



# SDT SERIES SUCCESS IS NEVER A COINCIDENCE



In order to be successful, a great project must include the greatest number of possible solutions: so for the **VOLCAN series** we created **a SDT version with differentiated wheels**, designed for the various needs that our customers motivate us to satisfy every day.

**Performance, dimensions, manoeuvrability, comfort and safety** are the qualities our technicians gave emphasis to in order to create this project, what really makes **the difference between a specialised BCS tractor and a regular tractor.** 





#### **VOLCAN SDT**

# Specialised tractors with differentiated wheels in the configuration with steering wheels and DUALSTEER versions

The **VOLCAN SDT** are versatile and performing machines, the best qualities of which are manoeuvrability and reliability.

The **SDT range** counts on two versions: the traditional one with steering wheels and another one with the innovative **DUALSTEER** steering system. The remarkable differentiation between the diameter of the front wheels in comparison with the rear ones allows to limit the steering radius to the bare minimum.

The short pitch and the low centre of mass remain the winning features which enable these tractors to work without problems in limited areas and on steep slopes, where the **DUALSTEER** version is leading both in manoeuvrability and in stability.

The **VOLCAN SDT** have been designed for heavy uses in high stress conditions and therefore particular attention has been dedicated to the operator's comfort and safety. The control position and the comfortable cabins make the driving position handy and homely.



We are an **international company**, one of the most successful in the field of **farm machinery** and for **greens maintenance**.

Established in 1943 and certified ISO 9001 since 1994, we distinguish ourselves by the high quality of our products and the operational capability which embraces every stage of the process: design, production and distribution.

The **BCS dealers**, an integral part of our sales network, are expert professionals who are qualified to advise and assist every customer in choosing the most suitable machine for their own needs.



We carefully attend the **quality of our after-sales services**: authorized
dealers and parts dealers, with technical
and business support, are available to anyone
who needs prompt and safe servicing.

# The reasons for choosing us



At the time of purchase of a **SDT SERIES** tractor, we issue a **two-year warranty** which is included in the price and also covers the engine. Because safety and satisfaction of our Customers are dear to our hearts.







#### **SDT SERIES: QUALITY CHOICES BRING YOU FARTHER**



because, since we have been manufacturing them, we are continuing to redefine the rules of the specialised tractor world.

#### **EMISSIONS AND REDUCED CONSUMPTIONS**

thanks to the new technology of the cutting-edge engines.

TRANSMISSIONS WITH "LONG-LIFE" MULTIDISC WET **CLUTCHES**, less bulky than the standard dry single disc clutches but serving the machines all the life long.

#### **DUALSTEER® SYSTEM:**

the unique double steering system on the market of the specialised tractors: you can't give it up if you need the highest manoeuvrability of the tractor, with steering radius of 70°. The system improves the tractor's stability when using it on slopes. The DUALSTEER system has been patented by us.

MULTIDISC WET BRAKES assuring reliability and safety.

**RECORD DIMENSIONS:** 

minimum width at 135 cm. and reduced pitch at 160 cm. only, the best in the category.

ADVANCED SYSTEMS TO IMPROVE THE RELIABILITY OF THE **MACHINES:** the Self-Cleaning System takes care of the cooling system.

**HYDRAULIC SYSTEM WITH LARGE OIL OUTPUT** 

to the many control valves with oversized hydraulic pumps which guarantee high pressures and maximum performance.

FRONT AND REAR WHEELS WITH REMARKABLE

**DIFFERENTIATION** to enhance the traction features of the "conventional tractors" while keeping the qualities of the "isodiametric" tractors, exploiting the short pitch and the low centre of mass.

**ACTIVE AND PASSIVE SAFETY** 

guaranteed by the perfect weight distribution on the axles, by the low centre of mass, by the efficient braking system, by the protection frames and the homologated cabins, by the design logic of the controls and of the driving position.

**COMPACT AND COMFORTABLE CABINS** 

giving a sensation of wellness and safety.



# **Engines: performance**

The reduction of fuel consumption and emissions to a minimum and the maximisation of engine performance are the results of the innovative technological approach that distinguishes the propellers supplied with the **SDT** series. With the new **VM D753** and **D754** the **VOLCAN SDT** are equipped with an even larger and higher performance heart.

The new engines are distinguished by greater efficiency: more powerful thanks to the intercooler, cleaner and quieter thanks to the new technology in full compliance with the continually more restrictive regulations and even simpler in order to further enhance the choice of a **VOLCAN SDT** tractor, able to give you fantastic response from the start.

There are three VM engines available for the SDT SERIES, dedicated to harnessing the power of each individual drop of fuel.

VOLCAN 750 VM D753 IE3, 3 inline cylinder 2,2 liter Diesel turbo engine, 70 HP at 2300 r.p.m. thanks to the intercooler.

VOLCAN 850 VM D754 TE3, 4 inline cylinder 3 liter Diesel turbo engine, 79 HP at 2300 r.p.m.

VOLCAN 950 VM D754 IE3, inline cylinder 3 liter Diesel turbo engine, 91 HP at 2300 r.p.m. thanks to the intercooler.

SERIES SDT	Туре	Power (kW/hp)	No. of cylinders	Displacement	Aspiration	Cooling system
VOLCAN 750	VM D753 IE3	51,5 / 70	3	2230	Turbo Intercooler	Liquid
VOLCAN 850	VM D754 TE3	58 / 79	4	2970	Turbo	Liquid
VOLCAN 950	VM D754 IE3	67 / 91	4	2970	Turbo Intercooler	Liquid



# is the heart of evolution

For these models, VM has developed the new EGR System located inside the engine. The system provides for the recycling of the exhaust gases which, properly mixed, return to the combustion chamber, drastically reducing the nitrogen oxide (NOx) emissions and fuel consumption.



The decision to use a lower number of rpms, **2300 rpm/min** was conceived to reduce consumption, noise level and vibrations, with the benefit of savings and comfort.

#### **FEATURES:**

- THE TUNNEL BORE BASE allows great torsion and flexural rigidity.
- ROTARY MECHANICAL INJECTION PUMPS that make these propellers perform in all conditions, increasing reliability and lifespan.
- GEAR DISTRIBUTION WITH FORCED LUBRICATION,
  the maximum that you can ask for from a diesel.
- HYDRAULIC TAPPETS
  to minimise noise and eliminate maintenance.
- LOW-INERTIA TURBOCHARGERS
  for an immediate response when power is required.
- BALANCING SHAFTS to eliminate vibrations.



## **Self Cleaning System®**

Heat disposal, from both the engine and the hydraulic system, is essential to enable compact and powerful tractors to perform the demanding jobs for which they are intended without any problems.



Considering the primary uses for **SDT SERIES** tractors, a special cooling system was designed to allow the engine and the entire hydraulic system to always operate with the maximum safety margin.

The engine is protected by a large radiator assisted by the patented SCS (Self Cleaning System®).

A heat exchanger stabilises the hydraulic system temperature while a series of watertight grills on the engine hood also allows the propeller to breathe better and protects the radiator cores from clogs due to dust and debris raised by work equipment.



## Prevention is better than treatment!



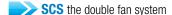
## Always clean air

The special cooling system is assisted by the patented **SCS (Self Cleaning System®)**, characterised by two fans with combined intermittent operation: an electromagnetically controlled intake and an electric blower.

The system prevents dangerous overheating of the engine and hydraulic system, keeping the radiators and ventilation grills always clean, thus preventing continuous stops in order to clean them.

Besides the SCS (Self Cleaning System®) function, the cooling system allows, at the operator's discretion, to adjust the radiator fans in order to activate or deactivate them according to the climatic and operational needs.

The system is controlled by a three function button, which activates in order:



ECO the single intake fan with intermittent function that activates/deactivates upon reaching a certain temperature

CMF the single intake fan which functions constantly

The operator can thus select the most suitable function based on the various uses and needs.





## **Absolutely unique transmissions**



Engine performance would be nothing if it weren't supported by the excellence of the transmissions.

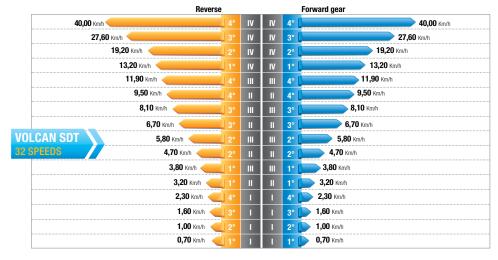
The VOLCAN SDT are provided with OS-Frame transmissions which, with a sole shaft and a sole central joint, control the gearbox and the power take-off and guarantee maximum mechanical output as well as the best manoeuvrability of the tractor. It is a "monolithic" structure in a single cast iron casting. The joint in the middle of the machine lets the front axle oscillate up to 15° with respect to the rear axle (maximum slewing angle), stabilising the machines on steep terrain and assuring the best stability and the constant traction because the four wheels are always sticking on the ground.

#### Gearboxes with the best speed range

The new 32-speed **Sincro** gearboxes of the **VOLCAN SDT** with synchronised reverser and helical gears offer the best performance in driveability and comfort.

The logical speed sequence, without overlapping for all ranges, allows you to always select the right gear ratio for the requested use, allowing an efficient use of the machines: fuel savings, less stress on the mechanical components, less engine fatigue and, above all, better quality of work.

Graph of the speeds in km/h with 340/65R18 \* 420/65R24 tyres for VOLCAN SDT tractors.





# Superior quality clutch

#### **Transmission clutch**

The **LONG-LIFE clutches** designed for the **VOLCAN SDT** series are multiple-discs in oil bath and do not need adjusting and maintenance. Modular and progressive, they are inserted in the transmissions in order to reduce motor overhang and consequently the length of the unit. This technologically advanced solution, especially adopted on conventional, high-powered machinery, was preferred to the more economical and less reliable "dry mono-disc" one used by most of the **VOLCAN SDT** series direct competitors.

## **PLUS**

The clutch also has a **proportional hydraulic control** that perfectly modulates coupling and uncoupling, much more powerful than the traditional hydraulic controls that operate dry mechanical clutches.

Operational comfort is also ensured by the **PRO-ACT System**, a system that allows the drive to operate the clutch in a convenient and efficient manner using a parallelogram-shaped progressive action pedal with adjustable backlash.



#### PTO with maximum power to be transmitted

**The rear PTO is electro-hydraulically controlled,** independent from the gearbox and synchronised with all forward speeds. It can be engaged under load, it has the brake in the released position and a safety mechanism that prevents accidental engagement.

The independent PTO is serial at 540/750 r.p.m. Optional 540/1000 r.p.m.



## **Enhance performance**



## **Superior quality axles**

The decision to employ axles with epicyclic reduction gears on the front side and cascade reduction gears on the rear side of our machines determined by the need to keep the wheel-base of the **SDT** units to a minimum while increasing manoeuvrability, besides increasing the prestige and reliability of the machine.

# Brakes that always rise to the occasion

The efficiency of the braking system, with the **4 latest generation multiple disc wet brakes**, ensure completely safe braking in the **SDT** series tractors.

The brakes are assisted by an **hydrostatic control** acting as braking distributor which intervenes constantly and simultaneously on the 4 wheels when acting on the pedal. Such a pedal has been split in two to intervene on the rear brakes of the tractors simultaneously or independently.

Exclusive to this category of machines is the **independent BRAKE-OFF parking brake** (optional) that is automatically inserted when the engine is off. When the unit is operating, on the other hand, it is controlled with a practical button, electro-hydraulically controlled on the dashboard and equipped with a safety catch.





# Hydraulic system: never so efficient

The hydraulic system of the **VOLCAN SDT** version is a double circuit one, but with independent pumps and dedicated heat exchanger. The hydroguide pump has a flow rate of 31 lt/min, like the one for the attachments. As optional, an oversized pump of 49 lt/min can be also supplied.

Hydraulic operating pressure is 180 bar.

For the **VOLCAN**, in the version without Joy-Stick, there are up to a maximum of 8 rear hydraulic control valves, which allow you to use equipment that requires a large hydraulic flow rate.



#### **Everything in one handful**

For our most demanding customers we designed an **electronically controlled Joy-Stick** specifically for the **VOLCAN SDT** version which allows you to keep the entire hydraulic system under control with a single device.

The **Joy-Stick** is ergonomically positioned on the right side of the operator and can be easily used also on the tractors with Compact cabins.

The **Joy-Stick** controls not only the hydraulic system, powering 5 rear hydraulic control valves and 9 front hydraulic control valves with E-Plug System for an easier connection, but also the lifts, making every manoeuvre involving the machine's hydraulics practical and secure. To get the best performance, the **Joy-Stick** is always supplied with the oversized pump 49 lt/min.

### **Lifting Equipment**

The **VOLCAN SDT** are often used with performance equipment set on the lift. The **robust rear lifts** that are supplied with the machine rely on practical and versatile multipurpose attachments, designed to easily and quickly adapt to all equipment on the market. On demand, they can be also supplied with position and draft control for all those attachments requiring it. The lifting arms are available with: standard couplers, standard quick couplers and L-shaped quick couplers. It is also foreseen a hydraulically controlled upper link and tie rod for right link arm, which allows adjusting the attachments from the driver's position simply acting on the control valves lever.

In addition to the rear lift, it is also available a performing front lift with 4 hydraulic control valves, which is necessary when using combined attachments.



When the **cabs** for the **VOLCAN SDT** were designed, we decided to set our expectations higher than anyone else had ever done.

The cabs, in fact, available in the Standard and Compact versions, were carefully designed in every detail to guarantee interior comfort.

Equipped with fabulous, spacious and ergonomic interiors, they have large windows that optimise the driver's view. The structure is mounted on silent-blocks completely independent from the tractor chassis, to cushion noise and vibrations. Also, the special frame of the Compact cabs allows limiting the height at 169 cm. only and improving the use of the machine under the foliage in the pergola vineyards or under covered scaffolding and nurseries.

For all versions extra special care has been put in a unique control console: ventilation, heating and air conditioning are ensured by special vents on the front of the instrument panel. Air conditioning and heating is ensured by a reliable and efficient system.



## **Driver's Seat**

#### **Reserved for the driver**

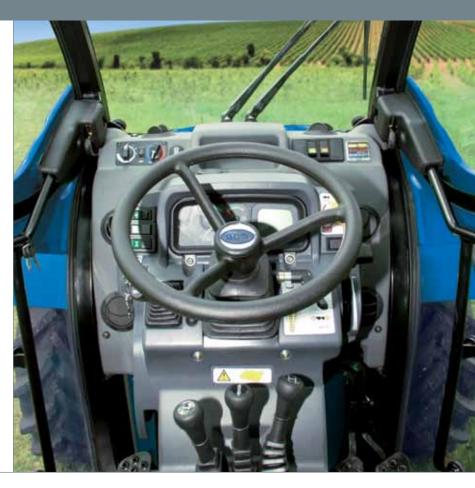
The pleasure in driving a BCS tractor doesn't come only from the performance of the machine but also from the area reserved for the driver.

The **SDT series driving area** was designed to guarantee comfort, ergonomics, functionality and safety in an absolutely original manner.

An **instrument console** with anti-reflective screen gathers all the function in a logical manner in a central display and ensures control over the machinery status.

**Instrumentation** is available in both the analog and digital version: the latter provides for simultaneous reading of the engine rpms, drive speed and PDF rotation speed.

**The steering wheel**, which is also available in an adjustable version according to the operator's physical structure, is assisted by an interactive hydroguide. Its hydraulic system is independent in order to guarantee the best efficiency and safety.





**DUALSTEER®** system

A brand new "inspired guess" which no other machine on the market has got.

The **DUALSTEER** system is a double steering system combining safety and stability of the steering wheel version with the performance in curves and manoeuvrability of the version with central articulation. This solution generates therefore a glamorous steering system with unique features that boost the performance of the machines and make them easy to use on any type of ground, thanks to their manoeuvrability and safety.

All the manufacturers of specialised tractors, who are actually on the market, tend to bring out the manoeuvrability talent of their units and consider them as a priority to other apparently more important features.

**DUALSTEER** version have no comparison, limiting the steering radius to 2,2 meters only. As a consequence of this they are

From this point our view the **VOLCAN SDT** in the essential to move in row cultivations as well as in vegetable cultivations and in nurseries.





# Other good reasons for choosing the SDT series

The **VOLCAN SDT** series tractors are specialised like few others. Built for those who want only the best. Its large range of options and original accessories makes it even more unique

- Third point range
- Weight range
- Prefilter range
- Seat range

## **Compatible with every need**

The width and height, the degree of ground compaction, the more or less aggressive "GRIP" are only some of the aspects that give the wheels on specialised tractors a fundamentally important role.

We have tested and reserved for the **SDT series** tractors, the best alternatives available on the market so that our clients can always find the right solution for their every need.

## **Towing in safety**

#### The high towing capacity of the SDT

**tractors** is guaranteed by towing hitches approved according to the current rules in various countries. The towing hitches can also be supported by the frames that quickly adjust their height in order to optimise the use of the various towed equipment.

#### Third point range

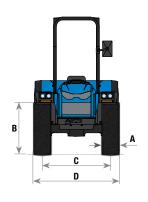


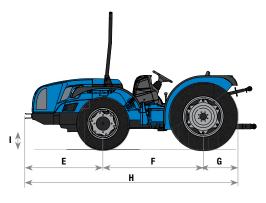
Standard couplers

Standard quick couplers

L-shaped quick couplers

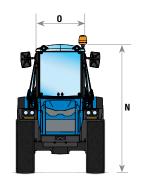
## Technical Features \_VOLCAN SDT RS

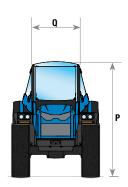




	TYRES	<b>A</b> Tyre width mm.	<b>B</b> Tyre height mm.	<b>C</b> Wheel track min/max mm.	<b>D</b> Width min/max mm.
Front	260/70R16	258	770	1100/1420	1358/1678
Rear	300/70R20	286	942	1054/1394	1340/1680
Front	260/70R16	258	770	1100/1420	1358/1678
Rear	340/65R20	343	958	1054/1374	1397/1717
Front	280/70R18	265	849	1201/1551	1466/1816
Rear	320/70R24	316	1099	1132/1518	1448/1834
Front	340/65R18	343	899	1254/1468	1597/1811
Rear	420/65R24	415	1156	1190/1450	1595/1865
Front	300/65R18	295	849	1170/1466	1465/1761
	380/70R20	370	1088	1170/1374	1540/1754







#### **VOLCAN SDT RS** DIMENSIONS (mm):

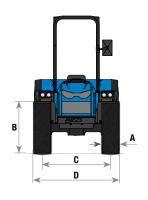
	E	F	G	Н	 Min-Max	<b>L</b> Min-Max	M	<b>N</b> Min-Max	0	<b>P</b> Min-Max	Q
VOLCAN 750 SDT RS	1148	1607	471	3226	270/300	2105/2196	740	1903/1994	770	1690/1824	760
VOLCAN 850 SDT RS	1000	1607	471	2220	270/200	0105/0106	740	1002/1004	770	1000/1004	760
VOLCAN 950 SDT RS	1260	1607	4/1	3338	270/300	2105/2196	740	1903/1994	770	1690/1824	760

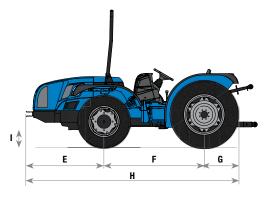
#### STEERING RADIUS **VOLCAN SDT RS** WITH THE FORESEEN WHEEL:

TYPE OF TYRE	260/70R16	260/70R16	280/70R18	340/65R18	300/65R18
	300/70R20	340/65R20	320/70R24	420/65R24	380/70R20
mm	3540	3540	3860	4460	3600

TECHNICAL FEATURES	VOLCAN 750 SDT RS	VOLCAN 850 SDT RS	VOLCAN 950 SDT RS				
CHASSIS	Swinging integral chassis <b>OS-FRAME</b> with steering wheels						
DRIVE	Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control						
ENGINE							
Manufacturer	2750 150	VM					
Model	D753 IE3	D754 TE3	D754 IE3				
Number of cylinders	3	4	4				
Displacement cm3	2230	2970 	2970				
Suction Emission level	Turbo Intercooler	Tier 3	Turbo Intercooler				
Power KW/HP	51,5 / 70	58 / 79	67 / 91				
Nominal speed (rpm)	2300	2300	2300				
Maximum tractor torque (Nm/rpm)	265 / 1200	274 / 1800	420 / 1000				
Cooling	2007 1200	Water	1207 1000				
Tank capacity (lt.)	70 lt	(version with roll-bar) - 55 lt (version with	cab)				
TRANSMISSION		ox: 32 speeds (16 FWD and 16 REV) with s					
Main clutch		discs in oil bath with hydraulic control PRO					
DIFFERENTIAL	•	k: front and rear simultaneously or only rear					
AXLES	Front with epicycl	oidal reduction gear and rear with reductio	n gear in cascade				
POWER TAKE-OFF		onized with forward speed. Engageable unde					
PTO clutch		With multiple discs in oil bath					
Engagement control		Electro-hydraulic					
Independent PTO rotation speed (rpm)		Standard: 540/750 - Optional: 540/1000					
HYDRAULIC SYSTEM	Double of	circuit with independent pumps and heat ex	changer				
Flow rate to hydraulic pump which controls the hydroguide and electro-hydraulic control (I/min.)		31					
Flow rate to the hoist and the distributors (I/min.)		31 (optional 49, standard with Joystick)					
Maximum hydraulic pressure (bar)		180					
DISTRIBUTORS	Me	Mechanical control to max 8 hydraulic couplers					
Rear (standard)		2 double acting					
Rear (optional)		double acting or 1 double acting and 1 do					
Joystick (optional)		ng of: 1 single acting with adjustable flow rate, 4 dol rractor. 1 single acting with free return, 2 double acti					
ELECTRIC SYSTEM							
Battery (Ah)		100					
Alternator (A)		55					
REAR LIFT	-	two external rams - Optional: draft and po					
Three-point hitches		2, L-shaped lift arms, lift rods adjustable in	n length and hooks adjustable in width				
Three-point tie bar	Standard: with manual adjus	tment - Optional: hydraulically controlled u	pper link and tie rod link arm				
Lifting capacity at the end of the arms kg		2700					
FRONT LIFT (optional)	By two externa	I rams with front guard and 2 double acting	g control valves				
Three-point hitches		Rigid with quick couplings cat. 1					
Lifting capacity kg		800					
DRIVING UNIT		With suspended platform on "Silent-block"	and a charge				
Driving platform SEATS with safety belts	<u> </u>	d brake and clutch pedals mounted on cont ng seat, adjustable according to the driver's weigh					
SERVICE BRAKES	•	Iltidisc brakes, acting on the wheels with h					
Parking brake	<u> </u>	, in oil bath - Optional: automatic and indep					
STEERING		static steering by two rams, acting on the fi					
SAFETY	with right of	states steering by two rame, acting on the h	OIL HIDOID				
Roll-bar frame (standard)		Front, homologated					
Cabin (optional)		afety cell integrated in the structure and "c ons: Standard (minium height from ground o					
		m height from ground cm. 169 with 16/20"					
CONSOLE							
Analogue type (standard)	•	ometer, water thermometer, control warning lig					
Digital type (optional)  TYRES	With simultaneous re	ading of rpm, forward speed and rotation s	peed of power takeoff				
Standard		260/70R16*300/70R20					
	260/70R16*340/65R20 - 300	0/65R18*380/70R20 - 280/70R18*320/70	R24 - 340/65R18*420/65R24				
Optional							
•		Rear cat C and front tow hook					
TOW HOOKS		Rear cat. C and front tow hook					
TOW HOOKS Standard	Rear rotating or rear adjustable in height (S	Rear cat. C and front tow hook	CUNA rear adjustable in height (Slider tvn				
TOW HOOKS Standard Optional	Rear rotating or rear adjustable in height (S		CUNA rear adjustable in height (Slider typ				
TOW HOOKS Standard Optional	Rear rotating or rear adjustable in height (S		CUNA rear adjustable in height (Slider typ 2400				
TOW HOOKS Standard Optional WEIGHT OPERATIONAL		lider type) tow hooks, both EC approved or 0					
TOW HOOKS Standard Optional WEIGHT OPERATIONAL With chassis (kg)	2350	slider type) tow hooks, both EC approved or 0	2400				

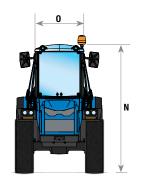
## Technical Features \_VOLCAN SDT DS

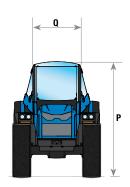




	TYRES	<b>A</b> Tyre width mm.	<b>B</b> Tyre height mm.	<b>C</b> Wheel track min/max mm.	<b>D</b> Width min/max mm.
Front	260/70R16	258	770	1100/1420	1358/1678
Rear	300/70R20	286	942	1054/1394	1340/1680
Front	260/70R16	258	770	1100/1420	1358/1678
Rear	340/65R20	343	958	1054/1374	1397/1717
Front	280/70R18	265	849	1201/1551	1466/1816
Rear	320/70R24	316	1099	1132/1518	1448/1834
Front	340/65R18	343	899	1254/1468	1597/1811
Rear	420/65R24	415	1156	1190/1450	1595/1865
Front	300/65R18	295	849	1170/1466	1465/1761
	380/70R20	370	1088	1170/1374	1540/1754







#### **VOLCAN SDT DS** DIMENSIONS (mm):

	E	F	G	Н	 Min-Max	<b>L</b> Min-Max	M	<b>N</b> Min-Max	0	<b>P</b> Min-Max	Q
VOLCAN 750 SDT DS	1148	1607	471	3226	270/300	2105/2196	740	1903/1994	770	1690/1824	760
VOLCAN 850 SDT DS	1000	1607	471	2220	070/200	0105/0106	740	1002/1004	770	1600/1004	700
VOLCAN 950 SDT DS	1260	1607	4/1	3338	270/300	2105/2196	740	1903/1994	770	1690/1824	760

#### STEERING RADIUS **VOLCAN SDT DS** WITH THE FORESEEN WHEEL:

TYPE OF TYRE	260/70R16	260/70R16	280/70R18	340/65R18	300/65R18
	300/70R20	340/65R20	320/70R24	420/65R24	380/70R20
mm	2585	2585	2650	2990	2650

TECHNICAL FEATURES	VOLCAN 750 SDT DS	VOLCAN 850 SDT DS	VOLCAN 950 SDT DS				
CHASSIS		assis <b>OS-FRAME</b> with central articulation					
DRIVE	Four-wheel drive. F	ront-wheel drive disengagement with electr	o-hydraulic control				
ENGINE		\/A4					
Manufacturer	D750 I50	VM	D75 4 IFO				
Model	D753 IE3	D754 TE3 4	D754 IE3 4				
Number of cylinders	2230	2970	2970				
Displacement cm3 Suction	Turbo Intercooler	Z970 Turbo	Turbo Intercooler				
Emission level	Turbo intercoolei	Tier 3	Turbo intercoolei				
Power KW/HP	51,5 / 70	58 / 79	67 / 91				
Nominal speed (rpm)	2300	· · · · · · · · · · · · · · · · · · ·					
Maximum tractor torque (Nm/rpm)		265 / 1200 274 / 1800 42					
Cooling	2007.1200	Water	.557, 1555				
Tank capacity (It.)	70 lt	(version with roll-bar) - 55 lt (version with	cab)				
TRANSMISSION	Synchronized gearbo	x: 32 speeds (16 FWD and 16 REV) with sy	nchronized reverser				
Main clutch	With multiple	discs in oil bath with hydraulic control PRO	ACT SYSTEM				
DIFFERENTIAL	Front and rear. Differential loc	k: front and rear simultaneously or only rear	with electro-hydraulic control				
AXLES	Front with epicycle	oidal reduction gear and rear with reduction	n gear in cascade				
POWER TAKE-OFF	Rear, independent from gear and synchro	onized with forward speed. Engageable unde	er load with brake in disengaged position				
PTO clutch		With multiple discs in oil bath					
Engagement control		Electro-hydraulic					
ndependent PTO rotation speed (rpm)		Standard: 540/750 - Optional: 540/1000					
HYDRAULIC SYSTEM	Double o	ircuit with independent pumps and heat ex	changer				
Flow rate to hydraulic pump which controls the hydroguide and electro-hydraulic control (I/min.)		31					
Flow rate to the hoist and the distributors (I/min.)		31 (optional 49, standard with Joystick)					
Maximum hydraulic pressure (bar)		180					
DISTRIBUTORS	Me	echanical control to max 8 hydraulic couple	rs				
Rear (standard)		2 double acting					
Rear (optional)		double acting or 1 double acting and 1 double					
Joystick (optional)		ng of: 1 single acting with adjustable flow rate, 4 dour ractor. 1 single acting with free return, 2 double acti					
ELECTRIC SYSTEM							
Battery (Ah)		100					
Alternator (A)		55					
REAR LIFT	Standard: by	two external rams - Optional: draft and pos	sition control				
Three-point hitches	Standard: standard couplers cat. 1 and 2 a in length or quick couplings cat. 1 and	and adjustable tie rods. Optional: quick cou 2, L-shaped lift arms, lift rods adjustable ir					
Three-point tie bar		tment - Optional: hydraulically controlled up					
Lifting capacity at the end of the arms kg		2700					
FRONT LIFT (optional)	By two externa	I rams with front guard and 2 double acting	control valves				
Three-point hitches		Rigid with quick couplings cat. 1					
Lifting capacity kg		800					
DRIVING UNIT		With suspended platform on "Silent-block"					
Driving platform	Suspended	I brake and clutch pedals mounted on conti	rol column				
SEATS with safety belts	•	ng seat, adjustable according to the driver's weight					
SERVICE BRAKES		ultidisc brakes, acting on the wheels with hy					
Parking brake	· · · · · · · · · · · · · · · · · · ·	in oil bath - Optional: automatic and indep					
STEERING	With hydrostatic steering by tw	o rams, acting on the front steering wheels	and on the central articulation				
SAFETY							
Roll-bar frame (standard)		Front, homologated afety cell integrated in the structure and "ca					
Cabin (optional)		ns: Standard (minium height from ground c n height from ground cm. 169 with 16/20"					
CONSOLE							
Analogue type (standard)	•	ometer, water thermometer, control warning lig					
Digital type (optional)  TYRES	With simultaneous re-	ading of rpm, forward speed and rotation s	peed of power takeoff				
Standard		260/70R16*300/70R20					
	260/70R16*340/65R20 - 300	0/65R18*380/70R20 - 280/70R18*320/70F	R24 - 340/65R18*420/65R24				
Optional	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
•	Rear cat. C and front tow hook						
TOW HOOKS		Rear cat. C and front tow hook  Rear rotating or rear adjustable in height (Slider type) tow hooks, both EC approved or CUNA rear adjustable in height (Slider type)					
TOW HOOKS Standard	Rear rotating or rear adjustable in height (S		CUNA rear adjustable in height (Slider tv				
TOW HOOKS Standard Optional	Rear rotating or rear adjustable in height (S		CUNA rear adjustable in height (Slider ty				
TOW HOOKS Standard Optional Weight Operational	Rear rotating or rear adjustable in height (S		CUNA rear adjustable in height (Slider ty 2400				
TOW HOOKS Standard Optional WEIGHT OPERATIONAL With chassis (kg)		lider type) tow hooks, both EC approved or C					
Optional TOW HOOKS Standard Optional WEIGHT OPERATIONAL With chassis (kg) With Standard cabin (kg) With Compact cabin (kg)	2350	lider type) tow hooks, both EC approved or C	2400				



The design criteria have the support of very modern programs that work in 3D



All the components of our machines are tested before going into production. This guarantees the quality and reliability of our products.



Designing for comfort is one of the essential components of our technical staff's Mission.



Tested and guaranteed original spare parts E-parts is the on-line support for fast and easy service.



Efficient and valid assistance service with the support of friendly and competent technical staff: E-service is the on-line tool supporting the service.



An extensive and efficient sales force guaranteeing service and assistance.



BCS recommends to use the original **PowerLube** lubricants.

Come and join us at your local BCS dealer or visit us at **www.bcsagri.it** to discover the innovations that waiting for you.

