

# Steam Drum Project Reference



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## ■ Steam Drum Manufacturer Ulp

Ulp is a globally recognized manufacturer of Steam Drum based in S.Korea. Ulp's steam drum receives generated steam from boiler, separate into vapour and allow only the steam to be sent to power generation turbines. These steam drums are most commonly used in cogeneration power plants globally.

Our molding technology for advanced plates over 150 mm as well as advanced welding technology of thick plates without defects or deformation is what gives us the advantage in design and manufacturing of steam drums. More over, what differentiates our steam drums is smaller volume that gives 3 advantages to users – smaller installation space, lower manufacturing cost, and installation cost.

More than 80% of manufacturing and fabrication are performed in house, and we have a dedicated manufacturing engineering team for our steam drum business only, with a quality assurance team to produce steam drums with close to zero defect rate. Our competitive quality, price and lead time and engineering experience is what brings our clients back.

## ■ Major Clients



# Steam Drum Project Reference

Project Name	Client	End-User	Location	Item	Q'ty	Weight (Each)	Weight (Total)	Material	Dimension (mm)			Year
									Th'k	I.D	Length	
Trans Canada	VOGT	Trans Canada	Canada	HP Steam Drum	2	147.5	295.0	SA299-B	165	2,133	13,411	2015
Ishikariwan	GE KOREA	Hokkaido Electric Power	Japan	HP Steam Drum	1	130.6	130.6	SA302-C	150	1,900	13,438	Ongoing
Duke Citrus	VOGT	Duke Energy USA	USA	HP Steam Drum	4	132.5	530	SA299-B	148	1,981	14,021	2015
Samsun	DHIC	Samsun EC	Turkey	HP Steam Drum	2	167	334	SA302-C	148	2,184	17,800	2009
Middle Town	VOGT	Middle Town	USA	HP Steam Drum	1	130.3	130.3	SA302-B	145	1,981	14,630	2016
Kings Mountain	VOGT	Kings Mountain	USA	HP Steam Drum	1	130.3	130.3	SA302-B	145	1,981	14,630	2016
Toplobampo II	CMI	IBERDROLA	Mexico	HP Steam Drum	2	109.7	219.4	SA299-B	142	2,020	11,300	Ongoing
Genesis Keys	VOGT	Keys Energy	USA	HP Steam Drum	2	106	212	SA302-B	142	1,981	11,887	2016
Kaisel	Sumitomo	Hyundai Engineering	Indonesia	HP Steam Drum	2	83.1	83.1	SA516-70N	138	1,524	13,800	2016
Yeosu #1	DOOSAN E&C	Korea South-East Power	Korea	HP Steam Drum	1	246	246	SA302-C	135	1,676	34,000	2014
Wloclawek	DOOSAN E&C	PKN Orlean	Poland	HP Steam Drum	1	108	108	P460NH	133	1,730	3,681	2014
EDF	CMI	EDF	France	HP Steam Drum	1	172.3	172.3	SA302-B	132	3,200	11,414	2013
Tung Hsiao	DOOSAN E&C	MHPS	Taiwan	HP Steam Drum	6	114.5	686.9	SA299-B	129	1,850	15,438	2015
Hamitabat	CMI	Hamitabat	Turkey	HP Steam Drum	2	110	220	SA302-B	125	1,890	13,530	2016
DOII	Sumitomo	Sumitomo	Japan	HP Steam Drum	1	55.2	55.2	SA516-70	124	1,372	9,837	2015

Project Name	Client	End-User	Location	Commodity	Q'ty	Weight (Each)	Weight (Total)	Material	Dimension (mm)			Year
									Th'k	I.D	Length	
Erzin	DHIC	Erzin Power Plant	Turkey	HP Steam Drum	2	146	292	SA299-B	124	2,240	15,600	2012
Chinook	CMI LLC	Burns & McDonnell	Canada	HP Steam Drum	1	79.6	79.6	SA299-B	123	1,625	11,500	Ongoing
Mankato II	Nooter/Eriksen	Calpine	USA	HP Steam Drum	1	81.4	81.4	SA302-B	115	1,829	10,668	Ongoing
Qassim	CMI	Qassim	Saudi Arabia	HP Steam Drum	12	45.8	549	SA299-B	114	2,730	3,340	2015
Hanam HRSG	DOOSAN E&C	SKE&S	Korea	HP Steam Drum	1	92.6	92.6	SA299-B	114	3,061	12,868	2014
Intergen	DOOSAN E&C	Intergen	Philippine	HP Steam Drum	1	65	65	SA299-B	114	2,073	5,636	2014
Add on C.C Unit	DHIC	Israel Electric	Israel	HP Steam Drum	3	104.8	314.4	SA299-B	113	1,980	13,500	2011
Bheramara	CMI	Bheramara	Bangladesh	HP Steam Drum	1	97	97	SA299-B	110	2,300	9,948	2015
Oseung	DHIC	SKE&S	Korea	HP Steam Drum	3	78.9	236.7	SA299-B	110	2,060	9,800	2011
Mattawoman	Nooter/Eriksen	Mattawoman Power	USA	HP Steam Drum	2	85.2	170.4	SA302-B	109	1,575	14,112	Ongoing
SOHAR	Nooter/Eriksen	SEPCOIII	Algeria	HP Steam Drum	4	70.1	280.4	SA302-B	108	1,600	12,500	Ongoing
IBRI	Nooter/Eriksen	SEPCOIII	Algeria	HP Steam Drum	4	70.1	280.4	SA302-B	108	1,600	12,500	Ongoing
Edwardsport	DHIC	IGCC Station	USA	HP Steam Drum	2	95	190	SA299-B	107	2,200	13,800	2009
Qatalum	DHIC	S2 Ruwais	Qatar	HP Steam Drum	4	118	472	SA299-B	107	2,400	15,000	2008
Westmoreland	Nooter/Eriksen	Westmoreland Generating Station	Thailand	HP Steam Drum	2	85.3	170.5	SA302-B	105	1,499	15,850	Ongoing
					2	78	156	SA302-B	105	1,499	15,850	Ongoing

# Steam Drum Project Reference

Project Name	Client	End-User	Location	Commodity	Q'ty	Weight (Each)	Weight (Total)	Material	Dimension (mm)			Year
									Th'k	I.D	Length	
Talimarjan	DOOSAN E&C	TTUESU	Uzbekistan	HP Steam Drum	2	96.2	192.4	SA299-B	105	3,119	13,378	2014
Yanjiu	DHIC	DaeRyun Power	Yangju	HP Steam Drum	2	78	156	SA299-B	105	1,962	11,850	2012
Toul	DHIC	POWEO Toul	France	HP Steam Drum	1	75.7	75.5	SA299-B	105	1,966	11,000	2011
Tuasspring CAPP	VOGT	GMR Energy	Singapore	HP Steam Drum	1	140	140	SA299-B	104	1,828	14,935	2012
Unosugen	DHIC	Torrent Power	India	HP Steam Drum	1	97	97	SA299-B	104	1,980	14,000	2010
Qurayyah	DHIC	Saudi Electricity	Saudi Arabia	HP Steam Drum	10	76	760	SA299-B	104	1,830	11,700	2010
Ashvill	VOGT	Duke Energy	USA	HP Steam Drum	2	71.1	142.2	SA299-B	103	1,981	10,058	Ongoing
St. Charles	Nooter/Erik sen	CB&I	USA	HP Steam Drum	2	83.5	167	SA302-B	102	1,524	15,240	Ongoing
					2	75	150	SA302-B	102	1,524	15,240	Ongoing
ST. Joseph	Nooter/Erik sen	Kiewit	USA	HP Steam Drum	2	68.8	137.5	SA302-B	102	1,524	13,259	2016
Duba#1 HRSG	DOOSAN E&C	Saudi Electricity	Saudi Arabia	HP Steam Drum	2	90.3	180.6	SA299-B	102	1,910	12,200	2015
OMV Brazi	DHIC	Petrom	Romania	HP Steam Drum	2	92	184	SA299-B	102	1,930	16,000	2009
Moundsville	VOGT	Dorn Energy LLC	USA	HP Steam Drum	2	65.2	130.5	SA299-B	100	1,829	10,058	Ongoing
		Moundsville			2	59.2	118.4	SA302-B	100	1,676	10,363	2016
SHP	Sumitomo	SUMITOMO	Japan	HP Steam Drum	1	57.3	57.3	SA516-70	100	1,372	12,240	2015

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Project Name	Client	End-User	Location	Commodity	Q'ty	Weight (Each)	Weight (Total)	Material	Dimension (mm)			Year
									Th'k	I.D	Length	
Nhon Trach	DHIC	Petro Vietnam	Vietnam	HP Steam Drum	2	76	152	SA299-B	99	1,830	10,870	2010
Soharll	DHIC	Al Batinah Power	Oman	HP Steam Drum	2	81.3	162.6	SA299-B	98	1,829	13,000	2011
Barkall					2	81.3	162.6	SA299-B	98	1,829	13,000	2011
Hess Oil	VOGT	Hess Oil & Chem Corp.	USA	HP Steam Drum	2	60.1	120.2	SA299-B	96	1,677	11,000	2013
TGP	Sumitomo	Tsuruga Green Power	Japan	HP Steam Drum	1	37.5	37.5	SA516-70N	94	1,372	8,000	2016
MBP	Sumitomo	Sumitomo	Japan	HP Steam Drum	1	48.2	48.2	SA516-70N	93	1,372	10,864	2015
JIJEL	GE	SPE	Algeria	HP Steam Drum	4	75.3	301	SA299-B	92	1,730	13,344	Ongoing
Biskara	GE KOREA	BISKRA Power Plant	Korea	HP Steam Drum	4	301	301	SA299-B	92	1,730	13,344	2016
UNA	Sumitomo	Sumitomo	Japan	HP Steam Drum	1	23.4	23.4	SA516-70	92	1,372	4,878	2015
Riverside Exp.	Nooter/Eriksen	Wisconsin Power and Light	USA	HP Steam Drum	2	60.5	120.9	SA302-B	90	1,321	14,783	Ongoing
					2	59	118	SA302-B	90	1,321	14,783	Ongoing
JEJU POWER	GE KOREA	KOMIPO	Korea	HP Steam Drum	2	41.9	83.8	SA299-B	89	1,680	7,808	Ongoing
Ras Al Zawr	DHIC	Saline Water Conversion	Saudi Arabia	HP Steam Drum	10	87.6	876	SA299-B	89	2,451	10,872	2011
Shuweihat S2	DHIC	S2 Ruwals	UAE	HP Steam Drum	4	127	508	SA299-B	88	2,500	18,000	2009

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									Th'k	I.D	Length	
Los Mina	Nooter Erikson	AES Dominicana	Dominica	HP Steam Drum	2	55.2	110.4	SA516-70	85	1,850	9,754	2015
IMC Expansion	BORSIG	IMC	Saudi ARabia	HP Steam Drum	1	48.2	48.2	SA516-70	83	1,800	6,433	Ongoing
West Damietta	GE	PGESCo	Egypt	HP Steam Drum	4	42.4	169.6	SA299-B	83	1,760	7,810	2016
Scattergood	VOGT	Generating Station	USA	HP Steam Drum	1	58.4	58.4	SA299-B	83	1,867	10,973	2013
Ras Laffan	DHIC	Ras Girtas	Qatar	HP Steam Drum	8	77	616.0	SA302-C	83	1,950	16,000	2009
Azito HRSG	DOOSAN E&C	Azito OCGT Power Plant Ivory Coast	Cote d'Ivoire	HP Steam Drum	2	73.7	147.4	SA299-B	82	3,412	12,370	2014
Djelfa	Nooter/Erikson	Sonelgaz	Algeria	HP Steam Drum	4	50.7	202.7	SA516-70N	81	1,422	13,411	2016
Kais					4	50.8	203.2	SA516-70N	77	1,397	13,800	2016
Facility D	Nooter/Erikson	Qatar General Electricity	Qatar	HP Steam Drum	6	83.1	498.5	SA516-70N	76	1,930	15,120	2016
Mary	CMI	Calik Enerji	Oman	HP Steam Drum	4	183	183	SA299-B	74	2,010	9,000	Ongoing
El Campesino	NEM	Central El Campesino S.A	Chile	HP Separator	1	18.6	18.6	SA336 Gr F11	65	570	17,370	Ongoing
Chilca Plus	Nooter Erikson	Enersur S.A.	Peru	HP Steam Drum	1	23.3	23.3	SA516-70	65	1,422	6,400	2015
Tanjung Uncang	NEM	PLN BATAM	Indonesia	HP Steam Drum	2	49.5	99	SA299-B	64	1,700	5,400	2014
Prai HRSG	DOOSAN E&C	TNB Northern Energy Bhd.	Malaysia	HP Separator	2	18	36	SA335-P22	60	610	18,600	2014

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Project Name	Client	End-User	Location	Commodity	Q'ty	Weight (Each)	Weight (Total)	Material	Dimension (mm)			Year
									Th'k	I.D	Length	
Aconcagua	Nooter/Eriksen	ENAP Refinerias	Korea	HP Steam Drum	1	27.5	27.5	SA516-70N	50	2,108	6,553	2016
BPN & BPS	Sumitomo	Sumitomo	Japan	HP Steam Drum	2	10.2	20.4	SA516-70	50	1,250	3,750	2015
Qurayyah	CMI	Saudi Electricity	Saudi Arabia	IP Steam Drum	3	18	54	SA516-70	46	2,412	2,900	2011
Profertil	NEM	PROFERTIL	Argentina	HP Steam Drum	1	21.7	21.7	SA516-70	44	1,800	5,200	2013
Bheramara	CMI	Bheramara	Bangladesh	IP Steam Drum	1	12.4	12.4	SA516-70N	40	1,990	5,200	2015
Westmoreland	Nooter/Eriksen	Westmoreland Generating Station	Thailand	IP Steam Drum	2	30.5	60.9	SA516-70N	39	1,829	12,802	Ongoing
Duke Citrus	VOGT	Duke Energy	USA	IP Steam Drum	4	23.9	95.6	SA516-70	36	1,524	11,887	2015
Trans Canada	VOGT	Trans Canada	Canada	LP Steam Drum	2	24	48	SA516-70	36	1,524	12,497	2015
Chinook	CMI LLC	Burns & McDonnell	Canada	IP Steam Drum	1	19.6	19.6	SA516-70	35	1,400	10,600	Ongoing
Moundsville	VOGT	Dorn Energy LLC	USA	IP Steam Drum	2	21.3	42.7	SA516-70N	35	1,524	10,668	Ongoing
Genesis Keys	VOGT	Keys Energy	USA	IP Steam Drum	2	14.1	28.2	SA516-70	35	1,524	5,791	2016
EDF	CMI	EDF	France	IP Steam Drum	1	26.2	26.2	SA516-70	35	1,720	11,414	2013
Okeechobee	Nooter/Eriksen	Florida Power and Light	USA	HP Steam Drum	3	84.4	253.2	SA302-B	99	1,524	16,460	Ongoing
					3	83.1	249.3	SA302-B	99	1,524	16,460	Ongoing



# Steam Drum Project Reference

Project Name	Client	End-User	Location	Commodity	Q'ty	Weight (Each)	Weight (Total)	Material	Dimension (mm)			Year
									Th'k	I.D	Length	
Djelfa	Nooter/ Eriksen	Sonelgaz	Algeria	IP Steam Drum	4	15.2	60.7	SA516-70N	32	1,219	12,192	2016
Ishikariwan	GE Korea	Hokkaido Electric Power	Japan	IP Steam Drum	1	22.6	22.6	SA516-70	31	1,520	13,000	Ongoing
JIJEL	GE	SPE	Algeria	IP Steam Drum	4	19.7	78.6	SA516-70N	31	1,524	12,000	Ongoing
St. Charles	Nooter/ Eriksen	CB&I	USA	IP Steam Drum	2	17.8	35.6	SA516-70	31	1,524	10,820	Ongoing
Biskara	GE Korea	BISKRA Power Plant	Korea	IP Steam Drum	4	78.6	78.6	SA516-70N	31	1,524	12,000	2016
Tung Hsiao	DOOSAN E&C	MHPS	Taiwan	IP Steam Drum	6	16.8	100.9	SA516-70	31	1,524	11,000	2015
Hanam HRSG	DOOSAN E&C	SKE&S	Korea	IP Steam Drum	1	14.2	14.2	SA516-70	31	1,973	8,500	2014
Oseung	DHIC	SKE&S	Korea	IP Steam Drum	3	12.8	38.4	SA516-70	31	1,561	6,900	2011
Qurayyah	DHIC	Saudi Electricity	Saudi Arabia	IP Steam Drum	10	12	120	SA516-70	31	1,524	7,000	2010
Hamitabat	CMI	Hamitabat	Turkey	LP Steam Drum	2	17.7	35.4	SA516-70	30	1,400	13,529	2016
Prai HRSG	DOOSAN E&C	TNB Northern Energy Bhd.	Malaysia	IP Steam Drum	2	25.4	50.8	SA516-70	30	1,519	17,500	2014
Samsun	DHIC	Samsun EC	Turkey	IP Steam Drum	1	22	22	SA516-70	30	1,524	14,700	2013
Ashvill	VOGT	Duke Energy	USA	IP Steam Drum	2	17.5	35	SA516-70	29	1,524	10,363	Ongoing

# Steam Drum Project Reference

Project Name	Client	End-User	Location	Commodity	Q'ty	Weight (Each)	Weight (Total)	Material	Dimension (mm)			Year
									Th'k	I.D	Length	
RFCC	DAELIM	S-OIL	Korea	DRUM	1	247.2	247.2	SA516-60N+S5	64	5,900	18,800	Ongoing
RFCC	DAELIM	S-OIL	Korea	DRUM	1	170.7	170.7	SA516-60N+S5	46	5,800	17,200	Ongoing
RFCC	DAEWOO	S-OIL	Korea	DRUM	1	161.6	161.6	SA516-60N HIC	37	5,000	21,600	Ongoing
RFCC	DAELIM	S-OIL	Korea	DRUM	1	139.6	139.6	SA516-60N+S5	49	4,800	15,950	Ongoing
RFCC	DAEWOO	S-OIL	Korea	DRUM	1	137.8	137.8	SA516-70N	24	5,500	21,420	Ongoing
RFCC	DAEWOO	S-OIL	Korea	DRUM	1	120.4	120.4	SA516-70N+S5	65	3,500	14,500	Ongoing
RFCC	DAELIM	S-OIL	Korea	DRUM	1	86.6	86.6	SA516-70N+S5	51	3,600	13,000	Ongoing
RFCC	DAELIM	S-OIL	Korea	DRUM	1	84.9	84.9	SA516-70N	30	4,800	16,100	Ongoing
RFCC	DAEWOO	S-OIL	Korea	DRUM	1	65.3	65.3	SA516-60N HIC	25	3,600	17,100	Ongoing
RFCC	DAELIM	S-OIL	Korea	DRUM	1	48.8	48.8	SA516-70N	25	3,800	13,600	Ongoing
PDH	UOP	SK E&C / SK GAS	Korea	Tail Gas Drum	1	47.3	47.3	SA516-70	17	3,000	19,900	2015
New Kero Merox	S-OIL	S-OIL	Korea	DRUM	1	46.6	46.6	SA516-70	28	3,658	6,800	2010
RFCC	DAELIM	S-OIL	Korea	DRUM	1	38.9	38.9	SA516-60N+S5	29	3,300	9,400	Ongoing
PDH	UOP	SK E&C / SK GAS	Korea	Absorber	6	32.7	196	SA516-70N	40	3,000	4,800	2015
RFCC	DAEWOO	S-OIL	Korea	DRUM	1	22.3	22.3	SA516-60N HIC	17	2,700	8,100	Ongoing
El Campesino	NEM	Central El Campesino S.A	Chile	IP Steam Drum	1	27.2	27.2	SA516-70	32	1,450	18,200	Ongoing

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