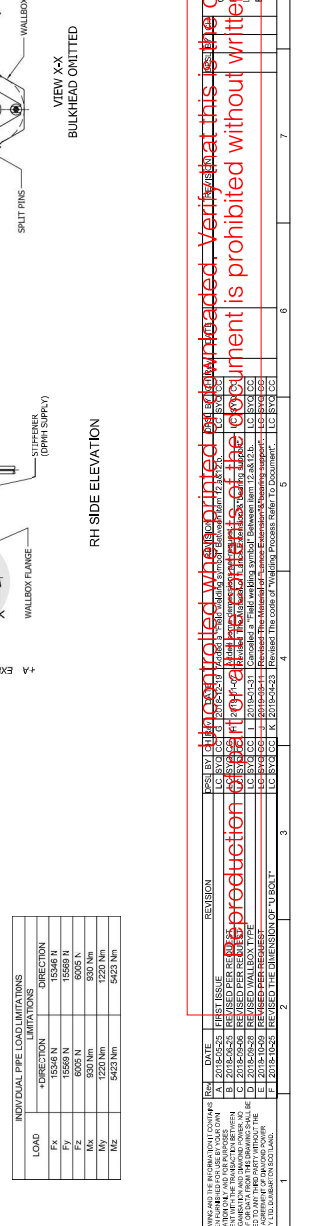
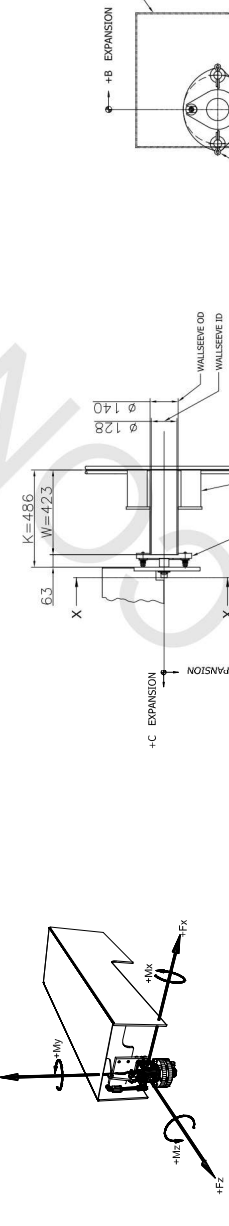
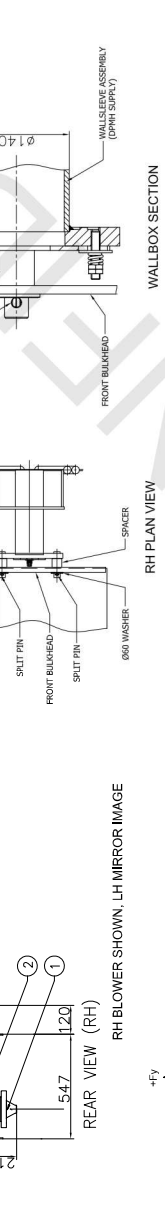
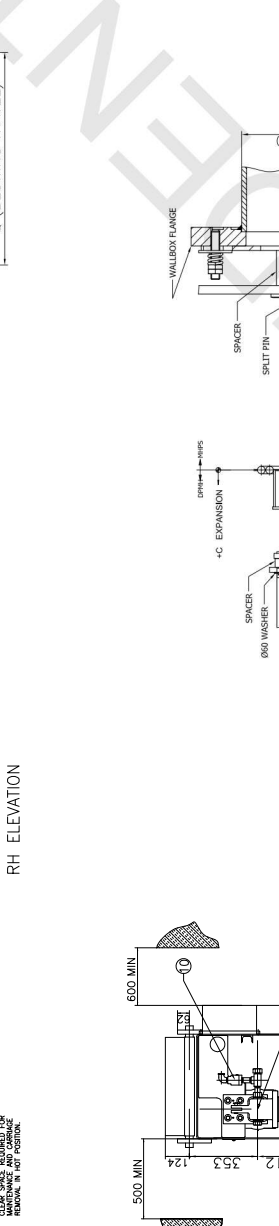
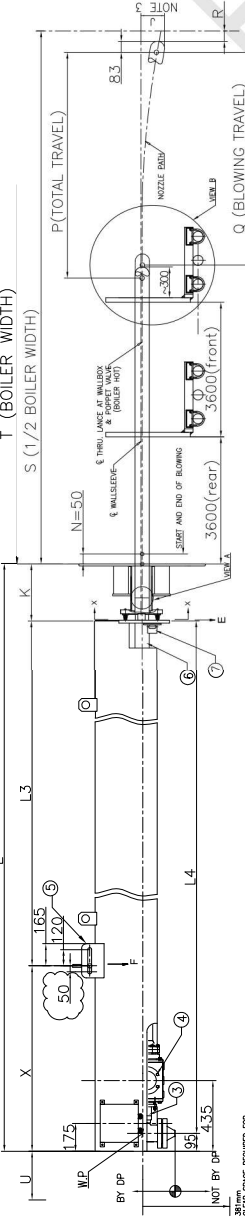
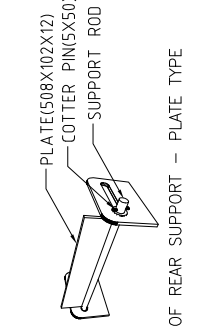


9 RECOMMENDED SPARE PARTS LIST

The intent of the list on the following page is to identify the minimum number of spare parts Diamond Power recommends be kept on hand to minimize cleaner downtime, in the event maintenance is required. The quantity of parts may vary depending on how critical the cleaner operation is to the plant performance, and company policy. Diamond Power recommends you review the entire manual, evaluate your operations, and then determine which parts are essential for your operational needs.

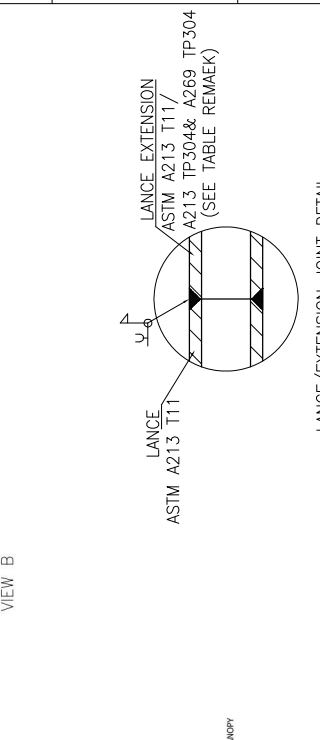
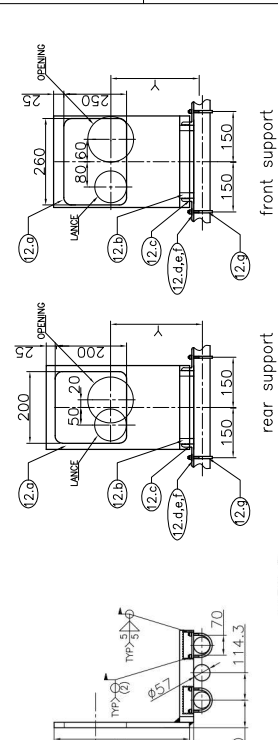
Table 9.1 IK525-EL Recommended Spare Parts List

PART NUMBER	QUANTITY/PER SB	DESCRIPTION
LH: 670100-00507 RH: 670100-00508	1	Carriage Assembly
718060-14903	1	Electric Motor
670405-01689	1	Lance Joint And Packing Assy
680206-14001	1	Gasket, Lance Tube
680801-05002A	1	Packing
680801-05004A	1	Packing
LH:670204-00107 RH:670203-00107:	1	Turn On Assembly
Per Order	1	Cam And Arm Assembly(R)
Per Order	1	Cam And Arm Assembly(L)
670200-00114	1	Poppet Valve Assembly
718060-14068	1	Feed Tube Assembly
670300-00851	1	Valve, Air Relief, Assembly
Per Order	1	Limited Switch
718060-14952	1	Terminal Box
680412-21025	1	Expanda cable, LH
680412-21026	1	Expanda cable, RH
670400-00018	2	Front Support And Roller Assembly
670400-02012	1	Wallbox Assembly
670400-01045	1	Companion Flange And Hardware



LOAD	DIRECTION	VALUE	DIRECTION	VALUE
Fx	15348 N	15348 N		
Fy	6905 N	6905 N		
Fz	930 N	930 N		
Mx	1220 Nm	1220 Nm		
My	5423 Nm	5423 Nm		
Mz	5423 Nm	5423 Nm		

QTY	DESCRIPTION	MATERIAL
1	COMPANION FLANGE WITH STUC'S NUTS & GASKET	Series 40bar
1	POPPET VALVE	Series 40bar; DIA: 60 mm. Matl: TP321
1	FEED TUBE	1.5KW 380V 3ph 50Hz; INSULATION: CLASS F WITH CLASS B TEMP RISE
1	CARRIAGE WITH MOTOR	ASSY
1	REAR SUPPORT	DIA: 89 mm. Matl: A213 T11
1	FRONT SUPPORT	ASSY
2	LIMIT SWITCH	ASSY
1	TERMINAL BOX	ASSY
1	AIR RELIEF VALVE	ASSY
1	WALLBOX	MATL: ASTM A27 G: 65-35
2	BEARING SUPPORT	ASSY
1	BEARING PLATE	MATL: 316L (116, 122 123/LR); 15CrMo (117, 124, 125/LR) (equal to ASTM A387 11)
1	SUPPORT ASSY	MATL: 15CrMo (equal to ASTM A387 '1)
4	ANGLE STEEL	MATL: 304
8	HEX NUT (M12)	MATL: 304
8	LOCK WASHER	MATL: 304
8	PLAIN WASHER	MATL: 304
4	U-BLOT	MATL: 304



NO.	REVISION	DATE	BY	CHKD.	APP'D.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
2	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
3	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
4	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
5	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
6	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
7	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
8	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
9	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
10	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
11	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...
12	ISSUED FOR CONSTRUCTION	2018-02-25	...	...	...	...

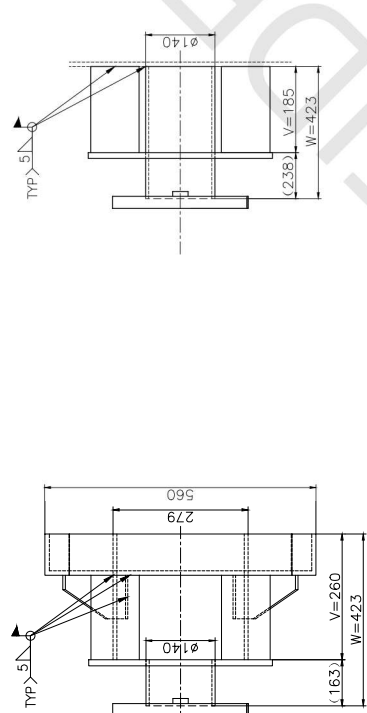
DIAMOND POWER
Machine (Hub)
Cairat (PRC)
Approved by: ...
Checked by: ...
Date: 2018-04-24
Scale: N:1.5
Sheet 1 of 2
N12035-4-3

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IK-525EL SOOTBLOWER ARRANGEMENT

Welding Process Refer To Document:
DIAMOND POWER STANDARDS-INST000108&INST000110

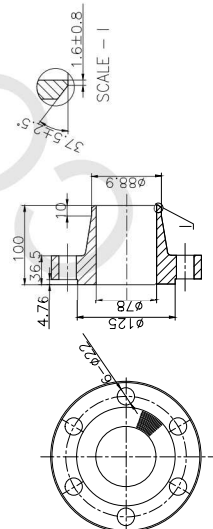
Blower No.	Blower Position No.	Blower Assy		KKS No. Unit 5	KKS No. Unit 6	HMI SERVICE NAME	Blowing		Elevation Opening Cold	Wall		Expansions			Blower Loadings			G	H	J	K	L	X	L3	L4	P	Q	T	S	R	U	W	Y (rear)	Y1 (front)	Material of extension	lance extension							
		LH	RH				LH	RH		A	B	C	D	E	F	kg	kg																				kg						
IK-525EL 1#	116L	50HCB14AT020	60HCB14AT020	LONG 20L	LONG 20L	LONG 20L	---	1	FL 58100	---	1	136	-78	91	0	-157	250	486	250	486	8986	1222	7278	8405	7500	7450	30284.1	15142.05	109	300	423	878	1018	1068	φ89x5.5-A213 TP304-φ89x3.5-A289 TP304	φ89x5.5-A213 TP304-φ89x3.5-A289 TP304							
IK-525EL 2#	116R	50HCB14AT020	60HCB14AT020	LONG 20R	LONG 20R	LONG 20R	---	1	FL 58100	---	1	170	-78	91	0	-202	250	---	---	---	1422	7078	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
IK-525EL 3#	117L	50HCB14AT025	60HCB14AT025	LONG 25L	LONG 25L	LONG 25L	---	1	FL 52800	---	1	136	-106	91	0	-157	250	---	---	---	1222	7278	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
IK-525EL 4#	117R	50HCB14AT025	60HCB14AT025	LONG 25R	LONG 25R	LONG 25R	---	1	FL 52800	---	1	170	-113	91	0	-202	250	---	---	---	1422	7078	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
IK-525EL 5#	122L	50HCB14AT021	60HCB14AT021	LONG 21L	LONG 21L	LONG 21L	---	1	FL 58100	---	1	136	-135	91	0	-157	250	---	---	---	1222	7278	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
IK-525EL 6#	122R	50HCB14AT021	60HCB14AT021	LONG 21R	LONG 21R	LONG 21R	---	1	FL 58100	---	1	170	-135	91	0	-202	250	---	---	---	1422	7078	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
IK-525EL 7#	123L	50HCB14AT022	60HCB14AT022	LONG 22L	LONG 22L	LONG 22L	---	1	FL 52800	---	1	136	-135	91	0	-157	250	---	---	---	1222	7278	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
IK-525EL 8#	123R	50HCB14AT022	60HCB14AT022	LONG 22R	LONG 22R	LONG 22R	---	1	FL 52800	---	1	170	-113	91	0	-202	250	---	---	---	1422	7078	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
IK-525EL 9#	124L	50HCB14AT024	60HCB14AT024	LONG 24L	LONG 24L	LONG 24L	---	1	FL 52800	---	1	136	-135	91	0	-157	250	---	---	---	1222	7278	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
IK-525EL 10#	124R	50HCB14AT024	60HCB14AT024	LONG 24R	LONG 24R	LONG 24R	---	1	FL 52800	---	1	170	-113	91	0	-202	250	---	---	---	1422	7078	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
IK-525EL 11#	125L	50HCB14AT023	60HCB14AT023	LONG 23L	LONG 23L	LONG 23L	---	1	FL 52800	---	1	136	-135	91	0	-157	250	---	---	---	1222	7278	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
IK-525EL 12#	125R	50HCB14AT023	60HCB14AT023	LONG 23R	LONG 23R	LONG 23R	---	1	FL 52800	---	1	170	-135	91	0	-202	250	---	---	---	1422	7078	8405	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



WALL SLEEVE ASSY (I)

WALL SLEEVE ASSY (II)

SR No.	W/Sleeve Assy Part Number	W/Sleeve Size	W/Sleeve Size Material	Reinforcing Plate Material
1	116L/A,133L/A,133R/A,137L/A,134L/A,135R/A	DN150 X 279.1	Carbon steel	Carbon steel
2	122L/A,122R/A,123L/A,123R/A,124L/A,124R/A,125L/A,125R/A	DN125	Carbon steel	Carbon steel



COMPANION FLANGE (600#)
MATERIAL: CARBON STEEL to ASTM A105, (0.25% C max)

NOTES

- Under operating conditions with the boiler/heater hot and on load the blower should be at 90° to the boiler in plan and have a drainage slope 'G' towards the wall. The slope should be measured from the CL of the poppet valve adjusting disc to the lance CL at the wallbox. The top of the beam should not be used for this setting.
- Dimension 'H' is used for installation purposes with the boiler cold. It is the height of the adjusting disc retaining pin CL relative to the lance CL at the wallbox with the boiler cold. H = G-[A.(L4/L3)]
A +ve dimension means the retaining pin CL will be above the lance CL at the wallbox and vice versa.
- Dimensions 'A', 'B' and 'C' are boiler expansions, as defined on the layout sheets, when known. Dimension 'J' is the nominal 'hot' deflection of the lance tip, relative to the lance CL at the wallbox. This includes the effect of dimension 'G'. The deflection of the lance tip with the boiler cold and the lance fully extended, 'Jc', can be calculated by: Jc = H.(L2/L4).
- Dimension 'U' is the clear space required to remove the blower from the boiler.
- Steam supply branch line piping should be designed to take care of expansions in all directions. Drain branch lines should run towards the main with a minimum slope of 40mm/metre. Steam mains should have the same minimum slope towards the drain.
- Right hand (RH) blower shown, left hand (LH) blower opposite.
- D, E and F are approximate blower weights as follows:
D = approximate total blower weight
E = load at front support with lance extended
F = load at rear with lance retracted
- Control and power cable connection: See wiring diagram.

ERECTION NOTES

- Using temporary supports, offset the rear of the blower so that when the boiler is hot it will be at 90° to the boiler in plan view (ref expansion 'B').
- Set the height of the blower to dimension 'H' (ref notes 1 and 2).
- Weld the rear support plates to the beam shell so that the rear support pin will be positioned 40mm from the end of the slot. Attach the rear of the blower to the supporting steelwork which is to be designed and supplied by the customer.
- Remove temporary rear supports and check alignment.
- Fit companion flange to the blower and complete steam pipework.
- When the boiler is hot the 'G' dimension and squareness in plan should be checked.
- After the blower has been operated a few times with live steam, the feed tube packing should be adjusted to compensate for bedding in. Refer to the manual for procedure.
- In order to absorb any boiler movement at start up and shut down, please install precise rear support position in the elongate hole as per the dimensions.

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IK-525EL SOOTBLOWER ARRANGEMENT

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