

SERVICE MANUAL

SB36 / SB56 / SB58
SB60 / SB62 / SB64
Grape Harvester

Part number 6048223100

English
May 2000



HARVESTERS

BRAUD

A	BASIC SUPPLY
B	CONTROLS AND INSTRUMENTS
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TECHNICAL SPECIFICATIONS**Harvesting machines
Self-propelled machines****SB 64 - SB 62 - SB 60 - SB 58 - SB 56 and SB 36****HARVESTER****Disassembling the machine**

- The harvester assembly, including the buckets, is mounted on a special frame and fixed in only three points, thus making disassembly operations very easy.
- All hydraulic lines and electric connections between the self-propelled machine and the harvesting group are equipped with fast-couplings.
- Norias motor can be disassembled without touching the flexible lines.

Shaking header

- Operation principle: S.D.C. (Controlled Dynamic System = C.D.S.)
- Shaking header placed on 4 vibration damping supports.

The frame is made up of the following welded parts:

- Front
2 shaker carriers of thick plate, mounted on tight bearings
- Rear
The shaker rods are fixed to the thick tube channel and allow the shakers to be deformed separately without mutual interference.

Real height: 1.25 m with 26 holes to fix the shakers at any level.

- The shakers are made of very flexible nylon material which has been developed with the help of the Bureau d' Etudes BRAUD (BRAUD Research Department). They have two front holding holes and a rear articulation joint.
 - front fixing: two half flanges
 - rear fixing: mix with a rod and a connection
 - shaker diameter: 32 mm
- The two front shaker carriers are controlled by two small rods and two side cams with two inertial flywheels.
 - Impossible offset
 - Easy-to-adjust width (three positions)
 - Quick adjustable convergence
- Shaking frequency control and adjusting from the driver's seat.
- Permanent displaying of shaking frequency on the dashboard panel

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Noria collectors

This system is made up of two chains, each with 62 flexible buckets, with speed depending on the machine inching speed.

- two fast couplings to detach the noria-chain assembly and remove the first bucket easily.
- Inching by a hydraulic motor and reduction gearbox (without chain and mechanic limiting devices). Max. torque (300 daNm on noria shaft) is controlled by hydraulic pressure (150 bar).
- operation set through a button from the driver's seat.
- gathering height: 15 cm.
- side guard: stainless plates and plasticized plates.
- rear guard: PVC fenders.
- bucket operating function with standing machine to have them washed and maintained.
- harvesting assembly suspended on two points in the front and in the rear for self-levelling.
- side tilting:
- stalk-guide = from 165 with elastic amplitude up to 250 mm.
= 195 mm with elastic amplitude, up to 265 mm with long edge buckets.

Conveying

- 2 stainless steel side conveyors, with PVC belts, each powered by an hydraulic motor. Width: 600 mm.
- Belt centering kept by another central guide belt.
- Belt rotation reverser.
- Rotation speed displaying on the board computer.

Cleaning

- Lower extractors: Standard SB 64 and SB 58
Optional SB 62, SB 56 and SB 60

The 430 mm diameter rotor sucks the leaves through a duct in the front gathering channel before they fall into the buckets.

A sarment-chopper is mounted on the entry of each duct.

- Upper extractors: standard on all models.

The rotor has a 460 mm diameter and is equipped with a detachable sarment-chopper.

- rotor speed electrically controlled from the driver's seat (upper and lower extractors are controlled separately).
- speed controlled by the board computer: data relevant to upper or lower or conveyor cleaning operation are displayed alternatively through a selection switch.

Technical specifications**Containers**

- Two side containers with independent rear discharge controlled separately by electric push buttons.
- The container can return simultaneously.
- Harvest distribution by means of a large stainless steel auger (180 mm), with low speed and controlled directly by a motor.
- They can be set into operation separately from the harvesting assembly.
- Capacity:
 - 2 x1050 l
 - 2 x1300 l
 - 2 x1600 l excluding SB 36
- Clearance under the container articulation, with lowered machine: 2070 mm.

SELF-PROPELLED MACHINE**Frame**

- Square-sized tubular frame with two supporting beams and a front channel.
- Rear channel to stiffen the frame can be easily disassembled with the harvesting assembly.
- Two arms supporting the rear wheels, with articulation on the frame and orientation by means of cylinders, which ensure the possibility to lift the machine on the right or on the left side up to 600 mm. This makes it possible to adjust the machine leaning up to a 30%.
- Height adjusting stops to keep and restore the same operating height.
- Two front legs bearing sliding and rotating wheels, to fix an hydraulic bar with 80 mm tilting.
- A 600-mm machine lifting, synchronised with the corresponding rear side, makes it possible to adjust the leaning up to a 30%.
- The bar is fixed by a lock through a solenoid valve which controls:
 - each leaning position
 - leaning 3rd LED lighting up starting from 20% in slopes
 - electric power cut off.
- Speed ahead, 90° steering angle.

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Tyres

EQUIPM.	TYPE OF TYRES	PRESSURE (bar)
	SB 64 - 62 - 60 - 58 - 56	
Standard	Front 13.6 R 24 - 129 A 8 "Tubeless" Rear 16.9 R 28 - 136 A 8 "Tubeless"	2.4 1.6
Option 1	Front 420/70 R 24 130 A 8 "Tubeless" Rear 480/70 R 28 140 A 8 "Tubeless"	1.6 1.6
Option 2	Front 420/70 R 24 130 A 8 "Tubeless" Rear 540/65 R 28	1.6 1.6
Option 3	Front 420/70 R 24 130 A 8 "Tubeless" Rear 580/70 R 28 142 A 8	1.6 1.4
Option 4	Front 420/70 R 24 130 A 8 "Tubeless" Rear 580/70 R 26	1.6 1
Option 5	Front 420/70 R 24 130 A 8 "Tubeless" Rear 600/55 - 30.5 - PR 8 Tbl Trelleborg T 414 TL	1.6 1.1
	SB 36	
Standard	Front 13.6 R 24 129 A 8 Rear 14.9 R 30 filled with 75% of Chrysogel Max. speed limited at 18 km/h	2.4 207 litres of Chrysogel 1.9
Option 1	Front 420/70 R 24 130 A 8 "Tubeless" Rear 480/70 R 28 140 A 8 "Tubeless"	1.6 1.6
Option 2	Front 13.6 R 24 129 A 8 "Tubeless" Rear 16.9 R 28 136 A 8 "Tubeless"	2.4 1.6
Option 3	Front 13.6 R 24 129 A 8 "Tubeless" Rear 9.5 R 36****	2.4 4.0

Wheel tightening torque:

front 31 daNm, thus 42 daNm +10% -20% with non-rotating base nut

Rear 55 daNm, thus 70 daNm +10% -20% with non-rotating base nut

Ratio between rear and front circumferences: it must be between 1.12 and 1.20.

Wheel ballasting

Usually wheel ballasting isn't required. Anyway, in some particular cases, the wheels can be ballasted with liquid.

For ballasting with liquid the wheels equipped with **"Tubeless" tyres** calcium chloride cannot be used.

Mono-ethylene glycol liquids are recommended, with corrosion-preventers such as nitrites (NaNO₂).

For example: Ambra Agriflu diluted in water.

Freezing temperature - °C	- 16	- 18	- 25	- 37
% Agriflu	30	33	40	50

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Technical features

Inching - Driving

- **SB 64** - Diesel engine with 6 cylinders FIAT 8061 SI 11, water cooling system, turbocharger feeding, 140 CV.
- **SB 62** - Diesel engine with 6 cylinders FIAT 8061 SI 11, water cooling system, turbocharger feeding, 125 CV.
- **SB 60** - Diesel engine with 6 cylinders FIAT 8061 SI 11, water cooling system, turbocharger feeding, 117 CV.
- **SB 58 - SB 56** - starting from chassis numbers 628018001, 6-cylinder engine Fiat 8061 I 25.05 with water cooling system, atmospheric feeding by 102 CV.
- **SB 58 - SB 56 - SB 36** - Diesel engine with 4 cylinders Fiat 8041 SI 25 water cooling system, turbocharger feeding, 108 CV.
- Dry air filter with double cartridge. Filter clogging electric warning signal.
- Electric circuit 12 V, 124 Ah battery and 65 Ah standard alternator, 120 A from series 629072 and 628070.
- Optional: 140 Ah battery with 85 Ah alternator.

Starting from series 629-74, 628-72 and 627010 the alternator is 120 A-type.

Starting from the series 629A41:

- SB 64, 62 and 60 are equipped with engine 8065SE by 150 CV for SB 64 and 130 CV for SB 62 and 60.

Starting from the series 628050:

- SB 56 and 58 shall be equipped with 8061 LE engine by 118 CV net.

Starting from the series 627008:

- SB 36 shall be equipped with 8045 SE engine by 100 CV.
- The 140 Ah battery and the 80 A alternator are included in the standard supply starting from series 629A41, 628044, 627008.
- Fuel tank, 210 l capacity.
- Hydrostatic driving by variable displacement pump with servo-control and relief valve:

SAUER pump 90R 100.

Max. HP valve setting = see sketch of section J

- 4 "POCLAIN" wheel fixed-displacement motors
- Speed Field: 4WD = 11 km/h
 Road: 2WD = 24.5 km/h max. in France and Italy.
 22 km/h in Germany.

Nevertheless, with tyres 14.9 R 30 the max. speed shall be 20 km/h for models SB 56, 58, 60, 62, 64 and 18 km/h for models SB 36.

- In road position, this kind of transmission is equipped with an integral antiskid system between the front and the rear axle.
- Reverse speed is automatically set in 4RM, disregarding the machine driving mode, field or road.

Braking

- 2 emergency brakes, hydraulically controlled, integral with the rear motors.
- Locking in case of booster pressure lacking.
- Separate or simultaneous control by pedals from the driver's seat.
- Manual stopping locking (parking).
- Front, 2 fixed-displacement "POCLAIN" MS 08 motors on wheels.
- Rear, 2 double-displacement "POCLAIN" MSE 18 motors on wheels.

Hydraulic system

All lines are flexible, thus reducing the number of connections.

- Connections type ORFS (O-ring Face Seal) to reduce the possibility of leakage, apart from the low pressure lines.
- All connections of the harvesting assembly are protected.

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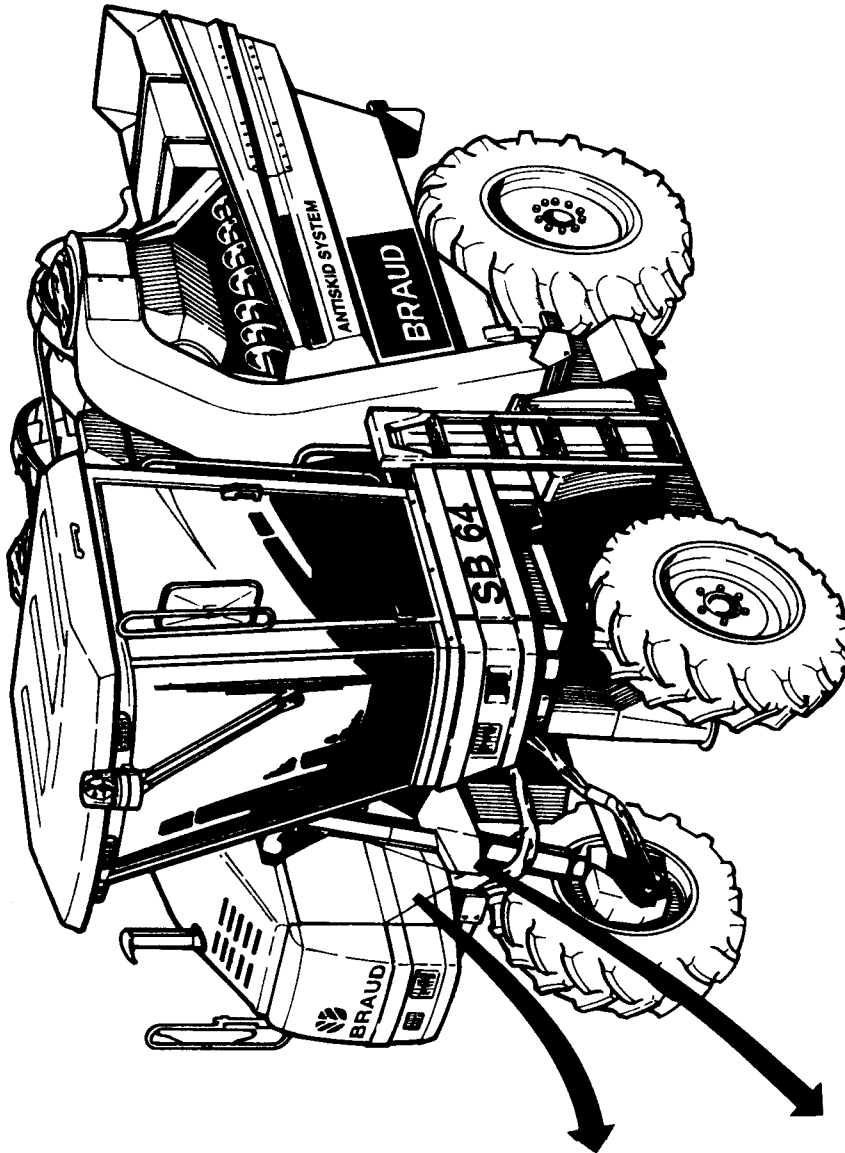
Driving platform

- Driver's seat placed on the front left of the machine, to give an overall view on the vineyard and the headland.
- Standard cab conditioning for SB 64 and SB 58.
- Steering wheel position adjusting.
- No hydraulic element inside the cab (to prevent accidents and noise).
- All tools to operate during the harvesting are controlled by buttons on the inching lever (leaning, shaking, cleaning).
- Electric safety leaning control.
- Compulsory simultaneous stopping of the whole machine assembly.
- Retractable ladder to facilitate getting on the harvesting header.

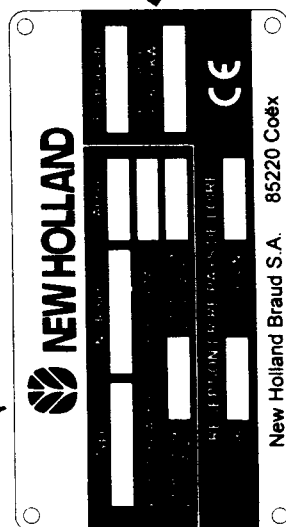
MULTI-PURPOSE

- These machines are partially multi-functioning, with a harvesting header which can be easily detached.
- Three fast coupling connections on the hydraulic system.
- Three fast coupling connection in the electric system.
- Noria motor disassembling without taking the hoses off.
- Removable lower fastening of left and right conveyor bearing channels.
- Removable articulation of the anti-backing bars.
- Possibility to adapt tools of series 2000 with a distribution kit.
- Hydraulic power take off by 30 or 45 CV.

BASIC SUPPLY



A



629 A02 001

B

MACHINE IDENTIFICATION

Model	Type	Serial number	Machine number of the series
SB 64	629	A02	001
SB 62	629	B03	001
SB 60	629	C12	001
SB 58	628	002	001
SB 56	628	002	001
SB 36	627	002	001
Starting from the following series, the letter of the serial number changes			
Model	Type	Serial number	Machine number of the series
SB 64	629	D54	001
SB 60	629	E53	001
SB 58	628	B50	001
SB 56	628	B51	001
SB 36	627	A08	001

A = Manufacturer's label

B = Stamped frame number

Note: the machine number on the manufacturer's data plate can be different depending on type of tyres installed and thus on the max. speed on road.

Example: in model SB 36 with rear wheels 16.9 R28, the number shall be 627 A10 001
in model SB 36 with rear wheels 14.9 R30, the number shall be 627 A10 101

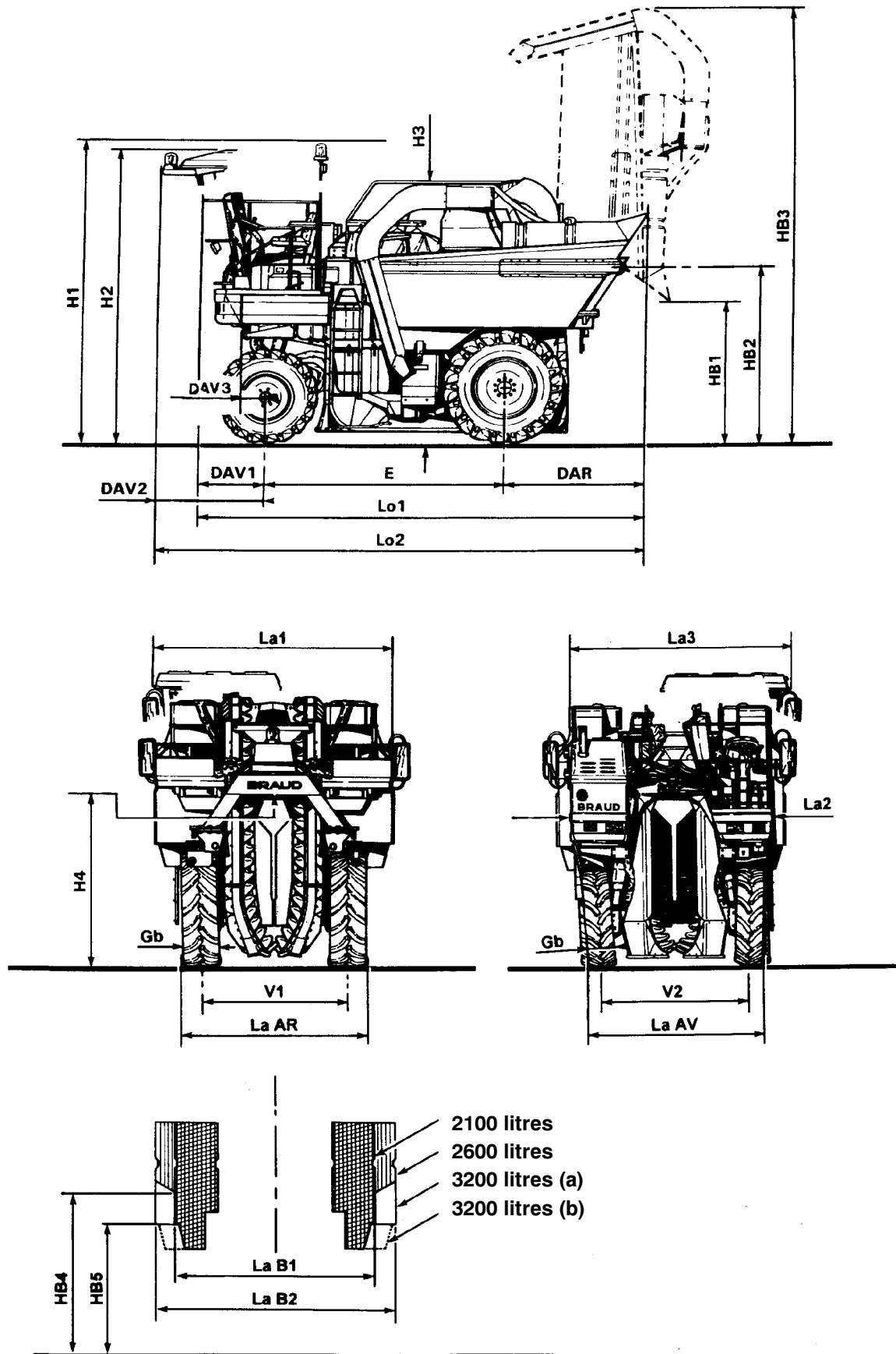
OPERATOR'S MANUAL

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SPARE PART CATALOGUE

Print no.: 604 81 055 00

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Section A

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COMMERCIAL DESCRIPTION			SB 64	SB 60 SB 62	SB 58	SB 56	SB36
SELF-PROPELLED MACHINE							
Code	DIMENSIONS (mm)						
H1	Height:	w/out cab		3650			3650
H2	(low harvesting header)	with cab	3530	3530	3530		3530
H3	Harvesting header at railings height		3240				
H4	Clearance under harvesting header		from 2000 to 2600				
HB1	Clearance under tilted up containers		1640				
HB2	Tilting axle height		2040				
HB3	Lifted container max. height		5040				
HB4	Height under	2600 l container clearance	1750				
HB5	Height under	3200 l container clearance	1370				
E	Pitch / c/c		2860				
La1	Total width	Containers 2100 l w/out cab	2650				2510
		2100 l + cab	2770				2570
		2600l or 3200 l	3000				2800
La2	Total width	Only self-propelled w/out cab	2560				2360
La3	Total width	Only self-propelled with cab	2790				2590
LaB1	Container width	2100 l	2530				2330
LaB2		2600 l or 3200 l	3000				2800
La AR	Outer width at rear wheels level: (V1 + Gb = La AR)	Tyres 14.9 R 30 Standard (Kléber) (misalign. = 130 mm) Narrow (Kleber) (misal. = 145 mm) Super-Narrow 9.5 R 36 (misal. = 129 mm) Tyres 16.9 R 28 Tyres 480 / 70 R 28 Tyres 540 / 65 R 28 Tyres 580 / 70 R 26 Tyres 600x55x30.5	2000+430 = 2430 2090+480 = 2570 2180+550 = 2730 2130+580 = 2710 2200+600 = 2800				1800+370 = 2170 1750+370 = 2120 2230 1800+250 = 2050
La AV	Outer width at front wheels level: (V2 + Gb = La AV) (V2 at ground level)	Tyres 13.6 R 24 Standard (Goodyear) Narrow (Goodyear) Tyres 420 / 70 R 24	1870+350 = 2220 1870+420 = 2290				1670+350 = 2020 1630+350 = 1980
Lo1	Total length:	w/out cab		5270			5270
Lo2		with cab	5710		5710		
DAV1	Front misalignment:	w/out cab		840			840
DAV2			1280		1280		
DAV3	Front multi-purpose support misalignment		300				
DAR	Rear misalignment		1570				

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	THERMAL ENGINE	SB 64 - SB 62			SB 58 - SB 56 - SB 36	
	Type	8061 SI 11.05			8040 SI 25.55	
	Manufacturer	IVECO AIFO				
	Version	Diesel				
	Cycle	Alternate				
	Stroke number	4				
	Number of cylinder and alignment	6 in line			4 in line	
	Bore (mm)	104				
	Stroke (mm)	115				
	Volume (cm ³)	5861			3908	
	Compression volume ratio	17.7/1				
	Max. net power (CV / kW EEC)	140/103	125/92	108/79.5		
	Max. speed (rpm)	2250			2300	
	Max. torque (daNm EEC)	61.2			33.9	
	Max. torque speed (rpm)	1300			1900	
	Max. rotation speed (rpm)	2450			1995=2570 1996=2470	

	THERMAL ENGINE WITH 6 CYLINDERS	SB 60	SB 56 - SB 58
Starting from the series		□ □ 629A40	from 628018 to 628049
Type		8061 SI 11.05	8061 I 25
Manufacturer		IVECO FIAT	
Version		Diesel	
Cycle		Alternate	
Stroke number		4	
Number of cylinder and alignment		6 in line	
Bore (mm)		104	
Stroke (mm)		115	
Volume (cm ³)		5861	
Compression volume ratio		17.7/1	
Max. net power (CV / kW EEC)		117/86	102/75
Max. speed (rpm)		2250	
Max. torque (daNm EEC)		55	
Max. torque speed (rpm)		1250	
Max. rotation speed (rpm)		2450	2580

	THERMAL ENGINE with 6 cylinders	SB 36	SB 60/62	- SB 64	SB56/58
	Starting from the series	627008	629A41		268050
	Type	8045SE	8065 SE		
	Manufacturer	IVECO FIAT			
	Version	Diesel			
	Cycle	Alternate			
	Stroke number	4			
	Number of cylinder and alignment	4	6 in line		
	Bore (mm)	104			
	Stroke (mm)	115			
	Volume (cm³)	3900	5861		
	Compression volume ratio		17.7/1		
	Max. net power (CV / kW EEC)	100/73.6	130/95.7		150/110.4 118/86.8
	Max. torque speed (rpm)	2300			
	Max. rotation speed (rpm)	2475		2450	

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Section A

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COMMERCIAL DESCRIPTION			SB64	SB60 SB62	SB58	SB56	SB36
	WEIGHT						
	Max. acceptable weight under load (kg)		8000		7900		
	Max. acceptable	Front axle (kg)	3500		3900		
	weight on:	Rear axle (kg)	4900		4900		
	Weight w/out load on:	Total	7670	7180	7580	7090	7600
		Front axle	3290	2970	3140	2820	2900
		Rear axle	4380	4210	4440	4300	4700
	Weight of one wheel (kg)	13.6 R 24	105				105
		420/70 R 24	120				120
		14.9 R 30	NO				360*
		16.9 R 28	170				170
		480/70 R 28	175				175
		580/70 R 26	230				NO
	Weight of self-propelled machine (kg) with only wheel equipment		4740	4560	4600	4420	4600
	420/70 R 24 and 580/70 R 26						
	13.6 R 24 and 14.9 R 30						
	Thermal engine weight (kg)		510		400		
	FEEDING / EXHAUST						
	Fuel tank	Used fuel	Diesel oil				
		Capacity (litres)	225				
	Engine feeding system		direct injection				
	Air cleaner	Manufacturer	DONALDSON		DONALDSON		
		Type	ELB 10-0057		ELB 08-0010		
	Noise level in the cab (dBA)		77		81.5		
	Engine cooling	Water capacity (l)	20				
		Fan	sucking				
	Cooling fan	ø (mm)	610		590 then 610 (1)		

- * with 75% of Chrysogel, that is 207 l. (1) with 6-cylinder engine.

BASIC SUPPLY

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COMMERCIAL DESCRIPTION			SB64	SB60 SB62	SB58	SB56	SB36
	MOTION TRANSMISSION						
	Engine fan pump	Manufacturer Displacement (cm³/rev.) Speed (rpm) empty Capacity (l/min.) output 0.9	SAUER 14/17* 2325 (93% of engine speed) 29/35*				
	Fan motor	Manufacturer Displacement (cm³/rev.)	SAUER (11) o 12.2				
	Variable displacement hydraulic pump (set for an inching speed max. 24.5 km/h)	Manufacturer Type Displacement (cm³/rev.) Wheels 13.6 R 24 Wheels 420 / 70 R 24	SAUER 90R100 from 0 to 94.4 (1) from 0 to 89.2	SAUER 90R100 from 0 to 90 (1) from 0 to 85			
	Boosting pump	Displacement (cm³/rev.) Capacity (l/min.) output 0.9	26 57.3	26 (60) 57.8			
	Front wheel motor	Manufacturer Type Displacement (cm³/rev.)	POCLAIN MS 08 934				
	Rear wheel motor	Manufacturer Type Displacement (cm³/rev.)	POCLAIN MSE 18 2500 (1406/1084)				
	Max. speed (km/h) on road		(18 km/h) 24.5 km/h (1)				
	Max. speed (km/h) on field		11				
	Hydraulic oil Type	Total capacity Tank	180 65 OLIO FIAT Hydraulicar HVI 46 or (2) NEW HOLLAND: Hydrosystem 46HV Idraulicar BS 46 Biosynthetic				
	Extractor and conveyor pump	Manufacturer Displacement (cm³/rev.) Speed rpm empty Capacity (l/min) output 0.9	VICKERS “Load sensing” from 0 to 41/45* 2500 (see engine rpm) 92.2/101.2*				
	Shaker/hopper * pump	Manufacturer Displacement (cm³/rev.) Speed rpm empty Capacity (l/min) output 0.9	SAUER ou BARNES* 22/19* 2500 (see engine rpm) 49.5/42.75 *				
	Steering/lifting * pump	Manufacturer Displacement (cm³/rev.) Speed rpm empty Capacity (l/min) output 0.9	SAUER 14/10.8 /14 * 2325 (93% of engine speed) 32/22/32 *				
	STEERING		HYDROSTATIC				
	Type	production 95 production 96 ↳	DANFOSS OSPC 125 EATON QAMP 145 cm³/rev.				

(1) depending on tyres and countries
(2) see SB no. 191.201 as for the standard

* see application number at the "Hydraulic System" chapter

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COMMERCIAL DESCRIPTION			SB64	SB60 SB62	SB58	SB56	SB36
	BRAKING						
	Service brake		by hydrostatic transmission				
	Parking brake (on both rear wheels)		by two pedals linked with a lever				
	SLOPE ADJUSTMENT		30%				
	PLATFORM CAB						
	Conditioned and heated cab		*	Option	*	Option	
	Activated charcoal filter		Option				
	Board computer		*	*	*	*	*
	De luxe seat		*	*	*	*	*
	Pneumatic seat		*	Option			
	Multi-purpose lever		*	*	*	*	*
	Climatization compressor	Manufacturer/Model Gas R 134 a (g) Oil SP 20 or SK 20 (cm³) Manufacturer Gas R 134a (g) Oil SP 20 or SK 20 g Speed (rpm)	Sanden U 4643 1900 FIAT LUBRIFICANTI LBAR 134 Add 125 g Seiko 121 DS 3 1900 (2) 125 (3) 2500 (1)				
	LIGHTING AND WARNING LIGHTS						
	High/low beams		2				
	Front position lights		2				
	Rear position lights		2				
	Direction indicators	Front Rear Side	2 2 2				
	Brake light		2				
	Number plate light		1				
	Reflector	Rear	2				
	Revolving beacon	w/cab	2				
		w/out cab	1				
	Supply voltage		12 V				

* = standard

** = without locking starting from series – 628040 – 627007

(1) Instead of 3300 rpm starting from 629051, 628050.

(2) Instead of 2100 rpm

(3) To be added without emptying the compressor



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BASIC SUPPLY

R01-00

COMMERCIAL DESCRIPTION			SB64	SB 60 SB62	SB58	SB56	SB36
HARVESTING EQUIPMENT							
HARVESTING HEADER							
		Type	Tilting, self-aligning				
		System	Shaking S.D.C.				
		Shaker number	14 supplied				
		Straight/bent control lever	13/1				
		Inching	EATON				
		Engine manufacturer	46				
		Volume (cm³/rev.)	3				
		Width position	from 2000 to 2600				
		Clearance under frame (mm)	1250				
		Grape harvesting total height (mm)					
HARVESTING/TRANSPORT							
		Noria system:	Buckets per chain		62		
			Synchronised		in field speed		
		Elastic stock guide width: (mm) (1)	from 195 to 265				from 165 to 235
		Tightness length (mm)	2100				
		Harvesting min. height (mm)	150				
		Inching	Engine manufacturer		EATON		
			Displacement (cm³/rev.)		243.9/500 (2)		
		Conveyors	Width (mm)		600		
			Speed (rpm) max.		about 750		
			Reverse		*		
		Only inching	Engine manufacturer		EATON		
			Displacement (cm³/rev.)		31.6		
CLEANING							
		2 upper extractors with removable stalk-choppers	Diameter (mm)		460		
			Inching		hydraulic		
			Engine manufacturer		SAUER		
			Displacement (cm³/rev.)		11		
		2 lower extractors with	Diameter (mm)		430		
			Inching		Hydr.		
			Engine manufacturer		SAUER	Option	NO
			Displacement (cm³/rev.)		6/ (8.4)		
		2 independent stalk-choppers	Inching		Hydr.	Option	NO
			Engine manufacturer		EATON		
			Displacement (cm³/rev.)		8.2		
			Rotation direction		reverse to the wheels		
HOPPERS							
		Capacity	Standard		2600		2100
			Other version		3200		2600
					3200		
		Electrically controlled distribution auger	Control independent from the harvesting equipment				

(1)According to the bucjet type

(2)See application nmbcr in the chapter of the Hy-draulic system

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