

PL



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SIMEX
• patented •

SELF-LEVELLING ROAD PLANERS

category



SSL High
Flow



SSL High
Power



SSL Standard
Flow

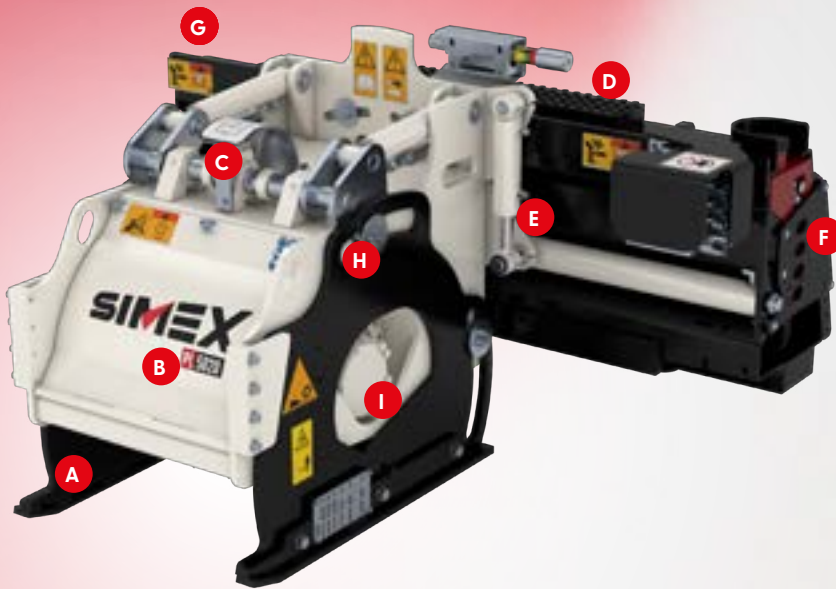


Front Loader

models

PL 25.10 | PL 35.15 | PL 40.15 | PL 45.20 | PL 45.20HP
PL 50.20 | PL 60.20 | PL 60.20HP | PL 75.20
PL 1000 | PL 1200 | PL 1500 | PL 2000

The Simex PL self-levelling road planers are designed to **remove the entire layer of asphalt or cement** in preparation for trenching, or for **scarifying deteriorated sections** for later resurfacing. Created to mill pre-set sections on hard and compact surfaces, they allow the possibility to reuse milled material for backfilling trenches.



- A THE MILLED MATERIAL REMAINS CONTAINED WITHIN THE WORK AREA:** there is no accidental spillage of material thanks to the slides fitting perfectly against the work surface.
- B** Drums in different widths and teeth layout for asphalt or concrete.
- C INDEPENDENT DEPTH ADJUSTMENT ON THE RIGHT OR LEFT.** Mechanical or hydraulic adjustment (optional). Right and left depth indicator.
- D PERFORMER**
Performer (Simex patented): allows the operator to optimize the equipment's performance according to the forward speed of the construction machine.
- E FLOATING TRANSVERSE TILT WITH DAMPER**
(Simex patented), alternatively, hydraulic adjustment (optional) with possibility of floating movement.
- F SPRAY SYSTEM WITH TANK BUILT INTO FRAME**
(Simex patented) Includes electro-pump, filter and sprayers (tank also available for positioning on prime mover roof). Controls dust produced during milling operation.
- G HYDRAULIC SIDE SHIFT**
(mechanical for PL 25.10, PL 35.15 and PL 40.15). Used in central or lateral position, to the right side, for milling flush to the wall.
- H SELF-LEVELLING SYSTEM: CONSTANT PLANING DEPTH, ALWAYS**
(Simex patented).
Self-levelling to the work surface ensures constant milling depth in any condition, regardless of ground contour or the position of the attachment with respect to the prime mover. The planer lateral slides automatically align to the milling surface on which they rest to provide maximum stability.
- I HYDRAULIC MOTOR IN DIRECT DRIVE WITH THE DRUM**



AVAILABLE DRUMS:



STANDARD DRUMS



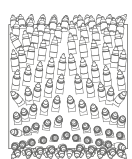
SPECIAL
For widths and/or depths other than standard.



CEMENT DRUMS
Reduced pitch compared with standard.



CUTTING DISK



MULTI-TEETH DRUMS
For fine surface milling.



DOUBLE-WIDTH DRUMS
Drums with removable shells (PL 1000 only).

AVAILABLE TEETH:



TEETH FOR ASPHALT



TEETH FOR CEMENT



TEETH FOR MULTI-TEETH DRUMS

SELF-LEVELLING SYSTEM

Self-levelling to the work surface ensures constant milling depth in any condition, regardless of ground contour or the position of the attachment with respect to the prime mover. **learn more on page 78-79.**



FLOATING TRANSVERSE TILT

The floating transverse tilt ensures the drum of the planer is always aligned to the ground, even when prime mover is not parallel to the road surface.



INDEPENDENT DEPTH ADJUSTMENT

The slides move independently of each other and precisely follow the surface to the right or left. The independent depth adjustment on RH and LH sides combined with the self-levelling system achieves perfectly flat surfaces with side-by-side passes.



SIDE SHIFT FOR MILLING FLUSH TO WALL

Thanks to the hydraulic side shift, it is possible to work in both central and lateral position, to the right side for milling flush to the wall.



BUILT-IN WATER TANK

The dust suppression system consists of electro-pump, filter, sprayers and water tank built into the side shift (Simex patented). Controls dust produced during milling operation.



FINE SURFACE MILLING

Multi-teeth drum for surface milling, with millimetric precision thanks to the self-levelling system that maintains constant working depth. Ideal for removal of road surface markings, for creating rumble strips or surface roughness.



PL SCARIFYING MACHINES

The Simex PL range of road planers offers 4 models with oversized drums, specially made for scarification of the running surface of the road: PL 1000, 1200, 1500, 2000, with respective widths: 100, 120, 150 and 200 cm, for working depths of up to 130 mm.



Like other road planers in the range, the PL scarifying machines benefit from Simex-patented solutions, such as: self-levelling system (for always-constant milling depth); independent depth adjustment on the right or left; floating transverse tilt; and the Performer device, which allows the operator to optimize the equipment's performance according to the forward speed of the construction machine.





PATENTED SELF-LEVELLING SYSTEM: CONSTANT DEPTH IN ANY CONDITION

The Simex self-levelling system allows maintaining always-constant planing depth in any condition, regardless of ground contour or the position of the attachment with respect to the prime mover. The lateral slides automatically align to the milling surface on which they rest to ensure maximum stability.

The slides move independently of each other and precisely follow the surface to the right or left. The independent depth adjustment on RH and LH sides combined with the self-levelling system achieves perfectly flat surfaces with side-by-side passes.

OPTIMIZED MILLING WITH PERFORMER

Mounted in an ergonomic position, easy to view from the operator cabin, the patented Performer device optimizes the attachment performance according to the forward speed of the construction machine.

- ➔ increases daily productivity
- ➔ significantly reduces machine downtime
- ➔ makes work easier for the operator

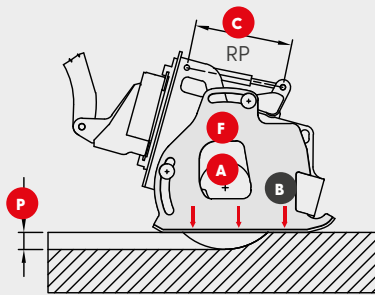
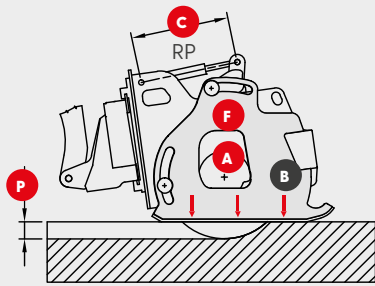


PERFORMER
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The RP depth adjuster (mechanical or hydraulic) moves the pivot up and down (F) to set the working depth (P). If the planer is not horizontal to the ground, the side panel (B) rotates forward or back with respect to the virtual axis (A).

The lateral slides always rest on the ground and the working depth (P) is fixed and constant during advancement. The working depth (P) can be varied only by changing the travel (C) of the depth adjuster RP.



- A** virtual axis
- B** side panel
- C** rp depth adjuster travel
- F** pivot
- P** working depth



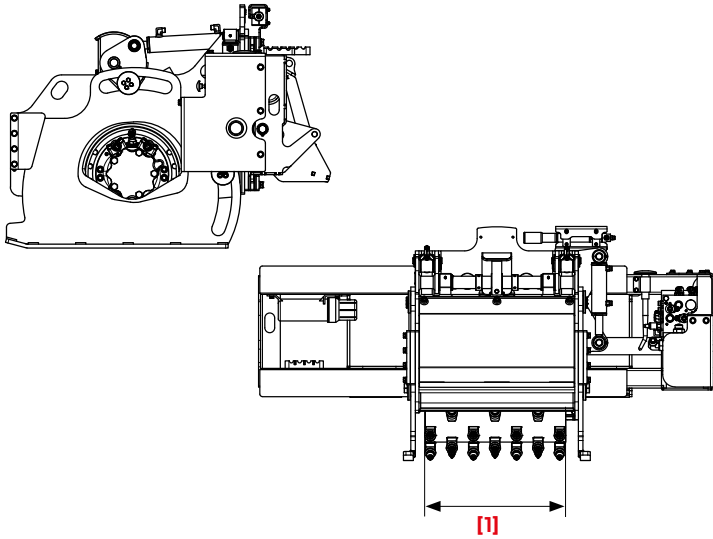
SELF-LEVELLING SYSTEM AND INDEPENDENT DEPTH ADJUSTMENT ON RH AND LH SIDES: BENEFITS

- ➔ always-constant planing depth
- ➔ perfect surfaces with side-by-side passes
- ➔ makes work easier for the operator
- ➔ no accidental launch of material



SELF-LEVELLING SYSTEM
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STANDARD FLOW PLANERS

HIGH FLOW PLANERS

HIGH POWER PLANERS

TECHNICAL DATA		PL 25.10.	PL 35.15	PL 40.15	PL 45.20	PL 45.20 HP	PL 50.20	PL 60.20
STANDARD DRUM								
Width [1]	mm	250	350	400	450	450	500	600
	inch	10	14	16	18	18	20	24
Depth	mm	0 - 70	0 - 110	0 - 150	0 - 150	0 - 170	0 - 170	0 - 170
	inch	0 - 2.7	0 - 4.3	0 - 5.9	0 - 5.9	0 - 6.7	0 - 6.7	0 - 6.7
SPECIAL DRUMS								
Maximum depth with reduced width	mm	130	150	170	200	230	230	230
	inch	5	6	7	8	9	9	9
Depth adjustment	independent right and left, mechanical - hydraulic *							
Side shift		mech.	mech./hyd.*	mech./hyd.*	hydraulic	hydraulic		
Transverse tilt		-	autom.*	autom.*	autom./hyd.*	automatic/hydraulic*		
Tilt		-	16°	16°	16°	16°	16°	16°
Weight standard version (*)	kg	350	590	660	750	860	900	950
	lbs	770	1300	1450	1650	1900	2000	2100
Weight version with integrated spray system (*)	kg	-	750	820	910	1020	1060	1100
	lbs	-	1650	1800	2000	2150	2330	2440
Required oil flow	l/min	30 - 60	45 - 80	65 - 115	75 - 115	100 - 150	100 - 150	100 - 150
	gpm	8 - 16	12 - 21	17 - 30	20 - 30	27 - 40	27 - 40	27 - 40
Maximum oil pressure	bar	250	250	250	310	310	310	310
	psi	3625	3625	3625	4500	4500	4500	4500
Dust control spray system	kit for skid steer loader roof with electro-pump or built into side shift with electro-pump							

* The installer is responsible for ensuring that the equipment meets the prime mover's specifications and weight requirement. * Upon request (optional). Simex does not accept responsibility or liability for the information provided. Technical modifications may vary without prior notice.





HIGH POWER AND HIGH FLOW PLANERS

SCARIFICATION

TECHNICAL DATA		PL 60.20 HP	PL 75.20	PL 1000	PL 1200	PL 1500	PL 2000
STANDARD DRUM							
Width [1]	mm	600	750	1000	1200	1500	2000
	inch	24	30	40	48	60	80
Depth	mm	0 - 170	0 - 170	0 - 130	0 - 130	0 - 130	0 - 130
	inch	0 - 6.7	0 - 6.7	0 - 5	0 - 5	0 - 5	0 - 5
SPECIAL DRUMS							
Maximum depth with reduced width	mm	230	230	130	130	130	130
	inch	9	9	5	5	5	5
Depth adjustment	independent right and left, mechanical - hydraulic *						
Side shift	hydraulic						
Transverse tilt	automatic/hydraulic*						
Tilt		16°	16°	16°	16°	16°	16°
Weight standard version (*)	kg	1000	1050	1090	1210	1290	1630
	lbs	2200	2300	2400	2660	2840	3600
Weight version with integrated spray system (*)	kg	1160	1210	1250	1370	1555	1895
	lbs	2550	2660	2750	3000	3430	4170
Required oil flow	l/min	110 - 170	110 - 170	110 - 190	120 - 190	130 - 200	130 - 200
	gpm	29 - 45	29 - 45	29 - 50	32 - 50	34 - 53	34 - 53
Maximum oil pressure	bar	310	310	310	310	310	310
	psi	4500	4500	4500	4500	4500	4500
Dust control spray system	kit for skid steer loader roof with electro-pump or built into side shift with electro-pump						

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