

Montageanleitung **Assembly Instruction**

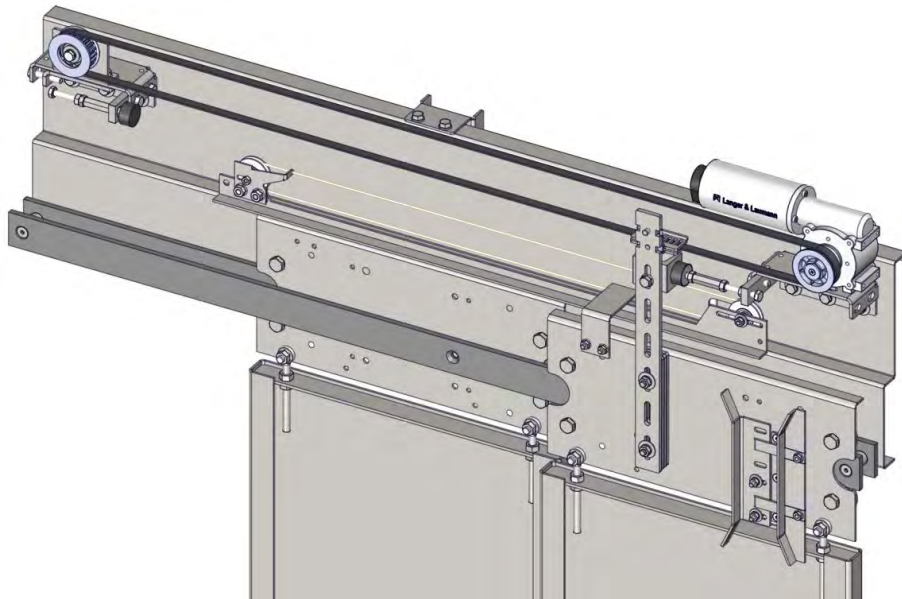
TSG in IGV Sinus **TSG in IGV Sinus**

Version mit Kämpferblech S. 10 - 28
version with door frame p. 10 - 28

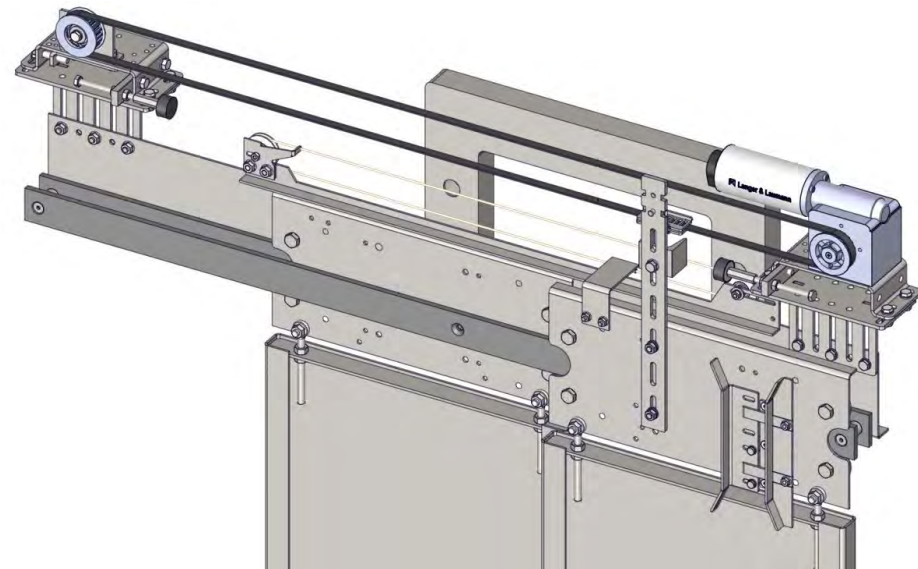
Version mit Traverse S. 29 - 47
version with cross beam p. 29 - 47

TSG in IGV Sinus – **TSG in IGV Sinus**

Version mit Kämpferblech S. 10 - 28
version with door frame p. 10 - 28

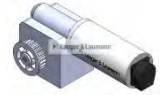


Version mit Traverse S. 29 - 47
version with cross beam p. 29 - 47



Lieferumfang – scope of supply

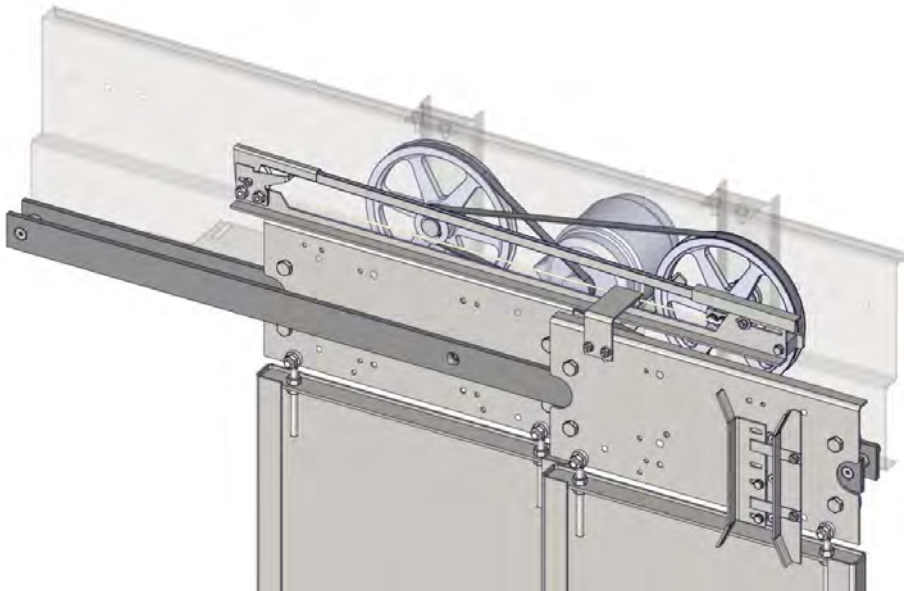


picture	Number	description DE	description EN	quantity
	8.20.00101.04	TSG V4 Lift Door Operator -Electronic extern-	TSG V4 lift door operator -electronic extern- 230[VAC]/50-60	1
	8.20.40000.X1	Motor Gross Links & Getriebe, 24V/4,9A/1:15	motor large left & gearbox, 24V/4,9A/1:15	1
	1.20.60004	TSG Türflügelmitnehmer	TSG door panel coupler	1
	1.20.60046	Futterblech für Türflügelmitnehmer	distance sheet metal for door coupler	3
	1.20.60120	TSG Kombiwinkel, Ausführung schmal, für TSG Motor Groß K oder Umlenkrad	TSG universal bracket,version small,for TSG motor or counter	2
	1.20.60013	TSG Halter für Umlenkrad	TSG bracket for counter roller	1
	8.20.60002.40	TSG Zahnriemen [4,0m]	TSG toothed belt [4,0m]	1
	1.20.92010	Montageplatte für Kombiwinkel 'Hut', rechtwinkelig, mit Langlöcher	fixing plate for combi bracket 'hat', rectangular	2

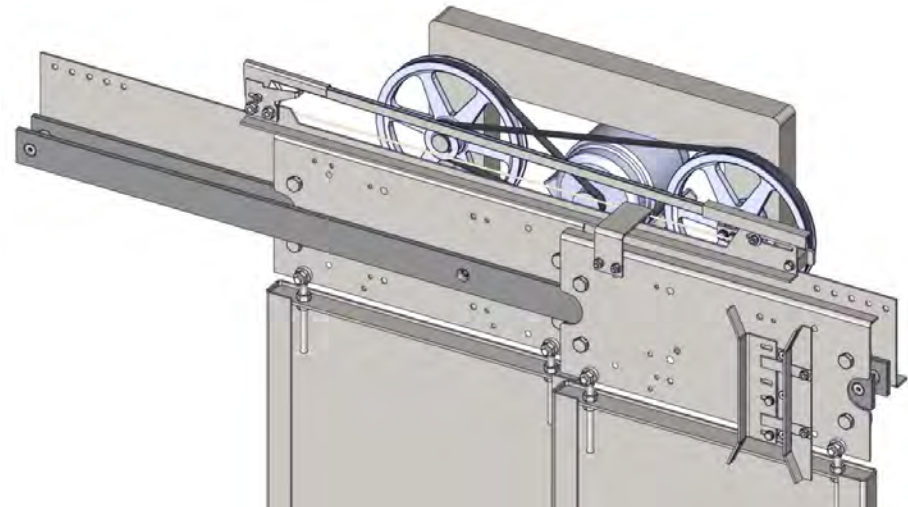
picture	Number	description DE	description EN	quantity
	1.20.10015	TSG Beschlagsatz für Umbau HUT-Winkel, Komplett im Karton	TSG fitting set for TSG universal bracket "hat", complete	1
	8.20.13410	Schraubentüte	screw bag	1
	1.36.00176	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x25	Hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x25	14
	1.36.00387	Senkkopfschraube mit Innensechskant DIN7991 vz 8.8 - M8x40	countersunk head screw w.recessed head DIN7991 vz8.8 - M8x40	2
	1.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	16
	1.36.00430	Sechskantmutter DIN934-8 vz 8.8 - M8	hexagon nut DIN934-8 vz 8.8 - M8	10
	1.36.00440	Scheibe DIN125A vz - 8,4	washer DIN125A vz - 8,4	16

Vor Umbau – before conversion

**Version mit Kämpferblech –
version with door frame**



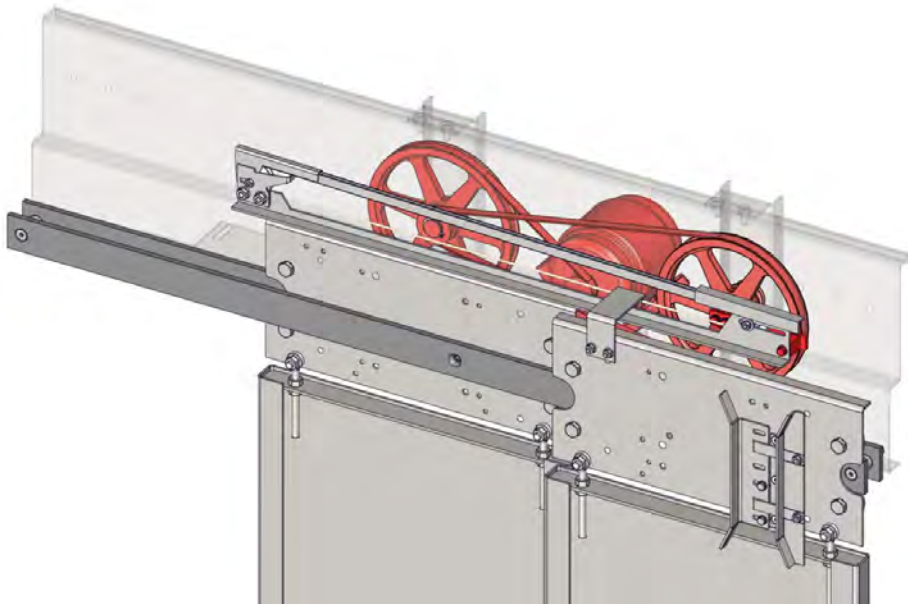
**Version mit Traverse –
version with cross beam**



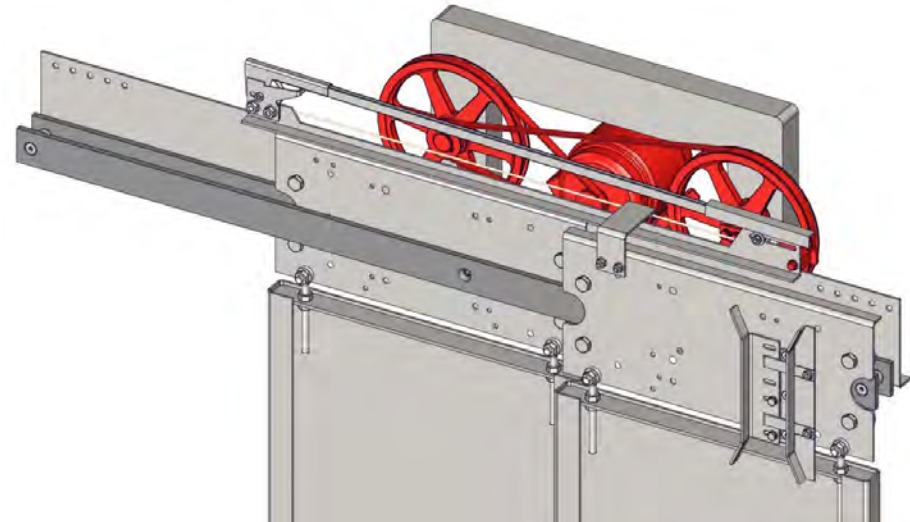
**TR spiegelbildlich –
TR mirrored**

Vor Umbau entfernen, Ansicht Vorderseite – **remove before conversion, front view**

Version mit Kämpferblech –
version with door frame



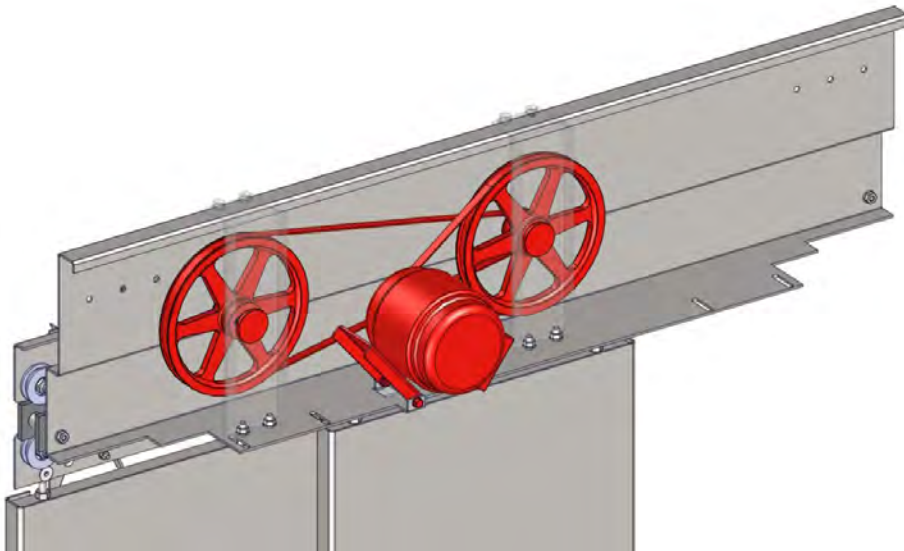
Version mit Traverse –
version with cross beam



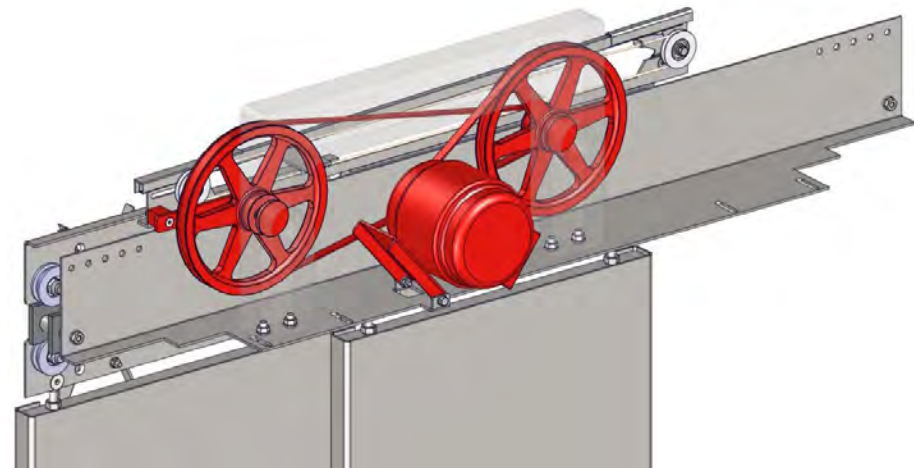
TR spiegelbildlich –
TR mirrored

Vor Umbau entfernen, Ansicht Rückseite – remove before conversion, back view

**Version mit Kämpferblech –
version with door frame**



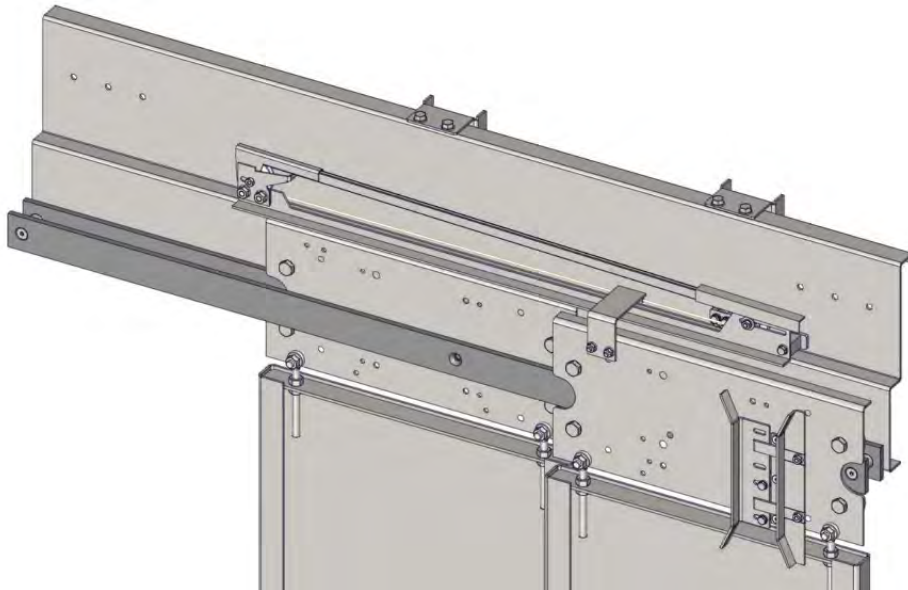
**Version mit Traverse –
version with cross beam**



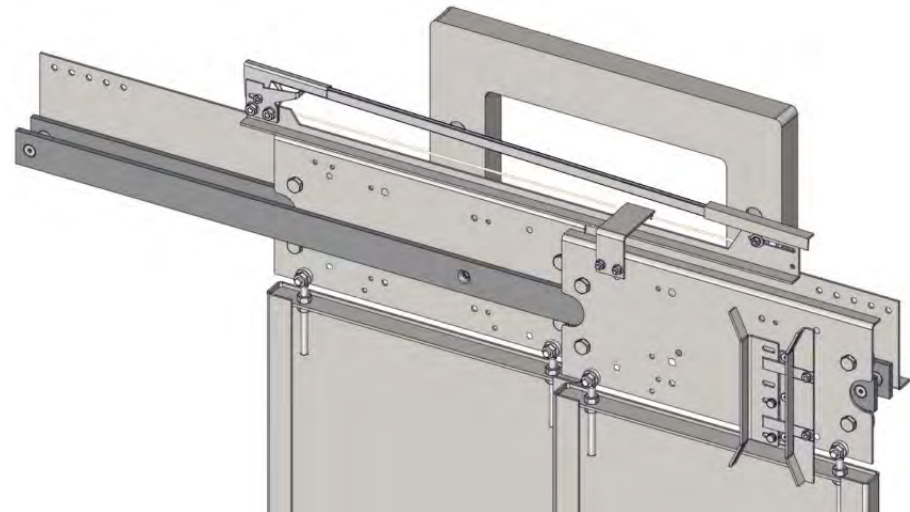
**TR spiegelbildlich –
TR mirrored**

Nach Demontage, Ansicht Vorderseite – after disassembly, front view

**Version mit Kämpferblech –
version with door frame**



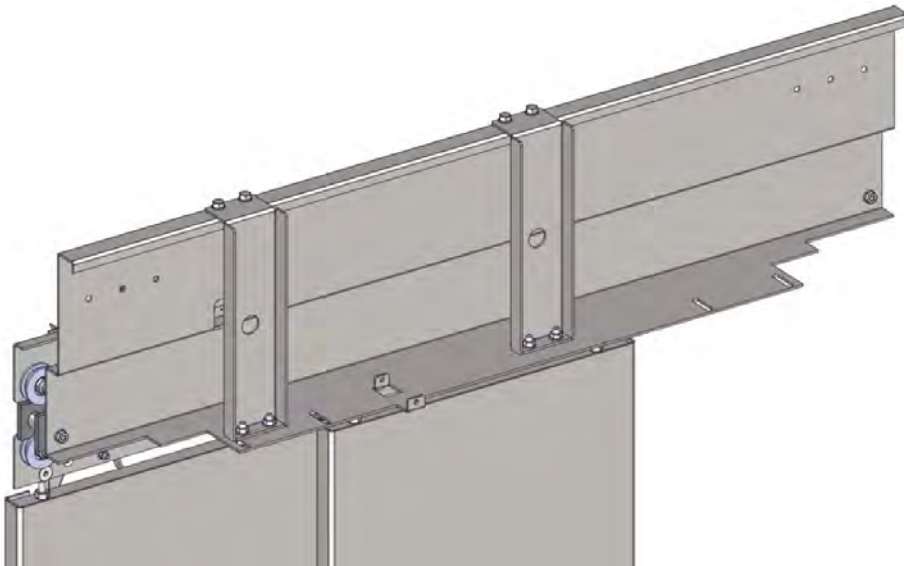
**Version mit Traverse –
version with cross beam**



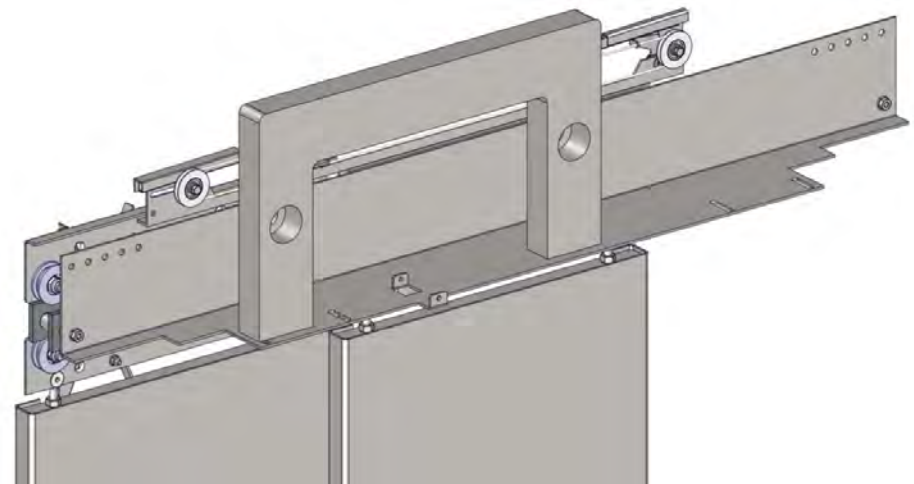
**TR spiegelbildlich –
TR mirrored**

Nach Demontage, Ansicht Rückseite – after disassembly, back view

**Version mit Kämpferblech –
version with door frame**



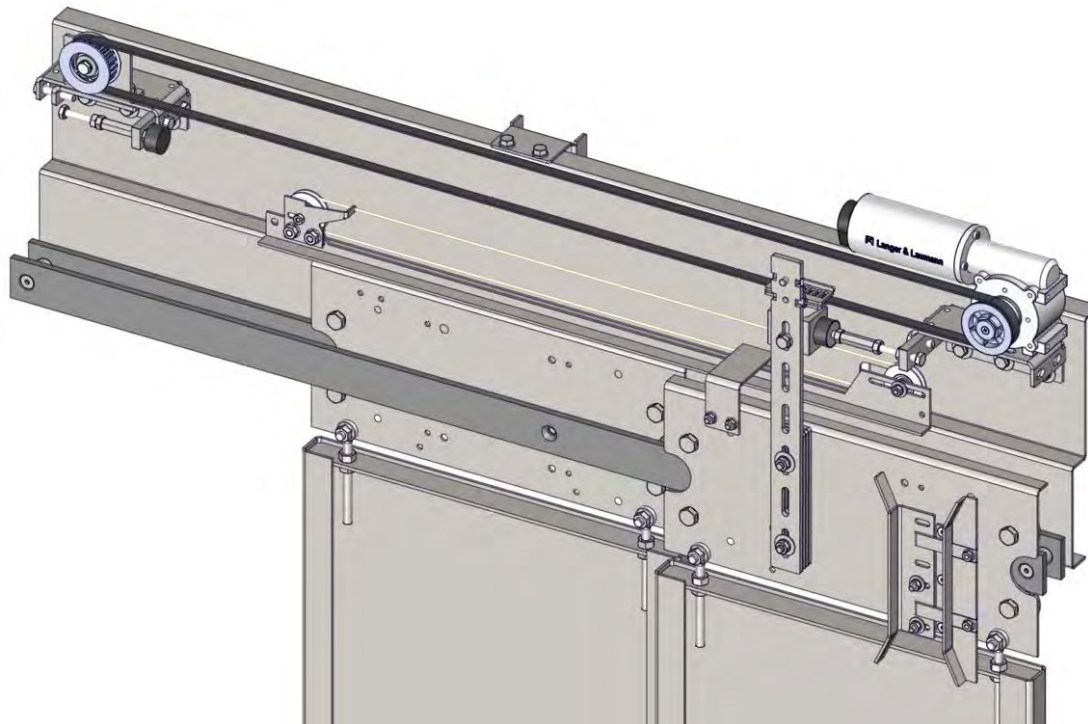
**Version mit Traverse –
version with cross beam**



**TR spiegelbildlich –
TR mirrored**

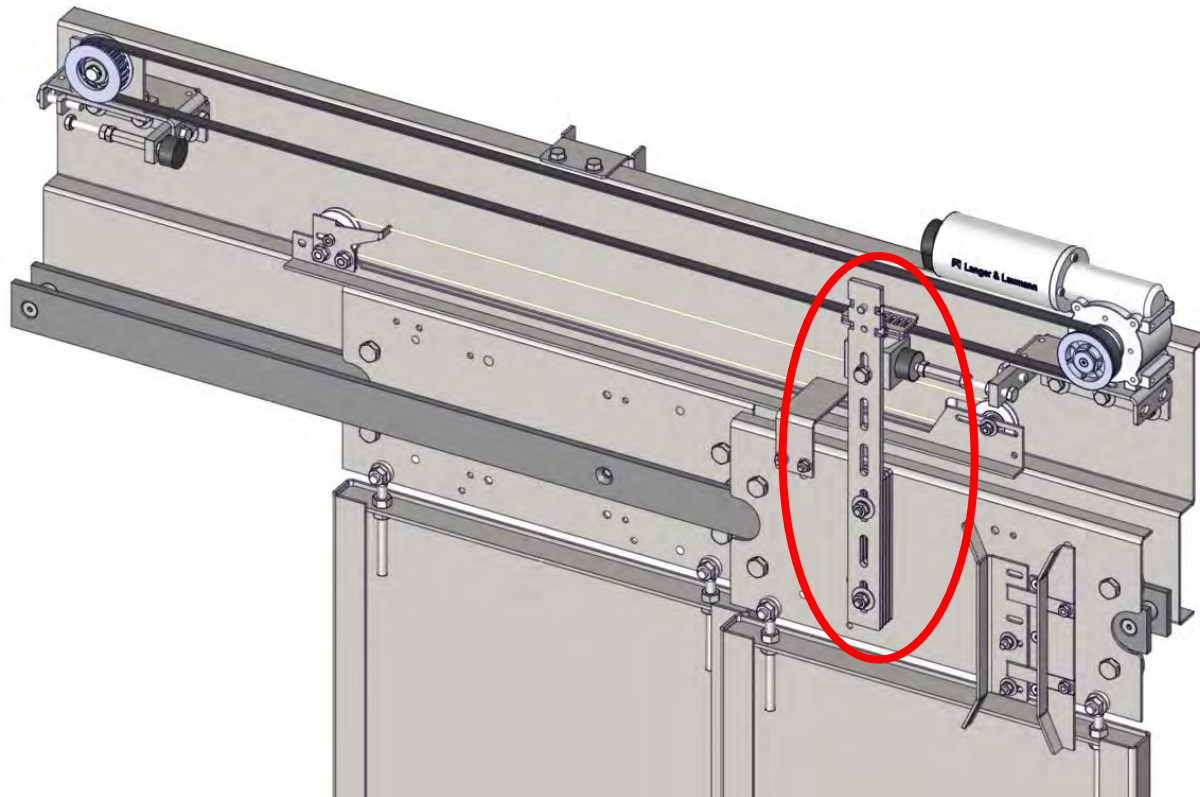
TSG in IGV Sinus – **TSG in IGV Sinus**

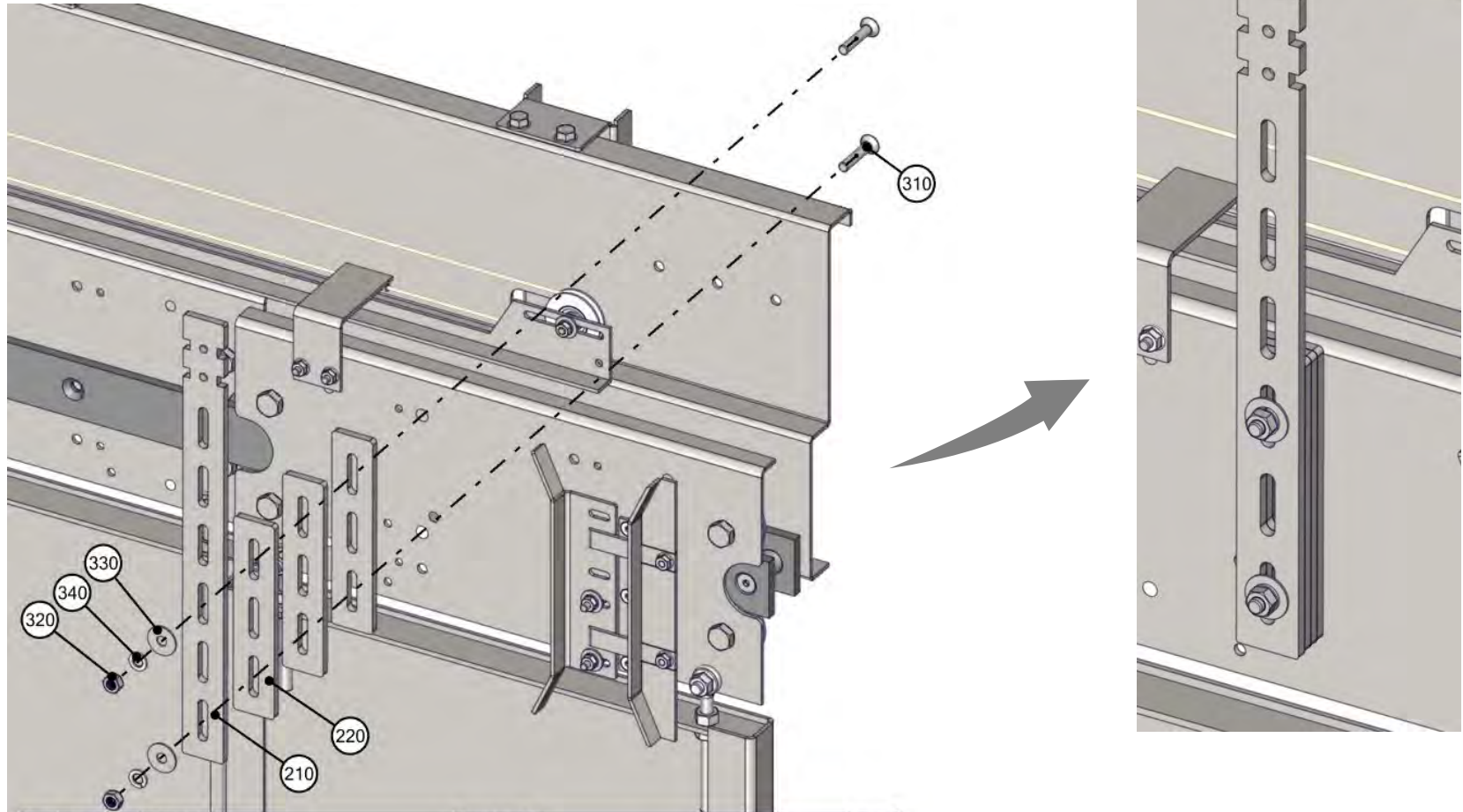
Version mit Kämpferblech –
version with door frame



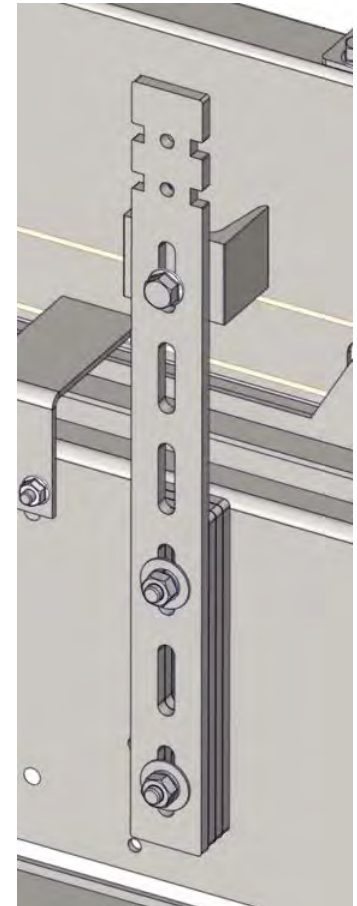
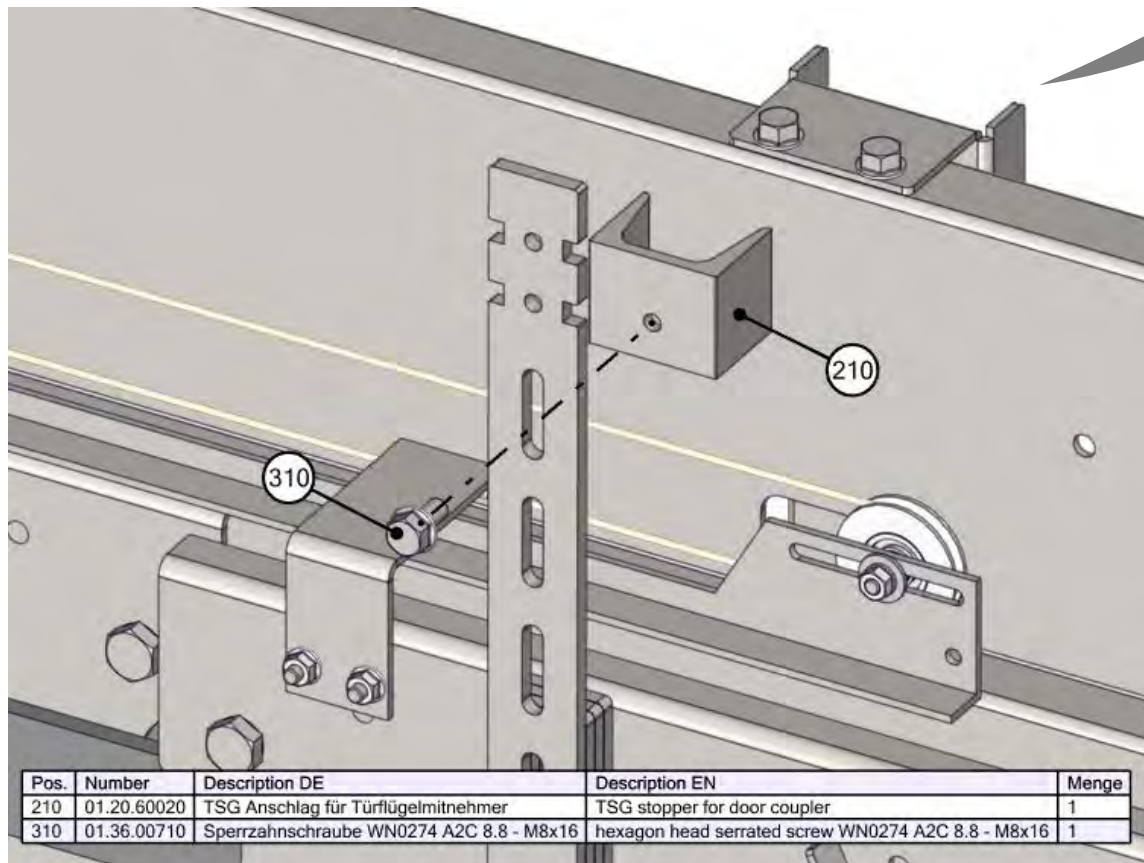
TR spiegelbildlich –
TR mirrored

Montage Türflügelmitnehmer – assembly of the door panel coupler

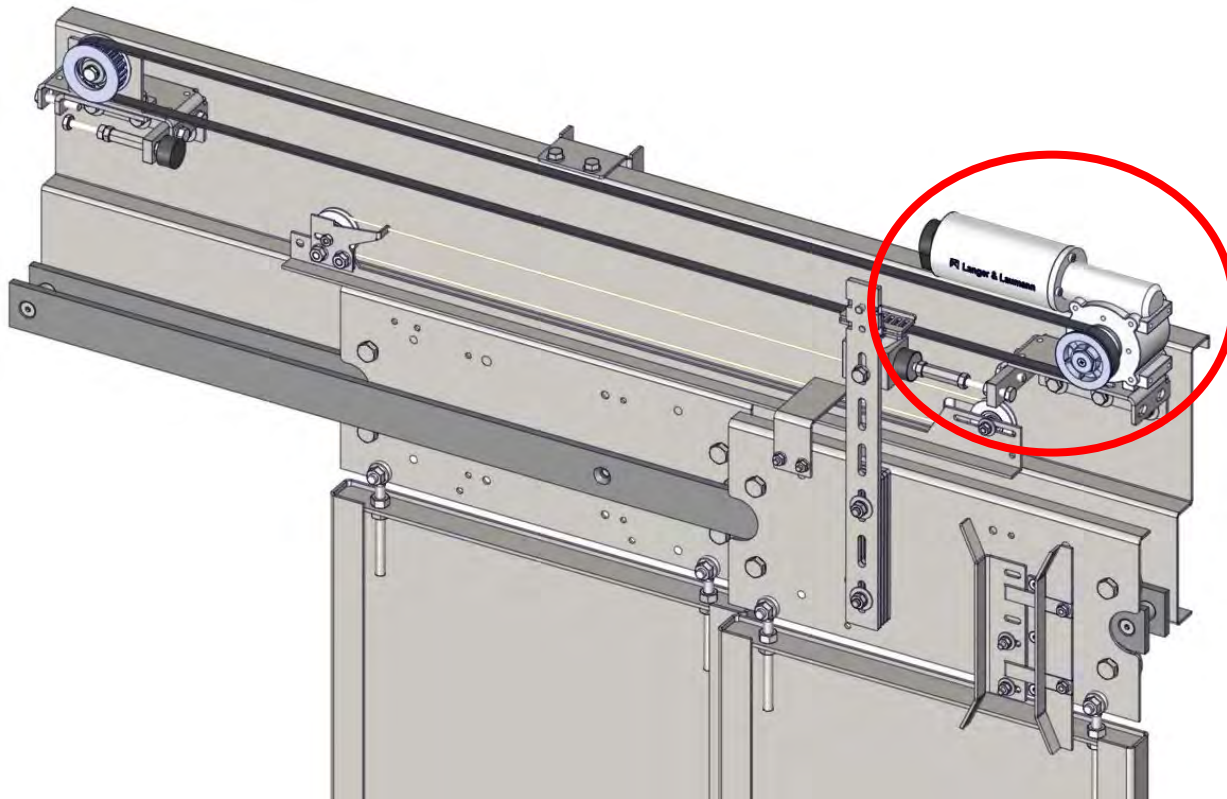


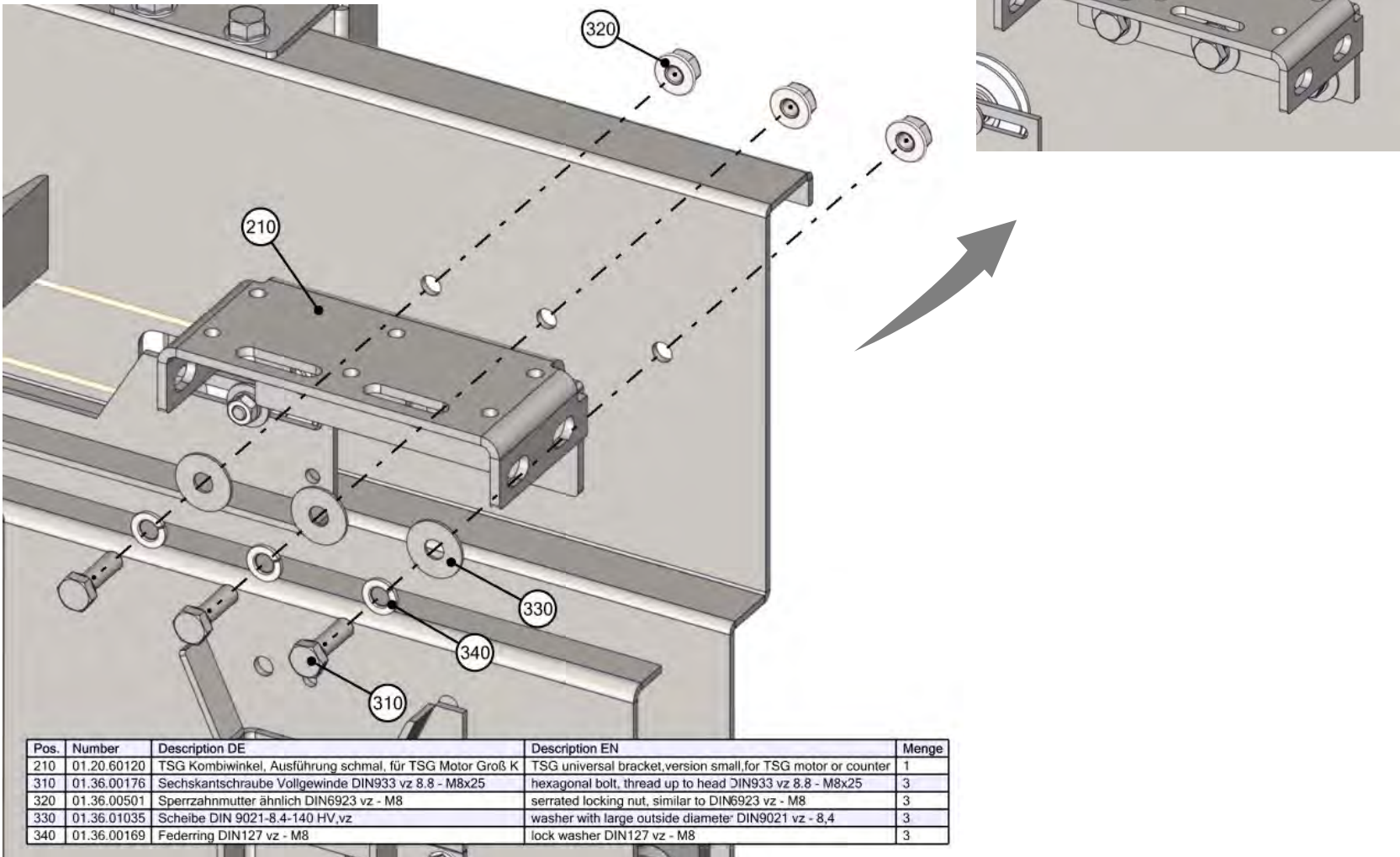


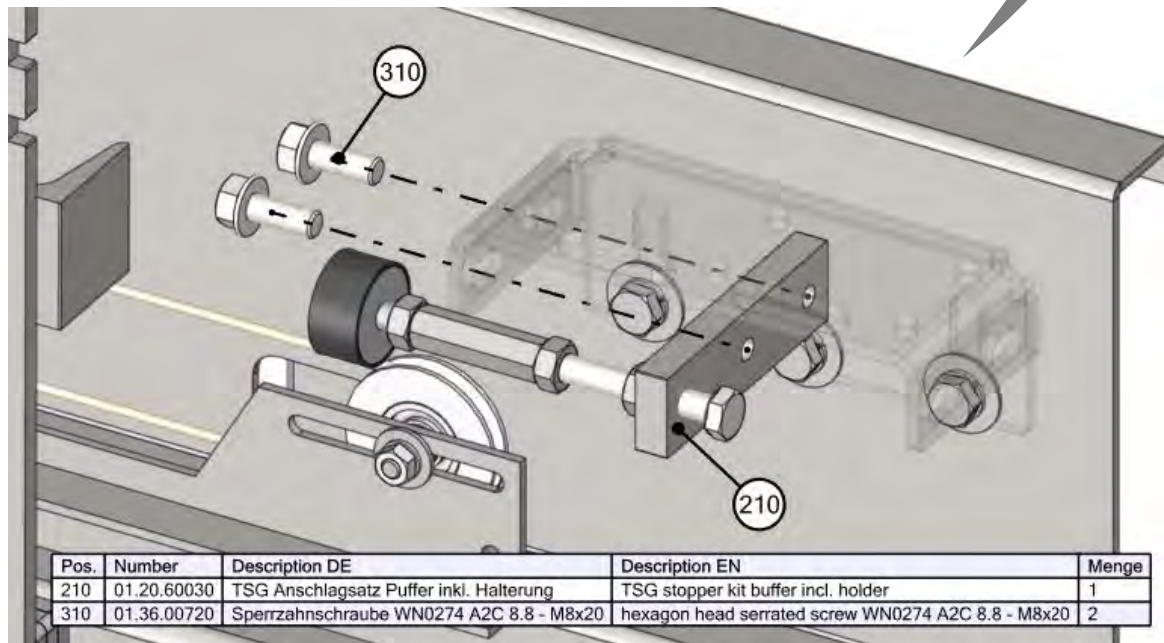
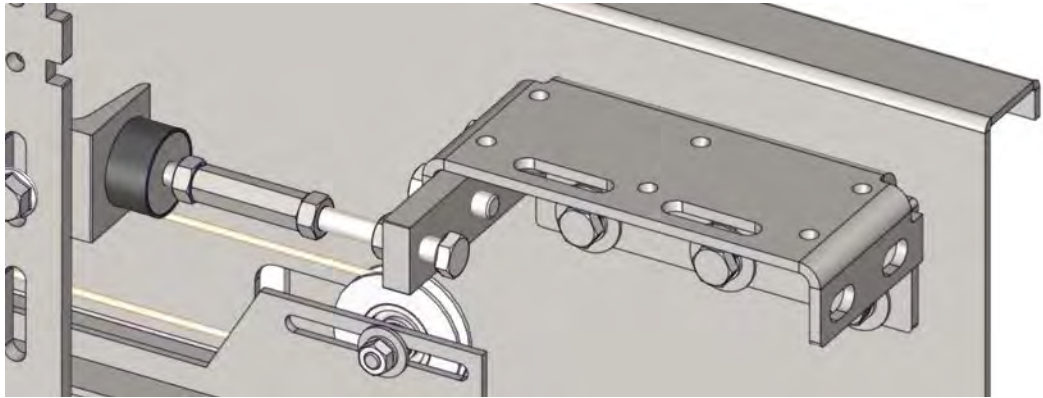
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60004	Türflügelmitnehmer 375x35x6	TSG door panel coupler 375x35x6	1
220	01.20.60046	Futterblech für Türflügelnehmer	distance sheet metal for door coupler	3
310	01.36.00387	Senkschraube m.Innensechskant ISO10642-M8x40	countersunk head screw w.recessed head DIN7991 vz8.8 - M8x40	2
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8.vz	hexagon nut DIN934-8 vz 8.8 - M8	2
330	01.36.01035	Scheibe DIN 9021-8,4-140 HV.vz	washer with large outside diameter DIN9021 vz - 8,4	2
340	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	2



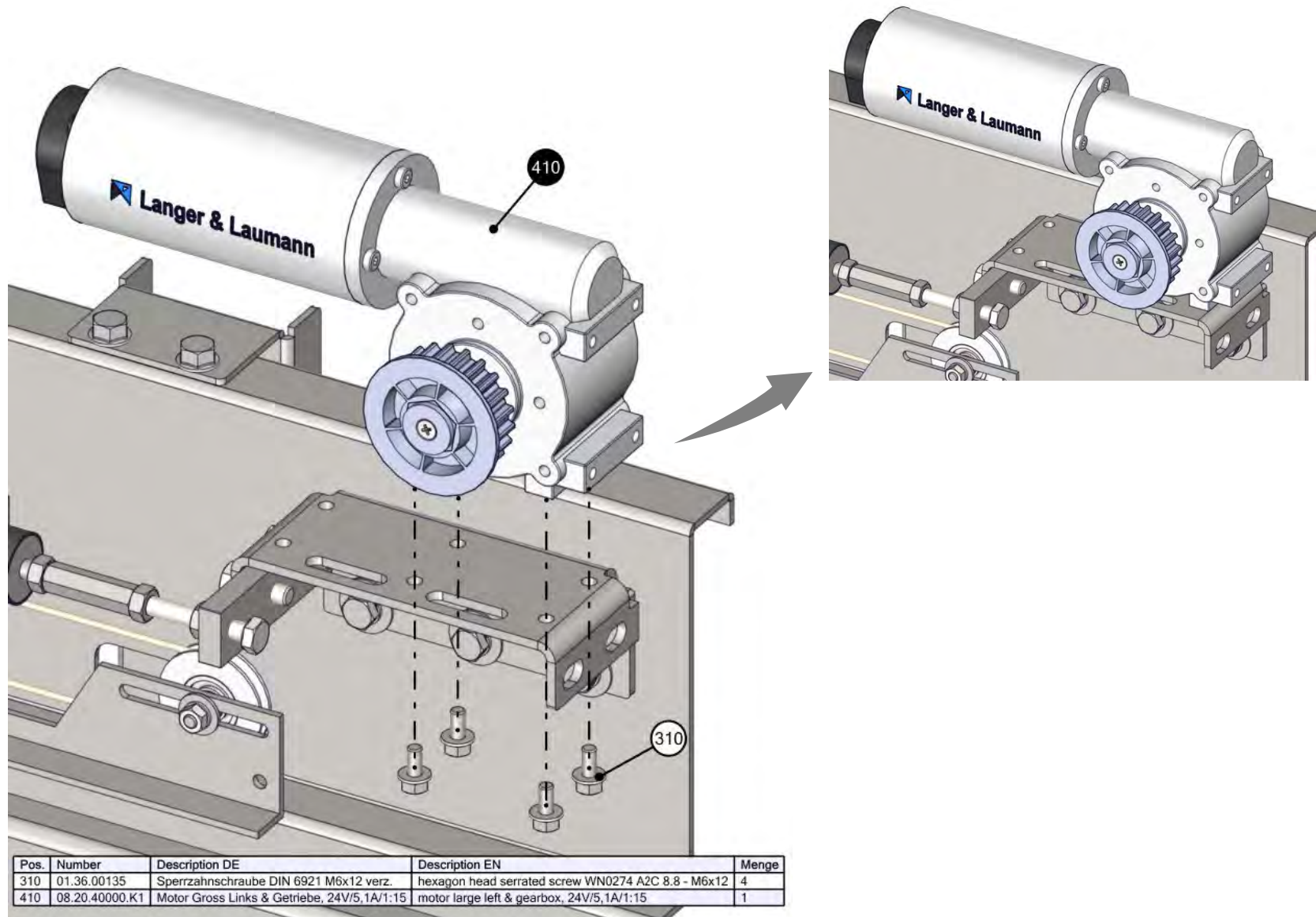
Montage Motor – assembly of the motor



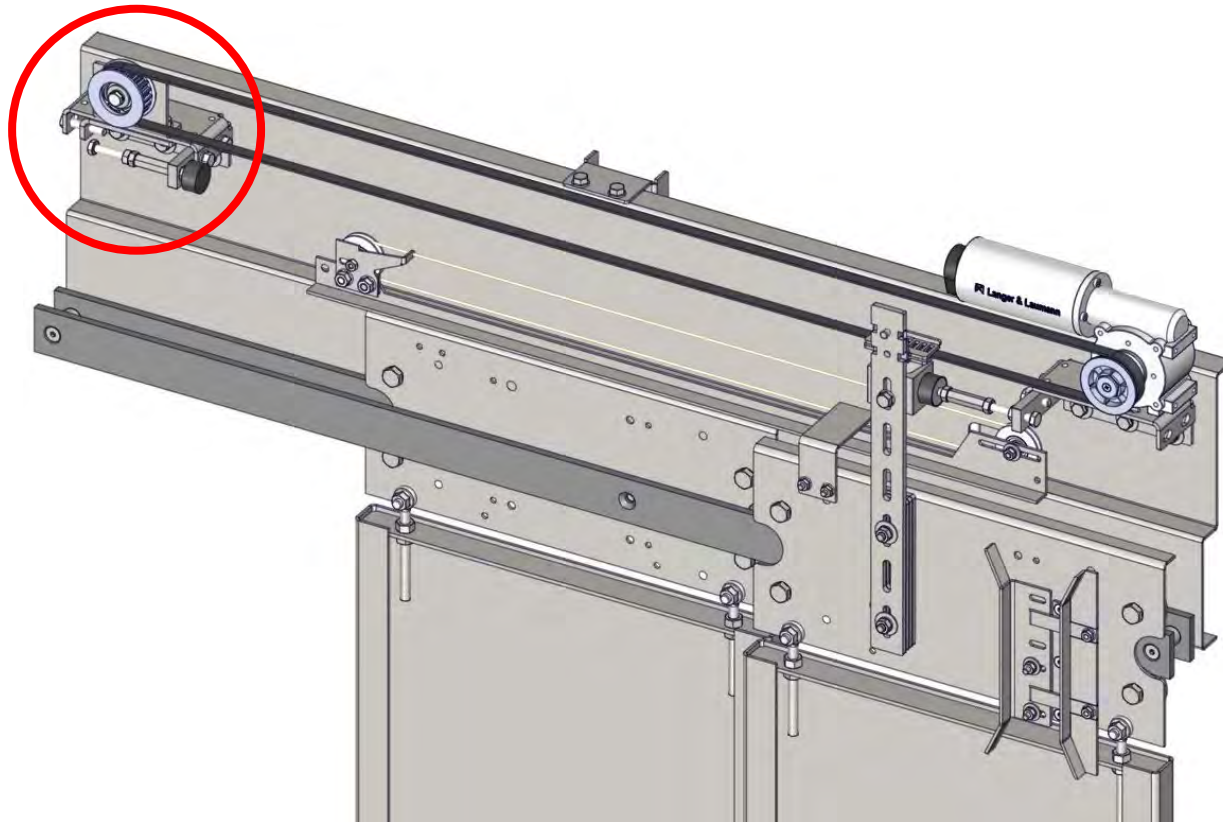


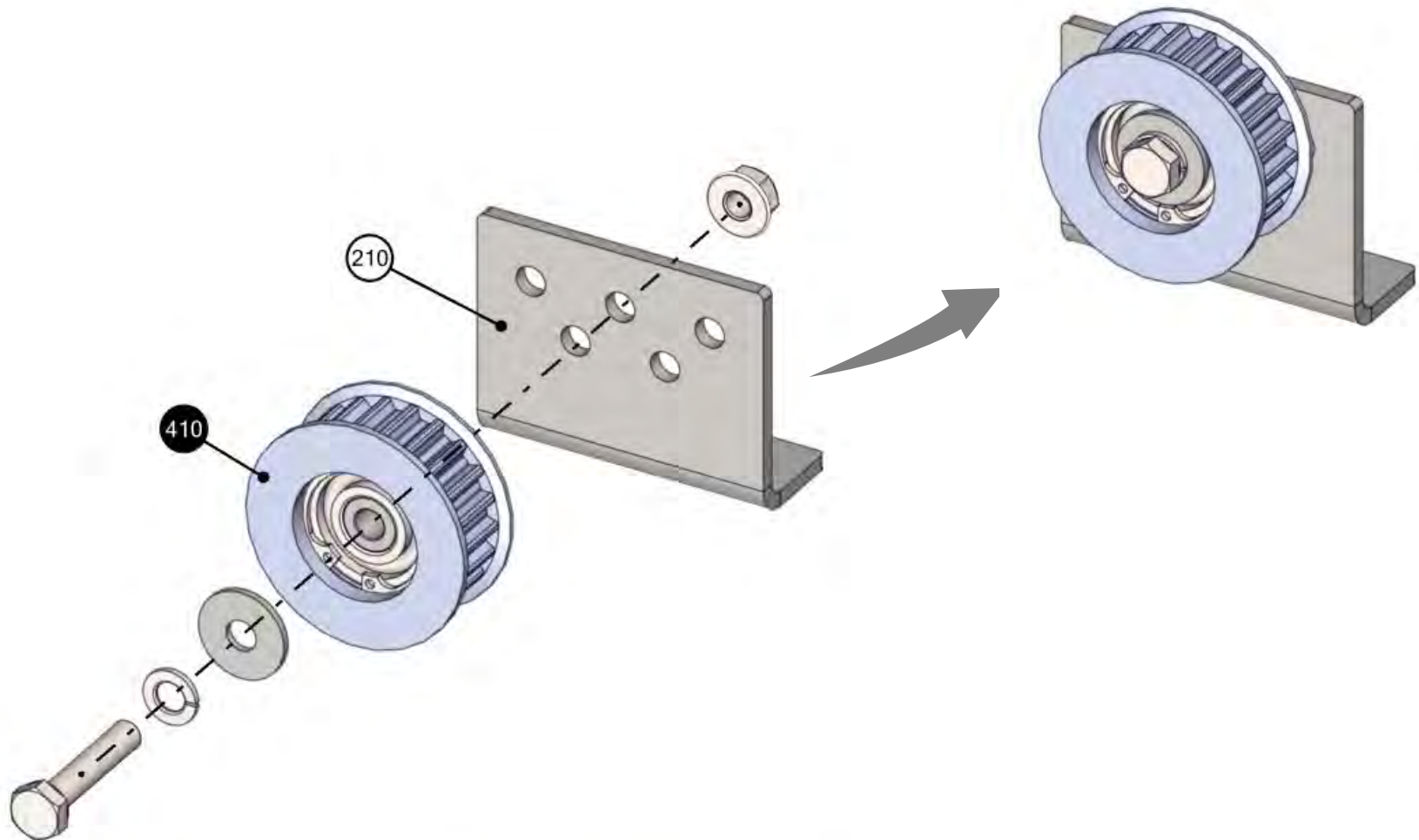


Pos.	Number	Description DE	Description EN	Menge
210	01.20.60030	TSG Anschlagsatz Puffer inkl. Halterung	TSG stopper kit buffer incl. holder	1
310	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2

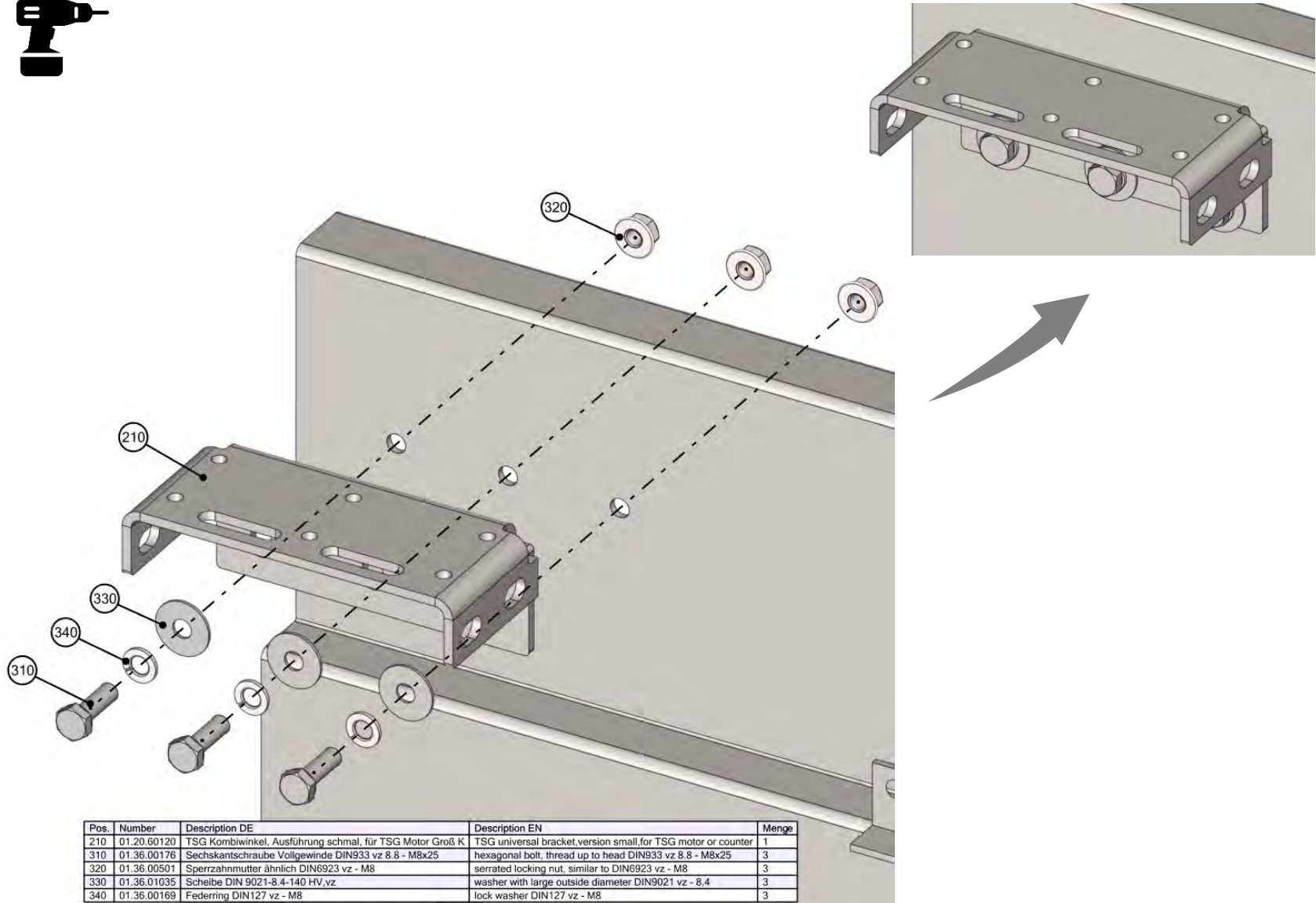


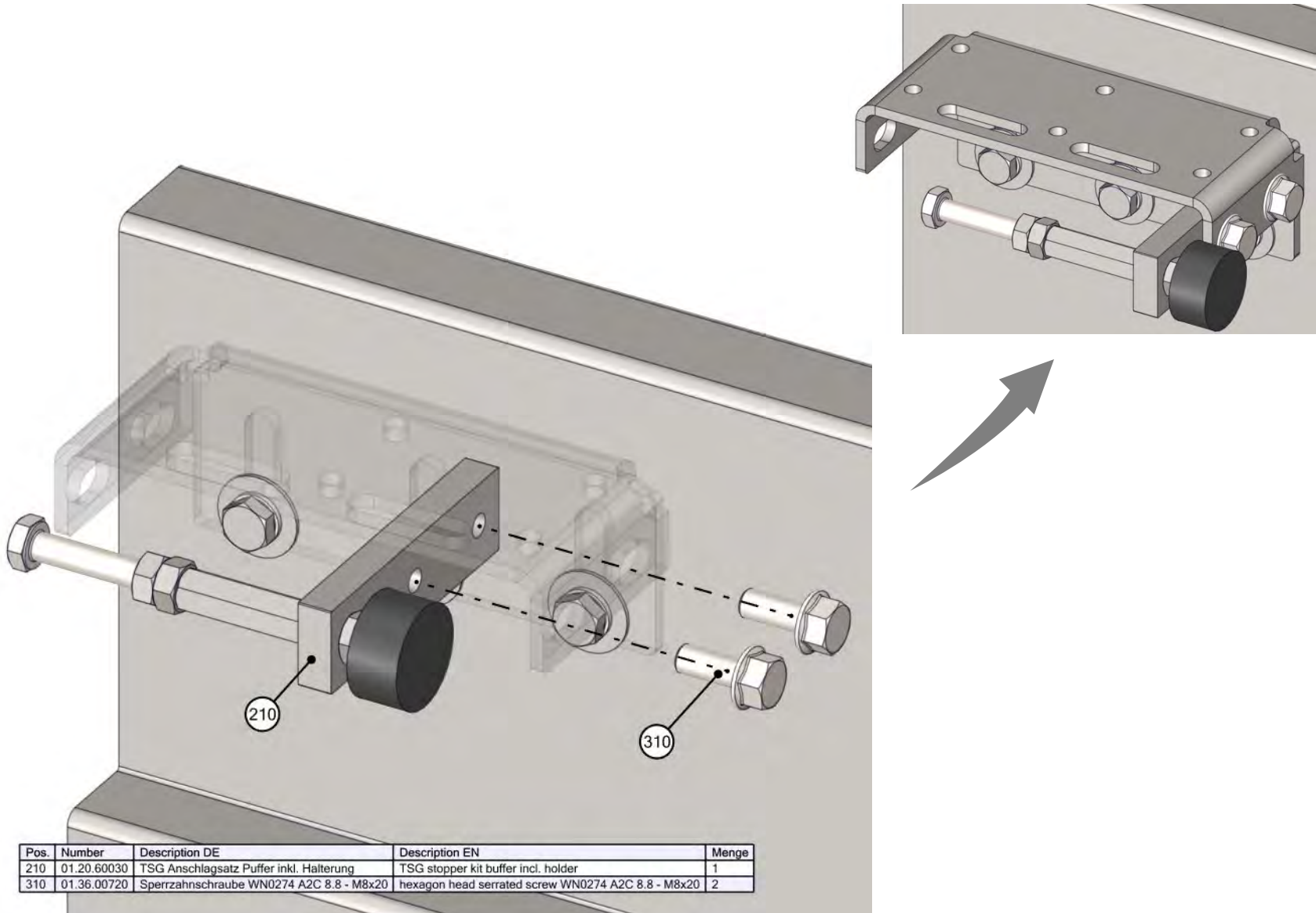
Montage Umlenkrolle – assembly of the counter roller

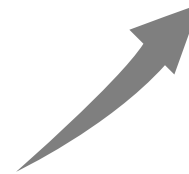
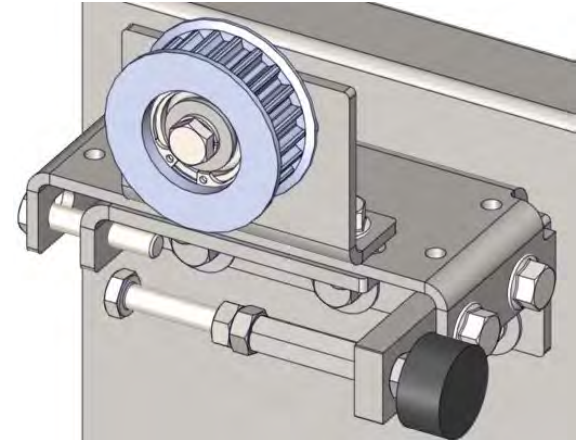
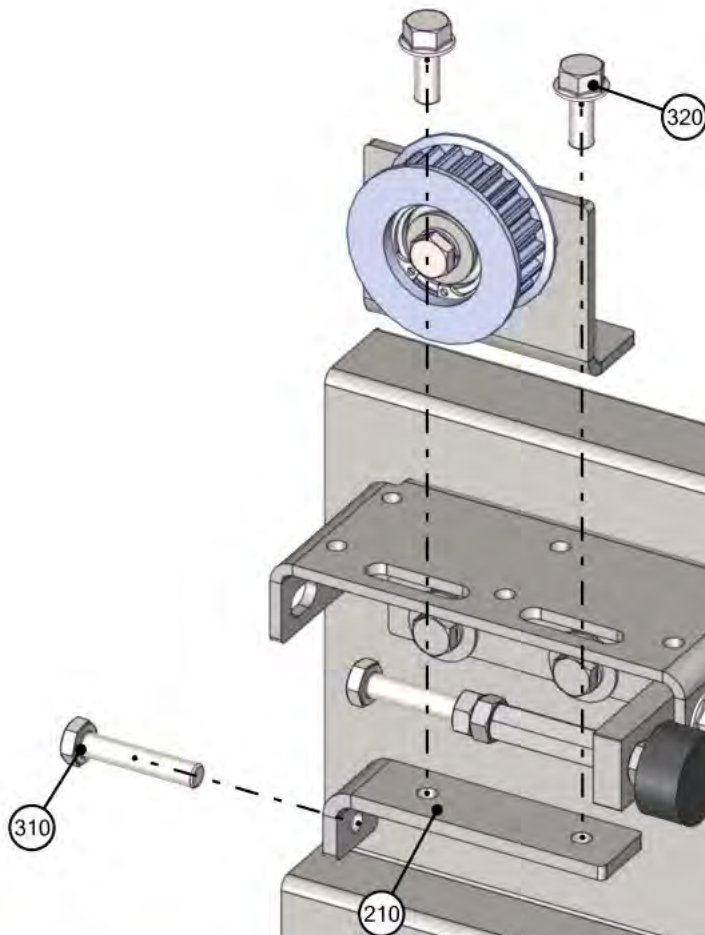




Pos.	Number	Description DE	Description EN	Menge
210	01.20.60013	Halterung Umlenkrolle für Spannstation	TSG bracket for counter roller	1
410	01.20.60003	TSG Umlenkrad	TSG counter roller	1

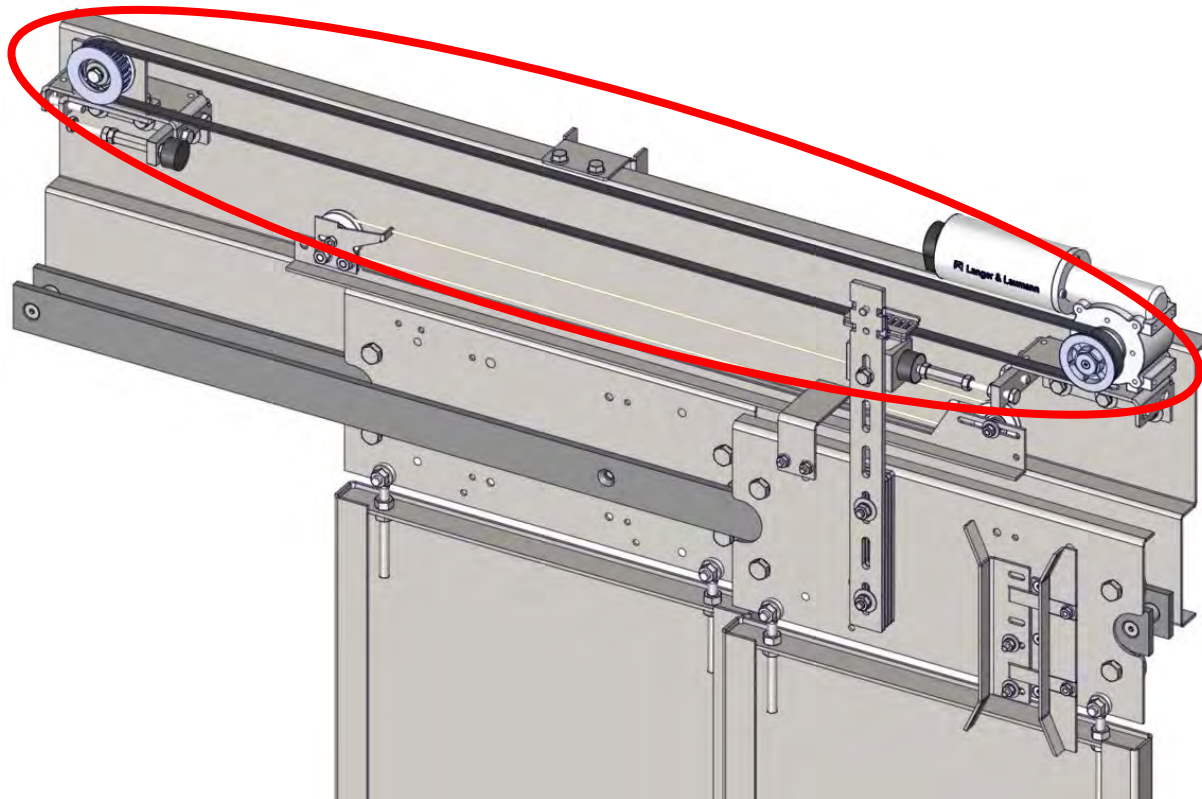


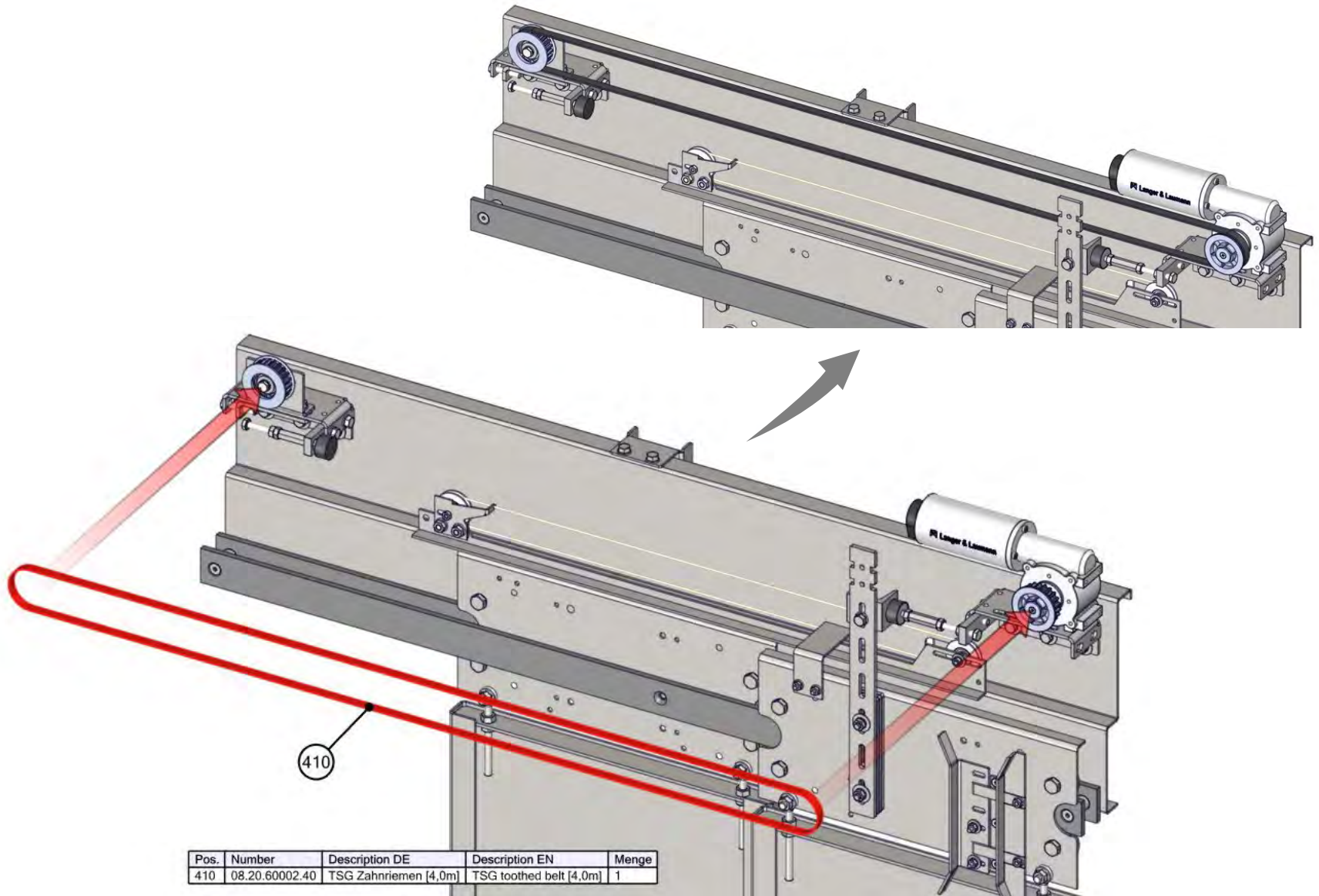


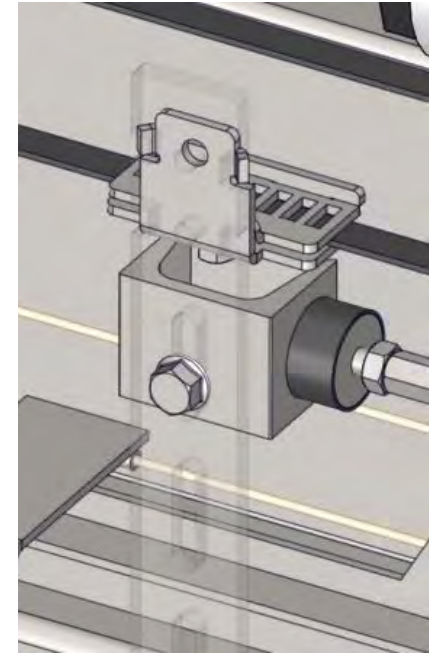
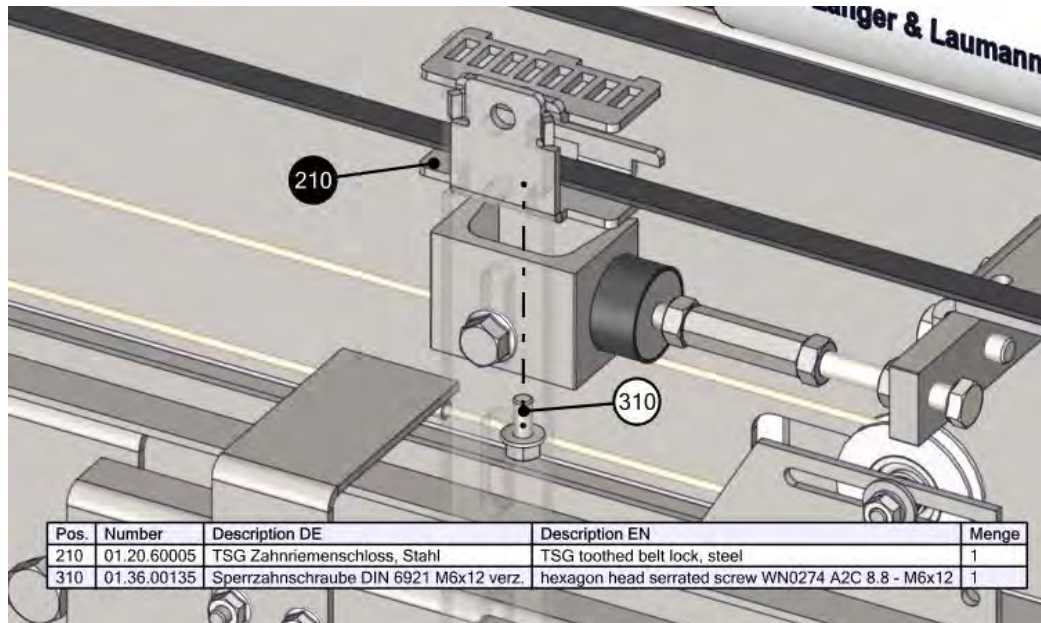


Pos.	Number	Description DE	Description EN	Menge
210	01.20.60110	Spannlasche für Spannstation	Clamping tab for clamping station, normal execution	1
310	01.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	1
320	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2

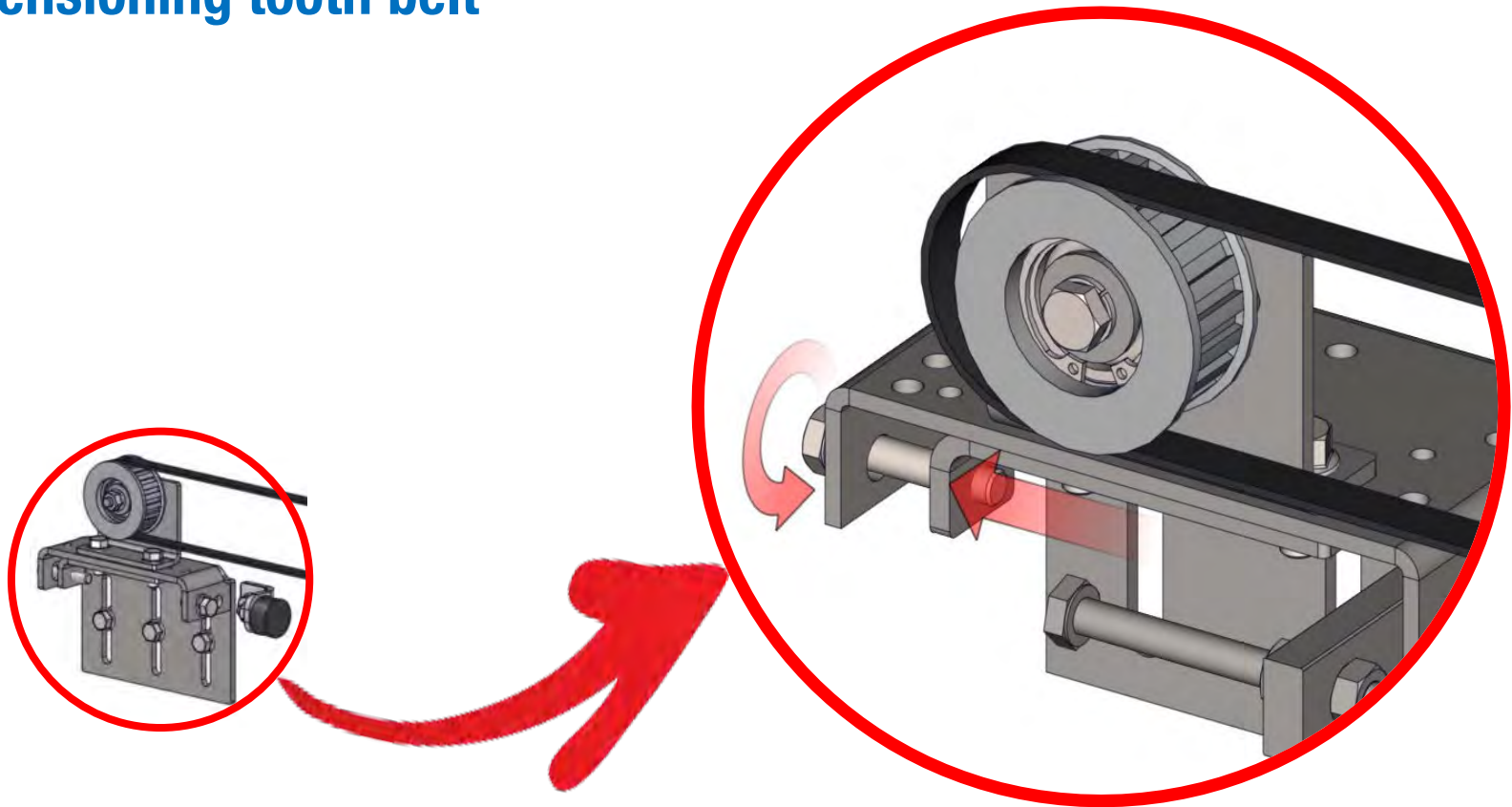
Montage Zahnriemen – assembly of the toothed belt

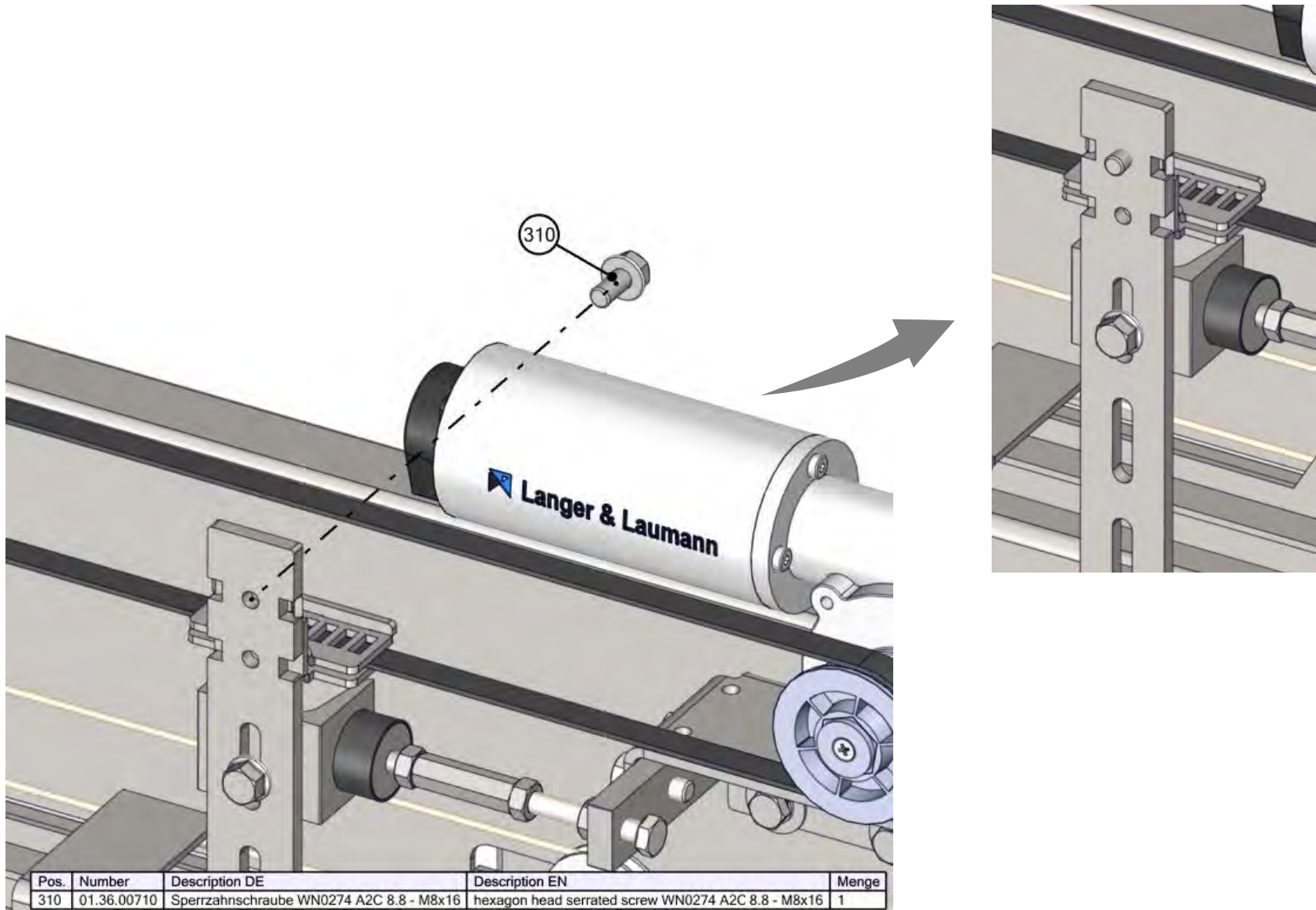


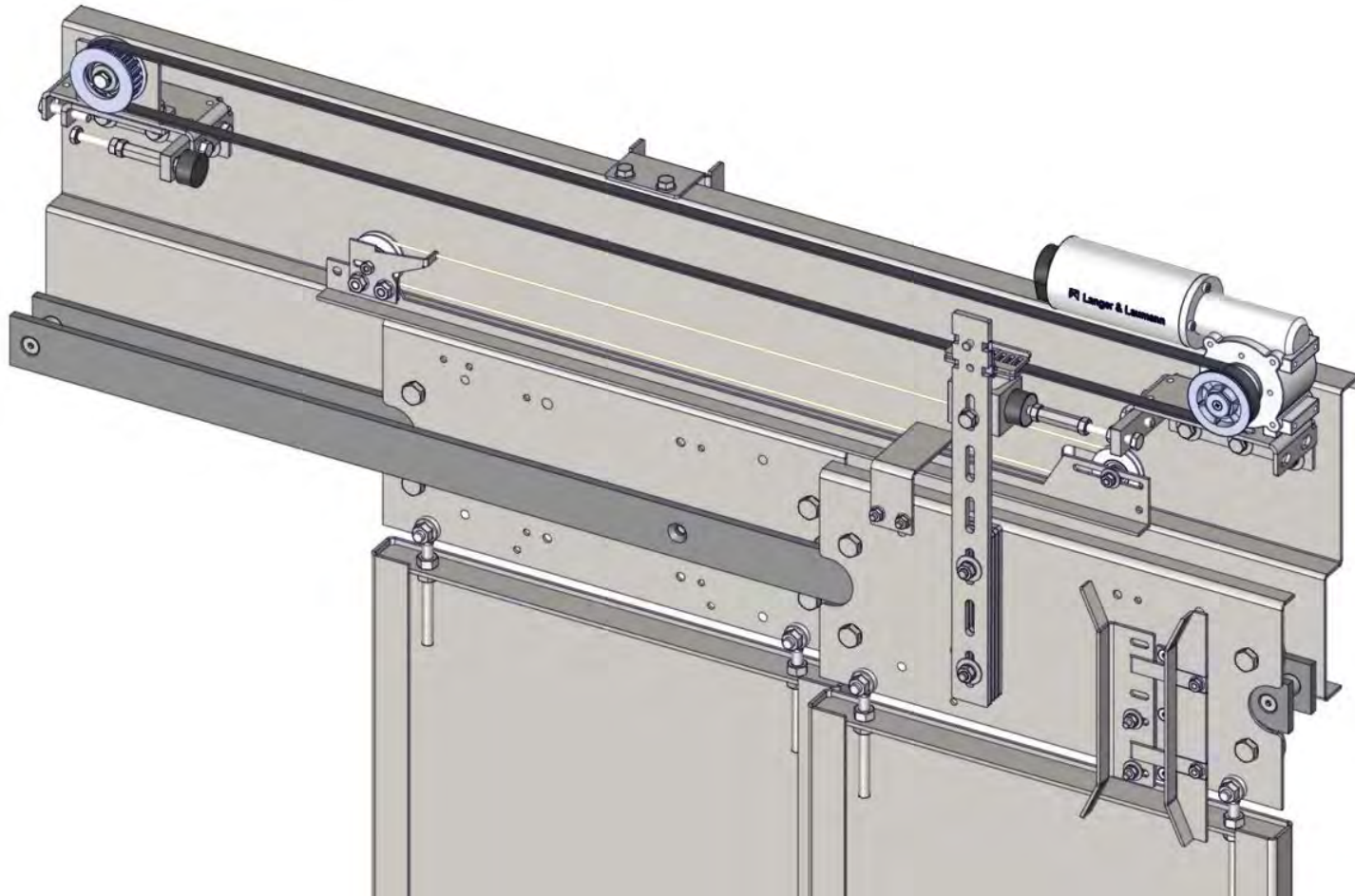




Zahnriemen spannen – tensioning tooth belt

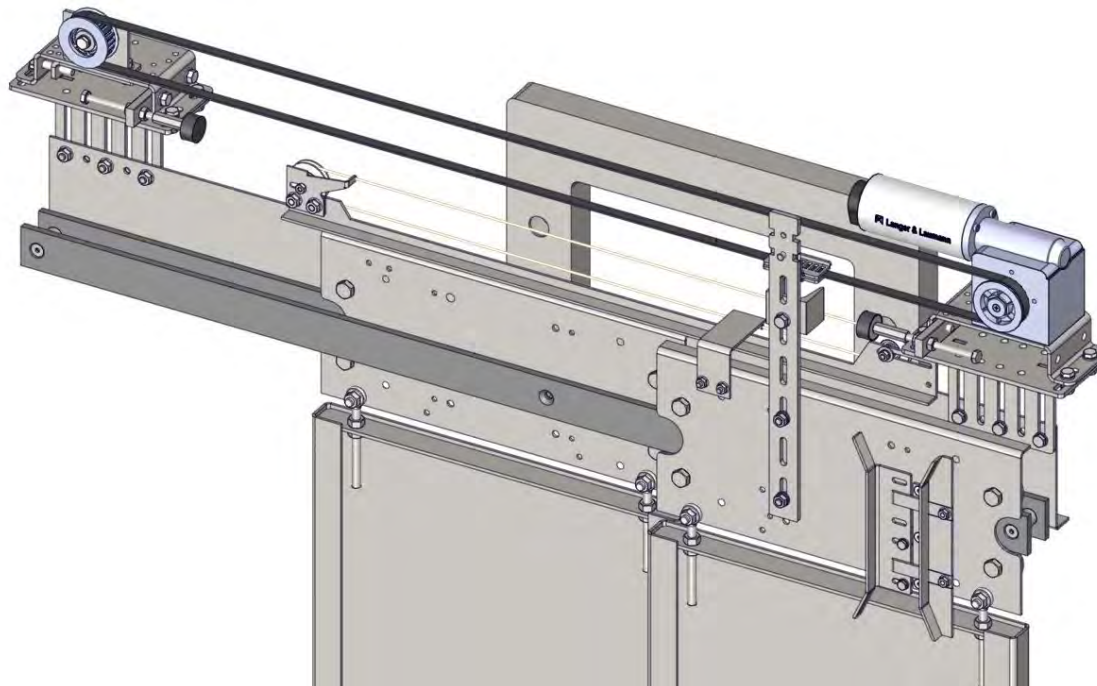






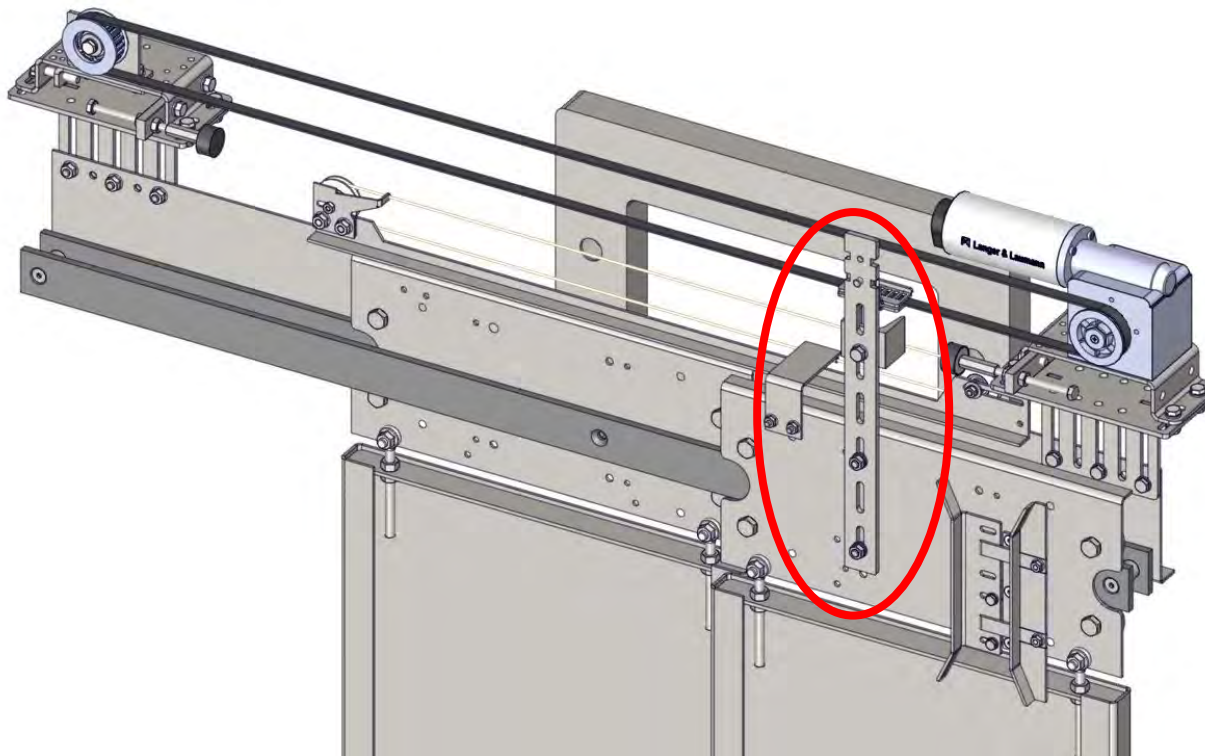
TSG in IGV Sinus – **TSG in IGV Sinus**

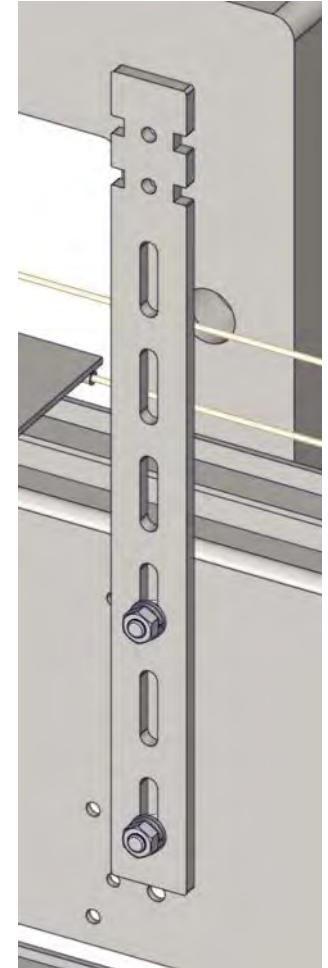
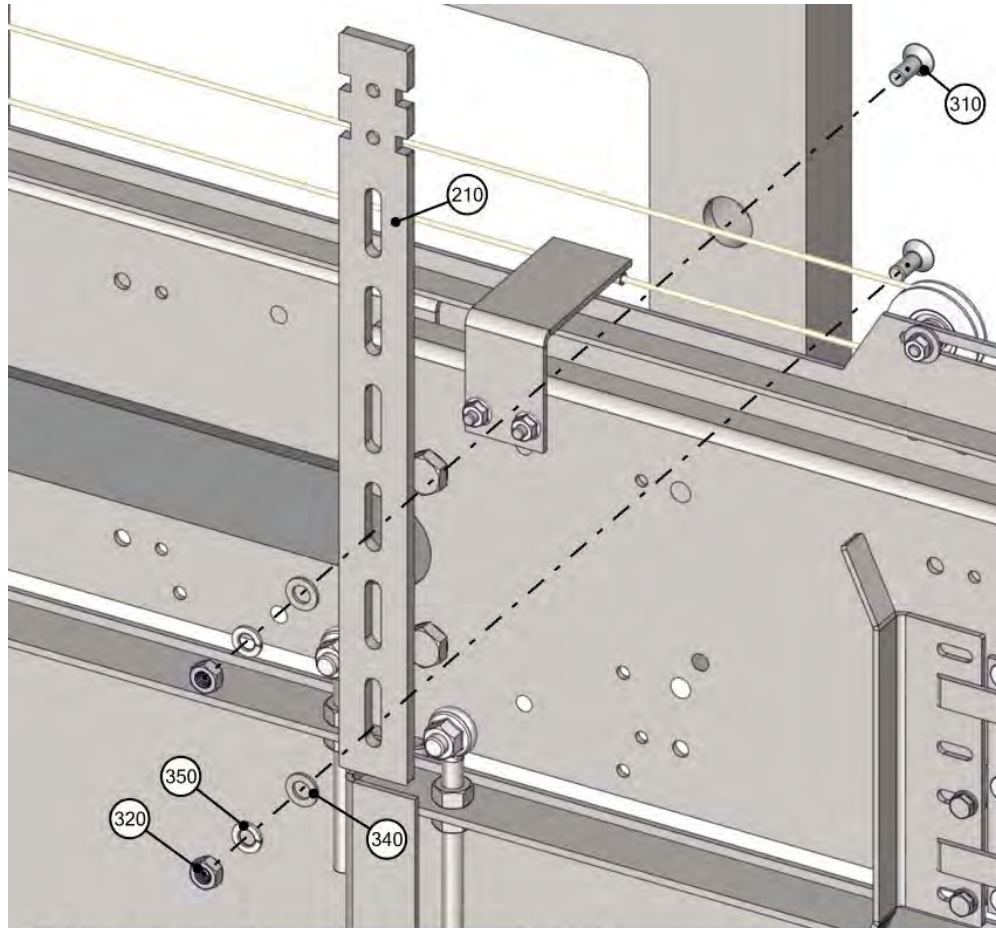
Version mit Traverse –
version with cross beam



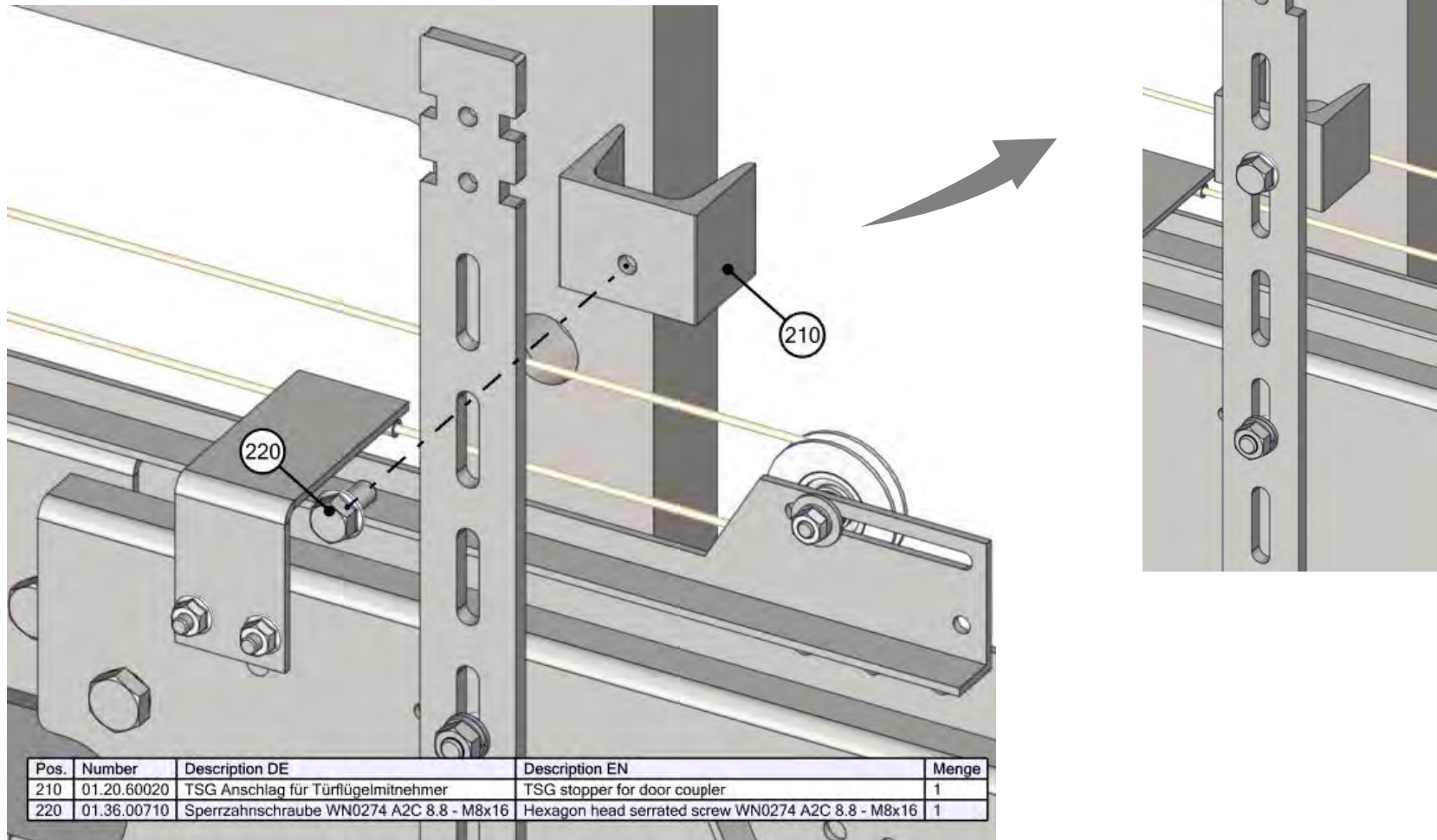
TR spiegelbildlich –
TR mirrored

Montage Türflügelmitnehmer – assembly of the door panel coupler

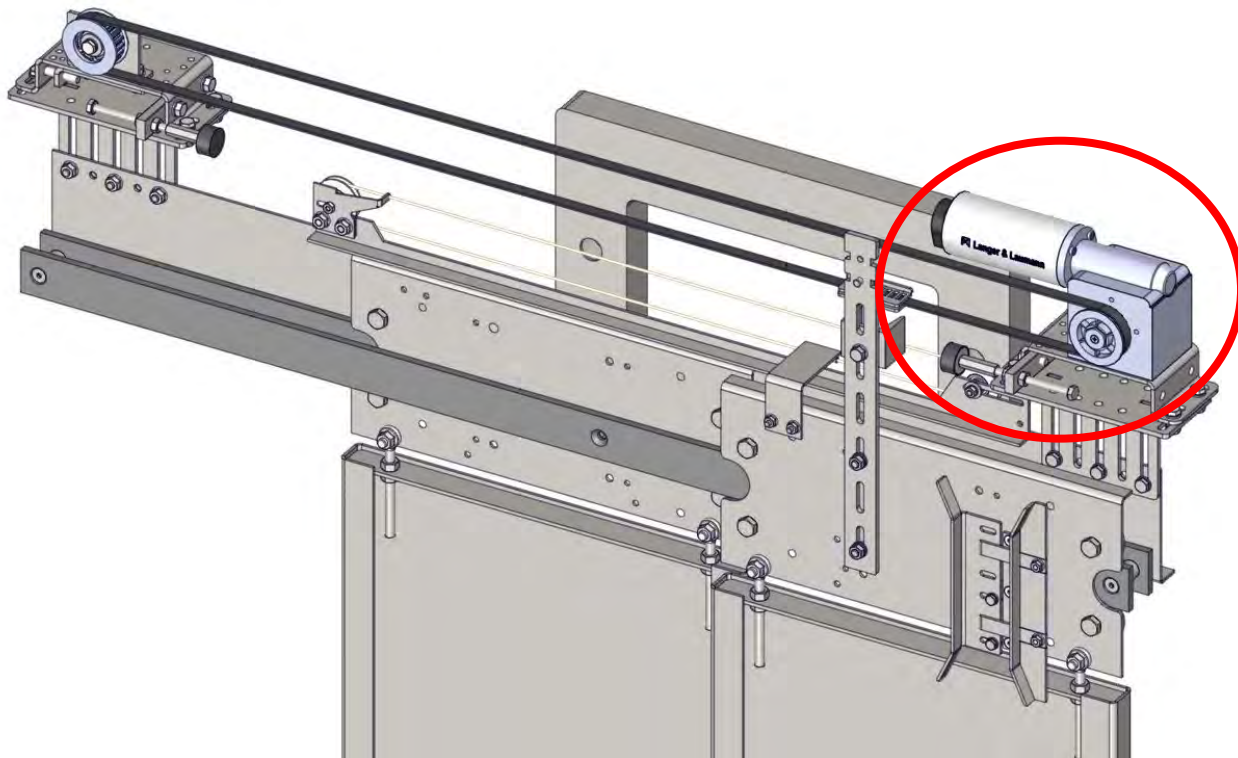


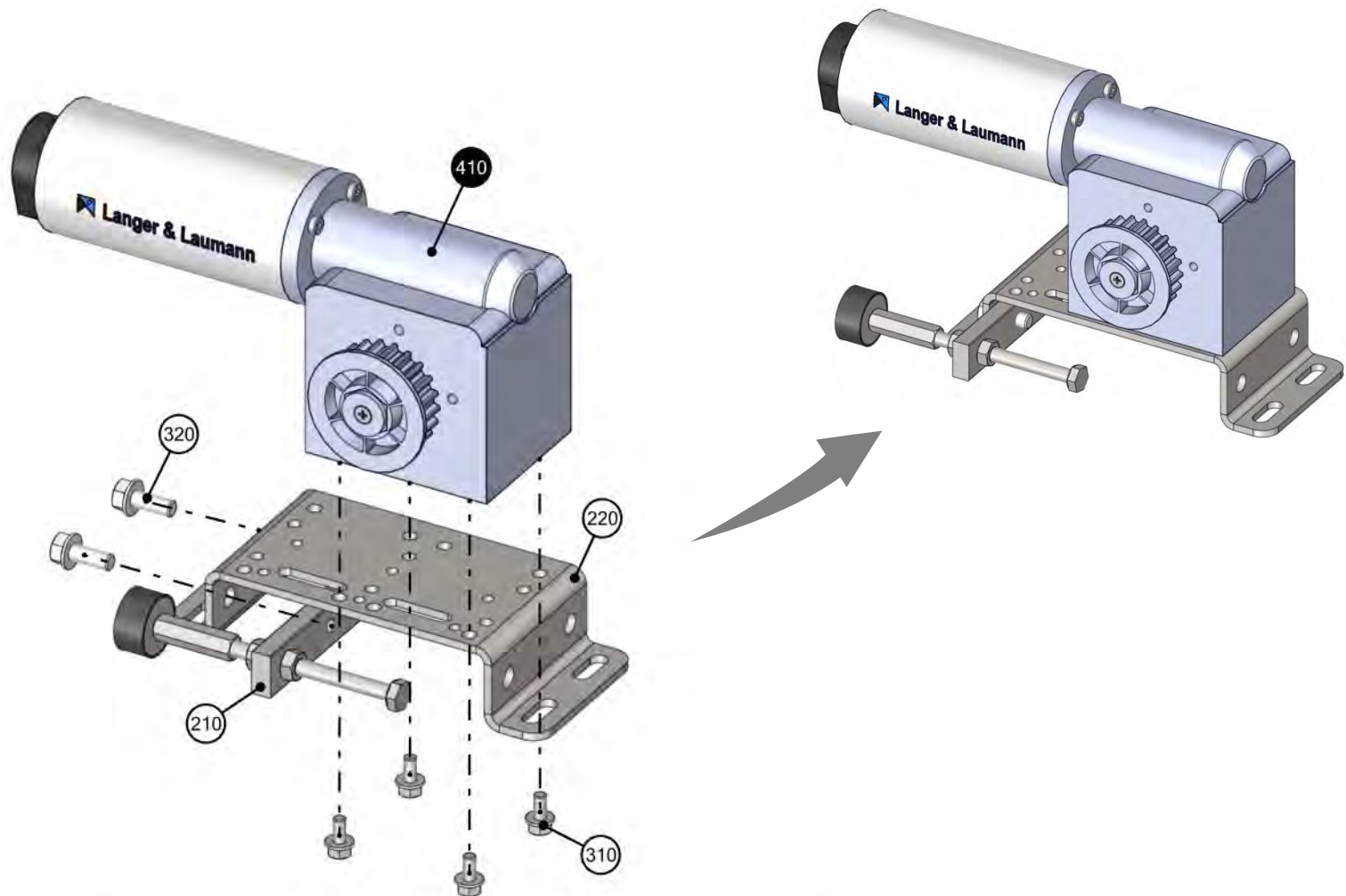


Pos.	Number	Description DE	Description EN	Menge
210	01.20.60004	Türflügelmitnehmer 375x35x6	TSG door panel coupler 375x35x6	1
310	01.36.00380	Senkschraube m.Innensechskant ISO 10642-M8x20-8.8	countersunk head screw w.recessed head DIN7991 vz8.8 - M8x20	2
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8,vz	hexagon nut DIN934-8 vz 8.8 - M8	2
340	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126),vz	washer DIN125A vz - 8,4	2
350	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	2

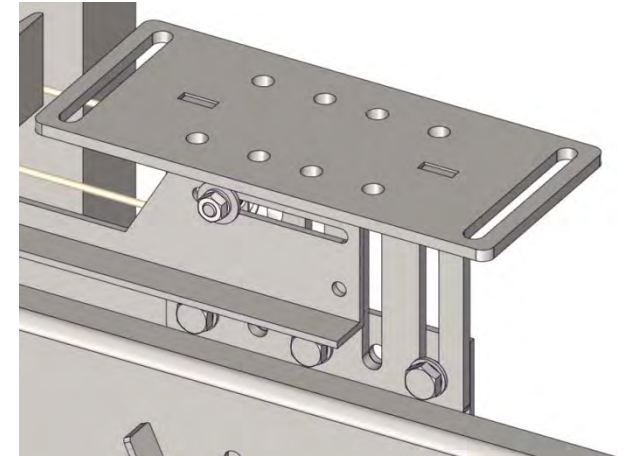
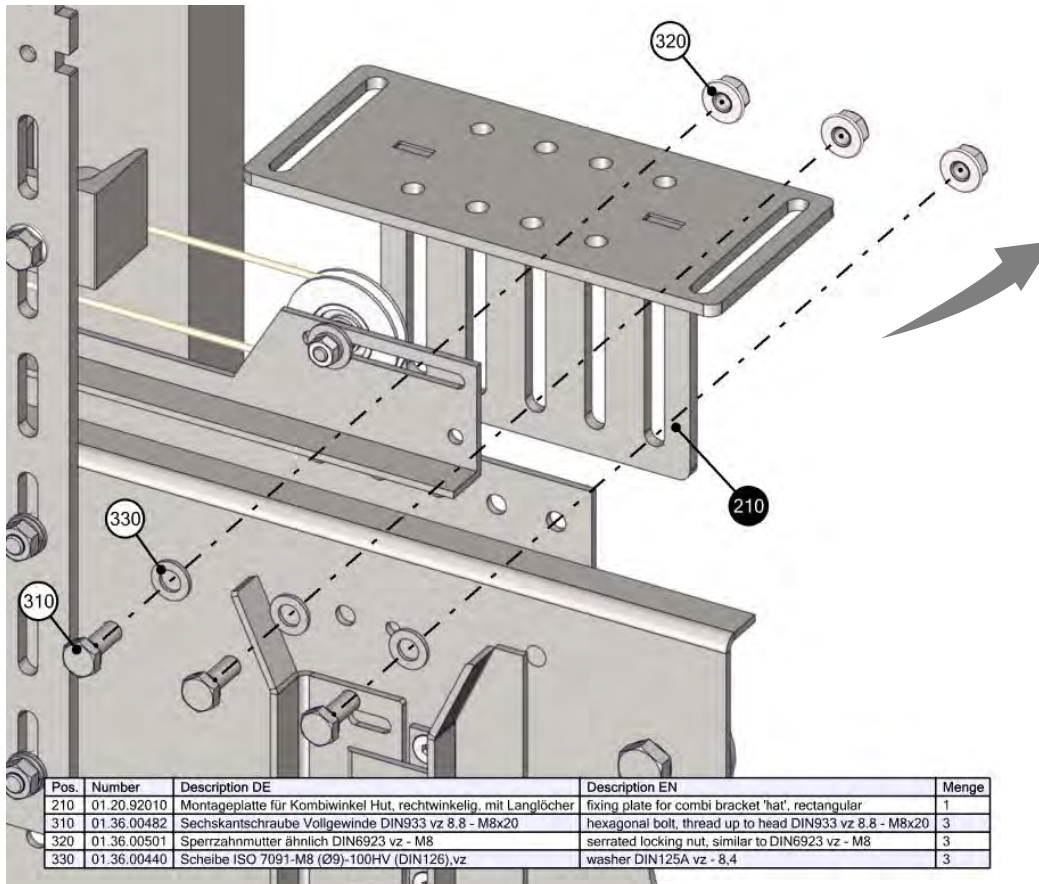


Montage Motor – assembly of the motor

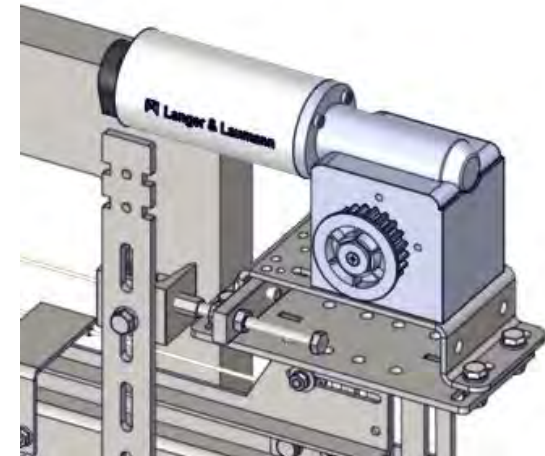
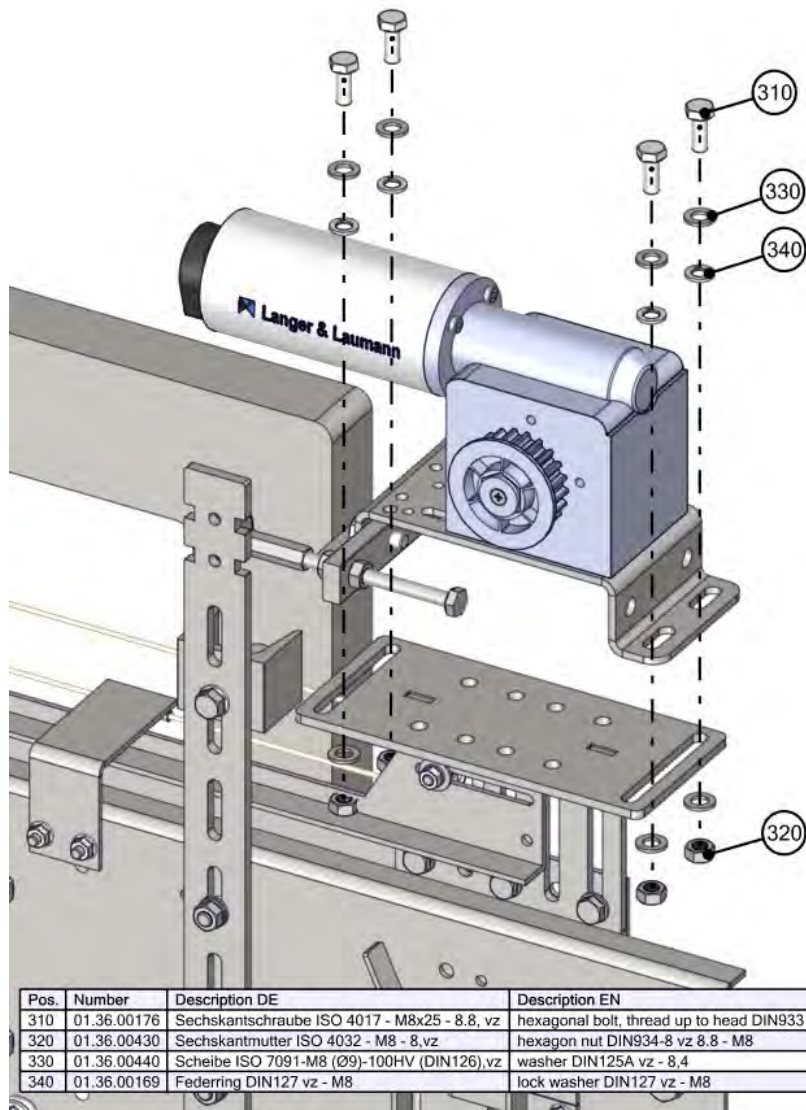




Pos.	Number	Description DE	Description EN	Menge
210	01.20.60060	TSG Kombiwinkel, Ausführung "Hut", für TSG Motor oder Umlenkrad	TSG universal bracket, version "hat"	1
220	01.20.60030	TSG Anschlagsatz Puffer inkl. Halterung	TSG stopper kit buffer incl. holder	1
310	01.36.00135	Sperrzahnschraube DIN 6921 M6x12 verz.	hexagon head serrated screw WN0274 A2C 8.8 - M6x12	4
320	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2
410	08.20.40000.X1	Motor Gross Links & Getriebe, 24V/4,9A/1:15	motor large left & gearbox, 24V/4,9A/1:15	1

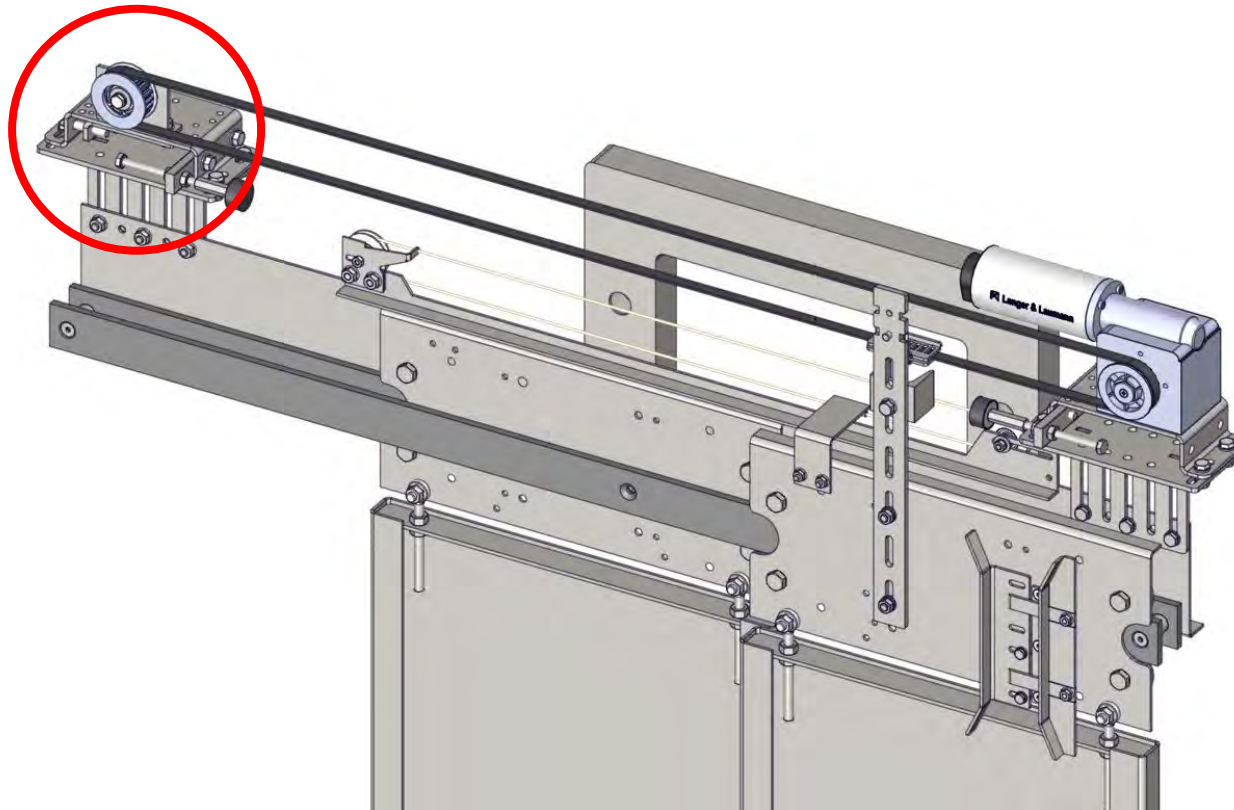


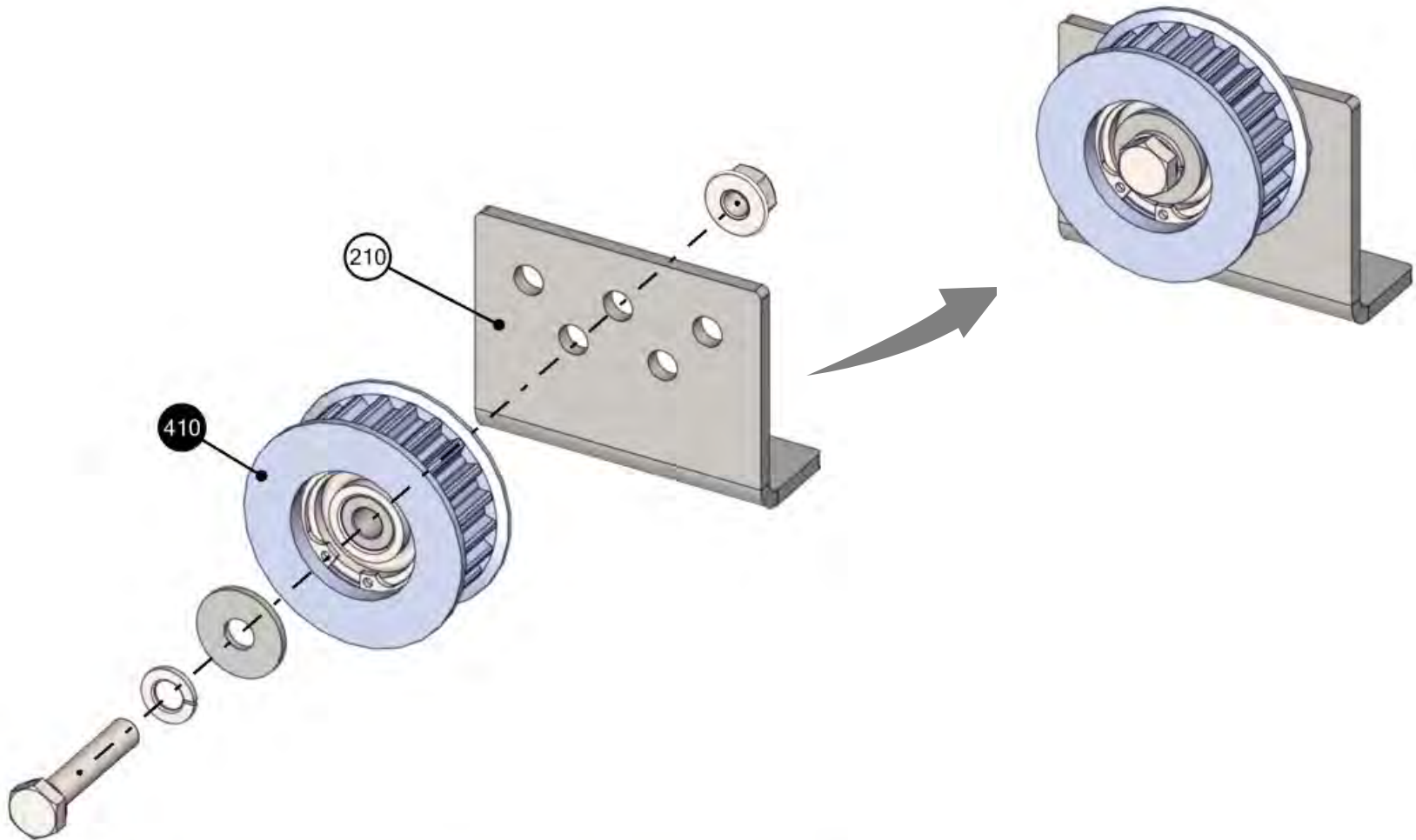
Pos.	Number	Description DE	Description EN	Menge
210	01.20.92010	Montageplatte für Kombiwinkel Hut, rechtwinkelig, mit Langlöcher	fixing plate for combi bracket 'hat', rectangular	1
310	01.36.00482	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x20	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x20	3
320	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	3
330	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN125),vz	washer DIN125A vz - 8,4	3



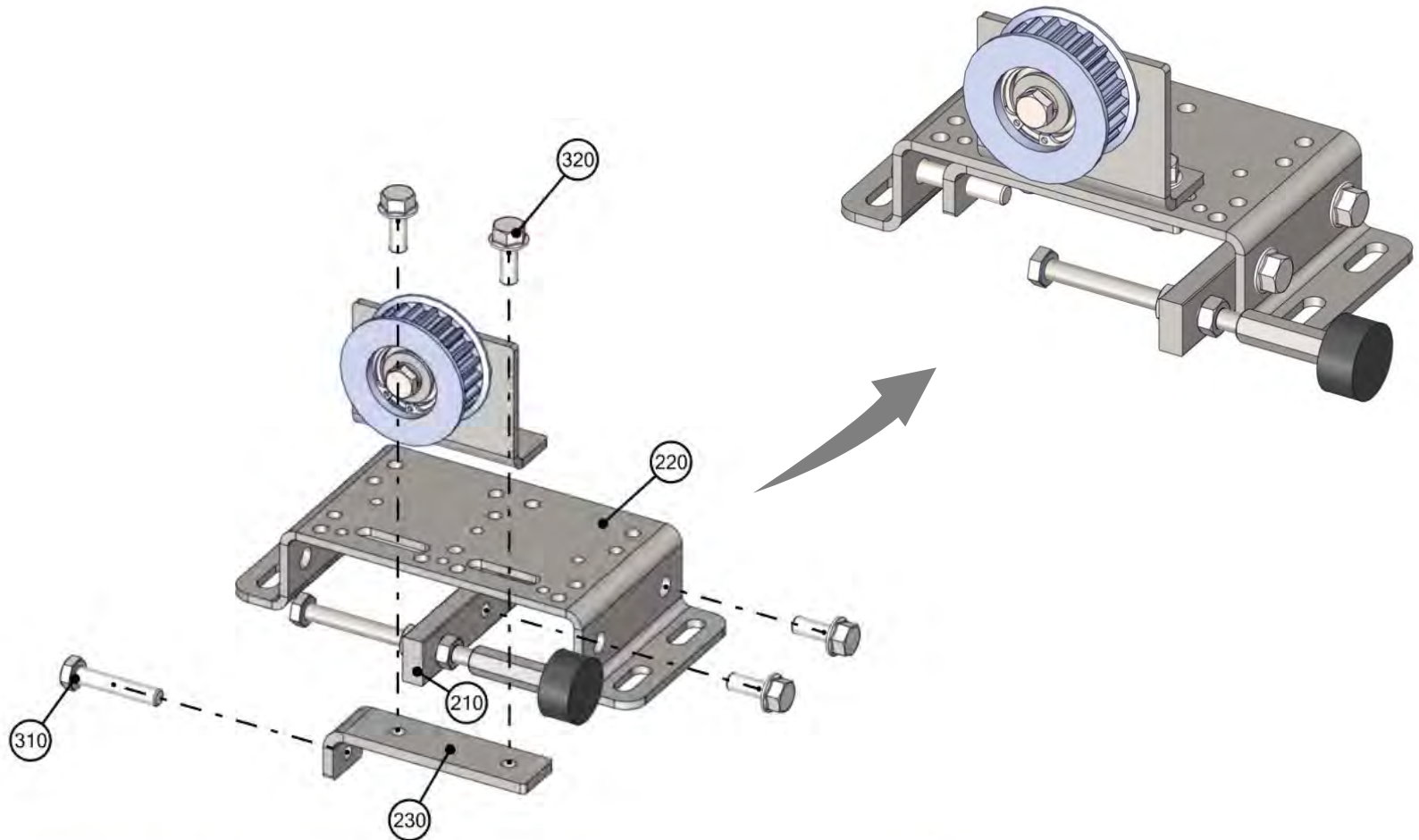
Pos.	Number	Description DE	Description EN	Menge
310	01.36.00176	Sechskantschraube ISO 4017 - M8x25 - 8.8, vz	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x25	4
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8,vz	hexagon nut DIN934-8 vz 8.8 - M8	4
330	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126),vz	washer DIN125A vz - 8,4	8
340	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	4

Montage Umlenkrolle – assembly of the counter roller

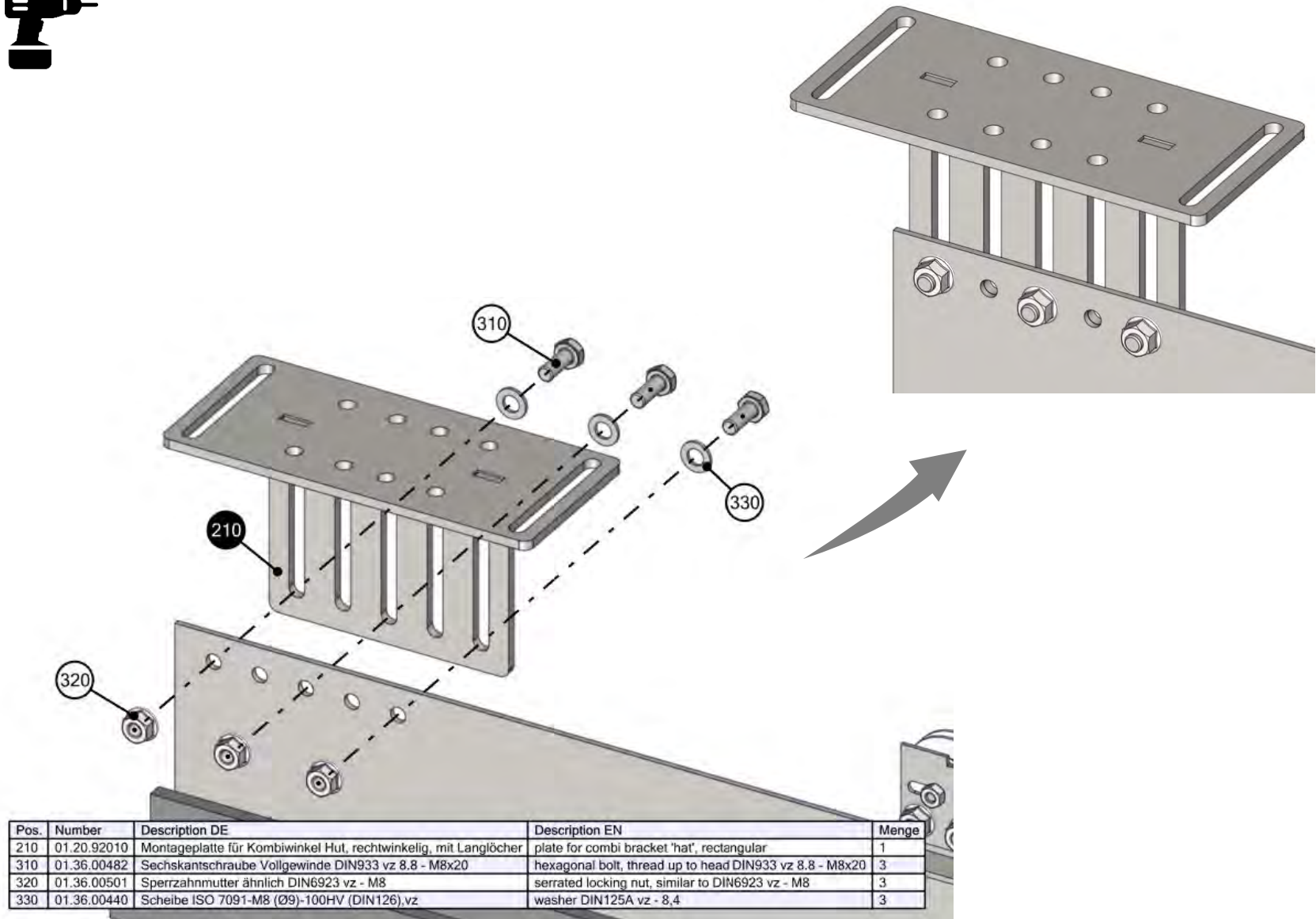


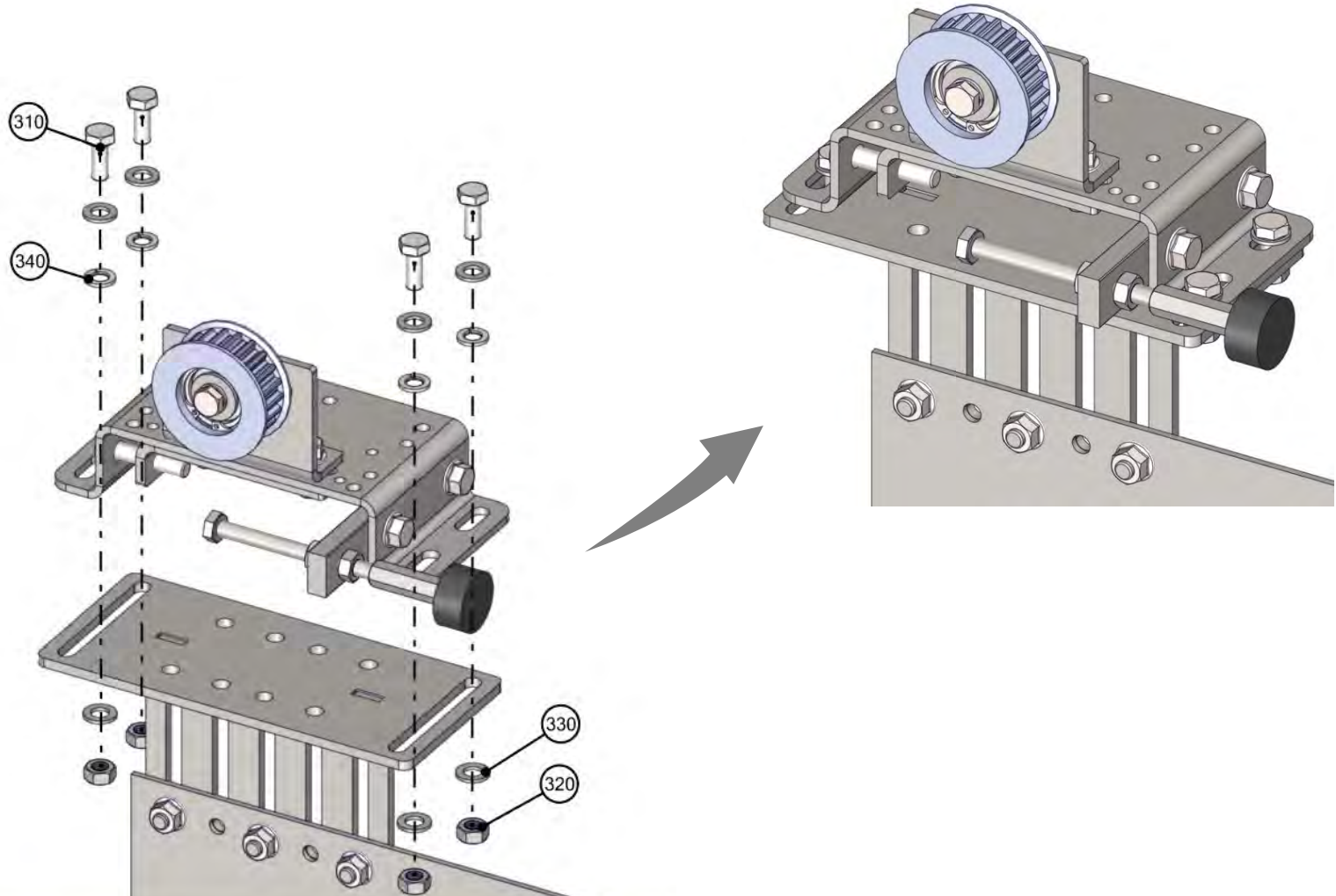


Pos.	Number	Description DE	Description EN	Menge
210	01.20.60013	Halterung Umlenkrolle für Spannstation	TSG bracket for counter roller	1
410	01.20.60003	TSG Umlenkrad	TSG counter roller	1



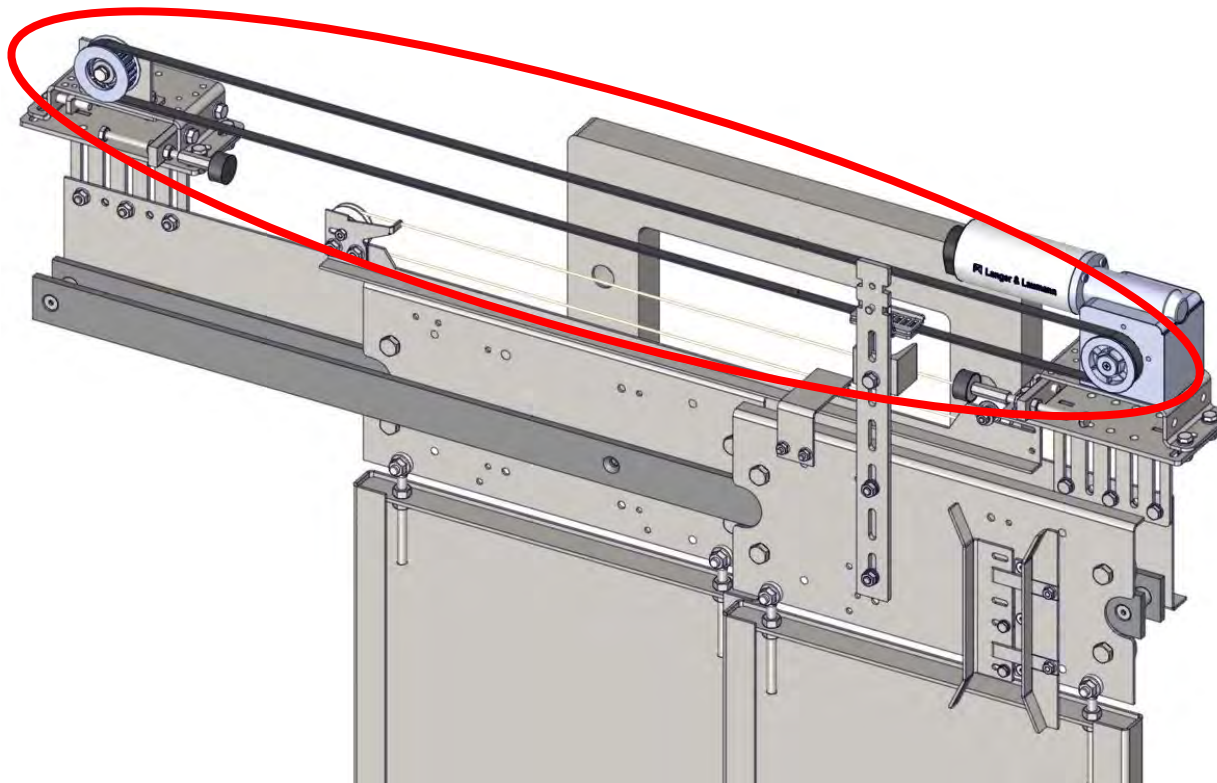
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60030	TSG Anschlagsatz Puffer inkl. Halterung	TSG stopper kit buffer incl. holder	1
220	01.20.60060	TSG Kombiwinkel, Ausführung "Hut", für TSG Motor oder Umlenkrolle	TSG universal bracket, version "hat"	1
230	01.20.60110	Spannlasche für Spannstation	clamping tab for clamping station, normal execution	1
310	01.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	1
320	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4

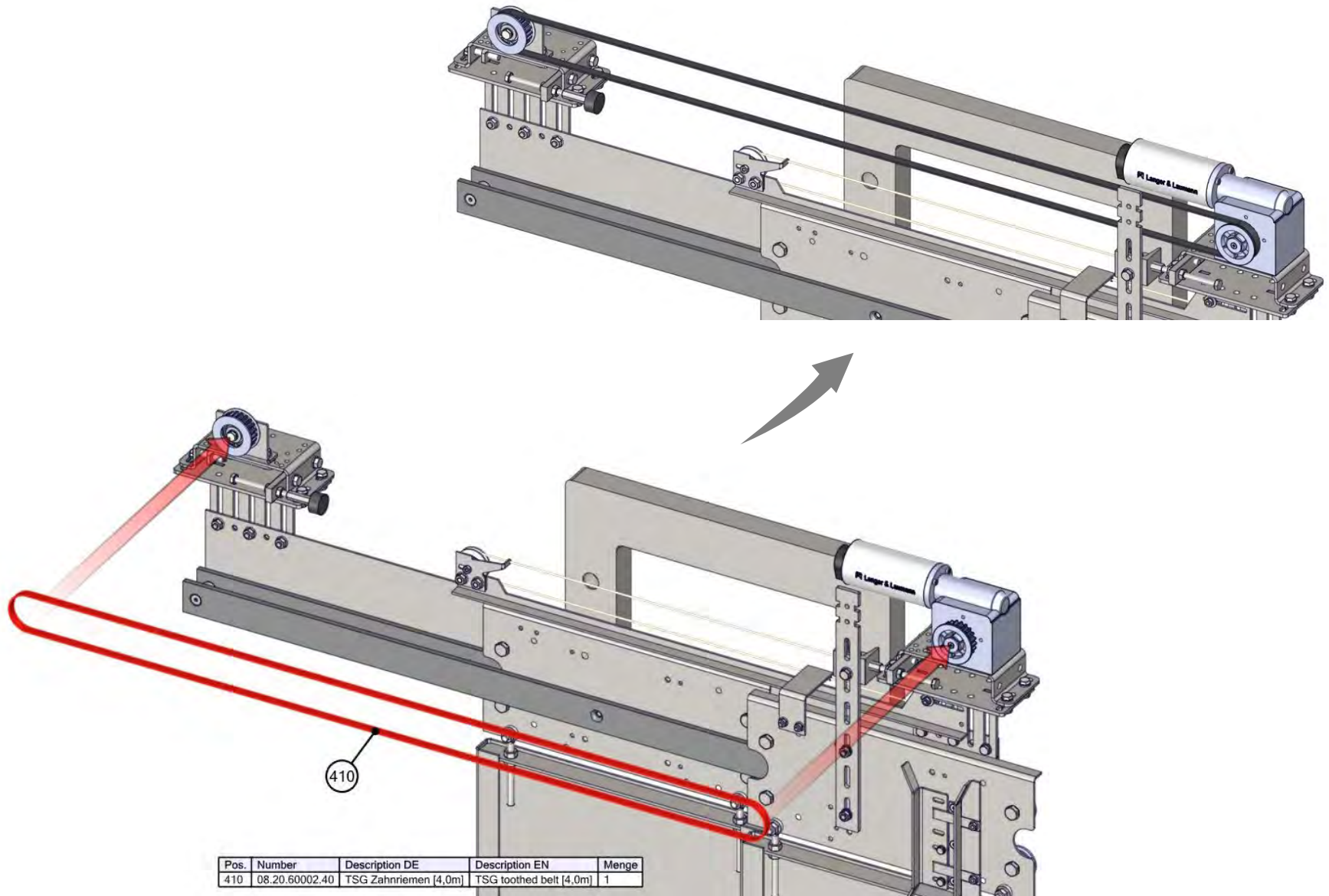


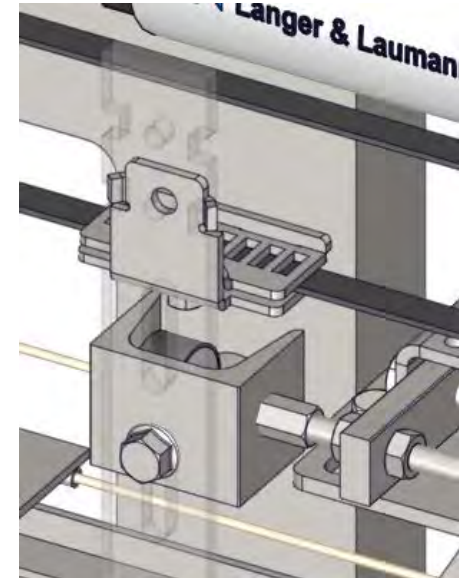
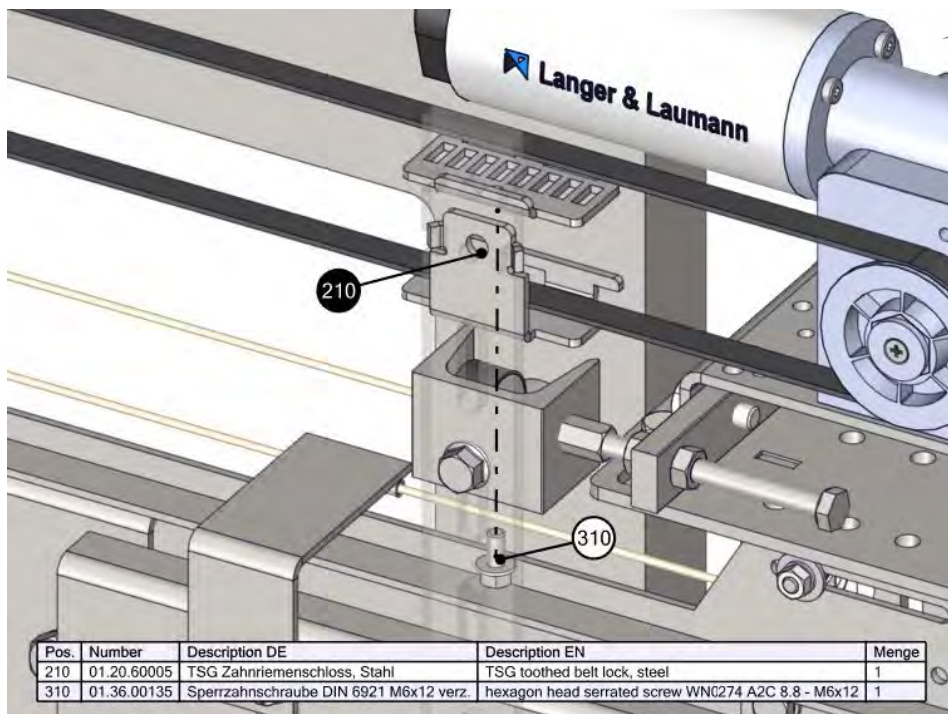


Pos.	Number	Description DE	Description EN	Menge
310	01.36.00176	Sechskantschraube ISO 4017 - M8x25 - 8.8, vz	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x25	4
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8, vz	hexagon nut DIN934-8 vz 8.8 - M8	4
330	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126), vz	washer DIN125A vz - 8,4	8
340	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	4

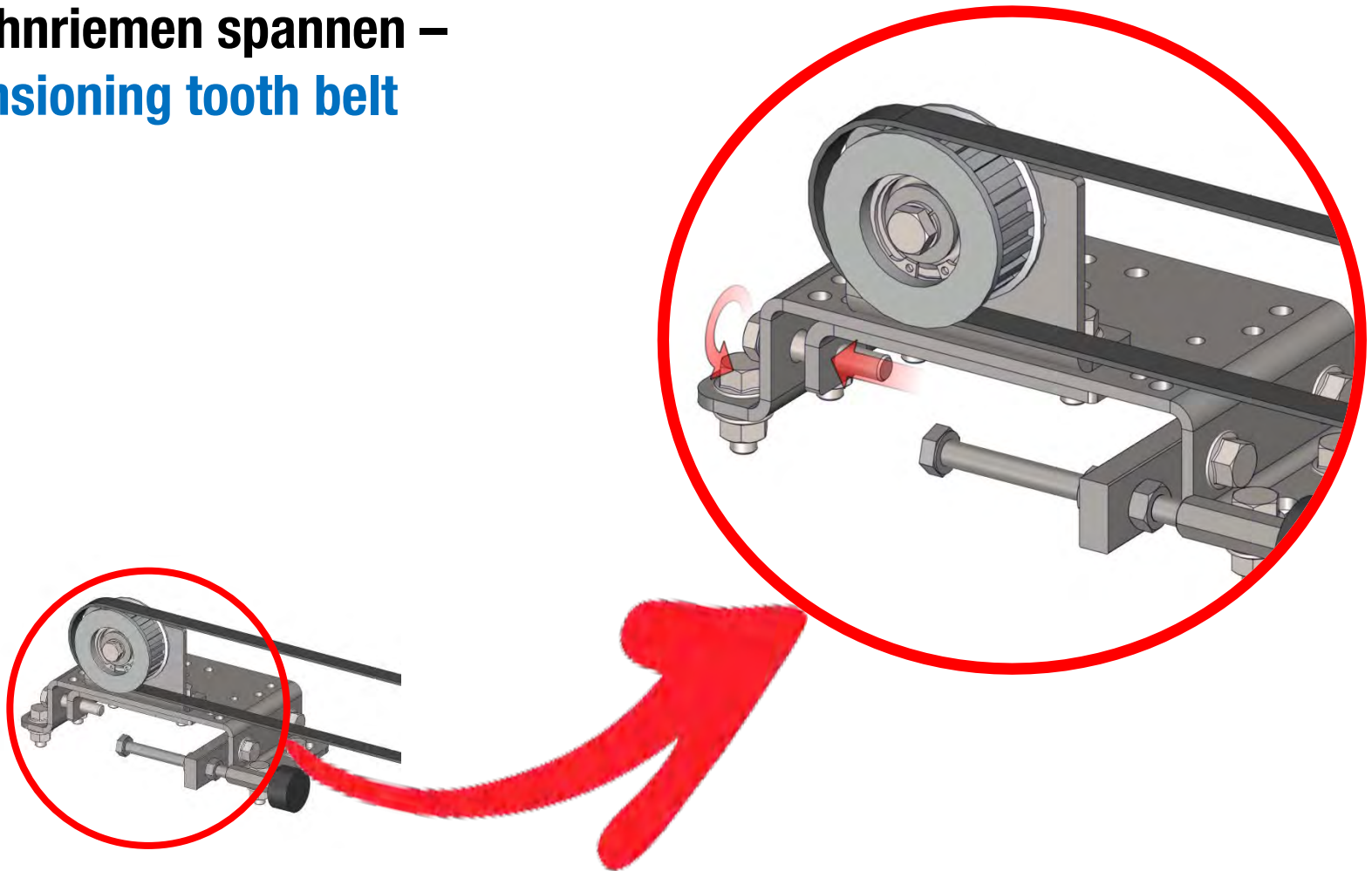
Montage Zahnriemen – assembly of the toothed belt

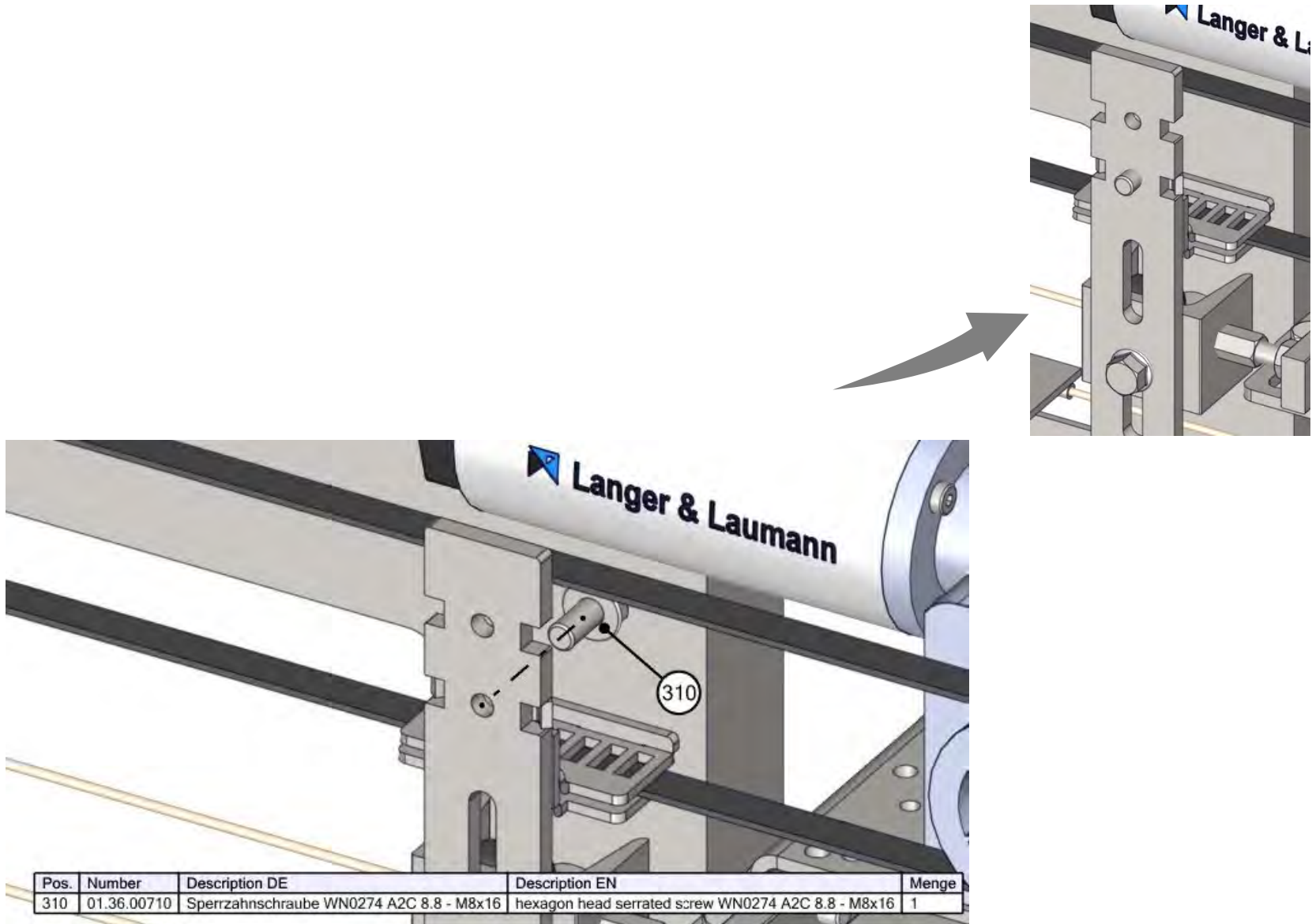


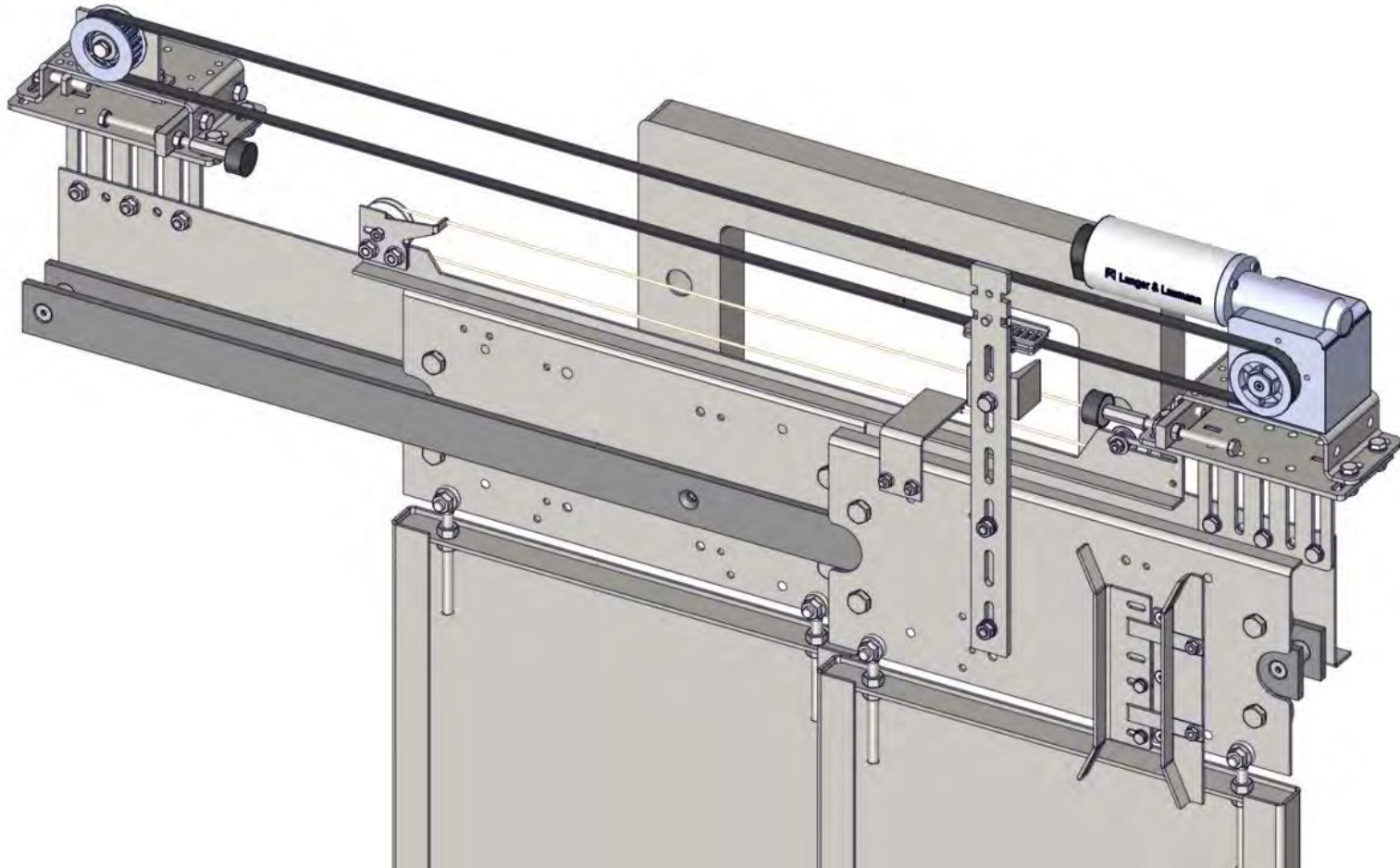


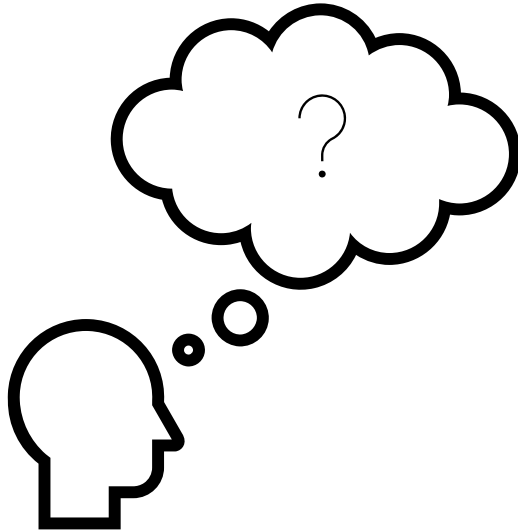


Zahnriemen spannen – tensioning tooth belt









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