

DATA SHEET including Technical Mandatory Requirements

The Proposer will enclose with his proposal the following completely filled out data sheet.

NOTE:	1. Items marked with a # are mandatory. the Proposers must fill in yes/no and data required with respect to each mandatory item.
	2. OEM technical catalog to be provided for components marked with \$

	DESCRIPTION	Ash	Unit		
1	GENERAL				
1.1	Manufacture				
1.2	Country of origin				
1.3	FLT- ECH model				
2	CAPACITIES & LOAD CENTER :				
2.1	FLT- ECH wight (including spreader)	≥41	ton.		
2.2	Lifting capacity	≥9	ton.	#	
2.3	Load center		mm		
2.3.1	FLT- ECH operation with sidelif spreader	≥1,220	mm	#	
3	STABILITY AND SAFETY (see para 3.1) for use:				
3.1	Structure Standard				
3.2	Stability				
3.2.1	Static stability Standard				
3.3	Safety Standard				
3.4	Additional standards:				
3.4.1	Machine directive in Europé				
3.4.2					
3.4.3					
3.4.4					
3.4.5					
3.4.6	ANSI B56.1	yes		#	yes
3.4.7	EN 1175:2020	yes		#	yes
3.4.8	CE marking	yes		#	yes
4	MAST CONFIGURATION :				
4.1	Free view mast				
4.1.1	Duplex mast	yes		#	yes
4.1.2	Inner width of mast - mobile mast	max	mm		
4.1.3	Inner width of mast - fixed mast	max	mm		
4.2	Number of rollers on fixed mast				
4.3	Number of rollers on mobile mast				
4.4	Lift height - number of containers under the spreader				
4.4.1	Container 8'6"	≥6 - 8'6"		#	
4.4.2	Container 9'6"	≥5 - 9'6"		#	
4.5	Max. lift height under the spreader / twist locks		mm		
4.6	Min. lift height under the spreader / twist locks		mm		
4.7	Height mast extended		mm		
4.8	Height mast lowered - para. 5.1 (less than 9,400 mm)	≤ 9,400	mm		
4.9	Lifting cylinders				
4.9.1	Bore		mm ²		
4.9.2	stroke		mm		
4.10	Forward tilt angle		degree		
4.11	Backward tilt angle		degree		
4.12	Tilting cylinders				
4.12.1	Bore		mm ²		
4.12.2	Stroke		mm		
4.13	Mast manufacturer				
4.14	Mast and chains - heavy-duty	yes			
4.15	Outer mast - fixed mast				
4.15.1	Length		mm		
4.15.2	Width	max	mm		
4.15.3	Weight	max	kg		
4.16	Inner mast				
4.16.1	Length		mm		
4.16.2	Width	max	mm		

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	DESCRIPTION	Ash	Unit		
4.16.3	Weight	max	kg		
4.17	Overlap between the outer mast and the inner mast	max	mm		
5	DIMENSIONS WEIGHTS AND STABILITY:				
5.1	Overall truck width				
5.1.1	Over Tires width - front	≥4,000	mm	#	
5.1.2	Over Tires width - rear	max.	mm		
5.2	FLT- ECH length to front face of spreader		mm		
5.3	Wheel base	≥4500	mm		
5.4	Distance between center of front axle – front face of spreader (load distance)		mm		
5.5	Seat height	max.	mm		
5.6	Overhead guard height		mm		
5.7	Turning radius				
5.7.1	Outer turning radius of the truck	min.	mm		
5.7.2	Inner turning radius of the truck	min.	mm		
5.7.3	Radius (inner) of 20' container	min.	mm		
5.7.4	Outer radius of 40' container	min.	mm		
5.7.5	Radius (Inner/front) of 40' container	min.	mm		
5.8	Aisle width with 20' container and operating clearance – 100 mm each side.	min.	mm		
5.9	Aisle width with 40' container and operating clearance – 100 mm each side.	min.	mm		
5.10	FLT- ECH service weight (including spreader) mast in a vertical position - unladen	max.	Kg		
5.10.1	Drive (front) axle loading - unladen		Kg		
5.10.2	Steering axle loading - unladen		Kg		
5.11	FLT- ECH service weight - including spreader, mast in a vertical position & 9 ton laden		Kg		
5.11.1	Drive axle (front) loading - laden		Kg		
5.11.2	Steering axle loading - laden		Kg		
5.12	Stability and safety according to-specify standard				
5.18	Static stability factor - 9 ton	max	≥2.6		
5.13	Counterweight weight		Kg		
6	PERFORMANCE :				
6.1	Top travel speed without load		Km/hr.		
6.1.1	Forward	≥ 23	Km/hr.		
6.1.2	Backward	≥ 23	Km/hr.		
6.2	Top travel speed with load		Km/hr.		
6.2.1	Forward	≥ 21	Km/hr.		
6.2.2	Backward	≥ 21	Km/hr.		
6.3	Lift speed				
6.3.1	Without load	≥ 0.55	m/sec.		
6.3.2	With load	≥ 0.50	m/sec.		
6.4	Lowering speed				
6.4.1	Without load	≥ 0.50	m/sec.		
6.4.2	With load	≥ 0.55	m/sec.		
6.5	FLT-EC travel speed limitation (adjustable by technician) depends on the spreader height (adjustable by technician) and the mast tilted backward position (adjustable by technician).	yes		#	yes
6.5.1	Travel speed limitation about - 10 [km/h] (adjustable by technician)	yes		#	yes
6.5.2	Spreader height (Above the driver's eye level) about - 4,700 [mm] (adjustable by technician)	yes		#	yes
6.5.3	Mast tilted backward position (adjustable by technician)	yes		#	yes
6.6	Max gradeability				
6.6.1	without load	max	%		
6.6.2	with load	max	%		
6.7	Drawbar pull				
6.7.1	Without load	max	KN		
6.7.2	Without load	max	KN		
7	SPREADERS			\$	

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	DESCRIPTION	Ash	Unit		
7.1	SPREADER - 20' and 40' ISO empty containers - Capacity ≥ 9 kg - see para. 7.1 Attachment A Section A			# \$	yes
7.1.1	Spreader manufacturer				
7.1.2	Manufacturing country				
7.1.3	Type				
7.1.4	Side mounting	yes		#	yes
7.1.5	Capacity	≥ 9	Kg	#	yes
7.1.6	Carriage weight		Kg		
7.1.7	Spreader weight		Kg		
7.1.8	Total weight (carriage & spreader)		Kg		
7.1.9	Telescoping - extension time 20' to 40'	min.	sec		
7.1.10	Telescoping - retraction time 40' to 20'	min.	sec		
7.1.11	Spreader side shift	yes		#	yes
7.1.11.1	Integral side shift	yes			yes/no
7.1.11.2	Spreader side shift range each side	≥ +/- 600	mm.	#	
7.1.11.3	cylinders - side shift				
7.1.11.3.1	bore		mm ²		
7.1.11.3.2	stroke		mm		
7.1.11.3.3	Protected cylinder	yes			yes/no
7.1.12	Spreader mechanical Pile Slope (MPS)	yes		#	yes
7.1.12.1	Vertical levelling stroke (up / down)	~250	mm		
7.1.13	Hydraulic Pile Slope (HPS) - option	yes			yes/no
7.1.13.1	Hydraulic pile slope with 20' container	max	degree		
7.1.13.2	Hydraulic pile slope with 40' container	max	degree		
7.1.14	Safety features and interlocks provided according to para. 7.5 Attachment A Section A.	yes		#	yes
7.1.15	Three indicator lights for twist lock position on the spreader	yes		#	yes
7.1.15.1	Seated - orang	yes		#	yes
7.1.15.1.1	Two or one orang light	2			yes/no
7.1.15.1.2	Led light	yes			yes/no
7.1.15.2	Unlocked - red	yes		#	yes
7.1.15.2.1	Led light	yes			yes/no
7.1.15.3	Locked - green	yes		#	yes
7.1.15.3.1	Led light	yes			yes/no
7.1.16	Three indicator lights for twist lock position in the cab	yes			yes/no
7.1.17	No engagement - all twist locks are seated in the container corner casting	yes		#	yes/no
7.1.18	No disengagement - when the container is suspended.	yes		#	yes/no
7.1.19	No lifting - when the twist locks are not fully locked or unlocked (interrupt of lift circuit)	yes		#	yes/no
7.1.20	Locking system				
7.1.20.1	Vertical twist-lock system	yes		#	yes/no
7.1.20.2	Hydraulically operated	yes		#	yes/no
7.1.20.3	Twist-lock operation - automatic locking & manually locking	yes		#	yes/no
7.1.20.4	Changing between manual and automatic by a Switch	yes		#	yes/no
7.1.20.5	Lift counter by the spreader	yes		#	yes/no
7.1.21	Two cameras pointing at twist locks on spreader - as an option			\$	
7.1.19.1	Mounted on the spreader				
7.1.19.2	Mounted on the mast				
7.1.19.3	Manufacturer				
7.1.19.4	Type				
7.1.22	Lowering interrupt device - to eliminate slacking - see para. 7.13.1 Attachment A Section A.	yes			yes/no
7.1.23	Soft landing function by sensor as an option para. 7.13.2	yes			yes/no
7.2	SPREADER - 20', 40' and 45' (in 40' position) ISO empty containers - Capacity ≥ 11 kg - Option - 1 - see para. 7.2 Attachment A Section A	yes		\$	yes/no
7.2.1	Spreader manufacturer				yes/no
7.2.2	Manufacturing country				
7.2.3	Type				
7.2.4	Side mounting	yes			yes

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	DESCRIPTION	Ash	Unit		
7.2.5	Capacity	≥11	Kg		yes
7.2.6	Carriage weight		Kg		
7.2.7	Spreader weight		Kg		
7.2.8	Total weight (carriage & spreader)		Kg		
7.2.9	Telescoping - extension time 20' to 40'	min.	sec		
7.2.10	Telescoping - retraction time 40' to 20'	min.	sec		
7.2.11	Spreader side shift	yes			yes
7.2.9.1	Integral side shift	yes			yes/no
7.2.9.2	Spreader side shift range each side	≥+/-600	mm.		
7.2.9.3	cylinders - side shift				
7.2.9.3.1	bore		mm ²		
7.2.9.3.2	stroke		mm		
7.2.9.3.3	Protected cylinder	yes			yes/no
7.2.12	Spreader mechanical Pile Slope (MPS)	yes			yes
7.2.12.1	Vertical levelling stroke (up / down)	~250	mm		
7.2.13	Hydraulic Pile Slope (HPS) - option	yes			yes/no
7.2.13.1	Hydraulic pile slope with 20' container	max	degree		
7.2.13.2	Hydraulic pile slope with 40' container	max	degree		
7.2.14	Safety features and interlocks provided according to para. 7.5 Attachment A Section A.	yes			yes
7.2.15	Three indicator lights for twist lock position on the spreader	yes			yes
7.2.15.1	Seated - orang	yes			yes
7.2.15.1.1	Two or one orang light	2			yes/no
7.2.15.1.2	Led light	yes			yes/no
7.2.15.2	Unlocked - red	yes		#	yes
7.2.15.2.1	Led light	yes			yes/no
7.2.15.3	Locked - green	yes		#	yes
7.2.15.3.1	Led light	yes			yes/no
7.2.16	Three indicator lights for twist lock position in the cab	yes			yes/no
7.2.17	No engagement - all twist locks are seated in the container corner casting	yes			yes/no
7.2.18	No disengagement - when the container is suspended.	yes			yes/no
7.2.19	No lifting - when the twist locks are not fully locked or unlocked (interrupt of lift circuit)	yes			yes/no
7.2.20	Locking system				
7.2.20.1	Vertical twist-lock system	yes			yes/no
7.2.20.2	Hydraulically operated	yes			yes/no
7.2.20.3	Twist-lock operation - automatic locking & manually locking	yes			yes/no
7.2.20.4	Changing between manual and automatic by a Switch	yes			yes/no
7.2.20.5	Lift counter by the spreader	yes			yes/no
7.3	SPREADER - two 20' or 40' ISO empty containers - Capacity ≥11 kg - Option - 2 - see para. 7.3 Attachment A Section A	yes		\$	yes/no
7.3.1	Spreader manufacturer				yes/no
7.3.2	Manufacturing country				
7.3.3	Type				
7.3.4	Side mounting	yes			yes
7.3.5	Capacity - two 20' or 40' ISO empty containers	≥11	Kg		yes
7.3.6	Carriage weight		Kg		
7.3.7	Spreader weight		Kg		
7.3.8	Total weight (carriage & spreader)		Kg		
7.3.9	Telescoping - extension time 20' to 40'	min.	sec		
7.3.10	Telescoping - retraction time 40' to 20'	min.	sec		
7.3.11	Spreader side shift	yes			yes
7.3.11.1	Integral side shift	yes			yes/no
7.3.11.2	Spreader side shift range each side	≥+/-600	mm.		
7.3.11.3	cylinders - side shift				
7.3.11.3.1	bore		mm ²		
7.3.11.3.2	stroke		mm		
7.3.11.3.3	Protected cylinder	yes			yes/no
7.3.12	Spreader mechanical Pile Slope (MPS)	yes			yes
7.3.12.1	Vertical levelling stroke (up / down)	~250	mm		
7.3.13	Hydraulic Pile Slope (HPS) - option	yes			yes/no
7.3.13.1	Hydraulic pile slope with 20' container	max	degree		

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	DESCRIPTION	Ash	Unit		
7.3.13.2	Hydraulic pile slope with 40' container	max	degree		
7.3.14	Safety features and interlocks provided according to para. 7.5 Attachment A Section A.	yes			yes
7.3.15	Three indicator lights for twist lock position on the spreader	yes			yes
7.3.15.1	Seated - orang	yes			yes
7.3.15.1.1	Two or one orang light	2			yes/no
7.3.15.1.2	Led light	yes			yes/no
7.3.15.2	Unlocked - red	yes		#	yes
7.3.15.2.1	Led light	yes			yes/no
7.3.15.3	Locked - green	yes		#	yes
7.3.15.3.1	Led light	yes			yes/no
7.3.16	Three indicator lights for twist lock position in the cab	yes			yes/no
7.3.17	No engagement - front (hooks) and side (clamps) locks are Cconnected in the container corner casting	yes			yes/no
7.3.18	No disengagement - when the container is suspended.	yes			yes/no
7.3.19	No lifting - when the twist locks are not fully locked or unlocked (interrupt of lift circuit)	yes			yes/no
7.3.20	Locking system				
7.3.20.1	front (hooks) and side (clamps) system	yes			yes/no
7.3.20.2	Hydraulically operated	yes			yes/no
7.3.20.3	front (hooks) and side (clamps) - automatic locking & manually locking	yes			yes/no
7.3.20.4	Changing between manual and automatic by a Switch	yes			yes/no
7.3.20.5	Lift counter by the spreader	yes			yes/no
8	ENGINE				\$
8.1	Make				
8.2	Model				
8.3	Type of fuel				
8.4	Met the emissions standard at least - EU stage V or EPA Tier 4f for units produced in USA and approved by the Israeli Ministry of Transport	yes		#	yes
8.5	Complete with electronic management control system	yes			yes/no
8.6	Common rail fuel injection system	yes			
8.7	Power output	≥180	Kw	#	
8.7.1	Rated speed		rpm		
8.7.2	According to standards:		std.		
8.8	Max. torque (output) at speed	MAX	Nm		
8.8.1	Rated speed		rpm		
8.8.2	According to standards:		Std.		
8.9	Displacement	cm ³	cm ³		
8.10	Fuel tank capacity	max.	liter		
8.11	Fuel capacity enables 24 operating hours	yes			yes/no
8.12	Fuel consumption - average - standard conditions.	min.	liter/h		
8.13	Oil capacity		liter		
8.14	Tropical cooling system (45°C)	yes		#	yes
8.15	Coolant capacity system (including radiator)	max	liter		
8.16	Coolant filter		yes		yes/no
8.17	Engine in side (maintenance) software & accessories (as per para. 8.1 Attachment A Section A.)	yes			yes/no
8.18	Upswept muffler	yes			yes/no
8.19	Engine air inlet				
8.19.1	Cyclone pre cleaner - make & type	yes		#	\$
8.19.1.1	Type				
8.19.1.2	Make				
8.19.2	Heavy-duty double stages dry paper	yes			
8.19.2.1	Type				
8.19.2.2	Make				
8.19.2.3	Restriction indicator provided	yes			
8.19.3	Air inlet height above ground level	max	mm		
8.20	ENGINE PROTECTION SYSTEM - PARA. 8.10 Attachment A Section A - (Shut off protection system or "crawl home" system) - Para. 8.10 Attachment A Section A			#	
8.20.1	Shut off system or "Crawl Home" System				

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	DESCRIPTION	Ash	Unit		
8.20.2	Engine - high coolant temperature	yes		#	yes
8.20.3	Engine - low coolant level	yes		#	yes
8.20.4	Engine - low oil pressure	yes		#	yes
8.20.5	Transmission - high oil temperature	yes			yes/no
8.21	Engine (maintenance) software & accessories (including all connections) for the laptop and two PC working stations	yes			yes/no
8.22	Fuel system - Start and stop function -Option - Attachment A Section A para 11	yes			yes/no
9	TRANSMISSION			\$	
9.1	Make				
9.2	Model				
9.3	Type - Automatic power shift with torque converter	yes		#	yes/no
9.4	Number of speeds (forward/reverse)				
9.5	Rated power		Kw		
9.6	Weight dry		kg		
9.7	With lock up	yes			yes/no
9.8	Transmission oil capacity		liter		
9.9	Transmission oil radiator size		cm ³		
9.10	Changing direction allowed without full stop at max. speed of	yes	km/hr		
9.11	Time delay between direction change		sec		
9.12	Safety protection against starting of travel in high gear provided	yes			yes/no
9.13	Transmission software for maintenance in according with para. 8.9 Attachment A Section A	yes			yes/no
9.14	Synthetic oil - as an option	yes			yes/no
10	DRIVE AXLE:			\$	
10.1	Make				
10.2	Model				
10.3	Axis width	≥4		#	
10.4	Number of wheels on drive axle	4		#	
10.5	Maximum axle capacity	max	Kg		
10.5.1	Maximum rating capacity	max	Kg		
10.5.2	Maximum actual capacity	max	Kg		
10.6	Differential Reduction ratio				
10.7	Planetary final drive provided	yes			yes/no
10.8	Reduction ratio				
10.9	Axis width ~4.5 m - option	~4.5		\$	
10.9.1	Make				
10.9.2	Model				
10.9.3	Maximum axle capacity				
10.9.3.1	Maximum rating capacity	max	Kg		
10.9.3.2	Maximum actual capacity		Kg		
10.9.4	Differential Reduction ratio				
10.9.5	Planetary final drive provided	yes			yes/no
10.9.6	Reduction ratio				
11	STEER AXLE			\$	
11.1	Make				
11.2	Model/hydrostatic				
11.3	Maximum axle capacity	max	Kg		
11.3.1	Maximum designed capacity	max	Kg		
11.3.2	Maximum actual capacity	max	Kg		
11.4	Double ended single steering cylinder provided	yes		#	yes
11.5	Turning angle		degree		
11.6	Steering cylinder				
11.6.1	Bore		mm		
11.6.2	Stroke		mm		
11.7	Dead engine steering	yes			yes/no
11.7.1	Electro hydrostatic dead engine seteering	yes			yes/no
11.8	Protection rings on steering wheel nuts	yes			yes/no
11.9	Steer axle with reduced stroke steer cylinder for safety operation and reduce tires wear - option	yes			yes/no
12	BRAKES			\$	
12.1	Make/model				

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	DESCRIPTION	Ash	Unit		
12.2	Brake system - hydraulic	yes		#	yes
12.3	Oil wet multi disc system	yes		#	yes
12.4	Totally enclosed oil immersed mutilate disc brakes	yes			yes/no
12.5	Number of plate				
12.6	Maintenance free	yes			yes/no
12.7	Automatic adjustment	yes			yes/no
12.8	Torque rating	max	kg-m		
12.9	PARKING BRAKES	yes			yes/no
12.9.1	Dry disc brake	yes			yes/no
12.9.2	Fitted on the shaft to the front drive axle	yes			yes/no
12.9.3	On the front drive axle	yes			yes/no
12.9.4	Automatic applied when pressure fall	yes			yes/no
12.9.5	Applied when pressure below		bar		
12.9.6	The transmission will disengage when the parking brake will apply	yes			yes/no
13	Tyres - Diagonal				\$
13.1	Manufacturer				
13.2	Type				
13.3	Port application or industrial	yes		#	
13.4	TT or TL	TL			
13.5	Front & Rear - Tyres size:				
13.5.1	Load designed - Load index at Speed symbol (A5)				
13.5.2	PR rating				
13.6	Spare wheel (with DIAGONALtyres) complet - option	yes			yes/no
14	Tyres - Six (6) Wheels with Radial - option	yes			\$
14.1	Manufacturer				
14.2	Type				
14.3	Port application or industrial	yes			yes
14.4	TT or TL	TL			
14.5	Front & Rear- Tyres size:				
14.5.1	Load designed - Load index at Speed symbol (A5)				
14.6	Spare wheel (with radial tyre) complet - option	yes			yes/no
15	Tyre - Pressure Monitoring System (TPMS) with display inside the cabin - option	yes			\$ yes/no
16	HYDRAULIC SYSTEM				
16.1	Number of pump				
16.2	Hydraulic pump 1				\$ yes/no
16.2.1	Manufacture				
16.2.2	Type				
16.2.3	Pump output		l/min.		
16.2.4	Working pressure		kg/cm2		
16.3	Hydraulic pump 2				\$
16.3.1	Manufacture				
16.3.2	Type				
16.3.3	Pump output		l/min.		
16.3.4	Working pressure		kg/cm2		
16.4	Hydraulic pump 3				\$
16.4.1	Manufacture				
16.4.2	Type				
16.4.3	Pump output		l/min.		
16.4.4	Working pressure		kg/cm2		
16.5	Multi stage control valve -	yes			\$ yes/no
16.6	All hoses well protected against operation damage	yes			yes/no
16.7	Flexible hoses short as possible and easily replaceable	yes			yes/no
16.8	All cylinder rods chrome plated	yes			yes/no
16.9	All hydraulic components heavy duty type	yes			yes/no
16.10	Hydraulic accumulator - To reduce shocks in the lift system	yes			yes/no
16.11	Tank oil capacity		liter		
16.12	Total oil capacity		liter		
17	ELECTRICAL SYSTEM				
17.1	Voltage	24	Volt		
17.2	Alternator				\$

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	DESCRIPTION	Ash	Unit		
17.2.1	Manufacture				
17.2.2	type				
17.2.3	Alternator rating	≥120	Amp.		
17.3	Battery make/type			\$	
17.3.1	Battery capacity	≥12X140	Amp h		
17.3.2	Maintenance free battery	yes			yes/no
17.4	Battery master switch	yes			yes/no
17.5	Fuses and relays install in central electrical box	yes			yes/no
17.6	CAN-BUS system	yes			yes/no
17.6.1	interface connector to TRAFILOG	yes			yes/no
17.6.2	Including plug	yes			yes/no
17.6.3	Redundant CAN-BUS system	yes			yes/no
17.7	FLT-ECH software - para. 12.7 Attachment A Section B	yes			yes/no
17.8	Radio - para. 12.8 Attachment A Section B	yes			yes/no
17.9	Lights				
17.9.1	Four (4) front working lights on the cab	yes			yes/no
17.9.1.1	Led	yes			yes/no
17.9.2	Two (2) rear work/drive lights on the cab	yes			yes/no
17.9.2.1	Led	yes			yes/no
17.9.3	Two (2) wide beam working lights on the spreader	yes			yes/no
17.9.3.1	Led	yes			yes/no
17.9.4	Two (2) front headlights on the front fenders	yes			yes/no
17.9.4.1	Led	yes			yes/no
17.9.5	Tail, stop rear driving lights	yes			yes/no
17.9.5.1	Led	yes			yes/no
17.9.6	Four (4) direction indicators with hazard switch	yes			yes/no
17.9.6.1	Led	yes			yes/no
17.9.7	Rotating amber light – on top the cab	yes			yes/no
17.9.7.1	Led	yes			yes/no
17.9.8	Reverse warning alarm, with flashing lights	yes			yes/no
17.9.8.1	Led	yes			yes/no
17.9.9	Lighting operated automatically at engine starting	yes			yes/no
17.9.10	TELE SERVICE AND MONITORING - Attachment A, Section A para 12.10 - Option	yes			yes/no
18	FILTERS				
18.1	ENGINE AIR INTAKE:				
18.1.1.1	Cyclonic pre cleaner	yes		#\$	yes/no
18.1.1.2	Heavy duty	yes			yes/no
18.1.1.3	Manufacturer				
18.1.1.4	type				
18.1.2	Double stage air filter	yes		#\$	yes
18.1.2.1	Heavy duty	yes		#	yes
18.1.2.2	Manufacturer				
18.1.2.3	type				
18.1.2.4	Pre-cleaner type - 1 st stage	yes			yes/no
18.1.2.5	Filter type - 2 nd stage	yes			yes/no
18.1.2.6	Restriction indicator provided	yes			yes/no
18.2	HYDRAULIC SYSTEM				
18.2.1	No. of filters				
18.2.2	Filter no. 1 - on return line	yes			yes/no
18.2.2.1	Micron rating		micron		
18.2.2.2	With restriction indicator	yes			yes/no
18.2.3	Filters no.2 - on pressure line	yes			yes/no
18.2.3.1	Micron rating		micron		
18.2.3.2	Restriction indicator	yes			yes/no
18.2.4	Tank strainer	yes			yes/no
18.3	ENGINE OIL				
18.3.1	Heavy duty oil filter	yes			yes/no
18.3.2	Micron rating		micron		
18.4	TRANSMISSION OIL:				
18.4.1	Heavy duty oil filter	yes			yes/no
18.4.2	Micron rating		micron		
18.5	FUEL SYSTEM:				

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	DESCRIPTION	Ash	Unit		
18.5.1	Double stage fuel filter	yes		#	yes
18.5.2	Sediment bowl provided - 1 st stage	yes			yes/no
18.5.3	Replaceable cartridge - 2 nd stage		micron		
19	DRIVER CAB & CONTROLS:				\$
19.1	Enclosed operators cab and overhead guard are according to DIN &/or ISO &/or ANSI or equivalent standards	yes		#	
19.1.1	standarts:				
19.2	Rear cab location	yes		#	yes
19.3	Raised cabin	yes		#	yes
19.3.1	Operator seat height from the ground level	max	mm		
19.3.2	Driver's eye height (~4,500 mm)	max	mm		
19.3.3	Height of overhead guard (from ground level) (~4,900 mm)	max	mm		
19.4	Entrance to cab from both sides	yes			yes/no
19.5	View angle - front (angles layout drawing to be added)	yes			
19.5.1	Front view angles to - 6 x 8'6"	min.	degrees		
19.5.2	Front view angles to - 5 x 9'6"	min.	degrees		
19.6	Panoramic front window (One complete glass without connections)	yes		#	yes
19.7	Open sliding windows on both sides	yes		#	yes
19.8	Front window - laminated and tinted safety glass	yes		#	yes
19.9	Rear window - tinted safety glass	yes			yes
19.9.1	Rear window - laminated and tinted safety glass - Option				
19.10	Top window				
19.10.1	Perspex or polycarbonate with anti sun reflection - option	yes			yes/no
19.10.2	Laminated and tinted safty glass	yes			yes/no
19.10.3	Top window guard - option (Attachment A, Section A para 13.3)	yes			yes/no
19.11	Doors windows	yes			yes/no
19.11.1	Tinted glass				
19.11.2	Laminated and Tinted safty glass - option	yes			yes/no
19.12	Wipers (interval) and washers on front, rear and roof pane	yes			yes/no
19.13	Hand operated forward/reverse selector	yes			yes/no
19.14	Brake pedal and separate brake/inching pedal provided	yes			yes/no
19.15	Inching/brake - mini lever or push button in the joystick to directional Control (Attachment A, Section A para 13.8.1) - option	yes			yes/no
19.15.1	Mini lever or push button				
19.16	Separate control handles for all functions at right hand	yes			yes/no
19.17	Multifunction joystick for mast and spreader	yes			yes/no
19.18	Indicators according to para. 13.9 Attachment A Section A	yes			yes/no
19.18.1	Hour meter	yes			yes/no
19.18.2	Engine coolant temp	yes			yes/no
19.18.3	Fuel gauge	yes			yes/no
19.18.4	Ammeter	yes			yes/no
19.18.5	Engine oil pressure gauge	yes			yes/no
19.18.6	Transmission oil pressure gauge	yes			yes/no
19.18.7	Transmission oil temperature gauge	yes			yes/no
19.19	warning lights are according to para. 13.10 Attachment A Section A	yes			yes/no
19.19.1	Low engine oil pressure	yes			yes/no
19.19.2	Low coolant level	yes			yes/no
19.19.3	High coolant temperature	yes			yes/no
19.19.4	High transmission oil temperature	yes			yes/no
19.19.5	Low transmission oil pressure	yes			yes/no
19.19.6	Alternator	yes			yes/no
19.20	Full air suspension fully adjustable seat provided (Attachment A Section A para. 13.7)	yes		\$	yes/no
19.20.1	Manufacturer				yes/no
19.20.2	Type				yes/no
19.20.3	High backrest	yes			yes/no
19.20.4	Three-points safety belt	yes			yes/no
19.20.5	Three-points safety glowing belt in red or orange	yes			yes/no
19.20.6	Operator presence system	yes			yes/no
19.21	Folding seat provided with two-points belt	yes			yes/no

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	DESCRIPTION	Ash	Unit		
19.22	Max. sound level is according to para. 13.5 Attachment A Section A (tested according to EN 12053)	yes		#	yes
19.22.1	With closed cab	≤71	dB(A)	#	
19.22.2	With open doors	min.	dB(A)		
19.23	Heat insulation, heater/de-mister provided	yes			yes/no
19.24	Heat insulation between cab and engine	yes			yes/no
19.25	Heater / de-mister	yes			yes/no
19.26	Panoramic rear view mirrors inside cab	yes			yes/no
19.27	Two sides rearview mirrors mounted on front fenders	yes			yes/no
19.28	AIR CONDITION			\$	
19.28.1	Manufacturer				
19.28.2	Min. temperature in the cab (closed windows)	≤18°	°C		
19.28.3	Capacity (at idle)	max	BTU/h		
19.28.4	Capacity (at idle)	max	KW		
19.28.5	Refrigerant R134a				
19.29	Rear view camera & color monitor - Option (to be priced separately)	yes		\$	yes/no
19.29.1	Manufacturer				
19.29.2	Type				
19.29.3	Display size	≥7	inch		
19.29.4	Resolution	max	pixels		
19.29.5	Power source	24	VDC		
19.29.6	Mirror function: change left (right) to right (left) of object	yes			
19.29.7	Suitable for mobile use (vibration)	yes			
19.29.8	Rear angle view about	~120° – 140°			
19.30	Rear ultrasonic systems or radar system - option	yes		\$	yes/no
19.30.1	Manufacturer				
19.30.2	Type				
19.30.3	Numbers of transmitters				
19.30.4	Numbers of sensors				
19.30.5	Effective range - radius	max	mm		
19.30.6	Effective angle - degree	≥190	degrees		
19.31	Auxiliary of 24-volt - 4 units	yes			yes/no
19.32	Auxiliary of 12-volt - 4 units	yes			yes/no
19.33	Automatic engine and ignition stope, after 5 minutes idle (operator leaves his seat)	yes			yes/no
19.33.1	Adjustable	yes			yes/no
19.34	Support bar for equipment and prepared for installation - para. 13.12 Attachment A Section A	yes			
19.34.1	TOS	yes			yes/no
19.34.2	Communication system	yes			yes/no
19.34.3	public address system	yes			yes/no
19.35	Sun visor front	yes			yes/no
19.36	Sun visor back	yes			yes/no
19.37	Sun visor roof	yes			yes/no
19.38	Cabin protection cage - Option - see technical specification Attachment A Section A. A para. 13.4	yes			yes/no
19.39	Key switch override (by-pass override key switch) - option - Attachment A, Section A para 13.19				
20	Public Address System – Option - technical specification para. 13.18	yes		\$	yes/no
20.1	Manufacturer				
20.2	Type				
20.3	Heavy-duty system				
20.4	Manufacturing country				
20.5	volt	24			yes/no
20.6	Suitable for mobile use (vibration)	yes			yes/no
21	Fire suppression system - option	yes			yes/no
21.1	Automatic or Semi-automatic			\$	
21.2	Manufacturer				
21.3	Type				
22	Fire extinguisher	yes		\$	yes
22.1	Weight	max.	kg		

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	DESCRIPTION	Ash	Unit		
22.2	Volume	max.	m ³		
23	Anti-slipcover on fenders - Attachment A Section A para 15	yes			yes/no
23.1	Type of the anti - slipcover				
24	MAINTENANCE :				
24.1	Oil changing frequency:				
24.1.1	Engine oil		hr.		
24.1.2	Transmission oil		hr.		
24.1.3	Differential and final drive		hr.		
24.1.4	Hydraulic oil		hr.		
24.2	Filters changing frequency:				
24.2.1	Engine air filter		hr.		
24.2.2	Engine oil filter		hr.		
24.2.3	Transmission oil filter		hr.		
24.2.4	Hydraulic system filter		hr.		
24.2.5	Engine fuel filter		hr.		
24.3	Lubrication points and frequency:				
24.3.1	Number of FLT- ECH lubrication points				
24.3.2	Number of spreader lubrication points				
24.3.3	Lubrication frequency		HR.		
24.3.4	Easy access for daily check out provided	yes			
24.4	Central automatic lubrication system	yes		\$	yes/no
24.4.1	FLT-ECH without spreader				
24.4.1.1	Manufacturer			\$	
24.4.1.2	Type				
24.4.1.3	Reservoir capacity	~3	liter		
24.4.1.4	Pump discharge		cc/rev		
24.4.1.5	Electric low level control	yes			yes/no
24.4.1.6	Lubrication fault monitoring	yes			yes/no
24.4.1.7	Number of lubrication points	max			
24.4.1.8	General layout drawing	yes			yes/no
24.4.2	Spreader	yes			yes/no
24.4.2.1	Manufacturer			\$	
24.4.2.2	Type				
24.4.2.3	Reservoir capacity	~3	liter		
24.4.2.4	Pump discharge		cc/rev		
24.4.2.5	Electric low level control	yes			yes/no
24.4.2.6	Lubrication fault monitoring	yes			yes/no
24.4.2.7	Number of lubrication points	max			
24.4.2.8	General layout drawing	yes			yes/no
24.5	Maintenance kit - Option - Attachment A Section A para 15	yes			yes/no
25	QUALIFY CONTROL ACCORDING TO ISO 9001: 2015 - MANDATORY	yes		#	yes
26	AGENT IN ISRAEL	yes			
26.1	Name and address :				
26.2	No. of employees :				
26.3	Max. spare parts delivery time		days		
27	SERVICE IN ISRAEL				
27.1	Name and address :				
27.1.1	No. of employees :				
27.1.2	Covered working area :				
27.1.3	Max. spare parts delivery time		DAYS		
27.1.4	Authorized workshop approved / or agreement with work shop - attachment D Agreement	yes			yes/no
27.1.5	Relevant documents (certificates from M.O.T and / or agreement) should be submitted - ATTACHMENT D Agreement	yes			yes/no
29	Total quantity of FLT- ECHs for ISO empty containers of at least 8 ton lifting capacity and at least 5 containers (9'6") stacking height manufactured and supplied during the last 3 years (2021 - 2023):				
29.1	Worldwide			#	
29.1.1	2021	≥18		#	
29.1.2	2022	≥18		#	

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	DESCRIPTION	Ash	Unit		
29.1.3	2023	≥18		#	
30	Total quantity of FLT- ECHs supplied during the last 5 years (2019 - 20023)				
30.1	Worldwide	max			
30.2	In ISRAEL last 5 years	max			