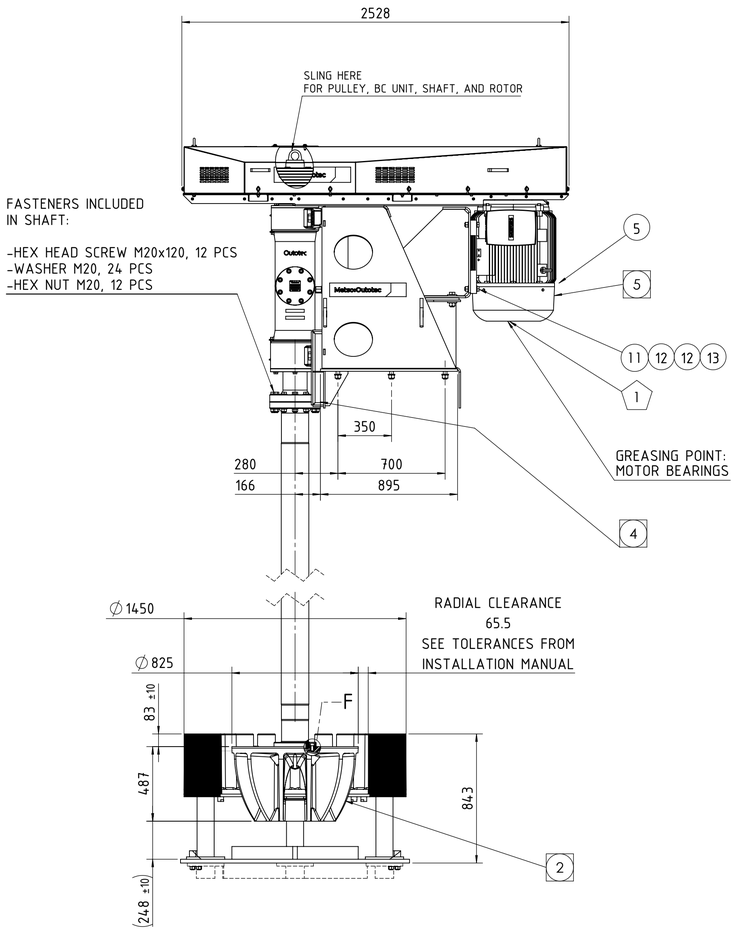
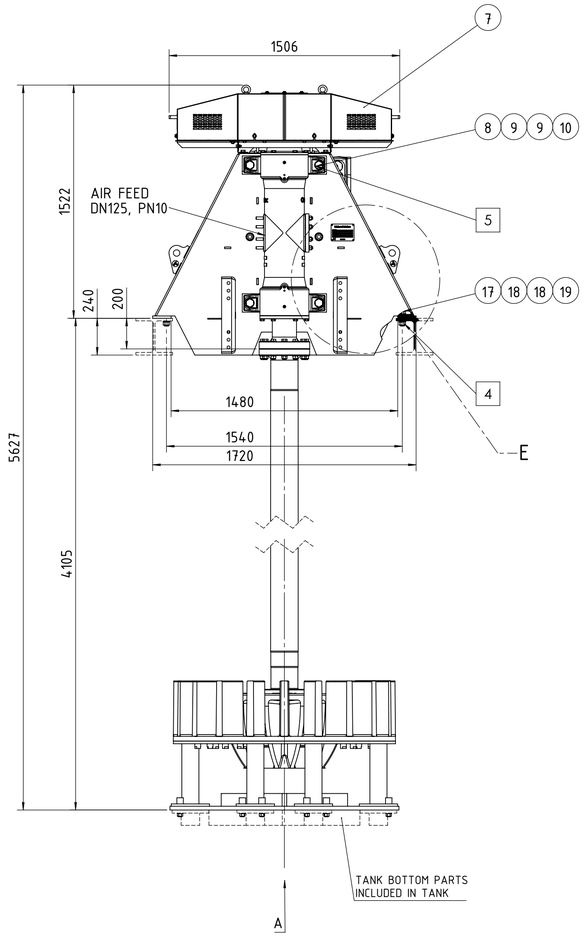
Item Number, rev.: **N031241920, 2** Item Description: **DRIVE ASSEMBLY TankCell® e30 V-BELT** Related Documents: **OU500775424, 0 (Spare Part Drawing)** **OU601801508, 0 (Assembly Drawing)**	Weight: 3530kg	Customer:

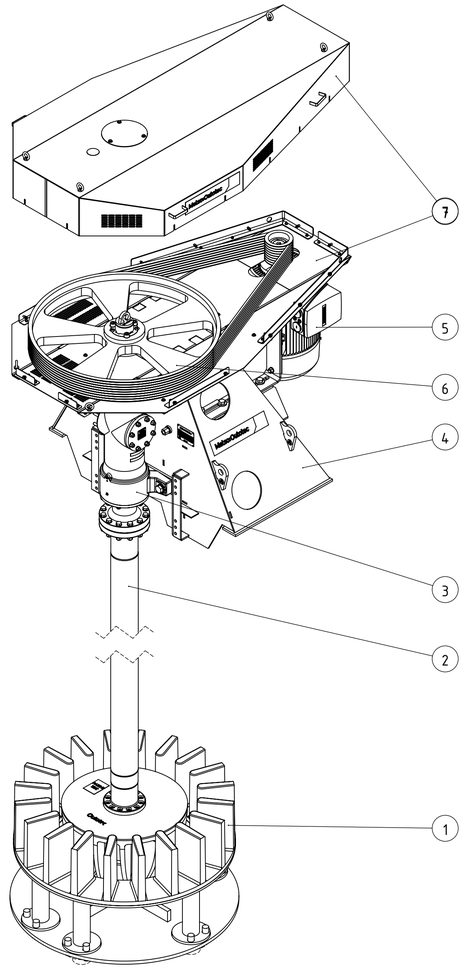
L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
1	01		N031022880, 2	FLOTATION MECHANISM FloatForce® 825		X	1 (EA)	928 928	OU600400701, 3 (Assembly Drawing)
1	02		10411914, 1	LOWER SHAFT TankCell® e30			1 (EA)	279 279	
1	03		10361792, 5	BEARING UNIT BC-40			1 (EA)	433 433	
1	04		N048696750, 1	V-BELT DRIVE RACK RAB-040			1 (EA)	755 755	
1	05		N048696752, 1	ELECTRIC MOTOR 45kW 988rpm	IEC FS 280S 400V 50Hz IP55		1 (EA)	510 510	
1	06		N031241936, 1	V-BELT PULLEY SET		X	1 (EA)	253 253	OU601801509, 0 (Assembly Drawing)
1	07		N031125655, 7	BELT GUARD D1250			1 (EA)	215 215	OU500748479, 0 (Spare Part Drawing)
1	08		N048004538, 1	HEX HEAD SCREW M30x160mm			4 (EA)	1.2 4.7	
1	09		N048005273, 1	PLAIN WASHER M30	ISO 7089 - M30 - 200HV - tZn		8 (EA)	0.05 0.4	
1	10		N048003454, 1	HEX NUT M30	ISO 4032 - M30 - 8 tZn		4 (EA)	0.26 1	
1	011		N048006915, 1	HEX HEAD SCREW M20x80mm			4 (EA)	0.28 1.1	
1	012		515282, 1	PLAIN WASHER M20	ISO 7089 - M20 - 200HV - tZn		8 (EA)	0.02 0.16	
1	013		N048003452, 1	HEX NUT M20	ISO 4032 - M20 - 8 tZn		4 (EA)	0.08 0.32	
1	014		N048004453, 1	HEX HEAD SCREW M16x50mm			4 (EA)	0.12 0.48	

Item Number, rev.: **N031241920, 2** Item Description: **DRIVE ASSEMBLY TankCell® e30 V-BELT** Related Documents: **OU500775424, 0 (Spare Part Drawing)** **OU601801508, 0 (Assembly Drawing)**	Weight: 3530kg	Customer:

L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
1	015		515281, 1	PLAIN WASHER M16	ISO 7089 - M16 - 200HV - tZn		8 (EA)	0.01 0.08	
1	016		N048003663, 1	LOCK NUT M16	ISO 10511 - M16 - 8 tZn		4 (EA)	0.04 0.16	
1	017		N048004509, 1	HEX HEAD SCREW M24x80mm			6 (EA)	0.42 2.5	
1	018		515283, 1	PLAIN WASHER M24	ISO 7089 - M24 - 200HV - tZn		12 (EA)		
1	019		N048003453, 1	HEX NUT M24	ISO 4032 - M24 - 8 tZn		6 (EA)	0.09 0.54	
1	20		N048684266, 1	PRODUCT PLATE 150x110x1mm			1 (EA)	0.13 0.13	







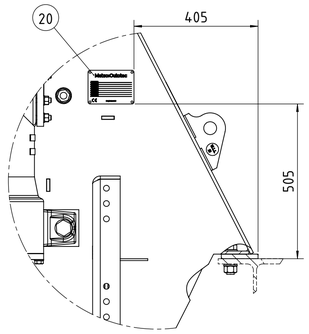
GENERAL TOLERANCES ISO 2768-1 EN ISO 13920 EN ISO 9013 DIN 6935													Values in millimetres
LINEAR DIMENSIONS	Basic size range: > 0,5 ± 3	> 3 ± 6	> 6 ± 30	> 30 ± 120	> 120 ± 400	> 400 ± 1000	> 1000 ± 2000	> 2000 ± 4000	> 4000 ± 8000	> 8000 ± 12 000	> 12 000 ± 16 000	> 16 000 ± 20 000	> 20 000
Machining ISO 2768-m Chamfers and external radi	± 0,1 ± 0,2	± 0,1 ± 0,5	± 0,2 ± 1	± 0,3	± 0,5	± 0,8	± 1,2	± 2					
Welding ISO 13920-B	± 1 (Range 2–30)			± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16
Thermal cutting ISO 9013-2	± 3 < 10	± 10 < 35	± 35 < 125	± 125 < 315	± 315 < 1000	± 1000 < 2000	± 2000 < 4000	Quality of cut surface ISO 9013-44					
3,15 < t ≤ 6,3	± 0,7	± 0,8	± 0,9	± 1,1	± 1,2	± 1,3	± 1,3						
6,3 < t ≤ 10	± 1	± 1,1	± 1,3	± 1,4	± 1,5	± 1,6	± 1,7						
10 < t ≤ 50	± 1,8	± 1,8	± 1,8	± 1,9	± 2,3	± 3	± 4,2						
ANGULAR DIMENSIONS	Shorter side: ≤ 10	> 10 ≤ 50	> 50 ≤ 120	> 120 ≤ 400	> 400 ≤ 1000	> 1000							
Machining ISO 2768-m	± 1°	± 0°30'	± 0°20'	± 0°10'	± 0°5'								
Welding ISO 13920-B	± 13 mm/m				± 9 mm/m	± 6 mm/m							
Bending	SEE DIN 6935												
GEOMETRICAL TOLERANCES	Machining ISO 2768-K			Welding ISO 13920-F									

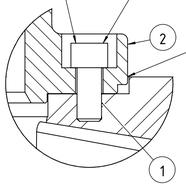
NOTE! CHECK TIGHTENING TORQUES FROM SPECIFICATION INS 13

- No B2 — LUBRICATING POINT BOTH NUMBER OF IT AND TYPE OF GREASE, LUBRICATING FREQUENTCY 1 MONTH
- No — MOTOR LUBRICATION POINT. SEE MOTOR MANUFACTURER MANUAL FOR SPECIFIED LUBRICATION INSTRUCTION AND LUBRICATING FREQUENCY.
- No — ADJUSTING AND MAINTENANCE POINT AND NUMBER OF IT, CHECKING FREQUENCY 1 MONTH
- No — ADJUSTING AND MAINTENANCE POINT AND NUMBER OF IT, CHECKING FREQUENCY 6 MONTHS
- No — MAINTENANCE POINT AND NUMBER OF IT, CHECK 2 WEEKS AFTER INSTALLATION
- SLING HERE

ADDITIONAL AGENTS FOR INSTALLATION AND FINISHING

- EPOXY PAINT ACCORDING SEPARATE INSTRUCTION
- WAX BASED RUST PREVENTIVE 70 (40-100) MICRONS FOR LONG-TERM PROTECTION.
- WAX BASED RUST PREVENTIVE 25 (10-40) MICRONS FOR SHORT-TERM PROTECTION
- SPECIFIED GREASE FOR BEARIGN AND SEALS
- SIKAFLEX 221 OR EQUIVALENT FOR SEALING ROTOR AND LOWER SHAFT JOINT *



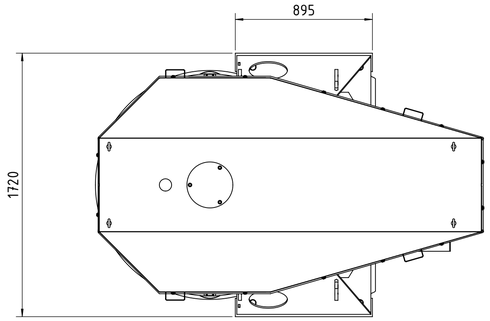


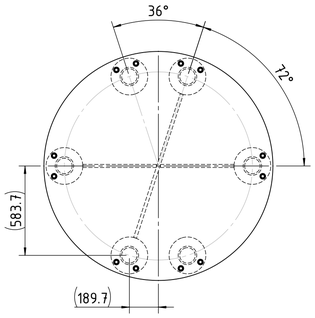
FASTENERS INCLUDED
IN ROTOR:

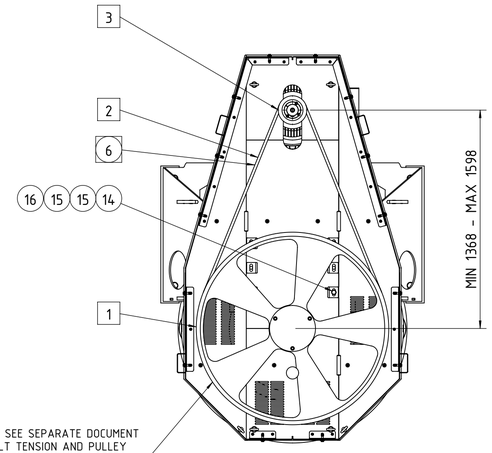
-SOCKET HEAD SCREW M16x35, 12 PCS

USE THREAD LOCKER

SEAL WITH ADHESIVE *.







REV.	NAME	DATE	NAME	DATE	NAME	DATE	REVISION TEXT
	PREPARED		CHECKED		APPROVED		
0	vestyn	25.01.2022	pasraj	25.01.2022	pekkall	25.01.2022	FOR FABRICATION

Metso:Outotec

REPLACED BY

REPLACES

DOCUMENT TITLE
ASSEMBLY DRAWING
DRIVE ASSEMBLY
TankCell® e30

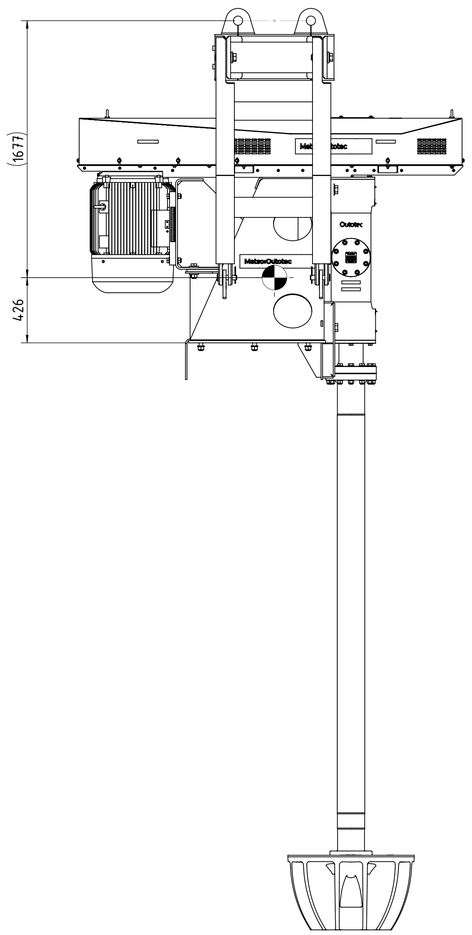
LANGUAGE	UNITS	SCALE	SIZE	SHEET OF SHEETS
EN	mm	1:20	A1	1 / 2

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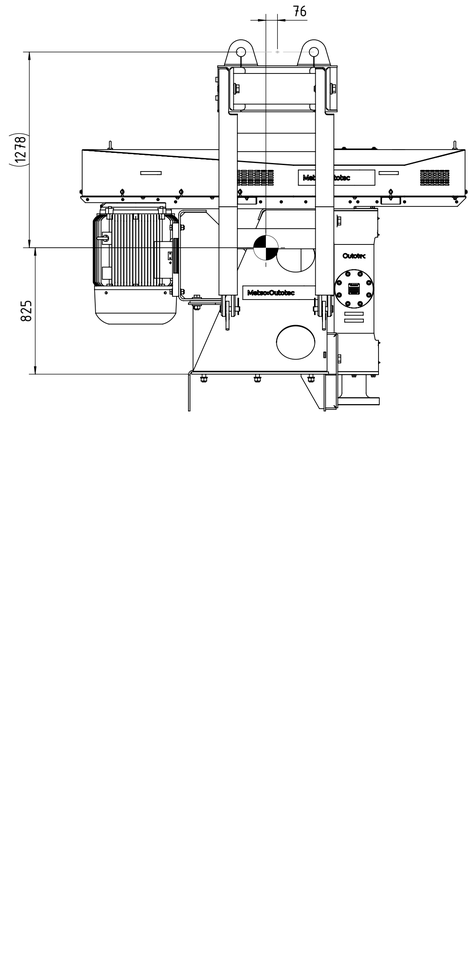
DOCUMENT ID OU601801508

REVISION 0

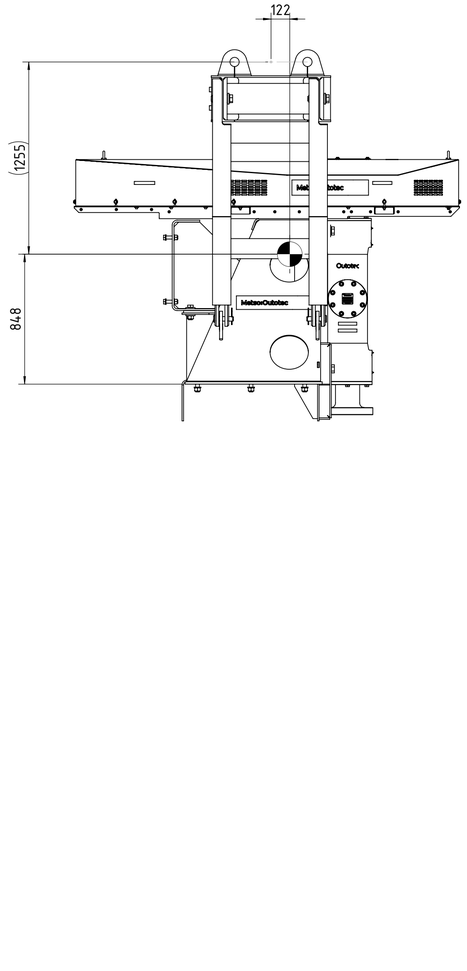
LIFTING WEIGHT 3100 KG



LIFTING WEIGHT 2700 KG



LIFTING WEIGHT 2300 KG



CENTER OF MASS

REV.	NAME	DATE	NAME	DATE	NAME	DATE	REVISION TEXT
0	vestyn	25.01.2022	pasraj	25.01.2022	pekkall	25.01.2022	FOR FABRICATION
	PREPARED		CHECKED		APPROVED		

Metso:Outotec

DOCUMENT TITLE
ASSEMBLY DRAWING
DRIVE ASSEMBLY
TankCell® e30

REPLACED BY

REPLACES

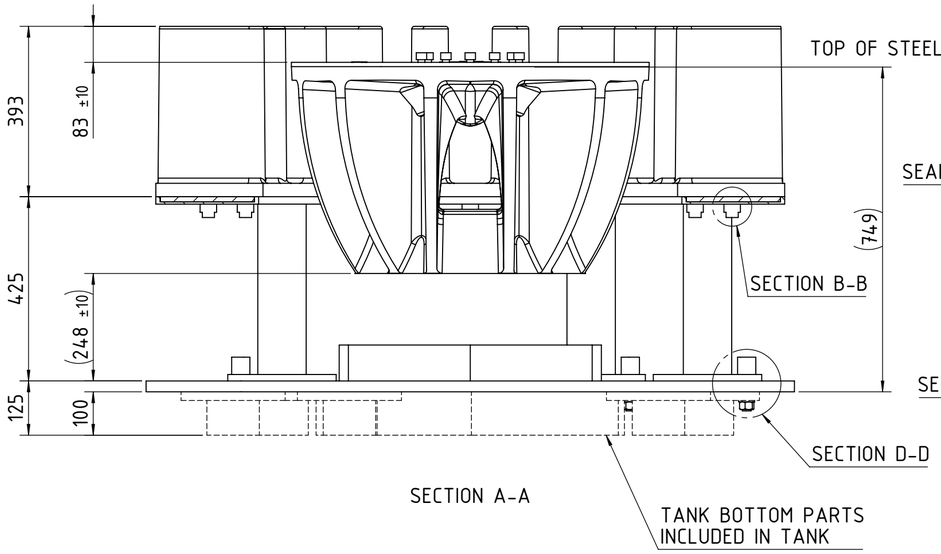
LANGUAGE	UNITS	SCALE	SIZE	SHEET OF SHEETS
EN	mm	1:20	A1	2 / 2

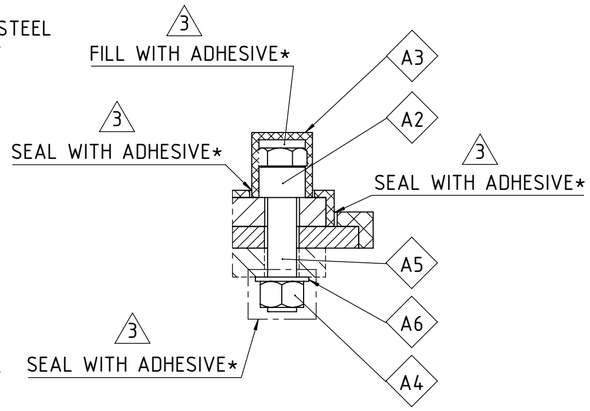
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DOCUMENT ID	REVISION
OU601801508	0

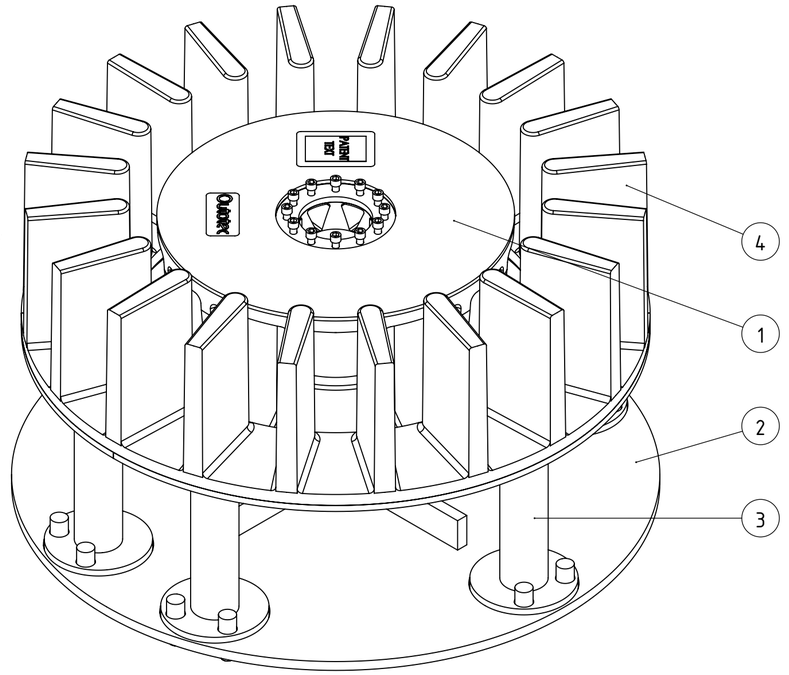
Item Number, rev.: **N031022880, 2** Item Description: **FLOTATION MECHANISM FloatForce® 825** Related Documents: **OU600400701, 3 (Assembly Drawing)**	Weight: 928kg	Customer:

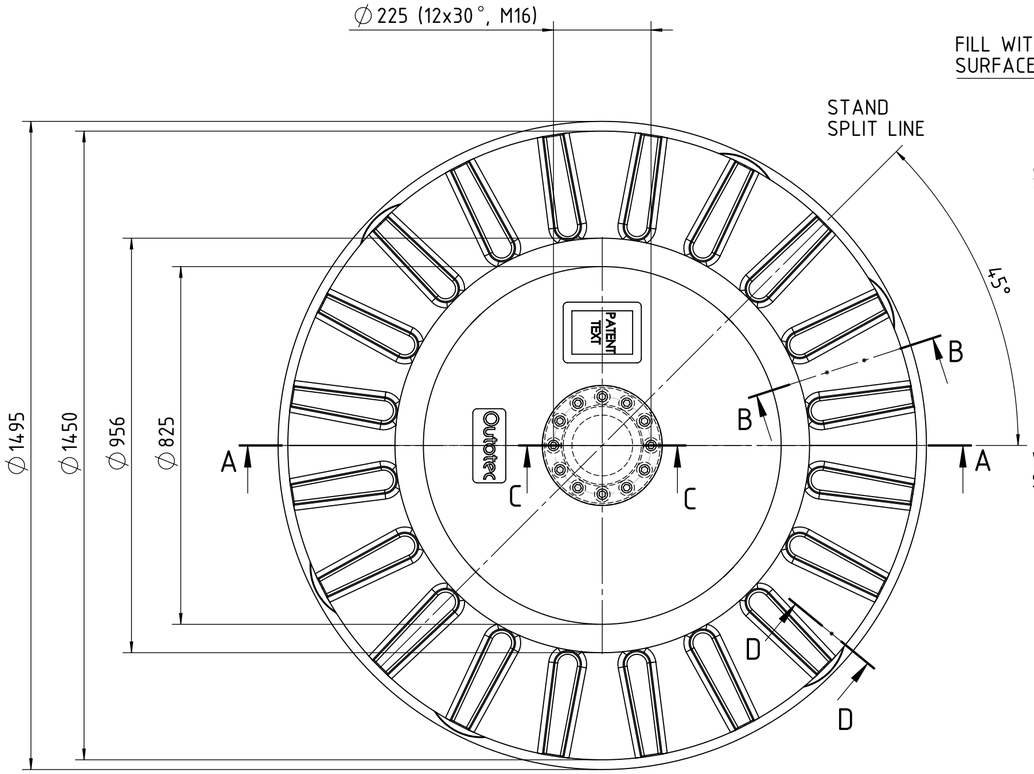
L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
2	01		10380550, 2	ROTOR FloatForce® 825			1 (EA)	125 125	
2	02		10393846, 1	WEAR PLATE FloatForce® 825			1 (EA)	229 229	
2	03		N031012983, 3	STATOR STAND FloatForce® 825			1 (EA)	190 190	
2	04		N031013027, 2	STATOR WEAR PARTS FloatForce® 825			1 (EA)	376 376	

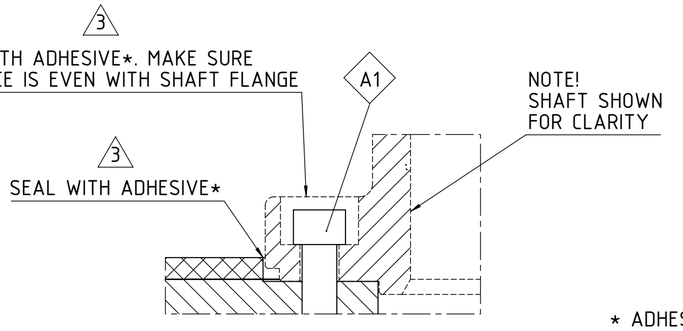




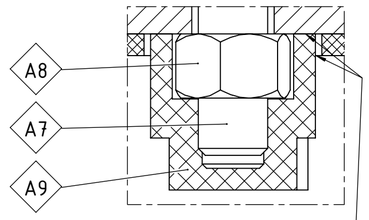
SECTION D-D
SCALE 1 : 3







SECTION C-C
SCALE 1 : 2



SECTION B-B
SCALE 1 : 1

3

* ADHESIVE TO BE USED SIKAFLEX 221 OR EQUIVALENT

SEE TIGHTENING TORQUES FROM SPECIFIED DOCUMENT

FASTENER LIST

PART	DESCRIPTION	QTY
A9	CAP	12
A8	HEXAGON NUT ISO 4032 - M16 - A4-70	12
A7	STUD DIN 938 - M16x45 - A4-70	12
A6	WASHER ISO 7089 M20 200 HV A4	12
A5	HEX HEAD BOLT ISO 4014 - M20x100 - A4-70	12
A4	HEXAGON NUT ISO 4032 - M20 - A4-70	12
A3	CAP	12
A2	HOLLOW BAR EN 10294-1 - Ø32/22x21	12
A1	HEX SOCKET HEAD CAP SCREW ISO 4762 - M16x35 - A4-70	12

REV.	PREPARED NAME	PREPARED DATE	CHECKED NAME	CHECKED DATE	APPROVED NAME	APPROVED DATE	REVISION TEXT
0	mikiha	28.03.2014	juspel	31.03.2014	juhkau	31.03.2014	FOR FABRICATION
1	marraj	16.12.2014	mikiha	22.12.2014	alepel	22.12.2014	DRAWING REVISED, FASTENER LIST ADDED
2	marraj	08.12.2016	jertuo	08.12.2016	zakmon	08.12.2016	FASTENER LIST UPDATED
3	marraj	19.12.2017	tonjuv	04.01.2018	jertuo	13.02.2018	ADHESIVE CHANGED & ADHESIVE INFO ADDED

Outotec

DOCUMENT TITLE

ASSEMBLY DRAWING

FLOTATION MECHANISM

FloatForce® 825

REPLACED BY

REPLACES

LANGUAGE	UNITS	SCALE	SIZE	SHEET OF SHEETS
EN	mm	1:10	A2	1 / 1

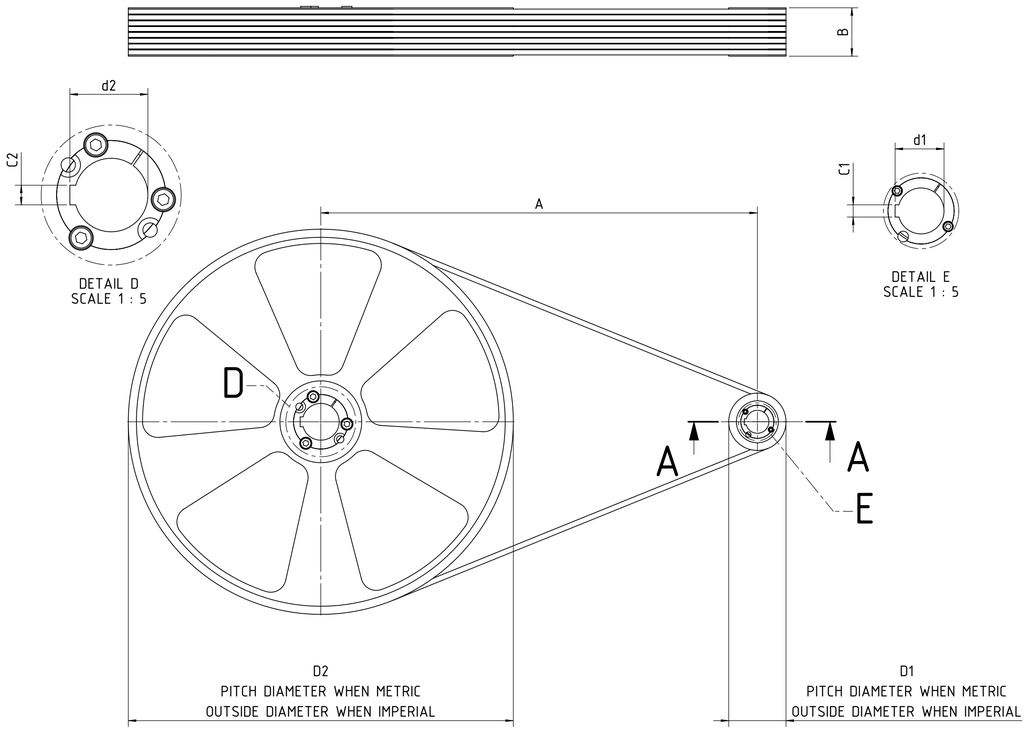
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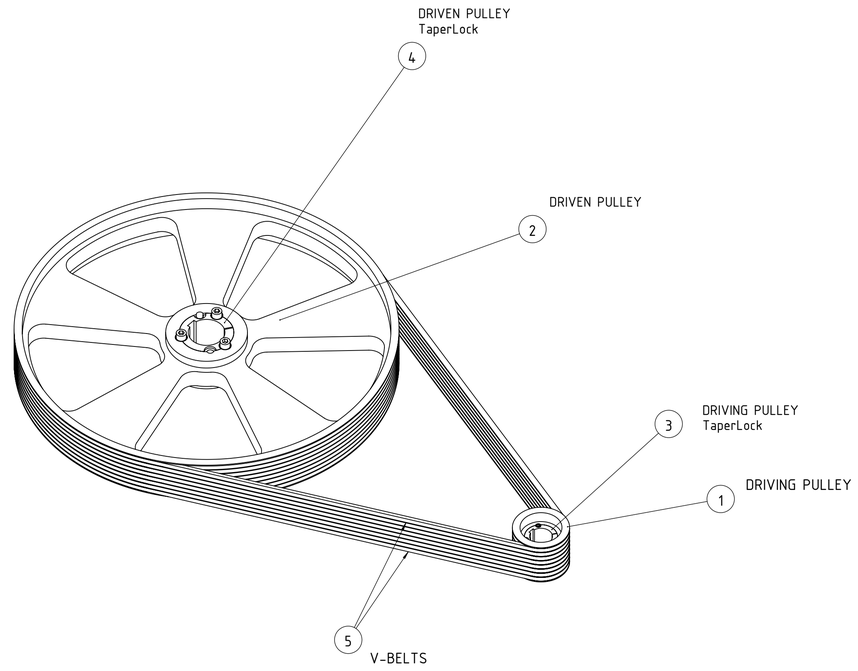
DOCUMENT ID OU600400701

REVISION 3

Item Number, rev.: **N031241936, 1** Item Description: **V-BELT PULLEY SET** Related Documents: **OU601801509, 0 (Assembly Drawing)**	Weight: 253kg	Customer:

L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
2	01		623361, 1	V-BELT PULLEY Ø180x8 W/O TLB			1 (EA)	12 12	
2	02		623362, 1	V-BELT PULLEY Ø1250x8			1 (EA)	223 223	
2	03		610960, 1	TAPER-LOCK BUSHING Ø75mm			1 (EA)	2.1 2.1	
2	04		605977, 1	TAPER-LOCK BUSHING Ø120mm			1 (EA)	9.9 9.9	
2	05		521254, 1	V-BELT 5300mm			8 (EA)	1.1 8.5	





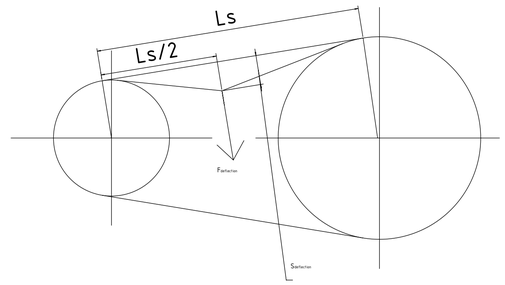
GENERAL TOLERANCES
ISO 2768-1 EN ISO 13920 EN ISO 9013 DIN 6935

Values in millimetres

	Basic size range											
LINEAR DIMENSIONS	< 0,5 ± 3	> 3 ± 6	> 6 ± 30	> 30 ± 120	> 120 ± 400	> 400 ± 1000	> 1000 ± 2000	> 2000 ± 4000	> 4000 ± 8000	> 8000 ± 12 000	> 12 000 ± 16 000	> 16 000 ± 20 000	> 20 000
Machining ISO 2768-m Chamfers and external radii	± 0,1 ± 0,2	± 0,1 ± 0,5	± 0,2 ± 1	± 0,3	± 0,5	± 0,8	± 1,2	± 2					
Welding ISO 13920-B	± 1 (Range 2–30)			± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16
Thermal cutting ISO 9013-2	± 3 < 10		± 10 < 35	± 35 < 125	± 125 < 315	± 315 < 1000	± 1000 < 2000	± 2000 < 4000	Quality of cut surface ISO 9013-44				
3,15 < t ≤ 6,3	± 0,7		± 0,8	± 0,9	± 1,1	± 1,2	± 1,3	± 1,3					
6,3 < t ≤ 10	± 1		± 1,1	± 1,3	± 1,4	± 1,5	± 1,6	± 1,7					
10 < t ≤ 50	± 1,8		± 1,8	± 1,8	± 1,9	± 2,3	± 3	± 4,2					

ANGULAR DIMENSIONS	Shorter side ≤ 10	> 10 ≤ 50	> 50 ≤ 120	> 120 ≤ 400	> 400 ≤ 1000	> 1000
Machining ISO 2768-m	± 1°	± 0°30'	± 0°20'	± 0°10'	± 0°5'	
Welding ISO 13920-B	± 13 mm/m				± 9 mm/m	± 6 mm/m
Bending	SEE DIN 6935					
GEOMETRICAL TOLERANCES	Machining ISO 2768-K Welding ISO 13920-F					

BELT TENSIONING



INSERT V-BELTS MANUALLY TO PULLEY GROOVES.

PUSH V-BELTS LOOSE SECTION TO OTHER SIDE OF THE DRIVE.

ADJUST DRIVE´S CENTER DISTANCE UNTIL V-BELTS ARE TIGHT AND ROTATE DRIVE MANUALLY COUPLE OF TIMES.

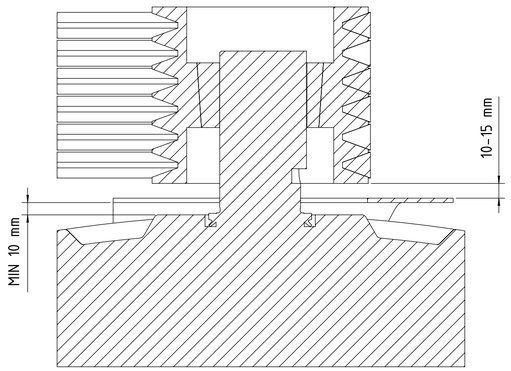
NOW SET CORRECT BELT TENSIONING FORCE: ADJUST DRIVE´S CENTER DISTANCE SO THAT BELT´S DEFLECTION FORCE AND DEFLECTION MATCH TABLE VALUES. DRIVE´S TIGHTENING IS CORRECT WHEN AVERAGE OF DEFLECTION FORCES IS BETWEEN VALUES Fdef.min AND Fdef.max.

RUN DRIVE 2-5 MINUTES AND RETIGHTEN BELTS IF NECESSARY.

CHECK BELT TENSIONING AFTER 24 HOURS OF USE.

TankCell® MODULE	A [mm/inch]	B [mm/inch]	D1 [mm/inch]	DRIVING PULLEY TaperLock	d1 [mm/inch]	C1 [mm/inch]	D2 [mm/inch]	DRIVEN PULLEY TaperLock	d2 [mm]	C2 [mm]	Number of belts	V-BELT	Fdefl.min [N/belt]	Fdefl.max [N/belt]	Sdeflection [mm/inch]
TankCell® e30 vDrive IEC (50 Hz)	1426,56 mm 56,16 in	158 mm 6,22 in	180 mm 7,09 in	TL3030x75	79,9 mm 3,15 in	20 mm 0,79 in	1250 mm 49,21 in	TL5050x120	127,4 mm 5,02 in	32 mm 1,26 in	8	SPB 5300	31,85	38,93	19,91 mm 0,78 in

TaperLock	Tightening torque [Nm]
TL1008/1108	5,6
TL1210/1215/1610/1615	20
TL2012	30
TL2517/2525	50
TL3020/3030	90
TL3525/3535	115
TL4030/4040	170
TL4535/4545	190
TL5040/5050	270
TL6050/7060/8065	884



SECTION A-A
EXAMPLE VIEW OF PULLEY INSTALLATION

- INSTALL THE DRIVEN PULLEY BY LOWERING IT AGAINST THE SHOULDER ON THE BEARING UNIT SHAFT
- MAKE SURE TO LEAVE MINIMUM OF 10mm GAP BETWEEN PULLEY AND BELT GUARD BOTTOM
- IF THE DRIVEN PULLEY IS TOO CLOSE TO THE BELT GUARD BOTTOM, USE BUSHING TO CREATE SUFFICIENT GAP
- ALSO THE GAP BETWEEN THE MOTOR AND THE BELT GUARD BOTTOM SHOULD BE ABOUT 10mm TO AVOID ANY COLLISION

REV.	NAME	DATE	NAME	DATE	NAME	DATE	
	PREPARED		CHECKED		APPROVED		REVISION TEXT
0	vestyn	15.12.2021	pasraj	25.01.2022	pekkall	25.01.2022	FOR FABRICATION

Metso:Outotec

DOCUMENT TITLE
ASSEMBLY DRAWING
V-BELT PULLEY SET
TankCell® e30

REPLACED BY

REPLACES

LANGUAGE	UNITS	SCALE	SIZE	SHEET OF SHEETS
EN	mm	1:10	A1	1 / 1

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REVISION 0