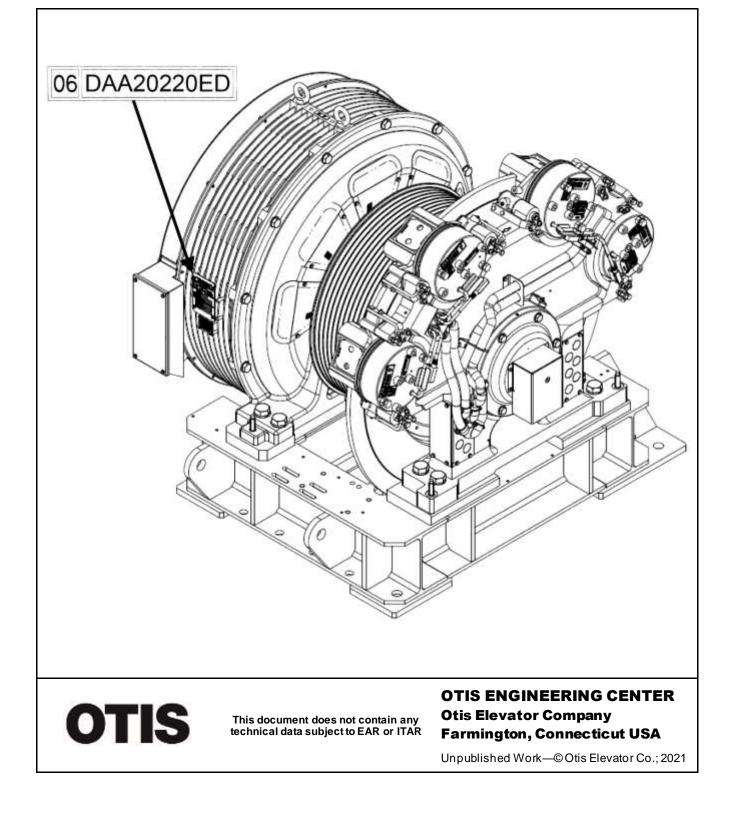
SkyMotion[®] 160 (32T) Machine

Spare Parts Leaflet

06-DAA20220ED

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History

Leaflet Description

This leaflet provides spare parts information for the PM gearless machine, type DAA20220ED (also known as SkyMotion[®] 160 or 32T machine). DAA20220ED covers duty loads up to 2250 kg @ 1:1 roping and elevator speeds up to 7 m/s.

Leaflet Revisions

Date Revised	Subject Matter Expert	Reason for Revision
September 27, 2018	Kyle Connolly	Original Document
September 16, 2020	Kyle Connolly	Clarifications & part number corrections on pp. 7, 10, 12, 14, 15, and 16
October 13, 2021	Gary Mendrala and James Hubbard	Added brake switch lever on p. 7

Related Drawings

Drawing No.	Title	Drawing No.	Title
DAA20220ED	Machine Assembly	DAA29509E	Brake
JAA20226ABK	Motor	DAA20700R	Secondary Sheave Assembly
DAA20850A	Isolation Arr.	DAA29509F	Deflector Sheave Assembly
DAA208050A	Machine Isolation	DAA29509G	Guarding

Related Documents

Document ID	Title
	Order Data Sheet for Skymotion 160 Machine
DAA20220ED_BD	Basic Data for Skymotion 160 Machine

Subject Matter Expert

Name	Department
Gary Mendrala and James Hubbard	OSC Service Engineering

About Spare Parts Leaflets...

This document lists the lowest replaceable units (LRUs) for the standard version of the product. The LRUs are chosen by a team of Otis associates representing engineering and manufacturing.

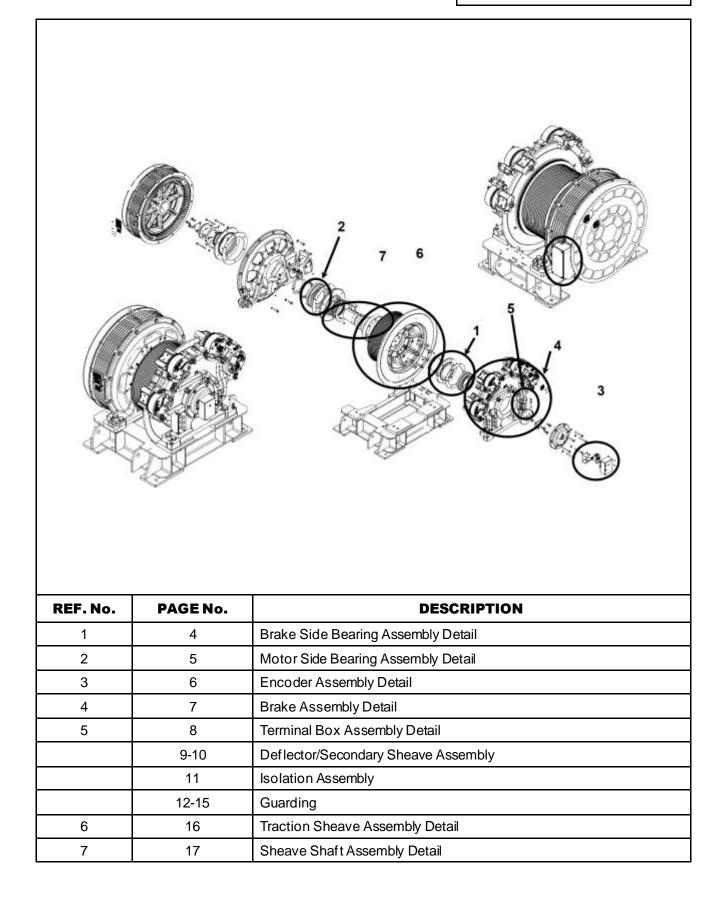
While goal of this document is to make parts identification as easy as possible, the document cannot be allinclusive. Elevator and escalator contracts classified as "special" or "custom" are not addressed here. For such contracts, please refer to specified information, the contract folder, TIPs, Field Education Articles, Construction Letters, etc. for further information.

If you have any suggestions about this document, please contact the subject matter expert listed on this page.

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Brake-Side Bearing Assembly

	2 4 Мотор	
	SIDE	
REF. No.	SIDE DAA20220ED PART No.	
REF. No.	DAA20220ED	DESCRIPTION
	DAA20220ED PART No.	
1	DAA20220ED PART No. DAA209Z1	DESCRIPTION Bearing

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Moto	r-Side Bea	06-DAA20220ED	
REF. No.	PART No.	DESC	RIPTION
1	DAA209AB1	Bearing	
*	VP-420240	Bearing Grease (Otis #12)	
2	JAA346AXN1	Cover	
3	JAA376AAS1	Gasket (Qty = 2)	
4	JAA172AAW1	Ring	
5	JAA33AAW1	Seal	
6 *Not Shown	JAA33AAW3	Seal	

*Not Shown

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Encoder Assembly

	JBA21410ABF	
REF. No.	JBA21410ABF PART No.	DESCRIPTION
1	JBA21410ABF PART No. JAA00316DBF001	DESCRIPTION Bracket
1 2	JBA21410ABF PART No. JAA00316DBF001 JAB633ACD1	DESCRIPTION Bracket Encoder
1 2 3	JBA21410ABF PART No. JAA00316DBF001 JAB633ACD1 JAA194AAP2	DESCRIPTION Bracket Encoder Key
1 2 3 4	JBA21410ABF PART No. JAA00316DBF001 JAB633ACD1 JAA194AAP2 JAA72ABP1	DESCRIPTION Bracket Encoder Key Nut
1 2 3 4 5	JBA21410ABF PART No. JAA00316DBF001 JAB633ACD1 JAA194AAP2 JAA72ABP1 PSM04X008-RL	DESCRIPTION Bracket Encoder Key Nut Screw, M4x8 Pan Head (Qty = 4)
1 2 3 4	JBA21410ABF PART No. JAA00316DBF001 JAB633ACD1 JAA194AAP2 JAA72ABP1	DESCRIPTION Bracket Encoder Key Nut

NOTE: For nut JAA72ABP1, use 40-42 mm hook spanner wrench for removal.

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Brake Assembly

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REF. DA20220ED				
No.	PART No.	DESCRIPTION	QTY.	USED
1A	AAA20236AD11 AAA20236AD14	Assembly, Brake Caliper, Position, 1 and 3	1	
1B	AAA20236AD12 DAA29509		DAA29509E	
2	AAA316HYB1	Bracket (See NOTE 2)	1	
	AAA102AYM1	Label, Emergency Brake (ASME)	1	
	AAA102AYN1	Label, Brake (ASME)	1	DAA20220ED
NOTE 1	DAA102WF1	Label, Brake (GB)	1	1
4	AAA287DL1	Lever, Brake Switch	1	
5	ISO8673M10X1-8-Z	Nut	1	AAA20236AD1
6	AAA415AV1	Pad Kit (2 Pads)	1	AAA20236AD2
7	AAA124JR1	Screw, Adjustment	1	AAA20236AD3
8	NON1241M8X25-8.8Z	Screw, M8 X 25 Hex Hd (Qty = 2)	2	AAA20236AD4
NOTES:		, <u> </u>	. –	

NOTES:

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1. When replacing brake calipers (item 1), the existing labels with contract-specific information must be transferred to the new brake caliper.

2. The brake should be replaced as an assembly including items 2, 5, 6, & 7.

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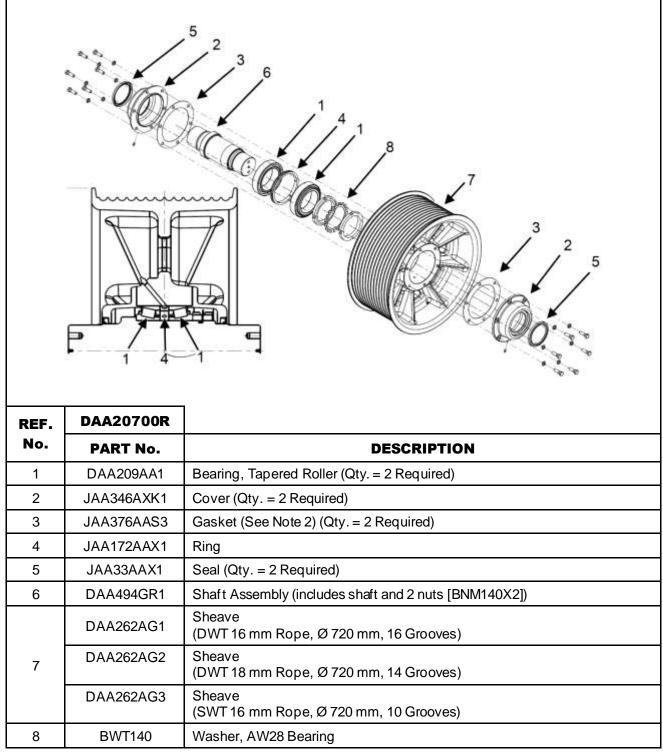
Terminal Box Assembly

	DAA20220ED	
REF. No.	PART No.	DESCRIPTION
1	NON1241M5X12-8.8Z	Screw, M5 X 12 Hex Head w/ Serrated Flange, (Qty = 2)
2	PSM06X012-LW	Screw, M6 X 12 Pan Head w/Slw
3	9700K-06-215	Switch, Thermal. Supplier: Klixon
4	JAA303AFK1	Terminal Block – Motor
5	DAA21303DL1	Terminal Block – Signals

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Deflector/Secondary Sheave Assembly

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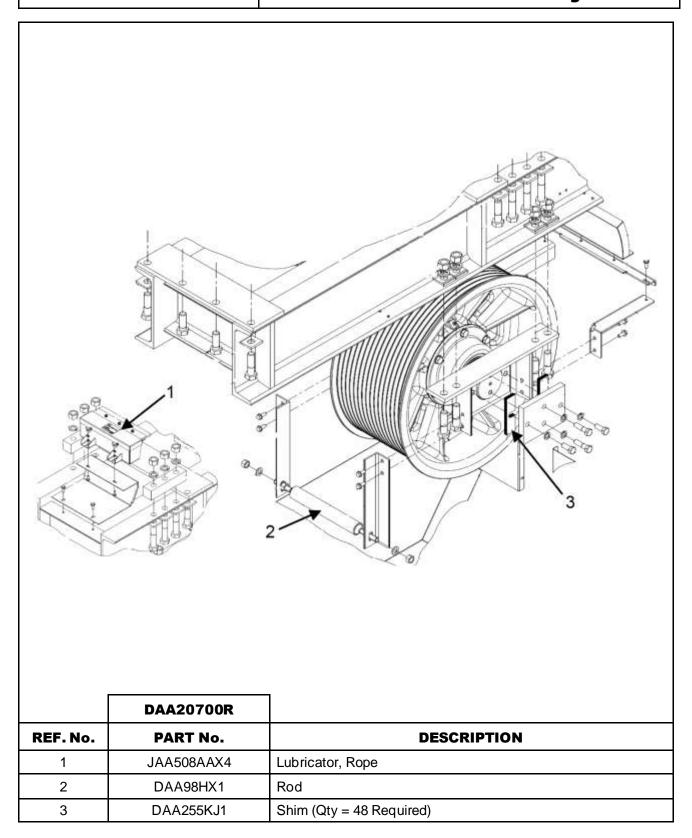


NOTES:

- 1. The bearings must be replaced as an assembled unit of the shaft (item 6), 2 bearings (item 1) and the ring (item 4) as shown above.
- 2. The cover gaskets (item 3) should be replaced at the same time as the bearing assembly.



Deflector/Secondary Sheave Assembly

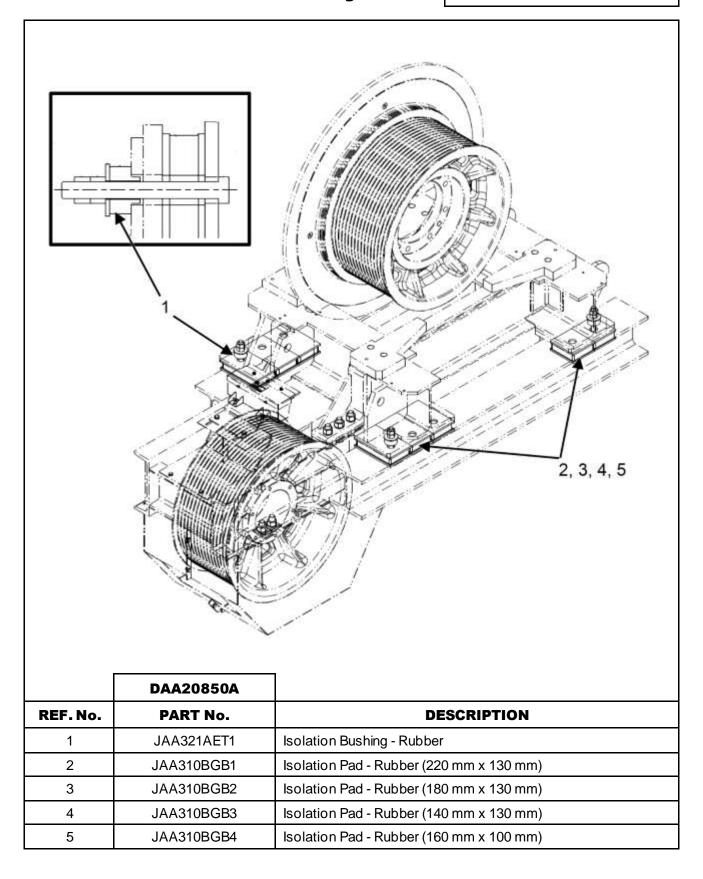


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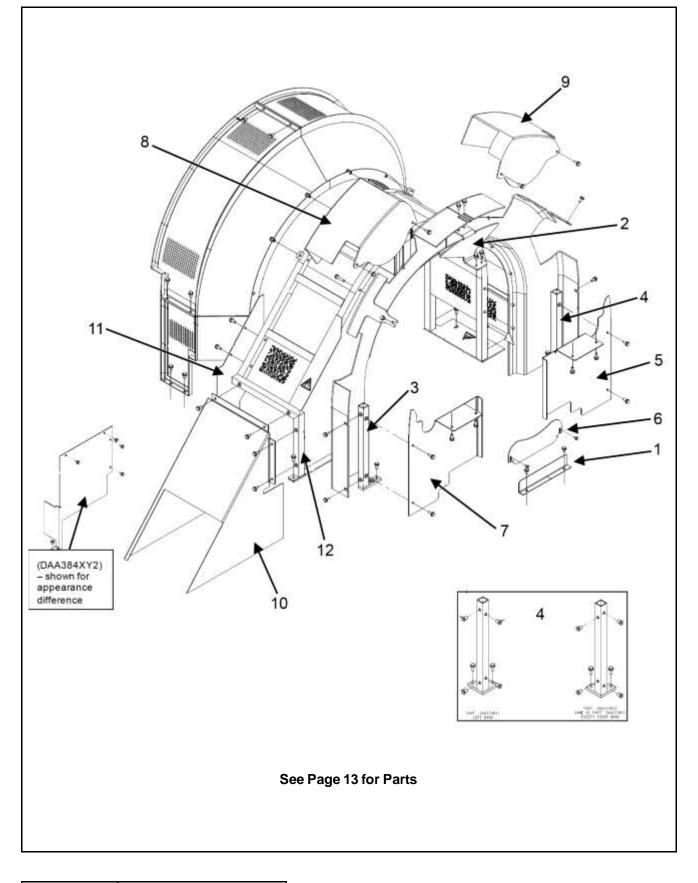
Isolation Assembly

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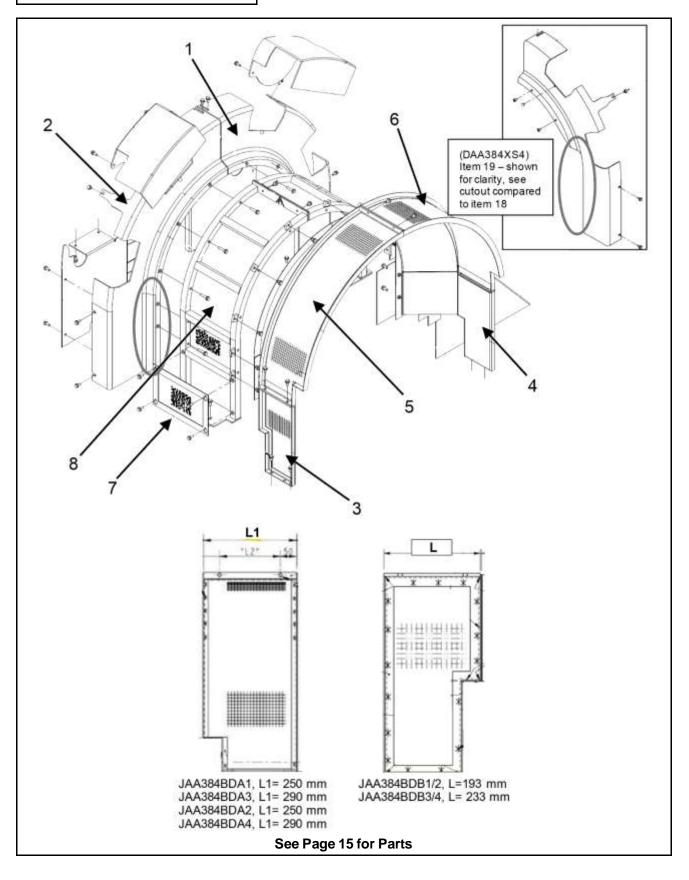
Guarding

REF.	DAA29509G	
No.	PART No.	DESCRIPTION
1	DAA283BJC1	Angle, Formed
2	DAA315PF1	Brace
2	DAA374KT2	Frame, Brake Disc, Rope Drop Side (as shown)
3	DAA374KT1	Frame, Brake Disc, Rope Drop Side (opposite of shown)
4	DAA374KS2	Frame, Brake Disc, Terminal Box Side (as shown)
4	DAA374KS1	Frame, Brake Disc, Terminal Box Side (opposite of shown)
5	DAA384XX1	Guard, Brake Stand, Left Hand Side
6	DAA384YB1	Guard, Brake Stand, Middle
7	DAA384XX2	Guard, Brake Stand, Right Hand Side
8	DAA384XT1	Guard, Brake, Slot 2
9	DAA384XT2	Guard, Brake, Slot 3
	DAA384XY1	Guard, Rope Drop >=850 mm & <=1150 mm (opposite of shown)
	DAA384XY2	Guard, Rope Drop >=850 mm & <=1150 mm (as shown)
10	DAA384XZ1	Guard, Rope Drop >=1151 mm & <=1300 mm (opposite of shown)
10	DAA384XZ2	Guard, Rope Drop >=1151 mm & <=1300 mm (as shown)
	DAA384YA1	Guard, Rope Drop >=1301 mm & <=1700 mm (opposite of shown)
	DAA384YA2	Guard, Rope Drop >=1301 mm & <=1700 mm (as shown)
11	DAA384XV2	Guard, Rope Drop, Back (as shown)
	DAA384XV1	Guard, Rope Drop, Back (opposite of shown)
12	DAA384YC2	Guard, Sheave, Rope Drop Side (as shown)
12	DAA384YC1	Guard, Sheave, Rope Drop Side (opposite of shown)

NOTES:

- 1. Brake guard for slot 2 (DAA384XT1) is needed in 3-brake applications. Brake guards for slots 2 and 3 are needed in 2-brake applications.
- 2. Items 3, 4, 10, 11, & 12 are handed. Make sure to select correct version (looking from motor side of machine).

Guarding



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See Page 14 for Illustrations

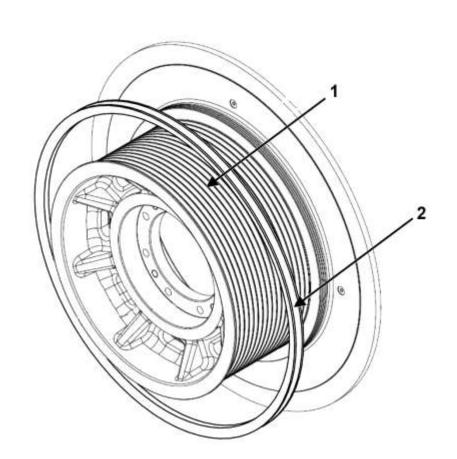
REF.	DAA29509G	
No.	PART No.	DESCRIPTION
1	DAA384XS4	Guard, Brake Disc, Rope Drop Side (as shown)
1	DAA384XS3	Guard, Brake Disc, Rope Drop Side (opposite of shown)
2	DAA384XS2	Guard, Brake Disc, Terminal Box Side (as shown)
2	DAA384XS1	Guard, Brake Disc, Terminal Box Side (opposite of shown)
3	JAA384BDB2 JAA384BDB4	Guard, Motor, Bottom, Left Hand Side
4	JAA384BDB1 JAA384BDB3	Guard, Motor, Bottom, Right Hand Side
5	JAA384BDA2 JAA384BDA4	Guard, Motor, Top, Left Hand Side
6	JAA384BDA1 JAA384BDA3	Guard, Motor, Top, Right Hand Side
7	DAA384YE1	Guard, Rope Cover
8	DAA384YD2	Guard, Sheave, Terminal Box Side (as shown)
8	DAA384YD1	Guard, Sheave, Terminal Box Side (opposite of shown)

NOTES:

1. For items 3-6, p/ns 1 & 2, are for type 1 motor, 3 & 4 are for type 2. Dimensions are shown in the lower illustration on page 14:

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Traction Sheave



REF. No.	DAA20220ED					
	PART No.	DESCRIPTION	GRO	GROOVES		SHEAVE
			NO.	РІТСН	Ø	Ø
1	DAA261AS1	Sheave, Round Seat, DWT	16	19.6	16	760
	DAA261AS2	Sheave, 30° Undercut, DWT	16	19.6	16	760
	DAA261AS6	Sheave, Liner (Existing), SWT	10	28.5	16	762
	DAA261AS8	Sheave, Round Seat, DWT	14	22	18	760
2	2F-251BV11	Sheave Liner			16	

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Sh	eave Shaft A	06-DAA20220ED		
	DAA20220ED			
REF. No.			DESCRIPTION	
1	DAA461K10	Shaft, Rotor		
2	BNM200X3	Nut, Rotor		

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