

Notes:

1. The descriptions, part numbers and quantities mentioned below for Pos.: **1, 12, 23, 29-35, 37, 39, and 41**, are the mechanical parts/assemblies of the current, **complete** Festoon system in STS 3 & 4.
All other positions is merely a break-down list of individual components.

2. As already stated, the last 2 columns state the quantities installed in **One (1) STS festoon system**.

3. Regarding **Pos. 43 - 48**:

As also stated below, the quantities shown are minimum and indicative only and are based on several assumptions.
Each Bidder shall include these quantities in his offer whatsoever.

However, it is nevertheless the responsibility of the Contractor to supply & install all necessary quantities, as required for the proper operation of each STS 3&4 Festoon System.

Also refer to: **Annex 09 (Festoon Engineering Guidelines)** and: **Annex 10 (Festoon Installation Instructions)**

4. Also refer to the attached **Annex 05 (Mechanical Components Drawings)**

STS 3&4 FESTOON OVERHAUL

Mechanical Components

[of existing Festoon Systems at STS 3 & 4 - Data per STS]

Pos.	Item	Drawing / Part Number	Material	Description	Comments	Quantity Installed [per STS]	Unit [pc or set]
1	10	03-M066-0160	3118148	Towing trolley 0365 R 0140 [for IPE 400]	1 Set/STS. Set. Each set is a complete assembly which includes all 3 Rollers (Ø125mm, Ø80mm and Ø63mm), Both Cable Supports, Clamping Bars & Elastic Buffer. i.e. with all components, as shown at Wampfler's drawing: 03-M066-0160 Note: All items 10.1 - 10.10 stated below, is a break-down list of the individual components of this set.	1	Set
2	10.1	031980-080x080/517	70504	End stop buffer R 080x080 70SHA [Rubber buffer Ø80mm]	1 pc/Towing Trolley (Including 2 bolts and 2 washers per buffer, as shown at the provided drawing)	1	pc
3	10.2	030113-125.2	3121643	Main roller 125 PU [Vertical roller with PolyUrethane coating Ø125mm]	4 Set/Towing Trolley Each set includes all components (Items/Pos. 1-3), as shown at Wampfler's drawing: 030113-125.2	4	Set
4	10.3	030105-080.1	3048183	Horizontal guiding roller 080ST [Horizontal, metal roller Ø80mm]	4 Set/Towing Trolley Each set includes all components (Items/Pos. 1-9), as shown at Wampfler's drawing: 030105-080.1	4	Set
5	10.4	030108-063.2	3051504	Anti lift roller 063ST [Vertical, metal roller Ø63mm]	4 pc/Towing Trolley Each pc includes all components (Items/Pos. 1-4), as shown at Wampfler's drawing: 030108-063.2	4	Set
6	10.5	03-S016-1617	3033699	Side shield 125PU/080ST/063ST	4 Set/Towing Trolley. Set. Each set is a complete assembly, which includes all components (Items/Pos. 1-9), as shown at Wampfler's drawing: 03-S016-1617	4	Set
7	10.6	03-F103-0100	76243	Running gear 125PU/080ST/063ST 0140	1 Set/Towing Trolley. Set. Each set is a Complete assembly which includes all 3 Rollers (Ø125mm, Ø80mm and Ø63mm). i.e. with all components, as shown at Wampfler's drawing: 03-F103-0100 Without cable supports, clamping bars or elastic buffer.	1	Set
8	10.7	039004-360x250	3051202	Support complete Ø360x250x2 FI [Upper support Ø360mm]	1 Set/Towing Trolley. Set. Each set comprising of 2 individual semi-circular sections to be bolted together. i.e. with all components, as shown at Wampfler's drawing: 039004-360Xxxx	1	Set
9	10.8	039010-360x250	3054997	Clamping bar D360x250 C63 ET [For Upper support]	2 Set/Towing Trolley. Set. Each set comprising of 2 individual pcs of clamping bars. It includes all components (Items/Pos. 1-7), as shown at Wampfler's drawing: 039010-360x250	2	Set
10	10.9	039004-260x200		Support complete Ø260X200x2 FI [Lower support Ø260mm]	1 Set/Towing Trolley. Set. Each set comprising of 2 individual semi-circular sections to be bolted together. i.e. with all components, as shown at Wampfler's drawing: 039004-260Xxxx	1	Set
11	10.10	039010-260x250	3187363	Clamping bar D260x250 C50 ET [For Lower support]	2 Set/Towing Trolley. Set. Each set comprising of 2 individual pcs of clamping bars. It includes all components (Items/Pos. 1-7), as shown at Wampfler's drawing: 039010-260x250	2	Set
12	20	03-L.066-0130	3033711	Cable trolley 036 R 0140 [for IPE 400]	14 Set/STS. Set. Each set is a complete assembly which includes all 3 Rollers (Ø125mm, Ø80mm and Ø63mm), Both Cable Supports, Clamping Bars & Elastic Buffer. i.e. with all components, as shown at Wampfler's drawing: 03-L.066-0130 . Note: All items 20.1 - 20.10 stated below, is a break-down list of the individual components of this set.	14	Set
13	20.1	031980-080X080/517	70504	End stop buffer R 080x080 70SHA [Rubber buffer Ø80mm]	2 pc/Cable Trolley (Including 2 bolts and 2 washers per buffer, as shown at the provided drawing)	28	pc
14	20.2	030113-125.2	3121643	Main roller 125 PU [Vertical roller with PolyUrethane coating Ø125mm]	4 Set/Cable Trolley Each set includes all components (Items/Pos. 1-3), as shown at Wampfler's drawing: 030113-125.2	56	Set
15	20.3	030105-080.1	3048183	Horizontal guiding roller 080ST [Horizontal, metal roller Ø80mm]	4 Set/Cable Trolley Each set includes all components (Items/Pos. 1-9), as shown at Wampfler's drawing: 030105-080.1	56	Set
16	20.4	030108-063.2	3051504	Anti lift roller 063ST [Vertical, metal roller Ø63mm]	4 Set/Cable Trolley Each set includes all components (Items/Pos. 1-4), as shown at Wampfler's drawing: 030108-063.2	56	Set
17	20.5	03-S016-1617	3033699	Side shield 125PU/080ST/063ST	4 Set/Cable Trolley. Set. Each set is a complete assembly, which includes all components (Items/Pos. 1-9), as shown at Wampfler's drawing: 03-S016-1617	56	Set

18	20.6	03-F103-0100	76243	Running gear 125PU/080ST/063ST 0140	1 Set/Cable Trolley. Set. Each set is a Complete assembly which includes all 3 Rollers (Ø125mm, Ø80mm and Ø63mm). i.e. with all components, as shown at Wampfler's drawing: 03-F103-0100 Without cable supports, clamping bars or elastic buffer.	14	Set
19	20.7	039004-360x250	3051202	Support complete Ø360x250x2 FI [Upper support Ø360mm]	1 Set/Cable Trolley. Set. Each set comprising of 2 individual semi-circular sections to be bolted together. i.e. with all components, as shown at Wampfler's drawing: 039004-360Xxxx	14	Set
20	20.8	039010-360x250	3054997	Clamping bar D360x250 C63 ET [For Upper support]	2 Set/Cable Trolley. Set. Each set comprising of 2 individual pcs of clamping bars. It includes all components (Items/Pos. 1-7), as shown at Wampfler's drawing: 039010-360x250	28	Set
21	20.9	039004-260X200		Support complete Ø260X200x2 FI [Lower support Ø260mm]	1 Set/Cable Trolley. Set. Each set comprising of 2 individual semi-circular sections to be bolted together. i.e. with all components, as shown at Wampfler's drawing: 039004-260Xxxx	14	Set
22	20.10	039010-260X250	3187363	Clamping bar D260x250 C50 ET [For Lower support]	2 Set/Cable Trolley. Set. Each set comprising of 2 individual pcs of clamping bars. It includes all components (Items/Pos. 1-7), as shown at Wampfler's drawing: 039010-260x250	28	Set
23	30	03-E065-0145	3033734	End clamp complete D360/D260x250	1 Set/STS. Set. Each set is a complete assembly which includes all Both Cable Supports, Clamping Bars & Elastic Buffer. i.e. with all components, as shown at Wampfler's drawing: 03-E065-0145 Note: All items 30.1 - 30.5 stated below, is a break-down list of the individual components of this set.	1	Set
24	30.1	031980-080X080/517	70504	End stop buffer R 080x080 70SHA [Rubber buffer Ø80mm]	1 pc/End Clamp (Including 2 bolts and 2 washers per buffer, as shown at the provided drawing)	1	pc
25	30.2	039004-360x250	3051202	Support complete Ø360x250x2 FI [Upper support Ø360mm]	1 Set/End Clamp. Set. Each set comprising of 2 individual semi-circular sections to be bolted together. i.e. with all components, as shown at Wampfler's drawing: 039004-360Xxxx	1	Set
26	30.3	039010-360x250	3054997	Clamping bar D360x250 C63 ET [For Upper support]	2 Set/End Clamp. Set. Each set comprising of 2 individual pcs of clamping bars. It includes all components (Items/Pos. 1-7), as shown at Wampfler's drawing: 039010-360x250	2	Set
27	30.4	039004-260X200		Support complete Ø260X200x2 FI [Lower support Ø260mm]	1 Set/End Clamp. Set. Each set comprising of 2 individual semi-circular sections to be bolted together. i.e. with all components, as shown at Wampfler's drawing: 039004-260Xxxx	1	Set
28	30.5	039010-260X250	3187363	Clamping bar D260x250 C50 ET [For Lower support]	2 Set/End Clamp. Set. Each set comprising of 2 individual pcs of clamping bars. It includes all components (Items/Pos. 1-7), as shown at Wampfler's drawing: 039010-260x250	2	Set
29	40	031941-036x500/400	60386	Round cable clamp with stainless steel fasteners / Cable clamp RD V2A [Cable clamp for Upper Loop]	2 pc/Cable Loop	28	pc
30	50	031941-026x500/400	60365	Round cable clamp with stainless steel fasteners / Cable clamp RD V2A [Cable clamp for Lower Loop]	2 pc/Cable Loop	28	pc
31	60	031963-2.80	3000685	Towing Wire Rope (Tension relief rope) 8/10 PVC coated 2.80 m	1 pc/Cable Loop	1	pc
32	70	031963-3.20	3000685	Towing Wire Rope (Tension relief rope) 8/10 PVC coated 3.20 m	1 pc/Cable Loop	1	pc
33	80	031963-4.30	3000685	Towing Wire Rope (Tension relief rope) 8/10 PVC coated 4.30 m	1 pc/Cable Loop	1	pc
34	90	031963-8.4	3000685	Towing Wire Rope (Tension relief rope) 8/10 PVC coated 8.40 m	1 pc/Cable Loop	11	pc
35	100	031977-2-1.90	3004002	Damping device 4 x Ø20 1.90m	1 Set/Cable Loop Set. Each set includes 4 elastic cords Ø20 - 1.90m , Fasteners and Mounting steel console.	1	Set
36	100.1	031989-2-1.90	3003980	Shock cords for damping devices d20mm - 1.9m	4 pc/Cable Loop [Single elastic cord]	4	pc
37	110	031977-2-2.20	3004002	Damping device 4 x Ø20 2.20m	1 Set/Cable Loop. Set. Each set includes 4 elastic cords Ø20 - 2.20m , Fasteners and Mounting steel console.	1	Set
38	110.1	031989-2-2.20	3003980	Shock cords for damping devices d20mm - 2.2m	4 pc/Cable Loop [Single elastic cord]	4	pc
39	120	031977-2-3.00	3004002	Damping device 4 x Ø20 3.00m	1 Set/Cable Loop. Set. Each set includes 4 elastic cords Ø20 - 3.00m , Fasteners and Mounting steel console.	1	Set
40	120.1	031989-2-3.00	3003980	Shock cords for damping devices d20mm - 3.0m	4 pc/Cable Loop [Single elastic cord]	4	pc
41	130	031977-2-5.70	3004002	Damping device 4 x Ø20 5.70m	1 Set/Cable Loop. Set. Each set includes 4 elastic cords Ø20 - 5.70m , Fasteners and Mounting steel console.	11	Set
42	130.1	031989-2-5.70	3003980	Shock cords for damping devices d20mm - 5.7m	4 pc/Cable Loop [Single elastic cord]	44	pc

43	140	031899-053x020/514		Additional Rubber Clamping Piece - Version 1 [for Clamping bars of Cable supports]	The quantity indicated in the right column is minimum and indicative only and it is based on the assumption that 2 Additional Rubber Clamping Pieces / Clamping Bar shall be required. [Note: there are 32 bars in total installed at all upper cable supports and also 32 clamping bars in total for all lower cable supports]	124	pc
44	150	031899-065x020/514		Additional Rubber Clamping Piece - Version 2 [for Clamping bars of Cable supports]	The quantity indicated in the right column is minimum and indicative only and it is based on the assumption that 2 Additional Rubber Clamping Pieces / Clamping Bar shall be required. [Note: there are 32 bars in total installed at all upper cable supports and also 32 clamping bars in total for all lower cable supports]	124	pc
45	160	031946-26		Additional Plastic Spacer - Small Version [for the Round Cable Clamps (type: 031941-026x...) of the Lower Cable Loops]	The quantity indicated in the right column is minimum and indicative only and it is based on the assumption that 2 Spacers / Round Cable Clamp shall be required. [Note: there are 28 Round Cable Clamps installed at all Lower Cable Loops]	56	pc
46	170	031946-36		Additional Plastic Spacer - Small Version [for the Round Cable Clamps (type: 031941-036x...) of the Upper Cable Loops]	The quantity indicated in the right column is minimum and indicative only and it is based on the assumption that 2 Spacers / Round Cable Clamp shall be required. [Note: there are 28 Round Cable Clamps installed at all Upper Cable Loops]	56	pc
47	180	031947-26		Additional Plastic Spacer - Broad Version [for the Round Cable Clamps (type: 031941-026x...) of the Lower Cable Loops]	The quantity indicated in the right column is minimum and indicative only and it is based on the assumption that 2 Spacers / Round Cable Clamp shall be required. [Note: there are 28 Round Cable Clamps installed at all Lower Cable Loops]	56	pc
48	190	031947-36		Additional Plastic Spacer - Broad Version [for the Round Cable Clamps (type: 031941-036x...) of the Upper Cable Loops]	The quantity indicated in the right column is minimum and indicative only and it is based on the assumption that 2 Spacers / Round Cable Clamp shall be required. [Note: there are 28 Round Cable Clamps installed at all Upper Cable Loops]	56	pc