



EXPLORER™ RANGE OF PORTABLE PROCESSING PLANTS

(TECHNICAL SPECIFICATION AND COMPARISON TABLE)

LEADER IN
SURFACE MINING
TECHNOLOGIES

COMPONENTS		UNIT	EXPLORER-I		EXPLORER-II	EXPLORER-III	EXPLORER-IV	EXPLORER-V
			(EXP-100)	(EXP-150)	(EXP 200)	(EXP 300)	(EXP 400)	(EXP 500)
PLANT PROCESSING CAPACITY (ORE THROUGH PUT)	SLURRY	m ³ / HR	9 - 12	30 - 45	45 - 60	60 - 90	120 - 150	150 - 180
		yd ³ / HR	12 - 16	40 - 59	48 - 79	66 - 118	171 - 197	164 - 237
	SOLIDS	TONS / HR	3 - 4	10 - 15	15 - 20	20 - 30	40 - 50	50 - 60
		m ³ / HR	2 - 3	7 - 10	10 - 14	14 - 20	27 - 34	34 - 40
		yd ³ / HR	2.7 - 4	10 - 13	13 - 19	19 - 27	36 - 45	45 - 53
OVERALL DIMENSION (W x L x H)		Inch	106 x 134 x 118	121 x 147 x 123	132 x 155 x 124	165 x 228 x 154	185 x 260 x 154	213 x 307 x 165
		mm.	2680 x 3400 x 3000	3080 x 3730 x 3130	3340 x 3940 x 3150	4200 x 5800 x 3900	4700 x 6600 x 3900	5400 x 5100 x 4200
TROMMEL & HOPPER		Inch	32 x 93	43 x 105	43 x 113	47 x 165	55 x 177	63 x 205
OVERALL DIMENSION (W x L)		mm.	820 x 2370	1080 x 2670	1080 x 2870	1200 x 4200	1400 x 4500	1600 x 5200
CLASSIFIER MESH SIZE (STANDARD)		Inch	0.8	0.8	0.8	0.8	0.8	0.8
		mm.	20	20	20	20	25	25
CLASSIFIER, CYLINDER SECTION (W x L)		Inch	11 x 28	16 x 32	24 x 39	32 x 43	32 x 55	38 x 75
		mm.	270 x 700	400 x 800	600 x 1000	800 x 1100	800 x 1400	970 x 1900
HOPPER DIMENSION (W x L)		Inch	20 x 20	28 x 28	32 x 32	47 x 47	55 x 55	63 x 63
		mm.	500 x 500	700 x 700	800 x 800	1200 x 1200	1400 x 1400	1600 x 1600
HOPPER CAPACITY		m ³	0.04	0.10	0.20	0.64	0.84	1.30
OVERSIZE REJECT CHANNEL FOR TROMMEL (W x L x H)		Inch	21 x 47 x 5	23 x 95 x 5	23 x 35 x 5	35 x 39 x 12	35 x 59 x 12	35 x 59 x 12
		mm.	530 x 1200 x 130	590 x 2400 x 130	590 x 2400 x 130	900 x 1000 x 300	900 x 1500 x 300	900 x 1500 x 300
JIG TYPE		DUPLIX	DUPLIX	DUPLIX	DUPLIX	DUPLIX	DUPLIX	DUPLIX
JIG BAFFLE DIAPHRAGM SIZE		Inch	18 / 24	18 / 24	18 / 24	27 / 33	30 / 37	34.5 / 43.5
		mm.	460 / 610	460 / 610	460 / 610	690 / 840	760 / 940	910 / 1120
NUMBER OF RIFFLES		RIFFLES / JIG	8	10	10	18	18	20
PLUNGER STROKE		mm.	17	17	17.3	35	35	35
JIG CONCENTRATOR (EFFECTIVE PARTICLE SIZE)		mm.	- 25	- 25	- 25	- 25	- 25	- 25
JIG OVERALL DIMENSION (W x L x H)		Inch	39.4 x 117.6 x 49.8	39.4 x 117.6 x 49.8	43.3 x 125.5 x 49.8	52.4 x 175.7 x 78.7	60.2 x 175.7 x 78.7	72 x 199.3 x 78.7
		mm.	1000 x 2988 x 1265	1000 x 2988 x 1265	1100 x 3188 x 1265	1330 x 4463 x 2000	1530 x 4463 x 2000	1830 x 5063 x 2000
CONCENTRATOR RIFFLE SECTION (W x L x H)		Inch	28 x 55 x 3	28 x 55 x 3	32 x 63 x 3	40 x 95 x 4	47 x 95 x 4	59 x 118 x 4
		mm.	700 x 1400 x 75	700 x 1400 x 75	800 x 1600 x 75	1000 x 2400 x 100	1200 x 2400 x 100	1500 x 3000 x 100
CONCENTRATOR MESH SIZE (STANDARD)		mm.	3.0	3.0	3.0	3.0	3.0	3.0
OPTIMUM RATIO SLURRY		SOLIDS / LIQUID	1 / 2.5 - 3.0	1 / 2.5 - 3.0	1 / 2.5 - 3.0	1 / 2.5 - 3.0	1 / 2.5 - 3.0	1 / 2.5 - 3.0
HUTCH WATER INLET		Inch	1	1	1	2	2	2
		mm.	34.0	34.0	34.0	60.5	60.5	60.5
SLUICE BOX DIMENSION (W x L)		Inch	12 x 95	12 x 189	12 x 189	20 x 189	20 x 189	28 x 189
		mm.	300 x 2400	300 x 4800	300 x 4800	500 x 4800	500 x 4800	700 x 4800
TRAILER (REMOVABLE) INCLUDING HITCH		TYPE	2 WHEELS	6 WHEELS	6 WHEELS	8 WHEELS	8 WHEELS	8 WHEELS
AXLES		NUMBER	1	2	2	2	2	2
NUMBER OF WHEELS		FRONT	-	2	2	4	4	4
		REAR	2	4	4	4	4	4
TRAILER WHEEL		SIZE	195 x 14"	195 x 14"	195 x 15"	750 x 16"	750 x 16"	750 x 16"
PLANT & TRAILER ADJUSTABLE STANDS		PIECES	4	6	6	6	6	6
FRONT AXLE (INCLUDING HITCH MECHANISM)		TYPE	N/A	ROTATING	ROTATING	ROTATING	ROTATING	ROTATING
TRAILER GROUND CLEARANCE		Inch	31.5	31.5	31.5	35.4	35.4	35.4
		mm.	800	800	800	900	900	900



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CENTRIFUGAL PUMP (SUCTION PIPE & FOOT VALVE)	NOMINAL DIAMETER	Inch	3	3	3	4	4	5
		mm.	80	80	80	100	100	125
	FLOW RATE	m ³ / HR	45	45	45	80	80	120
		Lit/min	750	750	750	1333	1333	2000
		GAL (US)/min	198	198	198	352	352	528
HEAD	m.	18	18	18	30	30	30	
HIGH PRESSURE WATER PIPE	m.	30	30	30	30	30	30	
JIG GROSS WEIGHT (WITHOUT CRATE)	kg	580	580	650	1410	1640	1880	
TRAILER WEIGHT	kg	225	270	330	940	1250	1600	
EXPLORER TOTAL WEIGHT	kg	980	1250	1480	3480	4360	5380	
DOVE EQUIPMENT & MACHINERY CO., LTD. (subsidiary of DOVE GLOBAL-TECH CO., LTD.)								
(HEAD OFFICE)				(FACTORY)				
SILOM GALLERIA, 919/363, 29TH FLOOR, SILOM RD., BANGRAK, BANGKOK 10500, THAILAND TEL: (+662) 630-1750 - 3; FAX: (+662) 630-3065				75/99 MOO. 11, KLONG NUENG, KLONG LUANG, PATHUMTHANI 13130, THAILAND TEL: (+662) 529-5770; FAX: (+662) 529-5770				
EMAIL: CORPORATE@DOVEMINING.COM				WWW.DOVEMINING.COM				

* Classifier mesh size could be modified, in accordance to your requirements, at the time of ordering.

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* Jig screen is available in various mesh sizes and could be modified, in accordance to your requirements, within few minutes in the field.

* The ore through put capacity could fluctuate in relation to the type of the ore, as well as the speed and the method of feeding the ore.

* Engine Power Rating is based on continuous rates.

* Explorer overall weight could fluctuate, in accordance to the specifications and the accessories.

* (NA) Not Applicable

* (RC) Reconditioned Engine

* NOTE : Specification could be modified without notice.