



Chassis

In steel plate, arc welded, form a rigid load bearing structure. The particular structure permit access to all the components. The anterior wheel is connected to the frame by big thrust block bearings. The rear traction unit is suspended on levers hinged to the frame by pins and rubber springs. The wheel tyres 4.00-8 are in super elastic rubber and assembled on modular rims.

Traction unit

Made of expressly studied differential to obtain reliability and silence. Moved by a motor of high performance and reliability. The motor, A.C. Type, is provided with an encoder and a thermal valve that are in contact with the electronic control system: it is assembled transversely to the machine over the traction unit to be in a protect area and easily accessible.

Steering

The steering is obtained by the tiller rotation, these movement command a motor/gear unit that move the anterior wheel. The system is electric/electronic because the tiller move a potentiometer related to a chopper that control the A.C. motor of the drive unit: the drive chopper is related to the traction chopper to stop the machine in case of drive fault.

Electric/electronic system autonomy

The total system, of last generation, is principally provided with two connected choppers that control steering and traction. All the security requirements are satisfied: present man sensor, general security switch, automatic stop in case of fault, automatic parking brake. The machine is provided by a 36 V. high capacity battery that permitted a long autonomy: the battery can be changed or vertically or from a side as the battery place is provided by a bearings support.

Braking system

The tractor can brakes with two braking systems: at accelerator leave and by a foot pedal that make working two hydraulic drum brake assembled on traction unit. Very efficient is the leavebrake, electronically adjustable, that avoid skid also on slippery floors.

Drive place

The tractor permit by simple adjustments to move the seat and the tiller to have a comfortable drive with the driver seated or standing: these for help the work during the movements or the picking work. The feet level is very low to facilitate the rise and the descent.

Safety device

The tractors complies with actual prevention rules with regards to components, performances and stability.





	FEATURES	SPECIFICATIONS	U.M.	DEC Spa	DEC Spa
1	Manufacturer			DEC Spa	DEC Spa
2	Type			SP 20-4	SP 20-6
3	Tow	Nominal mass towable	Kg	4000	6000
4	Engine type	Electric - endothermic		Electric	Electric
5	Driving system	On the ground - standing - seated		Seated/ Standing	Seated/ Standing
6	Tyres	Pn=pneum. Se=superelastic.		Se	Se
7	Wheels	Number front./back X=tractors	Nr	1 / 2X	1 / 2X
8	Load plane	L x B (length.x breadth.)	mm	----	----
DIMENSIONS					
9	Floor height	h = height from the ground	mm	----	----
10	Encumbrances	L = length with hook	mm	1.773	1.773
11		B = breadth	mm	920	920
12		h 3 = foot panel height	mm	200	200
13		h 5 = seat height	mm	472	472
14		h 4 = height handle	mm	1150	1150
15	Wheelbase	Y = tread	mm	943	943
16	Roadway	C - with wheel centre . rear	mm	800	800
17	Height from the ground	lowest point	mm	100	100
18		with half wheelbase	mm	100	100
19	Steering range	R 1 = min.front external	mm	1.300	1.300
20		R 2 = min.rear external	mm	1450	1450
21		R 3 = min.rear internal	mm	350	350
22	Corridor width	for U-turns	mm	2500	2500
23	Height hook	S=centre from ground	mm	200	200
PERFORMANCES					
25	Speed	without / with load	Km/ h	14/10	14/8
26	Strain with hook	Continuous service 60' on flat	N	2000	3100
27	Strain with hook	Max. in flat 5"	N	3500	5000
28	Gradeability	Without / with max load	%	10/5	12/5/ 5
29	Real earth	with battery	Kg	1212	1250
30	Mass on axes	front/rear. With batt.	Kg	300/912	300/950
Transmission					
31	Battery	Type		Ironload	Ironload
32		Capacity 5h: Std.	V/Ah	36/310	36/310
33		Weight: Std.	Kg	412	412
34					
35	Electric engine	rotation power S2=60'	kW	3.5AC	5AC
36	Exchange rate and/or inverter	n. gear St. / in Reverse			
				Mechanical	Mechanical
37	Transmission	mechanical/hydraulic			
38	Tyres	front diameter / width	mm		
39		rear diamet.x width	mm		
40	Superelastics	front diameter / width	mm	312/116	312/116
41		rear diam./ width	mm	414/121	414/121
BRAKES					
42	Service brake	Mechan./ hydraul./ Electronic		Hydraul.	Hydraul.
43	Handbrake	number of brake axes		1	1
44		Mechan./ hydraul./ electronic		Mech. Automat.	Mech.Automat.
45	SUSPENSIONS	springs/springs/shock absorbers		Springs	Springs
46	STEERING	mechanical/electrical/ hydraulic		Electrical	Electrical
47	ELECTRICAL SYSTEM	electronic converter		Chopper AC	Chopper AC
48	TOW HOOK	manual / automatic		Manual	Manual
49	INDEPENDENCE	Distance travelled empty	Km	8	8

