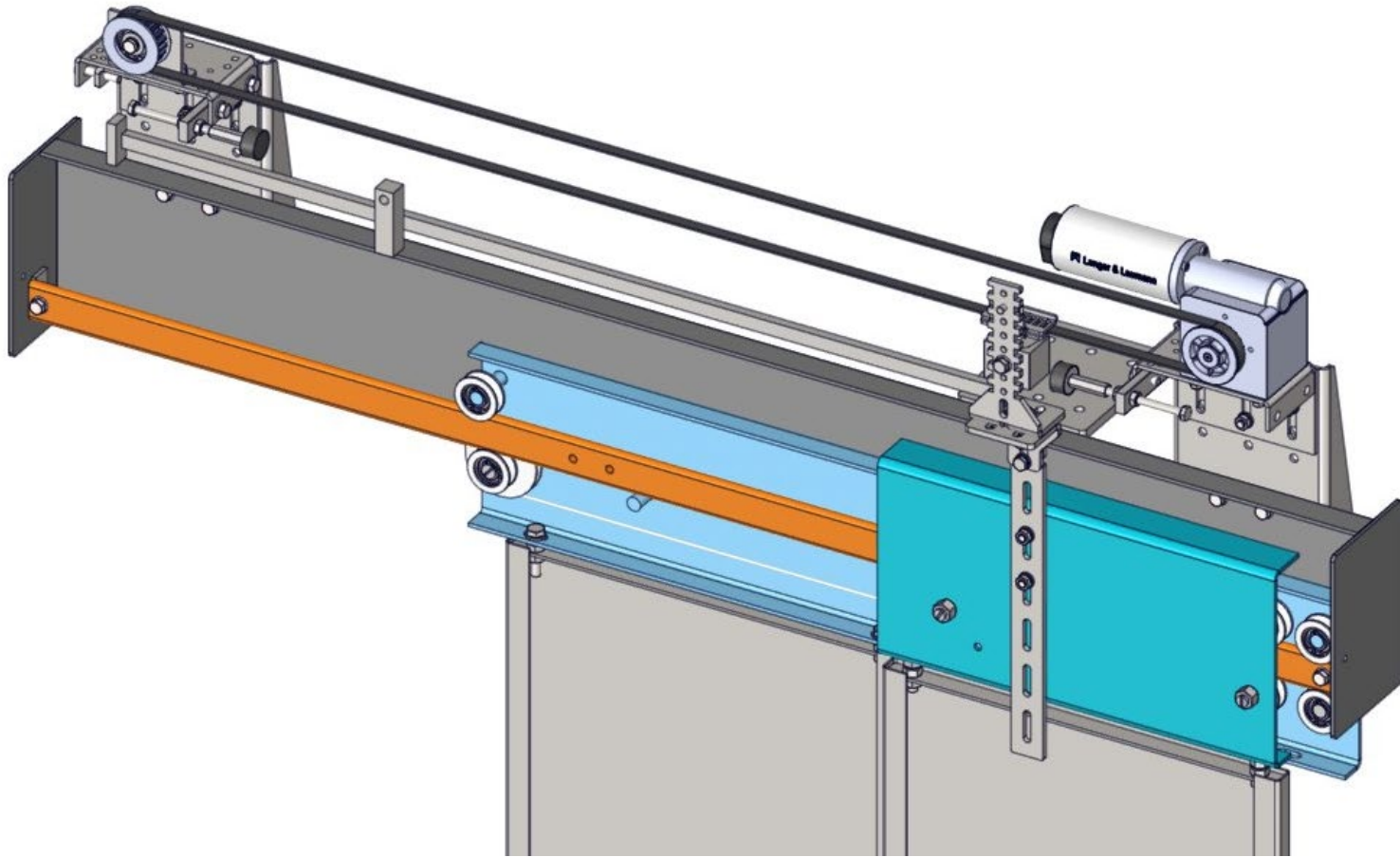


Montageanleitung **Assembly Instruction**

TSG in Osma Typ 1 **TSG in Osma type 1**

TSG in Osma Typ 1 – TSG in Osma type 1



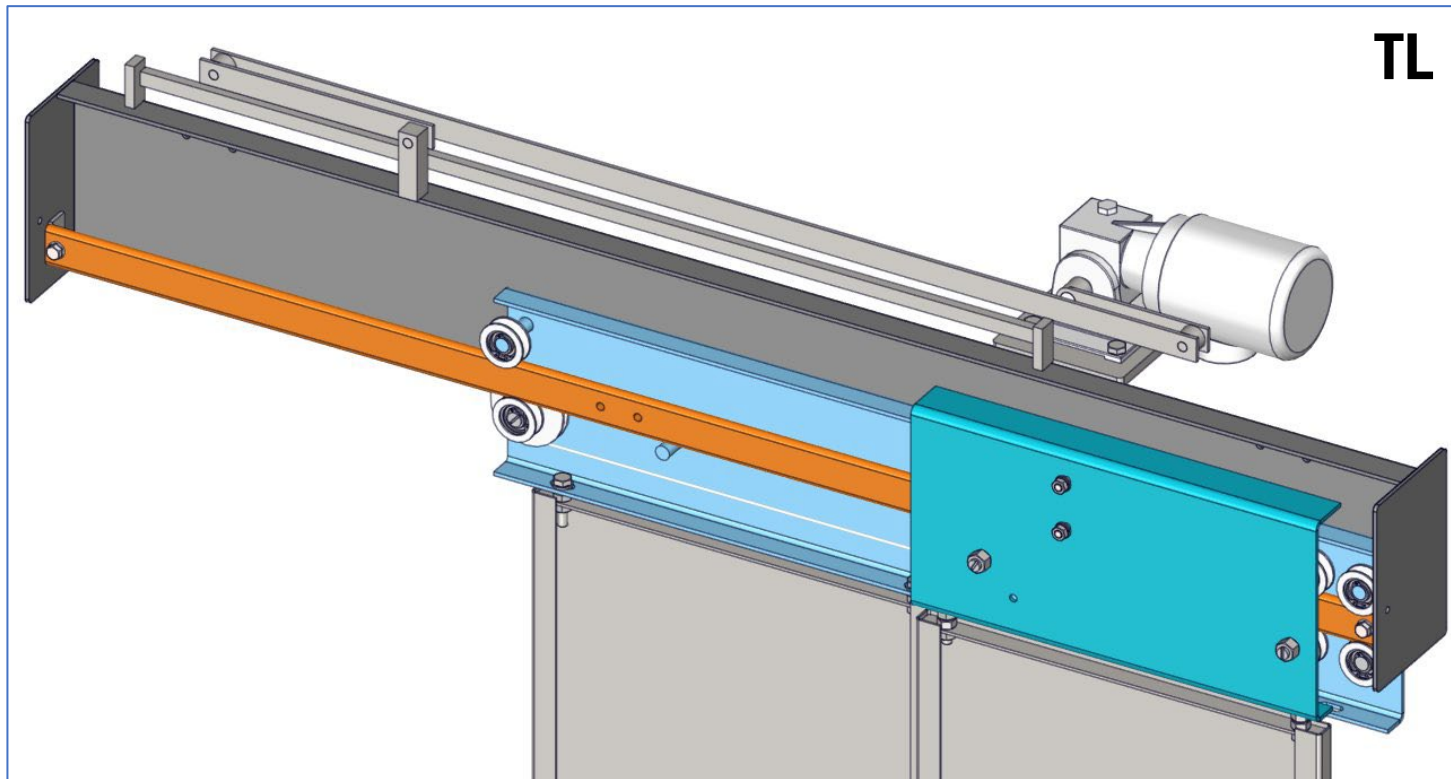
Lieferumfang – scope of supply



picture	Number	description DE	description EN	quantity
	8.20.00101.04	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.X1	Motor Gross Rechts oder Links & Getriebe, 24V/4,9A/1:15	motor large right or left & gearbox, 24V/4,9A/1:15	1
	8.20.60002.40	TSG Zahnriemen [4,0m]	TSG toothed belt [4,0m]	1
	1.20.60004	TSG Türflügelmitnehmer	TSG door panel coupler	1
	1.20.91090	Haltewinkel	bracket	2
	8.20.11010	TSG Türflügelmitnehmer rechtwinkelig	TSG door panel coupler, right angled	1
	8.20.10010	TSG Beschlagsatz für Umbau, im Karton	TSG brackets for conversion, in carton	1
	1.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	8

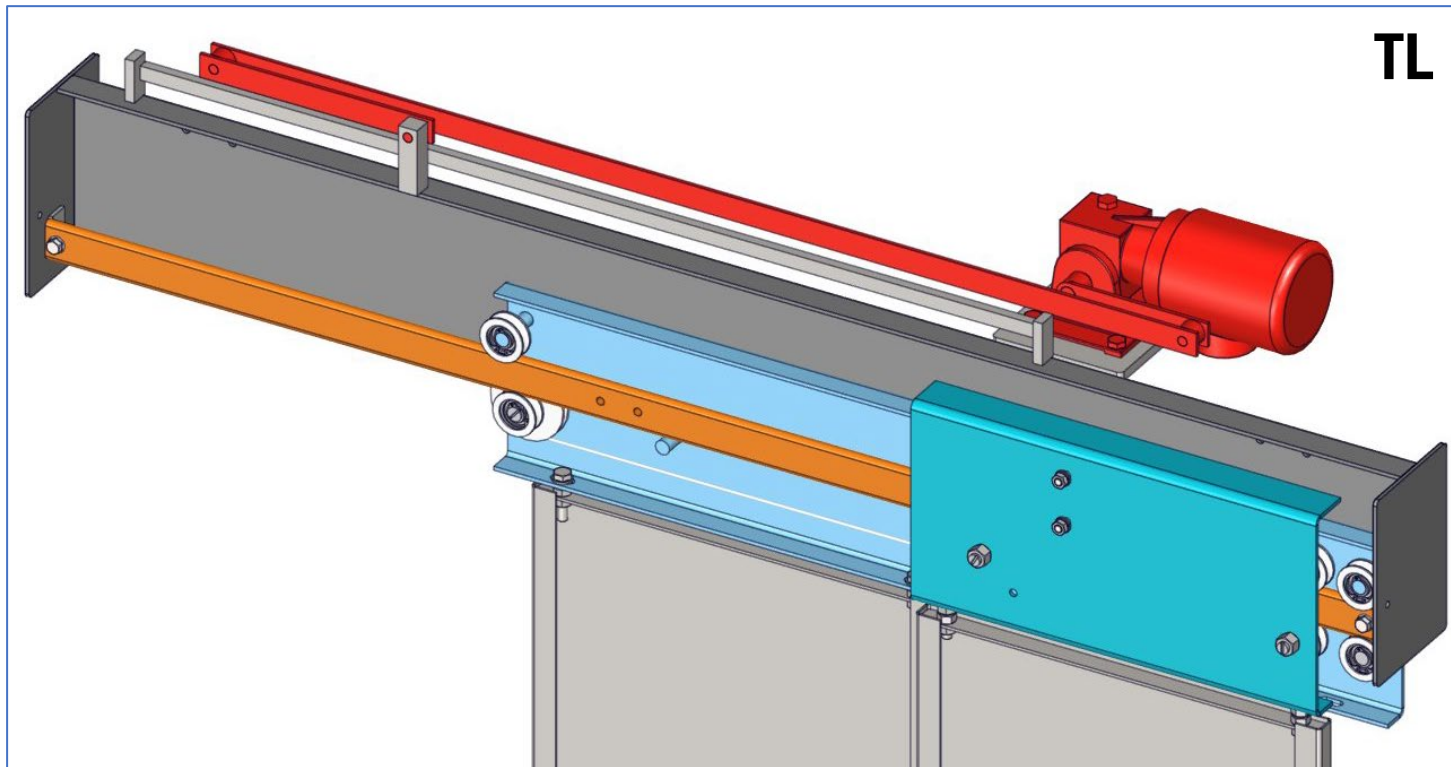
picture	Number	description DE	description EN	quantity
	1.36.00730	Sperrzahnschraube WN0274 A2C 8.8 - M8x30	hexagon head serrated screw WN0274 A2C 8.8 - M8x30	10
	1.36.00501	Sperrzahnmutter, ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	10
	1.36.00430	Sechskantmutter DIN934-8 vz 8.8 - M8	hexagon nut DIN934-8 vz 8.8 - M8	14
	1.36.00440	Scheibe DIN125A vz - 8,4	washer DIN125A vz - 8,4	14
	1.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	14

Vor Umbau – Before conversion



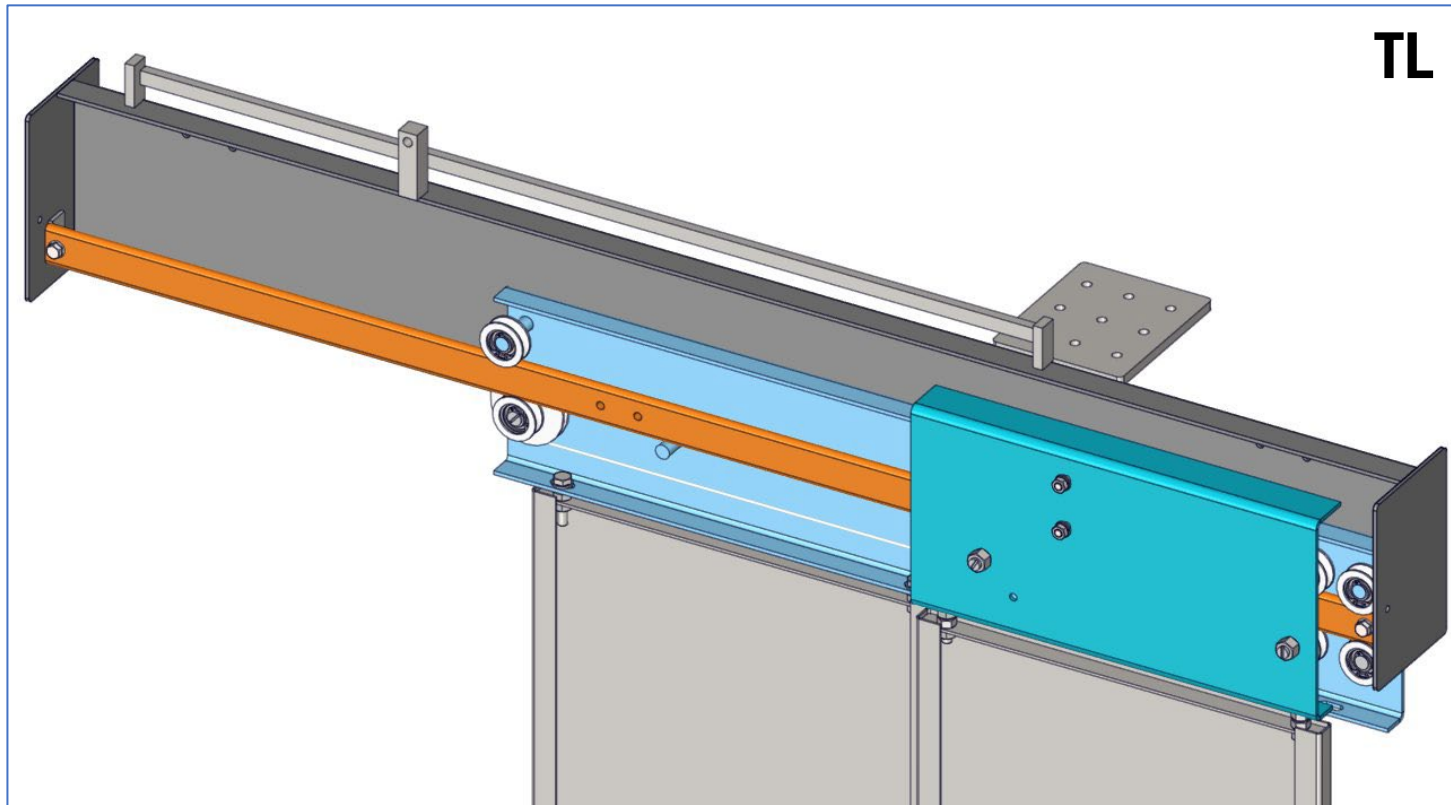
TR spiegelbildlich –
TR mirrored

Vor Umbau entfernen – remove before conversion



TR spiegelbildlich –
TR mirrored

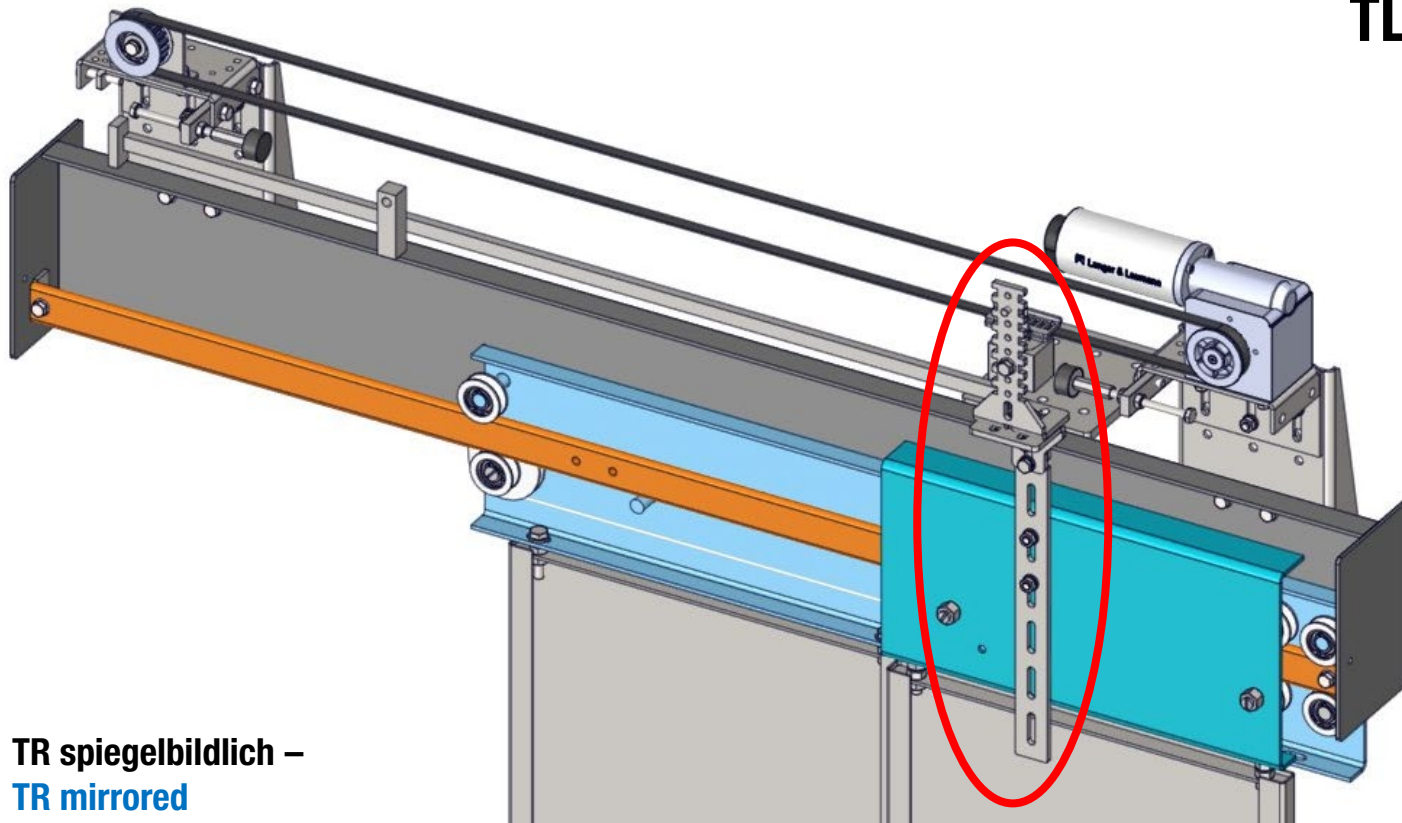
Nach Demontage – After disassembly



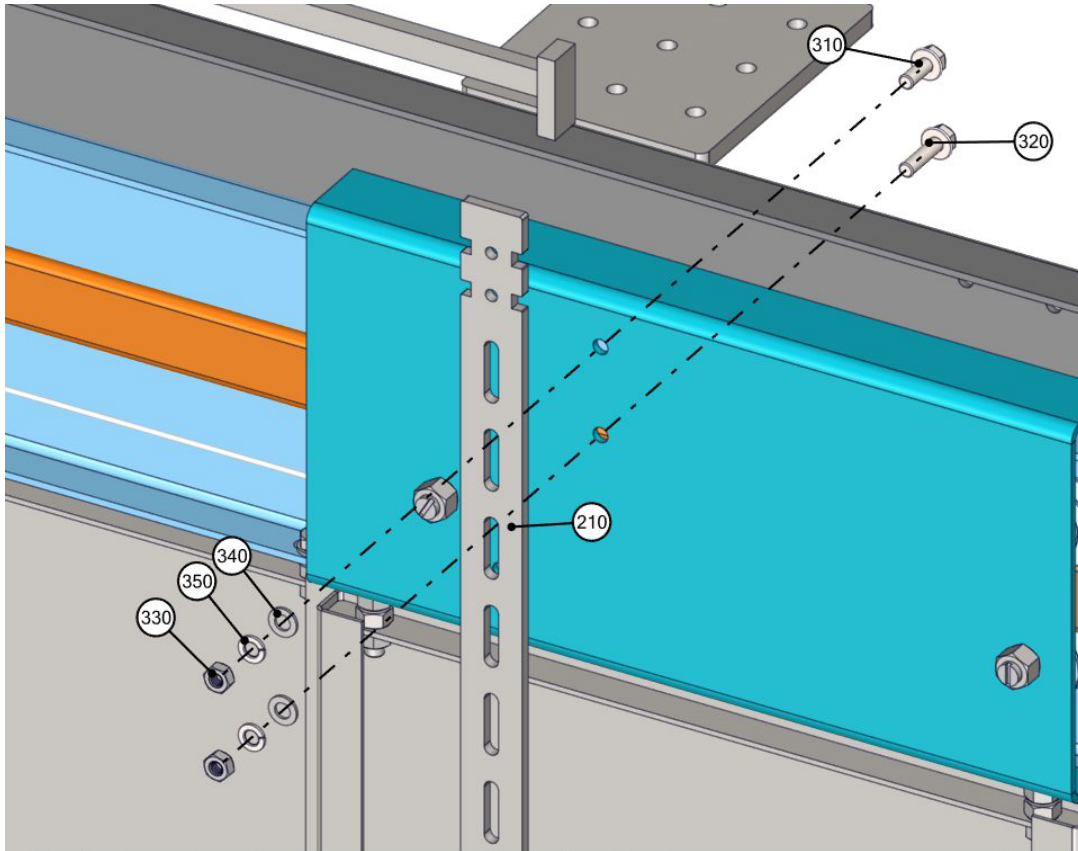
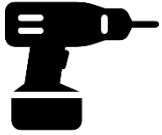
TR spiegelbildlich –
TR mirrored

Montage Türflügelmitnehmer – Assembly of the door panel coupler

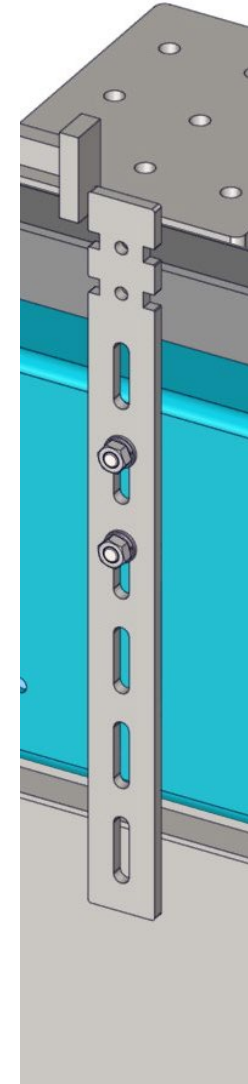
TL

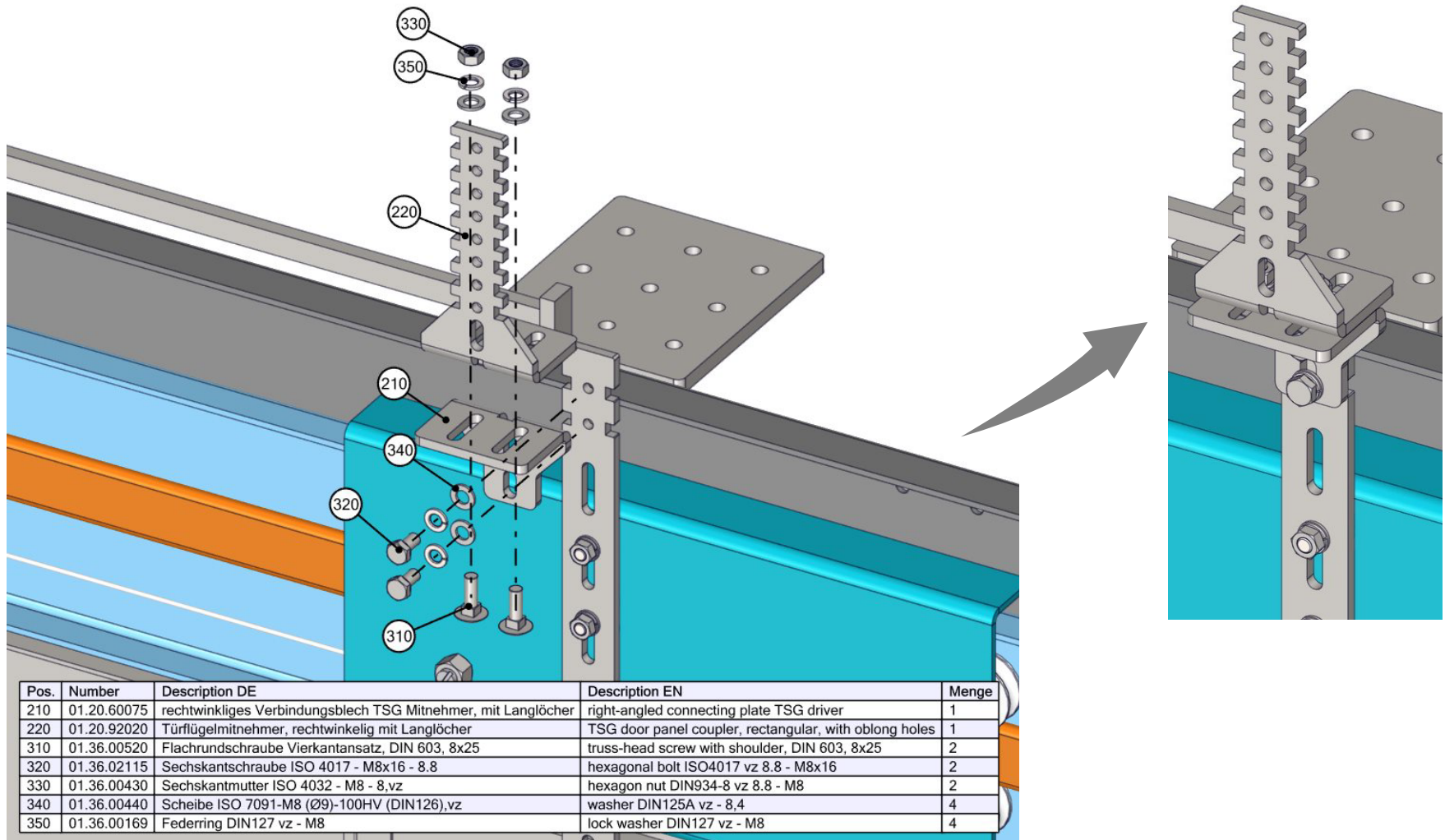


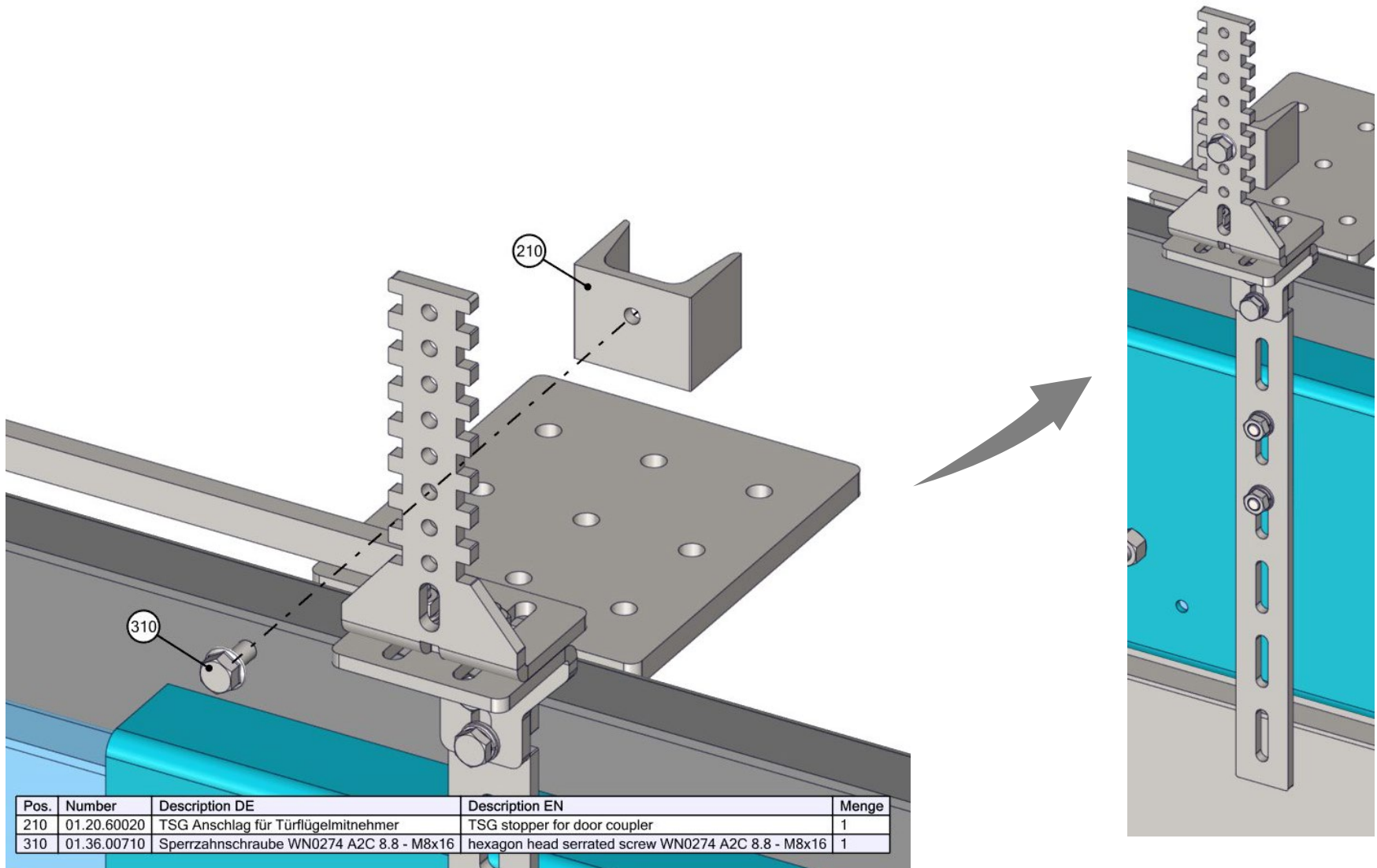
TR spiegelbildlich –
TR mirrored



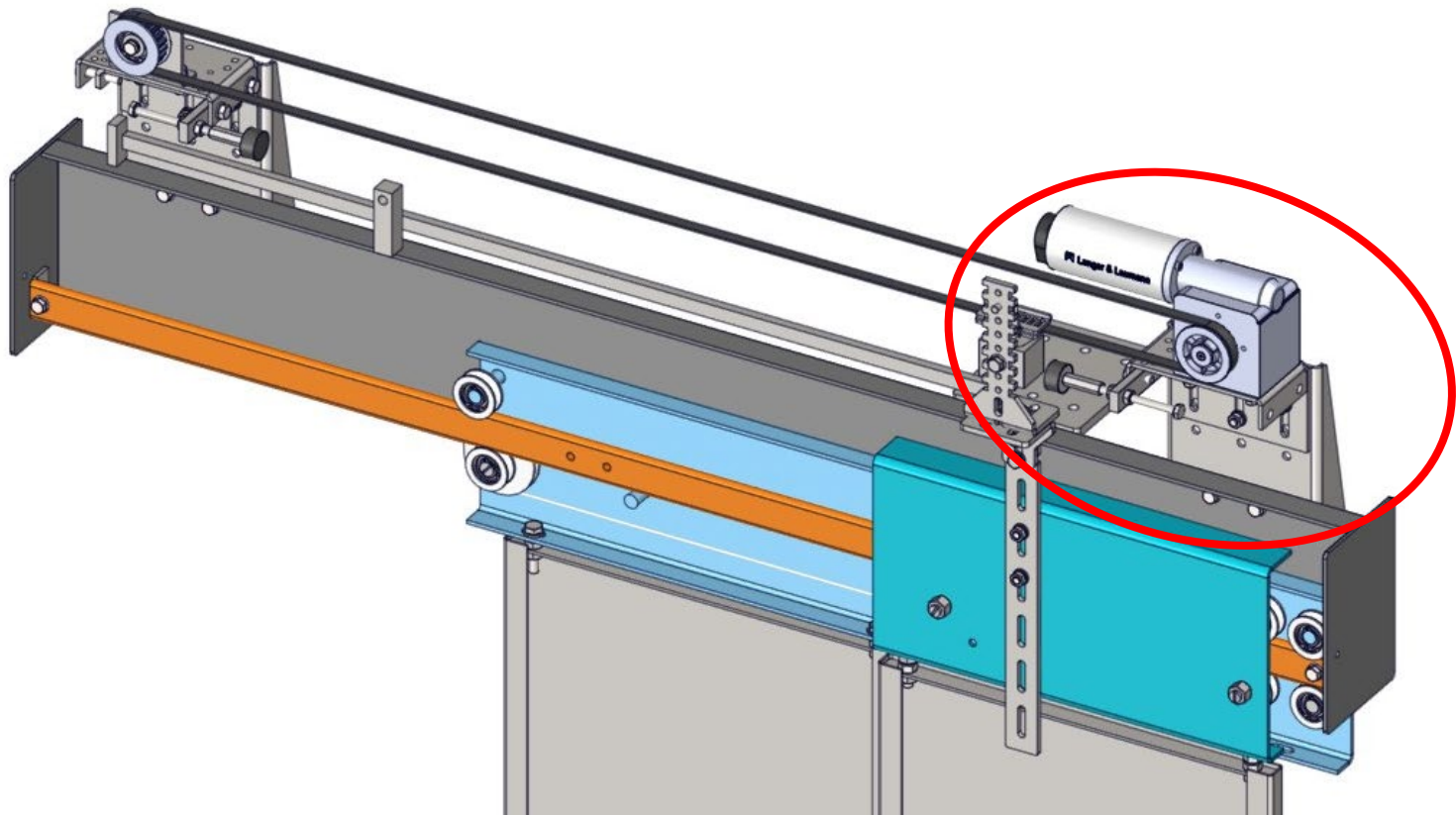
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60004	Türflügelmitnehmer 375x35x6	TSG door panel coupler 375x35x6	1
310	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	1
320	01.36.00730	Sperrzahnschraube WN0274 A2C 8.8 - M8x30	hexagon head serrated screw WN0274 A2C 8.8 - M8x30	1
330	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

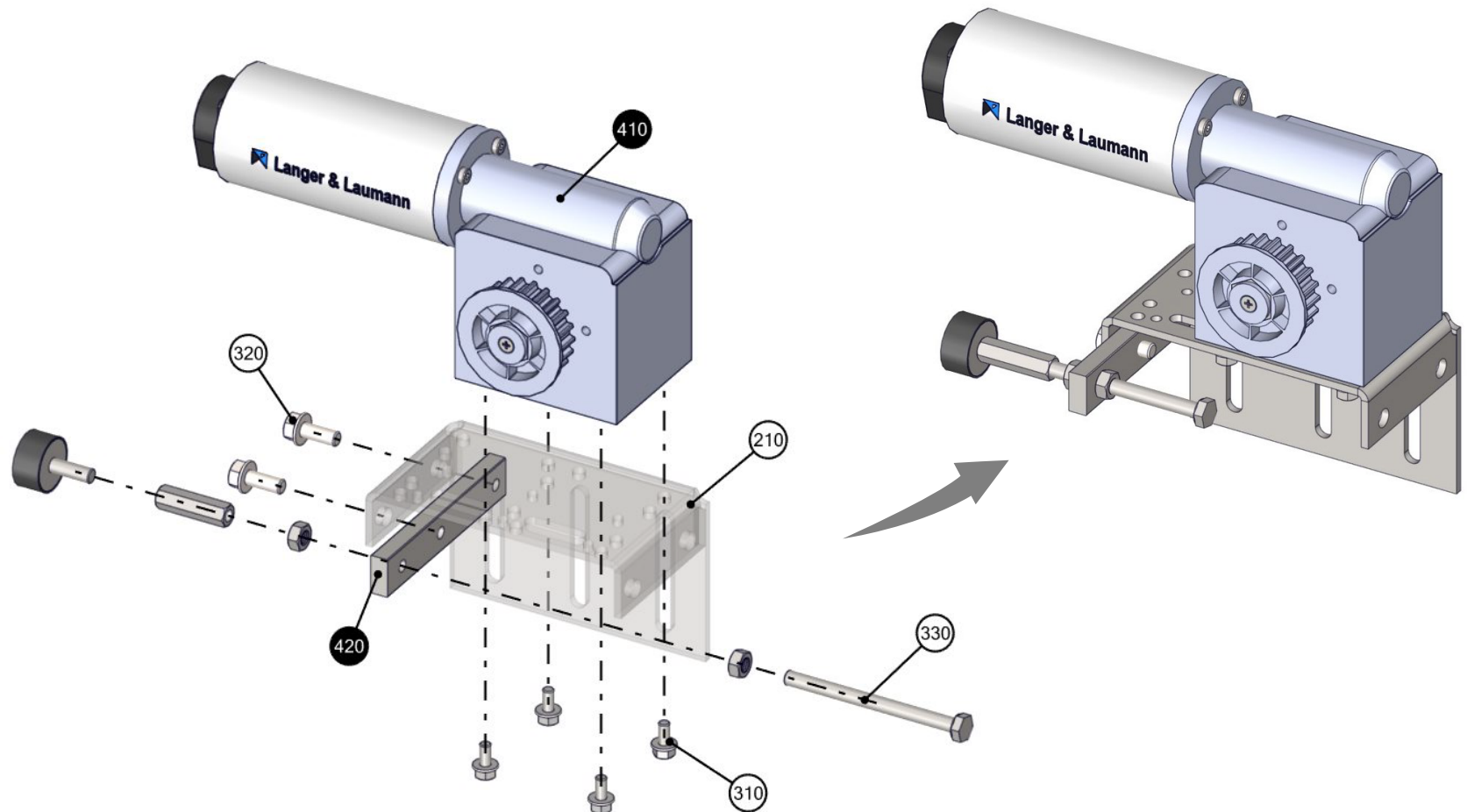




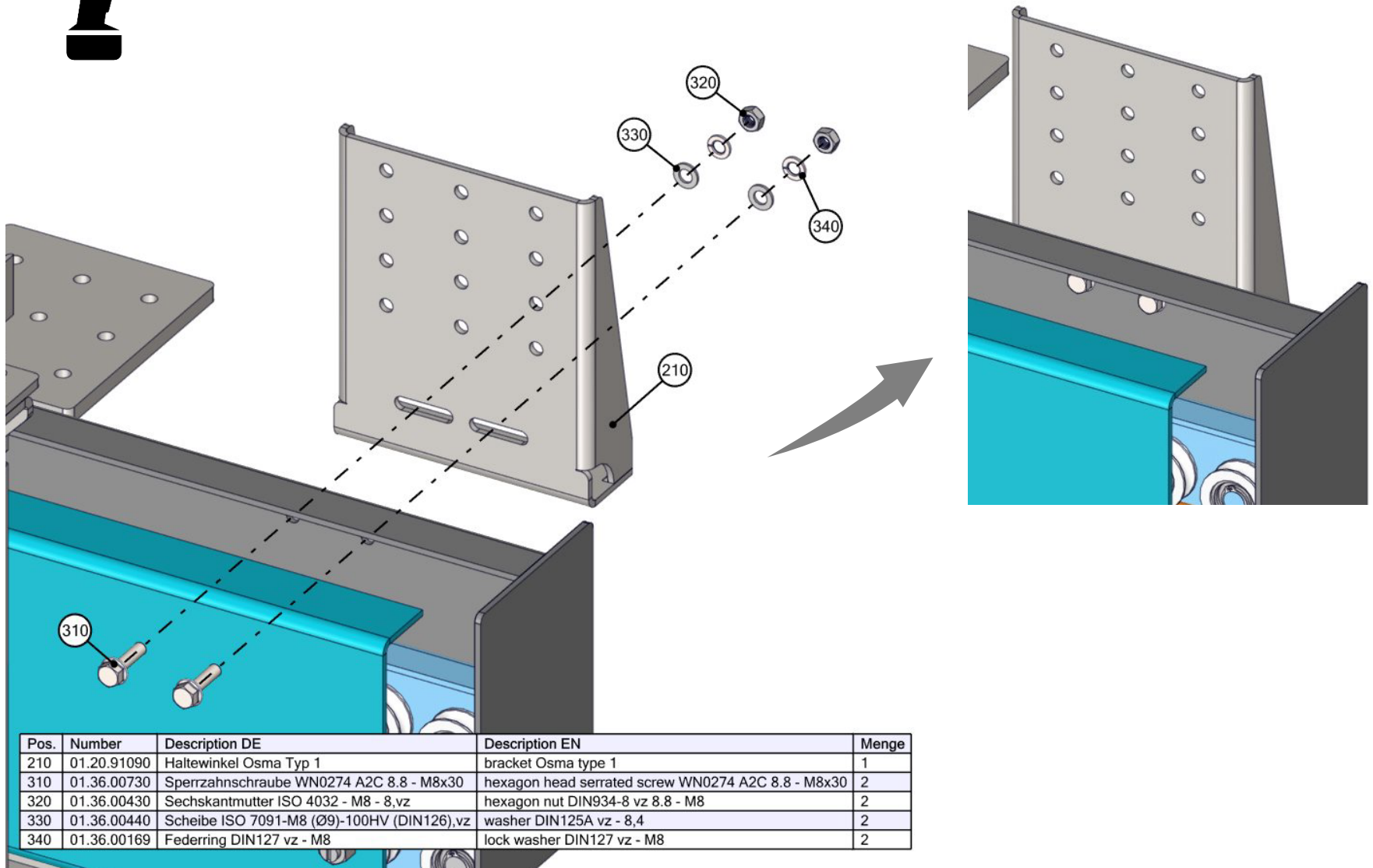
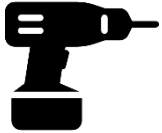


Montage TSG – Assembly of the TSG

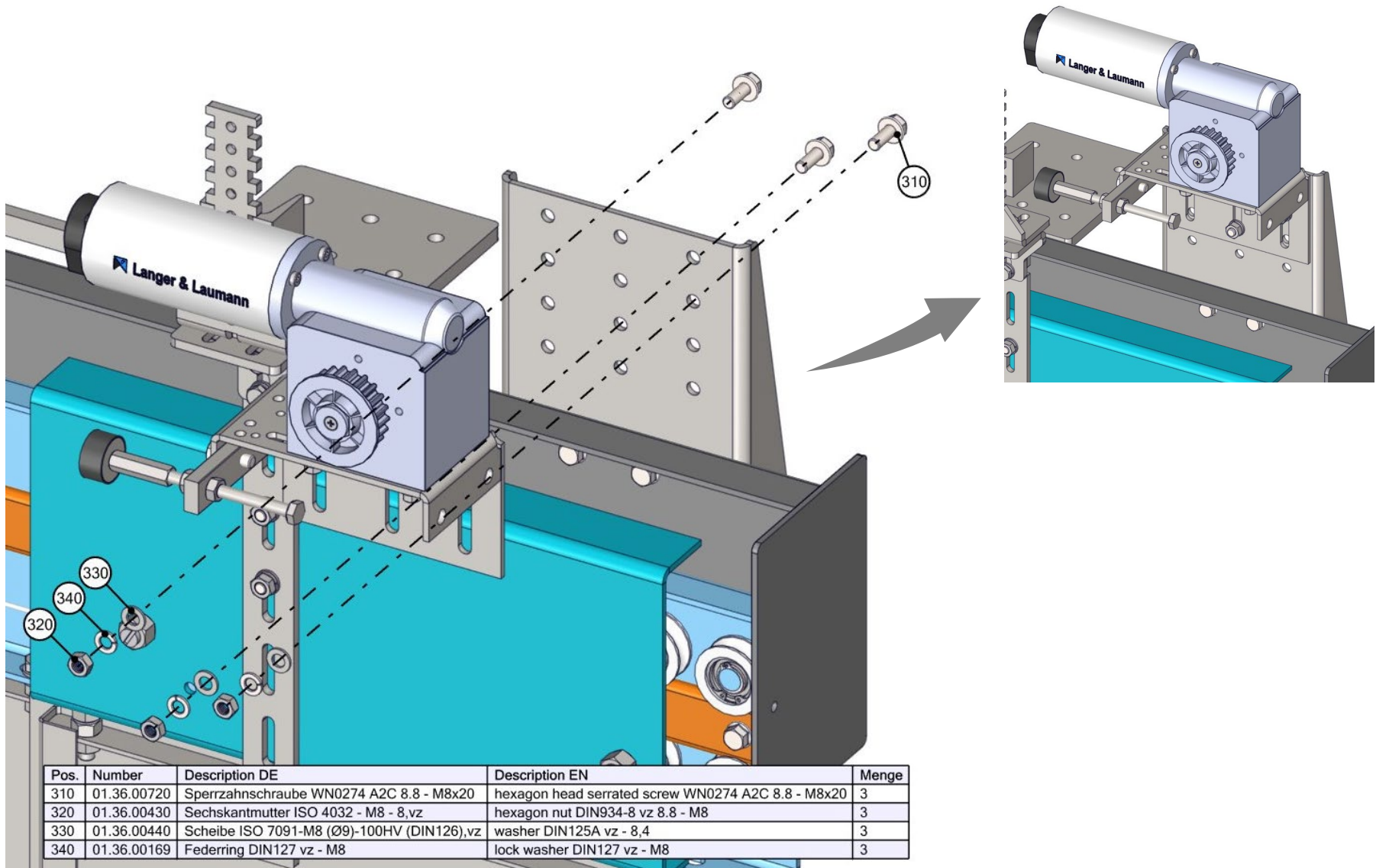




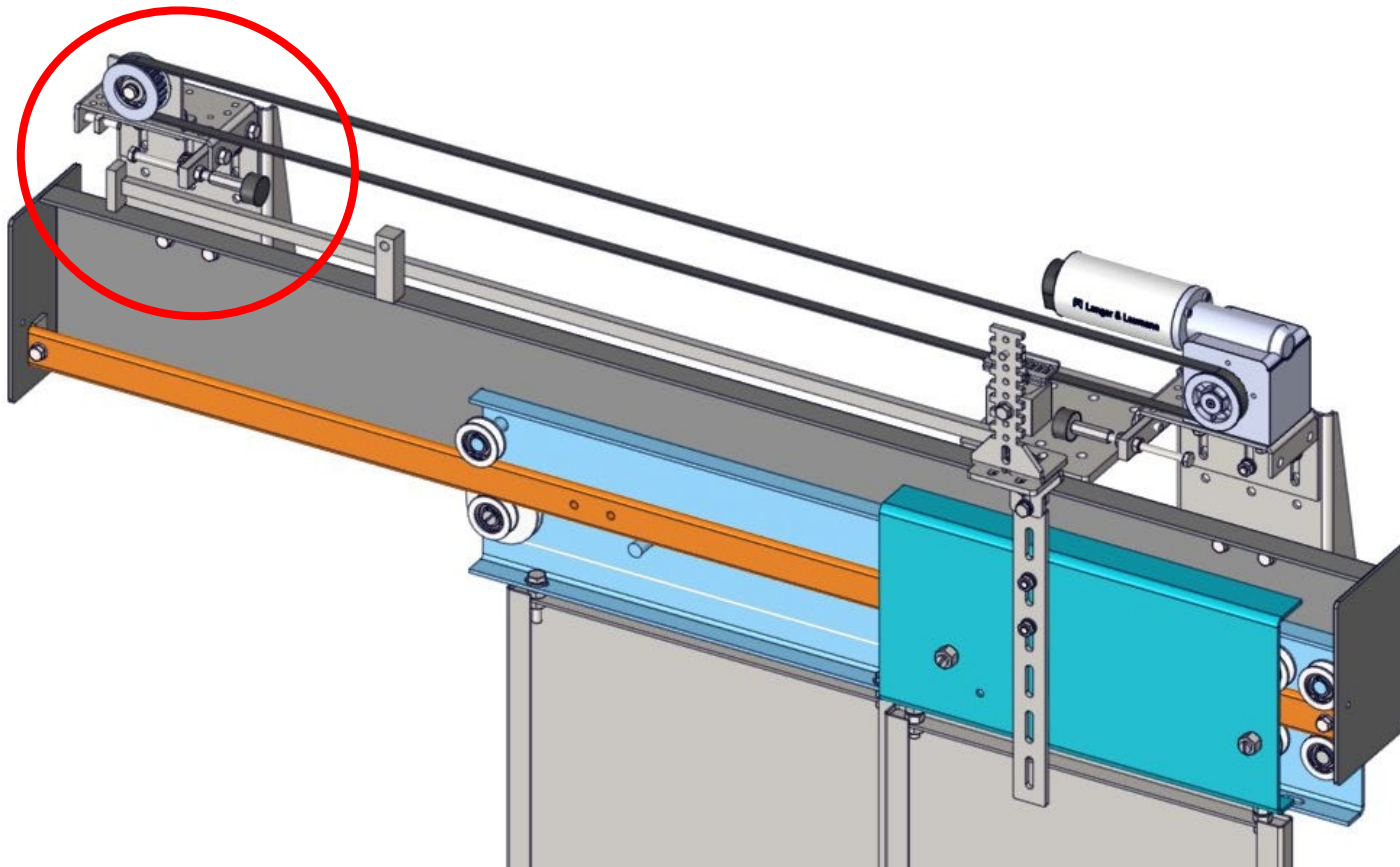
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60040	Kombiwinkel	universal bracket	1
310	01.36.00135	Sperrzahnschraube DIN 6921 M6x12 verz.	hexagon head serrated screw WN0274 A2C 8.8 - M6x12	4
320	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2
330	01.36.00177	Sechskantschraube ISO 4017 - M8 x 100 - 8.8, vz	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x100	1
410	08.20.40000.X1	Motor Gross Links & Getriebe, 24V/4,9A/1:15	motor large left & gearbox, 24V/4,9A/1:15	1
420	01.20.60037	Halterung Puffer Standardversion	bracket buffer, standard version	1

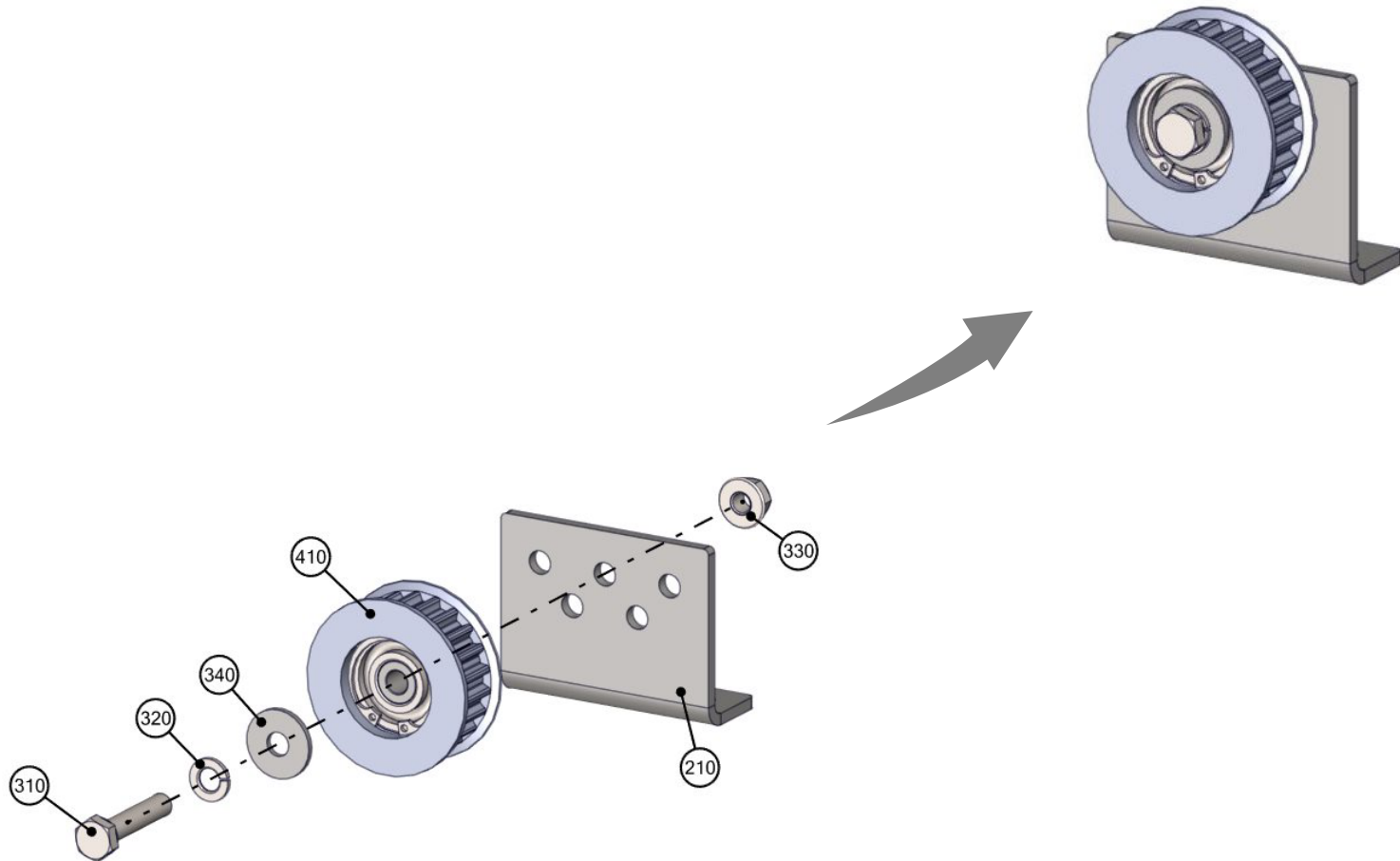


Pos.	Number	Description DE	Description EN	Menge
210	01.20.91090	Haltewinkel Osma Typ 1	bracket Osma type 1	1
310	01.36.00730	Sperrzahnschraube WN0274 A2C 8.8 - M8x30	hexagon head serrated screw WN0274 A2C 8.8 - M8x30	2
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8,vz	hexagon nut DIN934-8 vz 8.8 - M8	2
330	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126),vz	washer DIN125A vz - 8,4	2
340	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	2

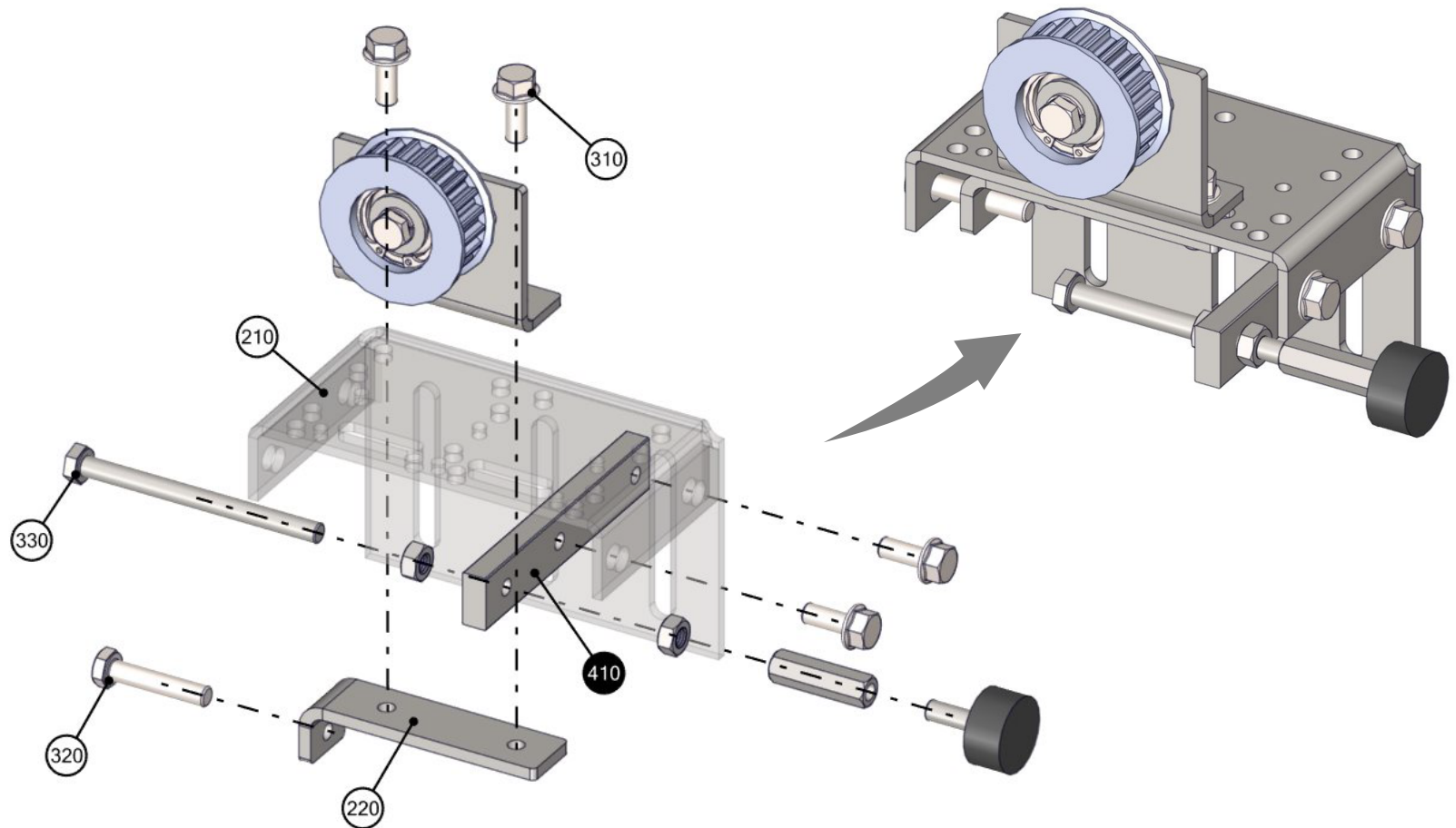


Montage Umlenkrolle – Assembly of the counter roller

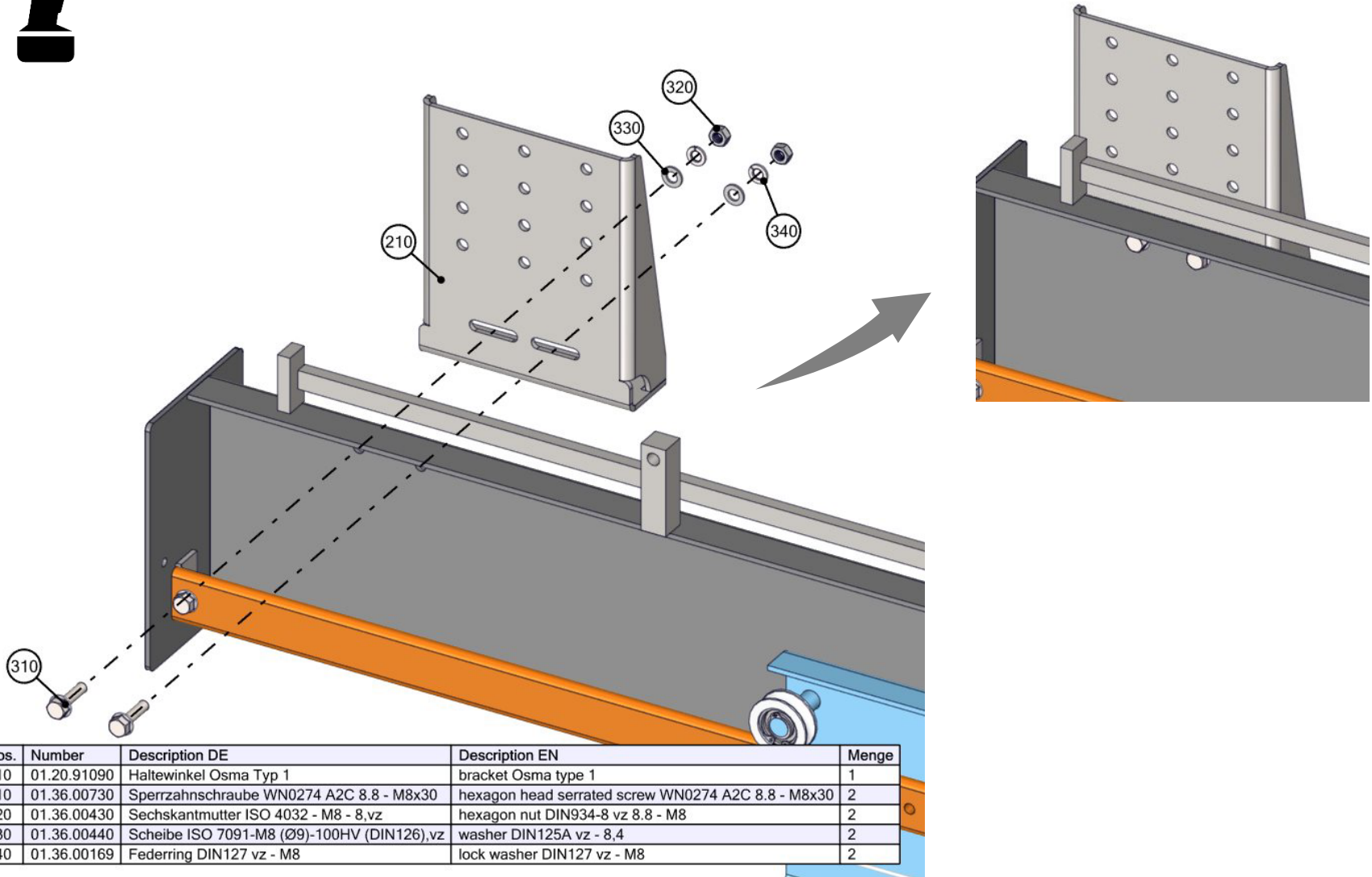
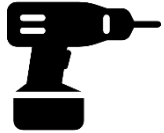


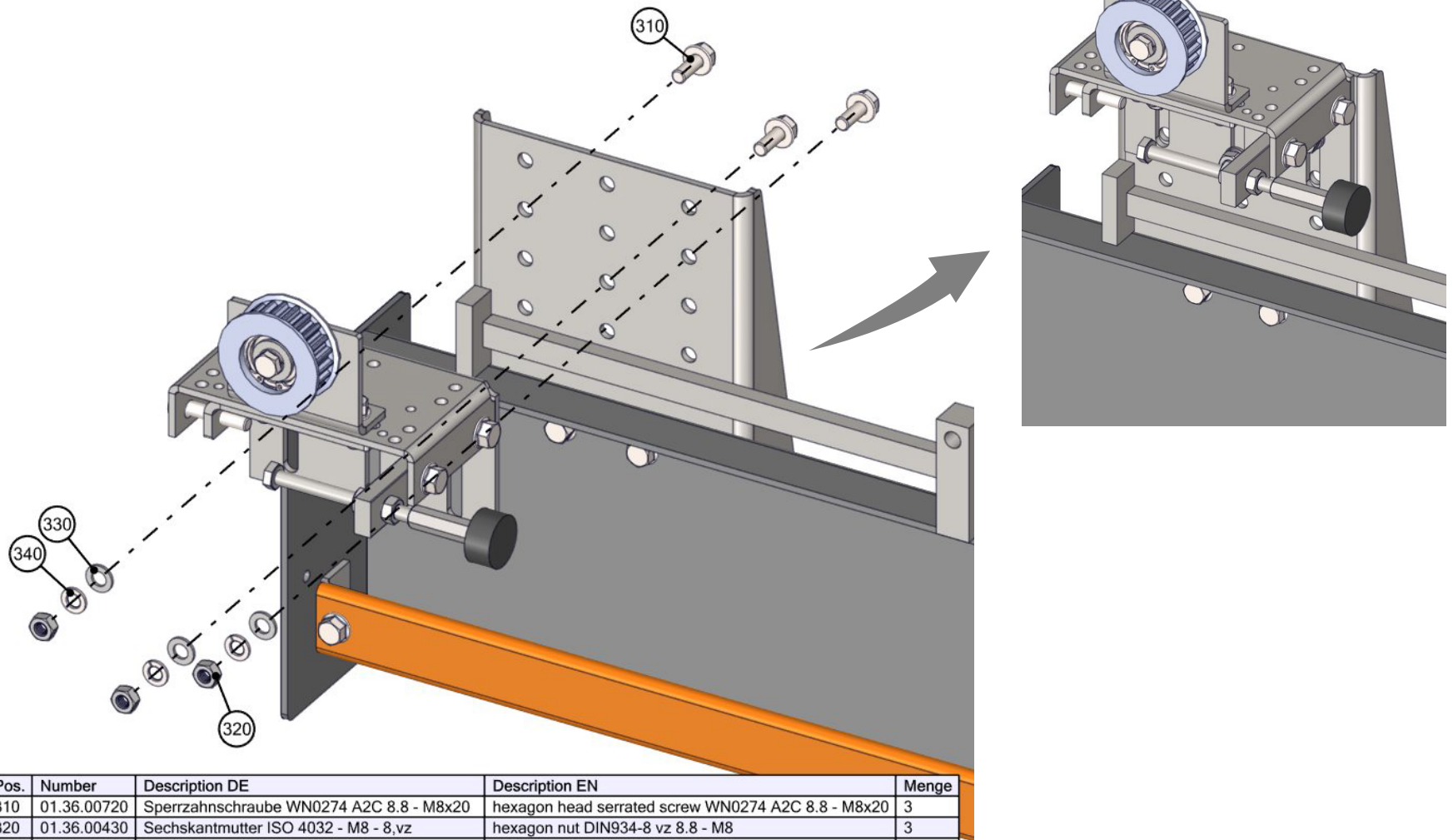


Pos.	Number	Description DE	Description EN	Menge
210	01.20.60013_T1	Halterung Umlenkrolle für Spannstation_T1	TSG bracket for counter roller	1
310	01.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	1
320	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	1
330	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	1
340	01.36.00450	Kotflügelscheibe DIN522 vz - 8,4x20x1,25	wing repair washer DIN522 vz - 8,4x20x1,25	1
410	01.20.60003	TSG Umlenkrad	TSG counter roller	1



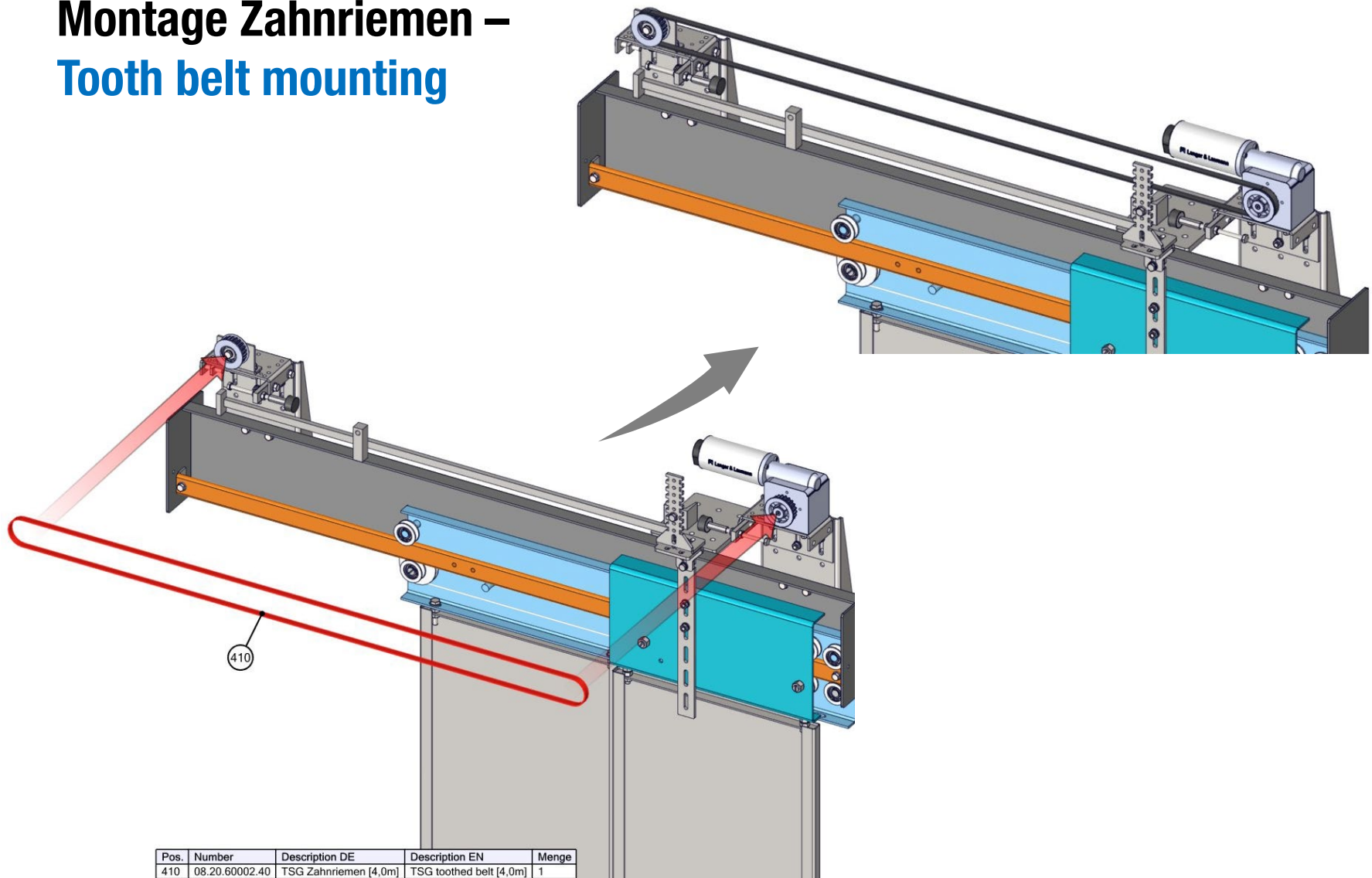
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60040	Kombiwinkel	universal bracket	1
220	01.20.60110	Spannlasche für Spannstation	clamping tab for clamping station, normal execution	1
310	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4
320	01.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	1
330	01.36.00177	Sechskantschraube ISO 4017 - M8 x 100 - 8.8, vz	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x100	1
410	01.20.60030	TSG Anschlagsatz Puffer inkl. Halterung	TSG stopper kit buffer incl. holder	1



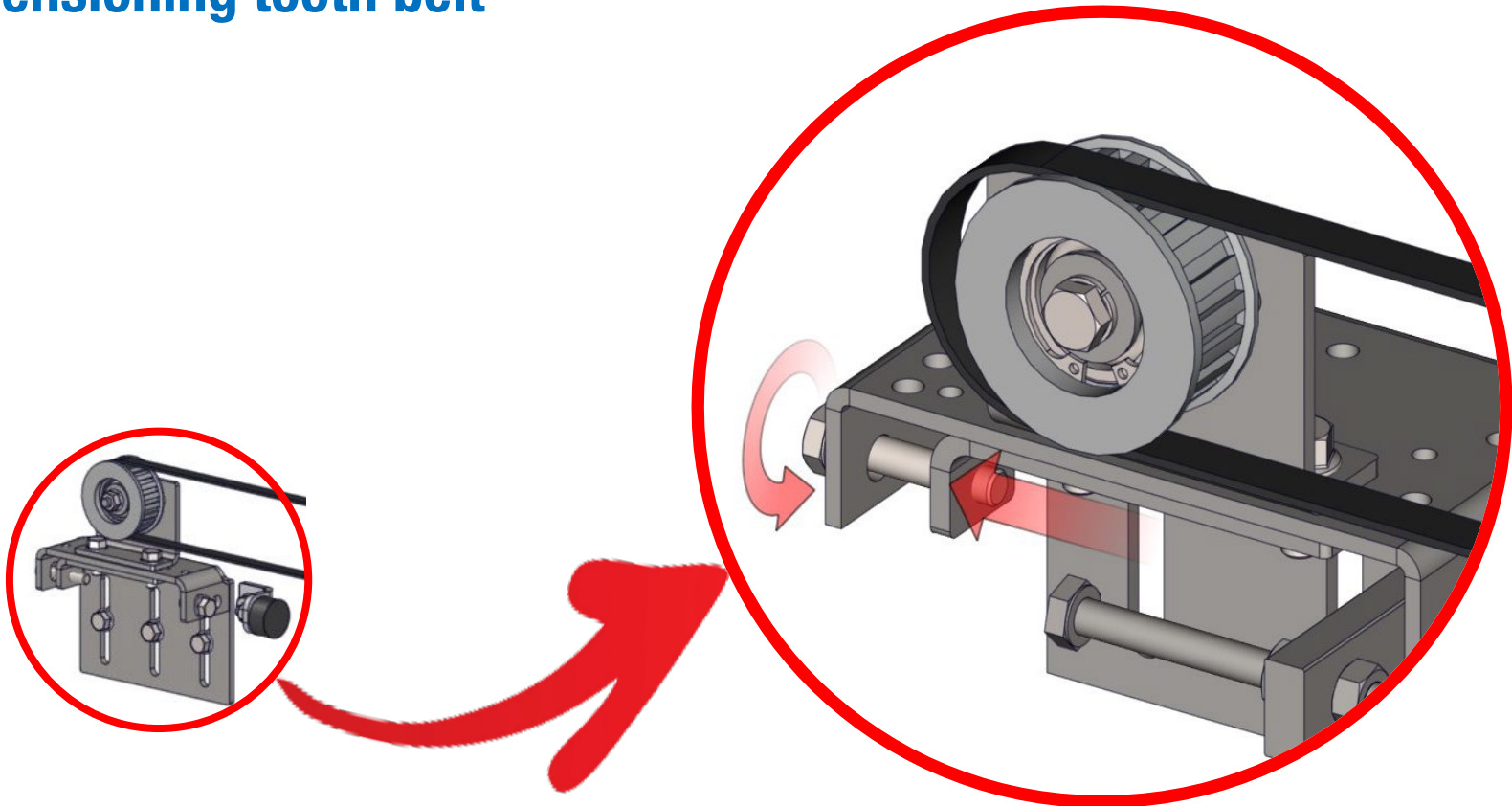


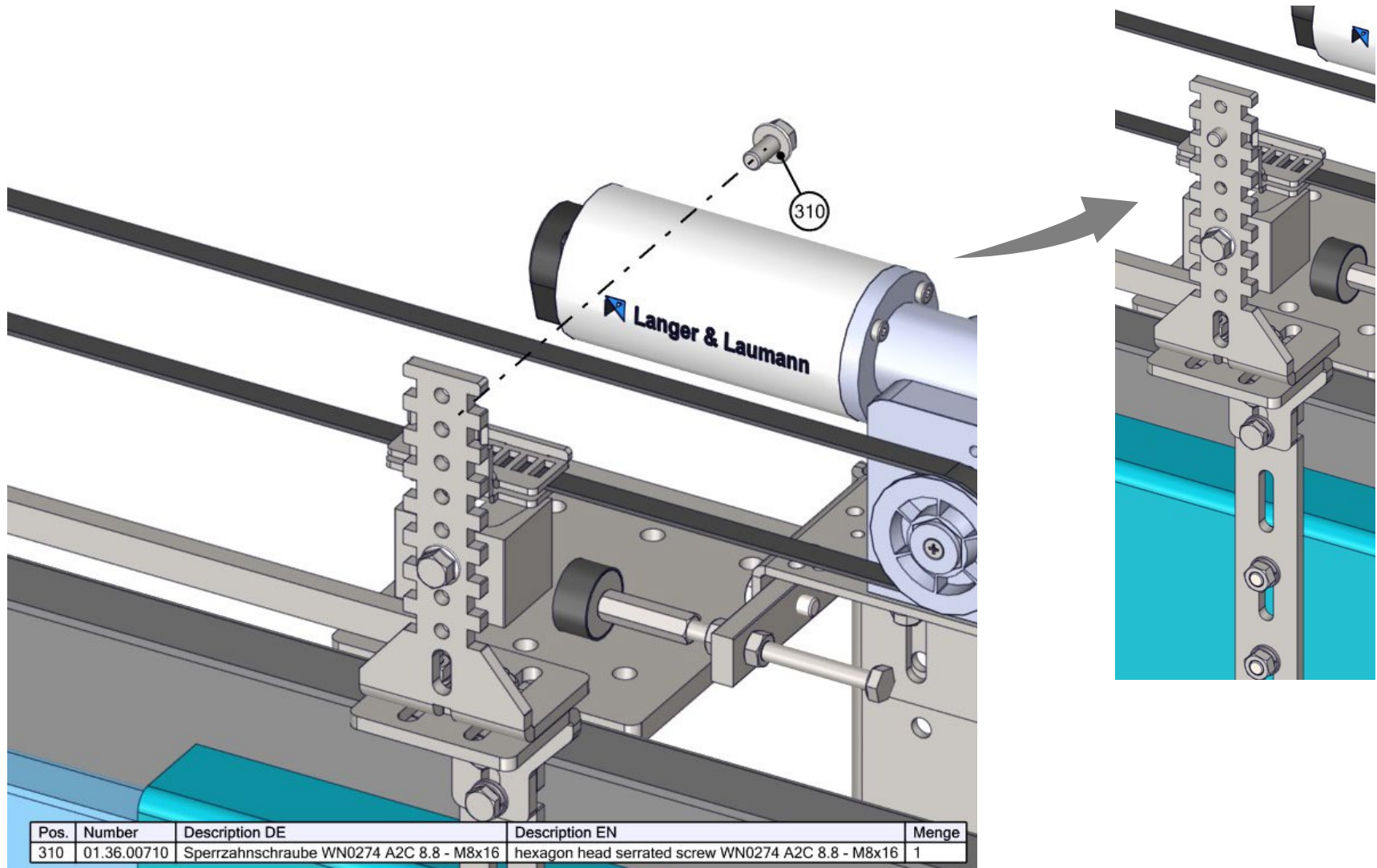
Pos.	Number	Description DE	Description EN	Menge
310	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	3
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8,vz	hexagon nut DIN934-8 vz 8.8 - M8	3
330	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126),vz	washer DIN125A vz - 8,4	3
340	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	3

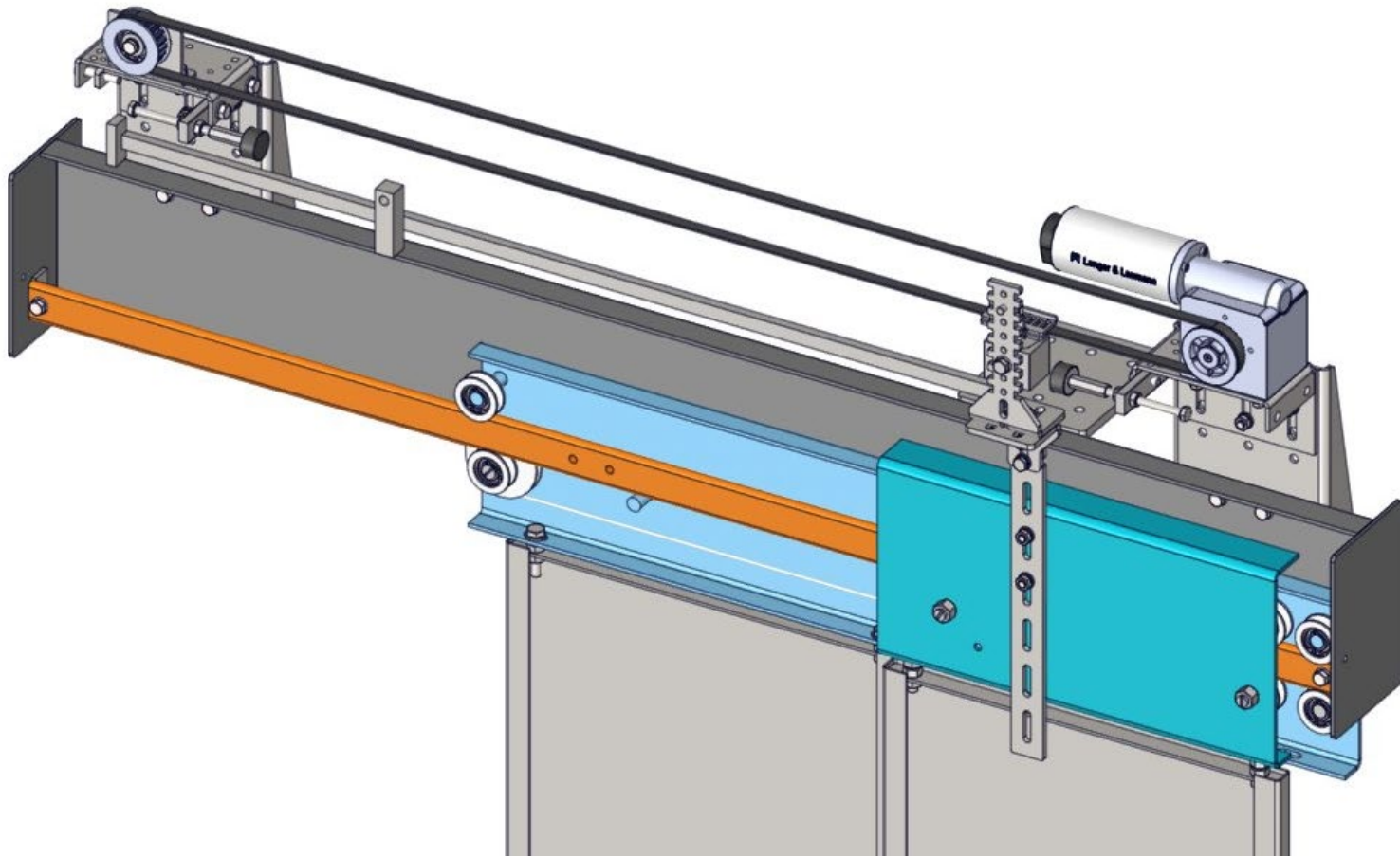
Montage Zahnriemen – Tooth belt mounting



Zahnriemen spannen – Tensioning tooth belt









Langer & Laumann Ingenieurbüro GmbH
Wilmsberger Weg 8
48565 Steinfurt
Germany

Tel.: +49 (2552) 92791 0

support@lul-ing.de
www.lul-ing.de