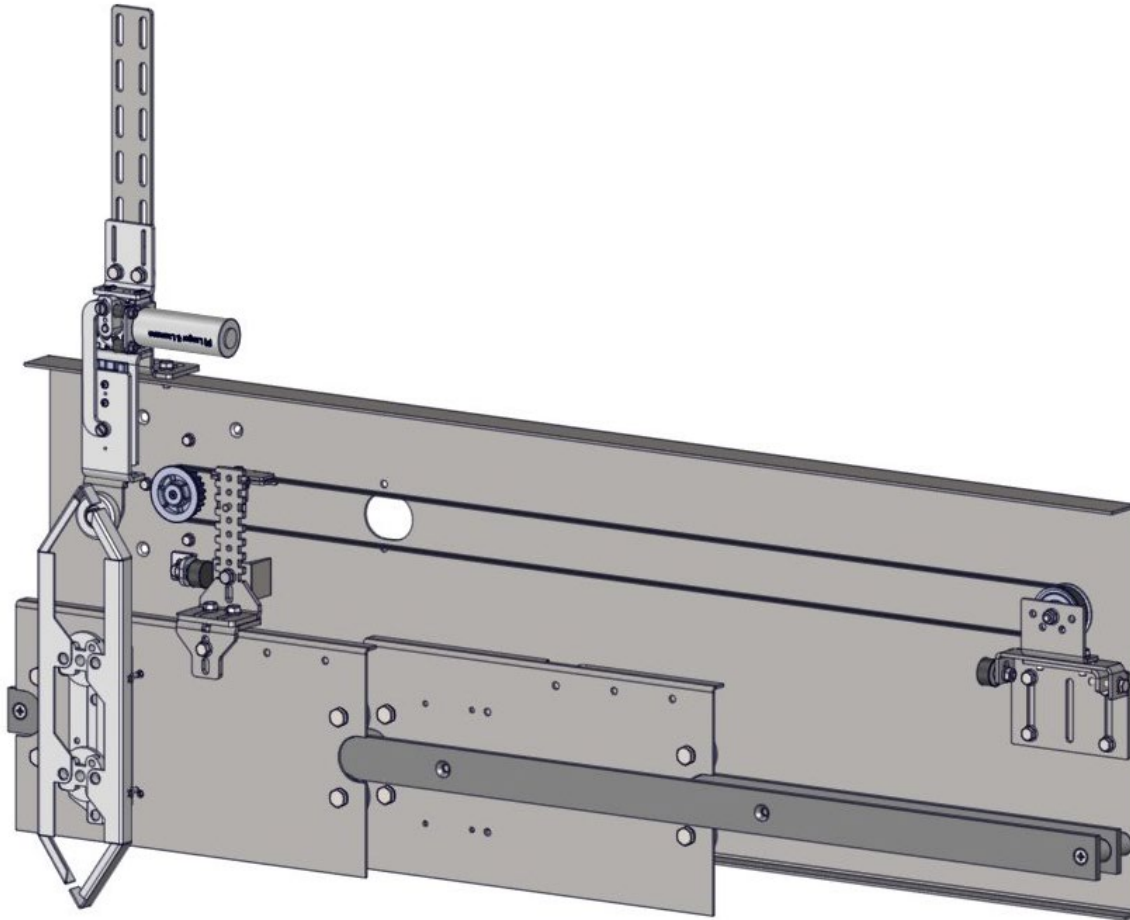


Montageanleitung **Assembly Instruction**

TSG in Monitor Forsid Europa **TSG in Monitor Forsid Europe**

TSG in Monitor Forsid Europa – **TSG in Monitor Forsid Europe**



Lieferumfang – scope of supply



picture	Number	description DE	description EN	quantity
	8.20.00131.04	TSG V4 Lift Door Operator -Electronic extern- 230[VAC]/50-60[Hz]	TSG V4 Lift Door Operator -Electronic extern- 230[VAC]/50-60	1
	8.20.4000x.K1	Motor Gross Rechts/Links & Getriebe, ohne Zahnrad, 24V/5,1A/1:15	Motor Large Right/Left & Gearbox, without wheel, 24V/5,1A/1:15	1
	1.20.60003	TSG Umlenkrad	TSG counter roller	1
	1.20.60075	Rechtwinkliges Verbindungsblech TSG Mitnehmer, mit Langlöcher	right-angled connecting plate TSG driver	1
	1.20.92020	TSG Türflügelmitnehmer, rechtwinklig, mit Langlöcher	TSG door panel coupler, rectangular, with oblong holes	1
	1.20.60020	TSG Anschlag für Türflügelmitnehmer	TSG stopper for door coupler	1
	1.20.60160	Zahnriemenrad, STD8M, d=14H7, D=56[mm], B=15[mm], mit Nut mit 1 Bordscheibe	timing belt pulley, STD8M, d=14H7, D=56[mm], B=15[mm], with keyway, with 1 disk	1
	1.20.60013	TSG Halter für Umlenkrad	TSG bracket for counter roller	1

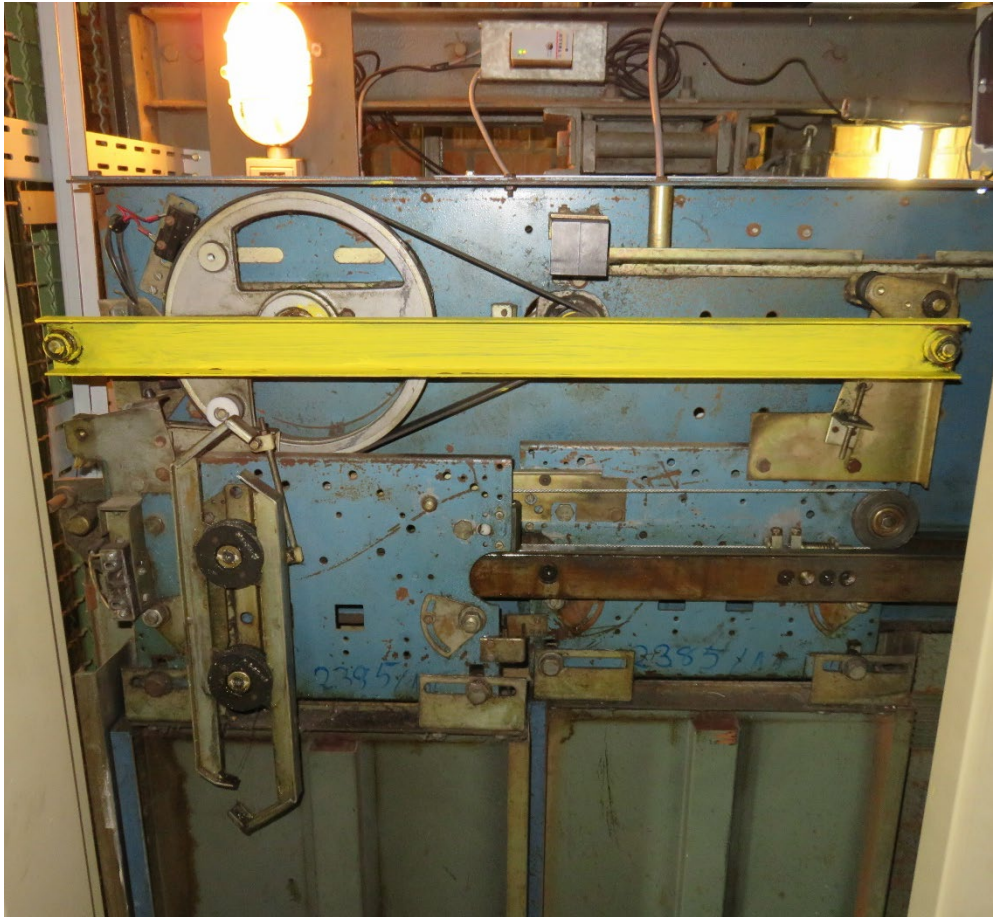
picture	Number	description DE	description EN	quantity
	1.20.60070	TSG Kombiwinkel Gegenseite, schmale Bauform (Tiefe=35mm)	TSG universal bracket counter side, slim design (35mm)	1
	1.20.60110	Spannlasche für Spannstation, normale Ausführung	clamping tab for clamping station, normal execution	1
	1.20.60005	TSG Zahnriemenschloß, Stahl	TSG toothed belt lock, steel	1
	1.20.91120	Gummipuffer D30x15, Gewindebolzen M8x20, 75 Shore	rubber-metal bump stop D30x15, threaded stud M8x20, 75 Shore	2
	1.20.59070	Halterung Puffer für M3TK	rectangular stop for M3TK	1
	1.20.94080	Rollenhalter für TSG Sinusantrieb	roller holder for Sinus Drive	1
	8.20.83112	TSG Sinusantrieb rechts für Riegelbetätigung (ohne TSG Elektronik)	TSG Sinus Drive right for interlock operation (without TSG electronic)	1
	1.20.41010	Rad mit Kugellager, gespritztem Polyurethan, D=50[mm], für M10	wheel with ball bearing, injected polyurethane, D=50[mm], M10	1
	1.20.41020	Gleitlager für Rad mit Kugellager, d1:8mm / d2: 10mm / Breite: 10mm	slide bearing with wheel	1

picture	Number	description DE	description EN	quantity
	1.20.94100	Winkel zur Befestigung an Türmaschine für TSG Sinusantrieb	bracket for mounting at door machine for TSG Sinus Drive	1
	1.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	14
	1.36.00501	Sperrzahnmutter, ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	16
	1.36.00710	Sperrzahnschraube WN0274 A2C 8.8 - M8x16	hexagon head serrated screw WN0274 A2C 8.8 - M8x16	2
	1.36.00358	Senkkopfschraube mit Innensechskant DIN7991 vz 8.8 - M6x12	countersunk head screw w.recessed head DIN7991 vz8.8 - M6x12	4
	1.36.00140	Sperrzahnschraube WN0274 A2C 8.8 - M8x12	hexagon head serrated screw WN0274 A2C 8.8 - M8x12	4
	1.36.00336	Senkkopfschraube mit Kreuzschlitz DIN965 vz 4.8 - M4x12	countersunk screw w. cross recess DIN965 vz 4.8 - M4x12	1
	1.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	2
	1.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	3

picture	Number	description DE	description EN	quantity
	1.36.00450	Kotflügelscheibe DIN522 vz - 8,4x20x1,25	wing repair washer DIN522 vz - 8,4x20x1,25	1
	1.36.00135	Sperrzahnschraube WN0274 A2C 8.8 - M6x12	hexagon head serrated screw WN0274 A2C 8.8 - M6x12	3
	1.36.00440	Scheibe DIN125A vz - 8,4	washer DIN125A vz - 8,4	5
	1.36.00730	Sperrzahnschraube WN0274 A2C 8.8 - M8x30	hexagon head serrated screw WN0274 A2C 8.8 - M8x30	1
	1.36.00429	Sechskantmutter DIN439 niedrige Form vz 8.8 - M8	hexagon nut DIN439 low profile, vz 8.8 - M8	2
	8.20.60002.40	TSG Zahnriemen [4,0m]	TSG toothed belt [4,0m]	1

Vor Umbau – Before conversion

TR



TL spiegelbildlich –
TL mirrored

Nach Demontage – After disassembly

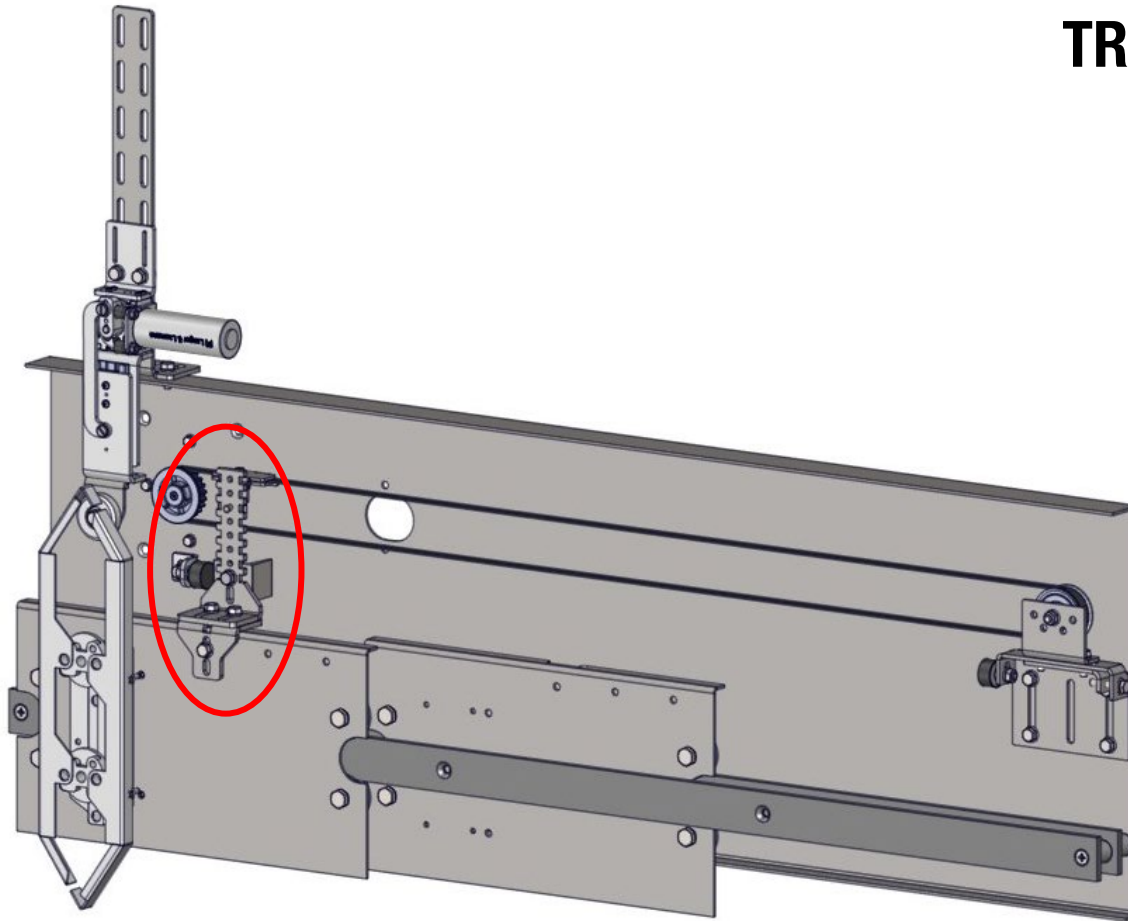
TR



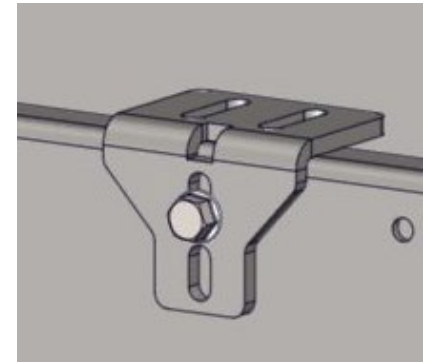
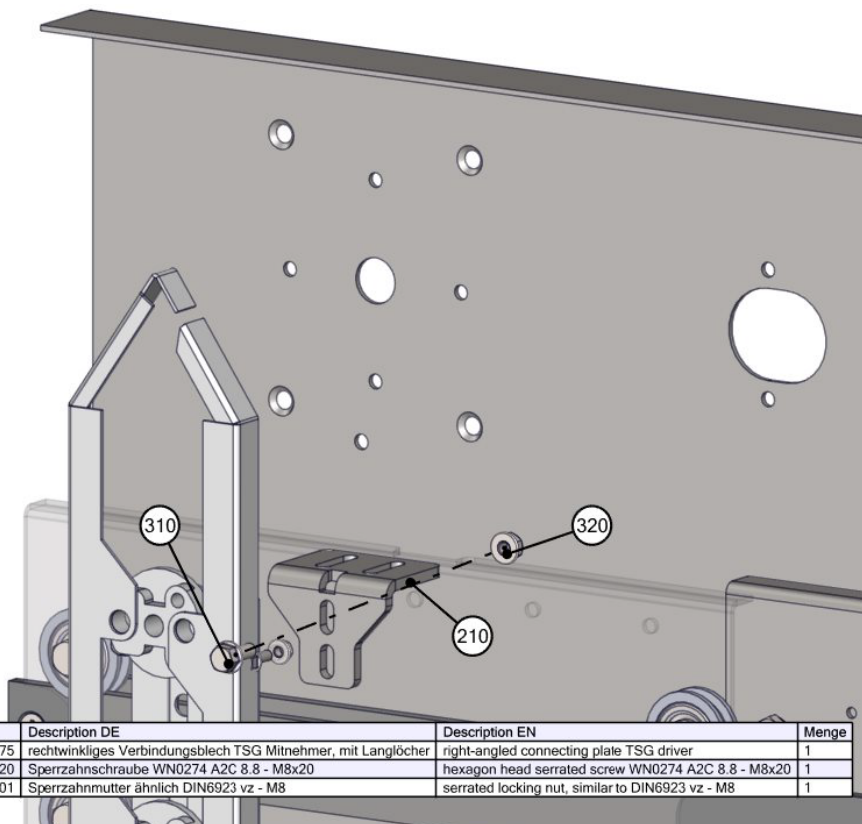
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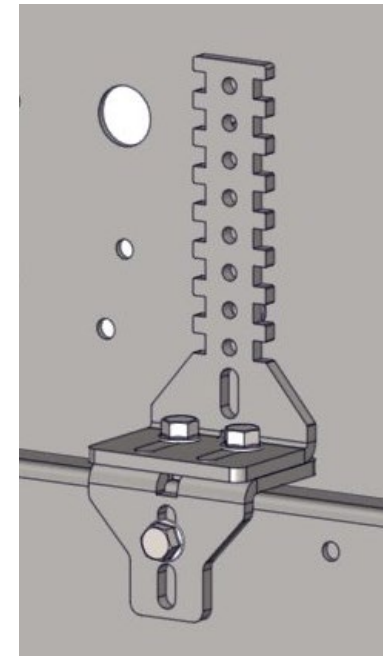
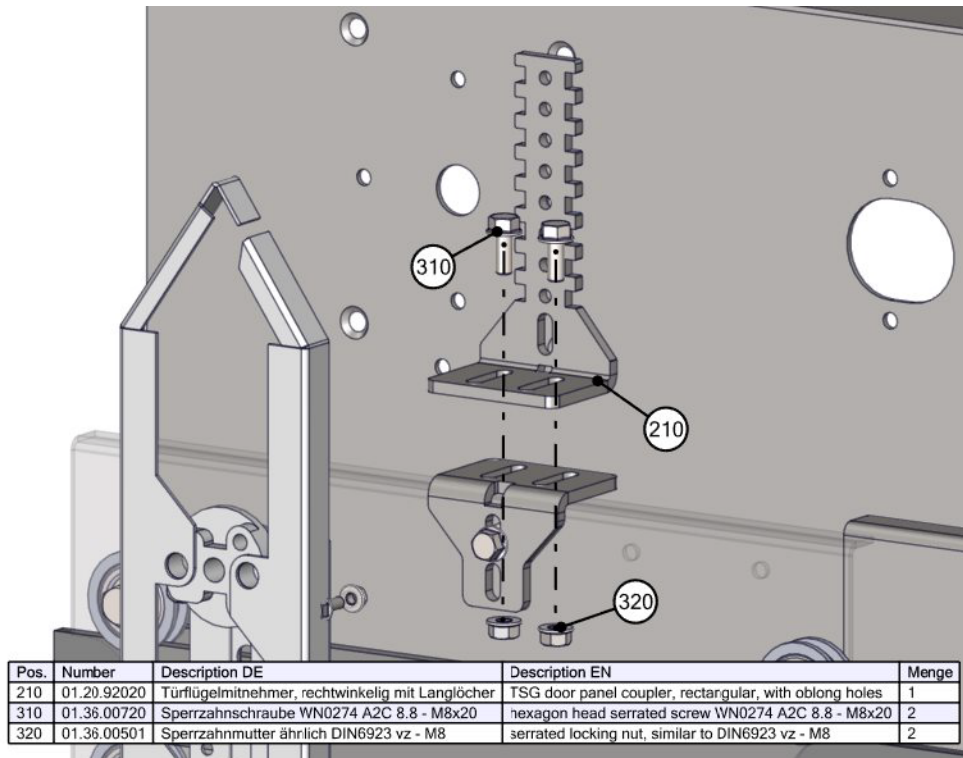
Montage Türflügelmitnehmer – assembly of the door panel coupler

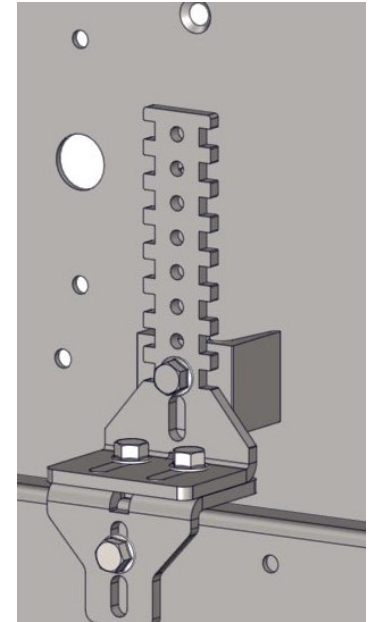
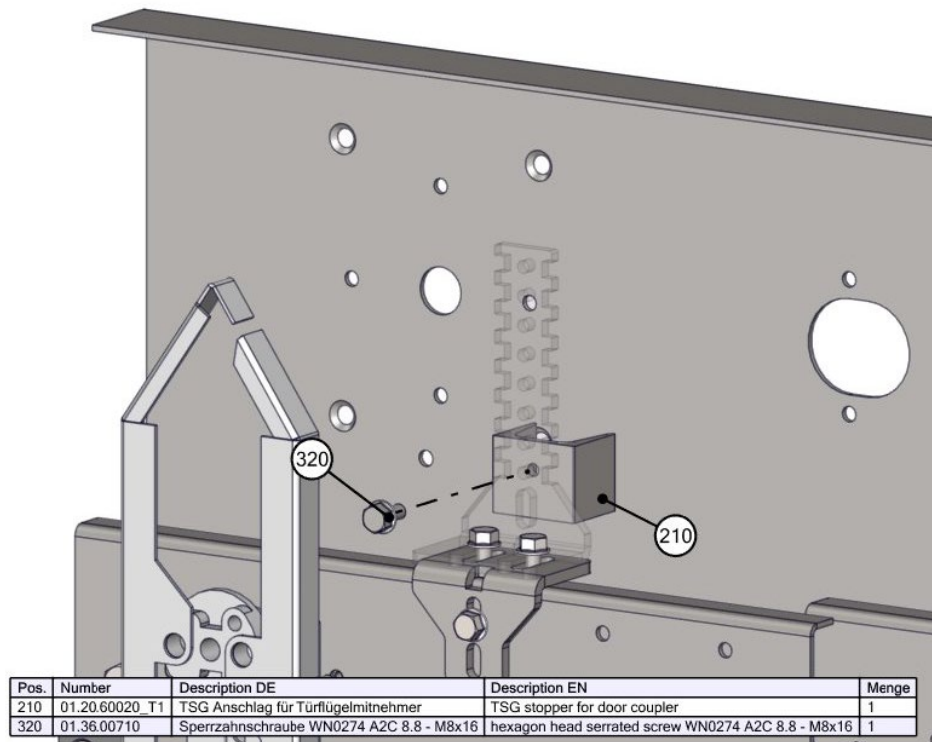
TR



TL spiegelbildlich –
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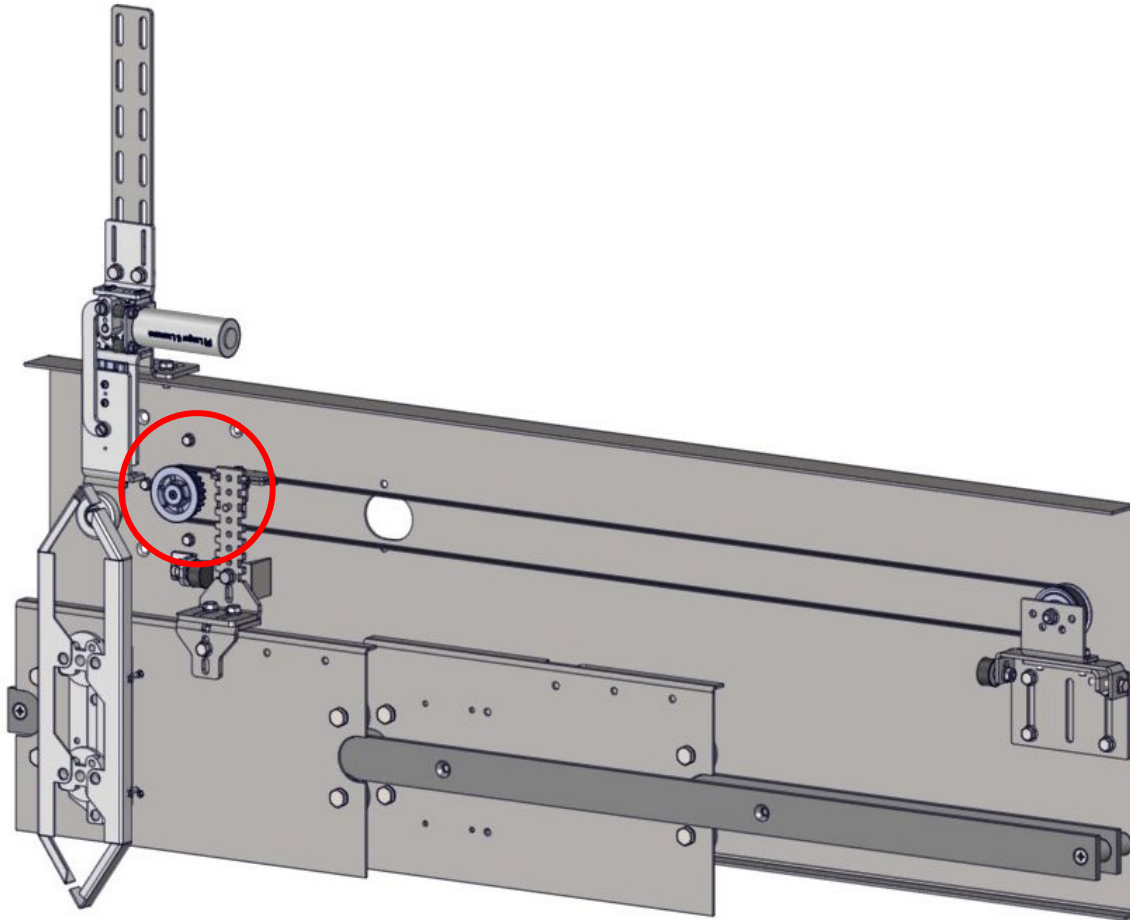


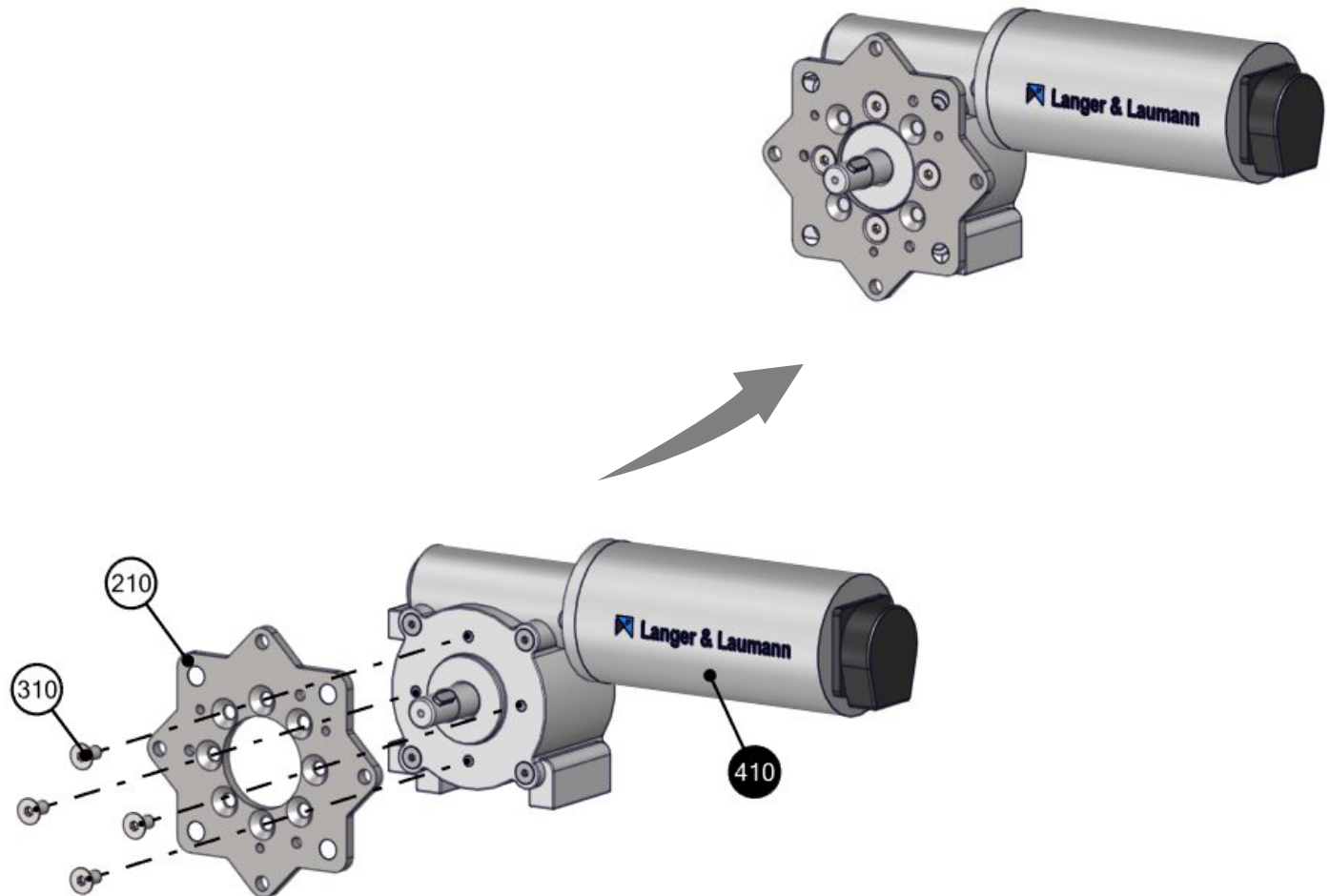




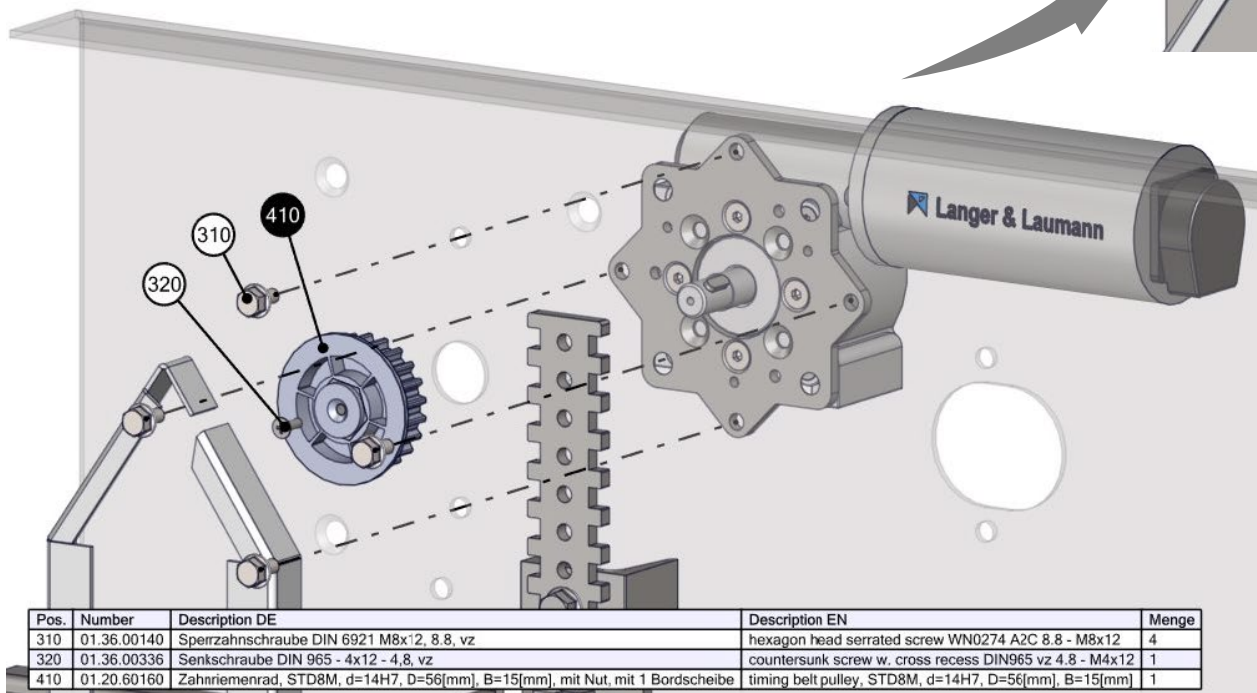
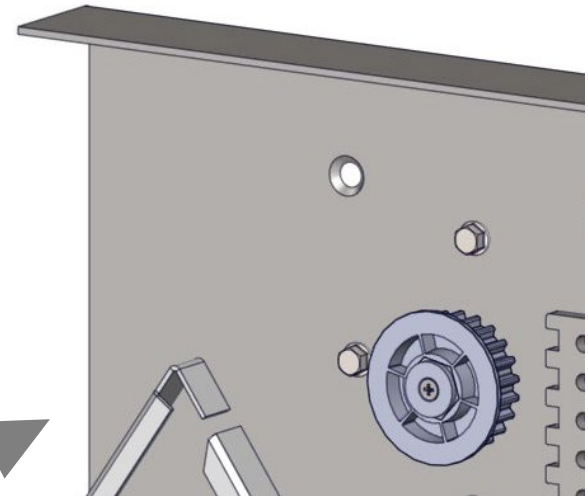
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60020 T1	TSG Anschlag für Türflügelmitnehmer	TSG stopper for door coupler	1
320	01.36.00710	Sperrzahnschraube WN0274 A2C 8.8 - M8x16	hexagon head serrated screw WN0274 A2C 8.8 - M8x16	1

Montage Motor – assembly of the motor



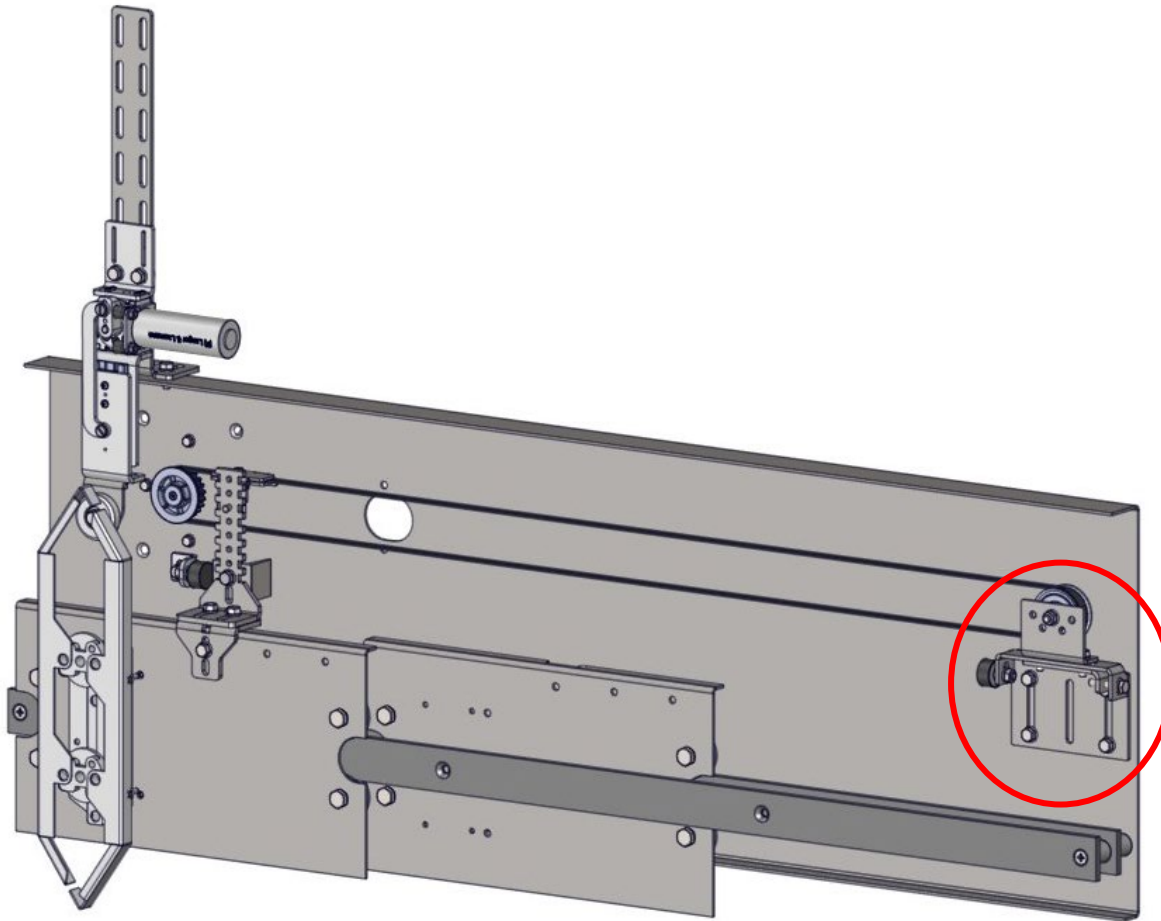


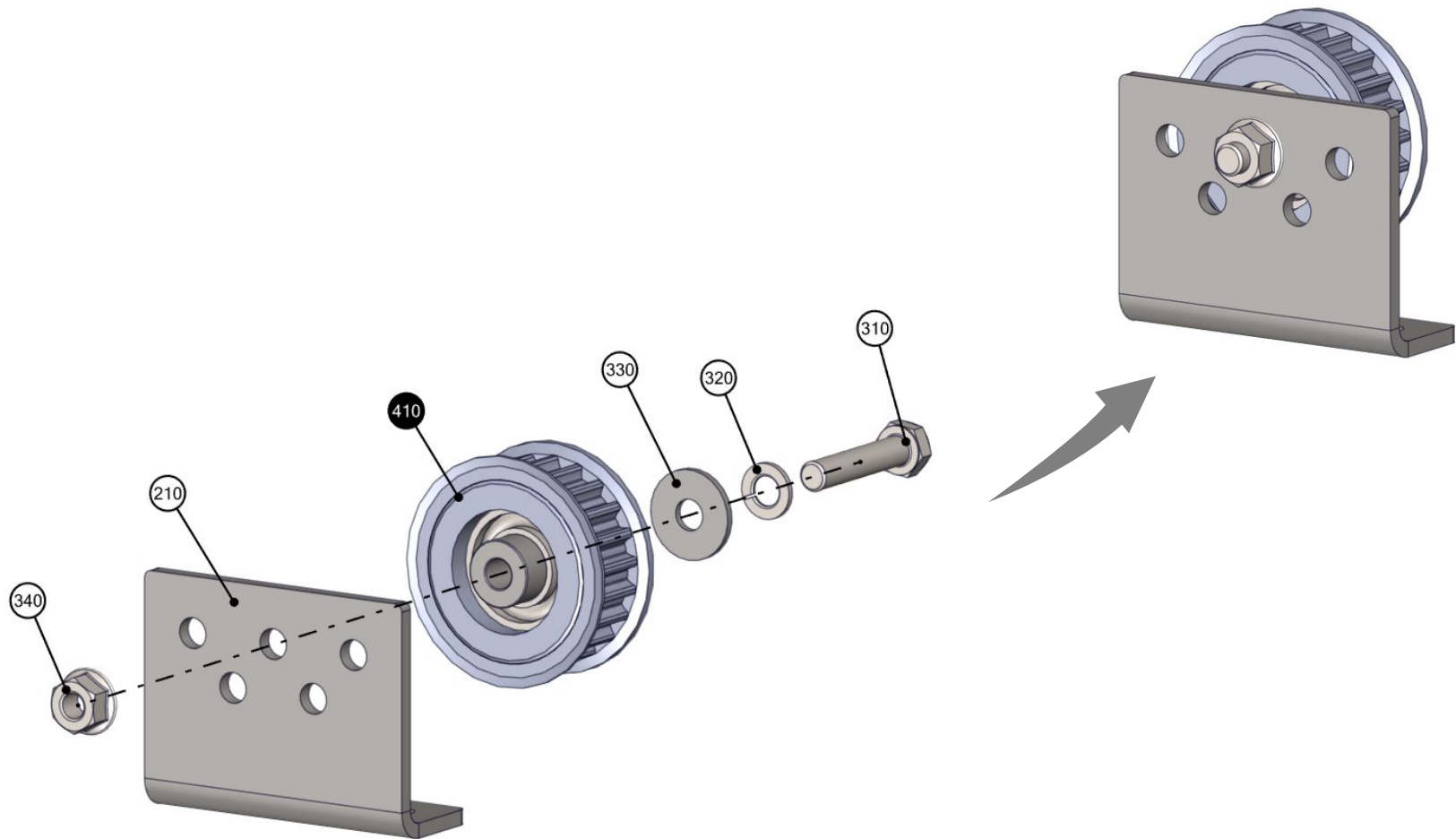
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60350	Motoradapterplatte sternförmig	motor adapter plate star-shaped	1
310	01.36.00358	Senkschraube m. Innensechskant ISO10642-M6x12-8.8	countersunk head screw w. recessed head ISO10642-M6x12-8.8	4
410	08.20.40002.K1	Motor Gross Rechts & Getriebe, ohne Zahnrad, 24V/5,1A/1:15	Motor Large Right & Gearbox, without wheel, 24V/5,1A/1:15	1



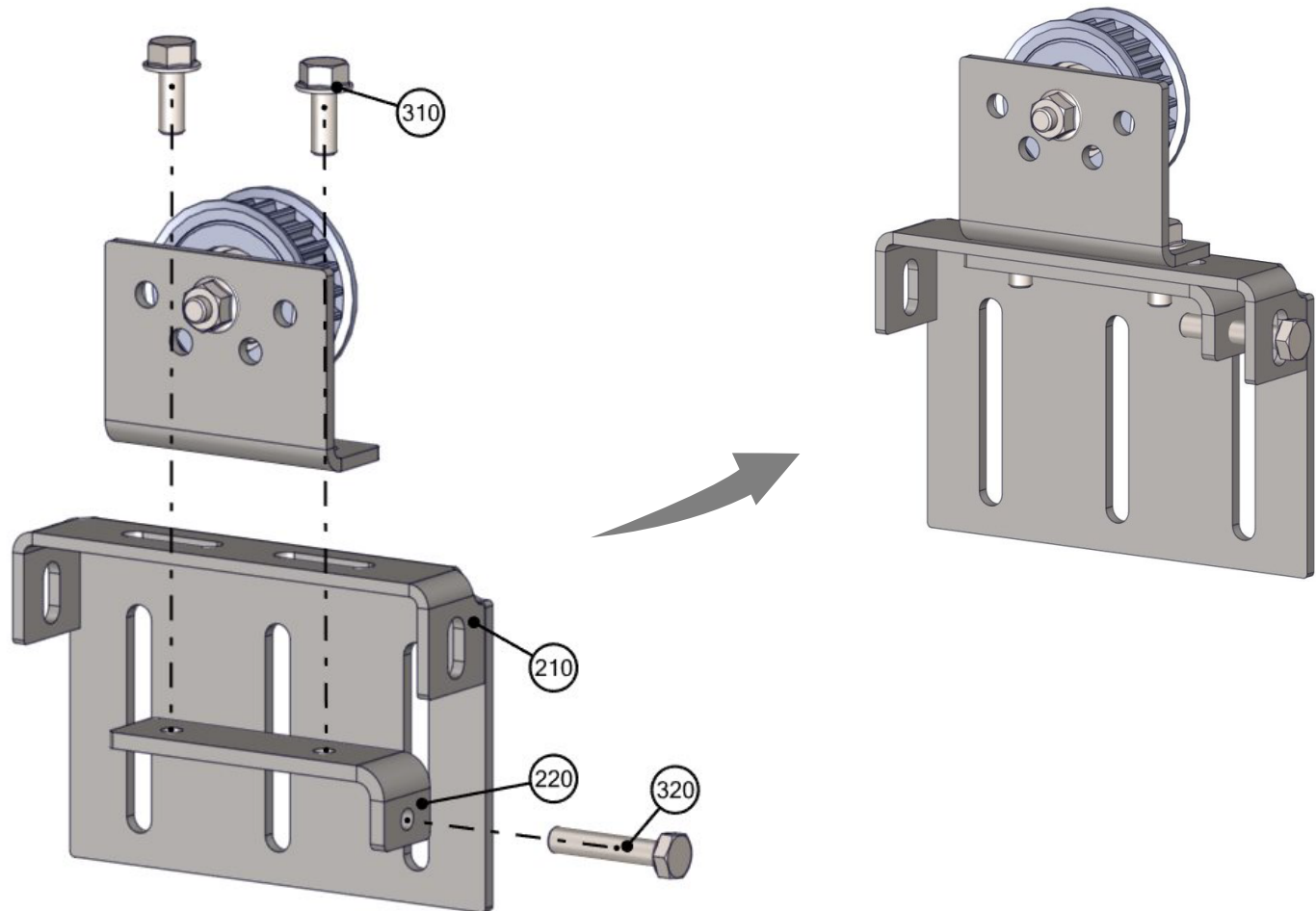
Pos.	Number	Description DE	Description EN	Menge
310	01.36.00140	Sperrzahnschraube DIN 6921 M8x12, 8.8, vz	hexagon head serrated screw WN0274 A2C 8.8 - M8x12	4
320	01.36.00336	Senkschraube DIN 965 - 4x12 - 4.8, vz	countersunk screw w. cross recess DIN965 vz 4.8 - M4x12	1
410	01.20.60160	Zahnriemenrad, STD8M, d=14H7, D=56[mm], B=15[mm], mit Nut, mit 1 Bordscheibe	timing belt pulley, STD8M, d=14H7, D=56[mm], B=15[mm]	1

Montage Umlenkrolle – assembly of TSG and pulleys

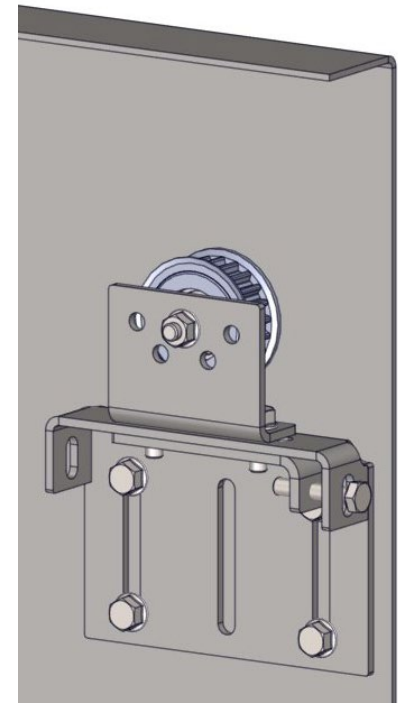
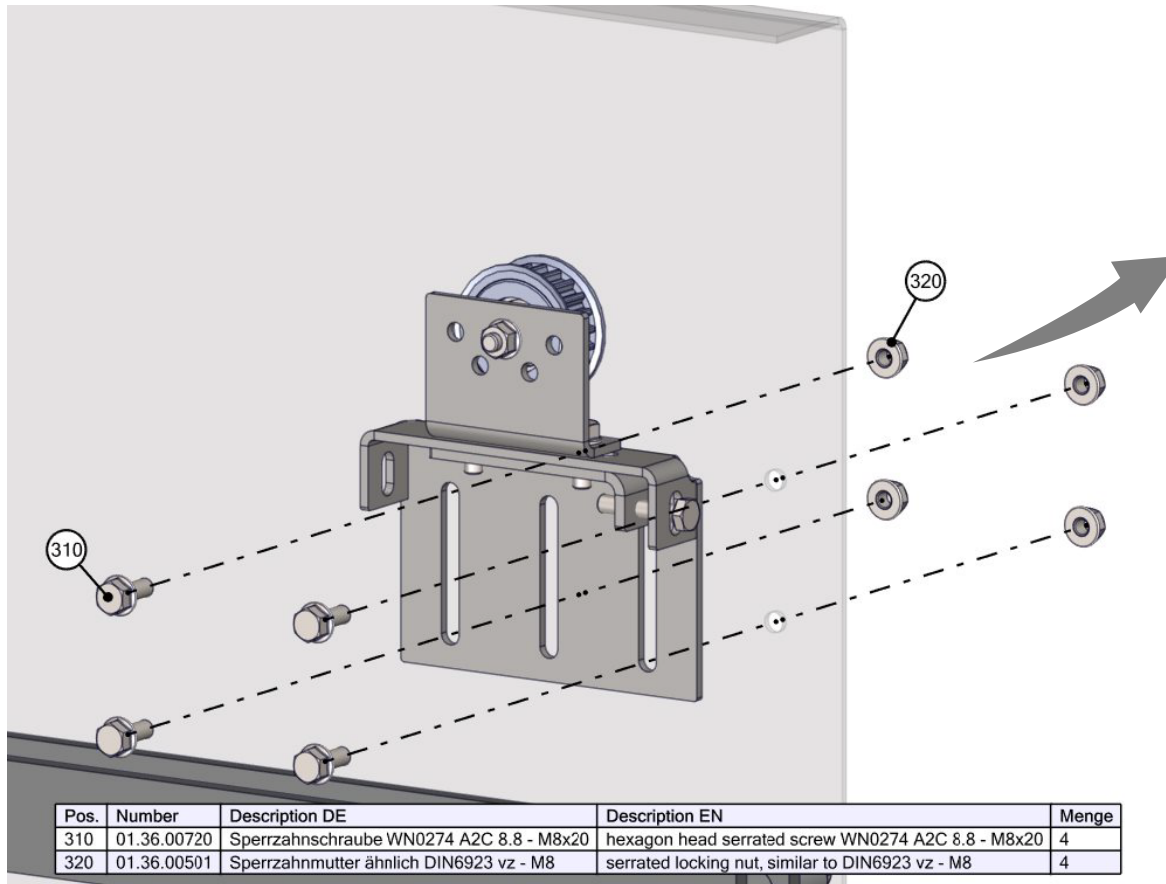




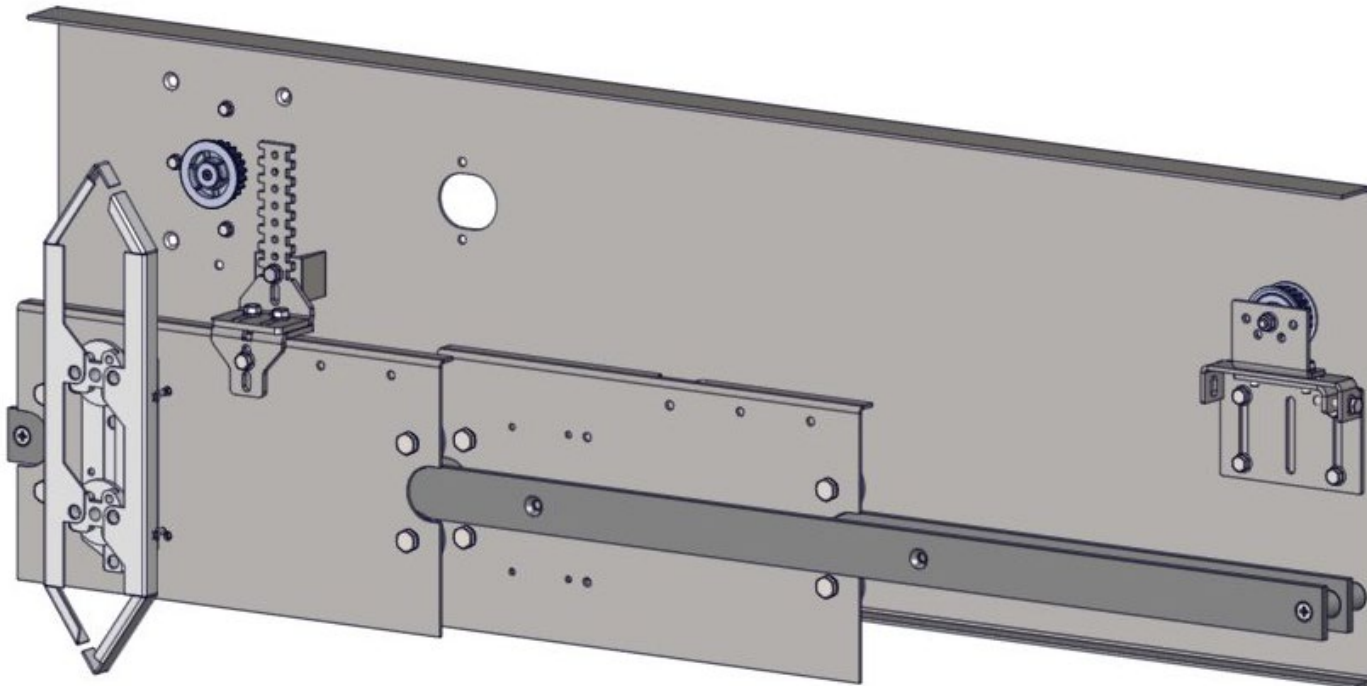
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60013 T1	Halterung Umlenkrolle für Spannstation T1	TSG bracket for counter roller	1
310	01.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	1
320	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	1
330	01.36.00450	Kotflügelscheibe DIN522 vz - 8,4x20x1,25	wing repair washer DIN522 vz - 8,4x20x1,25	1
340	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	1
410	01.20.60003	Tüte Umlenkrad	TSG counter roller	1



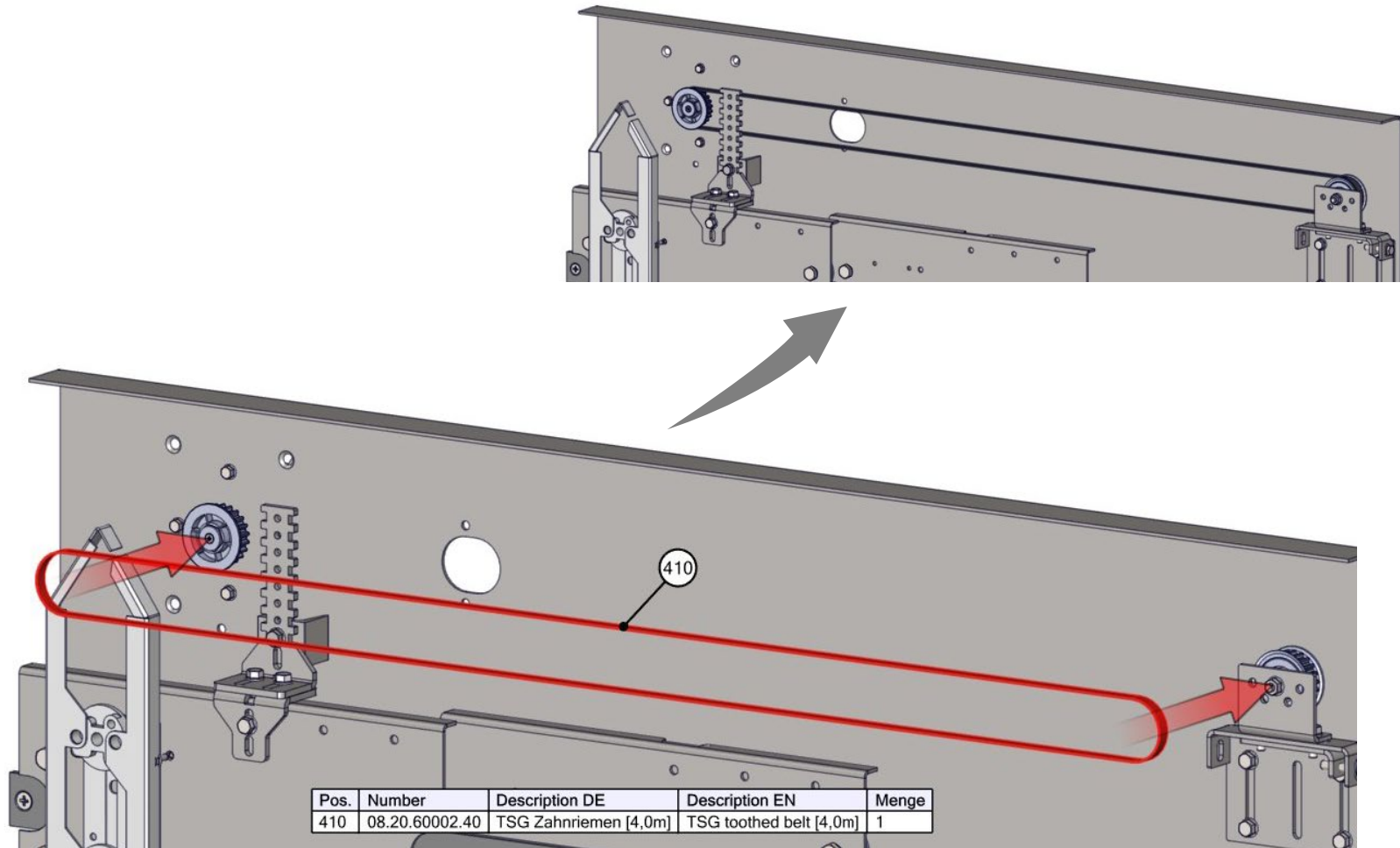
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60070	Winkel für Spannstation schmale Ausführung	TSG universal bracket counter side, slim design (35mm)	1
220	01.20.60110	Spannlasche für Spannstation	clamping tab for clamping station, normal execution	1
310	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2
320	01.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	1



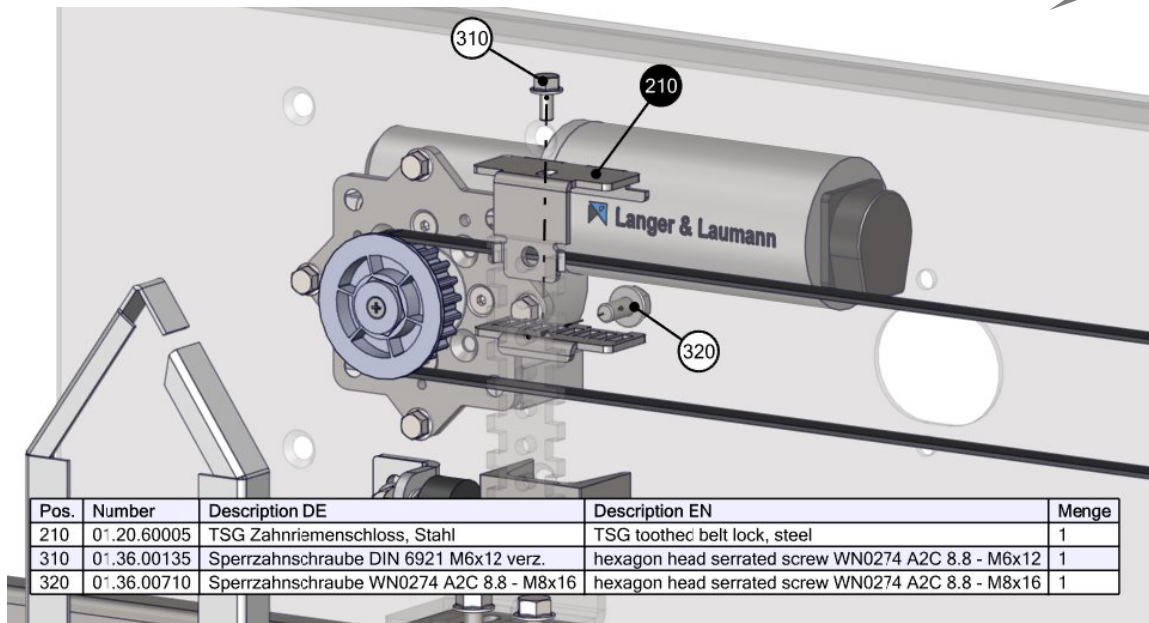
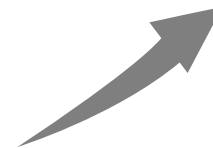
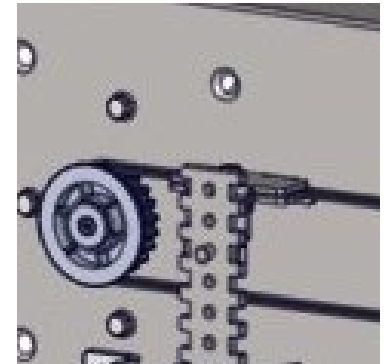
Pos.	Number	Description DE	Description EN	Menge
310	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4
320	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	4



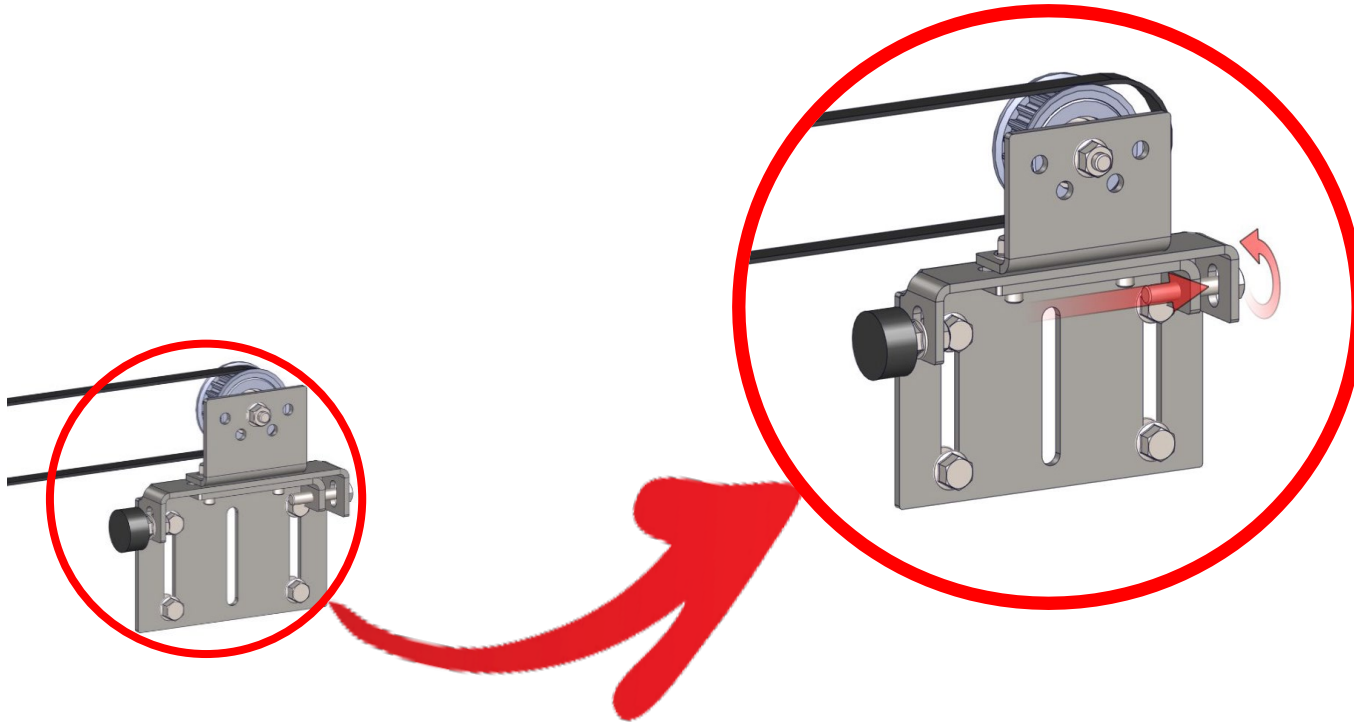
Montage Zahnriemen – assembly of the tooth belt



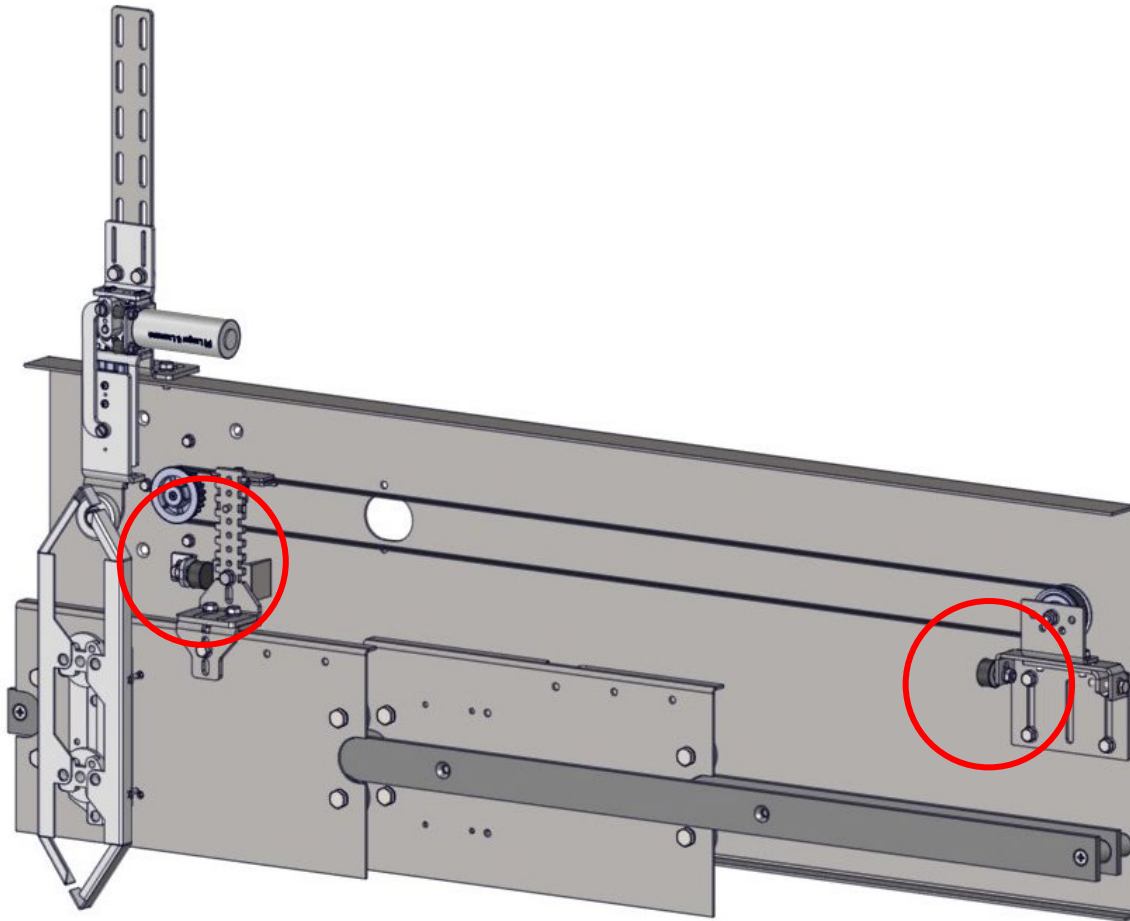
Montage Zahnriemenschloss – assembly of the tooth belt lock

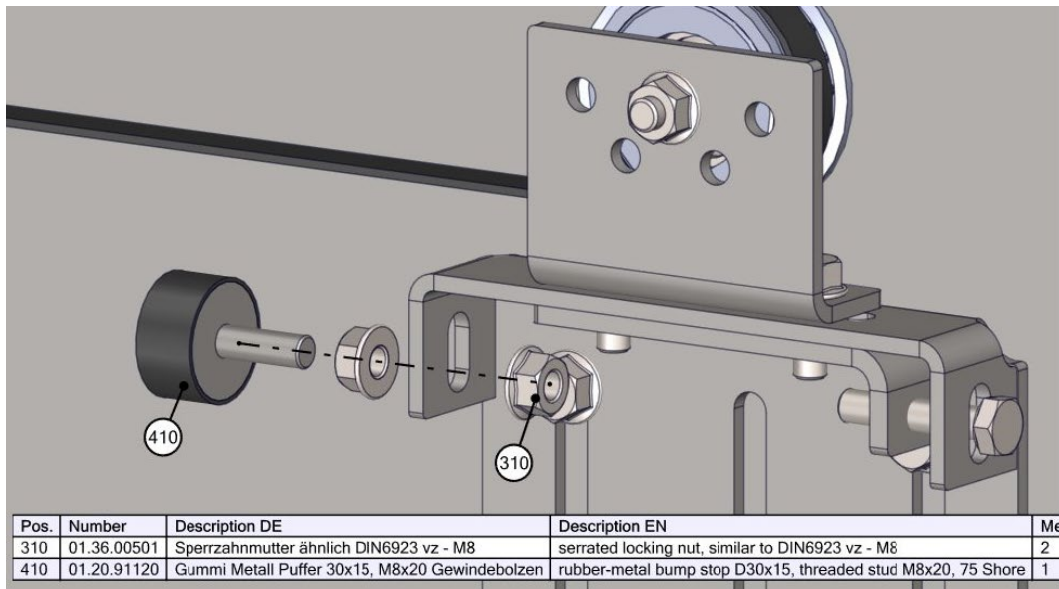
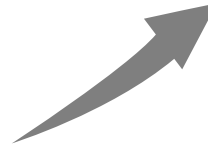
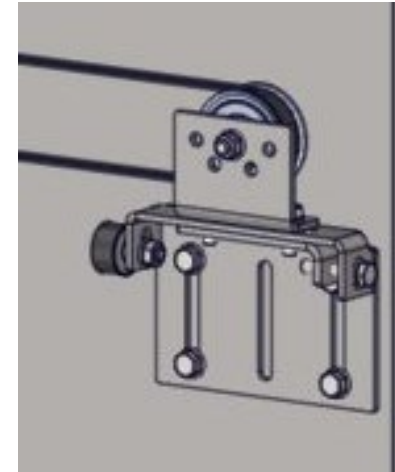


Zahnriemen spannen - tensioning tooth belt

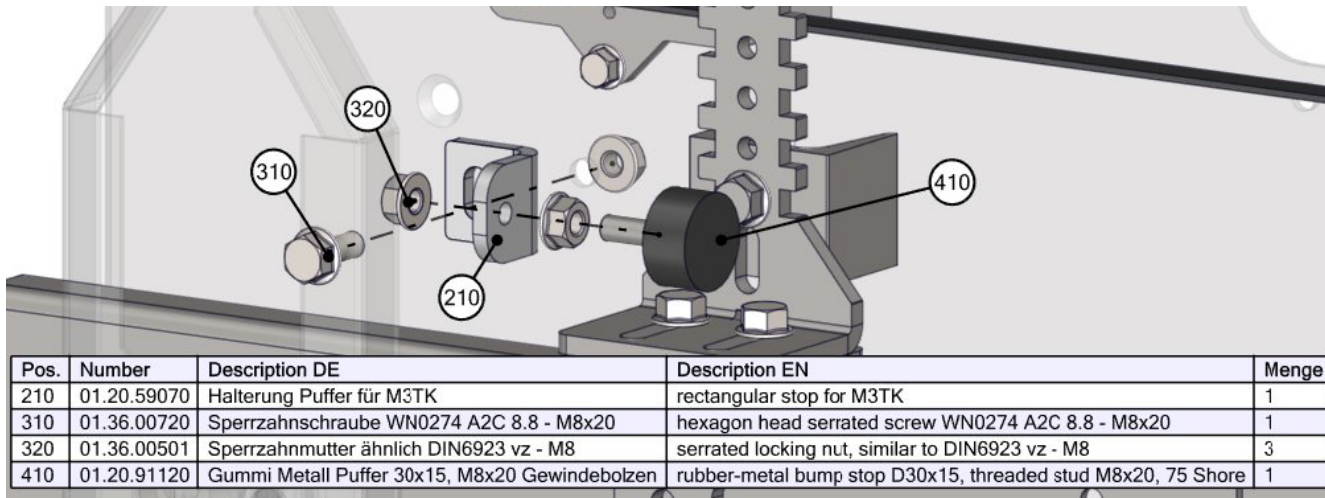
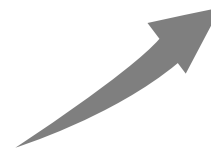
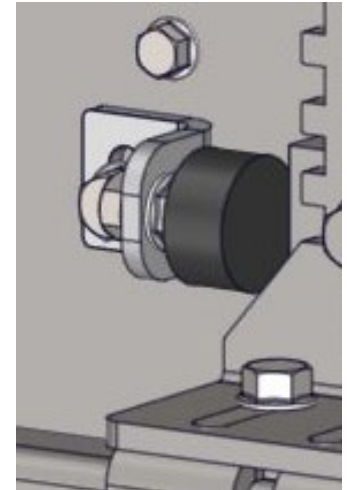


Montage Puffer – assembly of the bump stops



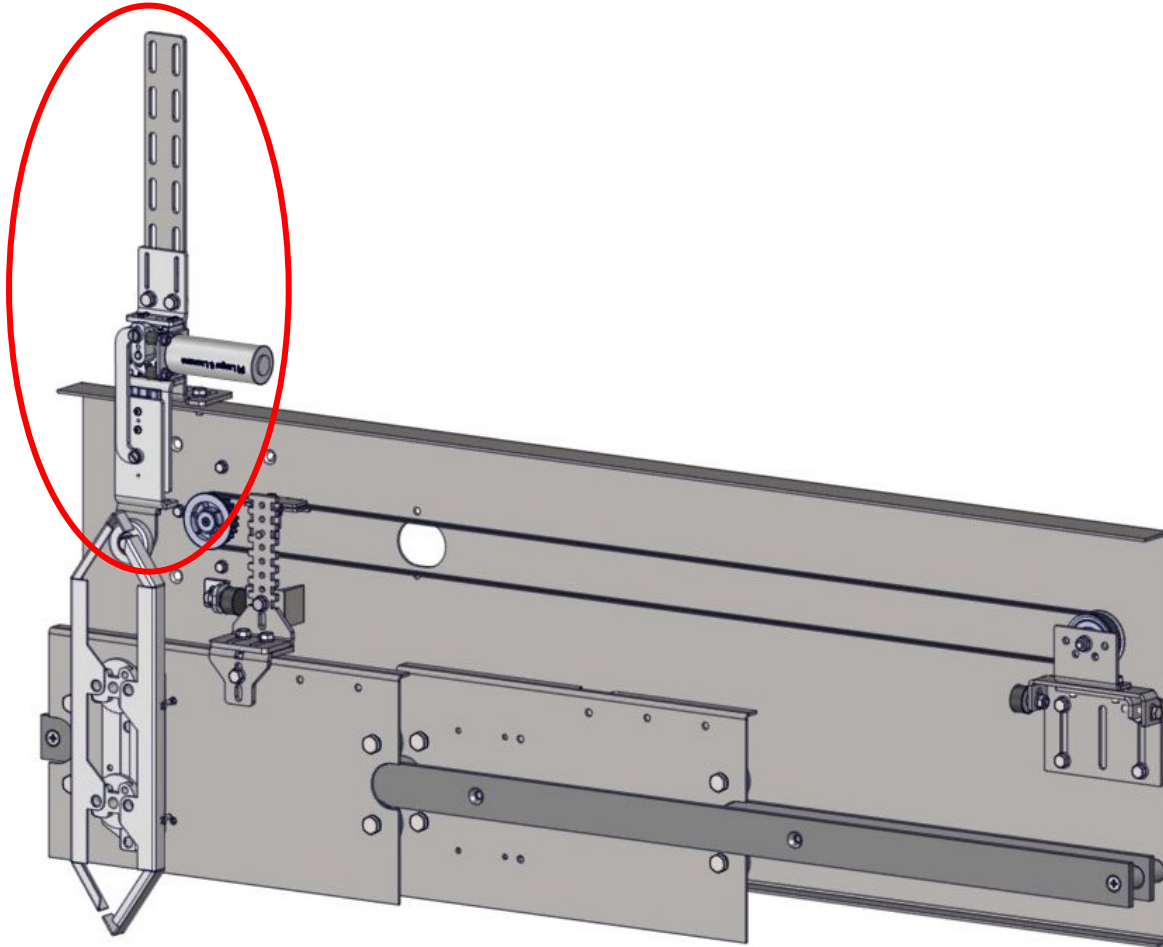


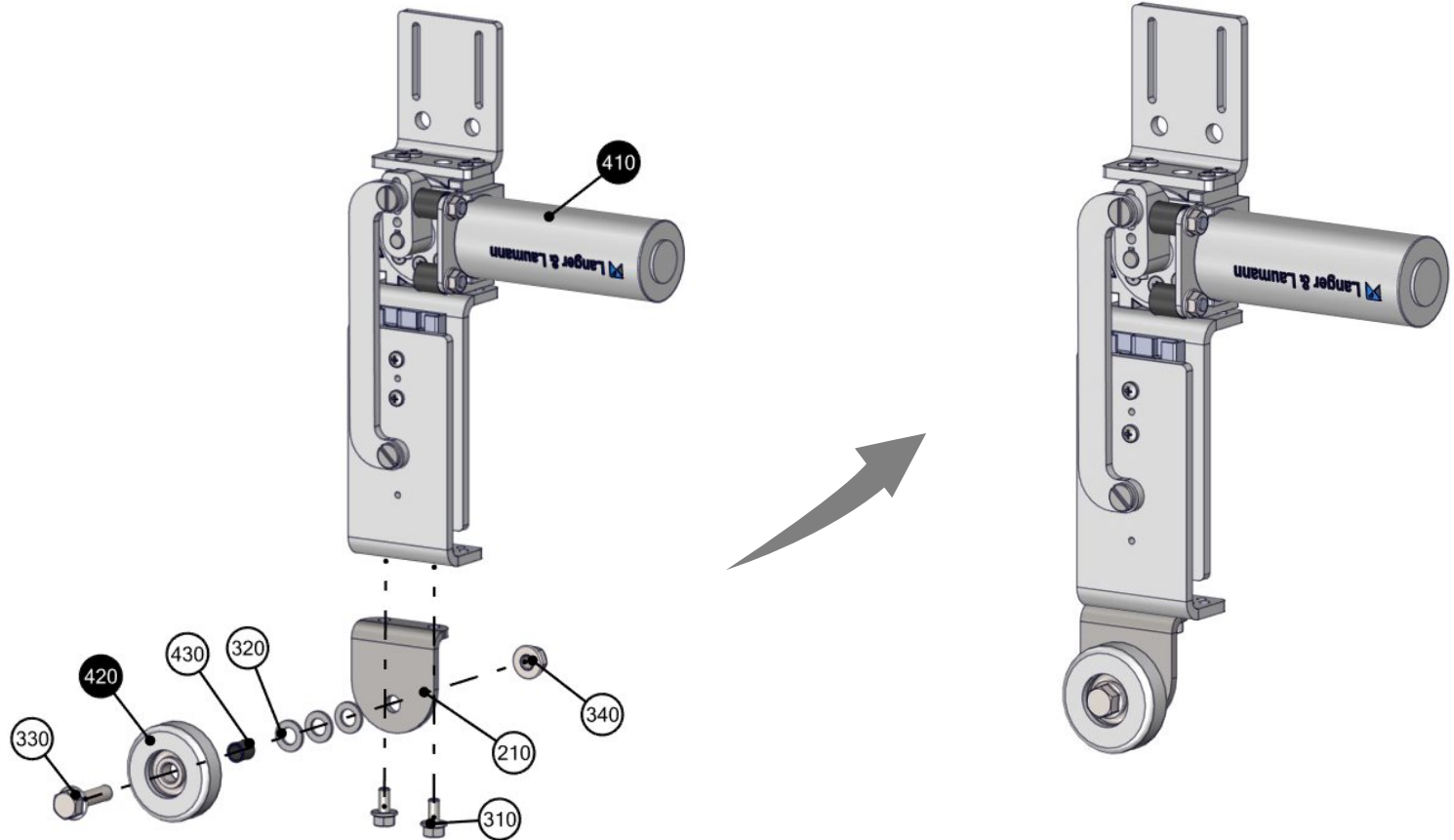
Pos.	Number	Description DE	Description EN	Menge
310	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	2
410	01.20.91120	Gummi Metall Puffer 30x15, M8x20 Gewindebolzen	rubber-metal bump stop D30x15, threaded stud M8x20, 75 Shore	1



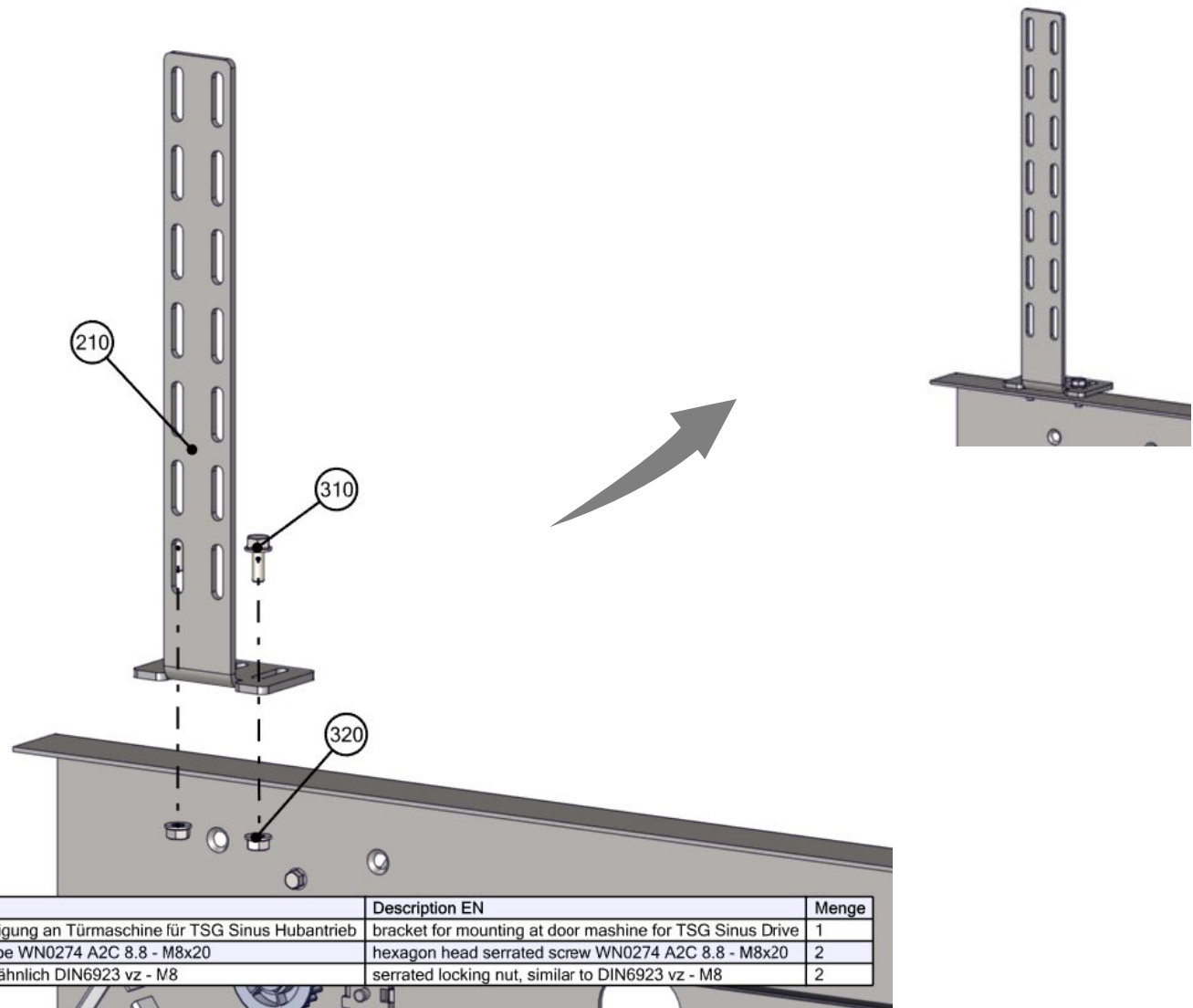
Pos.	Number	Description DE	Description EN	Menge
210	01.20.59070	Halterung Puffer für M3TK	rectangular stop for M3TK	1
310	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	1
320	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	3
410	01.20.91120	Gummi Metall Puffer 30x15, M8x20 Gewindebolzen	rubber-metal bump stop D30x15, threaded stud M8x20, 75 Shore	1

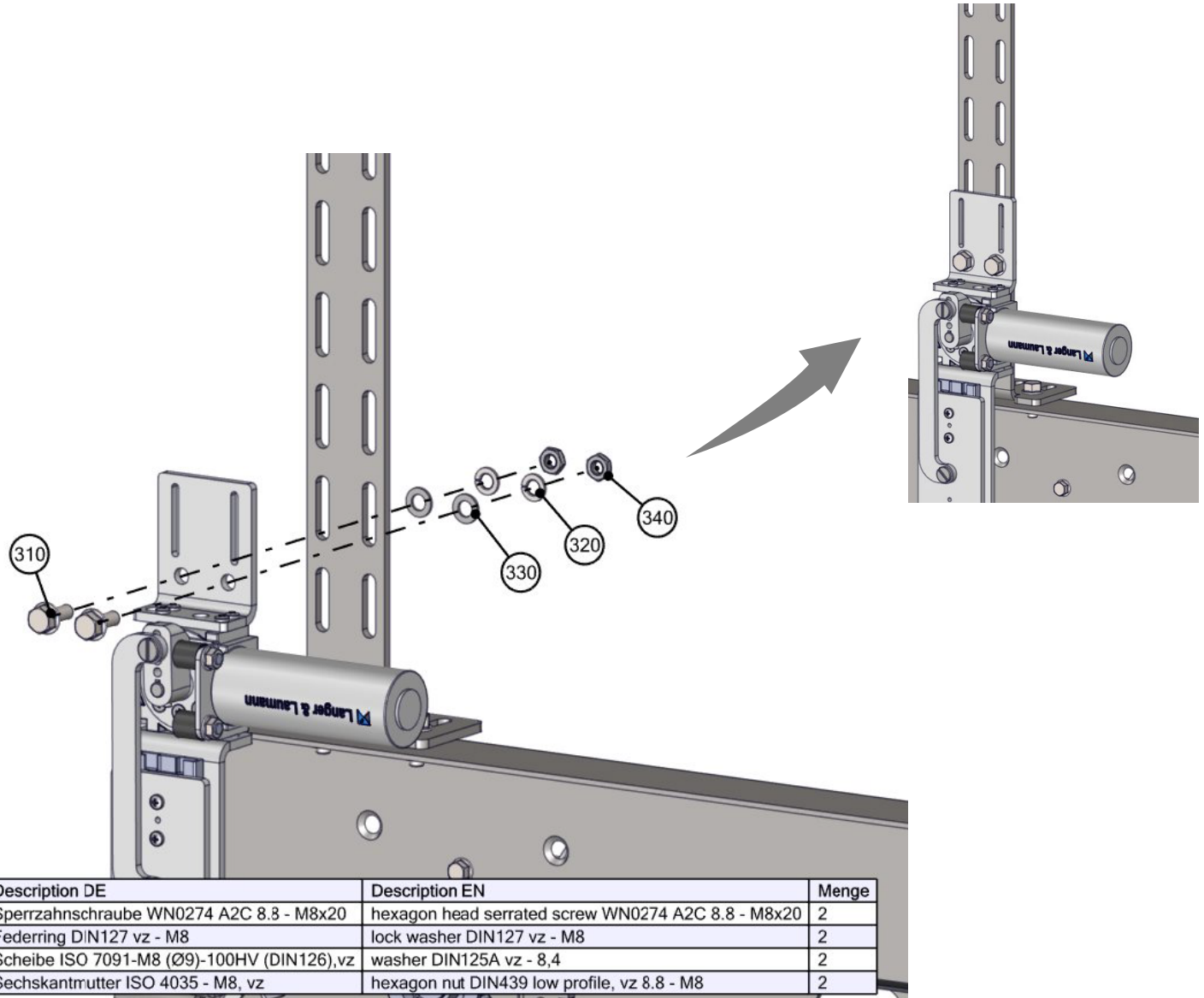
Montage Sinusantrieb – assembly of the sinus drive

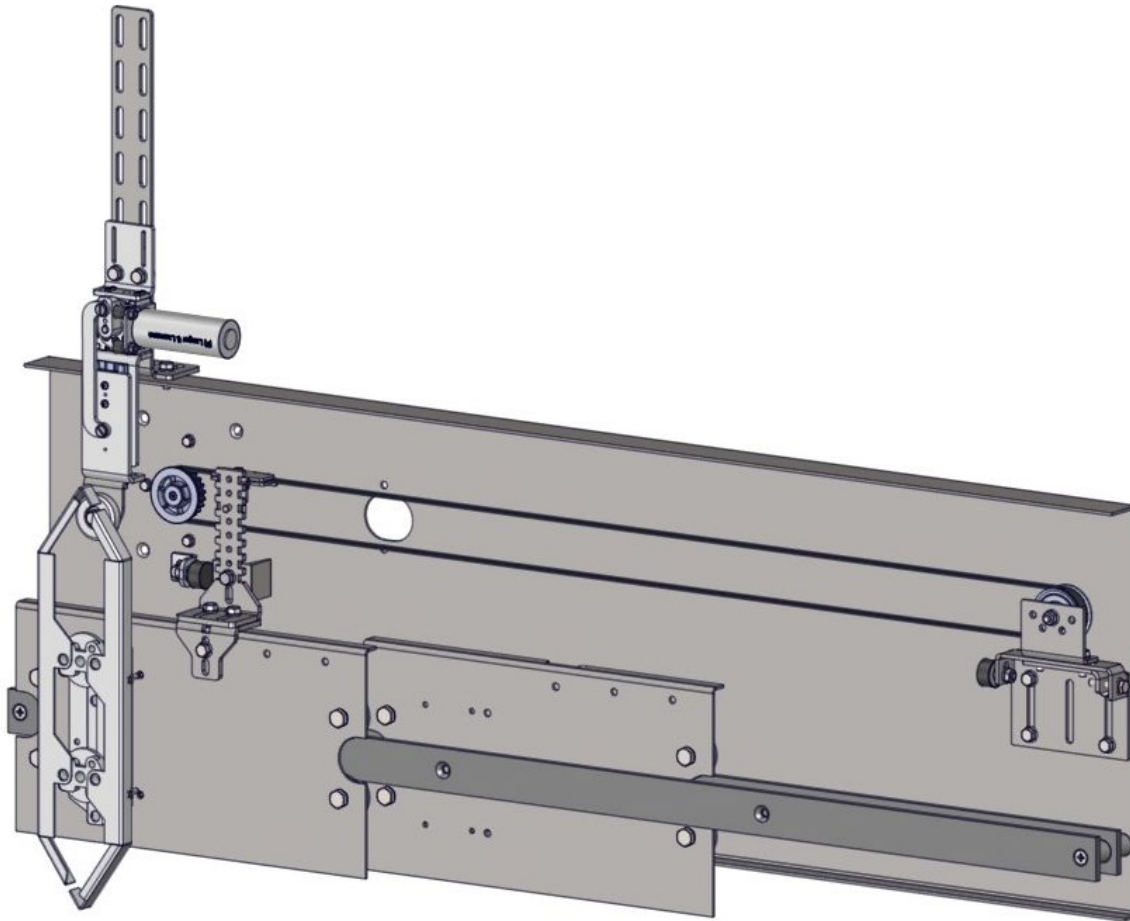


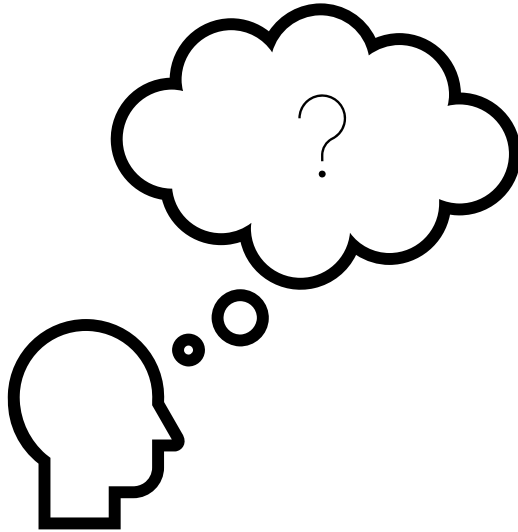


Pos.	Number	Description DE	Description EN	Menge
210	01.20.94080	Rollenhalter für TSG Sinusantrieb	roll holder for TSG Sinus Drive	1
310	01.36.00135	Sperrzahnschraube DIN 6921 M6x12 verz.	hexagon head serrated screw WN0274 A2C 8.8 - M6x12	2
320	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126),vz	washer DIN125A vz - 8,4	3
330	01.36.00730	Sperrzahnschraube WN0274 A2C 8.8 - M8x30	hexagon head serrated screw WN0274 A2C 8.8 - M8x30	1
340	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	1
410	08.20.83112	TSG Sinusantrieb rechts für Riegelbetätigung (ohne TSG Elektronik)	TSG Sinus Drive right for interlock operation	1
420	01.20.41010	Rad mit Kugellager, gespritztem Polyurethan, D=50[mm], für M10	wheel with ball bearing, injected polyurethane, D=50[mm], für M10	1
430	01.20.41020	Gleitlager für Rad mit Kugellager, d1=8mm d2=10mm Breite=10mm	slide bearing with wheel	1









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