

MASCHIO

**DIABLO
ARTIGLIO
ATTILA
PINOCCHIO**



SUBSOILER RANGE

Three different jobs in one pass

SUBSOILERS

3 DIFFERENT JOBS IN 1 PASS

- **Compaction layer shattering**

Maschio subsoilers break up compaction layers, promote aeration, limit runoff and improve water infiltration which helps the soil retain moisture. The shank inclination has been designed to allow for better penetration, even in the toughest soil, while the high frame clearance and the well-spaced shanks guarantee perfect residue flow.

- **Residue sizing and incorporation**

The rear double spike or disc rollers size residue into planter-manageable pieces, dislodge root balls and get the straw in contact with the soil for faster decomposition.

- **Seed bed refinement**

Maschio subsoilers leave a smooth, level surface for one follow-up pass in the spring. The double counter-rotating spike or disc roller systems accomplish final clod sizing, soil firming and levelling. They are excellent tools for continuous corn-on-corn cropping systems.



MASCHIO - SUBSOILERS

A COMPLETE RANGE OF SUBSOILERS

The Maschio subsoilers let you finish three different jobs in one pass, decreasing your fuel costs: soil shattering (to a depth of 70 cm), mulching and levelling. The heavy duty frame features a simple, robust design with few parts exposed to wear and grease points to drastically reduce maintenance time and cost. The large range of working widths available (from 1.30 to 7.00 m) and the high working speed (6-10 kmh) ensure high productivity; which means a fast return on your investment!



If your goal is to till up to 55 cm, incorporate residue on top soil and leave the soil level enough for a single pass tool in the spring, DIABLO is what you need!

Denisov Mikhail, Volzhskiy RU



“The rear roller mixes top soil well with residue. Even in wet conditions, the machine works really well.”

Herrn Cornell, Frankfurt DE

SUBSOILERS

HEAVY DUTY SHANKS

Progressive inclination

30, 35 or 40 mm thick shanks are characterised by an increasing inclination from the tip to the top (from 20° to 60°). It improves soil penetration reducing HP requirements.

Clod breaking blade

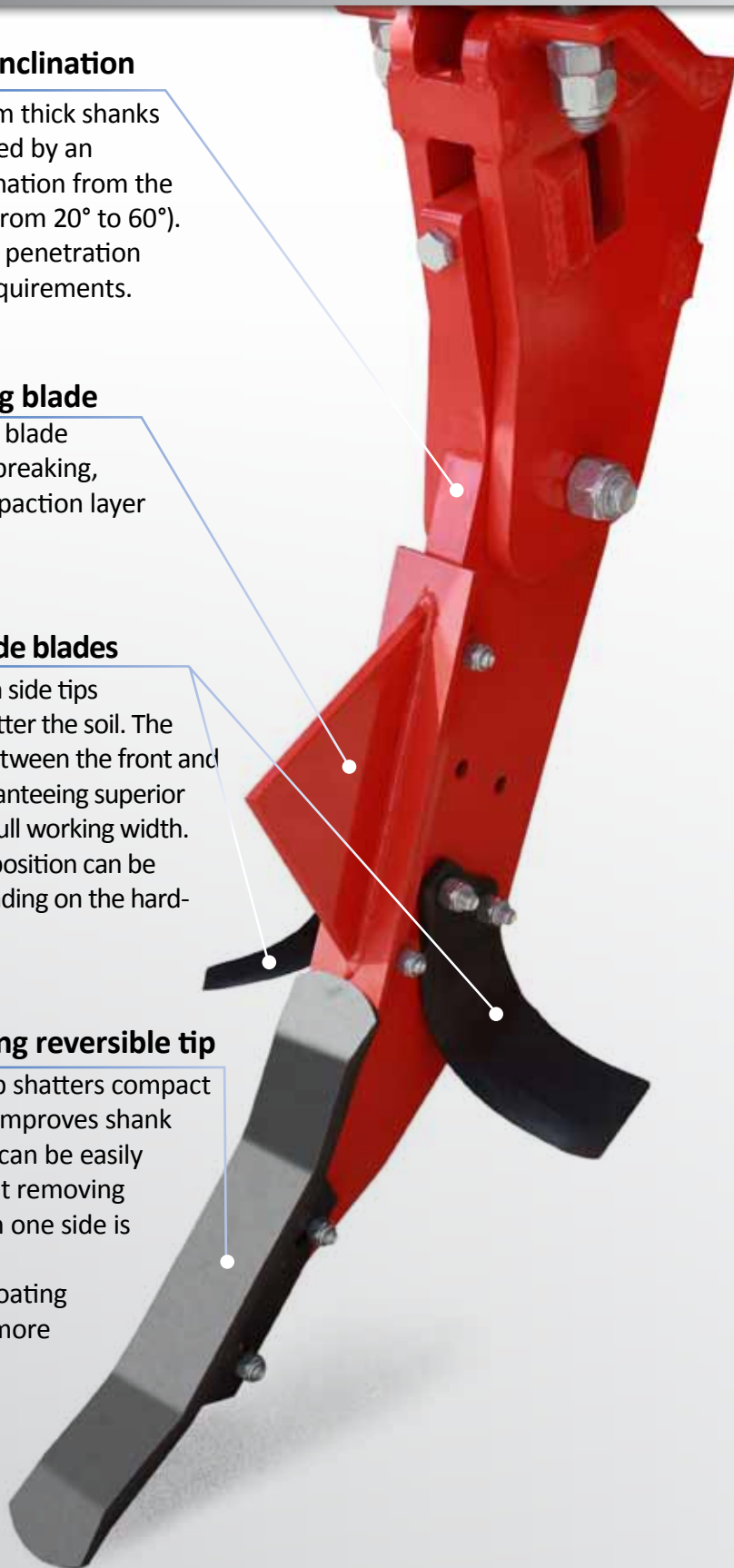
Central bolt-on blade improves clod breaking, improving compaction layer shattering.

Adjustable side blades

140 mm bolt-on side tips horizontally shatter the soil. The tines overlap between the front and rear gangs guaranteeing superior tilling over the full working width. The side blade position can be adjusted, depending on the hard-pan depth.

Quick coupling reversible tip

75 mm front tip shatters compact soil layers and improves shank penetration. It can be easily switched by just removing two bolts when one side is wore out. The tungsten coating makes it even more durable.





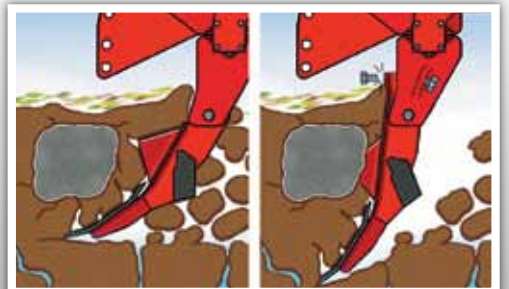
Hydro-pneumatic system

The auto-reset circuit with double nitrogen accumulator and safety valve prevents frame damage and reduces downtime resulting from having to replace the shear bolt. Once the obstacle is overcome, the system brings the shank back to its working position. The nitrogen accumulator capacities are 7.5 l for the hydro-pneumatic models with 5 shanks and 17 l for the versions with 7 and 9 shanks.



Shear bolt

All subsoilers have a passive safety device which flips the shank back if the maximum admissible load is exceeded. The shear bolts in strength class 8.8 or 10.9 (for hydro-pneumatic models only) are able to resist loads up to 3500 kg to protect the Maschio subsoiler shanks.



SUBSOILERS

INTENSE MIX AND LEVELLING

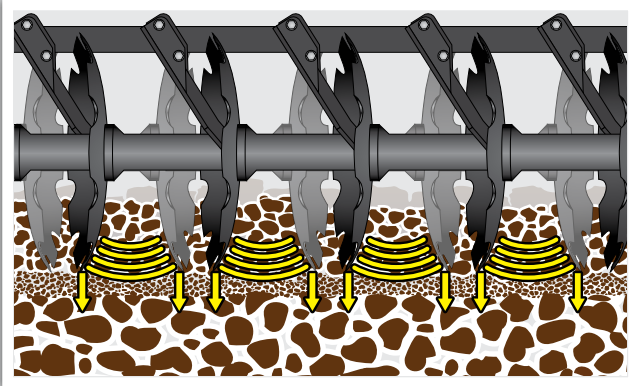


Two gangs of notched discs with \varnothing of 610 mm and thickness of 8 mm ensure optimal soil straw mixing even on very high density residue. The perfect overlap between front and rear gangs guarantees an extremely consistent tillage across the entire working width.



SUB-CONSOLIDATION

Rear disc gang down-pressure is equally distributed over the entire working width at 5-8 cm depth. This sub-compaction effect keeps ground moisture at the best for optimal rooting and increases soil bearing capacity; this means that you can seed with the bigger planters even on wet soil. Moreover, the top soil is well refined allowing a perfect seed emergence.



SUBSOILERS

DIABLO



Heavy duty frame

The DIABLO frame is extremely sturdy! The folding version is equipped with 6 cylinders, 3 per side, that ensure a constant working depth preventing frame oscillations, torsions and then damage. The ground clearance is 890 mm while the gangs are spaced at 1250 mm.



Great manoeuvrability and easy transport

Cat. 4 draw bar with \varnothing of 51 mm towing eye (also available cat. 5 and 3 with towing eye \varnothing of 51 and 75 mm, respectively) and large transport tyres (550/60-22.5) ensure an excellent manoeuvrability during transport on roads and when turning at field heads.



Working depth adjustment

Working depth is set hydraulically by the rear disc rollers and mechanically by the double front wheels (10.0/75-15.3).



No-stop tilling with no maintenance

35 mm thick shanks with tungsten coating tips come as standard on DIABLO. The shearing bolt on each shank with maximum load of 2250 kg prevents any frame damage.





SUBSOILERS

QUICK MATCHING

DIABLO is equipped with a heavy duty 2" (Cat. 4) towing eye drawbar. Drawbar inclination can be comfortably adjusted from the tractor seat by using the hydraulic cylinder to ensure maximum stability in transport and to set the shank gangs down-pressure on the run.





SUBSOILERS

DOUBLE SPIKE ROLLER



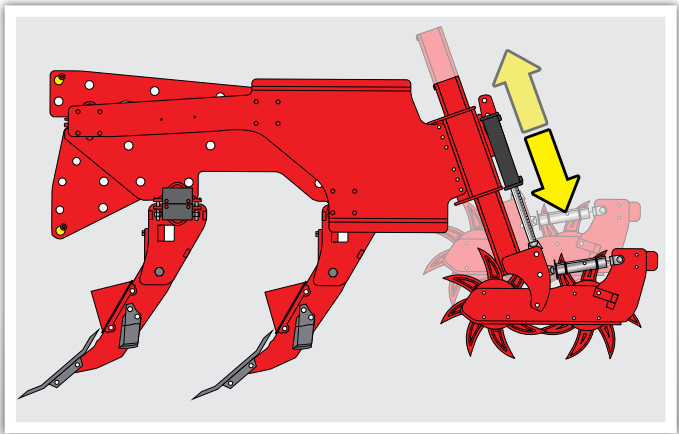
The subsoiler models PINOCCHIO, ATTLA, ARTIGLIO and ARTIGLIO MAGNUM are equipped with a double counter-rotating spike roller having \varnothing of 140 or 220 mm and a variable number of blades from 16 (for 1.30 m versions) to 96 (for 5 m versions). The high number of spikes and the large diameter improve residue sizing and incorporation, clod shattering and soil levelling.





Easy adjustments

The double roller sets the working depth, using two sturdy cylinders. They can be easily adjusted from the cab. In the presence of a high quantity of residue, it is possible to change the rear roller inclination by two mechanical jacks, avoiding clogging.



SUBSOILERS

ARTIGLIO MAGNUM

The ARTIGLIO MAGNUM requires high-power tractors (from 190 to 400 HP) and it can reach a working depth of 70 cm. The shanks (from 5 to 9 according to the working width) are 40 mm thick and they are equipped with a shear bolt safety system (5 spare bolts come as standard). The welded frame has an ultra-high soil clearance (1150 mm) and the two gangs are spaced at 900 mm. The exclusive “wave” design of the frame flanks improves soil and residue flows preventing clogging even at high working speeds.



ARTIGLIO

The ARTIGLIO and ARTIGLIO HYDRO require from 150 to 390 HP, according to the working width (from 2.5 to 5 m) and the number of shanks (from 5 to 11). The 35 mm thick shanks are equipped with a shear bolt safety system (5 spare bolts come as standard) or with a hydro-pneumatic auto-reset circuit with double nitrogen accumulator and safety valve (only on HYDRO versions). These models are characterised by a completely welded frame with 900 mm for both soil clearance and gang spacing. The working depth can be hydraulically adjusted from the cab up to 55 cm.



SUBSOILERS

ATTILA

The ATTILA and ATTILA HYDRO models have been developed for medium HP tractors (from 110 to 240 HP). They are characterised by a maximum working depth of 45 cm , hydraulically adjustable from the cab. Different working widths are available (from 2.5 to 5 m) with a variable number of shanks from 5 to 9. The 30 mm thick shanks are equipped with a shear bolt safety system or with a hydro-pneumatic auto-reset circuit with double nitrogen accumulator and safety valves (only on HYDRO versions). The sturdy bolt-on frame has a ground clearance of 790 mm while the front and the rear gangs are spaced at 850 mm.



PINOCCHIO



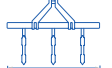



The PINOCCHIO model is designed for low or medium power tractors (from 50 to 160 HP). It is characterised by a maximum working depth of 45 cm. PINOCCHIO is available in different widths (from 1.3 to 3 m) and number of shanks (from 3 to 7). The 3 cm thick shanks are equipped with a shear bolt safety system and the double rear roller can be manually adjusted using a pin system. The bolt-on frame has a ground clearance of 790 mm while the front and the rear gangs are spaced at 640 mm.








SUBSOILERS

TECHNICAL SPECIFICATIONS



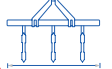



DIABLO

	 KW	 HP	 m	 N. TINES	 N. DISCS	 cm ⁽¹⁾
500/11	294 - 367	400 - 500	5.00	11	2 x 23	45
600/13	368 - 441	450 - 550	6.00	13	2 x 27	45
700/15	368 - 441	500 - 600	7.00	15	2 x 31	45

⁽¹⁾ Working width

					
CAT.	CAT. 3	CAT. 4	CAT. 5	K 80	K 110
PIVOT / BALL Ø	38	50	70	80	110
EYE / BALL Ø	50	51	71	80	110

ARTIGLIO MAGNUM

	 KW	 HP	 m	 N. TINES	 cm ⁽¹⁾	 Kg
250/5	139 - 206	190 - 280	2.50	5	70	2200
300/5	155 - 228	210 - 310	3.00	5	70	2400
300/7	176 - 250	240 - 340	3.00	7	70	2700
400/7	192 - 265	260 - 360	4.00	7	70	3150
400/9	228 - 295	310 - 400	4.00	9	70	3400

⁽¹⁾ Working width

ARTIGLIO	KW	HP	m	N. TINES	cm ⁽¹⁾	Kg
	250/5	110 - 147	150 - 220	2.50	5	55
300/5	125 - 162	170 - 220	3.00	5	55	2100
300/7	140 - 184	190 - 250	3.00	7	55	2250
400/7	155 - 199	210 - 270	4.00	7	55	2750
400/9	161 - 242	220 - 330	4.00	9	55	2950
500/11	184 - 287	250 - 390	5.00	11	55	3350

ARTIGLIO HYDRO

250/5	110 - 184	150 - 250	2.50	5	55	3000
300/7	132 - 206	180 - 280	3.00	7	55	3550
400/9	184 - 257	250 - 350	4.00	9	55	4700

⁽¹⁾ Working width

ATTILA

ATTILA	KW	HP	m	N. TINES	cm ⁽¹⁾	Kg
	250/5	81 - 110	110 - 150	2.50	5	45
300/5	88 - 125	120 - 170	3.00	5	45	1950
300/7	110 - 147	150 - 200	3.00	7	45	2190

ATTILA HYDRO

250/5	81 - 110	110 - 150	2.50	5	45	2750
300/7	110 - 147	150 - 200	3.00	7	45	3250
400/9	140 - 176	190 - 240	4.00	9	45	4290

⁽¹⁾ Working width

PINOCCHIO

PINOCCHIO	KW	HP	m	N. TINES	cm ⁽¹⁾	Kg
	130/3	37 - 81	50 - 110	1.30	3	45
170/5	51 - 96	70 - 130	1.70	5	45	1050
200/5	51 - 96	70 - 130	2.00	5	45	1150
250/5	51 - 96	70 - 130	2.50	5	45	1200
250/7	74 - 118	100 - 160	2.50	7	45	1350
300/7	74 - 118	100 - 160	3.00	7	45	1450

⁽¹⁾ Working width

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