



PLATIT® 777- Series

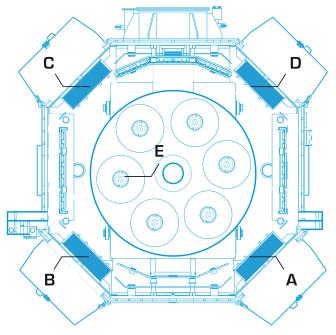
- Supreme Arc Technology
- O Dense, high-quality coatings
- Outstanding surface quality
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PL1011 G4 SAT

The PL1011 G4 SAT (Supreme Arc Technology) with revolutionary double-pulsed technology features four planar arc cathodes and eight arc power supplies, setting a new standard in PVD coating. As the next generation of PLATIT's robust coating units, it serves as the backbone of any high-volume coating center.





Technologies applied:

- 4 x Planar ARC cathode with 8 x ARC power supplies in both DC and pulsed modes
- A Planar Cathode
- **B** Planar Cathode
- C Planar Cathode
- **D** Planar Cathode
- **E** Carousel







Engineered for customers who prioritize both process reliability and high deposition rates, it delivers premium-quality coatings at low costs per tool. Its modernized design improves service accessibility, making maintenance more efficient and user-friendly.

Double-Pulsed technology

The PL1011 G4 SAT (Supreme Arc Technology) with revolutionary double-pulsed technology sets a new benchmark in PVD coating. Traditional arc evaporation, while enabling high deposition rates through high currents, often leads to rougher coatings. In contrast, the PL1011 G4 SAT achieves a significantly smoother surface with minimal droplet formation.

What sets this technology apart is its ability to generate a highly dense, strongly ionized plasma by combining advanced high-current medium-frequency power sources for pulsed arc with improved cathode technology for superior arc steering. The result is a dense, high-quality coating with reduced roughness, delivering outstanding surface quality.

This advanced double-pulsed technology offers exceptional efficiency, lower energy consumption, and shorter batch times thanks to enhanced evaporation rates. It also ensures a more uniform coating thickness across the entire height and optimizes target utilization.

Highlights

- Dense, ionized plasma using advanced power sources and enhanced cathode technology
- High productivity with 30 % faster coating deposition time
- Superior coating quality with a smoother surface and minimal droplet formation
- Optimized target utilization for increased efficiency and cost-effectiveness





Targets 4



Signature Coatings



Cycle ≥ 5.5 h



Max. Load 750 kg



Solution Turnkey



Service Worldwide



1011 G4 SAT



Etching technologies applied:

- LGD® (Lateral Glow Discharge)
- Plasma etching with argon, glow discharge
- Metal ion etching (Ti, Cr)

Load and cycle times:

- Max. coating volume: ø 715 × H 805 [mm]
- Max. coating height with defined coating thickness: 711 mm
- Max. load: 750 kg; higher weights upon request

3-4 batches/day for*:

Shank tools (2 µm):	ø 8 × 70 [mm]	1,008 pcs.	5.5-6.5 h	5.5-6.5 h	
Inserts (3 µm):	ø12 × 4 [mm]	11,760 pcs.	7-7.5 h		
Hobs (4 µm):	ø 80 × 180 [mm]	36 pcs.	6-6.5 h		
Hobs (4 µm):	ø 80 × 100 [mm]	72 pcs.	6-6.5 h		

^{*} Average cycle times in an ongoing production with max. number of cathodes in use.

Software:

- PLATIT SmartSoftware (PC and PLC system) with touch screen
- Statistics and help function via user interface
- Data recording and real-time display of process parameters and flow
- · Manual and automatic process control
- Remote diagnostics and maintenance
- Newly designed recipe editor

Modular carousel systems:

• 1 to 12 axes

Machine dimensions:

• Footprint: W 4,700 × D 2,250 × H 2,350 [mm]

Tool type	Tool diameter	Tool length	Satellites	Discs/ satellite	Holders/ disc	Tools/ holder	Tools/ disc	Tools/ batch	Holder type
Shaft Tool	6mm	50 mm	4	7	15	4	60	1,680	Е
	6mm	50 mm	4	7	42	1	42	1,176	В
	8mm	60 mm	4	7	42	1	36	1,176	В
	10 mm	70 mm	4	6	42	1	30	1,008	В
	20 mm	100 mm	4	5	23	1	23	460	В
Insert	12 mm	4mm	4	2 × 35	42	1	1470	11,760	С
Hob	140 mm	100 mm	10	6	1	1	1	60	F
	80 mm	100 mm	12	6	1	1	1	72	F

Holder type:

A Tool in a sleeve, driven by a gearbox

B Tool in a sleeve, driven by a kicker

C Insert with a hole, speared on a rod

D Tool in a revolver, driven by a gearbox

E Tool in a revolver, driven by a kicker

F Hob on a satellite/rod

G Tool in a sleeve, driven by a quad gearbox

Carousels

1011 **Holders** 805 mm Max. coatable height Single rotation D ≤ 700 mm 4 axes for kicker Disc with gears $D \le 270 \, \text{mm}$ 4/8/12 axes for kicker Gearbox with triple rotation 2 axes for saw blades with overlap $D \le 170 \, \text{mm}$ D ≤ 450 mm 3 axes for saw blades 10 axes for gearboxes Quad gearbox for quad rotation $D \le 420 \, \text{mm}$ with overlap, D ≤ 143 mm

D ≤ 250 mm without overlap

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