

*L'utensileria per chi lavora la lamiera*

# Ricambi e Ottiche per Macchine a taglio Laser



Accessori UPT

AMADA

BLM

BYSTRONIC

CY LASER

LVD

MAZAK

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PRECITEC

PRIMA

SALVAGNINI

TRUMPF

e altro su richiesta



STRUMENTI AVANZATI - SOFTWARE  
PUNZONATURA - TAGLIO - PIEGATURA

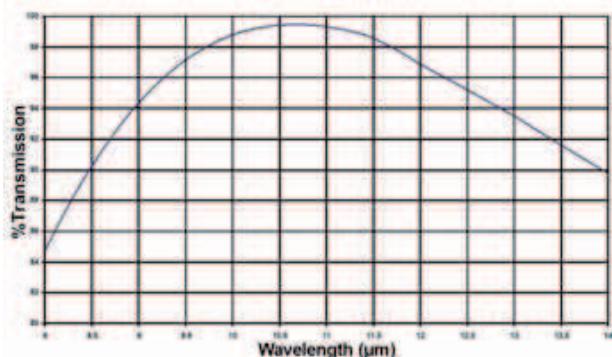
[www.uptitalia.it](http://www.uptitalia.it)

## COATING ANTIRIFLESSO - AR

Il trattamento Antiriflesso (AR) viene depositato sulla superficie della lente per ottimizzare la trasmissione del fascio laser minimizzando la componente riflessa dal materiale che costituisce il substrato.

Le lenti in ZnSe vengono rivestite con coating AR ottimizzato alla lunghezza d'onda del laser (10.6 µm).

High-Efficiency Anti-Reflective Coating on ZnSe for 10.6µm  
Transmission vs. Wavelength



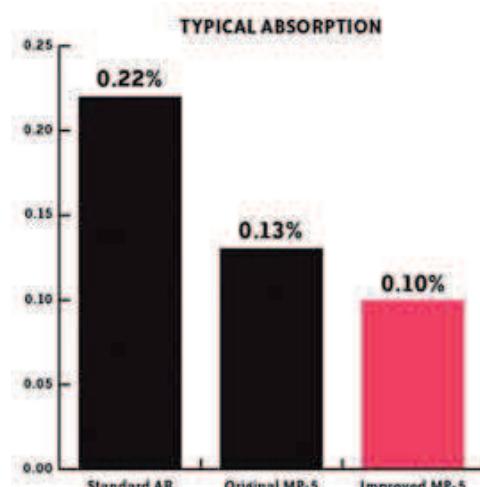
## COATING ANTIRIFLESSO A BASSO ASSORBIMENTO - MP5-AR

Da oltre 10 anni II-VI realizza un coating a basso assorbimento, denominato MP5, particolarmente indicato per sistemi ad alta potenza.

Ora il coating MP5-AR è ulteriormente migliorato e l'assorbimento tipico di una lente con rivestimento MP5-AR è inferiore alla metà dell'assorbimento tipico di una lente con rivestimento AR standard.

Il basso assorbimento comporta minore stress termico sulla lente che, a parità di condizioni, ha una vita media superiore.

Di seguito un grafico che paragona il tipico assorbimento di una lente con rivestimento AR, MP5 e MP5 migliorato.



## OTTICHE A RIFLESSIONE SPECCHI/PARTIAL REFLECTOR

II-VI produce tutte le ottiche all'interno dell'impianto laser: dalla prima (specchio posteriore del risonatore) all'ultima (lente di focalizzazione).

Oltre ad occuparsi della crescita e della lavorazione del substrato delle lenti e delle finestre (il Seleniuro di Zinco), II-VI riveste i diversi materiali utilizzati come substrato per le ottiche a riflessione (Rame, Silicio, Alluminio, Arseniuro di Gallio, Germanio) con film sottili che ne ottimizzano le proprietà ottiche, rendendoli adatti all'utilizzo in impianti laser multi-kW.

II-VI realizza rear mirror e output coupler, specchi piani, sferrici, parabolici, specchi polarizzatori e ritardatori di fase.

Ogni ottica è progettata per ottimizzare le performance richieste dall'impianto in cui è montata e, in base alla sua funzione all'interno della catena ottica, ha un rivestimento specifico.

Alcuni tra i coating più comuni:



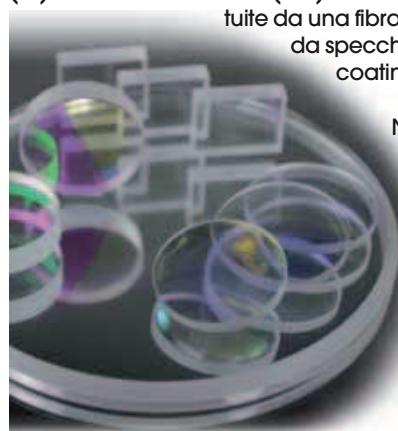
SILVER BASED	GOLD BASED	MAXIMUM METAL REFLECTOR	PHASE RETARDING	POLARIZATION CONTROL
PS	BG	MMR	TRZ	ATFR
ES	PG	MMR-A	RPR	PLM
	EG	DEMMR	HRPR	

## LASER IN FIBRA LENTI E FINESTRE DI PROTEZIONE

I laser in fibra si stanno diffondendo come valida alternativa ai tradizionali laser CO<sub>2</sub>, soprattutto per particolari applicazioni (taglio di bassi spessori) e per particolari materiali ad alta riflettività (rame, ottone).

La principale differenza ottica tra i laser CO<sub>2</sub> e i laser in fibra è la lunghezza d'onda della radiazione emessa: 10.6 µm per il CO<sub>2</sub> contro 1.07 µm per il fibra.

Considerata la differente lunghezza d'onda di lavoro è necessario utilizzare ottiche appropriate. I materiali comunemente usati per le lenti di un laser in fibra sono il Fused Silica (FS) ed il Solfuro di Zinco (ZnS). Le catene ottiche sono sostituite da una fibra ottica e, in alcuni casi, da specchi rivestiti con opportuni coating ottimizzati a 1.07 µm.



Nelle teste per laser in fibra è generalmente inserito un "vetrino di protezione", anch'esso in FS. Sia le lenti sia i vetrini sono rivestiti con un trattamento superficiale Antiriflesso (AR/AR @ 1.07 µm).

## ANALIZZATORE DI STRESS TERMICO PORTATILE

Nelle lavorazioni di taglio laser è spesso sufficiente un alone invisibile di sporco sulla lente per ridurre notevolmente l'efficienza e la produttività del sistema.



I residui delle lavorazioni accumulati sulla lente, se non vengono rimossi con operazioni costanti di pulizia, a lungo andare innescano il fenomeno dello stress termico. Lo stress altera le caratteristiche del fascio laser trasmesso determinando fluttuazioni diminuzioni di potenza e inducendo lo spostamento del punto focale. Il coating si può inoltre danneggiare a causa di un alto gradiente termico focalizzato (determinato da graffi e contaminazioni) Che può portare fino alla rottura dell'ottica stessa. Conoscere lo stato di stress della propria ottica ha dunque un duplice vantaggio: garantire la massima qualità del taglio e prevenire danni significativi al sistema. Il "Lens Stress Analyzer (L.S.A.)", composto da una sorgente di luce a fluorescenza e da una coppia di polarizzatori in rotazione, è alimentato tramite rete elettrica o con batterie per consentire una rapida analisi del livello di stress della lente direttamente sul posto prima del montaggio.

## LSA MINI

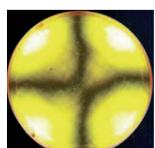
LSA Mini è l' evoluzione, portatile, economica e rapida, di LSA. Seguendo le semplici istruzioni di seguito, potrai velocemente capire, se la lente ha accusato lo stress termico, che può alterare le caratteristiche necessarie al corretto funzionamento della stessa".

### Come usare LSA MINI:

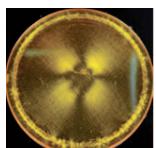
1. Trova lo schermo di computer più vicino
2. Aggancia il Mini LSA sul telefono, rivolto verso l'esterno e accendi la fotocamera.
3. Posiziona la lente, di fronte lo schermo. Ruota il telefono di fronte alla lente.
4. Ruotando il telefono, l' incrociare della polarizzazione, con la luce fluorescente del tuo schermo, ti mostrerà qualsiasi stress la lente abbia, e ti verrà mostrato come da immagini che seguono:



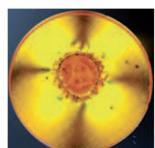
Nessun stress apparente.  
Potrebbe bastare la pulizia della lente



Stress moderato.  
Potrebbe essere necessaria la sostituzione della lente



Stress grave,  
la lente deve essere sostituita, per evitare possibili danni al sistema



Grave danno,  
possibile danno al sistema laser.



## KIT DI PULIZIA OTTICHE LASER CO<sup>2</sup> E FIBRA

Di fondamentale importanza è la pulizia delle ottiche che deve avvenire con procedure adeguate.

UPT mette a disposizione un kit, PN911466 che contiene:

- 1 flacone da 250 ml di µm polish
- 1 flacone da 250 ml di acqua distillata
- 1 soffietto aria
- 1 contenitore per Acetone (vuoto)
- 1 contenitore per Alcool isopropilico (vuoto)
- 1 busta di cotton balls
- 1 box (170) di Q-tips
- 1 busta di carta per ottiche (25 fogli)
- 1 valigetta di trasporto
- 1 istruzioni per la pulizia



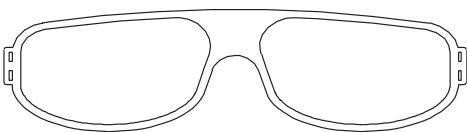
## SOFFIETTI PER LASER

UPT srl può fornire tutti i soffietti per le principali marche e modelli di laser. I soffietti sono costruiti in Italia utilizzando i materiali più idonei per questa tipologia di applicazione, garantendone così affidabilità e la lunga durata.

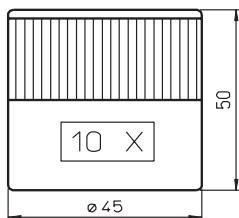
### SOFFIETTI PER CREMAGLIERA DI RICAMBIO DELLE PRINCIPALI MARCHE DI MACCHINE TAGLIO LASER

- Soffietti in tessuto tecnologico
- Soffietti per assi cremagliera
- Soffietti poligonali chiusi
- Soffietti per monoguide anche singoli
- COSTRUZIONE SOFFIETTI  
SU DISEGNO/CAMPIONE
- RIPARAZIONE DI SOFFIETTI ESISTENTI

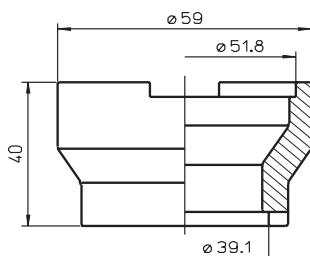




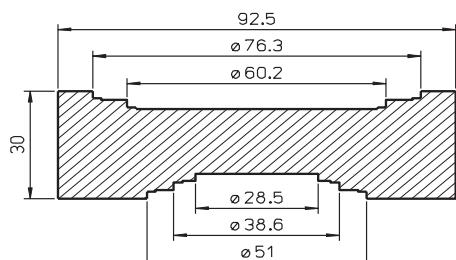
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0001			ACC. LASER CO2 GLASSES CE APPROVED	
UAC0002		240568 - 100	ACC. LENS CLEANING POLISH - ml 100	
UAC0003		240568 - 200	ACC. LENS CLEANING POLISH - ml 200	
UAC0004			ACC. DROPPER FOR LENS CLEANING LIQUID	
UAC0005			ACC. LATEX GLOVES - 10 pieces	
UAC0006			ACC. INDIUM WIRE Ø 1.0mm FOR 1.5" LENSE	
UAC0007			ACC. INDIUM WIRE Ø 1.0mm FOR Ø 2.0mm LENS	
UAC0009			ACC. LENS CLEANING PAPER - 50sheets	
UAC0010			ACC. COTTON SWAB -20 pieces	
UAC0011			ACC. LENS CLEANING PRE-CUT COTTON - 80 pieces	



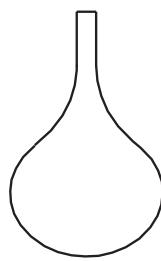
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0012		091860	ACC. SCALE LUPE	



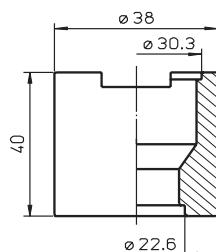
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0013			ACC. BASE FOR LENS MAINTENANCE	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0014			ACC. BASE FOR LENS AND MIRROR CLEANING	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>UAC0015</b>			<b>ACC. INJECTOR</b>	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>UAC0016</b>		6910010029/00	<b>ACC. BASE FOR MIRROR MAINTENANCE</b>	
<b>UAC0017</b>			<b>LONG-HANDED SWAB-100 PCS PACK.</b>	
<b>UAC0018</b>			<b>LARGE ALPHA SWAB-conf.100 pz.</b>	
<b>UAC0019</b>			<b>BASTONCINO PULIZIA OTTICHE-conf. 50 pz.</b>	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>A1893358</b>			<b>TRUTOOL TSC 100 KIT utensile pulizia per barre da 3 a 3,9 mm</b>	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>1644868</b>			<b>KIT utensile pulizia per barre da 2 a 2,9 mm - set 2 pz.</b>	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>1644867</b>			<b>KIT utensile pulizia per barre da 3 a 3,9 mm - set 2 pz.</b>	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>ST-3310</b>			<b>AIR SPEED HAMMER completo di 2 TAMPONI</b>	

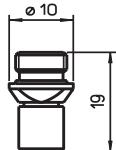
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>ST-3310K</b>			<b>AIR SPEED HAMMER completo di 6 TAMPONI</b>	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>LSA002W</b>			<b>II-VI LENS STRESS ANALYZER</b>	

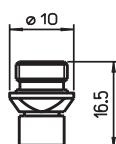
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>LSAMINI</b>			<b>LSA MINI LENS STRESS ANALYZER</b>	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>LCK911466</b>			<b>II-VI KIT PULIZIA LENTI CO2</b>	

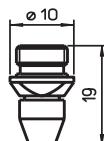
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>LCK5358332</b>			<b>II-VI KIT PULIZIA LENTI FIBRA</b>	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0001-10		490.76.102	PRIMA I.® NOZZLE Ø 0.3 BRASS CYLINDRICAL-box 10 pcs.	
UPI0002-10			PRIMA I.® NOZZLE Ø 1.0 BRASS CYLINDRICAL-box 10 pcs.	
UPI0003-10			PRIMA I.® NOZZLE Ø 1.0 COPPER CYLINDRICAL-box 10 pcs.	
UPI0004-10			PRIMA I.® NOZZLE Ø 1.2 COPPER CYLINDRICAL-box 10 pcs.	
UPI0005		485.73.321	PRIMA I.® NOZZLE Ø 1.5 BRASS CYLINDRICAL	
UPI0005-10		485.73.321	PRIMA I.® NOZZLE Ø 1.5 BRASS CYLINDRICAL-box 10 pcs.	
UPI0006-10			PRIMA I.® NOZZLE Ø 1.5 COPPER CYLINDRICAL-box 10 pcs.	
UPI0007-10			PRIMA I.® NOZZLE Ø 1.7 COPPER CYLINDRICAL-box 10 pcs.	
UPI0008-10		485.73.322	PRIMA I.® NOZZLE Ø 2.0 BRASS CYLINDRICAL-box 10 pcs.	
UPI0009-10			PRIMA I.® NOZZLE Ø 2.0 COPPER CYLINDRICAL-box 10 pcs.	
UPI0010-10		485.73.323	PRIMA I.® NOZZLE Ø 2.5 BRASS CYLINDRICAL-box 10 pcs.	
UPI0011-10			PRIMA I.® NOZZLE Ø 2.5 COPPER CYLINDRICAL-box 10 pcs.	
UPI0012-10		485.73.324	PRIMA I.® NOZZLE Ø 3.0 BRASS CYLINDRICAL-box 10 pcs.	
UPI0013-10			PRIMA I.® NOZZLE Ø 3.0 COPPER CYLINDRICAL-box 10 pcs.	
UPI0003C-10			PRIMA I.® NOZZLE Ø 1.0 CP-box 10 pcs.	
UPI0004C-10			PRIMA I.® NOZZLE Ø 1.2 CP-box 10 pcs.	
UPI0006C		485.73.421	PRIMA I.® NOZZLE Ø 1.5 CP	
UPI0006C-10		485.73.421	PRIMA I.® NOZZLE Ø 1.5 CP-box 10 pcs.	
UPI0007C-10			PRIMA I.® NOZZLE Ø 1.7 CP-box 10 pcs.	
UPI0009C		485.73.422	PRIMA I.® NOZZLE Ø 2.0 CP	
UPI0009C-10		485.73.422	PRIMA I.® NOZZLE Ø 2.0 CP-box 10 pcs.	
UPI0011C		485.73.423	PRIMA I.® NOZZLE Ø 2.5 CP	
UPI0011C-10		485.73.423	PRIMA I.® NOZZLE Ø 2.5 CP-box 10 pcs.	
UPI0013C-10			PRIMA I.® NOZZLE Ø 3.0 CP-box 10 pcs.	

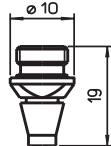


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0014-10		490.1N.301	PRIMA I.® NOZZLE Ø 2.0 BRASS SHORT-box 10 pcs.	
UPI0015-10		490.1N.302	PRIMA I.® NOZZLE Ø 2.5 BRASS SHORT-box 10 pcs.	
UPI2053-10			PRIMA I.® NOZZLE Ø 3.0 BRASS SHORT-box 10 pcs.	

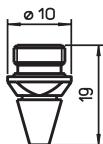


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0016-10			PRIMA I.® NOZZLE Ø 0.3-box 10 pcs.	
UPI0017-10			PRIMA I.® NOZZLE Ø 1.0-box 10 pcs.	
UPI0018-10			PRIMA I.® NOZZLE Ø 1.2-box 10 pcs.	
UPI0019-10			PRIMA I.® NOZZLE Ø 1.5-box 10 pcs.	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0020-10			PRIMA I.® NOZZLE Ø 1.7-box 10 pcs.	
UPI0021-10			PRIMA I.® NOZZLE Ø 2.0-box 10 pcs.	
UPI0022			PRIMA I.® NOZZLE Ø 2.5	
UPI0022-10			PRIMA I.® NOZZLE Ø 2.5-box 10 pcs.	
UPI0023-10			PRIMA I.® NOZZLE Ø 3.0-box 10 pcs.	



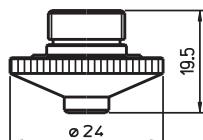
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0024-10			PRIMA I.® NOZZLE Ø 1.5 CON-CYL-box 10 pcs.	
UPI0025-10			PRIMA I.® NOZZLE Ø 2.0 CON-CYL-box 10 pcs.	
UPI0026-10			PRIMA I.® NOZZLE Ø 2.5 CON-CYL-box 10 pcs.	
UPI2026-10			PRIMA I.® NOZZLE Ø 3.0 CON-CYL-box 10 pcs.	
UPI0027C-10		485.73.455	PRIMA I.® NOZZLE Ø 0.3 CP CON-CYL-box 10 pcs.	
UPI0024C		485.73.451	PRIMA I.® NOZZLE Ø 1.5 CP CON-CYL	
UPI0024C-10		485.73.451	PRIMA I.® NOZZLE Ø 1.5 CP CON-CYL-box 10 pcs.	
UPI0025C		485.73.452	PRIMA I.® NOZZLE Ø 2.0 CP CON-CYL	
UPI0025C-10		485.73.452	PRIMA I.® NOZZLE Ø 2.0 CP CON-CYL-box 10 pcs.	
UPI0026C		485.73.453	PRIMA I.® NOZZLE Ø 2.5 CP CON-CYL	
UPI0026C-10		485.73.453	PRIMA I.® NOZZLE Ø 2.5 CP CON-CYL-box 10 pcs.	
UPI2026C-10			PRIMA I.® NOZZLE Ø 3.0 CP CON-CYL-box 10 pcs.	



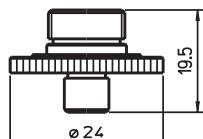
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0028-10		490.76.103	PRIMA I.® NOZZLE Ø 0.3 CONICAL BRASS-box 10 pcs.	
UPI0029-10			PRIMA I.® NOZZLE Ø 1.0 CONICAL COPPER-box 10 pcs.	
UPI0030-10			PRIMA I.® NOZZLE Ø 1.2 CONICAL COPPER-box 10 pcs.	
UPI0031-10		485.73.331	PRIMA I.® NOZZLE Ø 1.5 CONICAL BRASS-box 10 pcs.	
UPI0032-10			PRIMA I.® NOZZLE Ø 1.5 CONICAL COPPER-box 10 pcs.	
UPI0033-10			PRIMA I.® NOZZLE Ø 1.7 CONICAL COPPER-box 10 pcs.	
UPI0034-10		485.73.333	PRIMA I.® NOZZLE Ø 2.0 CONICAL BRASS-box 10 pcs.	
UPI0035			PRIMA I.® NOZZLE Ø 2.0 CONICAL COPPER	
UPI0035-10			PRIMA I.® NOZZLE Ø 2.0 CONICAL COPPER-box 10 pcs.	
UPI0036-10		485.73.334	PRIMA I.® NOZZLE Ø 2.5 CONICAL BRASS-box 10 pcs.	
UPI0037-10			PRIMA I.® NOZZLE Ø 2.5 CONICAL COPPER-box 10 pcs.	
UPI0038-10			PRIMA I.® NOZZLE Ø 3.0 CONICAL COPPER-box 10 pcs.	
UPI0029C-10			PRIMA I.® NOZZLE Ø 1.0 CP-box 10 pcs.	
UPI0030C-10			PRIMA I.® NOZZLE Ø 1.2 CP-box 10 pcs.	
UPI0032C		485.73.431	PRIMA I.® NOZZLE Ø 1.5 CP	
UPI0032C-10		485.73.431	PRIMA I.® NOZZLE Ø 1.5 CP-box 10 pcs.	
UPI0033C-10			PRIMA I.® NOZZLE Ø 1.7 CP-box 10 pcs.	
UPI0035C-10		485.73.433	PRIMA I.® NOZZLE Ø 2.0 CP-box 10 pcs.	
UPI0037C-10			PRIMA I.® NOZZLE Ø 2.5 CP-box 10 pcs.	
UPI0038C		485.73.43x	PRIMA I.® NOZZLE Ø 3.0 CP	
UPI0038C-10		485.73.43x	PRIMA I.® NOZZLE Ø 3.0 CP-box 10 pcs.	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0039		480.73.107	PRIMA I.® INSULATING RING-PLASTIC - HEAD 5" - ID 10	
UPI0040			PRIMA I.® INSULATING RING-PLASTIC - HEAD 7.5" - ID 11	



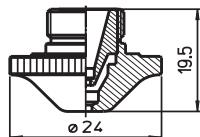
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0041			PRIMA I.® NOZZLE Ø 0.8	
UPI0041-10			PRIMA I.® NOZZLE Ø 0.8-box 10 pcs.	
UPI0042			PRIMA I.® NOZZLE Ø 1.0	
UPI0042-10			PRIMA I.® NOZZLE Ø 1.0-box 10 pcs.	
UPI0043			PRIMA I.® NOZZLE Ø 1.2	
UPI0043-10			PRIMA I.® NOZZLE Ø 1.2-box 10 pcs.	
UPI0044	LW6.1E.111		PRIMA I.® NOZZLE Ø 1.5	
UPI0044-10	LW6.1E.111		PRIMA I.® NOZZLE Ø 1.5-box 10 pcs.	
UPI0045	LW6.1E.112		PRIMA I.® NOZZLE Ø 2.0	
UPI0045-10	LW6.1E.112		PRIMA I.® NOZZLE Ø 2.0-box 10 pcs.	
UPI0046	LW6.1E.113		PRIMA I.® NOZZLE Ø 2.5	
UPI0046-10	LW6.1E.113		PRIMA I.® NOZZLE Ø 2.5-box 10 pcs.	
UPI0047	LW6.1E.114		PRIMA I.® NOZZLE Ø 3.0	
UPI0047-10	LW6.1E.114		PRIMA I.® NOZZLE Ø 3.0-box 10 pcs.	
UPI0041C			PRIMA I.® NOZZLE Ø 0.8 CP	
UPI0041C-10			PRIMA I.® NOZZLE Ø 0.8 CP-box 10 pcs.	
UPI0042C			PRIMA I.® NOZZLE Ø 1.0 CP	
UPI0042C-10			PRIMA I.® NOZZLE Ø 1.0 CP-box 10 pcs.	
UPI0043C			PRIMA I.® NOZZLE Ø 1.2 CP	
UPI0043C-10			PRIMA I.® NOZZLE Ø 1.2 CP-box 10 pcs.	
UPI0044C	LW6.1E.111		PRIMA I.® NOZZLE Ø 1.5 CP	
UPI0044C-10	LW6.1E.111		PRIMA I.® NOZZLE Ø 1.5 CP-box 10 pcs.	
UPI0045C	LW6.1E.112		PRIMA I.® NOZZLE Ø 2.0 CP	
UPI0045C-10	LW6.1E.112		PRIMA I.® NOZZLE Ø 2.0 CP-box 10 pcs.	
UPI0046C	LW6.1E.113		PRIMA I.® NOZZLE Ø 2.5 CP	
UPI0046C-10	LW6.1E.113		PRIMA I.® NOZZLE Ø 2.5 CP-box 10 pcs.	
UPI0047C	LW6.1E.114		PRIMA I.® NOZZLE Ø 3.0 CP	
UPI0047C-10	LW6.1E.114		PRIMA I.® NOZZLE Ø 3.0 CP-box 10 pcs.	



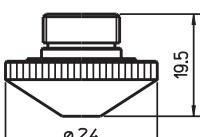
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI1013			PRIMA I.® NOZZLE Ø 1.0	
UPI1013-10			PRIMA I.® NOZZLE Ø 1.0-box 10 pcs.	
UPI1014			PRIMA I.® NOZZLE Ø 1.2	
UPI1014-10			PRIMA I.® NOZZLE Ø 1.2-box 10 pcs.	

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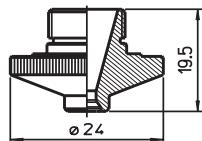
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0048		LW6.1G.500-LW6.1G.600	PRIMA I.® NOZZLE Ø 1.5	
UPI0048-10		LW6.1G.500-LW6.1G.600	PRIMA I.® NOZZLE Ø 1.5-box 10 pcs.	
UPI0049		LW6.1G.501-LW6.1G.601	PRIMA I.® NOZZLE Ø 2.0	
UPI0049-10		LW6.1G.501-LW6.1G.601	PRIMA I.® NOZZLE Ø 2.0-box 10 pcs.	
UPI0050		LW6.1G.502-LW6.1G.602	PRIMA I.® NOZZLE Ø 2.5	
UPI0050-10		LW6.1G.502-LW6.1G.602	PRIMA I.® NOZZLE Ø 2.5-box 10 pcs.	
UPI0051		LW6.1G.503-LW6.1G.603	PRIMA I.® NOZZLE Ø 3.0	
UPI0051-10		LW6.1G.503-LW6.1G.603	PRIMA I.® NOZZLE Ø 3.0-box 10 pcs.	
UPI1013C			PRIMA I.® NOZZLE Ø 1.0 CP	
UPI1013C-10			PRIMA I.® NOZZLE Ø 1.0 CP-box 10 pcs.	
UPI1014C			PRIMA I.® NOZZLE Ø 1.2 CP	
UPI1014C-10			PRIMA I.® NOZZLE Ø 1.2 CP-box 10 pcs.	
UPI0048C		LW6.1G.500-LW6.1G.600	PRIMA I.® NOZZLE Ø 1.5 CP	
UPI0048C-10		LW6.1G.500-LW6.1G.600	PRIMA I.® NOZZLE Ø 1.5 CP-box 10 pcs.	
UPI0049C		LW6.1G.501-LW6.1G.601	PRIMA I.® NOZZLE Ø 2.0 CP	
UPI0049C-10		LW6.1G.501-LW6.1G.601	PRIMA I.® NOZZLE Ø 2.0 CP-box 10 pcs.	
UPI0050C		LW6.1G.502-LW6.1G.602	PRIMA I.® NOZZLE Ø 2.5 CP	
UPI0050C-10		LW6.1G.502-LW6.1G.602	PRIMA I.® NOZZLE Ø 2.5 CP-box 10 pcs.	
UPI0051C		LW6.1G.503-LW6.1G.603	PRIMA I.® NOZZLE Ø 3.0 CP	
UPI0051C-10		LW6.1G.503-LW6.1G.603	PRIMA I.® NOZZLE Ø 3.0 CP-box 10 pcs.	



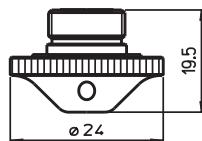
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0052C		1059.70000.010	PRIMA I.® DOUBLE NOZZLE Ø 0.8 CP	
UPI0052C-10		1059.70000.010	PRIMA I.® DOUBLE NOZZLE Ø 0.8 CP-box 10 pcs.	
UPI0053C		1059.70000.003	PRIMA I.® DOUBLE NOZZLE Ø 1.0 CP	
UPI0053C-10		1059.70000.003	PRIMA I.® DOUBLE NOZZLE Ø 1.0 CP-box 10 pcs.	
UPI0054C		1059.70000.008	PRIMA I.® DOUBLE NOZZLE Ø 1.25 CP	
UPI0054C-10		1059.70000.008	PRIMA I.® DOUBLE NOZZLE Ø 1.25 CP-box 10 pcs.	
UPI0055C		1059.70000.004	PRIMA I.® DOUBLE NOZZLE Ø 1.5 CP.	
UPI0055C-10		1059.70000.004	PRIMA I.® DOUBLE NOZZLE Ø 1.5 CP-box 10 pcs.	
UPI0056C		1059.70000.009	PRIMA I.® DOUBLE NOZZLE Ø 1.75 CP	
UPI0056C-10		1059.70000.009	PRIMA I.® DOUBLE NOZZLE Ø 1.75 CP-box 10 pcs.	
UPI0057C		1059.70000.005	PRIMA I.® DOUBLE NOZZLE Ø 2.0 CP	
UPI0057C-10		1059.70000.005	PRIMA I.® DOUBLE NOZZLE Ø 2.0 CP-box 10 pcs.	
UPI0058C		1059.70000.006	PRIMA I.® DOUBLE NOZZLE Ø 2.5 CP	
UPI0058C-10		1059.70000.006	PRIMA I.® DOUBLE NOZZLE Ø 2.5 CP-box 10 pcs.	
UPI0059C		1059.70000.007	PRIMA I.® DOUBLE NOZZLE Ø 3.0 CP	
UPI0059C-10		1059.70000.007	PRIMA I.® DOUBLE NOZZLE Ø 3.0 CP-box 10 pcs.	



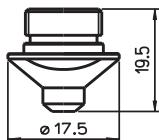
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0061			PRIMA I.® NOZZLE Ø 1.5	
UPI0062			PRIMA I.® NOZZLE Ø 2.0	



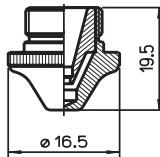
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0065C	LW6.1G.650		PRIMA I® NOZZLE Ø 3.0 CP	



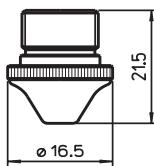
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0068C		LW6.1G.604	PRIMA I® NOZZLE Ø 1.5 CP	
UPI0068C-10		LW6.1G.604	PRIMA I® NOZZLE Ø 1.5 CP-box 10 pcs.	
UPI0069C			PRIMA I® NOZZLE Ø 1.75 CP	
UPI0069C-10			PRIMA I® NOZZLE Ø 1.75 CP-box 10 pcs.	
UPI0070C		LW6.1G.605	PRIMA I® NOZZLE Ø 2.0 CP	
UPI0070C-10		LW6.1G.605	PRIMA I® NOZZLE Ø 2.0 CP-box 10 pcs.	
UPI0071C		LW6.1G.606	PRIMA I® NOZZLE Ø 2.5 CP	
UPI0071C-10		LW6.1G.606	PRIMA I® NOZZLE Ø 2.5 CP-box 10 pcs.	
UPI0072C		LW6.1G.607	PRIMA I® NOZZLE Ø 3.0 CP	
UPI0072C-10		LW6.1G.607	PRIMA I® NOZZLE Ø 3.0 CP-box 10 pcs.	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0074			PRIMA I® NOZZLE Ø 1.0	
UPI0075		750.42.550	PRIMA I® NOZZLE Ø 1.5	
UPI0076		750.42.551	PRIMA I® NOZZLE Ø 2.0	
UPI0077		750.42.552	PRIMA I® NOZZLE Ø 2.5	
UPI0078		750.42.553	PRIMA I® NOZZLE Ø 3.0	
UPI0076C		750.42.551	PRIMA I® NOZZLE Ø 2.0 CP	



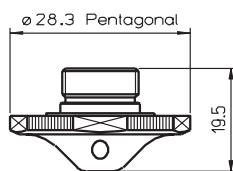
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0084C		520.17.111	PRIMA I® DOUBLE NOZZLE Ø 1.5 CP	
UPI0085C		520.17.114	PRIMA I® DOUBLE NOZZLE Ø 2.0 CP	
UPI0086C		750.43.560	PRIMA I® DOUBLE NOZZLE Ø 2.5 CP	
UPI0087C		750.43.561	PRIMA I® DOUBLE NOZZLE Ø 3.0 CP	



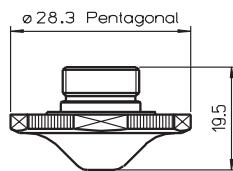
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0092C		787.04.513	PRIMA I.® NOZZLE Ø 2.0 CP	



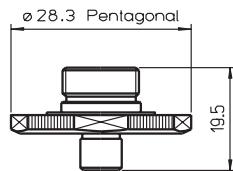
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0094		1058.36520.720	PRIMA I.® GASKET FOR LENS	



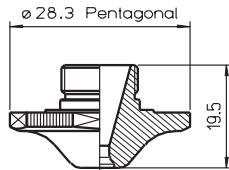
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0095C		LW6.1G.660	PRIMA I.® NOZZLE PENT Ø 0.8 CP	
UPI0096C		LW6.1G.661	PRIMA I.® NOZZLE PENT Ø 1.0 CP	
UPI0097C		LW6.1G.662	PRIMA I.® NOZZLE PENT Ø 1.25 CP	
UPI0098C		LW6.1G.663	PRIMA I.® NOZZLE PENT Ø 1.5 CP	
UPI0099C		LW6.1G.664	PRIMA I.® NOZZLE PENT Ø 1.75 CP	
UPI0100C		LW6.1G.665	PRIMA I.® NOZZLE PENT Ø 2.0 CP	
UPI0101C		LW6.1G.666	PRIMA I.® NOZZLE PENT Ø 2.25 CP	
UPI0102C		LW6.1G.667	PRIMA I.® NOZZLE PENT Ø 2.5 CP	
UPI0103C		LW6.1G.668	PRIMA I.® NOZZLE PENT Ø 2.75 CP	
UPI0104C		LW6.1G.669	PRIMA I.® NOZZLE PENT Ø 3.0 CP	
UPI0105C		LW6.1G.670	PRIMA I.® NOZZLE PENT Ø 3.5 CP	



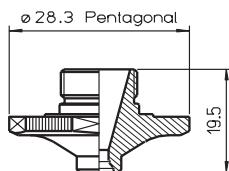
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0106C		LW6.1G.103	PRIMA I.® NOZZLE PENT Ø 1.5 CP	
UPI0107C		LW6.1G.105	PRIMA I.® NOZZLE PENT Ø 2.0 CP	
UPI0108C		LW6.1G.107	PRIMA I.® NOZZLE PENT Ø 2.5 CP	
UPI0109C		LW6.1G.109	PRIMA I.® NOZZLE PENT Ø 3.0 CP	



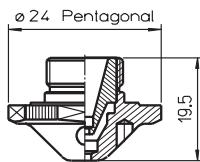
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0110C		LW6.1G.699	PRIMA I.® NOZZLE PENT Ø 1,5 CYL	
UPI0111C		LW6.1G.700	PRIMA I.® NOZZLE PENT Ø 2,0 CYL	
UPI0112C		LW6.1G.701	PRIMA I.® NOZZLE PENT Ø 2,5 CYL	
UPI0113C		LW6.1G.702	PRIMA I.® NOZZLE PENT Ø 3,0 CYL	



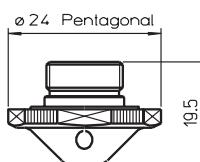
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0114C	LW6.1G.522a		PRIMA I.® NOZZLE PENT Ø 3-4.5 DL CP	



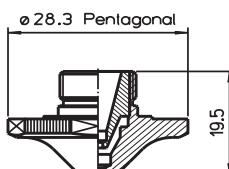
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0115C	LW6.1G.524		PRIMA I.® NOZZLE PENT Ø 3 DL CP	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0116C	LW6.1G.643		PRIMA I.® DOUBLE NOZZLE PENT Ø 1.5 CP	
UPI0116C-10	LW6.1G.643		PRIMA I.® DOUBLE NOZZLE PENT Ø 1.5 CP-box 10 pcs.	
UPI0117C	LW6.1G.645		PRIMA I.® DOUBLE NOZZLE PENT Ø 2.0 CP	
UPI0117C-10	LW6.1G.645		PRIMA I.® DOUBLE NOZZLE PENT Ø 2.0 CP-box 10 pcs.	
UPI0118C	LW6.1G.647		PRIMA I.® DOUBLE NOZZLE PENT Ø 2.5 CP	
UPI0118C-10	LW6.1G.647		PRIMA I.® DOUBLE NOZZLE PENT Ø 2.5 CP-box 10 pcs.	



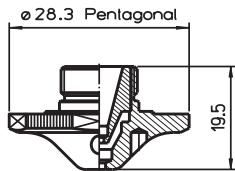
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0119C	LW6.1G.633		PRIMA I.® NOZZLE PENT Ø 1.5 CP	
UPI0119C-10	LW6.1G.633		PRIMA I.® NOZZLE PENT Ø 1.5 CP-box 10 pcs.	
UPI0120C	LW6.1G.635		PRIMA I.® NOZZLE PENT Ø 2.0 CP	
UPI0120C-10	LW6.1G.635		PRIMA I.® NOZZLE PENT Ø 2.0 CP-box 10 pcs.	
UPI0121C	LW6.1G.635		PRIMA I.® NOZZLE PENT Ø 2.5 CP	
UPI0121C-10	LW6.1G.635		PRIMA I.® NOZZLE PENT Ø 2.5 CP-box 10 pcs.	



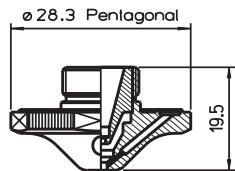
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0122C	LW6.1G.302		PRIMA I.® DOUBLE NOZZLE PENT Ø 1.25 CP	
UPI0123C	LW6.1G.303		PRIMA I.® DOUBLE NOZZLE PENT Ø 1.5 CP	
UPI0124C	LW6.1G.304		PRIMA I.® DOUBLE NOZZLE PENT Ø 1.75 CP	

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UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0125C		LW6.1G.305	PRIMA I.® DOUBLE NOZZLE PENT Ø 2.0 CP	
UPI0126C		LW6.1G.307	PRIMA I.® DOUBLE NOZZLE PENT Ø 2.5 CP	
UPI0127C		LW6.1E.204	PRIMA I.® DOUBLE NOZZLE PENT 25-20 CP	
UPI0128C		LW6.1G.309	PRIMA I.® DOUBLE NOZZLE PENT Ø 3.0 CP	
UPI0129C		LW6.1E.206	PRIMA I.® DOUBLE NOZZLE PENT 30-20 CP	
UPI0130C		LW6.1E.207	PRIMA I.® DOUBLE NOZZLE PENT 35-30 CP	
UPI0131		LW6.1G.200	PRIMA I.® DOUBLE NOZZLE PENT Ø 3.0	
UPI0132		LW6.1G.201	PRIMA I.® DOUBLE NOZZLE PENT Ø 3.5	
UPI0133		LW6.1G.202	PRIMA I.® DOUBLE NOZZLE PENT Ø 4.0	
UPI0134		LW6.1G.203	PRIMA I.® DOUBLE NOZZLE PENT Ø 5.0	
UPI0135		LW6.1G.204	PRIMA I.® DOUBLE NOZZLE PENT Ø 7.0	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0136C		LW6.1G.680	PRIMA I.® DOUBLE NOZZLE PENT Ø 0.8 CP	
UPI0137C		LW6.1G.681	PRIMA I.® DOUBLE NOZZLE PENT Ø 1.0 CP	
UPI0138C		LW6.1G.682	PRIMA I.® DOUBLE NOZZLE PENT Ø 1.25 CP	
UPI0139C		LW6.1G.683	PRIMA I.® DOUBLE NOZZLE PENT Ø 1.5 CP	
UPI0140C		LW6.1G.684	PRIMA I.® DOUBLE NOZZLE PENT Ø 1.75 CP	
UPI0141C		LW6.1G.685	PRIMA I.® DOUBLE NOZZLE PENT Ø 2.0 CP	
UPI0142C		LW6.1G.686	PRIMA I.® DOUBLE NOZZLE PENT Ø 2.25 CP	
UPI0143C		LW6.1G.687	PRIMA I.® DOUBLE NOZZLE PENT Ø 2.5 CP	
UPI0144C		LW6.1G.688	PRIMA I.® DOUBLE NOZZLE PENT Ø 2.75 CP	
UPI0145C		LW6.1G.689	PRIMA I.® DOUBLE NOZZLE PENT Ø 3.0 CP	
UPI0146		LW6.1G.800	PRIMA I.® DOUBLE NOZZLE BRILLIANT Ø 3.0	
UPI0147		LW6.1G.801	PRIMA I.® DOUBLE NOZZLE BRILLIANT Ø 3.5	
UPI0148		LW6.1G.802	PRIMA I.® DOUBLE NOZZLE BRILLIANT Ø 4.0	
UPI0149		LW6.1G.803	PRIMA I.® DOUBLE NOZZLE BRILLIANT Ø 5.0	
UPI0150		LW6.1G.804	PRIMA I.® DOUBLE NOZZLE BRILLIANT Ø 7.0	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPI0151C		LW6.1G.627	PRIMA I.® TRIPLE NOZZLE PENT Ø 1.25 CP	
UPI0152C		LW6.1G.620	PRIMA I.® TRIPLE NOZZLE PENT Ø 1.5 CP	
UPI0153C		LW6.1G.621	PRIMA I.® TRIPLE NOZZLE PENT Ø 1.75 CP	
UPI0154C		LW6.1G.622	PRIMA I.® TRIPLE NOZZLE PENT Ø 2.0 CP	
UPI0156C		LW6.1G.624	PRIMA I.® TRIPLE NOZZLE PENT Ø 2.5 CP	
UPI0158C		LW6.1G.626	PRIMA I.® TRIPLE NOZZLE PENT Ø 3.0 CP	

**LENSES II-VI FOR PRIMA INDUSTRIE®**

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UL621644M			IIVI LENS Ø 1.5" - FL 5.0" - ET 9.0MM MEN	
UL698637M			IIVI LENS Ø 1.5" - FL 7.5" - ET 9.0MM MEN	
UL123397M			IIVI LENS Ø 1.5" - FL 5.0" - ET 9.0MM MP5 MEN	
UL602033M			IIVI LENS Ø 1.5" - FL 7.5" - ET 9.0MM MP5 MEN	

**FIBER LENSES II-VI FOR PRIMA INDUSTRIE®**

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UL968988PVL		1057.81000.070	IIVI LENS FS PO/CX 38.1MM DIAM 127MM @ 1070NM	
UL968987PH		1057.81000.071	IIVI LENS FS PO/CX LENS 38.1 MM DIA 190MM 1064NM	

**WINDOWS II-VI FOR PRIMA INDUSTRIE®**

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPW0006II		1057.81000.127	IIVI WINDOW 36MM DIA X 5 MM ET	
UPW0008II		1057.81000.089	IIVI WINDOW 35 MM X 1.5 MM	
UPW0019II		1057.81000.058	IIVI WINDOW 30.0MM DIA, 1.50MM ET	
UPW0020II		1057.81000.085	IIVI WINDOW WI25.4-3.OFS	

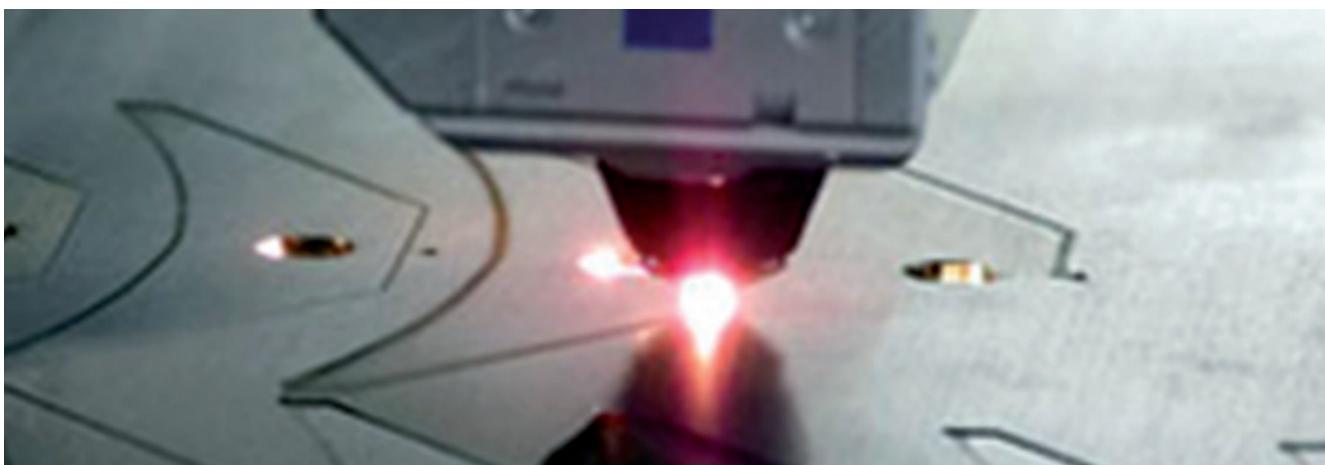
**WINDOWS FOR PRIMA INDUSTRIE®**

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPW0006		1057.81000.127	WINDOW 36MM DIA X 5 MM ET	
UPW0008		1057.81000.089	WINDOW 35 MM X 1.5 MM	
UPW0019		1057.81000.058	WINDOW 30.0MM DIA, 1.50MM ET	
UPW0020		1057.81000.085	WINDOW WI25.4-3.OFS	

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UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
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