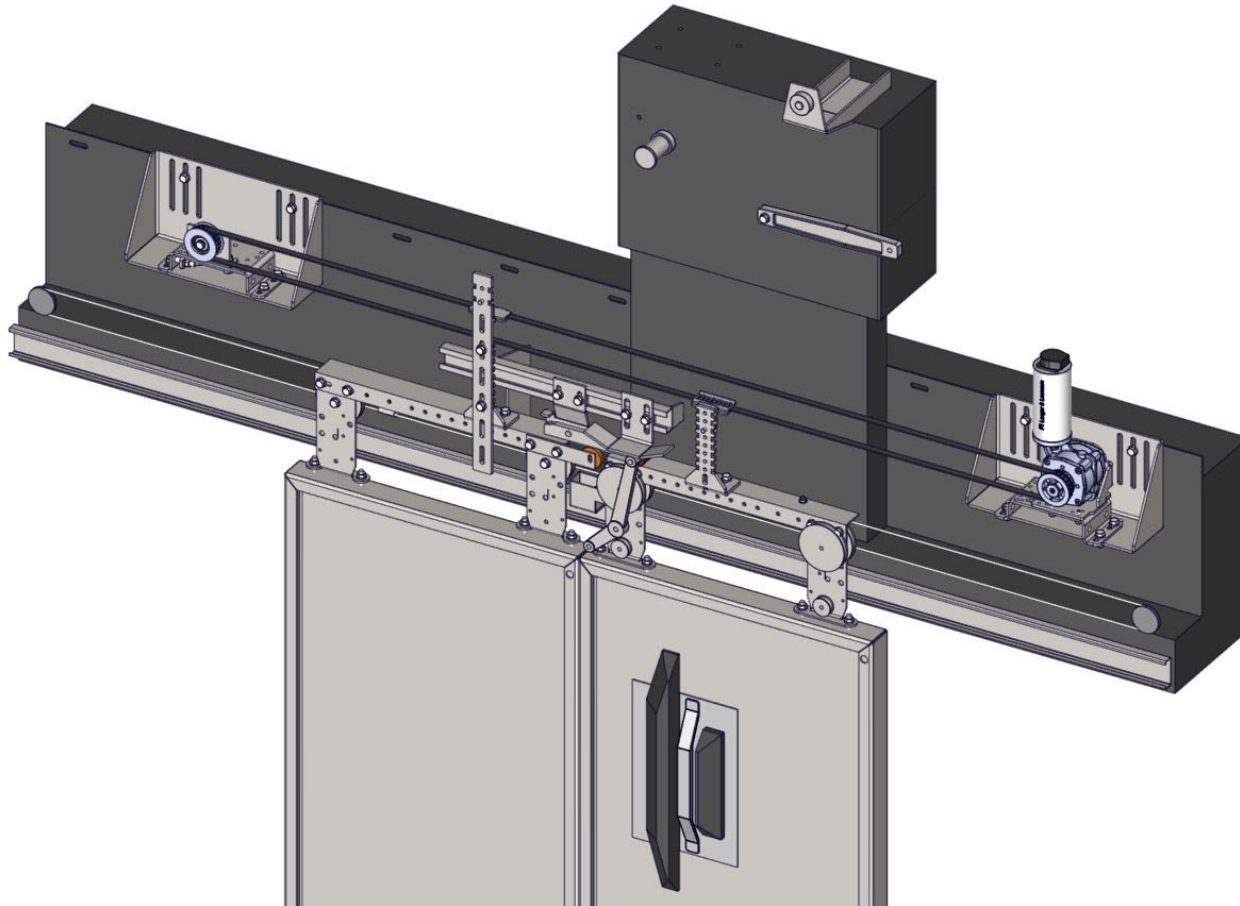
assembly of the right door panel coupler



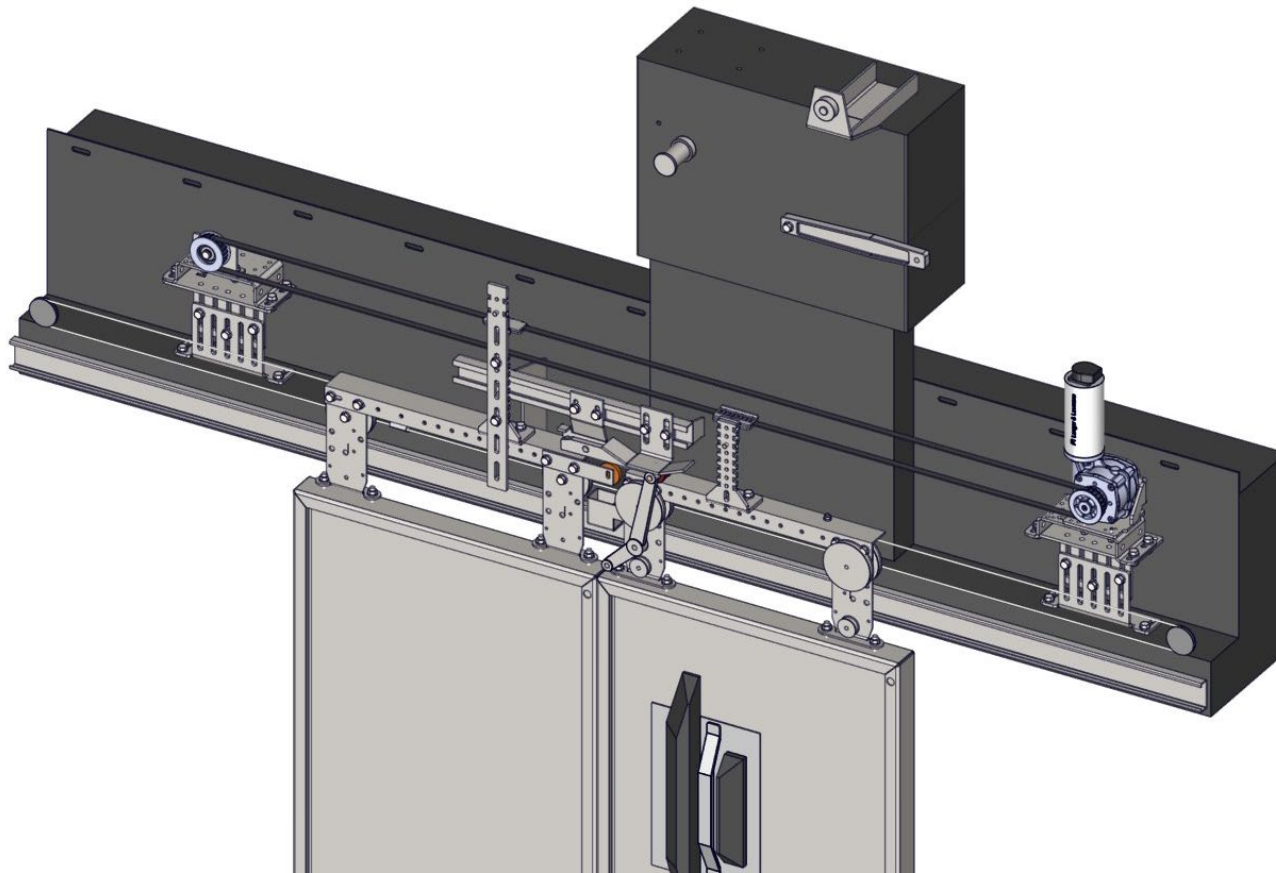


tensioning the tooth belt

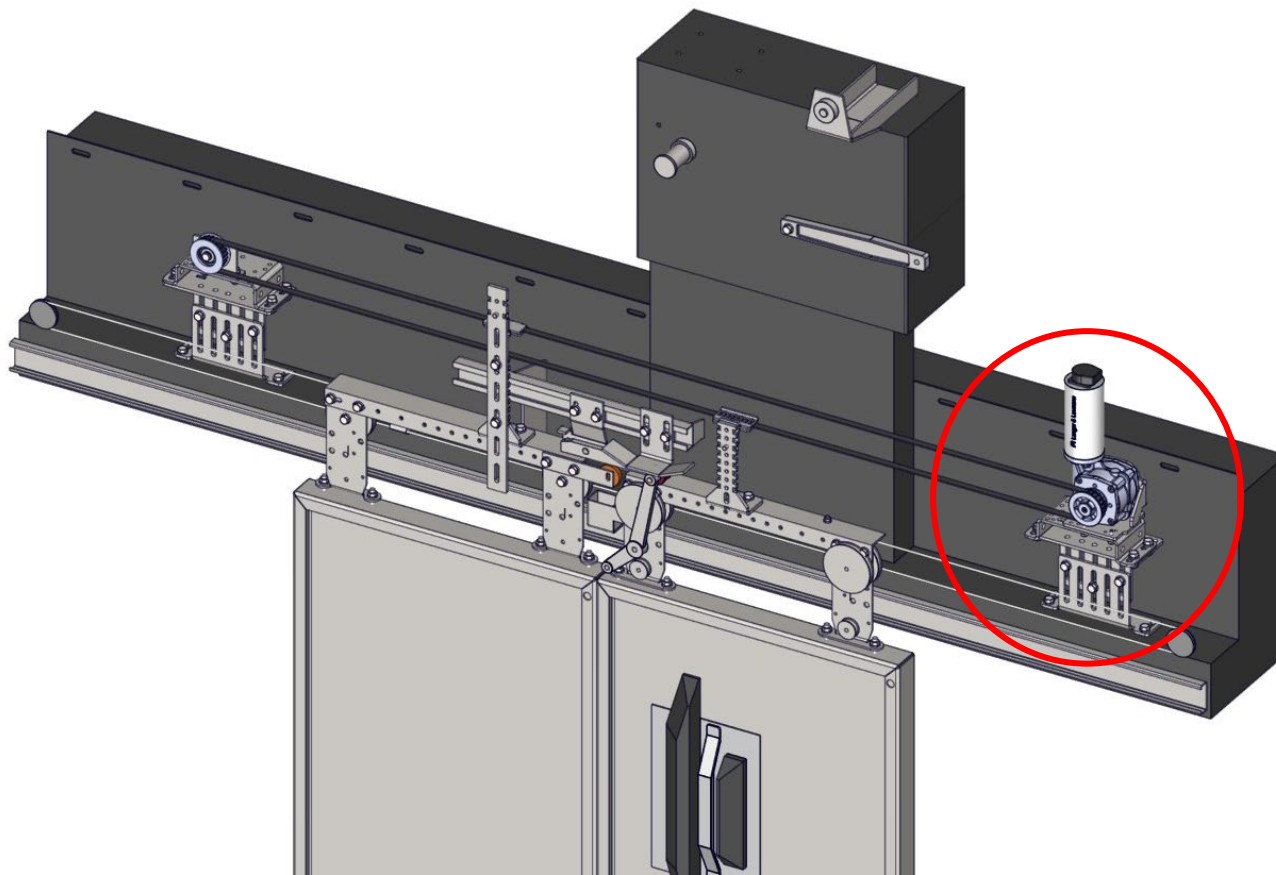


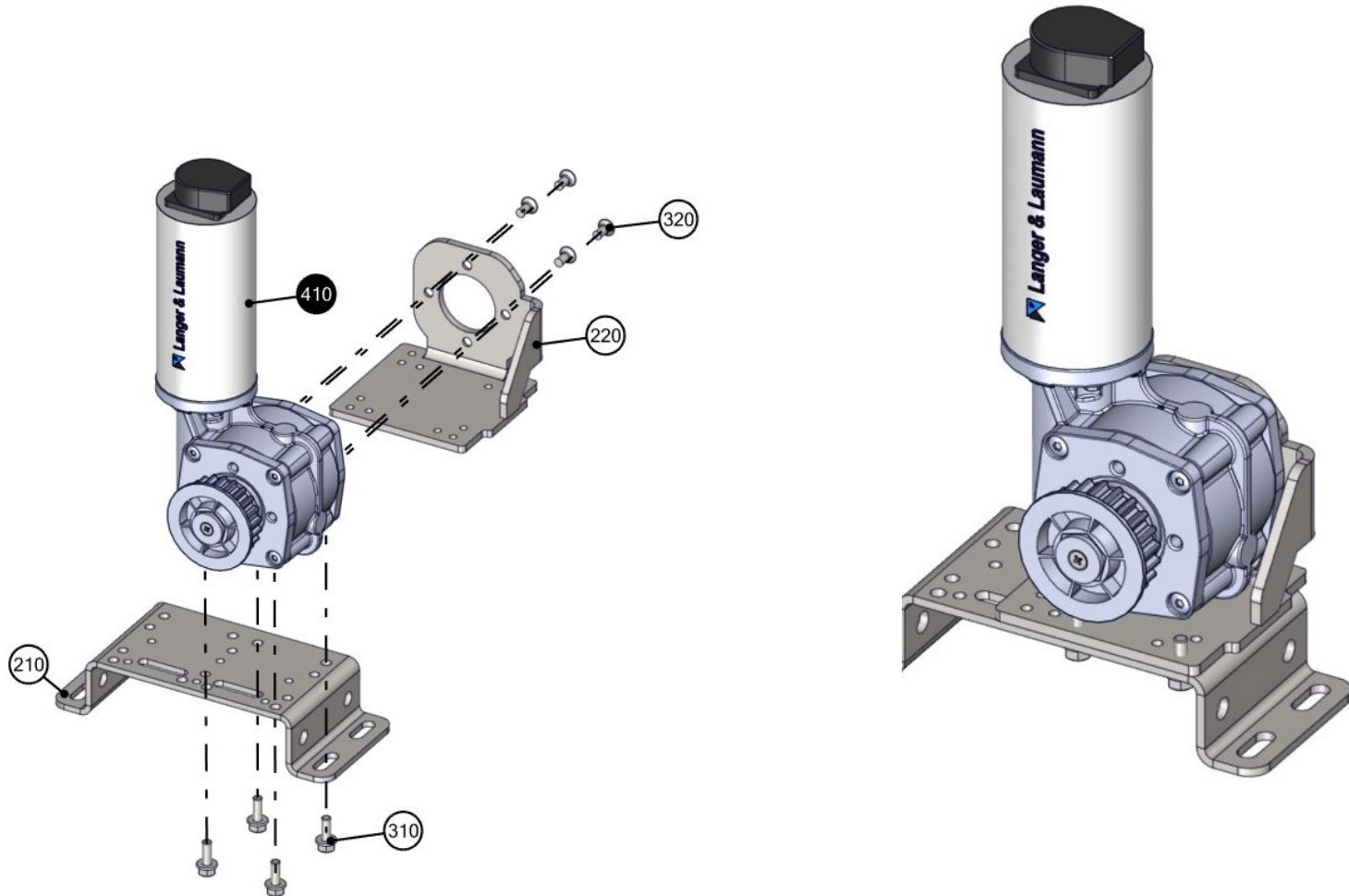


TSG in Thyssen HD assembly on the lift cabin roof

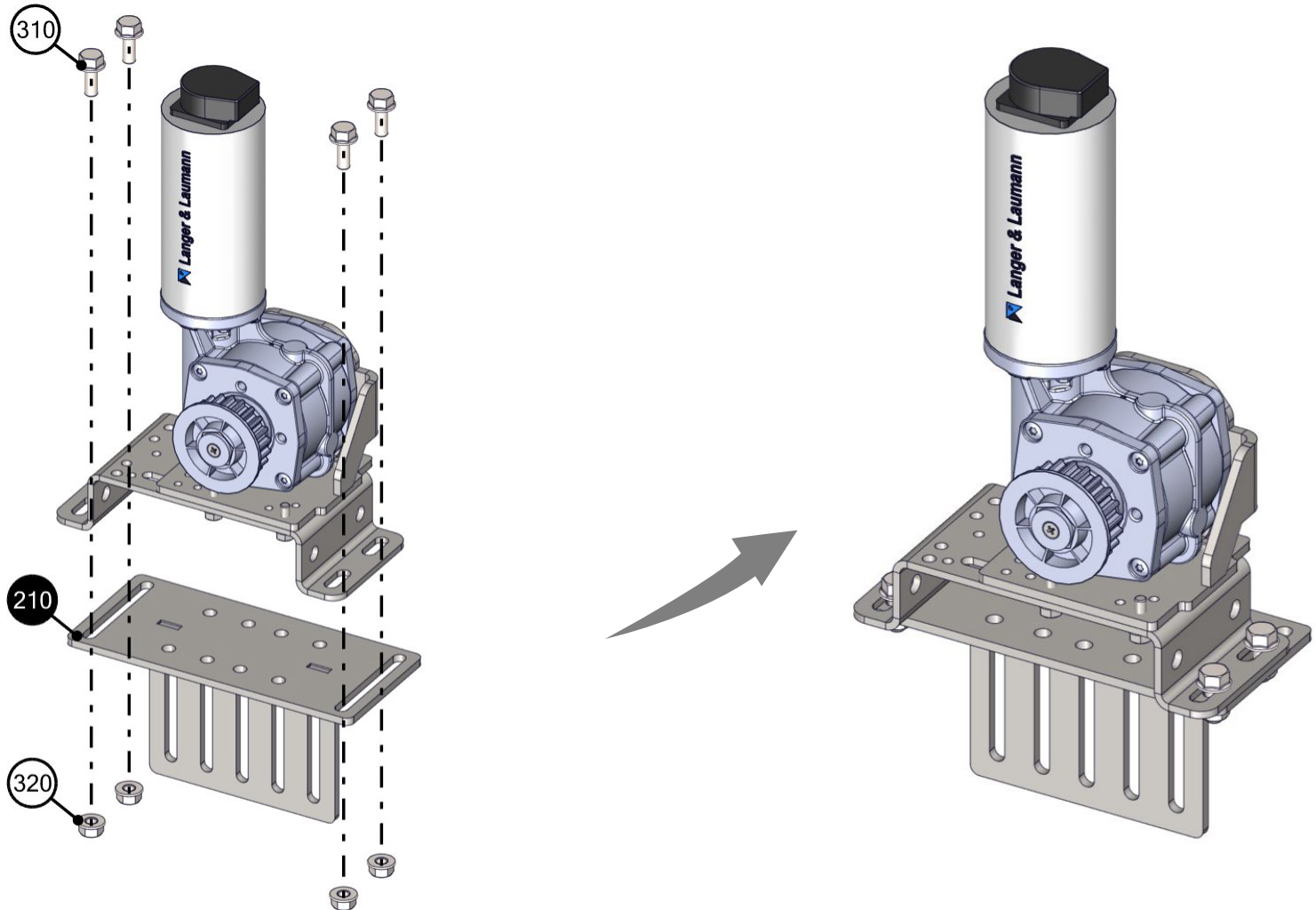


assembly of the motor

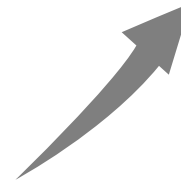
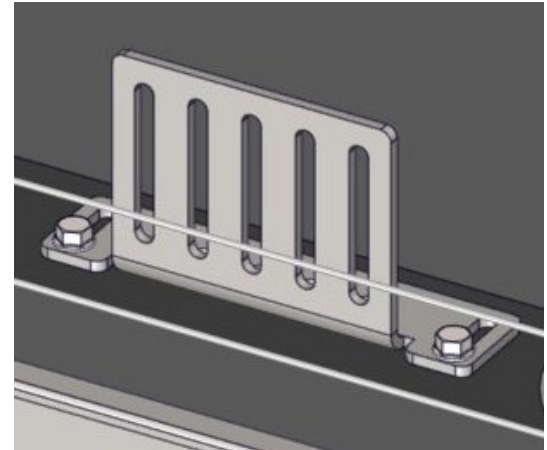
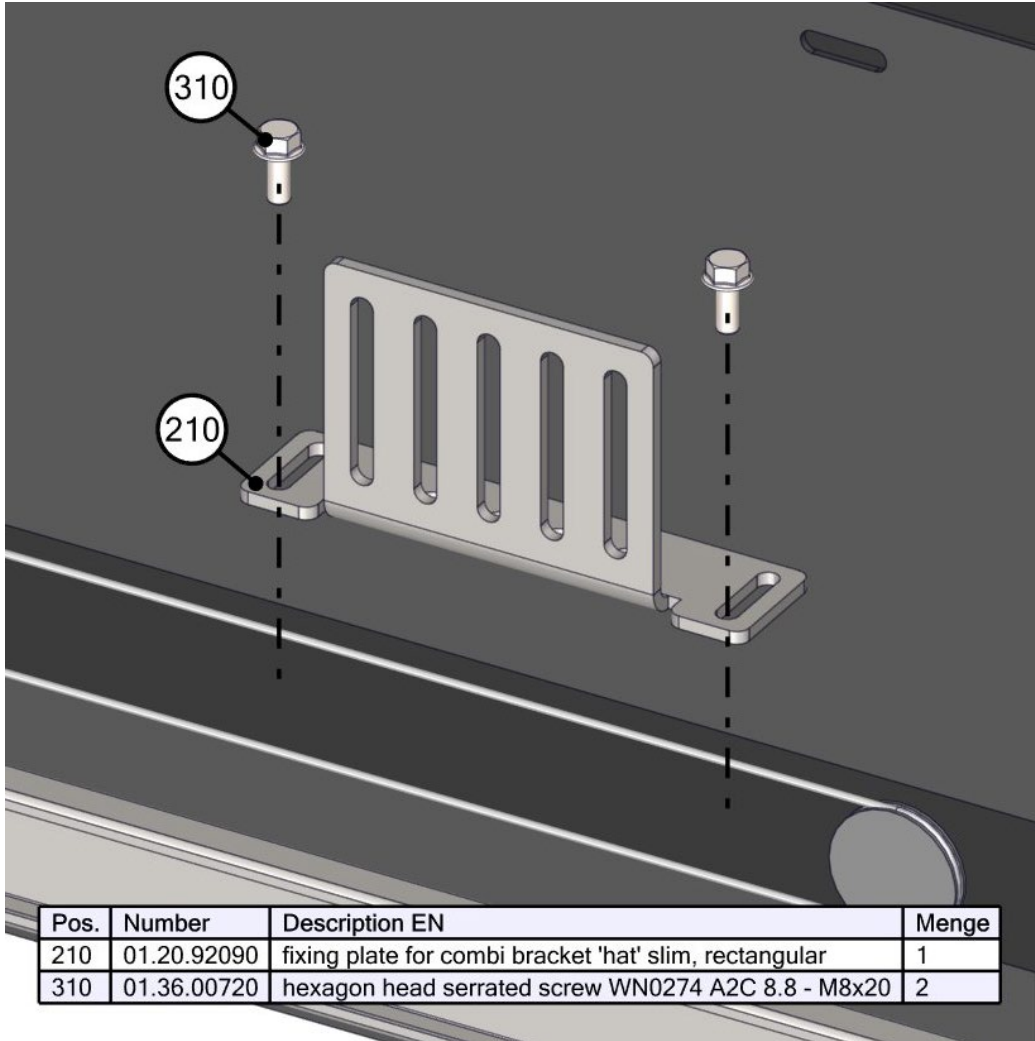




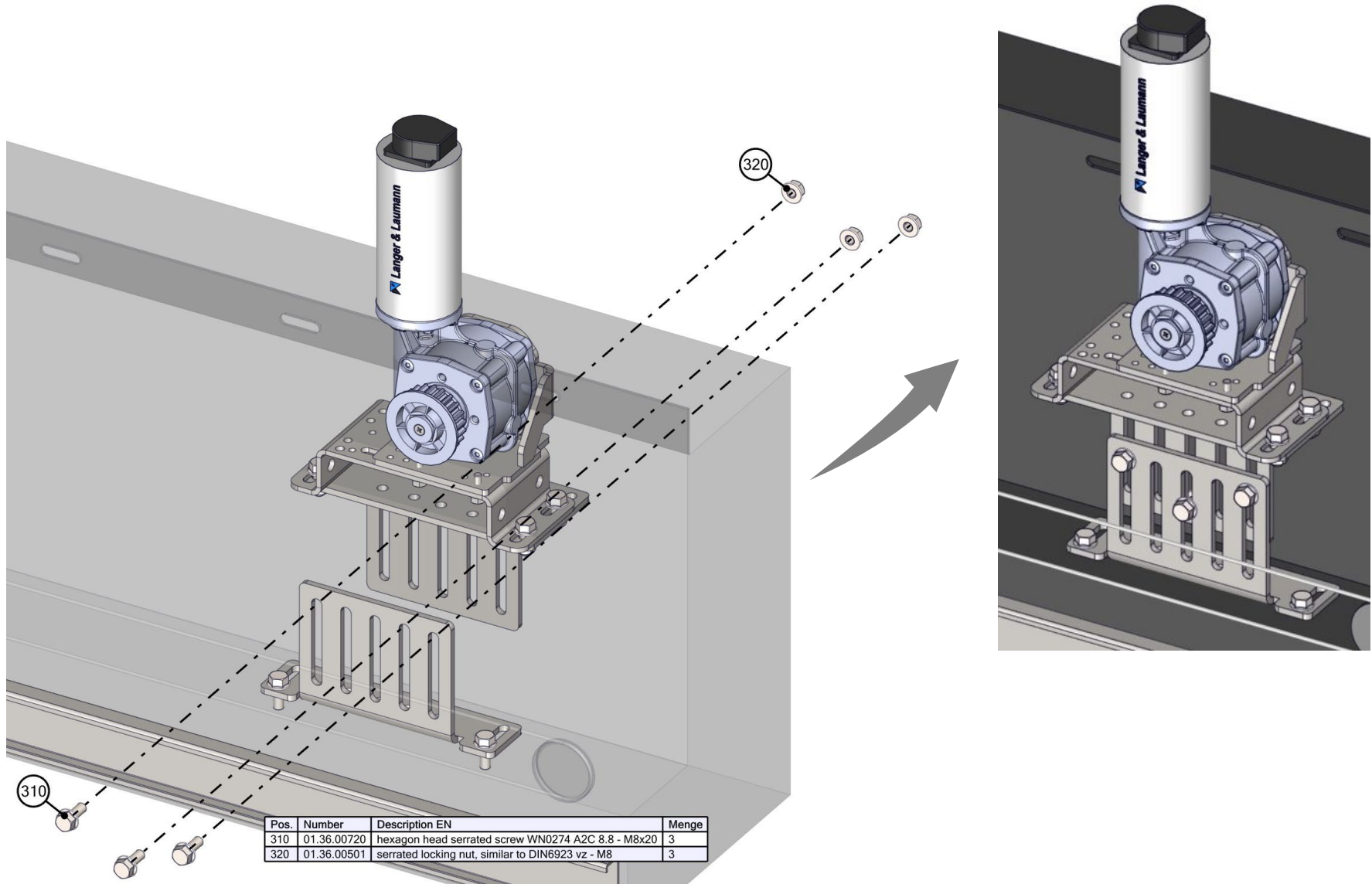
Pos.	Number	Description EN	Menge
210	01.20.60060	TSG universal bracket, version "hat"	1
220	01.20.60680	motor bracket USA adapter for motor big	1
310	01.36.00138	hexagon head serrated screw WN0274 A2C 8.8 - M6x16	4
320	01.36.00358	countersunk head screw w.recessed head DIN7991 vz8.8 - M6x12	4
410	08.20.40001.D2	motor large right & gearbox, 24V/4,9A/1:15	1



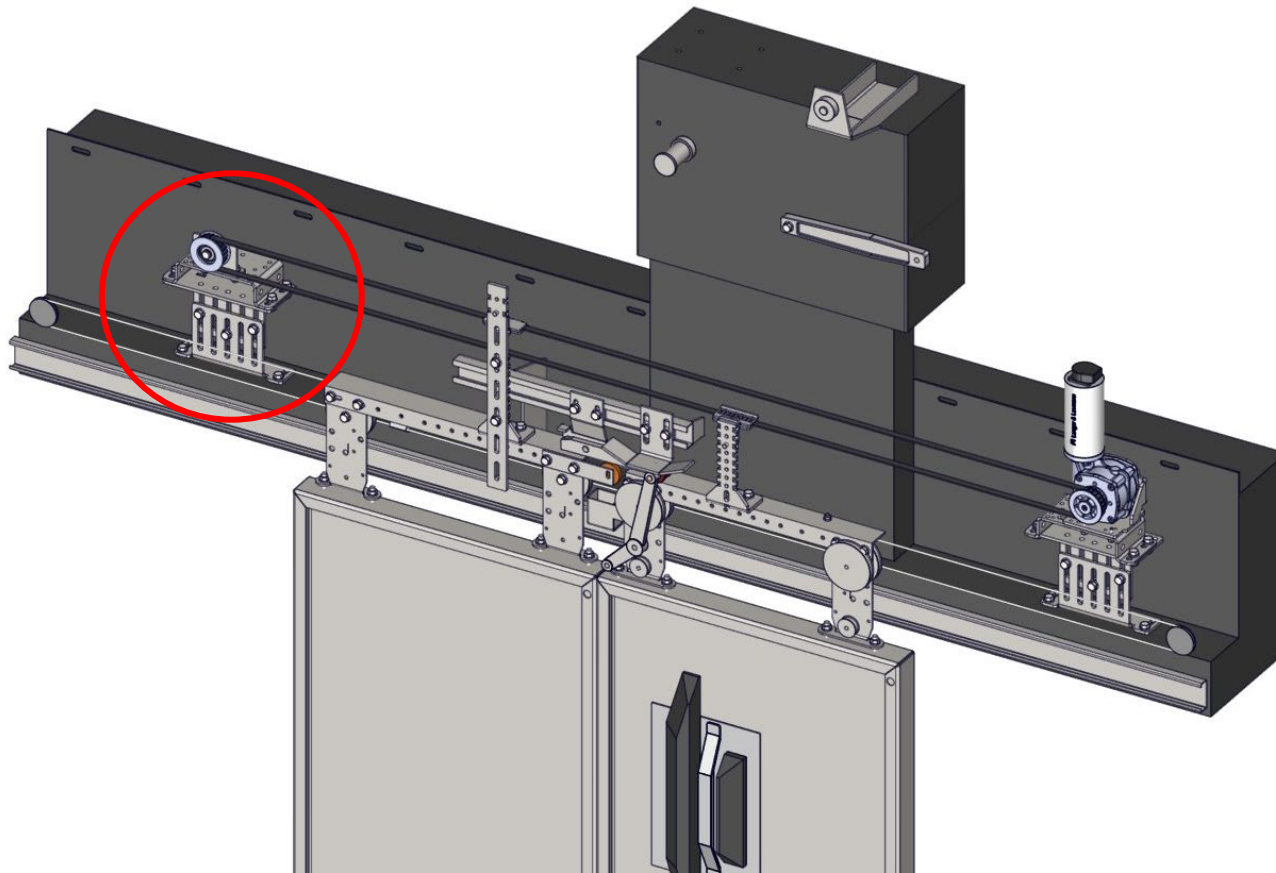
Pos.	Number	Description EN	Menge
210	01.20.92010	fixing plate for combi bracket 'hat', rectangular	1
310	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4
320	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	4

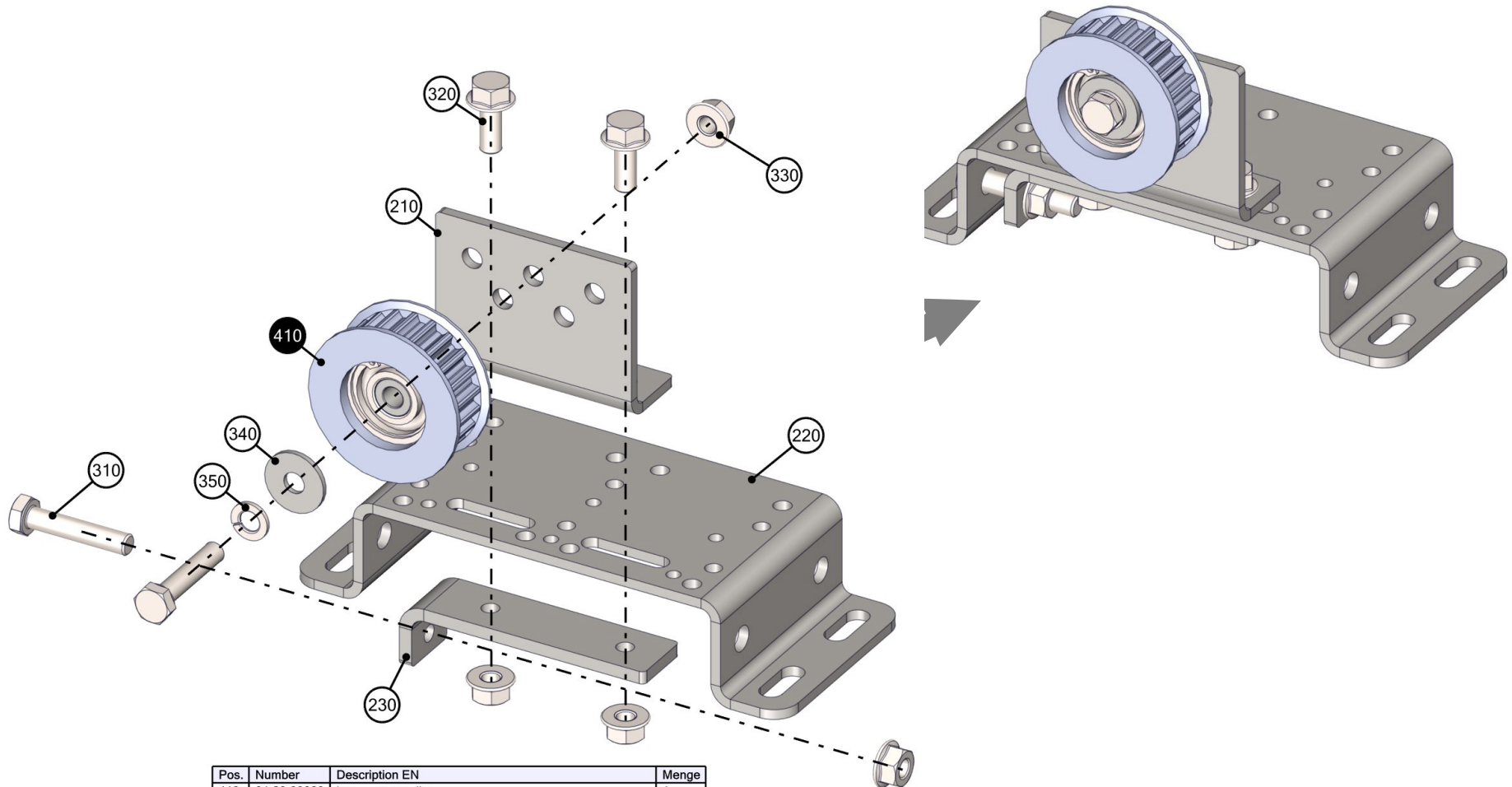


Pos.	Number	Description EN	Menge
210	01.20.92090	fixing plate for combi bracket 'hat' slim, rectangular	1
310	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2

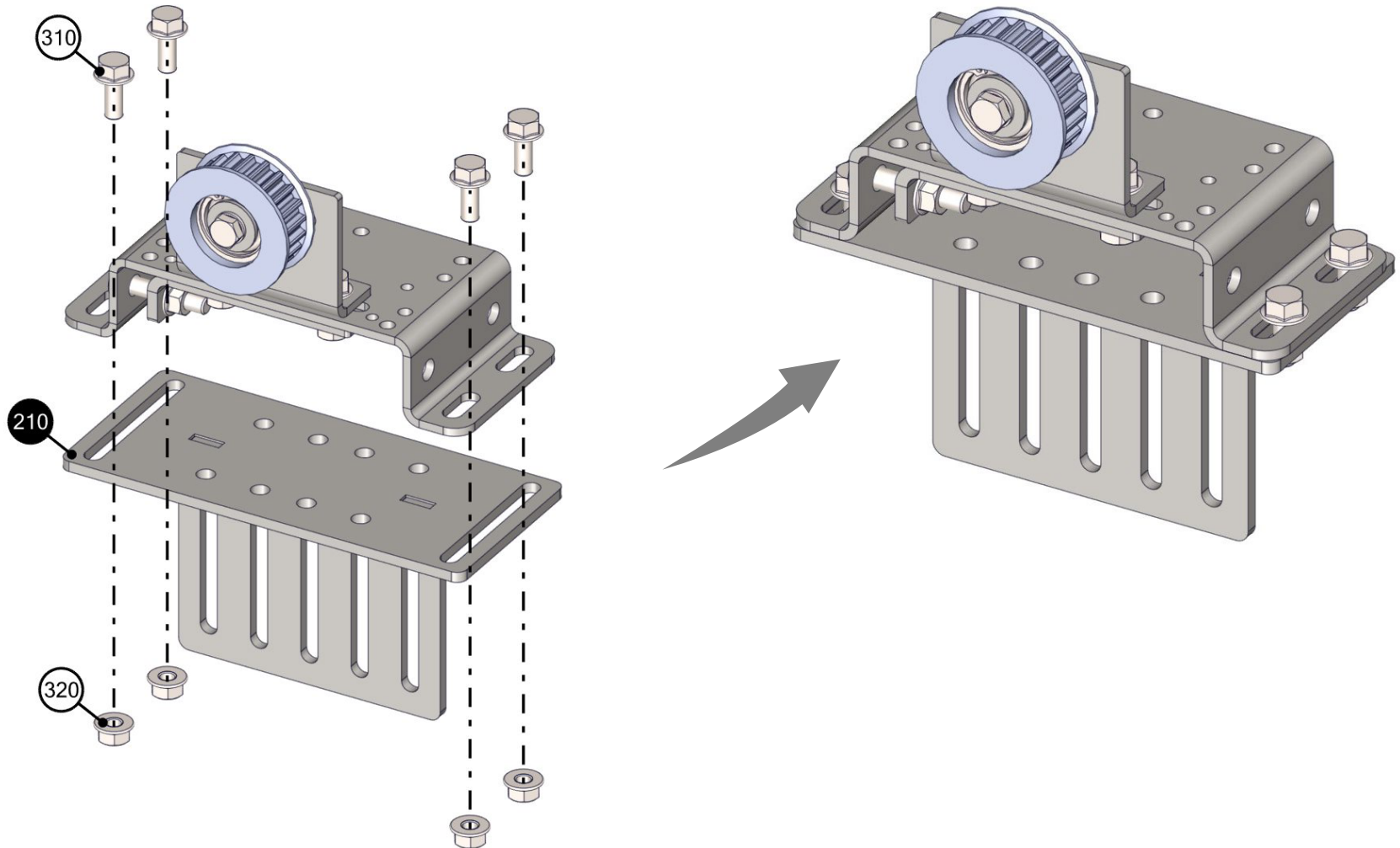


assembly of the counter roller

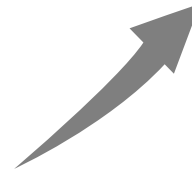
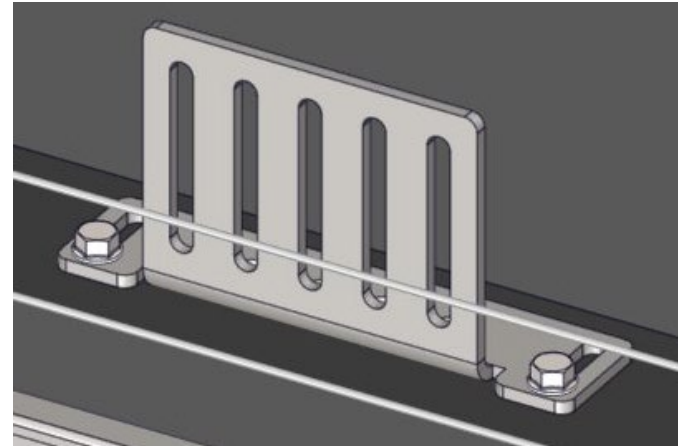
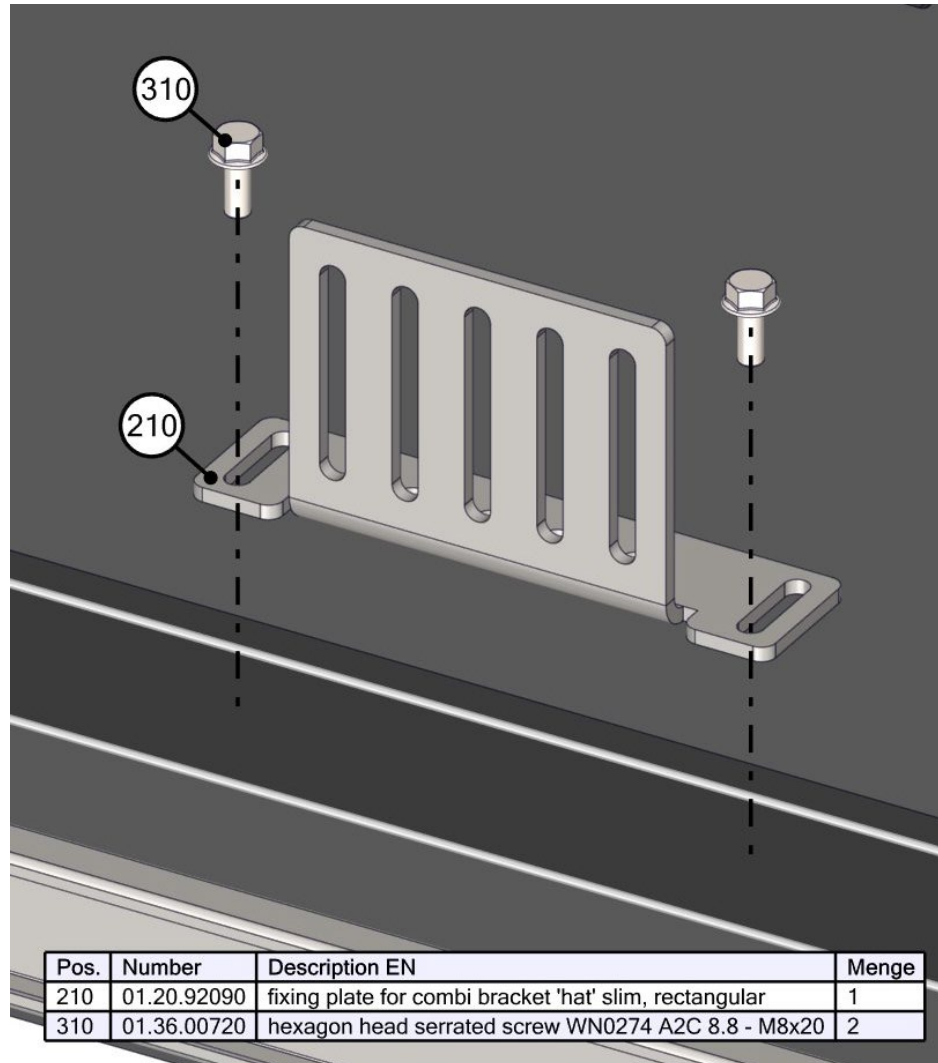


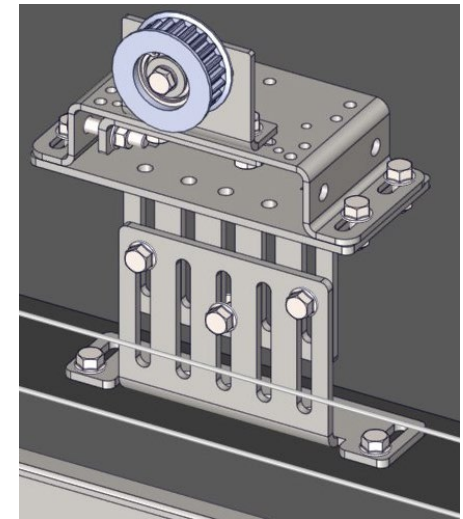
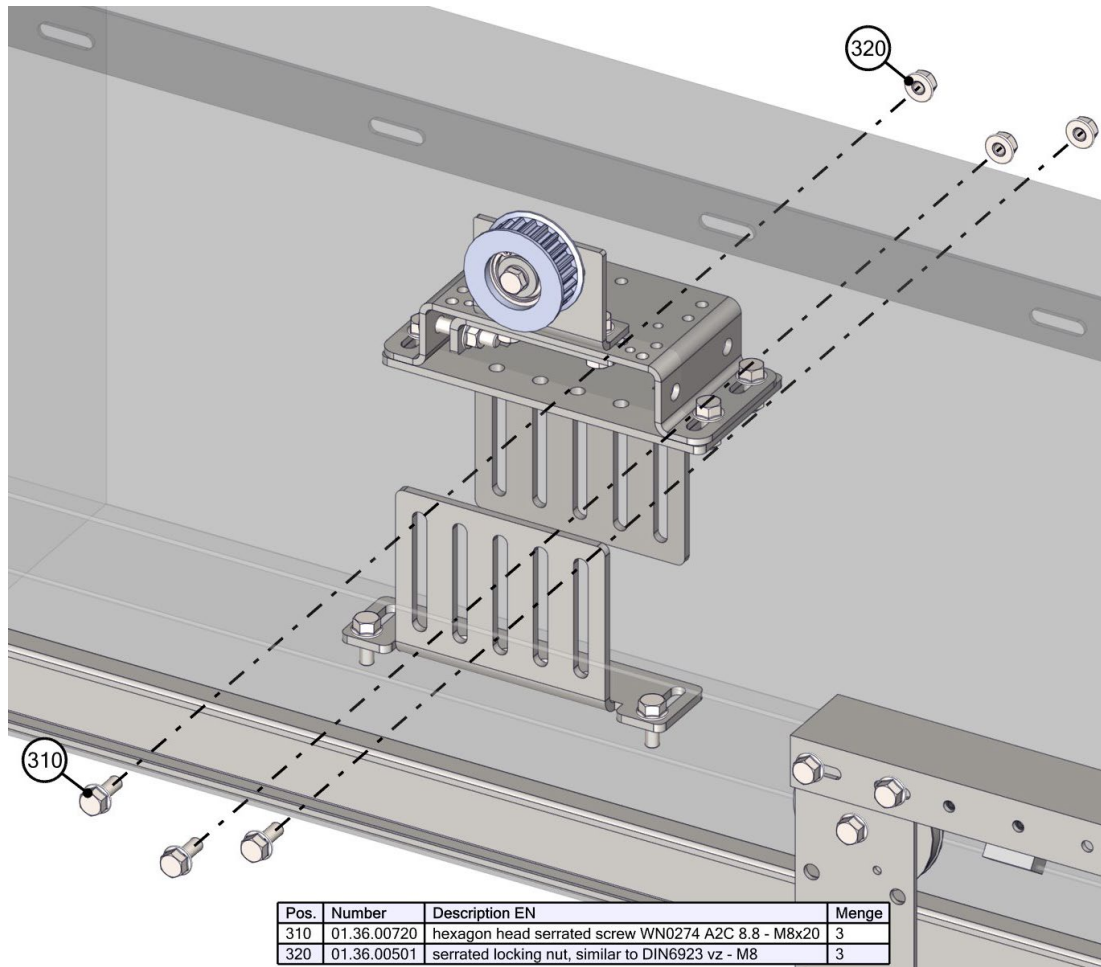


Pos.	Number	Description EN	Menge
410	01.20.60003	bag counter roller	1
210	01.20.60013	TSG bracket for counter roller	1
220	01.20.60060	TSG universal bracket, version "hat"	1
230	01.20.60110	clamping tab for clamping station, normal execution	1
310	01.36.00115	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	2
350	01.36.00169	lock washer DIN127 vz - M8	1
340	01.36.00450	wing repair washer DIN522 vz - 8,4x20x1,25	1
330	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	4
320	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2

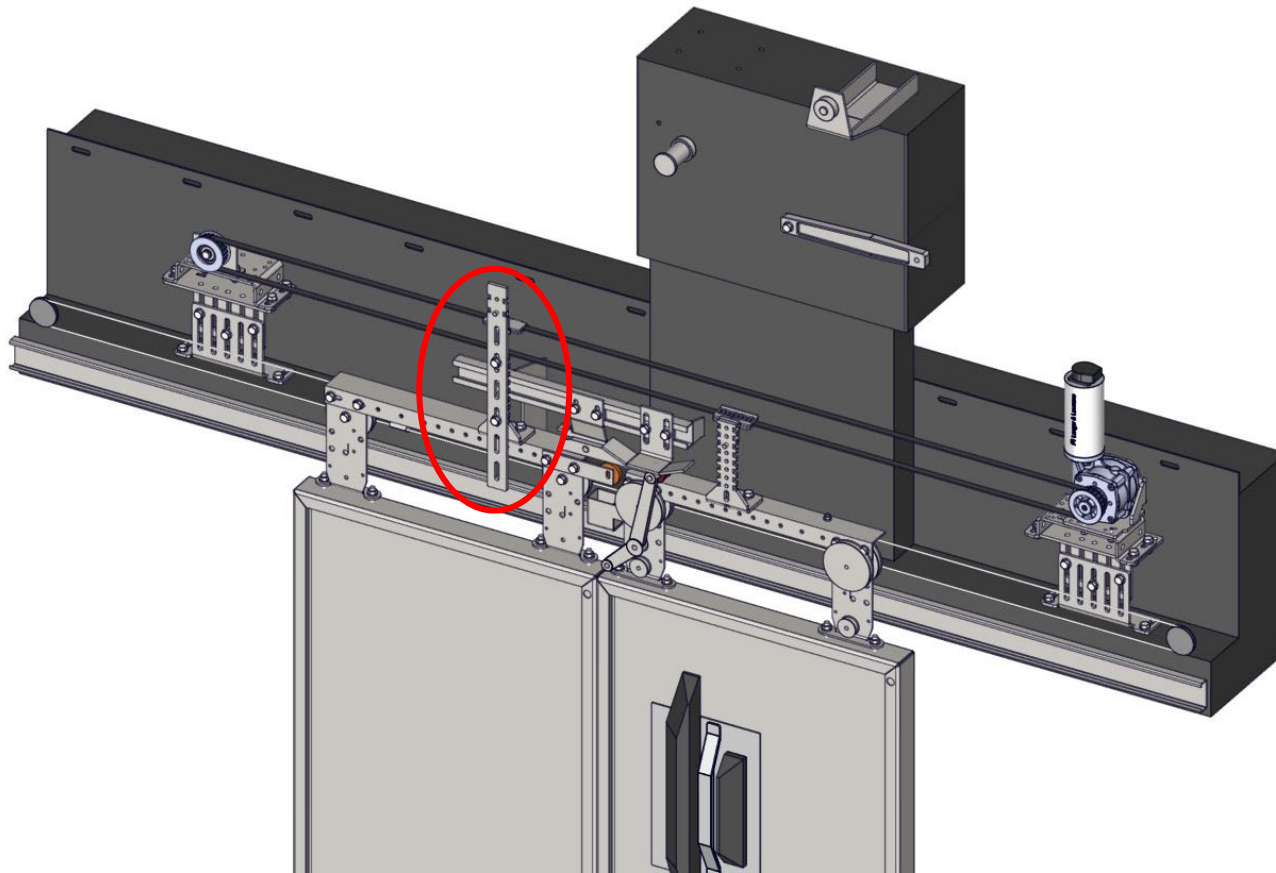


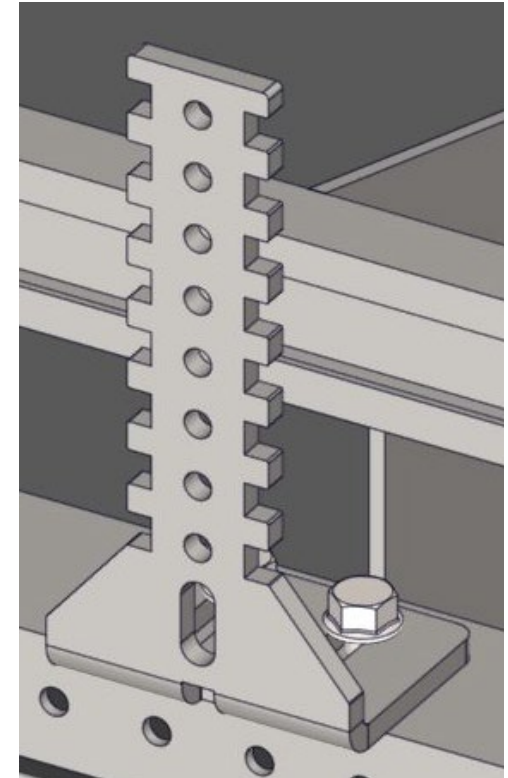
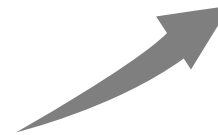
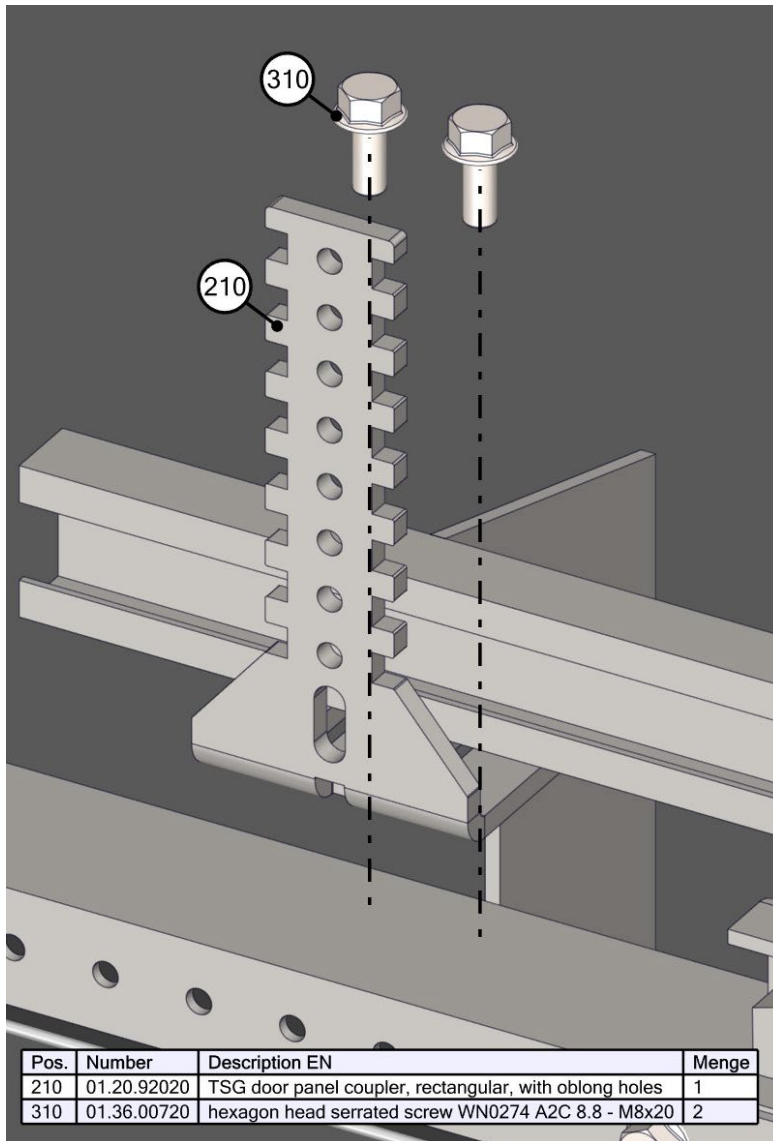
Pos.	Number	Description EN	Menge
210	01.20.92010	plate for combi bracket 'hat', rectangular	1
310	01.36.00720	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4
320	01.36.00501	serrated locking nut, similar to DIN6923 vz - M8	4



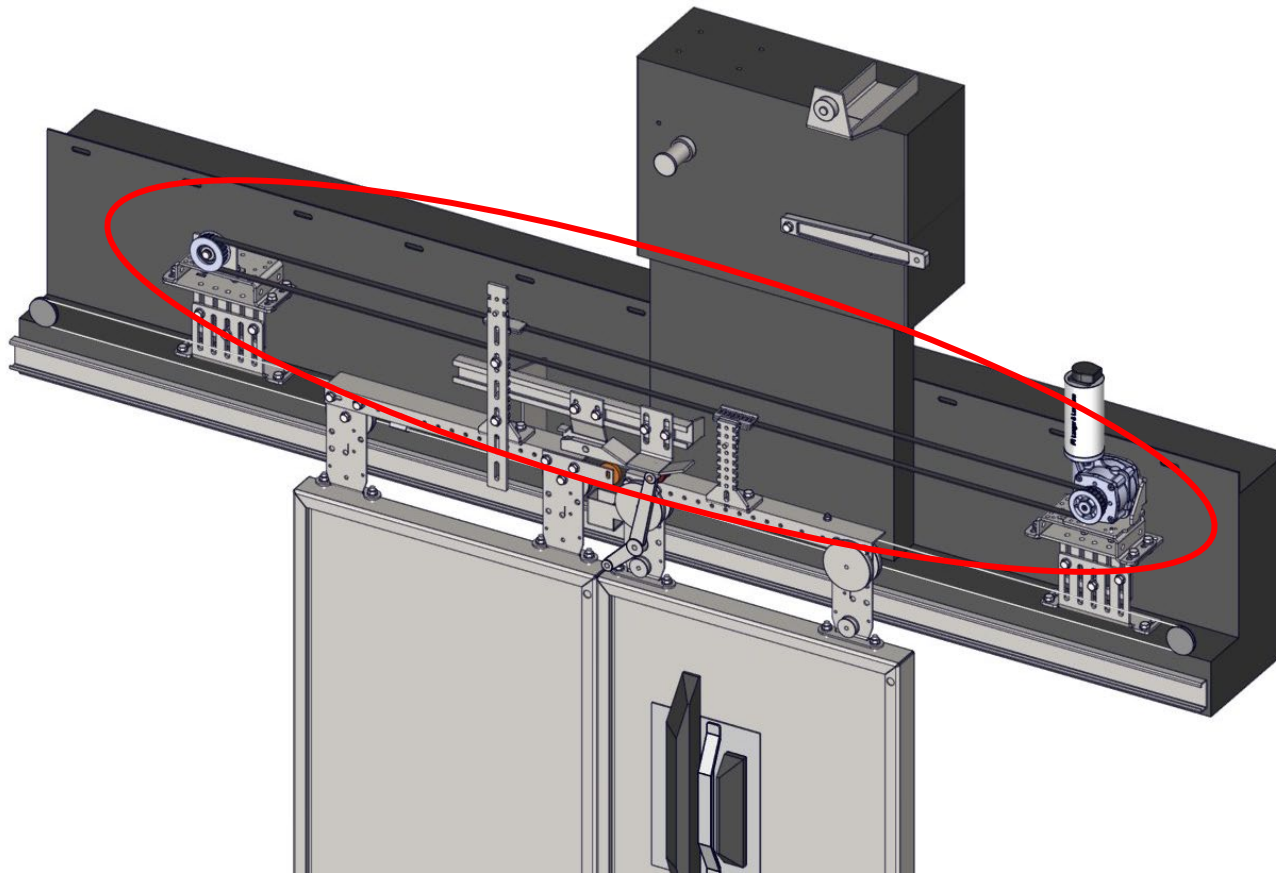


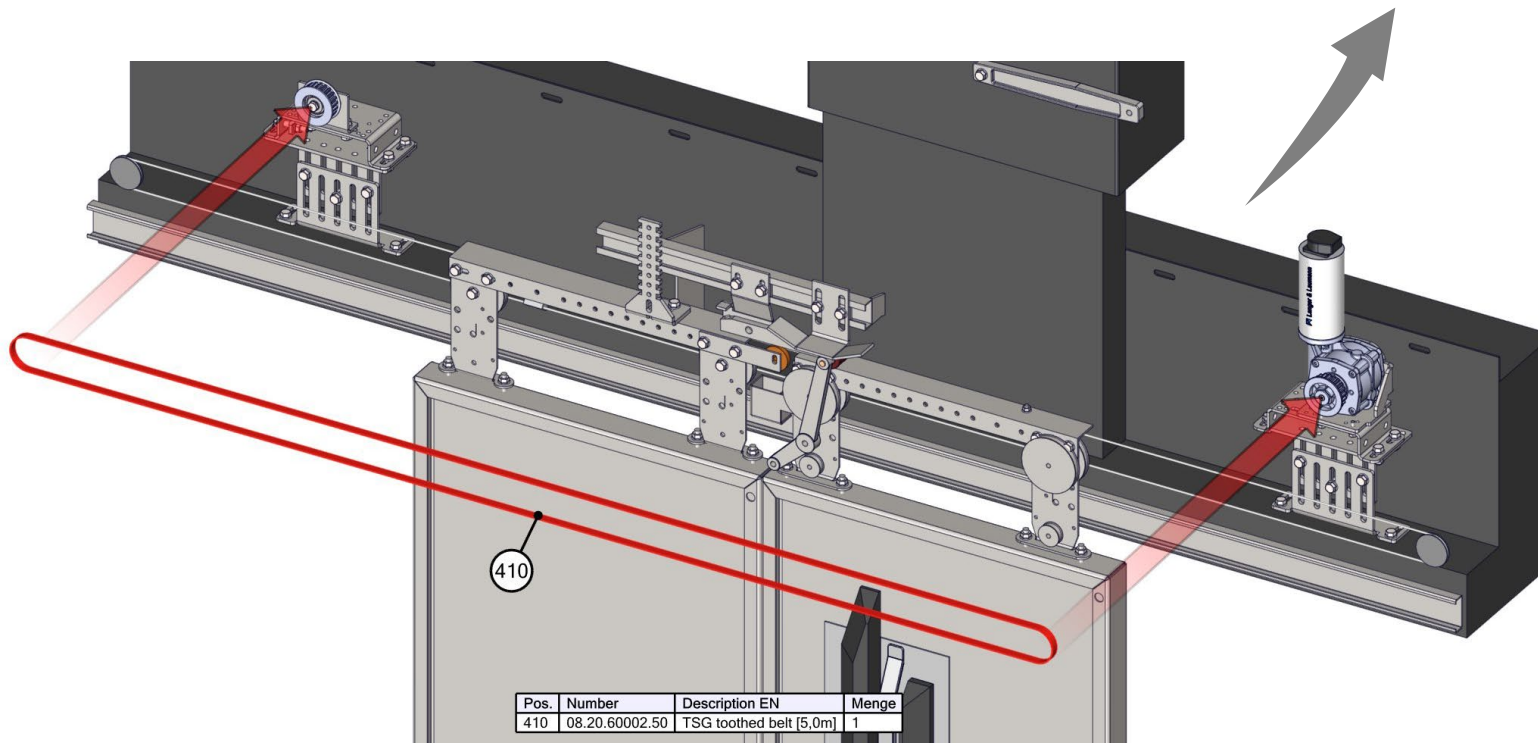
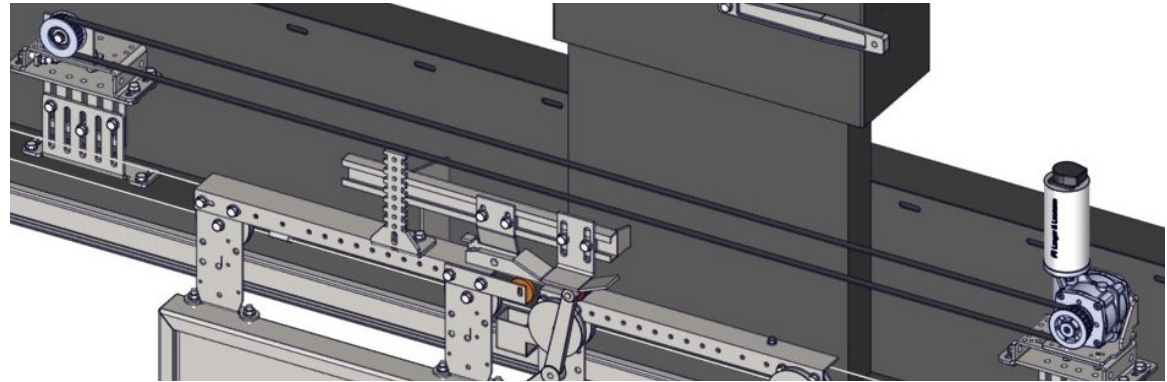
assembly of the door panel coupler

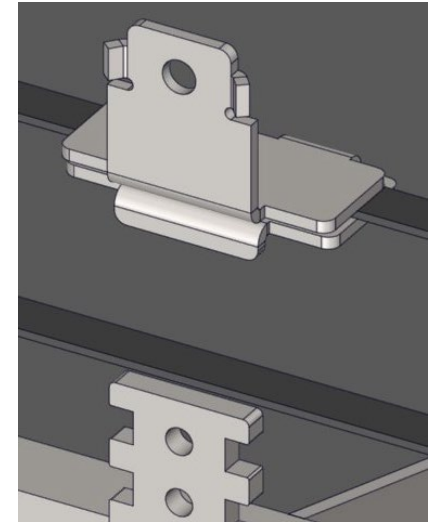
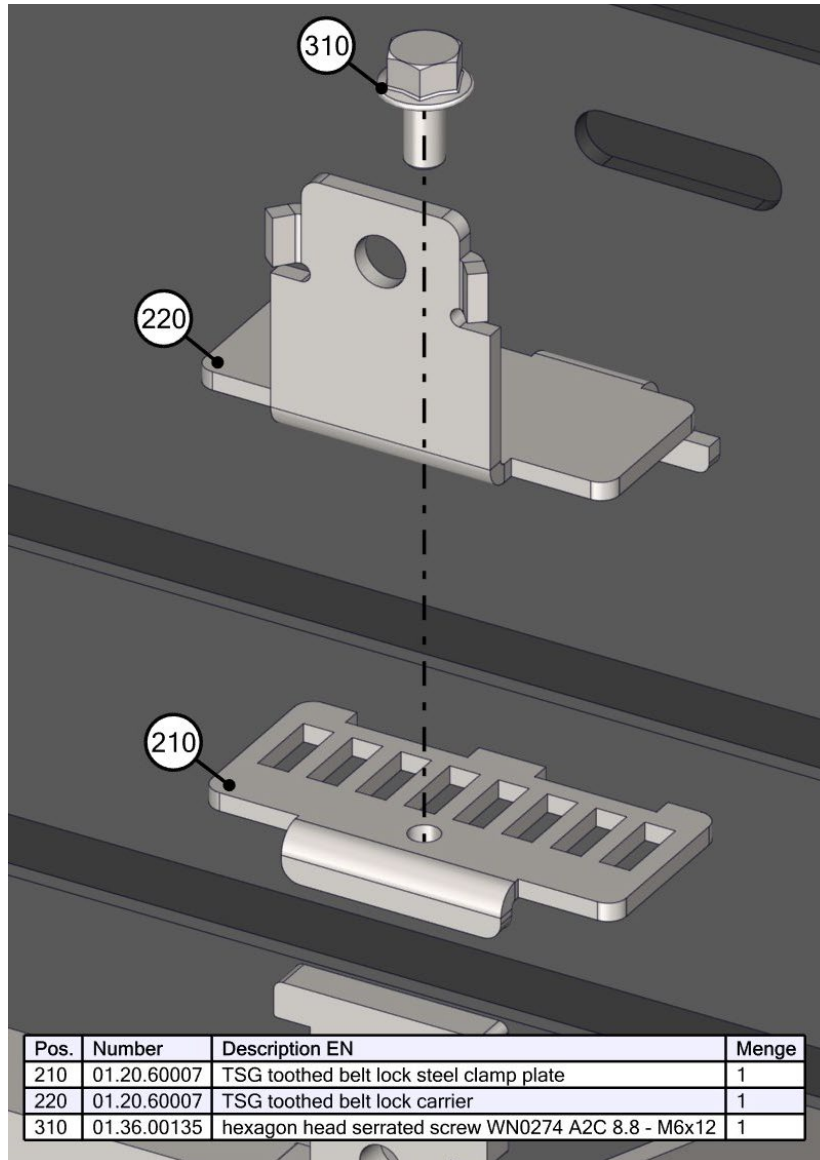




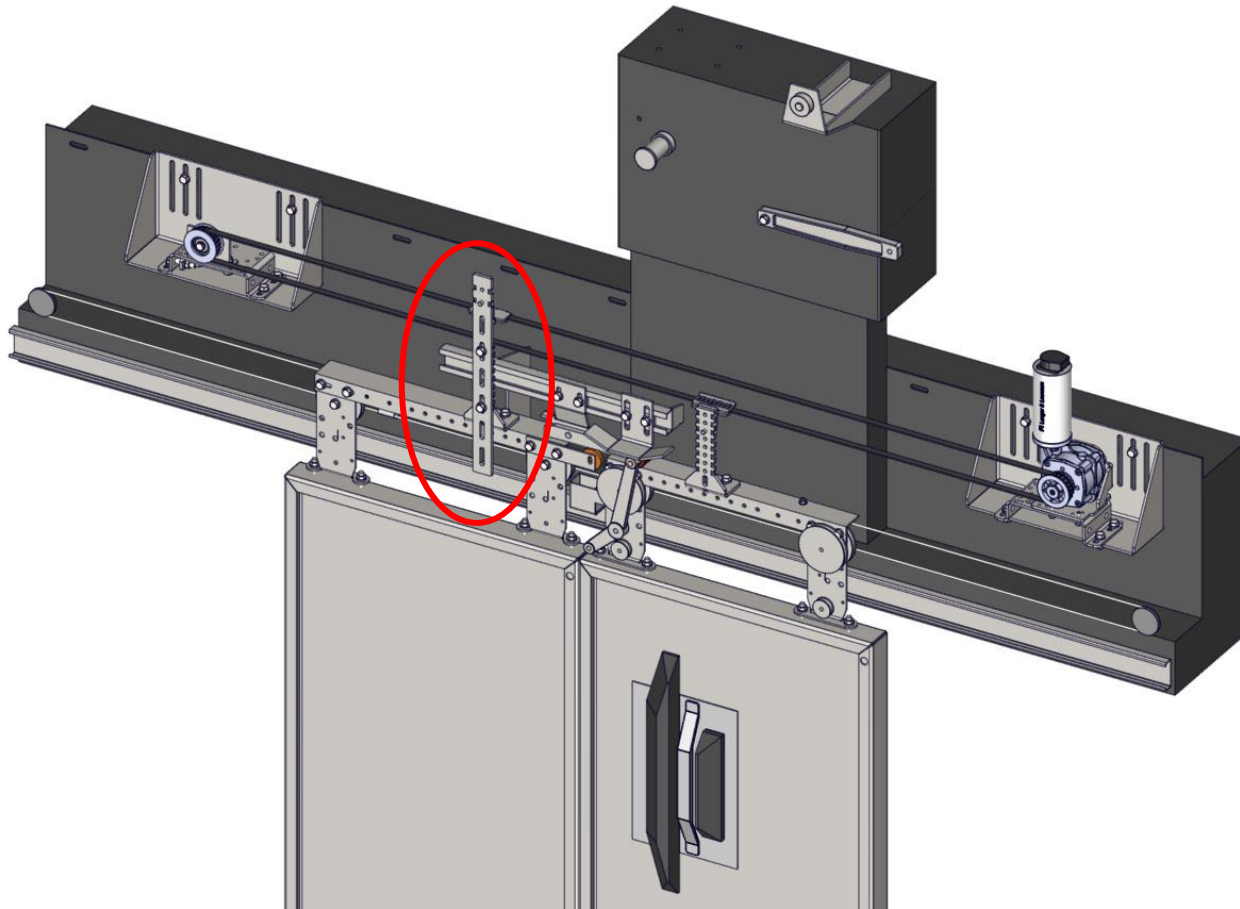
assembly of the toothed belt and toothed belt lock

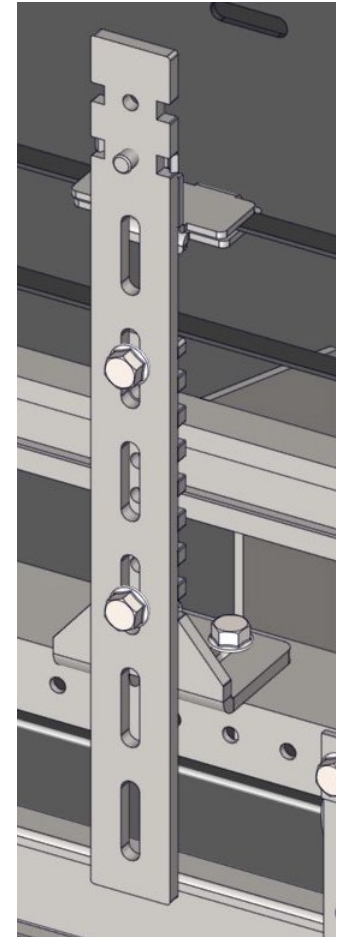
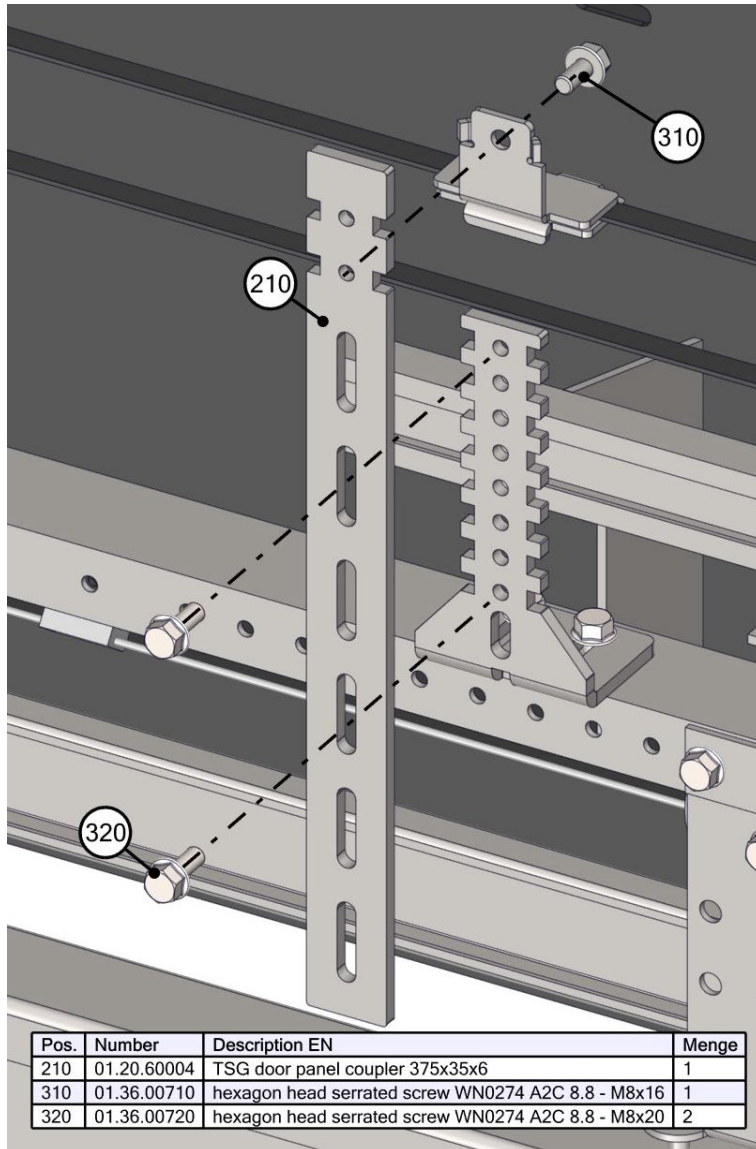




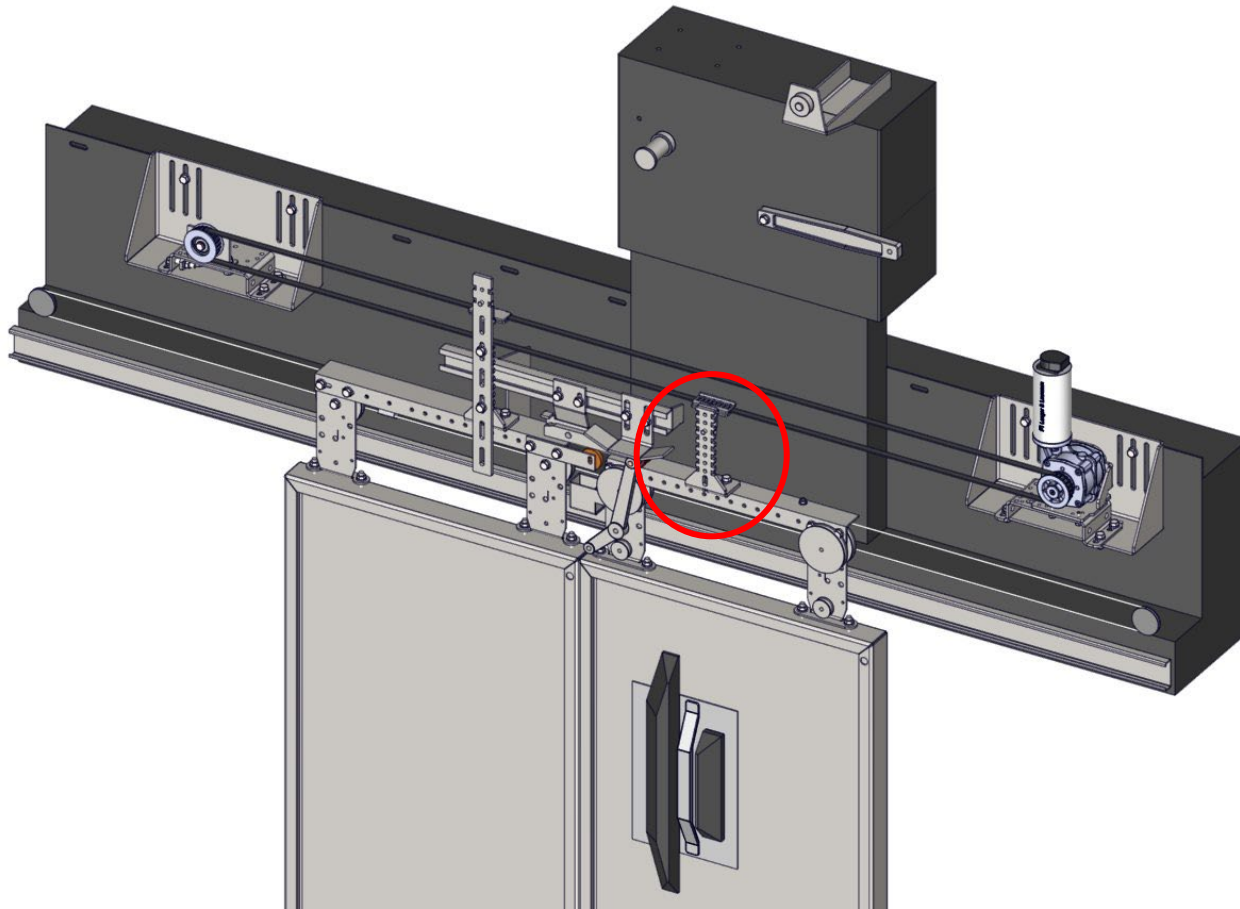


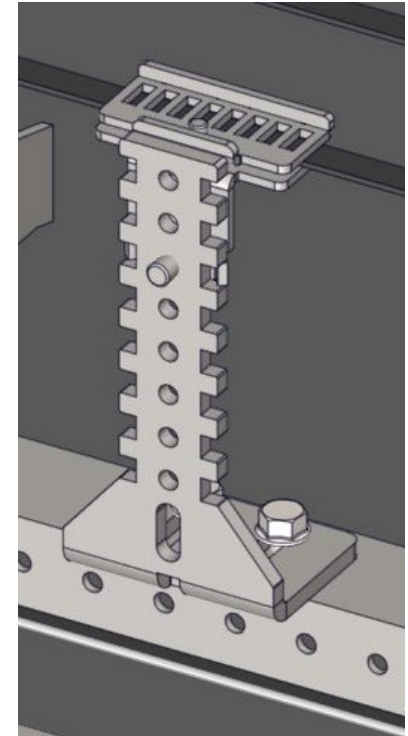
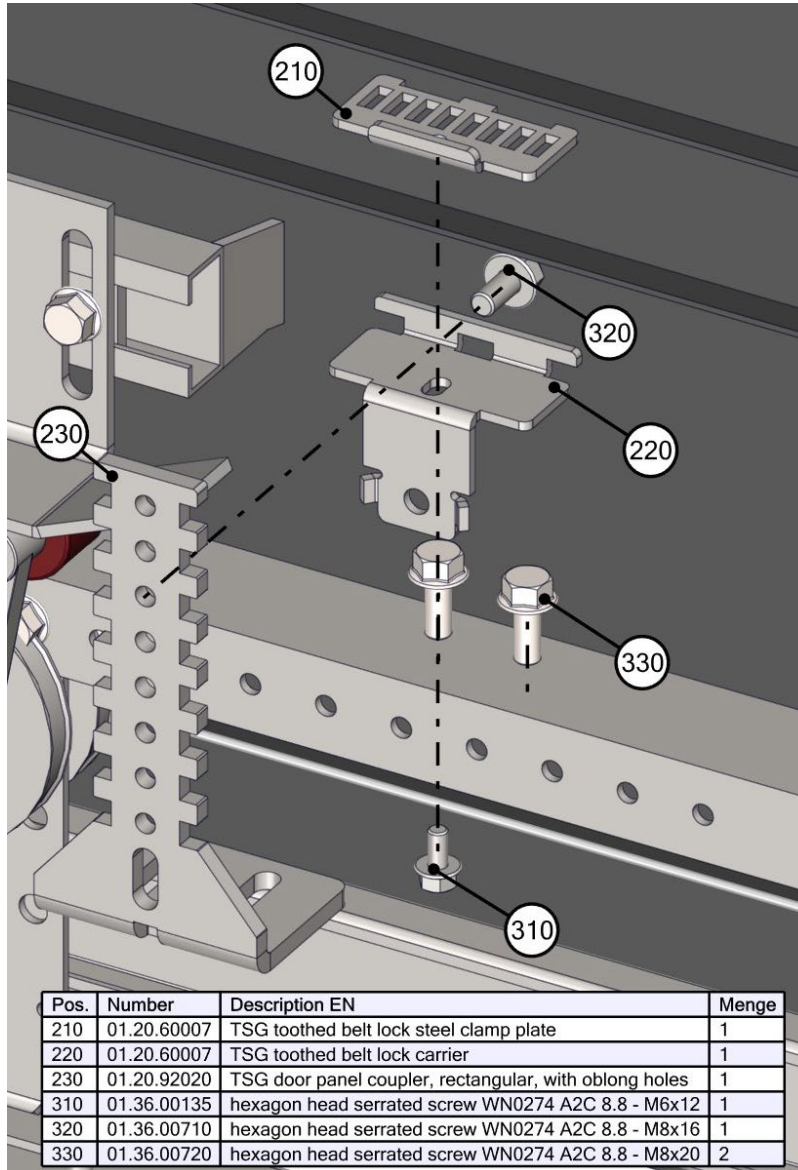
assembly of the left door panel coupler



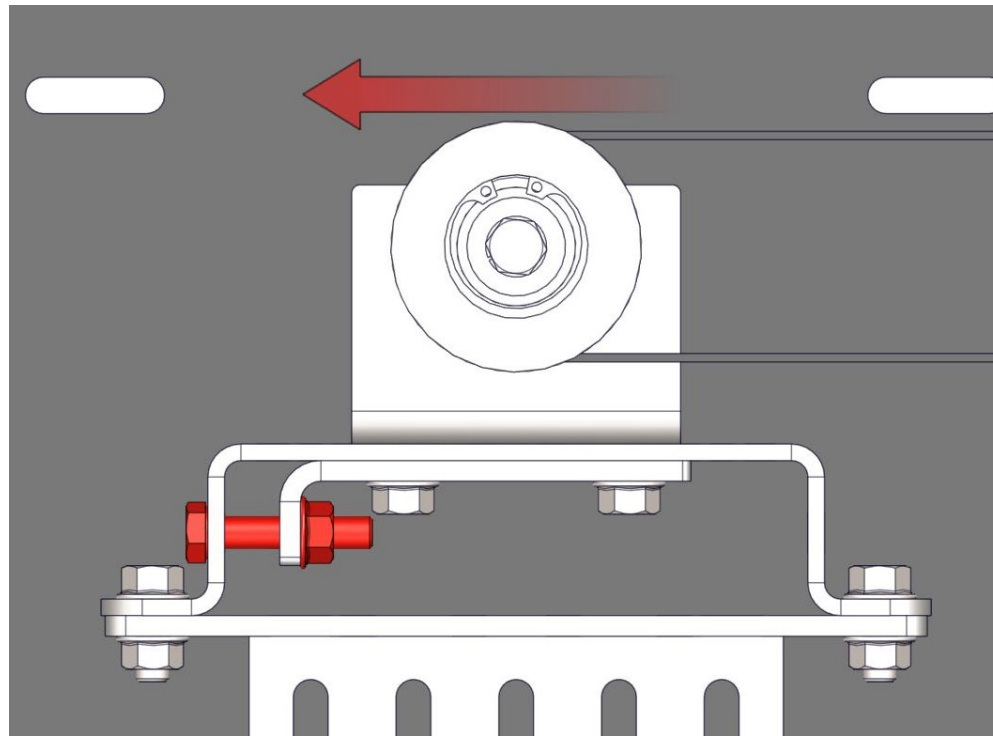


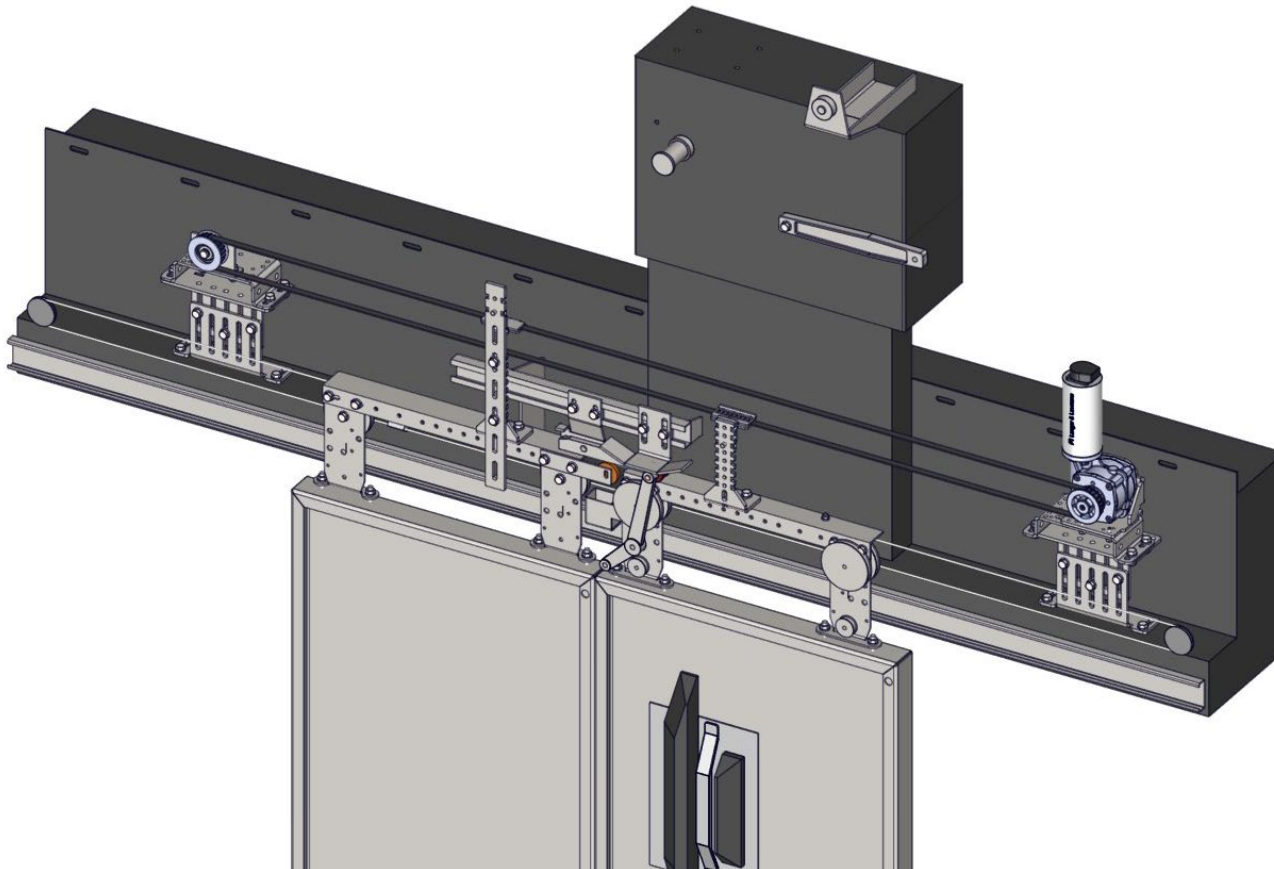
assembly of the right door panel coupler





tensioning tooth belt







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