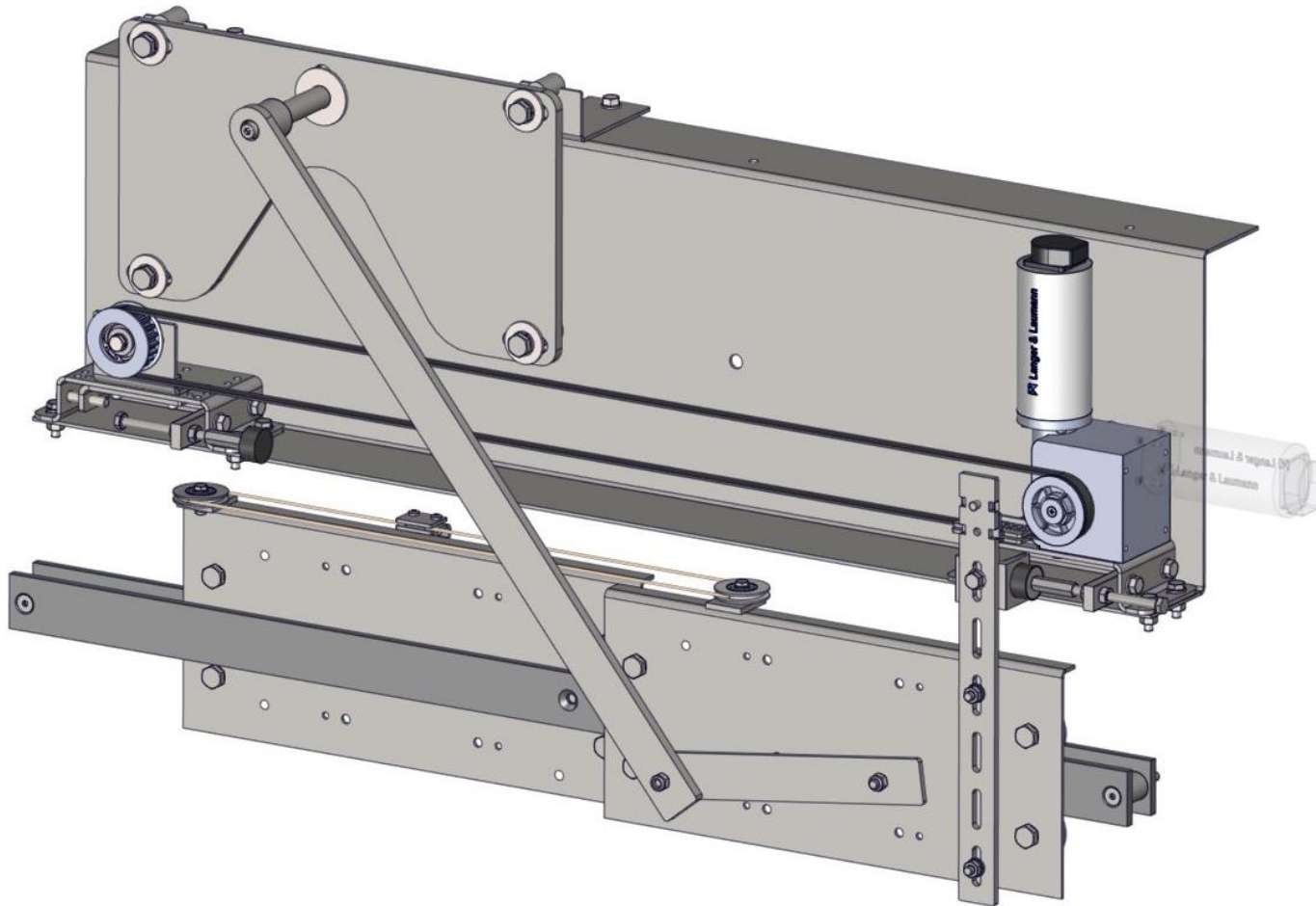


Montageanleitung Assembly Instruction

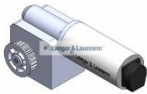
TSG in Otis 6970
TSG in Otis 6970

TSG in Otis 6970 – TSG in Otis 6970



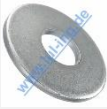
Lieferumfang – scope of delivery



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
	1.20.60060	TSG Kombiwinkel, Ausführung 'Hut', für TSG Motor	TSG universal bracket, version 'hat', for TSG motor	2
	1.20.60030	TSG Anschlagsatz Puffer inkl. Halterung	TSG stopper kit buffer incl. holder	2
	8.20.4001.X1	TSG Antrieb für TSG4xx Links 24V/1:15	TSG drive for TSG 4xx left, 24V/1:15	1
	1.20.60013	TSG Halter für Umlenkrad	TSG bracket for counter roller	1
	1.20.60110	Spannlasche für Spannstation, normale Ausführung	clamping tab for clamping station, normal execution	1
	1.20.60003	TSG Umlenkrad	TSG counter roller	1
	1.20.92220	Adapterplatte für TSG in Otis 6970	Adapter plate for TSG in Otis 6970	1

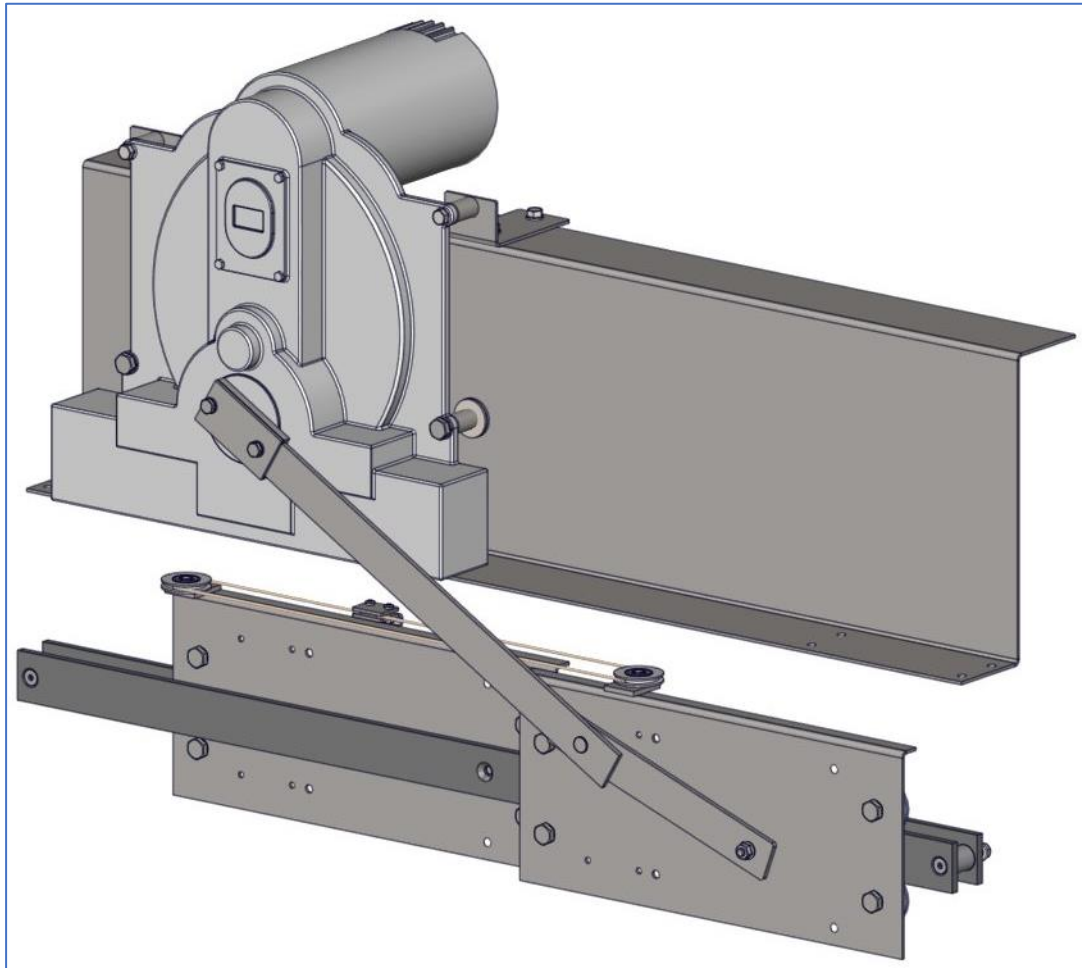
picture	Number	description DE	description EN	quantity
	1.20.92260	Welle mit Innen- bzw. Aussengewinde für TSG in Otis 6970	Shaft with inner and external thread for TSG in Otis 6970	1
	1.20.92230	Umlenkhebel mit Buchse für Welle für TSG in Otis 6970	idler arm with bushing for shaft for TSG in Otis 6970	1
	1.20.92210	Gleitlagerbuchse, wartungsfrei, 23mm Aussen, 20mm Innen	Plain bearing bush, maintenance-free, 23mm outer, 20mm inner	1
	8.20.60002.40	TSG Zahnriemen [4,0m]	TSG toothed belt [4,0m]	1
	1.20.60005	TSG Zahnriemenschloß, Stahl	TSG toothed belt lock, steel	1
	1.20.60004	TSG Türflügelmitnehmer	TSG door panel coupler	1
	1.20.60020	TSG Anschlag für Türflügelmitnehmer	TSG stopper for door coupler	1
	1.36.00138	Sperrzahnschraube WN0274 A2C 8.8 - M6x16	hexagon head serrated screw WN0274 A2C 8.8 - M6x16	4
	1.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	6

picture	Number	description DE	description EN	quantity
	1.36.00176	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x25	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x25	8
	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	19
	1.36.00450	Kotflügelscheibe DIN522 vz - 8,4x20x1,25	wing repair washer DIN522 vz - 8,4x20x1,25	1
	1.36.00501	Sperrzahnmutter, ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	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	8
	1.36.00104	Sechskantschraube ISO4017 vz 8.8 - M12x70	hexagonal bolt ISO4017 vz 8.8 - M12x70	2
	1.36.00131	Sechskantschraube ISO4017 vz 8.8 - M12x30	hexagonal bolt ISO4017 vz 8.8 - M12x30	2

picture	Number	description DE	description EN	quantity
	1.36.00168	Federring DIN127 vz - M12	lock washer DIN127 vz - M12	4
	1.36.00572	Scheibe großer Durchmesser DIN9021 vz - 13	washer with large outside diameter DIN9021 vz - 13	4
	1.36.00152	Sechskantmutter DIN934-8 vz 8.8 - M16	hexagon nut DIN934-8 vz 8.8 - M16	1
	1.36.00167	Federring DIN127 vz - M16	lock washer DIN127 vz - M16	1
	1.36.00609	Zylinderschraube ISO4762/DIN912 Innensechskant vz 8.8 -	hexagon socket head cap screw ISO4762/DIN912 vz 8.8 - M8x16	1
	1.36.00135	Sperrzahnschraube WN0274 A2C 8.8 - M6x12	hexagon head serrated screw WN0274 A2C 8.8 - M6x12	1
	1.36.00710	Sperrzahnschraube WN0274 A2C 8.8 - M8x16	hexagon head serrated screw WN0274 A2C 8.8 - M8x16	2
	1.36.02213	Senkkopfschraube mit Innensechskant DIN7991 vz 8.8 - M8x25	countersunk head screw w.recessed head DIN7991 vz8.8 - M8x25	2
	8.20.13390	Schraubentüte für Otis 6970	screw bag for Otis 6970	1

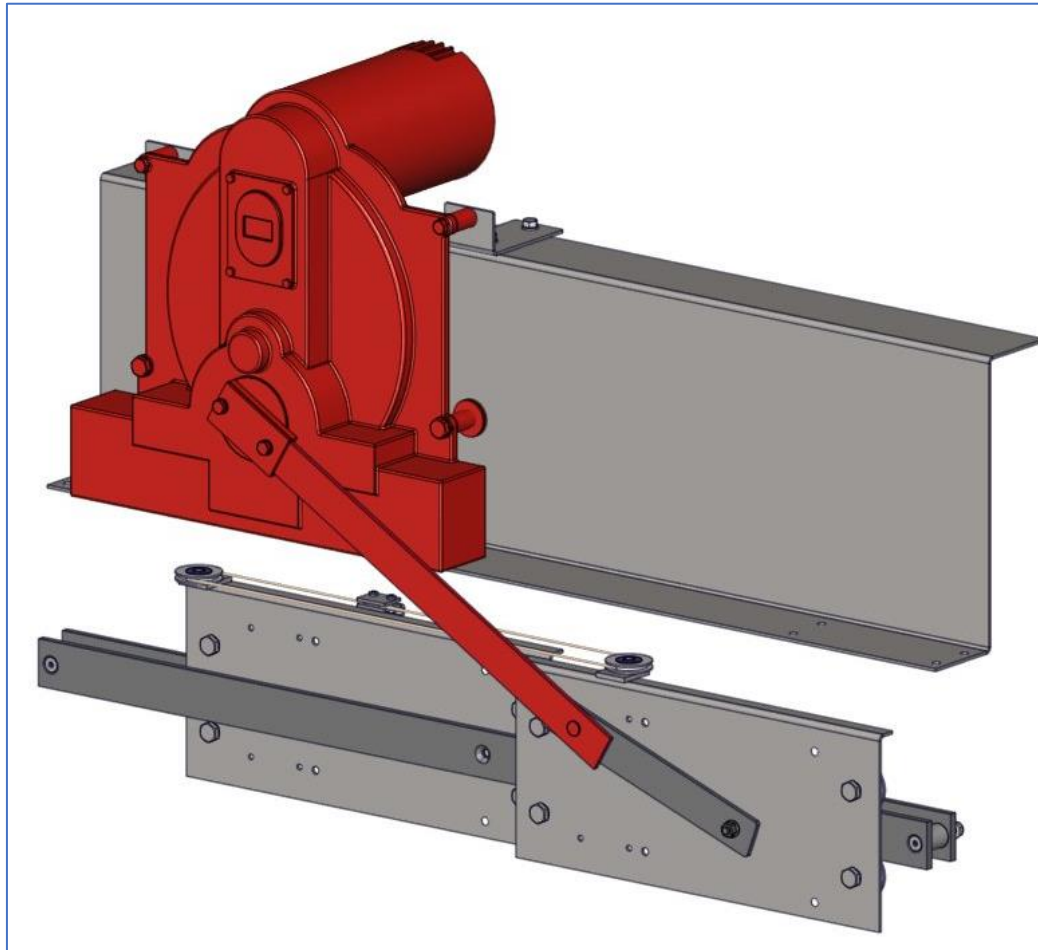
Vor Umbau – before conversion

TL

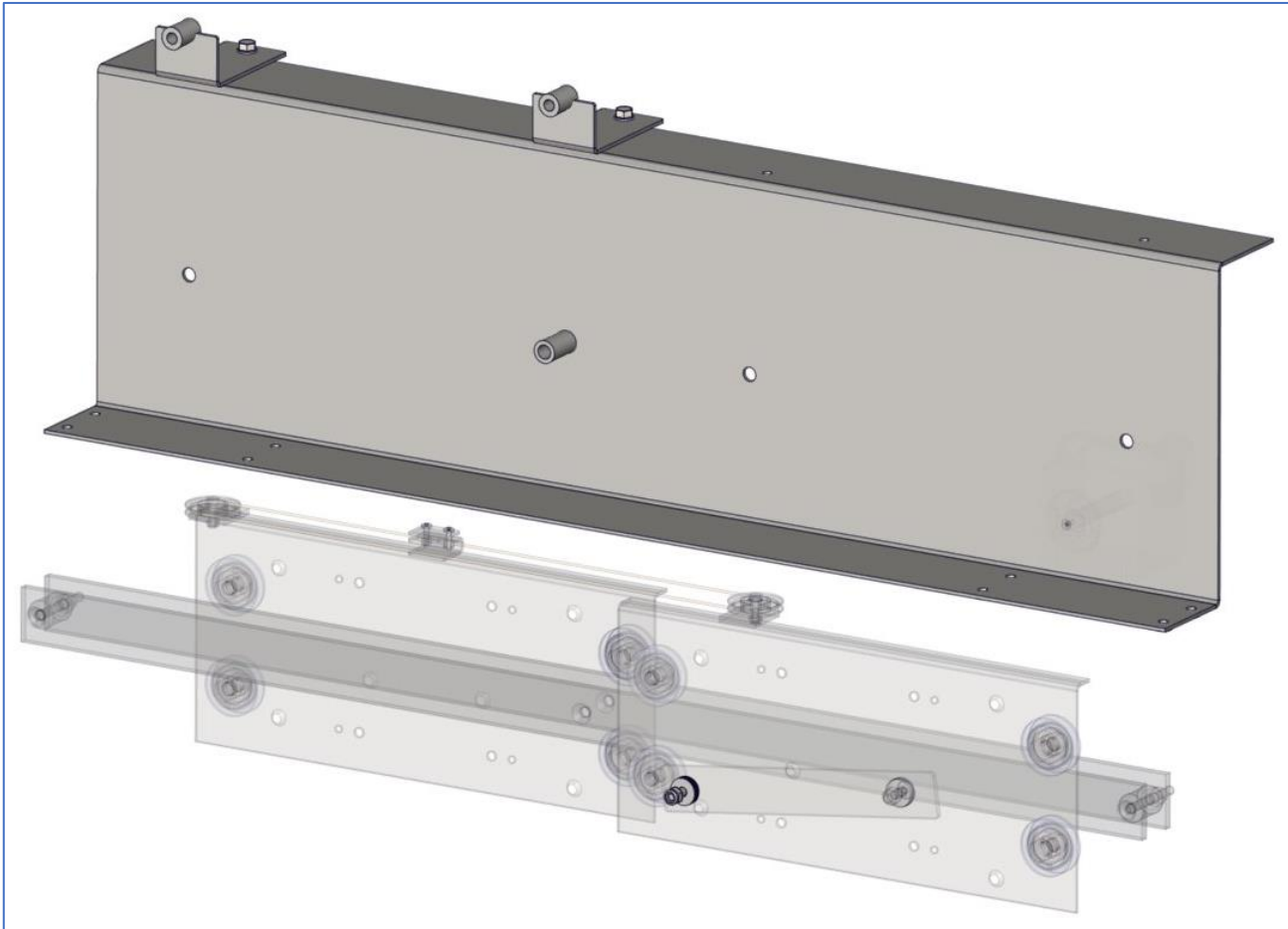


TR spiegelbildlich –
TR mirrored

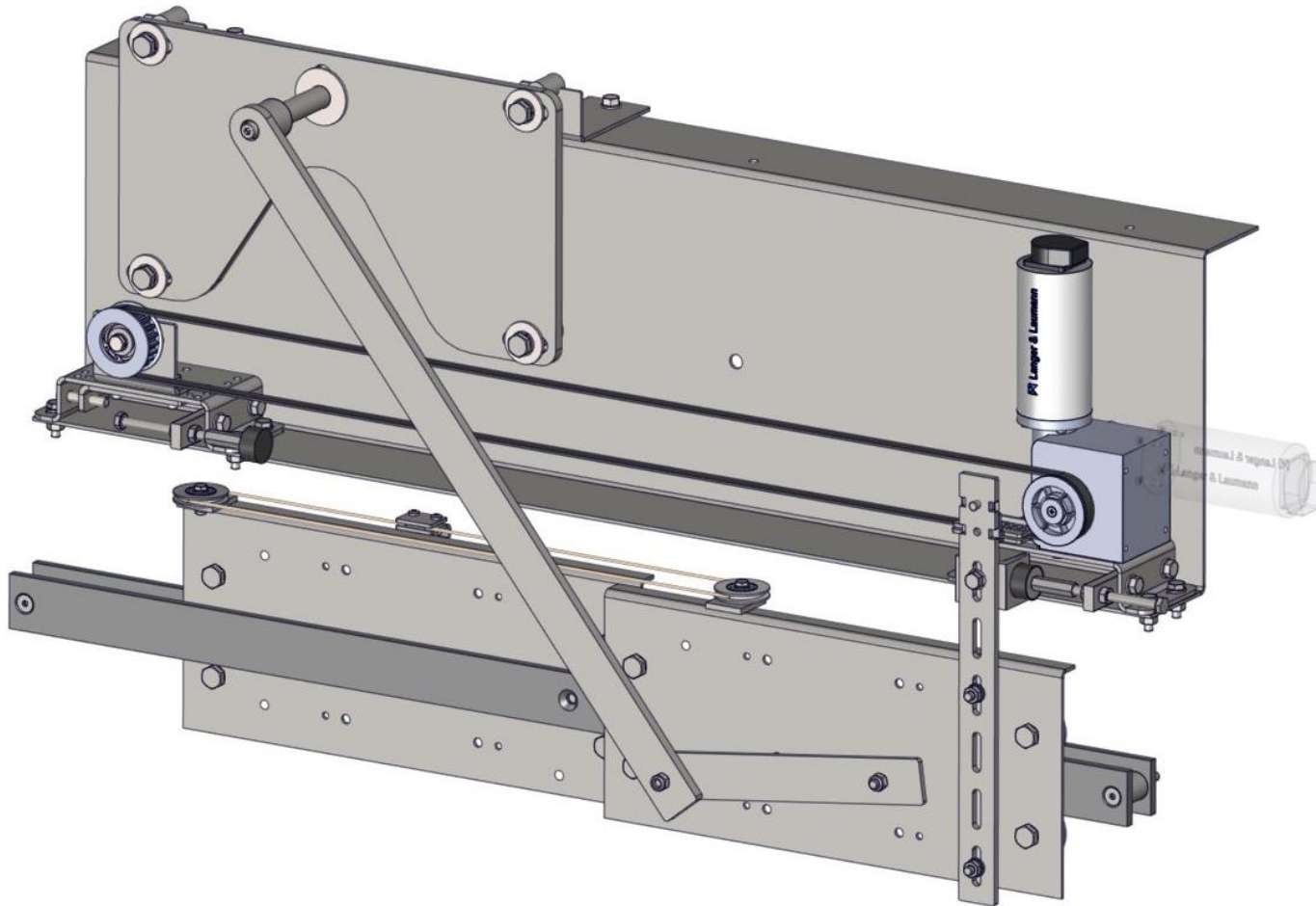
Vor Umbau entfernen –
remove before conversion

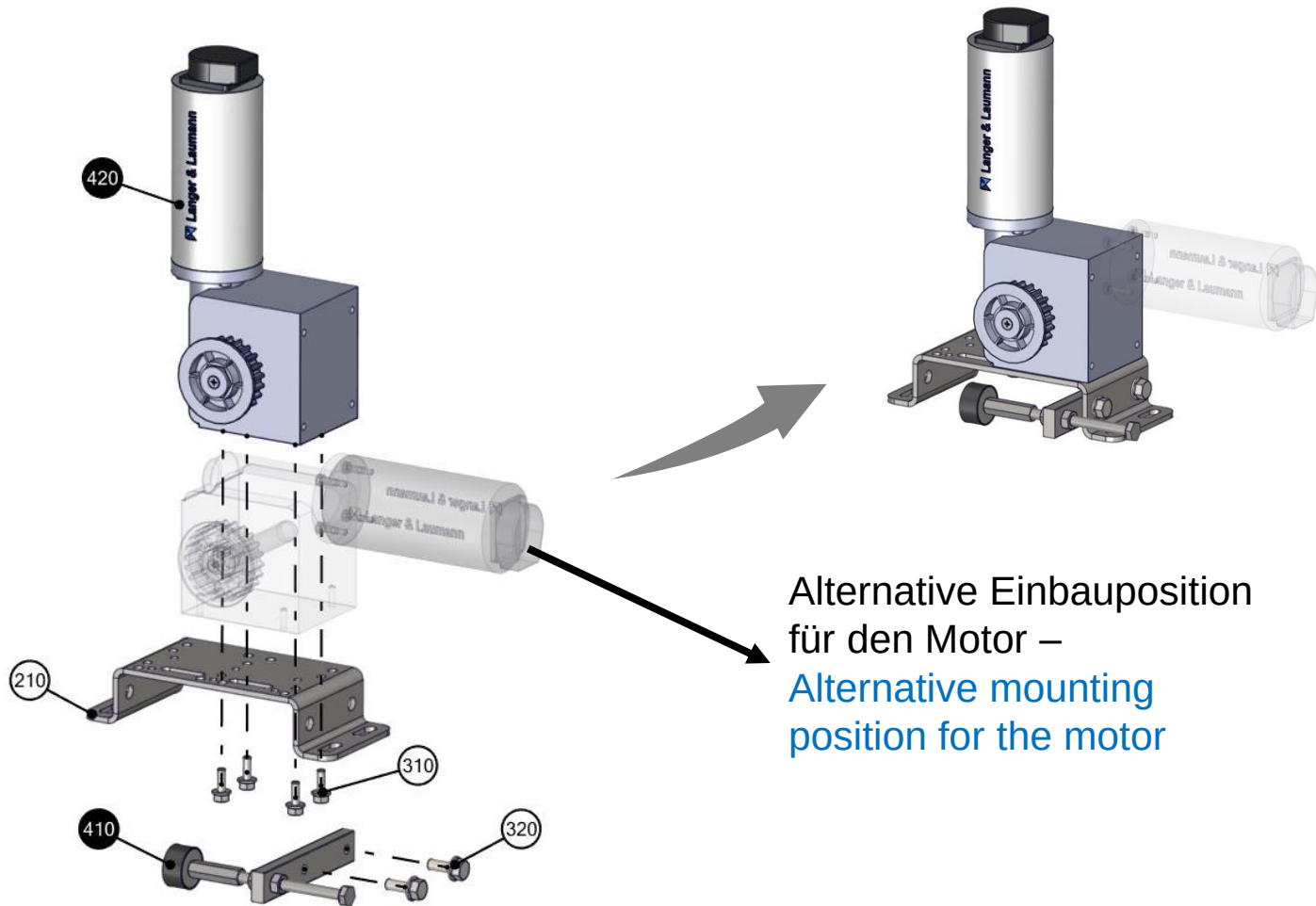


Nach Demontage – after disassembly

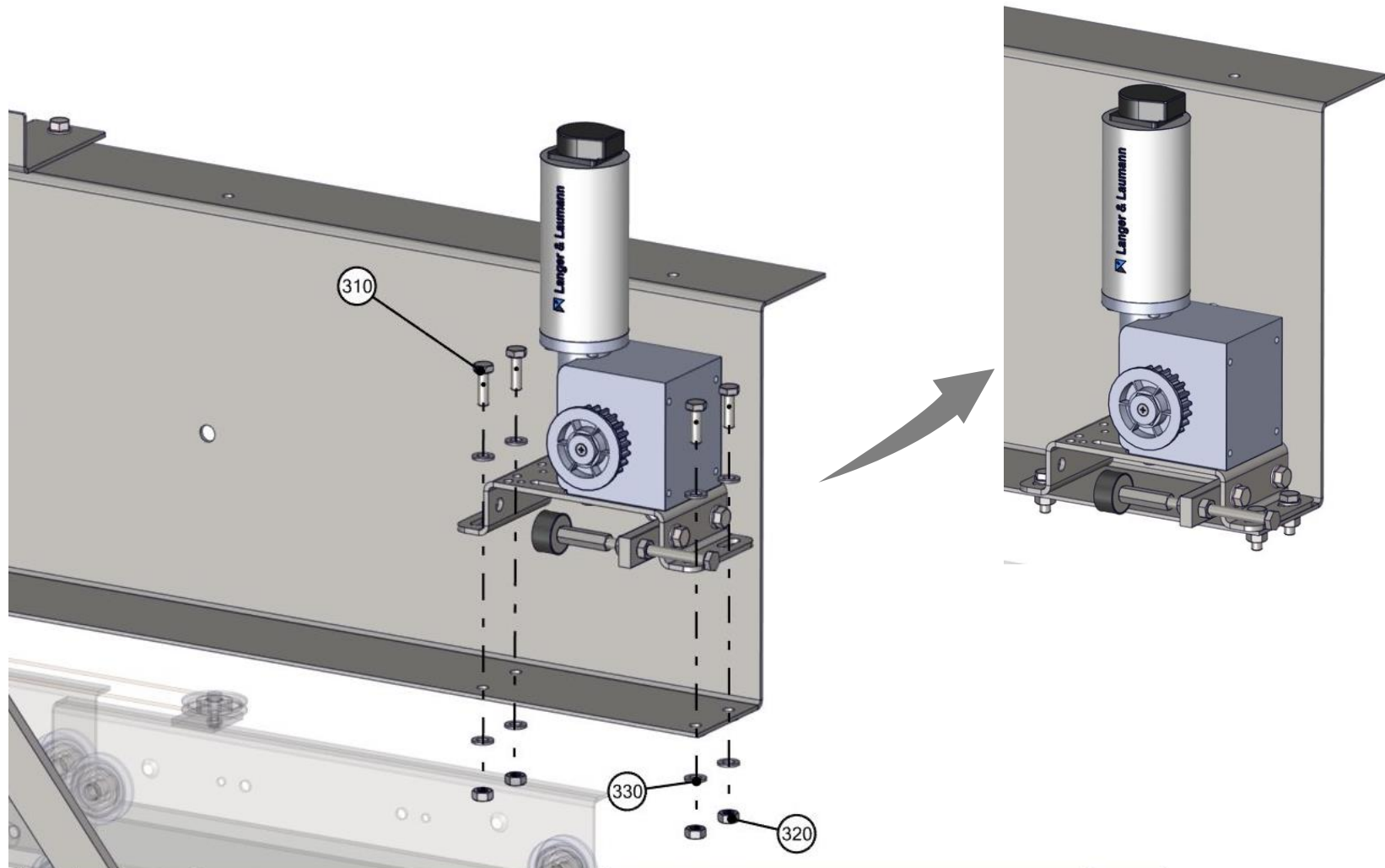


Montage TSG und Umlenkrollen – assembly of TSG and pulleys



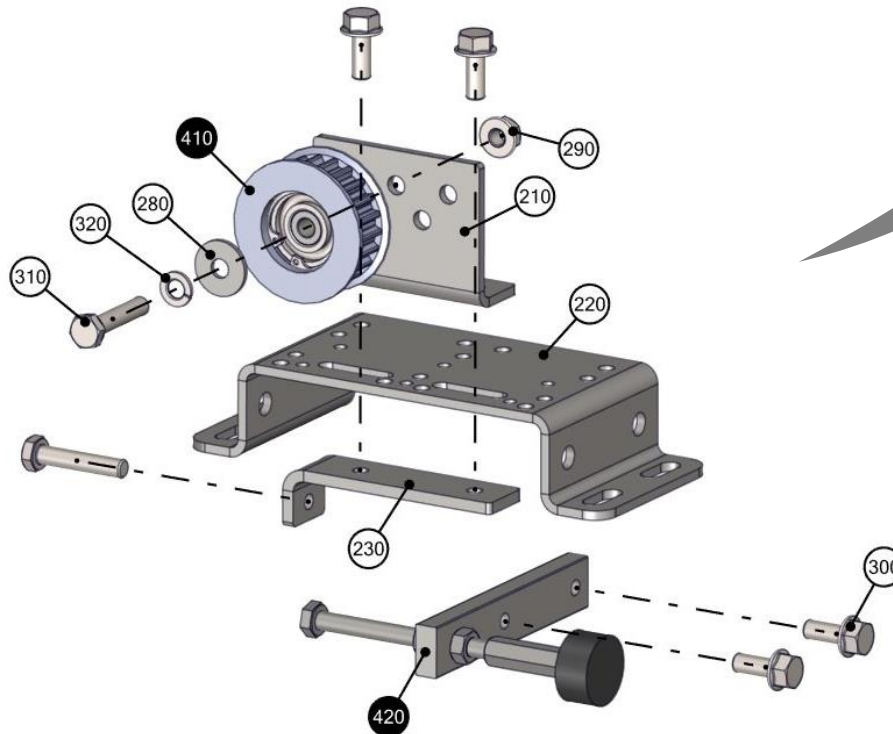


Pos.	Number	Description DE	Description EN	Menge
210	01.20.60060	TSG Kombiwinkel, Ausführung "Hut", für TSG Motor oder Umlenkrad	TSG universal bracket, version "hat"	1
310	01.36.00138	Sperrzahnschraube WN0274 A2C 8.8 - M6x16	hexagon head serrated screw WN0274 A2C 8.8 - M6x16	4
320	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	2
410	01.20.60030	TSG Anschlagsatz Puffer inkl. Halterung	TSG stopper kit buffer incl. holder	1
420	08.20.40001.X1	Motor Gross Rechts Getriebe, 24V/4,9A/1:15	motor large right & gearbox, 24V/4.9A/1:15	1

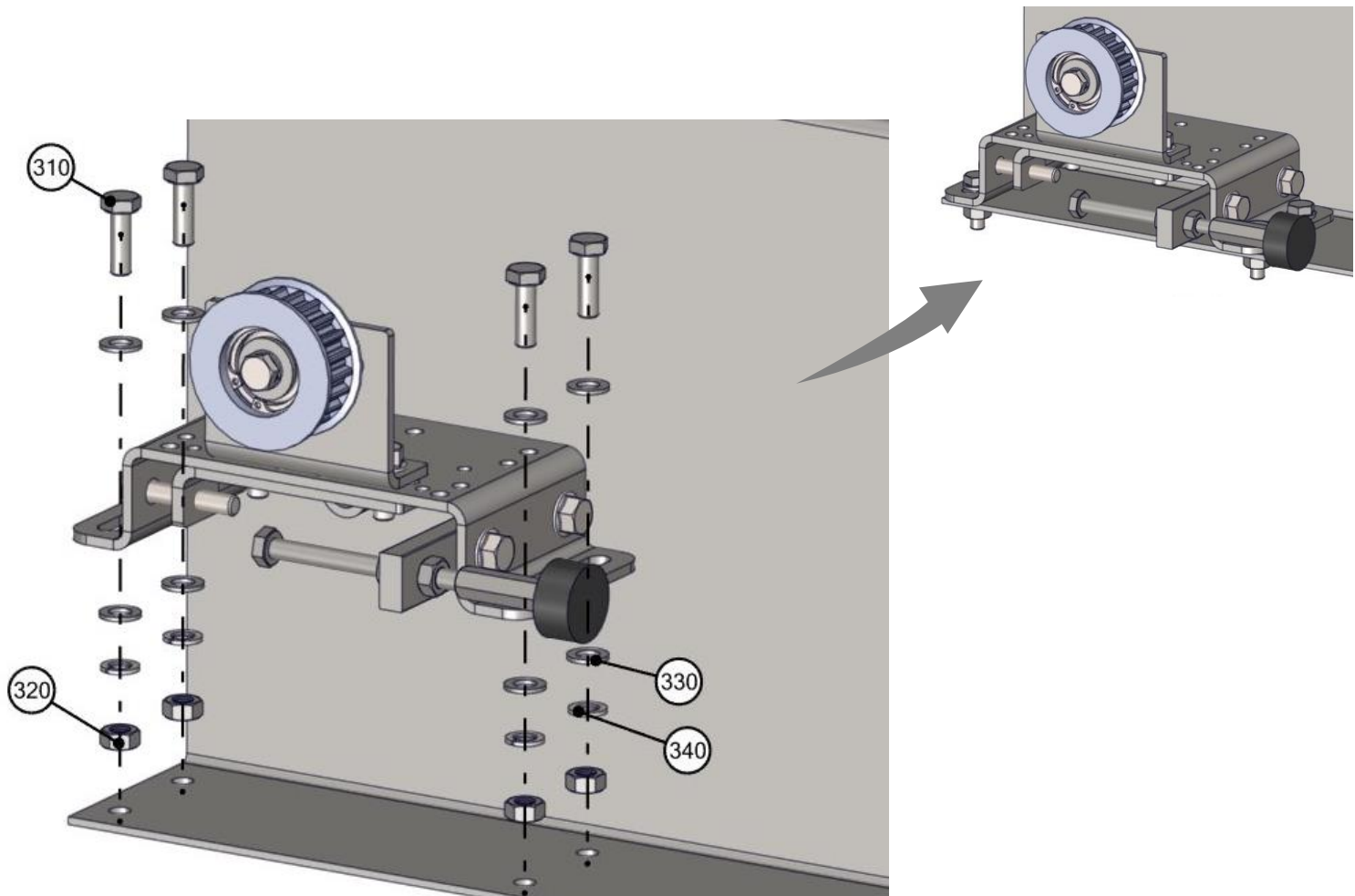


Pos.	Number	Description DE	Description EN	Menge
310	01.36.00176	Sechskantschraube ISO 4017 - M8x25 - 8.8, vz	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x25	4
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8,vz	hexagon nut DIN934-8 vz 8.8 - M8	4
330	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV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

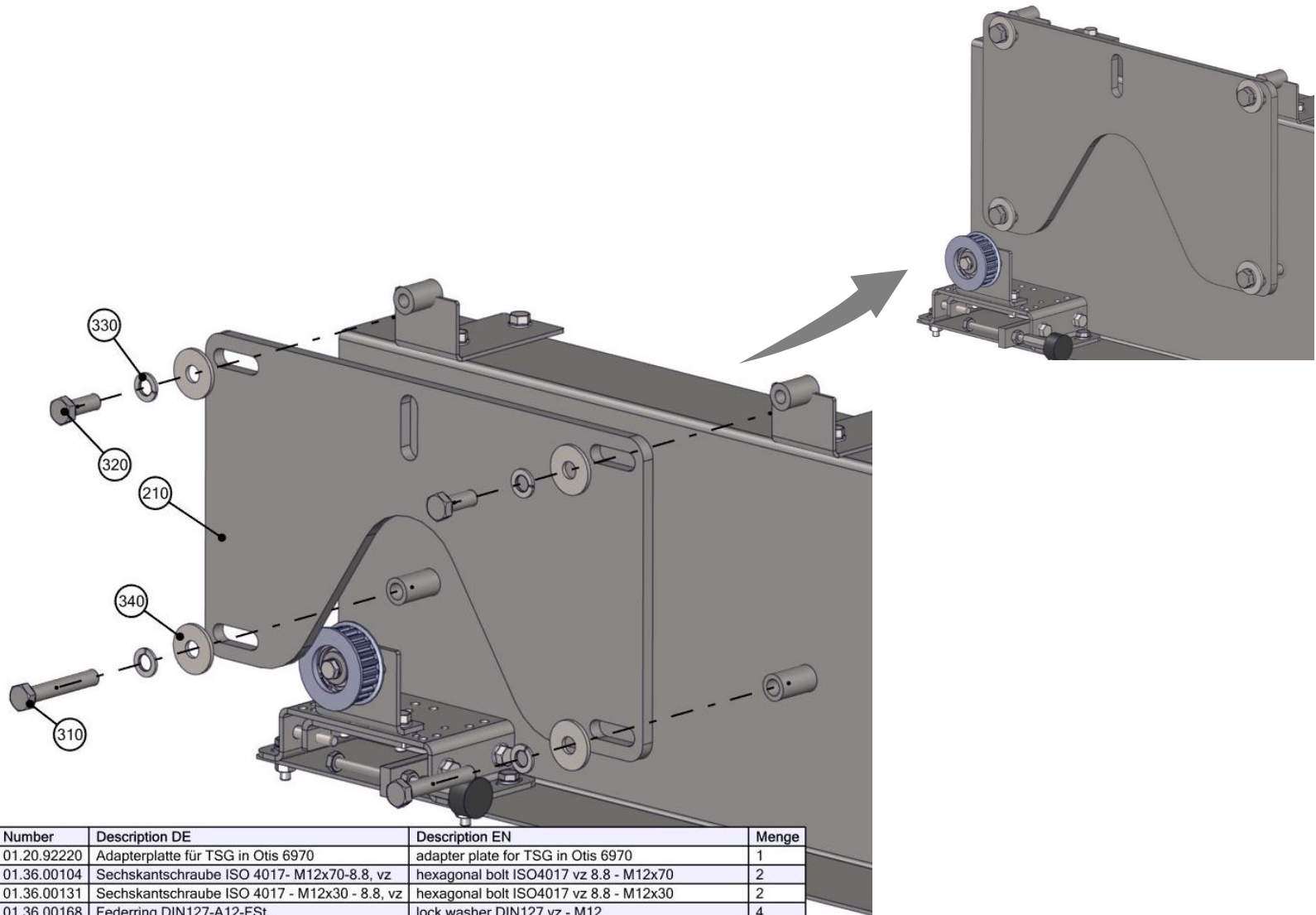
Montage Umlenkrolle – assembly of TSG and pulleys



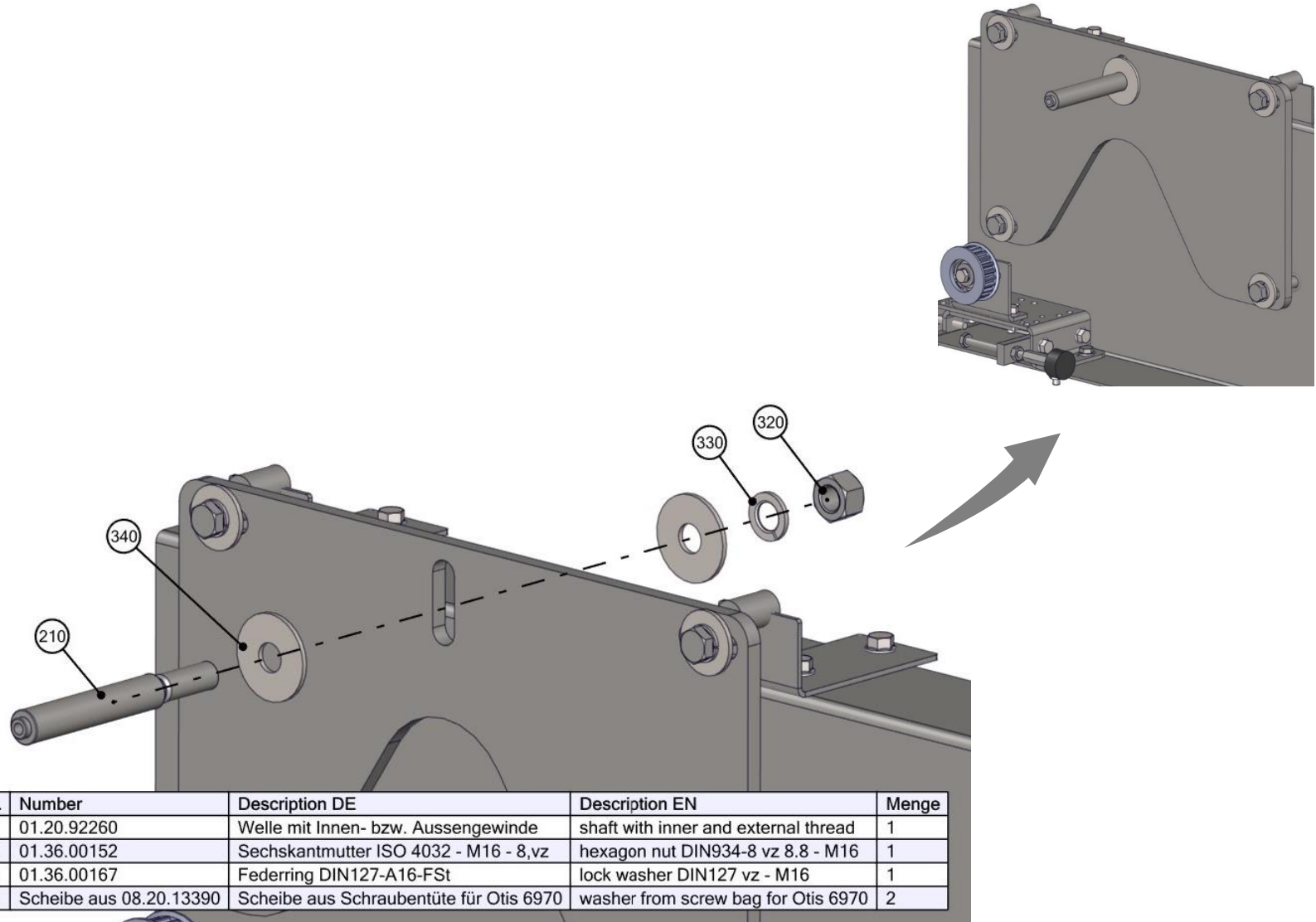
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60013 T1	Halterung Umlenkrolle für Spannstation T1	TSG bracket for counter roller	1
220	01.20.60060	TSG Kombiwinkel, Ausführung "Hut", für TSG Motor oder Umlenkrolle	TSG universal bracket, version "hat"	1
230	01.20.60110	Spannlasche für Spannstation	clamping tab for clamping station, normal execution	1
280	01.36.00450	Kotflügelscheibe DIN522 vz - 8,4x20x1,25	wing repair washer DIN522 vz - 8,4x20x1,25	1
290	01.36.00501	Sperrzahnmutter ähnlich DIN6923 vz - M8	serrated locking nut, similar to DIN6923 vz - M8	1
300	01.36.00720	Sperrzahnschraube WN0274 A2C 8.8 - M8x20	hexagon head serrated screw WN0274 A2C 8.8 - M8x20	4
310	01.36.00115	Sechskantschraube Vollgewinde DIN933 vz 8.8 - M8x40	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x40	2
320	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	1
410	01.20.60003	Tüte Umlenkrolle	TSG counter roller	1
420	01.20.60030	TSG Anschlägsatz Puffer inkl. Halterung	TSG stopper kit buffer incl. holder	1

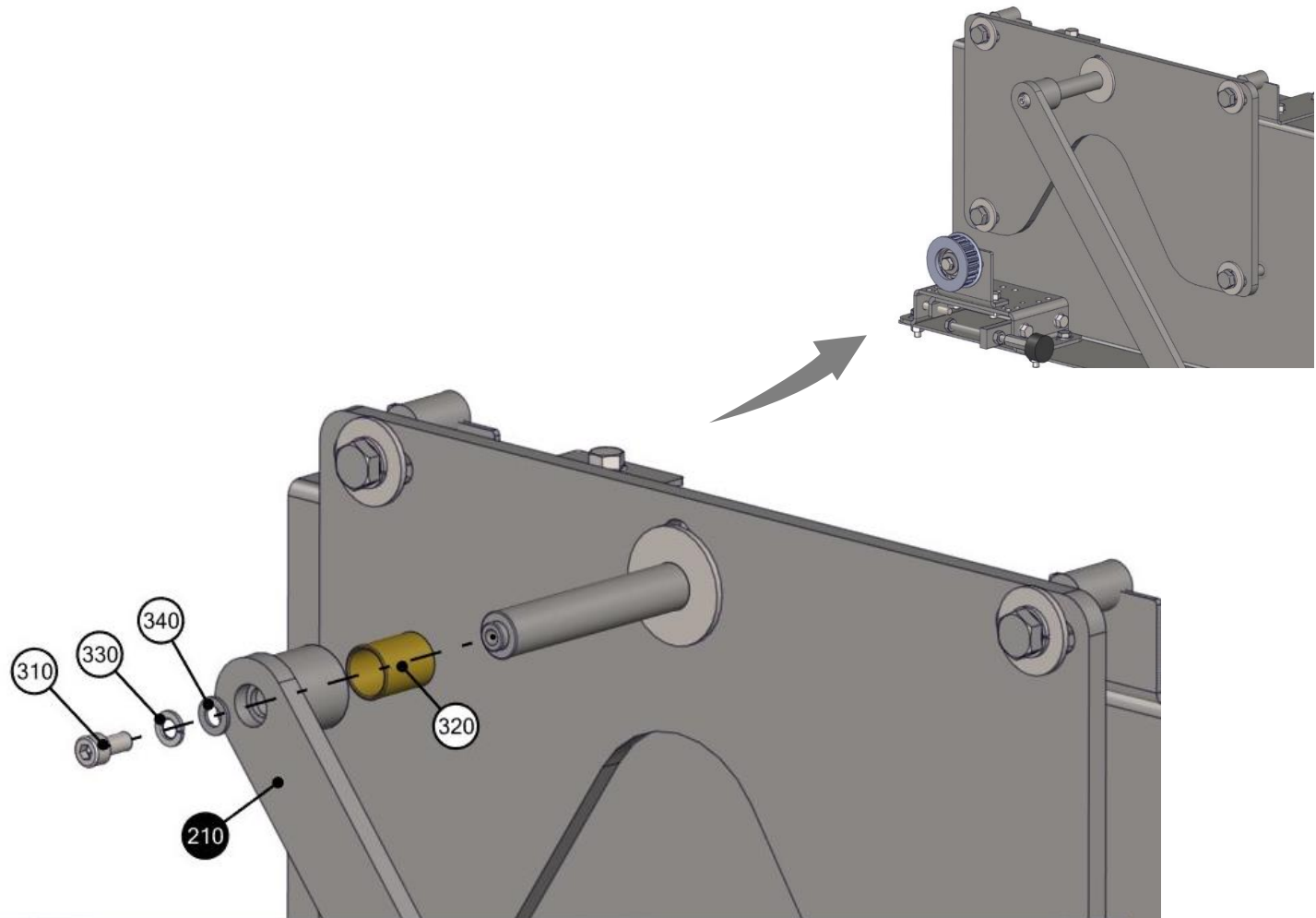


Pos.	Number	Description DE	Description EN	Menge
310	01.36.00176	Sechskantschraube ISO 4017 - M8x25 - 8.8, vz	hexagonal bolt, thread up to head DIN933 vz 8.8 - M8x25	4
320	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8, vz	hexagon nut DIN934-8 vz 8.8 - M8	4
330	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV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

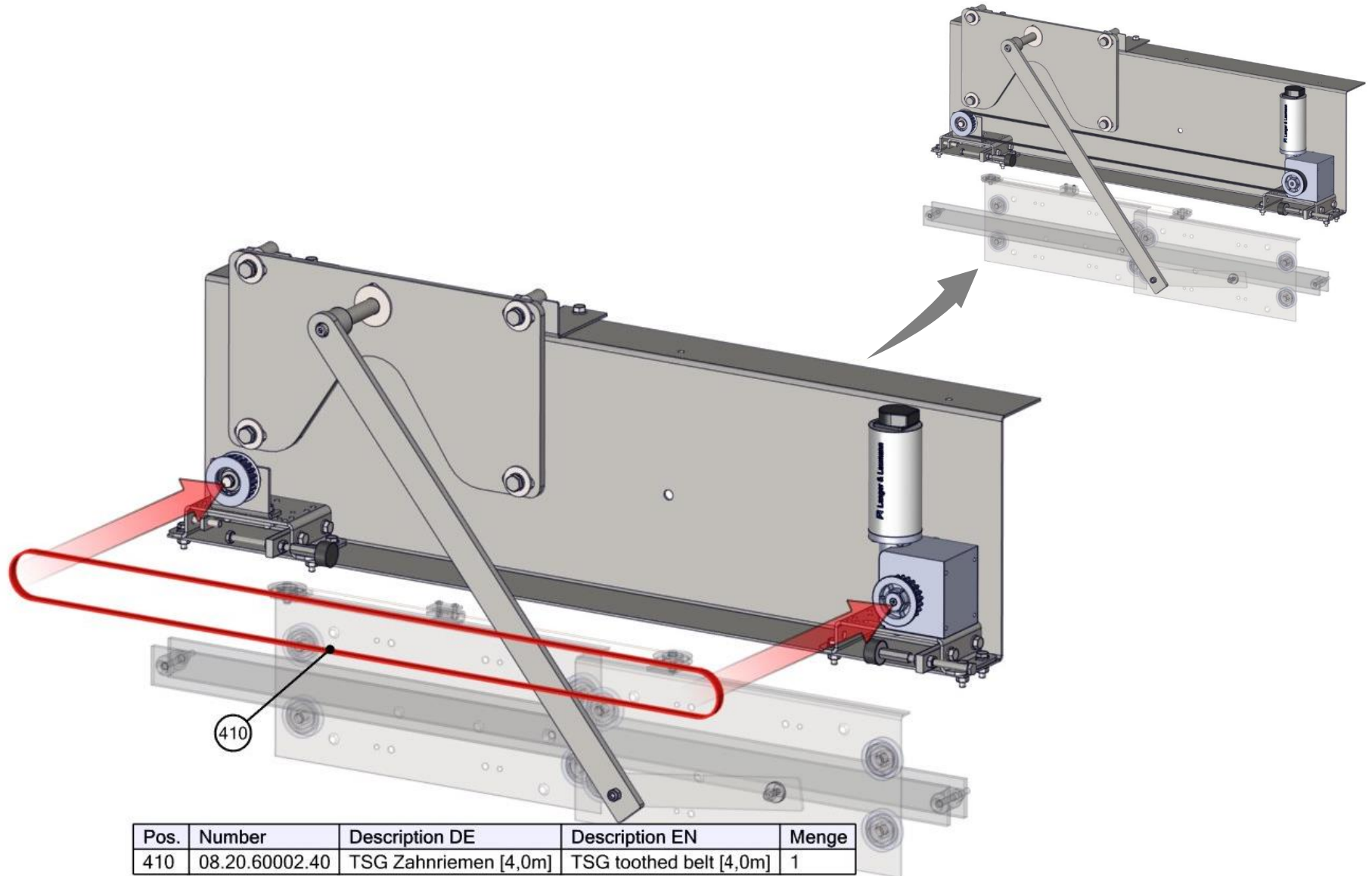


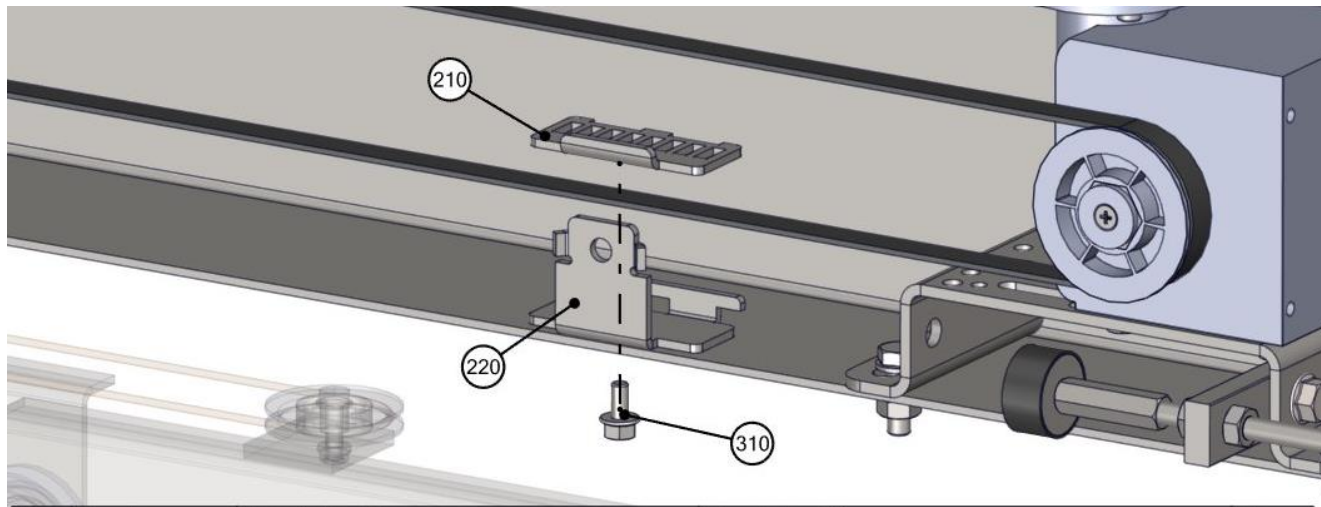
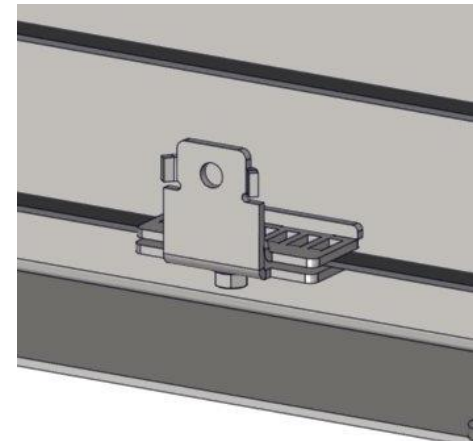
Pos.	Number	Description DE	Description EN	Menge
210	01.20.92220	Adapterplatte für TSG in Otis 6970	adapter plate for TSG in Otis 6970	1
310	01.36.00104	Sechskantschraube ISO 4017- M12x70-8.8, vz	hexagonal bolt ISO4017 vz 8.8 - M12x70	2
320	01.36.00131	Sechskantschraube ISO 4017 - M12x30 - 8.8, vz	hexagonal bolt ISO4017 vz 8.8 - M12x30	2
330	01.36.00168	Federring DIN127-A12-FSt	lock washer DIN127 vz - M12	4
340	01.36.00572	Scheibe DIN 9021-13-140 HV,vz	washer with large outside diameter DIN9021 vz - 13	4



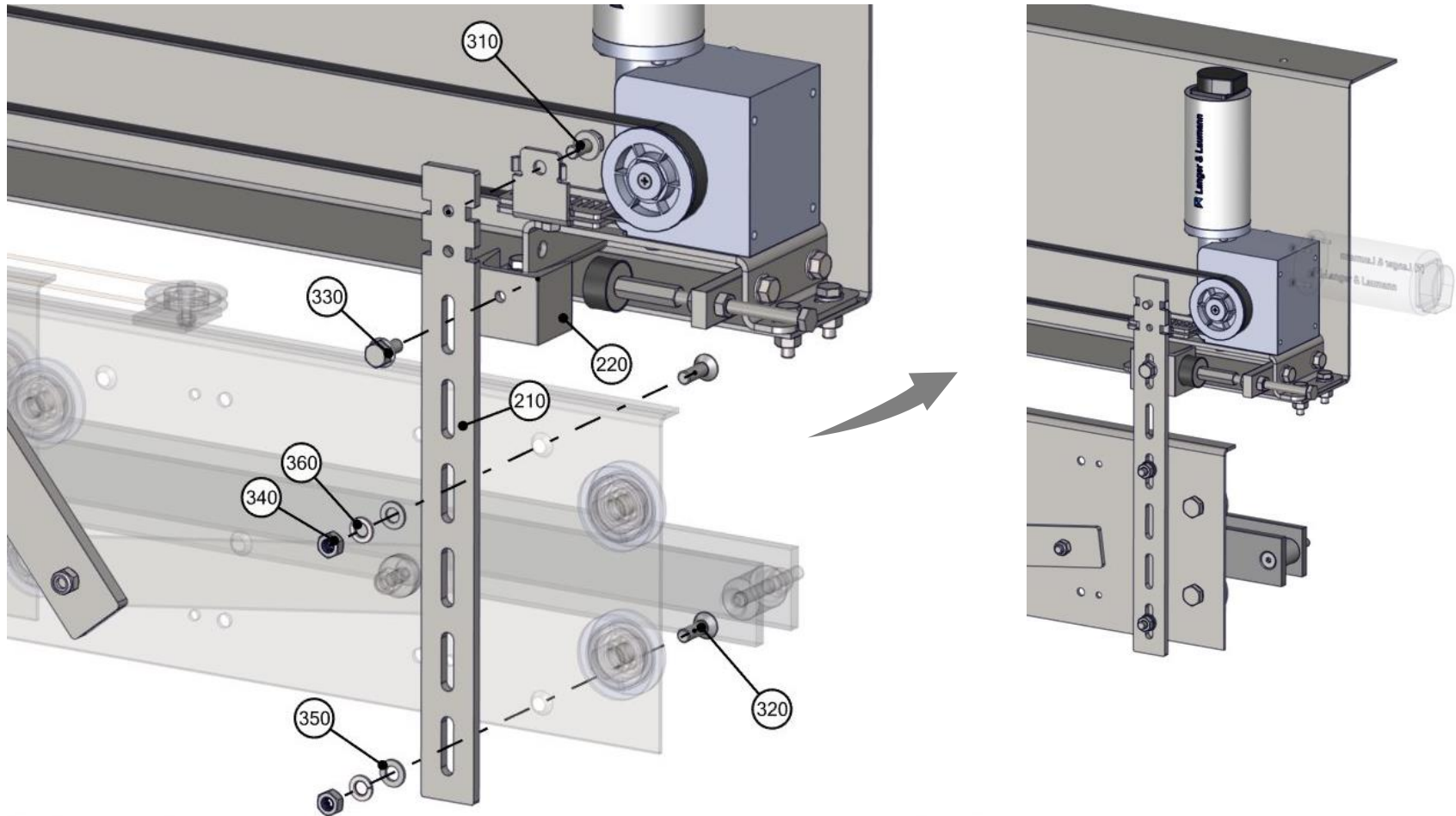


Pos.	Number	Description DE	Description EN	Menge
210	01.20.92230	Umlenkhebel mit Buchse für Welle für TSG in Otis 6970	idler arm with bushing for shaft for TSG in Otis 6970	1
310	01.36.00609	Zylinderschraube ISO4762/DIN912 Innensechskant vz 8.8 - M8x16	hexagon socket head cap screw ISO4762/DIN912 vz 8.8 - M8x16	1
320	01.20.92210	Gleitlagerbuchse , wartungsfrei	plain bearing bush, maintenance-free	1
330	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	1
340	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126),vz	washer DIN125A vz - 8,4	1



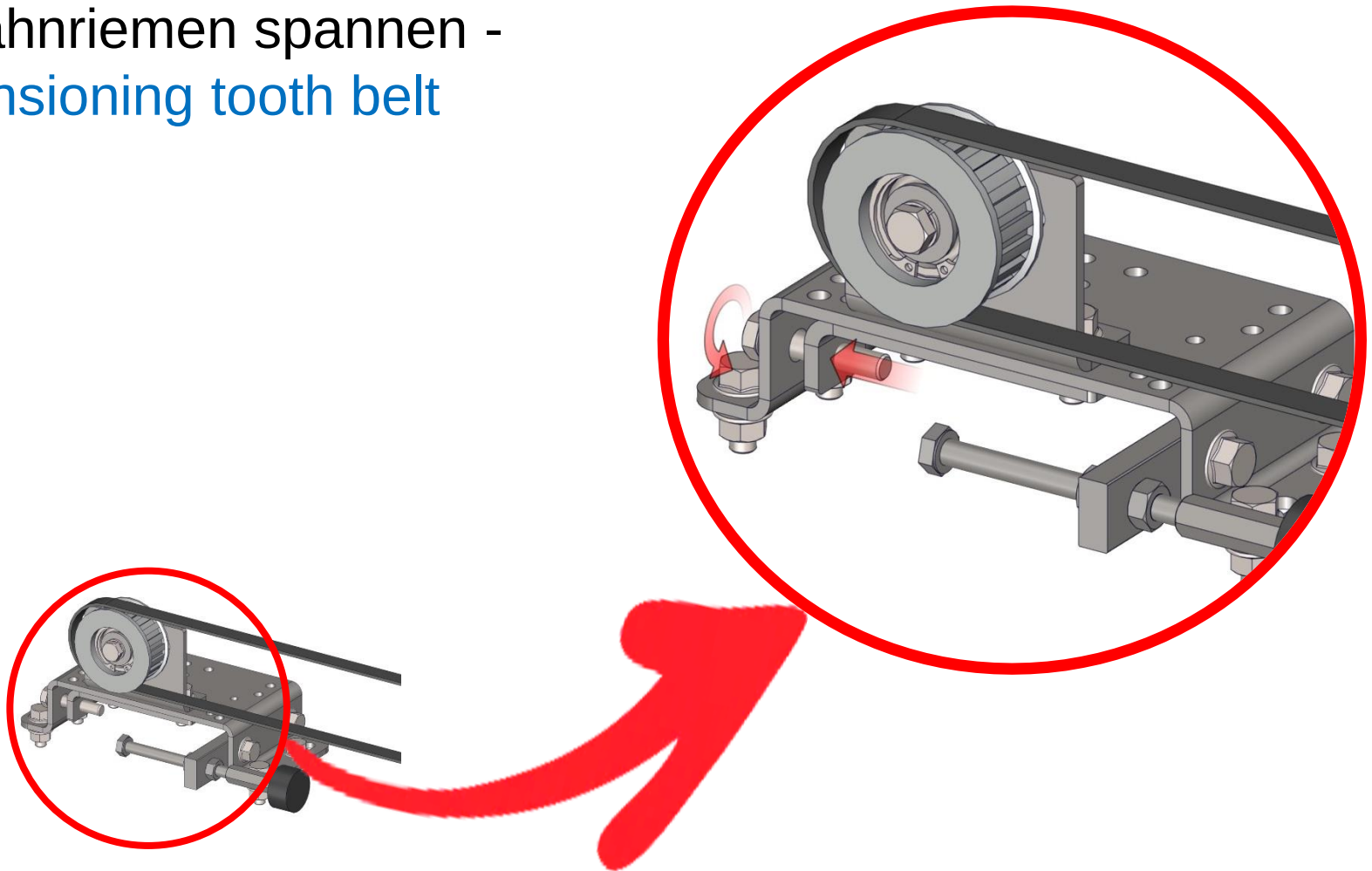


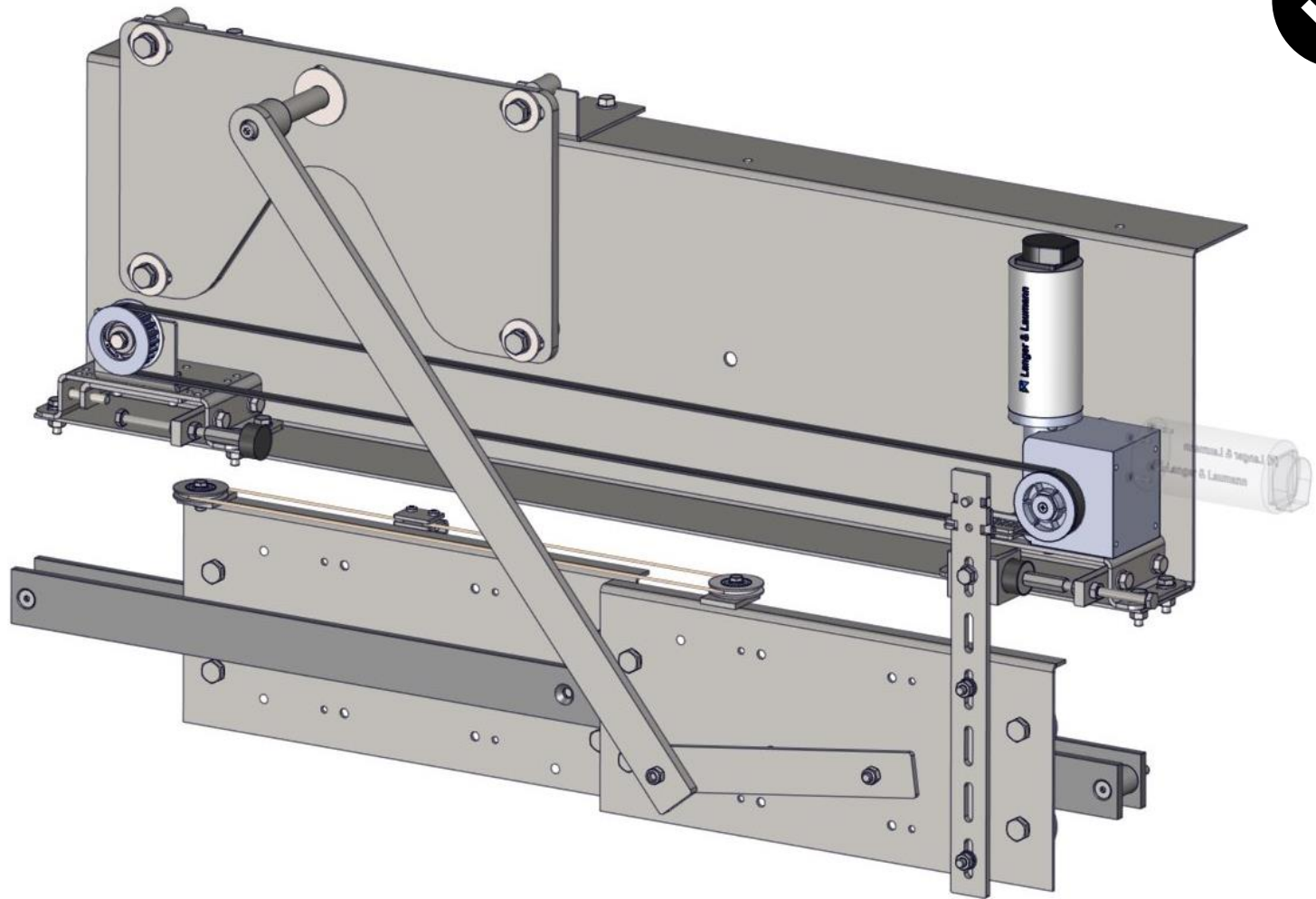
Pos.	Number	Description DE	Description EN	Menge
210	01.20.60005-T2	TSG Zahnriemenschluss, Stahl, Klemmplatte-T2	TSG toothed belt lock, steel, clamp plate- p2	1
220	01.20.60005-T1	TSG Zahnriemenschluss, Stahl, Mitnehmer-T1	TSG toothed belt lock, steel, carrier - p1	1
310	01.36.00135	Sperrzahnschraube DIN 6921 M6x12 verz.	hexagon head serrated screw WN0274 A2C 8.8 - M6x12	1



Pos.	Number	Description DE	Description EN	Menge
210	01.20.60004	Türflügelmitnehmer 375x35x6	TSG door panel coupler 375x35x6	1
220	01.20.60020 T1	TSG Anschlag für Türflügelmitnehmer	TSG stopper for door coupler	1
310	01.36.00710	Sperrzahnschraube WN0274 A2C 8.8 - M8x16	hexagon head serrated screw WN0274 A2C 8.8 - M8x16	1
320	01.36.02213	Senkschraube m.Innensechskant ISO10642-M8x25	countersunk head screw w.recessed head DIN7991 vz8.8 - M8x25	2
330	01.36.00710	Sperrzahnschraube WN0274 A2C 8.8 - M8x16	hexagon head serrated screw WN0274 A2C 8.8 - M8x16	1
340	01.36.00430	Sechskantmutter ISO 4032 - M8 - 8,vz	hexagon nut DIN934-8 vz 8.8 - M8	2
350	01.36.00440	Scheibe ISO 7091-M8 (Ø9)-100HV (DIN126),vz	washer DIN125A vz - 8,4	2
360	01.36.00169	Federring DIN127 vz - M8	lock washer DIN127 vz - M8	2

Zahnriemen spannen - tensioning tooth belt







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