

Premium MIG welding guns

LINGUN[®] PROMIG[™]

PERFORMANCE
DEFINED

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LINCOLN[®]
ELECTRIC

LINGGUN® PROMIG™ NEW PREMIUM MIG GUN LINE

Applications

- General Fabrication
- Maintenance & Repair
- Structural
- Heavy Fabrication
- Shipbuilding
- Automotive

The LINGGUN® PROMIG™ delivers infallibly smooth welding across a wide range of welding processes allowing the operator to tackle a variety of applications from light-industrial to professional settings. The main goal of creating the new line was to provide our customers with MIG guns that offer the best performance and therefore, they were designed to be reliable, cost saving products, making welding easy, effective and efficient.



PERFORMANCE DEFINED

- Reliable and robust guns ensuring perfect welding
- **Highly resistant to mechanical damage and high temperatures**
- Smooth wire feeding
- Perfect match with Lincoln Electric welding equipment
- Significant savings through long life wear parts

UP TO **70% KG**
MORE WELDED
WIRE PER 1
CONTACT TIP*



**Mechanical
Resistance**



**Resistance to
overheating**



**Reduced
downtime**



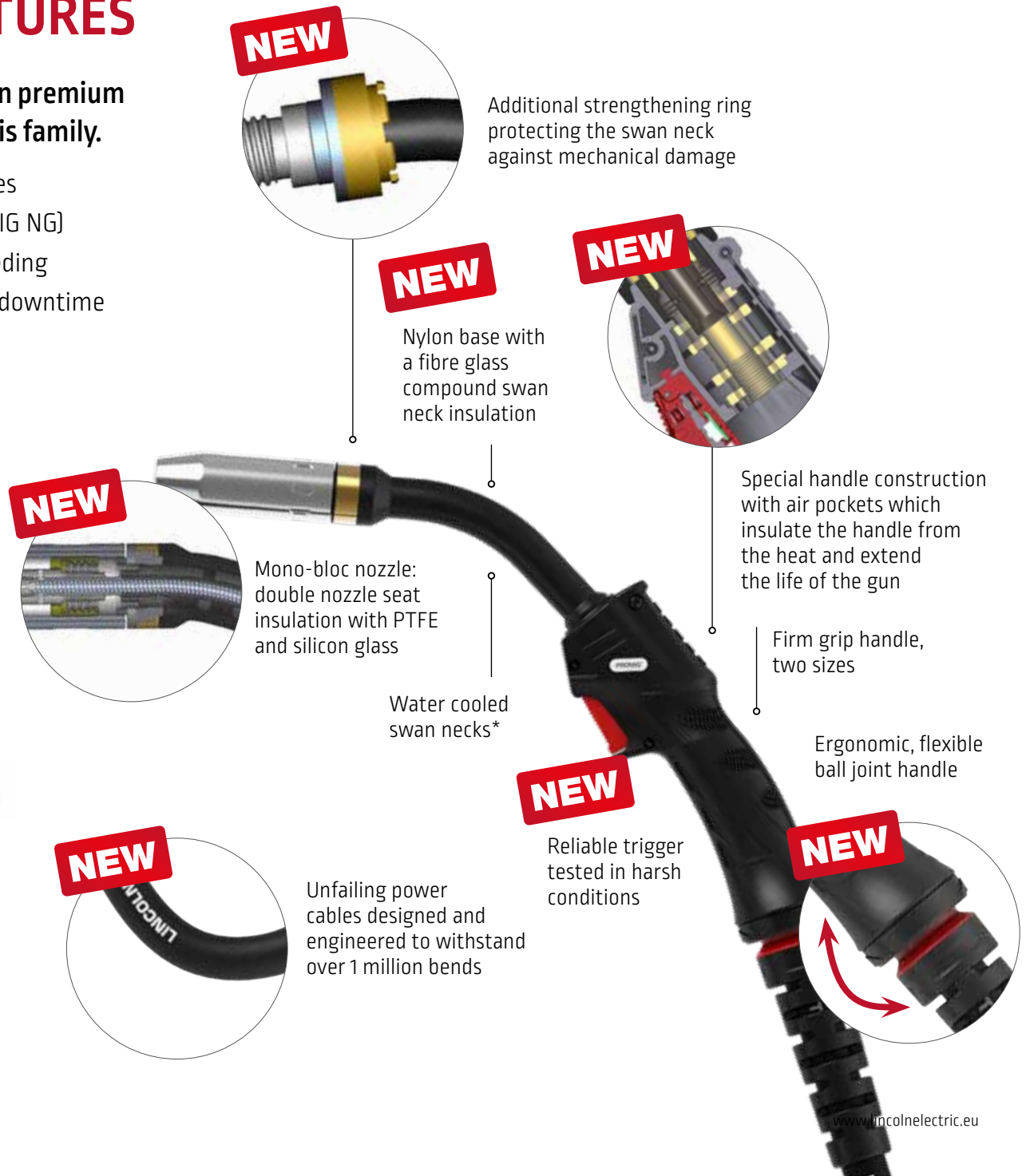
**Unfailing
Power Cables**

**more details on page 5*

NEW PROMIG™ – TOP FEATURES

The new line is built on a heritage of the well-known premium line: PROMIG, utilising the long life wear parts of this family.

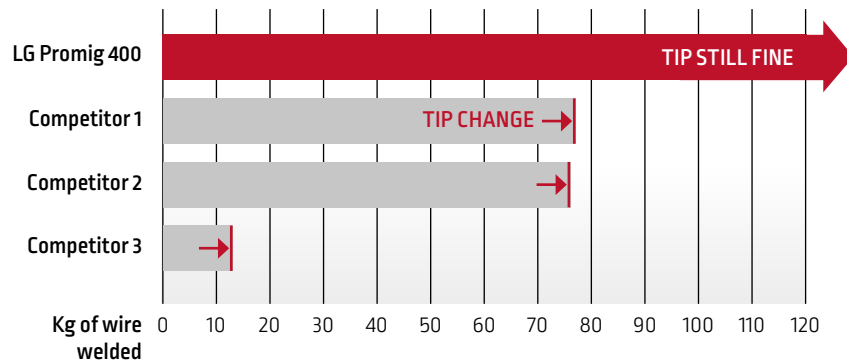
- Resistant to mechanical damage and high temperatures
- Long-life, proprietary wear parts (common with PROMIG NG)
- Dedicated high quality liners ensuring smooth wire feeding
- Simplified use and wear parts management to reduce downtime
- Model 230T with a rotatable swan neck
- Screwed nozzle
- Wide range
- Extended warranty, double the industry standard
- Compliant with EN 60974-7 norm



* for Water cooled models only

COST REDUCTION

Life test results



Contact tip PROMIG 43.5 mm



Standard contact tip

UP TO
**66%
MORE
COPPER**

**LONG LIFE
WEAR
PARTS**

How many contact tips do you use per day, week, year? How much can you save if you choose LG PROMIG?

Longevity tests comparing the LG PROMIG contact tips to a leading competitor revealed that the LG PROMIG allows you to weld continuously up to 70% longer with one contact tip, welding 129kg of wire thus, saving contact tip consumption and downtime required to change them.

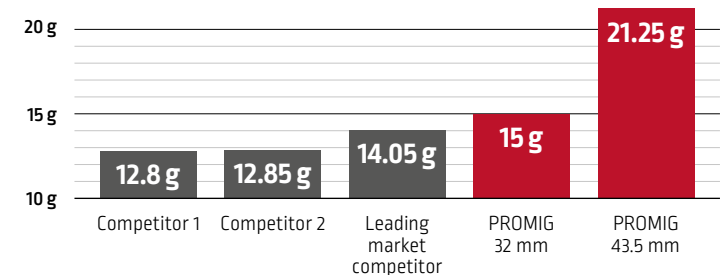
Coupled with the robust construction of our solid guns, which reduces the need for gun replacement and repairs, our complete solution provides unprecedented, measurable financial benefits.

UP TO
**50K EURO
SAVINGS***

UP TO **70% KG
MORE WELDED
WIRE PER 1
CONTACT TIP***

PROMIG contact tips have the greatest mass among the contact tips known to us.

The greater the mass of a contact tip, the better the heat dispersion. It keeps the tips cooler thus extending their life.



**LONG-LIFE WEAR PARTS + SOLID GUNS =
REDUCED DOWNTIME = COST REDUCTION**

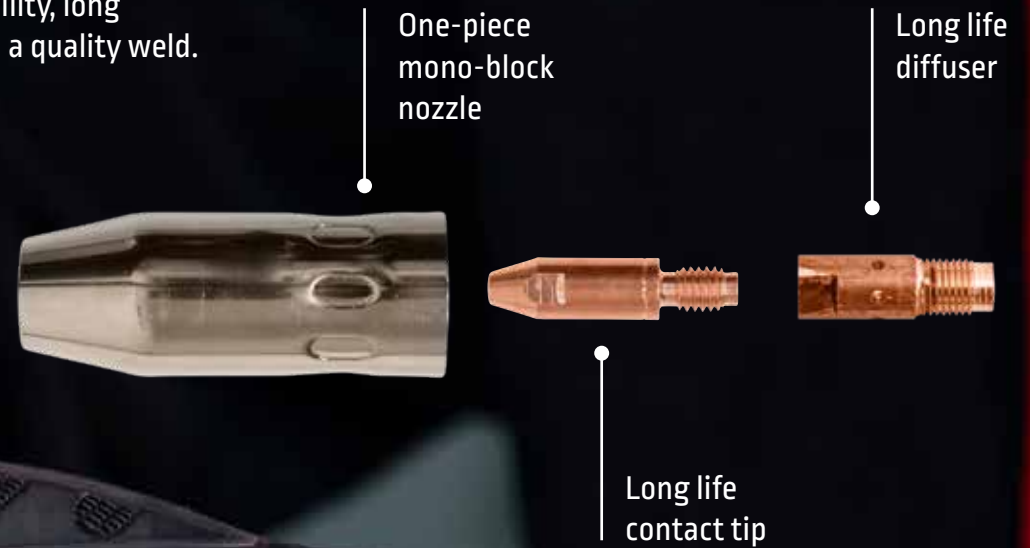
* Results based on following test parameters: Puls MIG program, 210A first 60 kg of wire, 7 m/min wire feed speed, above 60 kg: 290A, 10 m/min wire feed speed, 60% duty cycle. Contact tip usage values based on contact tip end of life or torch fatal failure. Your results may vary.

HASSLE-FREE WELDING

LG PROMIG guns allow continued, non-disturbance welding, ensuring reliability, long service life and simplified wear parts management, all significant factors to a quality weld.

Simplified use and wear parts management to reduce downtime

- LG PROMIG wear part number is reduced, for your daily job you would need only a contact tip and nozzle.
- Additional wear parts are easily replaced during welding (when hot) as heat does not affect maintenance during work.



SIGNIFICANT SAVINGS THROUGH LONG LIFE WEAR PARTS

NON-DISTURBANCE WELDING

REDUCED DOWNTIME BRINGS YOU MEASURABLE SAVINGS

ONLY 2 PARTS NEEDED FOR A DAILY JOB



Mechanical Resistance



Resistance to overheating



Reduced downtime



Unfailing Power Cables

STRONG RELIABLE GUNS

Accordingly to our tests LG PROMIG guns are one of the strongest guns on the market.*
They show exceptional resistance to high temperatures and to mechanical damages.

- Manufactured with the utmost care from high-quality materials
- Every gun tested before shipment

The construction of the gun is so strong that even the collapsing welded structure does not cause damage.



Neck reinforcement test

A 1.64 kg weight with a 40 cm arm was released at an angle of 160 degrees. The nozzle was struck 5 times with an impact force of approximately 11 J. The swan neck was not affected.



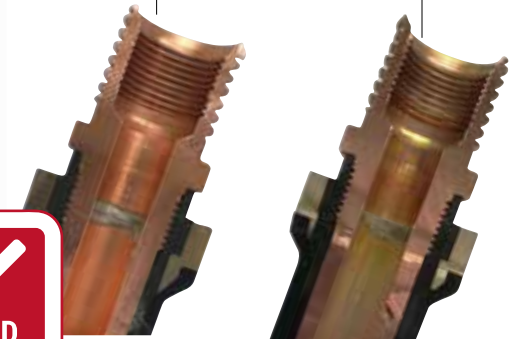
Over molded neck impact resistance test

To test for mechanical damages, a 2 kg weight was dropped onto the swan neck from a height of 1 m. No influence on the swan neck was observed.



LGP 400 neck before welding and impact test

LGP 400 neck after welding and impact test



TESTED
APPROVED
& TRUSTED
★★★★★

✓
DOUBLED
WARRANTY

DOUBLE WARRANTY

We trust in the highest quality and accuracy of our LG PROMIG guns which is why we offer an extended warranty of more than double that of the industry standard.

*Internal benchmark conducted against 5 leading competitor guns.

THE MOST EFFICIENT GUNS*

*Comparing to the 3 similar gun models of the other MIG guns providers

In our laboratory we checked the power loss of our new guns and compared them with the most popular guns on the market. We measure the voltage at the connector and terminal part of the gun. Our tests proved that our new guns have the lowest voltage drop, what makes them the most efficient guns among the tested.

- Lower cable temperature
- Lower power consumption
- More powerful arc



**THE
LOWEST
POWER
LOST**

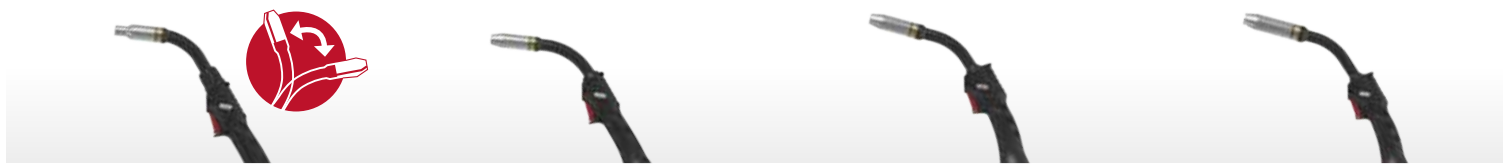


Model	Test Current I (A)	Voltage Drop (V)	Resistor (Ohm)	Power loss @300A	Power loss @400A	Efficiency Rank
LG PROMIG 400	10	12.403	1.240	112 W	198 W	1
Competitor gun 1	10	15.744	1.574	142 W	252 W	2
Competitor gun 2	10	20.558	2.056	185 W	329 W	3
Competitor gun 3	10	21.135	2.114	190 W	338 W	4

All guns according to EN 60974-7 and European standard connection.



AIR-COOLED MODELS



		LG PROMIG 230T	LG PROMIG 270	LG PROMIG 300	LG PROMIG 400
Duty cycle	CO ₂	230 A @ 60%	270 A @ 60%	300 A @ 60%	400 A @ 60%
	M21	200 A @ 60%	240 A @ 60%	270 A @ 60%	370 A @ 60%
Wire diameter options		0.8-1.0 mm	0.8-1.0 mm	1.0-1.2 mm	1.0-1.6 mm
Original equipment	Contact tip	0.8 mm steel	1.0 mm steel	1.2 mm steel	1.2 mm steel
	Nozzle	Ø 12 mm	Ø 14 mm	Ø 16 mm	Ø 16 mm
Handle size, other feature		Small, rotatable swan neck for comfortable welding in hard-to-reach places	Small	Large	Large
Typical application		Thin plates, automotive industry, out of position welding	Thin plates, light, fabrication, locksmithing	Vessel, manufacture, steel structures, boiler making, structural steelwork	Thick plates, heavy duty welding when water cooling is not possible
		Reference			
3 m		W000275408-2	W000345060-2	W000345066-2	W000345072-2
4 m		W000275419-2	W000345061-2	W000345067-2	W000345073-2
5 m		W000275420-2	W000345062-2	W000345068-2	W000345074-2



WATER-COOLED MODELS



		LG PROMIG 330W	LG PROMIG 400W	LG PROMIG 500W
Duty cycle	CO ₂	330 A @ 100%	400 A @ 100%	500 A @ 100%
	M21	300 A @ 100%	370 A @ 100%	450 A @ 100%
Wire diameter options		0.8-1.0 mm	1.0-1.2 mm	1.0-1.6 mm
Original equipment	Contact tip	1.0 mm steel	1.2 mm steel	1.2 mm steel
	Nozzle	Ø 14 mm	Ø 16 mm	Ø 16 mm
Handle size		Small	Small	Large
Typical application		Precision and high-intensity applications	Intensive applications such as boiler making, structural steelwork, mechanical welding	Thick plates, heavy duty welding
		Reference		
3 m		W000345063-2	W000345069-2	W000345075-2
4 m		W000345064-2	W000345070-2	W000345076-2
5 m		W000345065-2	W000345071-2	W000345077-2





WEAR PARTS FOR AIR COOLED LG PROMIG GUNS

LG PROMIG		Ø mm	① Contact tip	Diffuser	② Nozzle	③ Internal liner		
						3 m	4 m	5 m
230T	Steel	0.8	W000345574*	W000345335	W000345408 (D12)* or W000345409 (D14)	W100000273	W100000274	W100000275
		1.0	W000345575			W100000276	W100000277	W100000278
		1.2	W000345577			W100000276	W100000277	W100000278
270	Steel	0.8	W000345574	W000345335	W000345410 (D12) or W000345411 (D14)*	W100000273	W100000274	W100000275
		1.0	W000345575*			W100000276	W100000277	W100000278
		1.2	W000345577			W100000276	W100000277	W100000278
	Aluminium	1.0	W000345576			W100000279	W100000280	W100000281
		1.2	W000345578			W100000279	W100000280	W100000281
300	Steel	1.0	W000345580	W000345341	W000345421 (D14) or W000345422 (D16)*	W100000282	W100000283	W100000284
		1.2	W000345582*			W100000282	W100000283	W100000284
		1.4	W000345584			W100000285	W100000286	W100000287
		1.6	W000345585			W100000285	W100000286	W100000287
	Aluminium	1.0	W000345581			W100000288	W100000289	W100000290
		1.2	W000345583			W100000288	W100000289	W100000290
		1.6	W000345583			W100000288	W100000289	W100000290
400	Steel	1.0	W000345587	W000345347	W000345427 (D16)* or W000345428 (D19)	W100000282	W100000283	W100000284
		1.2	W000345589*			W100000282	W100000283	W100000284
		1.4	W000345591			W100000285	W100000286	W100000287
		1.6	W000345592			W100000285	W100000286	W100000287
	Aluminium	1.0	W000345588			W100000288	W100000289	W100000290
		1.2	W000345590			W100000288	W100000289	W100000290
		1.6	W000345593			W100000291	W100000292	W100000293

* wear parts supplied with the gun

D12 / 14 / 16 = Nozzle outlet diameter 12 mm / 14 mm / 16 mm

Expendable parts

① CONTACT TIP



② NOZZLE



③ INTERNAL LINER



LG PROMIG 230T



LG PROMIG 270



LG PROMIG 300

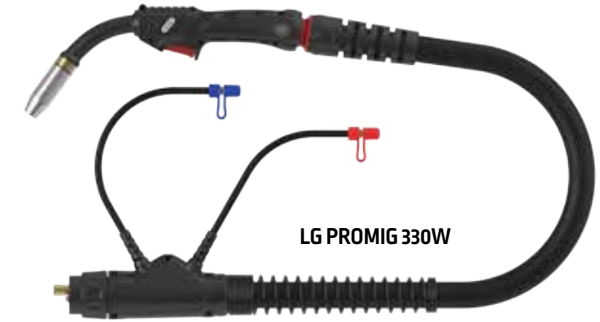


LG PROMIG 400

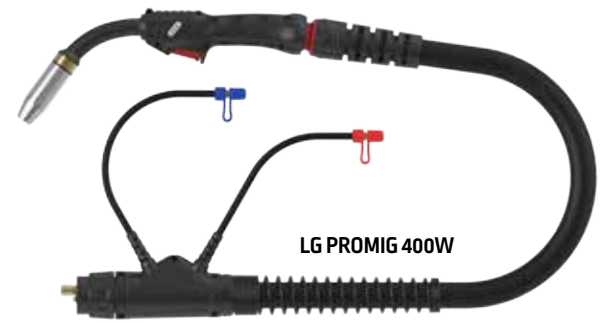
WEAR PARTS FOR WATER COOLED LG PROMIG GUNS

LG PROMIG	Ø mm	① Contact tip	Diffuser	② Nozzle	③ Internal liner			
					3 m	4 m	5 m	
330W	Steel	0.8	W000345574	W000345335	W000345410 (D12) or W000345411 (D14)*	W100000273	W100000274	W100000275
		1.0	W000345575*			W100000276	W100000277	W100000278
		1.2	W000345577			W100000276	W100000277	W100000278
	Aluminium	1.0	W000345576			W100000279	W100000280	W100000281
		1.2	W000345578			W100000279	W100000280	W100000281
400W	Steel	1.0	W000345580	W000345341	W000345421 (D14) or W000345422 (D16)*	W100000282	W100000283	W100000284
		1.2	W000345582*			W100000282	W100000283	W100000284
		1.4	W000345584			W100000285	W100000286	W100000287
		1.6	W000345585			W100000285	W100000286	W100000287
	Aluminium	1.0	W000345581			W100000288	W100000289	W100000290
		1.2	W000345583			W100000288	W100000289	W100000290
500W	Steel	1.0	W000345587	W000345347	W000345427 (D16)* or W000345428 (D19)	W100000282	W100000283	W100000284
		1.2	W000345589*			W100000282	W100000283	W100000284
		1.4	W000345591			W100000285	W100000286	W100000287
		1.6	W000345592			W100000285	W100000286	W100000287
	Aluminium	1.0	W000345588			W100000288	W100000289	W100000290
		1.2	W000345590			W100000288	W100000289	W100000290
		1.6	W000345593			W100000291	W100000292	W100000293

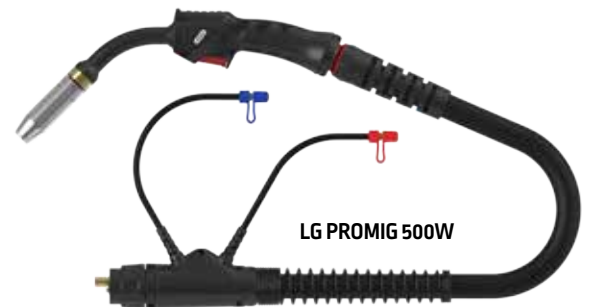
* wear parts supplied with the gun
D12 / 14 / 16 = Nozzle outlet diameter 12 mm / 14 mm / 16 mm



LG PROMIG 330W



LG PROMIG 400W



LG PROMIG 500W

Expendable parts

① CONTACT TIP



② NOZZLE



③ INTERNAL LINER



TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application.

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to enquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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