

MASTER OF TREATMENT



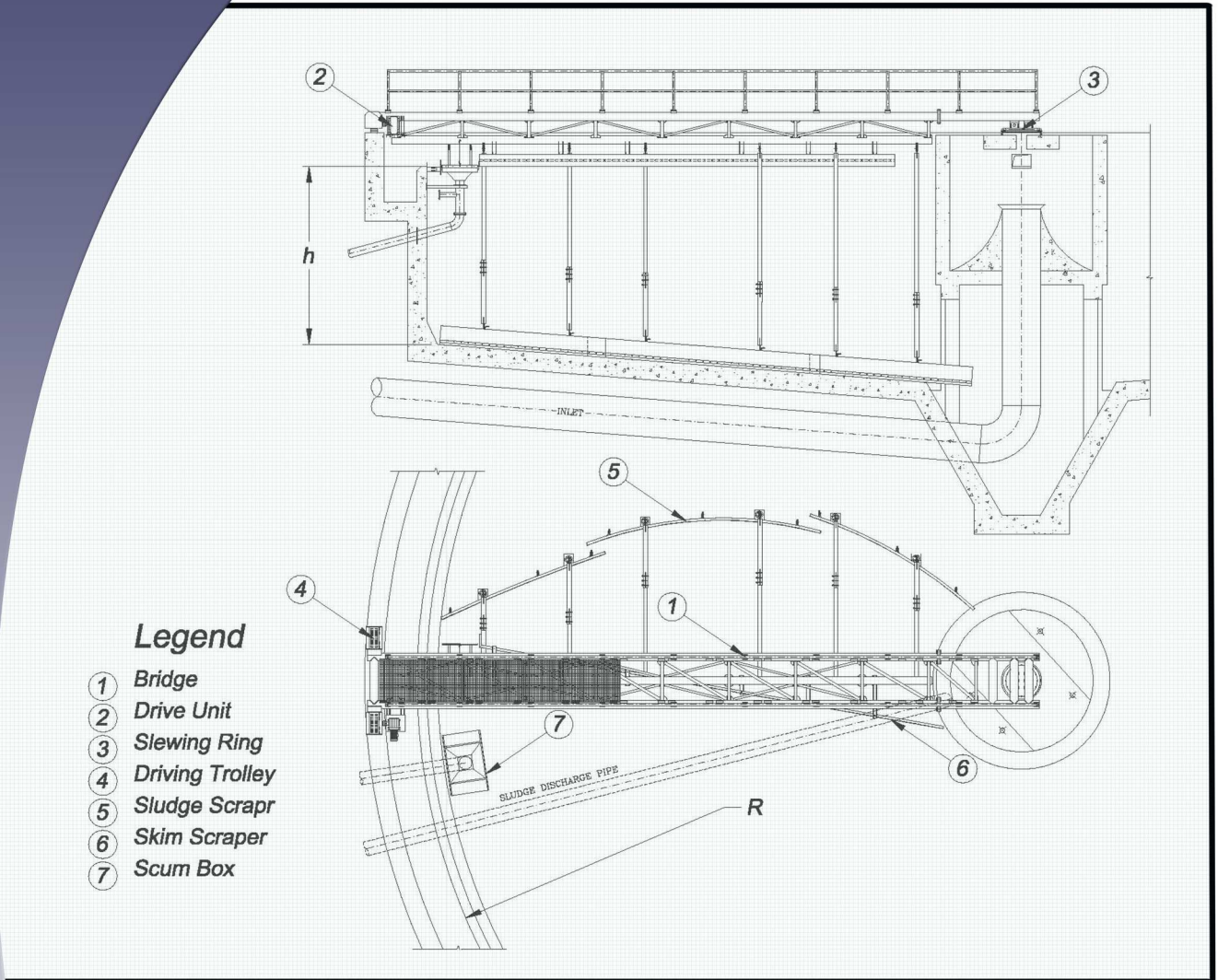
UMMAB

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Head office:
No. 114, Kajabadi St., Africa Ave.,
Tehran, Iran
Tel.: 021-28111019
info@ummab.com

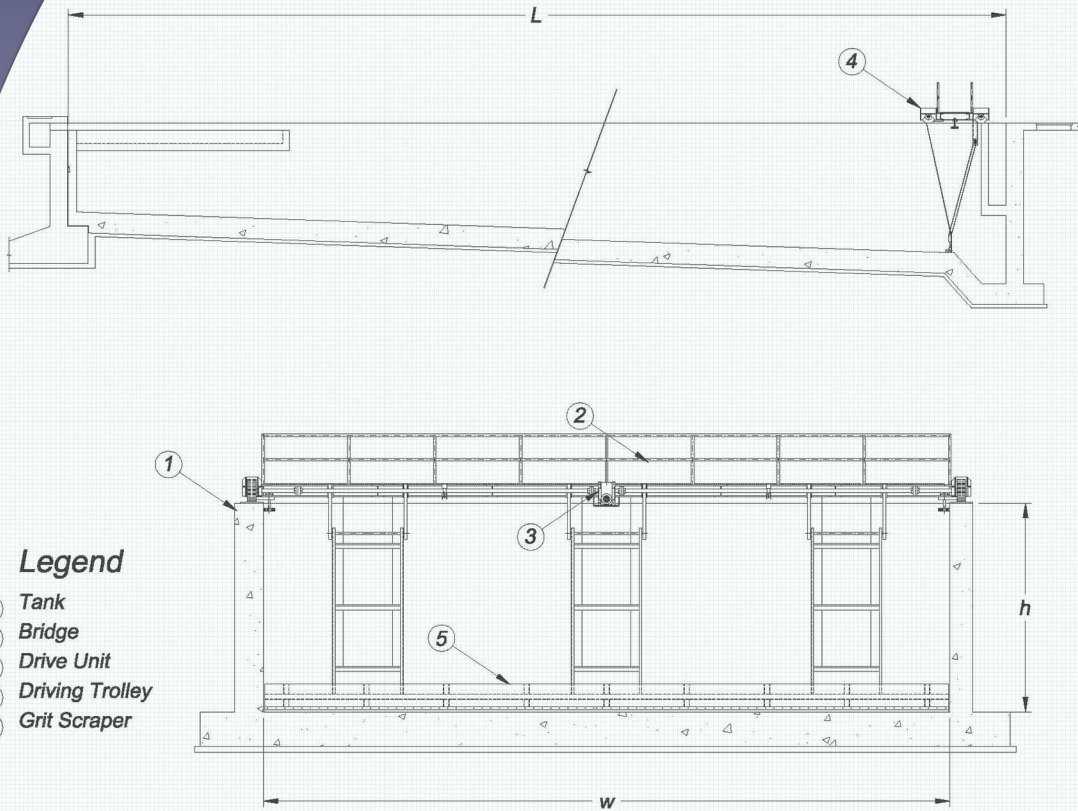
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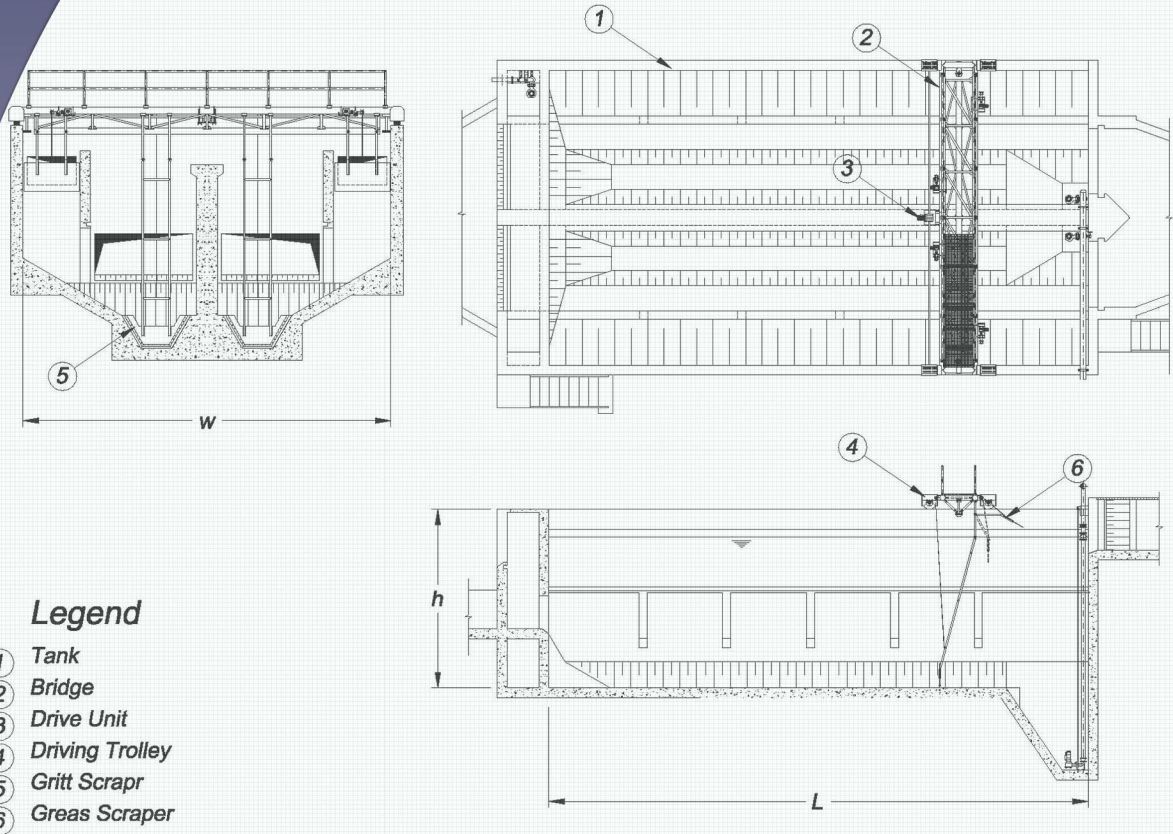
UM- BSCC - UMMAB BRIDGE SCRAPER FOR CIRCULAR CLARIFIER

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA														
UM-BSCC	TANK DIAMETER (d)	m	6	10	12	16	18	24	28	30	32	34	40	46	50	56	60
	TANK HEIGHT (h)	m	1.8			2.2			3			3.5		4	4.5	5	
	MAX TANK VOLUME	m3	50-14000														
	PERIPHERAL SPEED	m/min	1.9-3.3														
	POWER SUPPLY	Kw	0.37						0.55					0.75			1.1



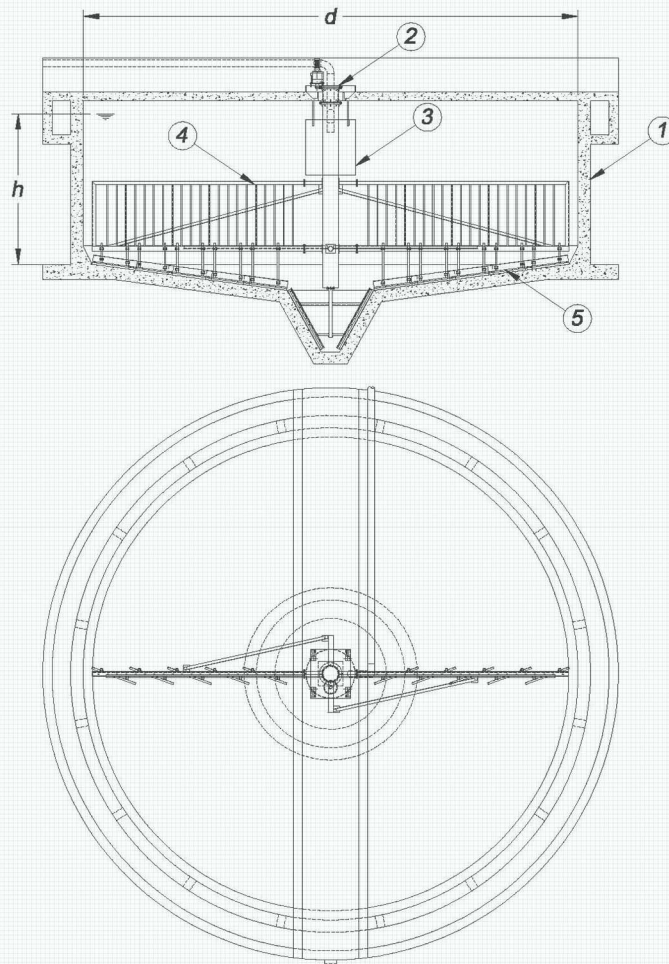
UM-BSRP - UMMAB BRIDGE SCRAPER FOR RECTANGULAR PERSESTLING TANK

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA											
UM-BSRP	TANK WIDTH (w)	m	3	3.5	4	5	6	7	8	9	10	11	12	
	TANK LENGTH (L)	m	10_50											
	TANK HEIGH (h)	m	2_5											
	TANKVOLUME	m	60_3000											
	TRAVELING SPEED	m/min	1_2.5											
	POWER SUPPLY	Kw	0.55	0.55	0.75	0.75	0.75	1.1	1.1	1.5	1.5	1.5	1.5	



UM-GRB - UMMAB GRITT & GREAS REMOVAL BRIDGE

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA
UM-GRB	TANK WIDTH(w)	m	1.5 - 12
	TANK LENGTH(L)	m	10 - 45
	TANK DEPTH (h)	m	2.7- 5.5
	TRAVELING SPEED	m/min	1.2 - 2
	POWER SUPPLY	Kw	0.75 - 2

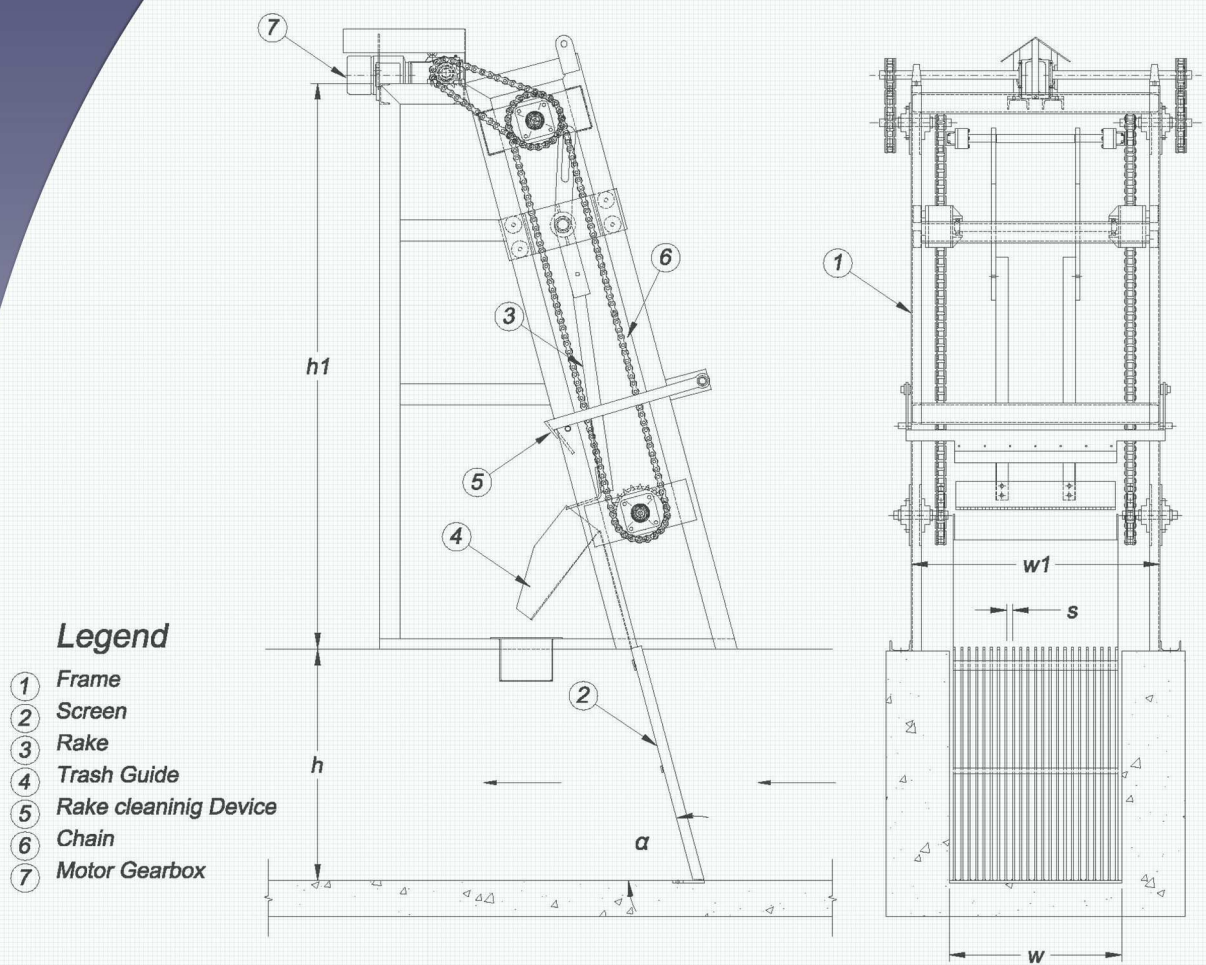


Legend

- ① Tank
- ② Drive Unit
- ③ Feeding Cylinder
- ④ Bottom Scraper
- ⑤ Mixer

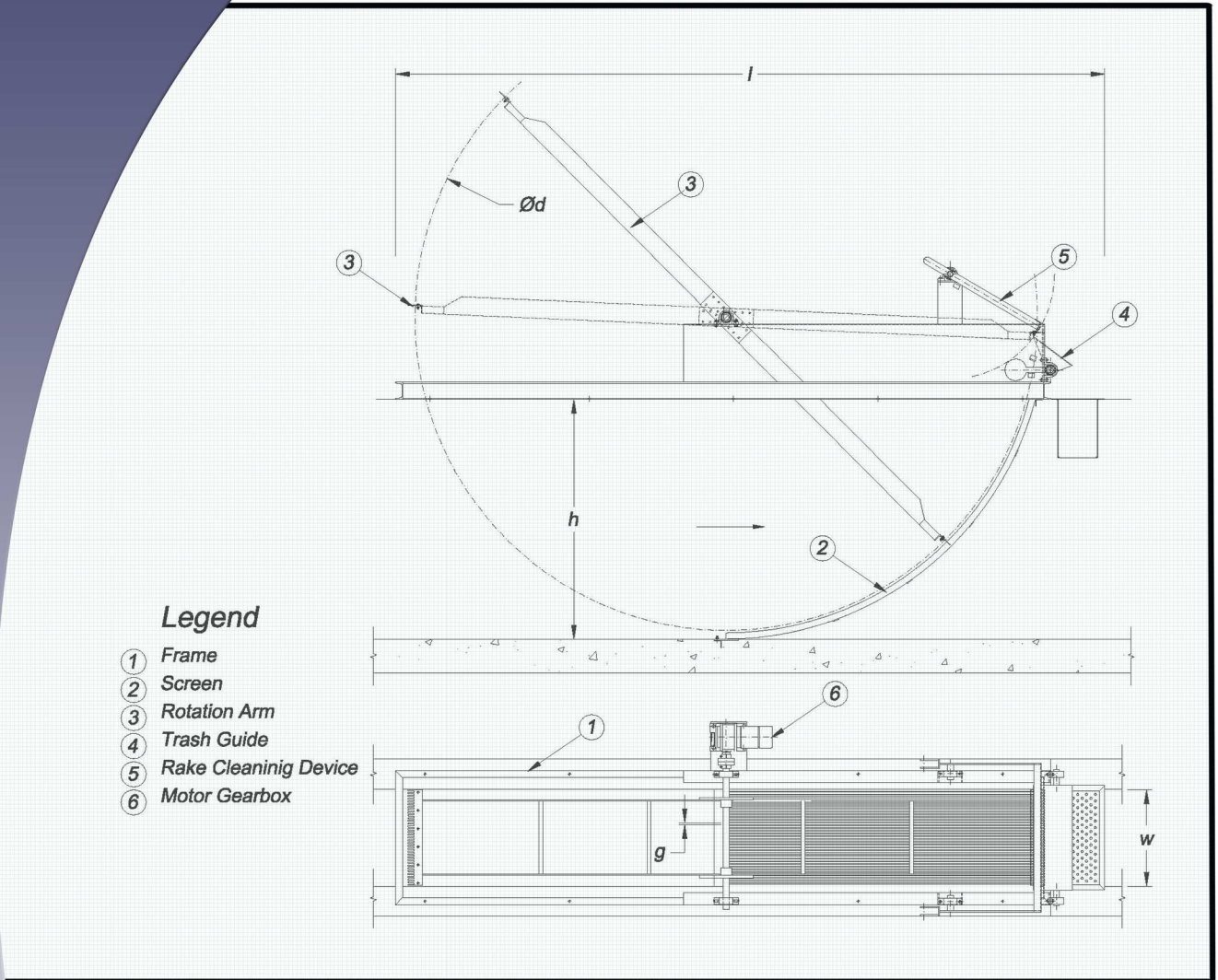
UM-STM - UMMAB SLUDGE THICKENER MIXER

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA															
UM-STM	TANK DIAMETER(d)	mm	2500	3000	4000	5000	6000	7000	8000	9000	10000	12000	14000	16000	18000	20000		
	HEIGHT (h)	mm	3000	3000	3000	3000	3000	3000	3000	4000	4000	4000	4500	4500	4500	4500		
	TANK SURFACE	m ²	4.9	7	12.6	19.6	28.3	38.5	50	64	78	113	154	201	254	314		
	TANK VOLUME	m ³	15	21	38	59	85	115	150	256	312	452	693	904	1143	1413		
	NOMINAL ROTATION UNIT TORQUE	daNm	175	252	448	700	1008	1372	1792	2268	2800	4032	5488	7168	9072	11200		
	PERIPHERAL SPEED	m/min	0.8	1	1	1	1	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4		
	POWER SUPPLY	Kw	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.37	0.37	0.37	0.55	0.55	0.75	1.1		



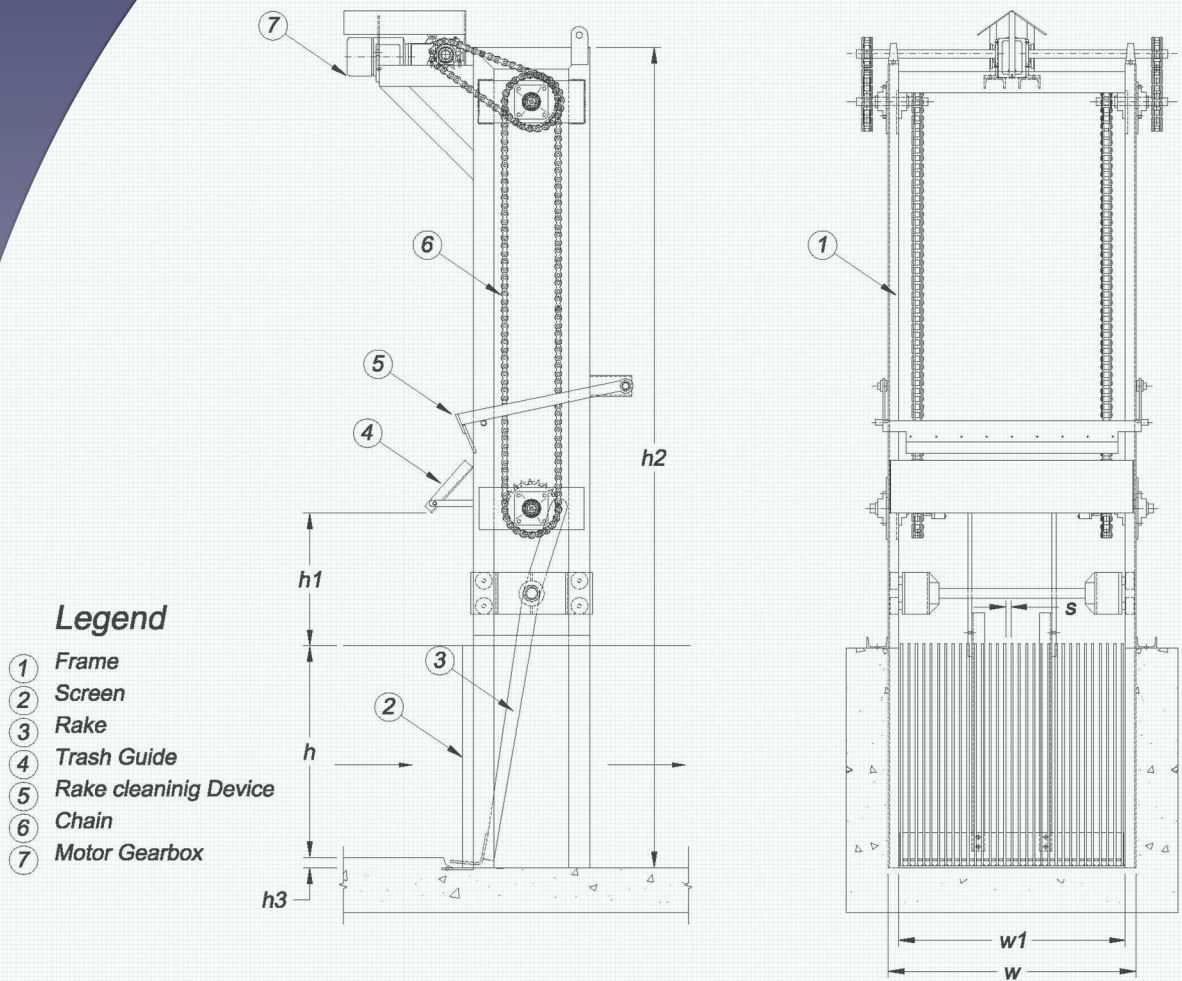
UM-IMS - UMMAB INCLINE MECHANICAL SCREEN

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA
UM-IMS	CHANNEL WIDTH(w)	m	0.5_3
	CHANNEL HEIGHT(h)	m	0.5_3
	SCREEN PANEL(w1)	m	w+0.38
	FRAME HEIGHT(h1)	m	2*h+0.50
	INCLINATION REFERRED TO VERTICAL(α)	°	15_30
	FILTERING GAP (g)	mm	10_50
	POWER SUPPLY	Kw	0.55_2.2



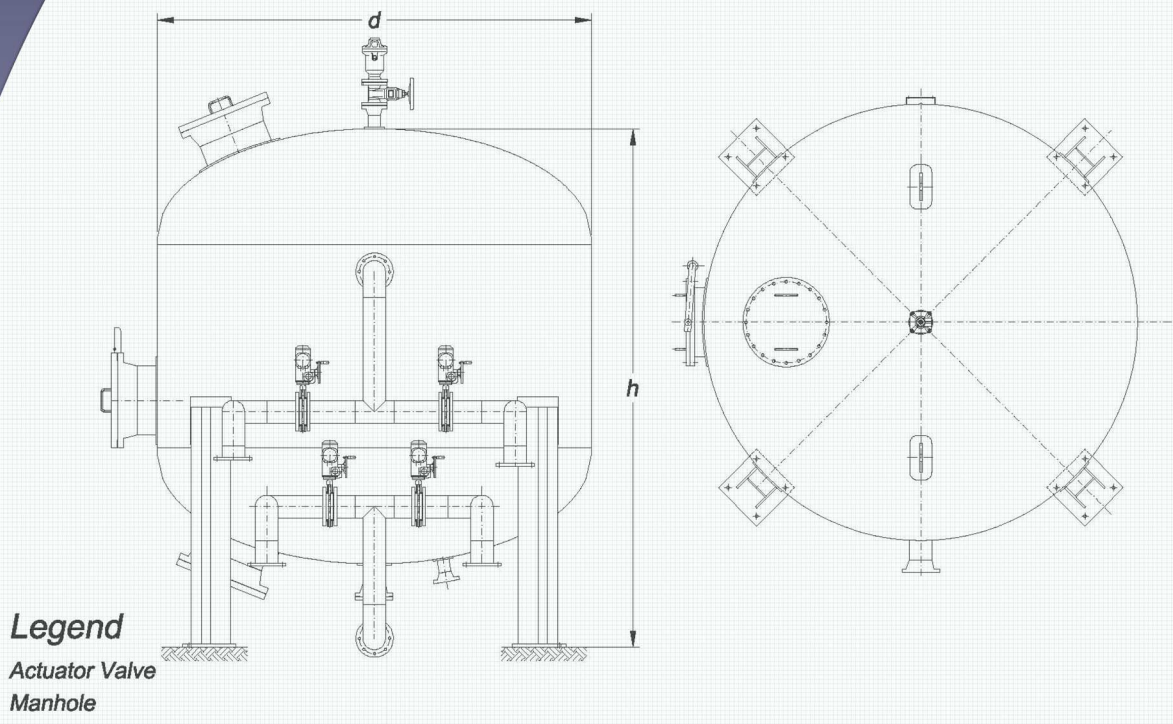
UM-CMS - UMMAB CURVED MECHANICAL SCREEN

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA					
UM-CMS	MODEL		018	022	024	026	032	046
	CHANNEL WIDTH (w)	mm	200_600	300_1000	400_1200	400_1600	1200_2000	1500_000
	CHANNEL HEIGHT (h)	mm	600	800	900	1000	1300	2000
	OVERAL DIAMETER (d)	mm	1800	2200	2400	2600	3200	4600
	MAX LENGTH (l)	mm	2500	2900	3100	3300	3900	5300
	FILTERING GAP (g)	mm	15-50	15-50	15-50	15-60	15-60	15-60
	POWER SUPPLY	Kw	0.12_0.25	0.25_0.37	0.37-0.75	0.55-1.1	1.5	1.5_3



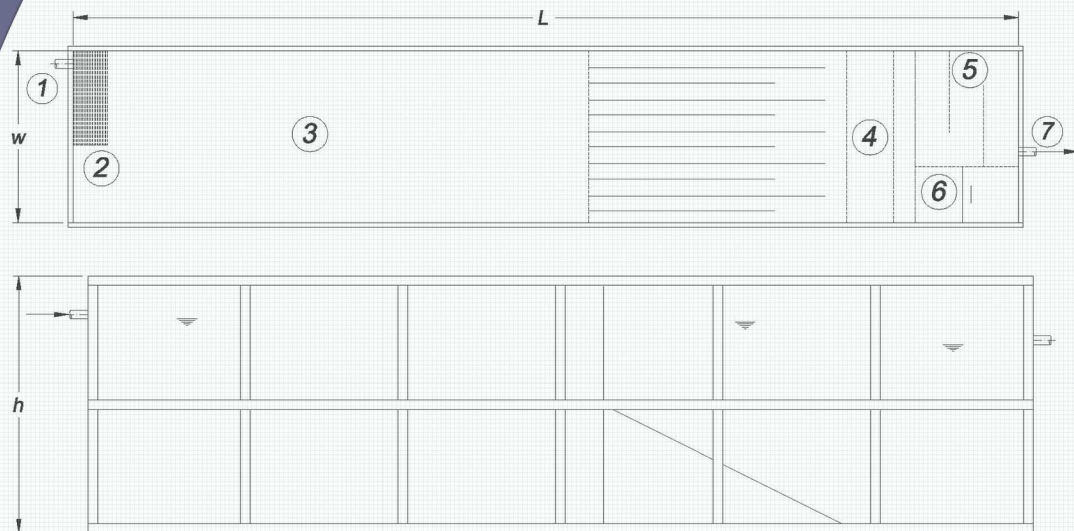
UM-VMS - UMMAB VERTICAL MECHANICAL SCREEN

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA
UM-NMS	CHANNEL WIDTH(w)	m	0.5_3
	CHANNEL HEIGHT(h)	m	0.5_3
	SCREEN PANEL(w1)	m	w-0.1
	DISCHARGE HEIGHT(h1)	m	h+0.65
	MAX HEIGHT(h2)	m	3*h+0.75
	CHANNEL STEP HEIGHT(h3)	m	0.1
	FILTERING GAP (g)	mm	10_50
	POWER SUPPLY	Kw	0.55_2.2



UM-FWA - UMMAB SAND WATER FILTER

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA									
UM-FCA	MODEL		5	10	15	20	25	30	38	45	70	96
	DIAMETER(d)	mm	800	1200	1400	1600	1800	2000	2200	2400	3000	3500
	HEIGHT(h)	mm	1900	2000	2200	2600	2800	3000	3900	4100	4500	4700
	INLET / OUTLET PIPING PN 10	DN	50	50	65	80	100	125	150	150	150	200
	FILTERING BED SURFACE	m ²	0.5	1.13	1.54	2.01	2.54	3.14	3.8	4.52	7.07	9.62
	EMPTY WEIGHT	daN	486	872	1043	1389	1713	2072	2767	3220	4661	5964
	WORKING WEIGHT	daN	1140	2456	3506	5410	7312	9611	15311	19053	32228	45411

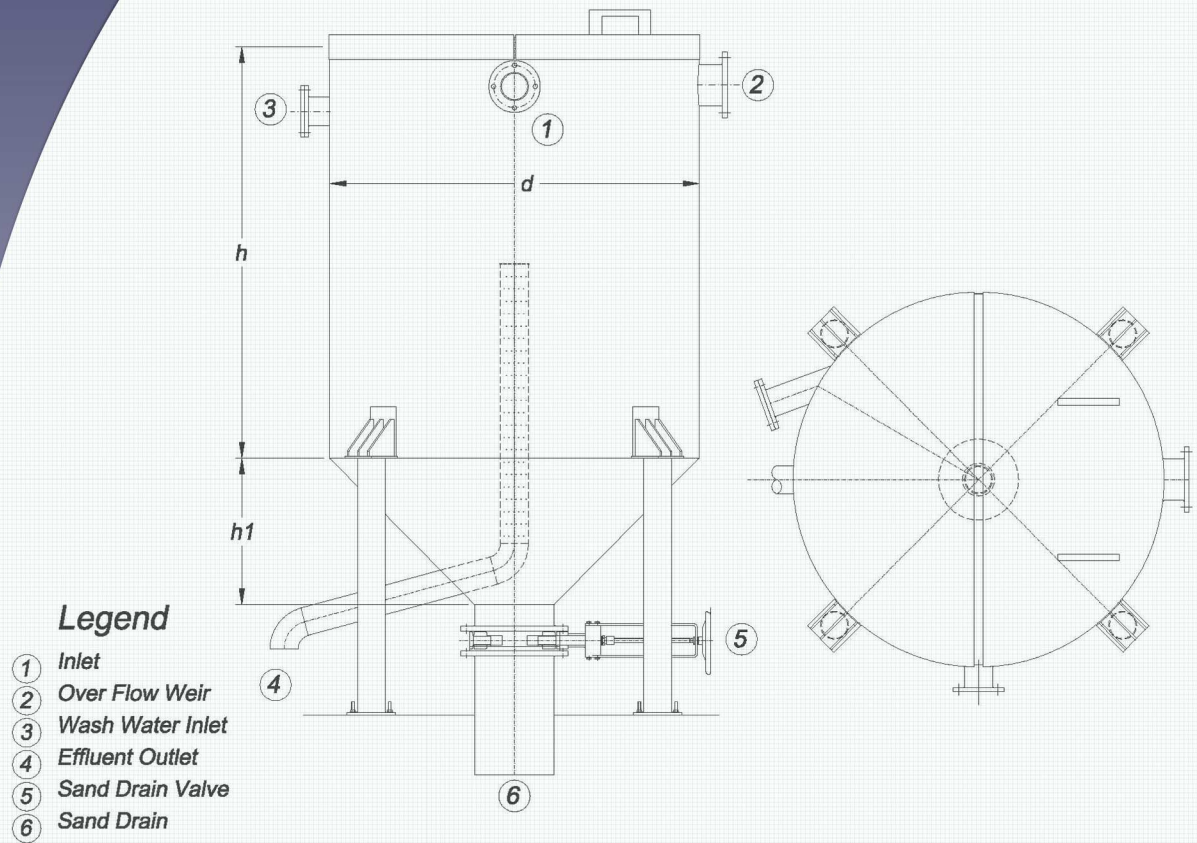


Legend

- ① Inlet
- ② Screen
- ③ Aeration Basin
- ④ Secondary Clarifier
- ⑤ Chlorination Basin
- ⑥ Sludge Holding Tank
- ⑦ Outlet

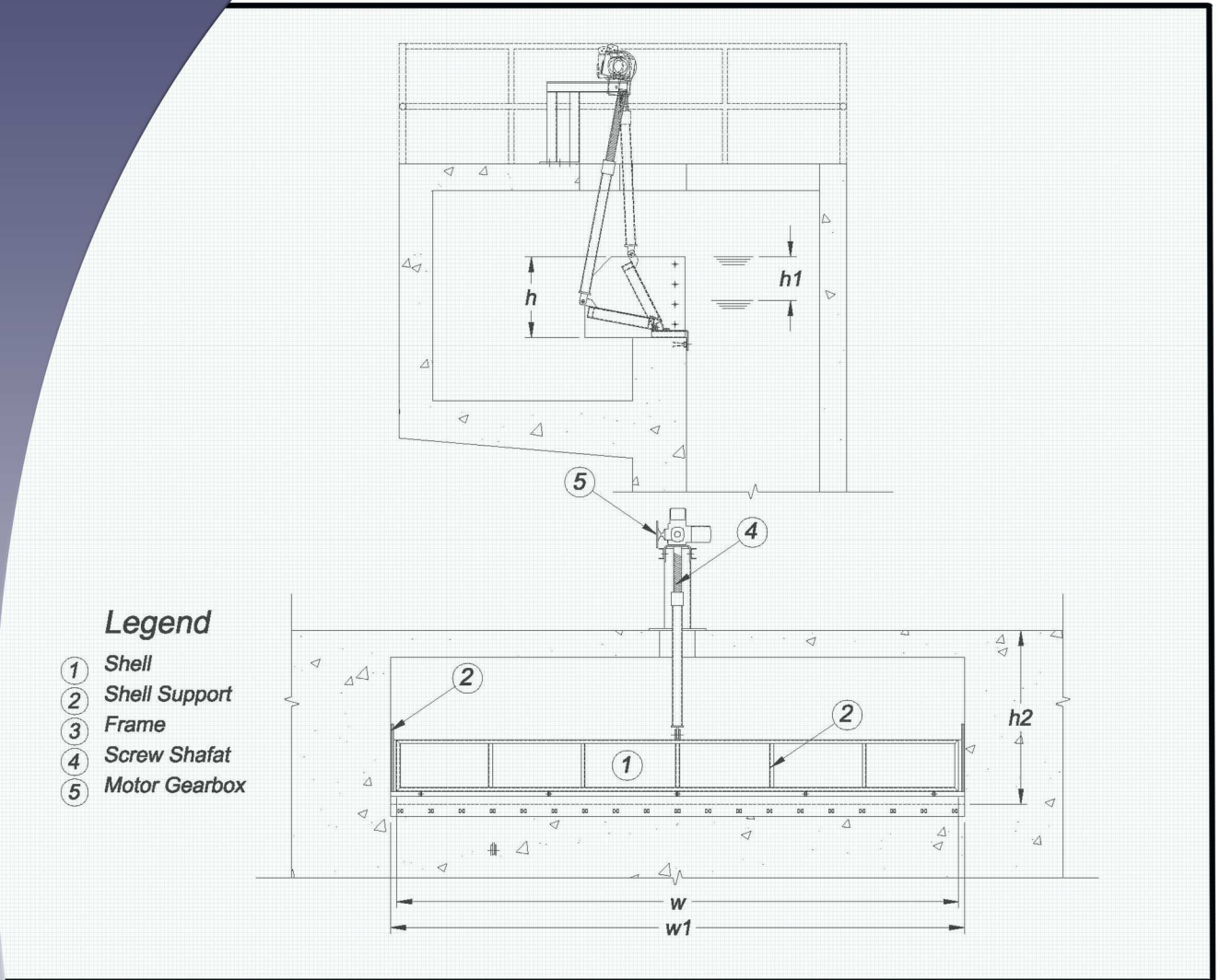
UM-PSTP - UMMAB PACKAGE SEWAGE TREATMENT PLANT

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA																							
UM-PSTP	MODEL		001	005	010	015	020	030	040	050	060	080	100	120	140	160	180	200	250	300	350	400				
	CAPACITY	m ³ /day	1	5	10	15	20	30	40	50	60	80	100	120	140	160	180	200	250	300	350	400				
	LOAD BOD 5	kg/day	0.3	1.5	3	4.5	6	9	12	15	18	24	30	36	42	48	54	60	75	90	105	120				
	LOAD TSS	kg/day	0.35	1.75	3.5	5.25	7	10.5	14	17.5	21	28	35	42	49	56	63	70	87.5	105	123	140				
	VOLUME AERATION	m ³	1	5	10	15	20	30	40	50	60	80	100	120	140	160	180	200	250	300	350	400				
	AREA SEDIMENTATION	m ²	0.2	1	2	3	4	6	8	10	12	18	20	14	28	32	36	40	50	60	70	80				
	LENGTH	m	1.4	2.4	4.8	5	6.6	9.9	13.2	11	13.2	13.1	13.2	15.9	18.5	21.1	23.8	26.4	22	26.4	30.8	35.2				
	WTDTH	m	1	2	2	2	2	2	2	3	3	4	4	4	4	4	4	4	6	6	6	6				
	HEIGHT	m	1.5	2	2	3	3	3	3	3	3	3.5	4	4	4	4	4	4	4	4	4	4				
	VOLUME DIGESTION	m ³	0.1	0.5	1	1.5	2	3	4	5	6	9	10	12	14	16	18	20	25	30	35	40				
	VOLUME CHLORINATION	m ³	0.05	0.25	0.5	0.75	1	1.5	2	2.5	3	4.5	5	6	7	8	9	10	12.5	15	17.5	20				
	AIR REQUIREMENT	m ³ /h	4	20	40	60	80	120	160	200	240	360	400	420	490	560	630	700	750	900	1050	1200				



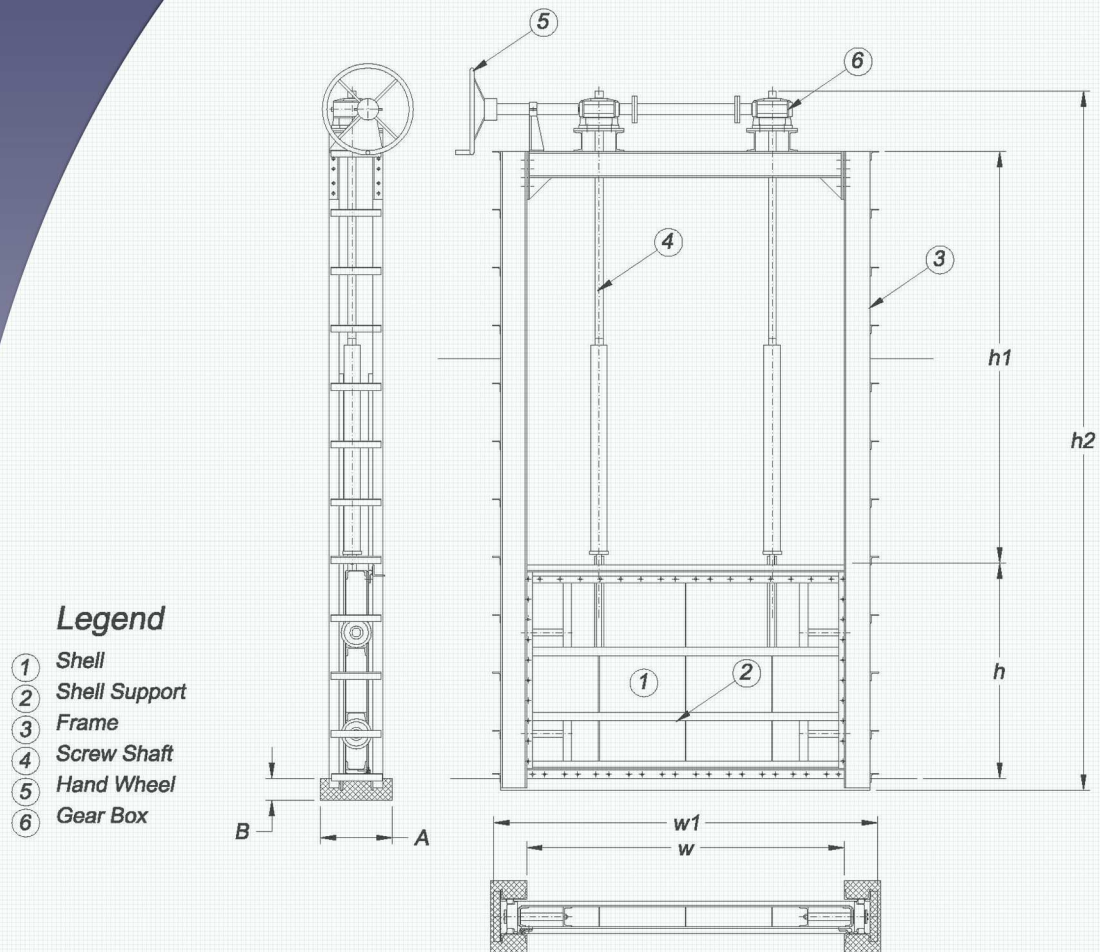
UM-SS - UMMAB SAND SILO

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA				
UM-SS	MODEL		001	003	005	007	010
	VOLUME	m3	1	3	5	7	10
	DIAMETER(d)	mm	1000	1500	1900	2000	2400
	SHELL HEIGHT(h)	mm	1000	1500	1500	1900	1900
	CONE HEIGHT(h)	mm	400	625	800	825	1000
	SAND DRAIN SIZE	DN	200	250	300	350	400
	INLET PIPING PN 10	DN	80	100	150	200	250



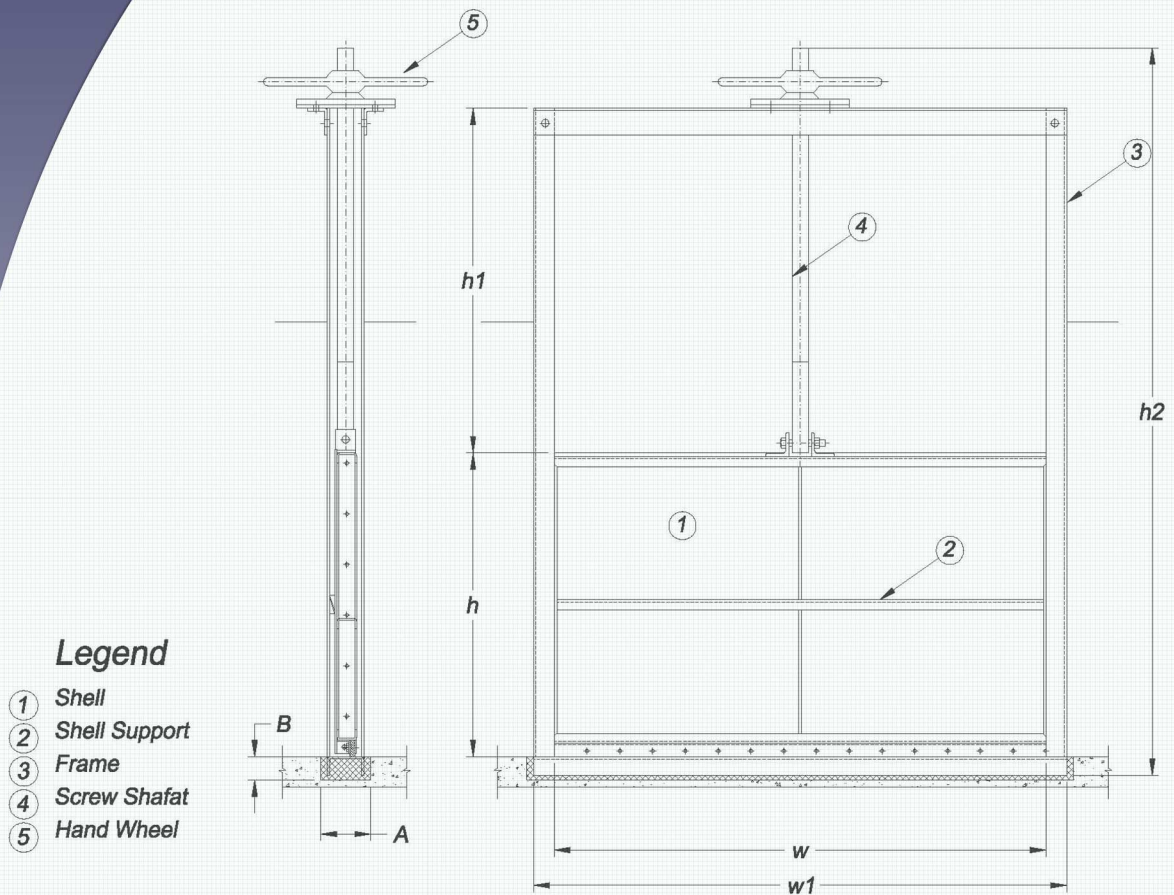
UM-AWG - UMMAB ADJUSTABLE WEIR GATE

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA	
UM-AWG	MODEL		AWG	AWGA
	WEIR WIDTH(w)	mm	1000*8000	1000+8000
	WDTH(w1)	mm	w+300	w+300
	RUN HEIGHT(h1)	mm	100_500	100_500
	WEIR HEIGHT(h2)	mm	h1+300	h1+300
	TOTAL HEIGHT(h2)	mm	VARIABLE	VARIABLE
	POWER SUPPLY	Kw	//	0.37_2.2



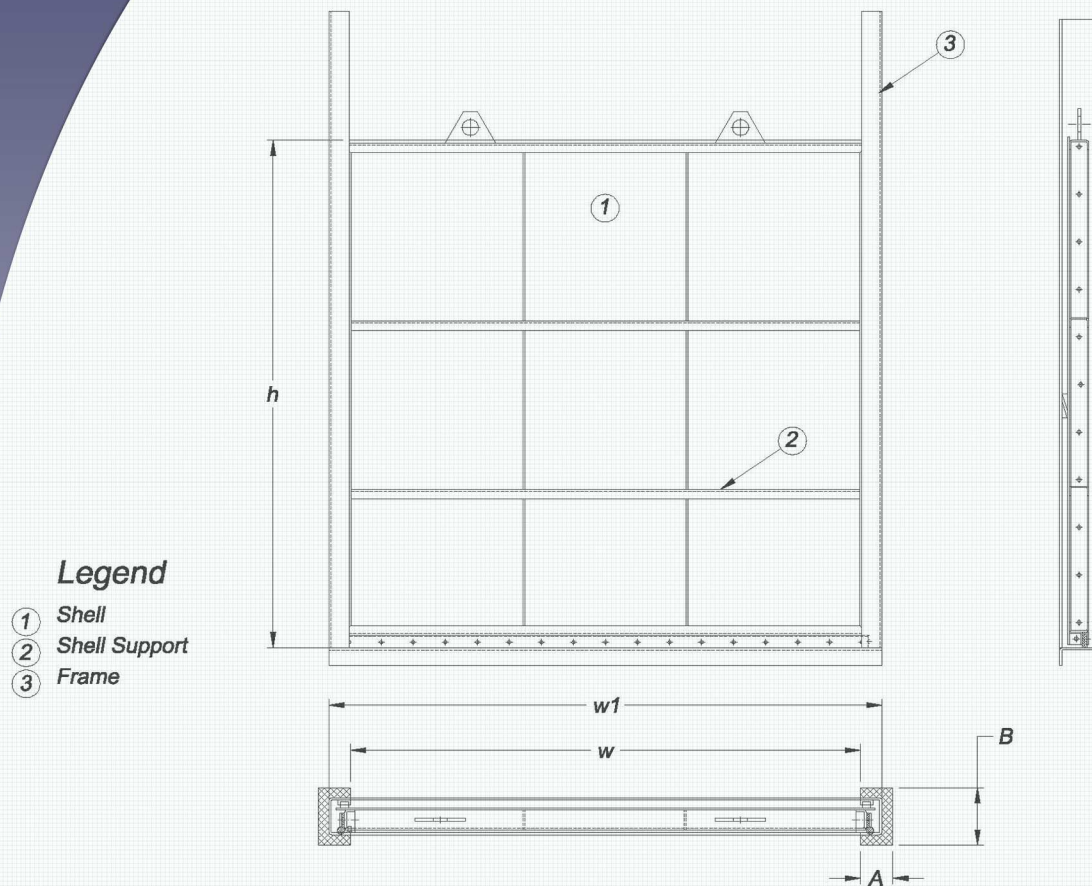
UM-DSSG - UMMAB DOUBLE SCREW SLUICE GATE

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA		
UM-DSSG	SERIE		LIGHT	MEDIUM	HEAVY
	OPENING WIDTH(w)	mm	2000_4000	2000_4000	2000_4000
	WIDTH(w1)	mm	w+200	w+300	w+400
	OPENING HEIGHT(h)	mm	600_1700	600-3000	600_4000
	HEIGHT(h1)	mm	h+300	h+350	h+400
	TOTAL HEIGHT(h2)	mm	2h+600	2h+700	2h+850
	A	mm	300	400	500
	B	mm	150	150	200
	POWER SUPPLY	Kw	0.37_1.5	0.55_2.2	0.75_3
	SEALING		3-4SIDES	3-4SIDES	3-4SIDES



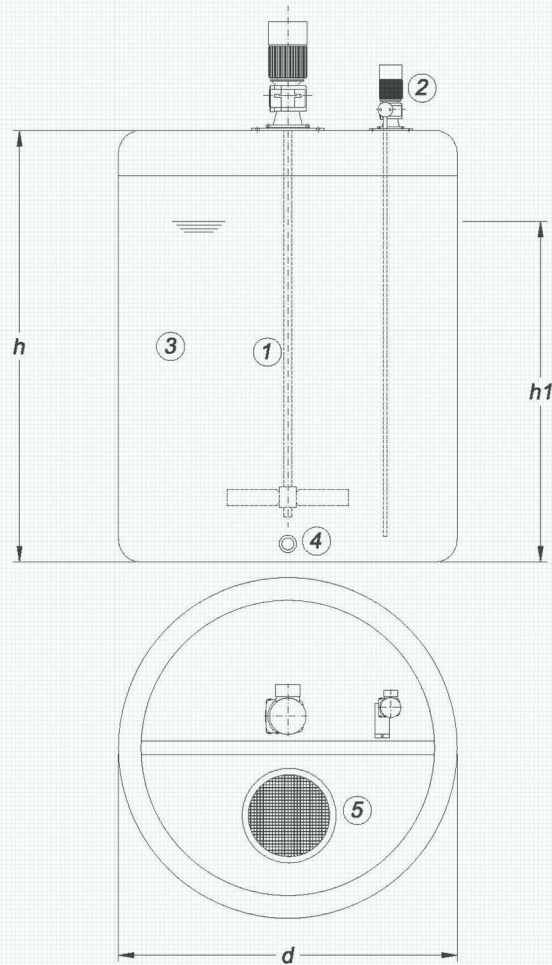
UM-MSG - UMMAB MNUAL SLUICE GATE

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA
UM-MSG	OPENING WIDTH(w)	mm	300_1200
	WIDTH(w1)	mm	w+200
	OPENING HEIGHT(h)	mm	200_1200
	HEIGHT(h1)	mm	h+300
	TOTAL HEIGHT(h2)	mm	2h+500
	A	mm	200
	B	mm	150
	SEALING	-	3_4SIDES



UM-SLG - UMMAB STOP LOG GATE

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA		
UM-SLG	OPENING WIDTH(w)	mm	200_500	500_1200	1200_2000
	WDTH(w1)	mm	w+300	w+400	w+500
	OPENING HEIGHT(h)	mm	200_500	500-1200	1200_2000
	A	mm	100	150	200
	B	mm	100	150	200

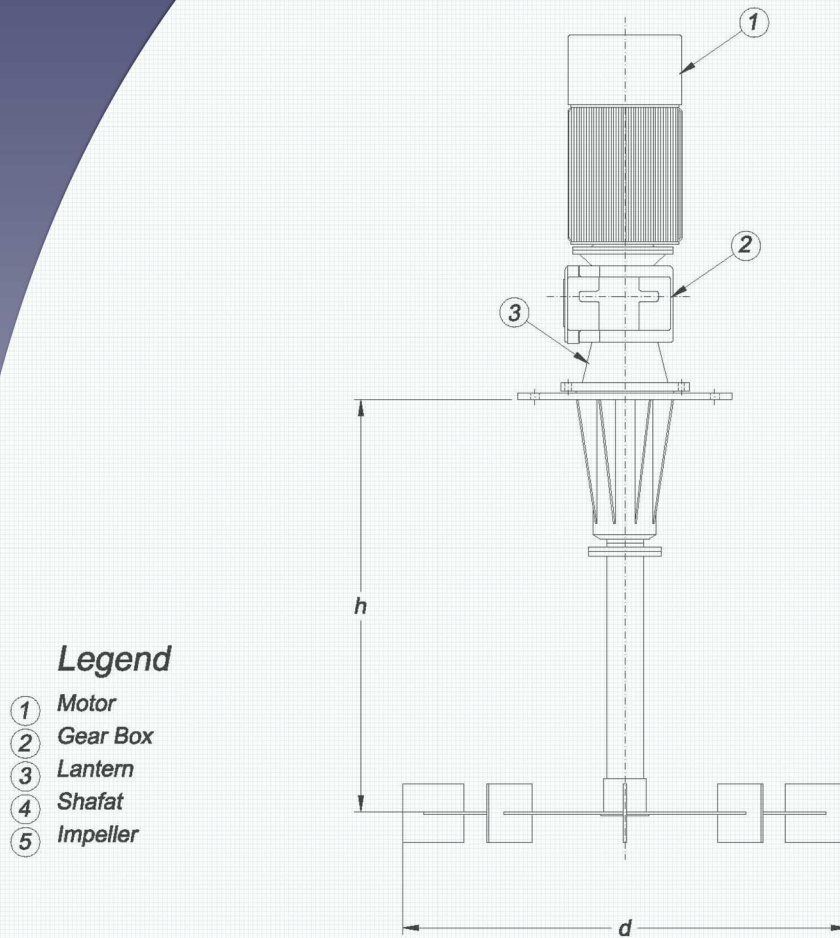


Legend

- ① Mixing Unit
- ② Dosing Pump
- ③ Tank
- ④ Outlet
- ⑤ Load Opening

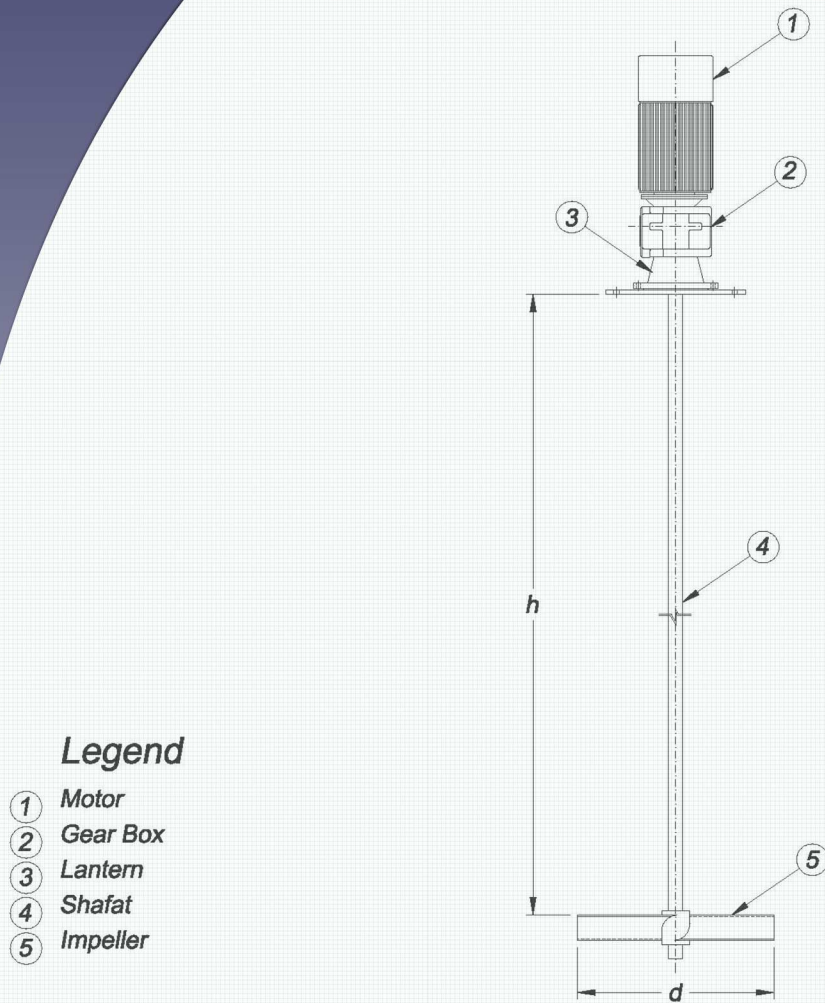
UM-CPDU - UMMAB CHEMICAL PEREPARATION AND DOSING UNIT

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA				
UM-CPDU	MODEL		120	250	300	500	1000
	VOLUM	lt	120	250	300	500	1000
	DIAMETER	mm	480	595	670	760	1085
	TOTAL HEIGHT (h)	mm	715	870	950	1185	1220
	MAX LEVEL(h1)	mm	650	800	900	1100	1150
	MAX FLOW RATE	lt/h	2	5	10	15	20
	POWER SUPPLY	Kw	0.18	0.18	0.37	0.37	0.55



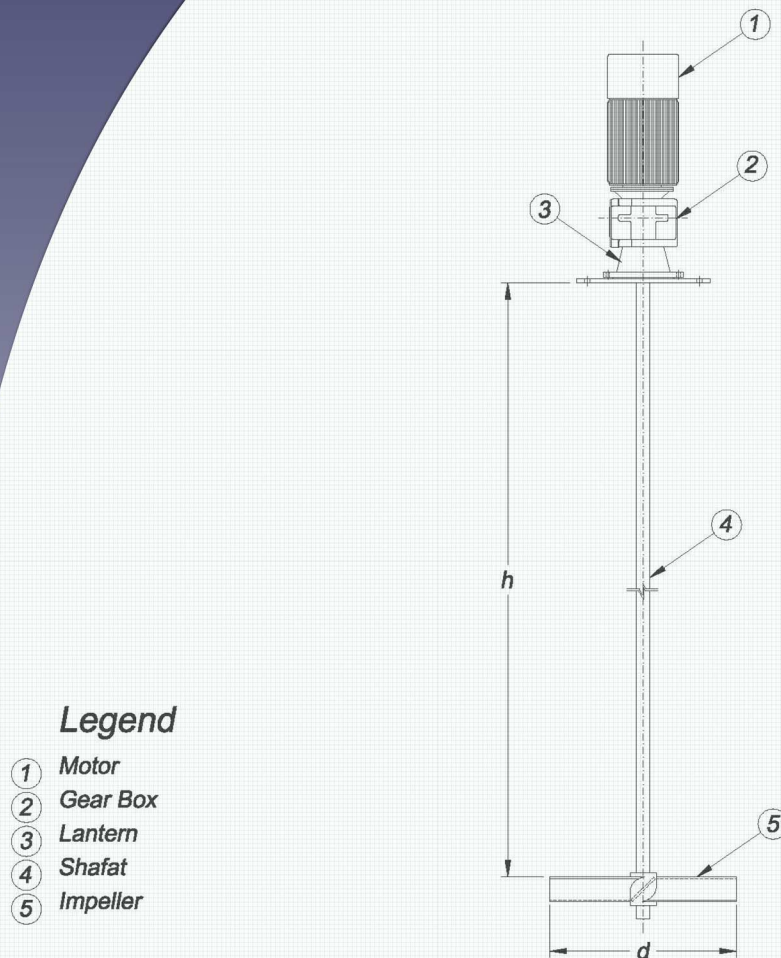
UM-STA - UMMAB SUBMERGED TURBIN AGITATOR

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA														
UM-STA	IMPELLER DIAMETER	mm	900	1100	1400	1450	1530	1530	1600	2000	2000	2500	2600	2800	3000		
	SHAFT LENGTH	mm	2500	2500	3000	3000	3000	3000	3000	3000	3000	4000	4000	4000	4000		
	TREATED WATER VOLUM	m3	40	60	183	250	367	500	667	917	1250	1530	1830	2500	3000		
	REVOLUTION SPEED	r.p.m	18	18	15	15	15	18	18	13	15	11	10	8	7		
	AXIAL LOAD	daN	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5		
	RADIAL LOAD	daN	4	6	1.5	16	17	19	21	22	24	25	37	45	51		
	DYNAMIC TORQUE VERTICAL AXLE	daN	39	58	14	280	382	424	583	1100	1170	1900	2200	3300	3800		
	POWER SUPPLY	Kw	0.37	0.55	450	2.2	3	4	5.5	7.5	9.2	11	11	15	18.5		



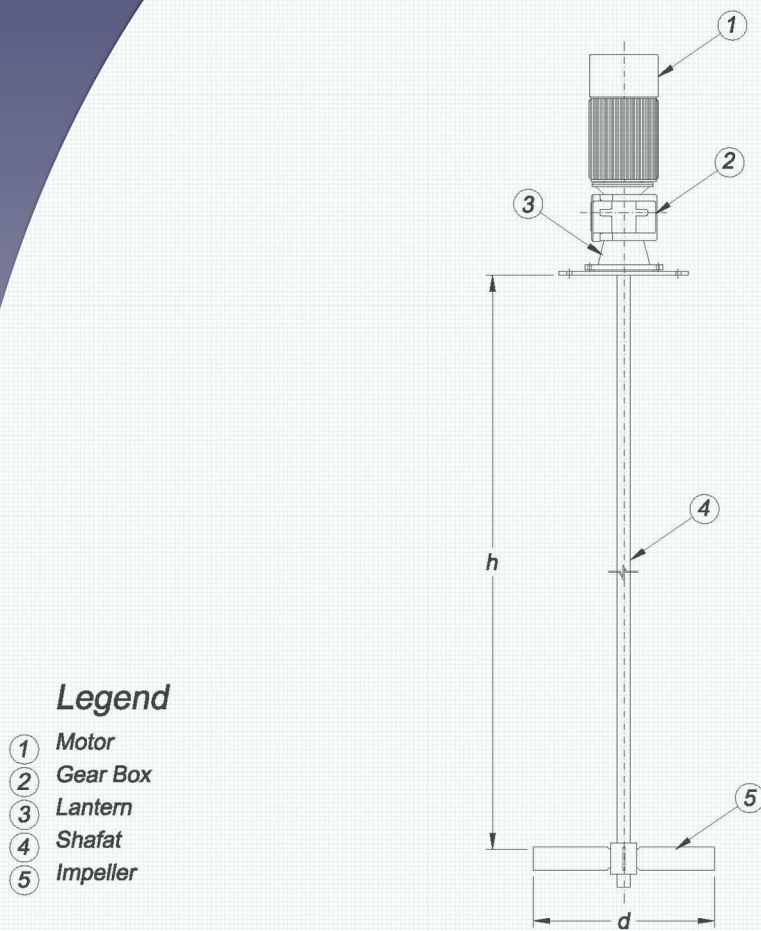
UM-A2SB - UMMAB ELECTRICAL AGITATOR WITH TWO SLOPING

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA														
UM-EA2SB	MODEL		002	003	004	007	009	0013	020	028	035	050	065	090	110	120	
	DIAMETER	mm	320	350	380	410	440	470	500	540	570	610	770	890	930	1200	
	SHAFT LENGTH	mm	1000	1000	1000	1000	1000	1500	1500	1500	1500	1500	1500	1500	2000	2000	
	TREATED WATER VOLUM	m3	4	5	6	9	12	18	25	37	45	55	63	70	90	125	
	REVOLUTION SPEED	r.p.m	140	140	140	140	140	140	140	140	140	120	90	75	75	55	
	AXIAL LOAD	daN	25	46	60	66	73	80	95	110	140	215	265	330	410	485	
	RADIAL LOAD	daN	3.5	6.2	9.8	11	12	16	22	28	42	56	63	72	79	85	
	DYNAMIC TORQUE VERTICAL AXLE	daN	3.4	3.8	5	7.5	10.3	15	20	30	41	48	85	102	140	260	
	POWER SUPPLY	Kw	0.25	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	3	4	4	5.5	7.5	



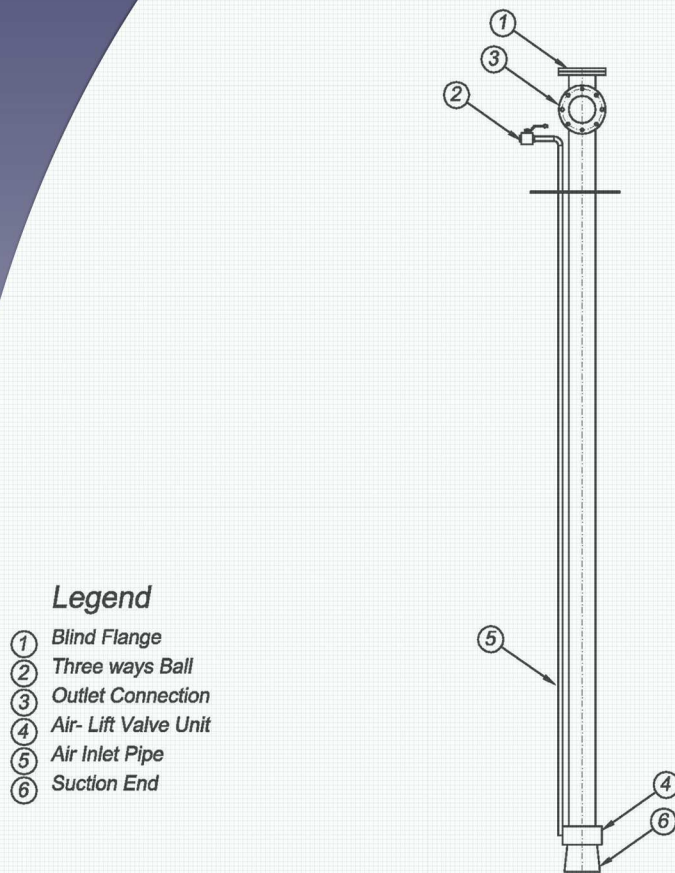
UM-A4SB - UMMAB ELECTRICAL AGITATOR WITH FOUR SLOPING BLADES

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA														
UM-A4SB	IMPELLER DIAMETER	mm	390	430	450	480	490	520	560	620	640	750	770	960	1020		
	SHAFT LENGTH	mm	1000	1000	1000	1000	1000	1500	1500	1500	1500	2000	2000	2000	2000		
	TREATED WATER VOLUM	m ³	9	12	18	23	27	36	45	32	34	36	38	45	50		
	REVOLUTION SPEED	r.p.m	140	140	140	140	140	140	140	90	90	70	70	50	50		
	AXIAL LOAD	daN	12	15	28	65	73	80	85	110	135	190	220	250	280		
	RADIAL LOAD	daN	1.7	2.1	4.9	8.3	13	14	15	27	28	30	31	45	48		
	DYNAMIC TORQUE VERTICAL AXLE	daN	7.5	10	15	18	22	30	41	44	47	58	63	84	115		
	POWER SUPPLY	Kw	0.55	0.75	1.1	1.5	1.5	2.2	3	2.2	2.2	2.2	2.2	2.2	3		



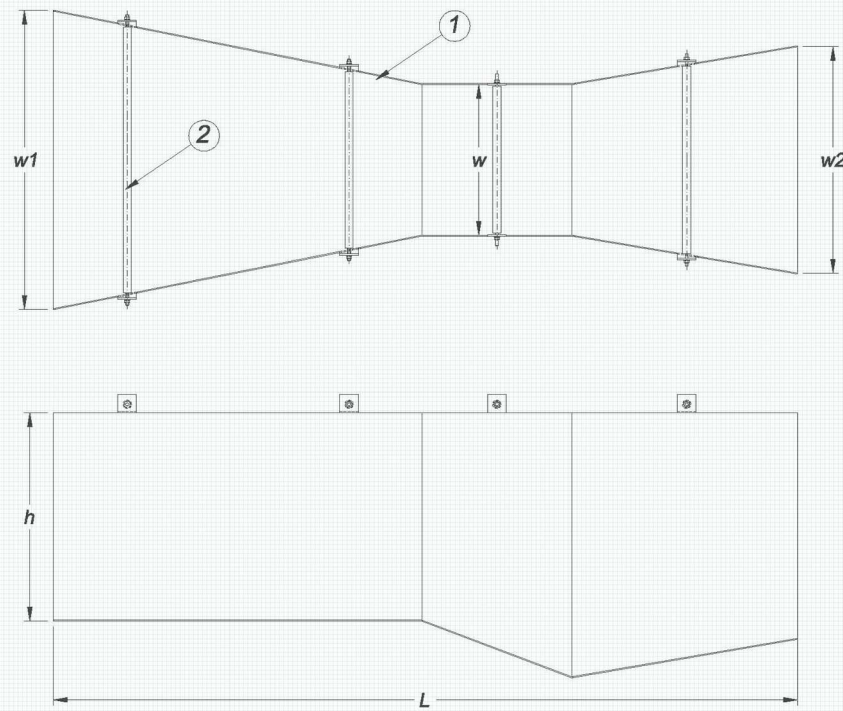
UM-EA4AB - UMMAB ELECTRICAL AGITATOR WITH FOUR AXIYAL BLADES

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA							
UM-EA4AB	IMPELLER DIAMETER	mm	600	650	700	870	1210	1280	1600	1700
	SHAFT LENGTH	mm	1500	1500	2000	2000	2000	2000	2500	2500
	TREATED WATER VOLUM	m ³	25	35	45	47	50	55	75	85
	REVOLUTION SPEED	r.p.m	25	25	25	22	14	14	10	10
	AXIAL LOAD	daN	0.5	1	1.5	2	2.5	3	3.5	4
	RADIAL LOAD	daN	0.9	1.3	1.7	2.1	4.6	6.4	14	18
	DYNAMIC TORQUE VERTICAL AXLE	daN	19	28	42	48	70	75	140	150
	POWER SUPPLY	Kw	0.25	0.37	0.55	0.55	0.55	0.55	0.75	0.75



UM-PF - UMMAB AIR LIFT

TYPE	MAINFEATURES	UNIT	DIMENSIONAL DATA													
UM-AL	MODEL		080	005	007	015	020	030	040	060	090	120	150	180	210	240
	DIAMETER	DN	80	80	100	100	125	125	150	150	175	175	200	200	250	250
	WATER FLOW RATE	m ³ /h	15	15	30	30	45	45	65	65	90	90	115	115	175	175
	LIFT MIN/MAX	mm	500	4500	500	4500	500	4500	500	4500	500	4500	500	4500	500	4500
	IMMERSION DEPTH MIN/MAX	mm	1500	6500	1500	6500	1500	6500	1500	6500	1500	6500	1500	6500	1500	6500
	AIR FLOW RATE MIN/MAX	m ³ /h	40	40	80	80	120	120	175	175	240	240	310	310	470	470

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