

*L'utensileria per chi lavora la lamiera*

# Ricambi e Ottiche per Macchine a taglio Laser



Accessori UPT

AMADA

BLM

BYSTRONIC

CY LASER

LVD

MAZAK

MITSUBISHI

PRECITEC

PRIMA

SALVAGNINI

TRUMPF

e altro su richiesta



STRUMENTI AVANZATI - SOFTWARE  
PUNZONATURA - TAGLIO - PIEGATURA

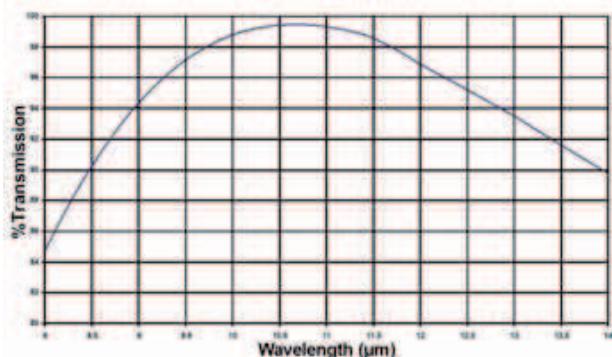
[www.uptitalia.it](http://www.uptitalia.it)

## 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



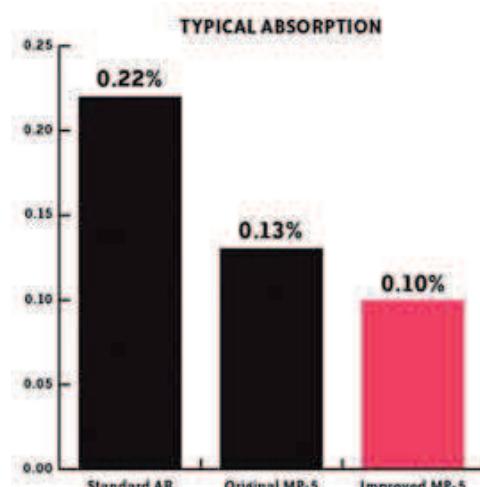
## COATING ANTIRIFLESSO A BASSO ASSORBIMENTO - MP5-AR

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:



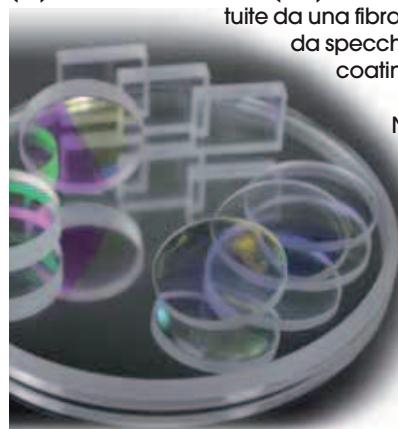
SILVER BASED	GOLD BASED	MAXIMUM METAL REFLECTOR	PHASE RETARDING	POLARIZATION CONTROL
PS	BG	MMR	TRZ	ATFR
ES	PG	MMR-A	RPR	PLM
	EG	DEMMR	HRPR	

## 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.



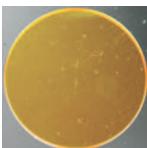
I residui delle lavorazioni accumulati sulla lente, se non vengono rimossi con operazioni costanti di pulizia, a lungo andare innescano il fenomeno dello stress termico. Lo stress altera le caratteristiche del fascio laser trasmesso determinando fluttuazioni diminuzioni di potenza e inducendo lo spostamento 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

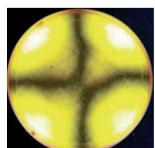
LSA Mini è l' evoluzione, portatile, economica e rapida, di LSA. Seguendo le semplici istruzioni di seguito, potrai velocemente capire, se la lente ha accusato lo stress termico, che può alterare le caratteristiche necessarie al corretto funzionamento della stessa".

### Come usare LSA MINI:

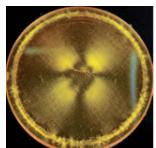
1. Trova lo schermo di computer più vicino
2. Aggancia il Mini LSA sul telefono, rivolto verso l'esterno e accendi la fotocamera.
3. Posiziona la lente, di fronte lo schermo. Ruota il telefono di fronte alla lente.
4. Ruotando il telefono, l' incrociare della polarizzazione, con la luce fluorescente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



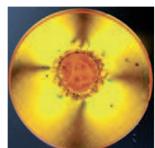
Nessun stress apparente.  
Potrebbe bastare la pulizia della lente



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



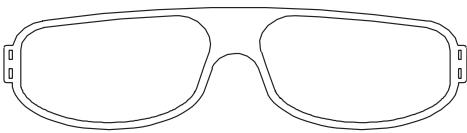
## SOFFIETTI PER LASER

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.

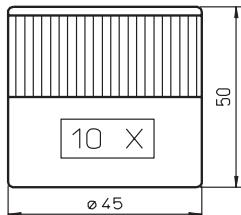
### SOFFIETTI PER CREMAGLIERA DI RICAMBIO DELLE PRINCIPALI MARCHE DI MACCHINE TAGLIO LASER

- 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

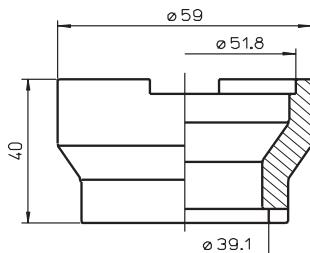




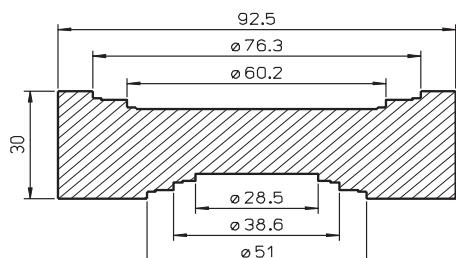
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0001			ACC. LASER CO2 GLASSES CE APPROVED	
UAC0002		240568 - 100	ACC. LENS CLEANING POLISH - ml 100	
UAC0003		240568 - 200	ACC. LENS CLEANING POLISH - ml 200	
UAC0004			ACC. DROPPER FOR LENS CLEANING LIQUID	
UAC0005			ACC. LATEX GLOVES - 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	



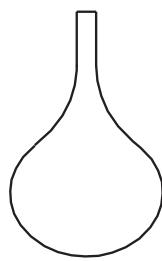
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0012		091860	ACC. SCALE LUPE	



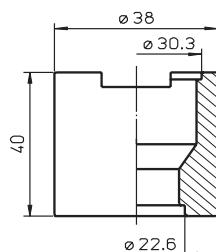
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0013			ACC. BASE FOR LENS MAINTENANCE	



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>	

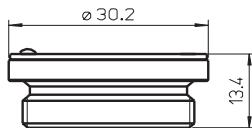
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>ST-3310K</b>			<b>AIR SPEED HAMMER completo di 6 TAMPONI</b>	

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

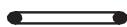
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>LSAMINI</b>			<b>LSA MINI LENS STRESS ANALYZER</b>	

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

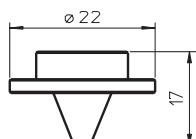
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
<b>LCK5358332</b>			<b>II-VI KIT PULIZIA LENTI FIBRA</b>	



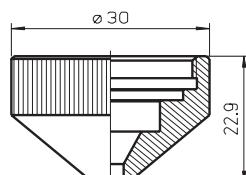
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPR0218		P0594-860-00001 - 71800010	PRECITEC® NOZZLE HOLDER IT HP2" MZP/MEL	



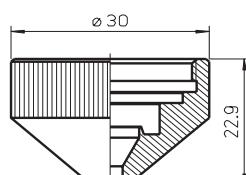
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0001		W290-71800107	MITSUBISHI® O-RING	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0002			MITSUBISHI® INNER NOZZLE 1.5 - 3 HOLES	
UMI0003			MITSUBISHI® INNER NOZZLE 2.0 - 3 HOLES	
UMI0004	W390		MITSUBISHI® INNER NOZZLE 1.3 - 4 HOLES	
UMI0005			MITSUBISHI® INNER NOZZLE 1.5 - 4 HOLES	
UMI0006			MITSUBISHI® INNER NOZZLE 2.0 - 4 HOLES	
UMI0008			MITSUBISHI® INNER NOZZLE 1.5 - 6 HOLES	
UMI0009			MITSUBISHI® INNER NOZZLE 2.0 - 6 HOLES	
UMI0010	W270		MITSUBISHI® INNER NOZZLE 1.3 - 8 HOLES	
UMI0011	71800023 - BQ943D156H01/W270-1.5		AMADA® - MITSUBISHI® INNER NOZZLE 1.5 - 8 HOLES	
UMI0012			AMADA® - MITSUBISHI® INNER NOZZLE 2.0 - 8 HOLES	
UMI0013	W387		MITSUBISHI® INNER NOZZLE 1.3 - 12 HOLES	
UMI0014	W388		MITSUBISHI® INNER NOZZLE 1.3 - 16 HOLES	
UMI0015	W389		MITSUBISHI® INNER NOZZLE 1.3 - 20 HOLES	
UMI0016	W515		MITSUBISHI® INNER NOZZLE 1.5 - 24 HOLES	
UMI0017	71800024 - BQ943D156H03		AMADA® - MITSUBISHI® INNER NOZZLE 1.5 - 24 HOLES	
UMI0018			AMADA® - MITSUBISHI® INNER NOZZLE 2.0 - 24 HOLES	



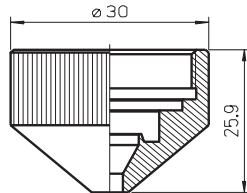
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0019			AMADA® - MITSUBISHI® SHIELD CAP SHORT W/O STEP	
UMI0019C			AMADA® - MITSUBISHI® SHIELD CAP SHORT W/O STEP CP	



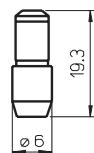
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0020			MITSUBISHI® OUTER NOZZLE 1.2	
UMI0021			MITSUBISHI® OUTER NOZZLE 1.5	

UPT srl is not affiliated with the named manufacturers. Reference to machines, parts, descriptions, and model numbers are for convenience in verifying compatibility only. All parts are made by or for UPT srl and are not made by the reference manufacturers (unless expressly indicated). All other trademarks are the properties of their respective owners."

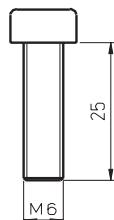
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0022			MITSUBISHI® OUTER NOZZLE 1.7	
UMI0023			MITSUBISHI® OUTER NOZZLE 2.0	
UMI0024			MITSUBISHI® OUTER NOZZLE 2.3	
UMI0025			MITSUBISHI® OUTER NOZZLE 2.5	
UMI0026			MITSUBISHI® OUTER NOZZLE 3.0	
UMI0027			MITSUBISHI® OUTER NOZZLE 3.5	
UMI0028			AMADA® - MITSUBISHI® SHIELD CAP SHORT	
UMI0028C			AMADA® - MITSUBISHI® SHIELD CAP SHORT CP	



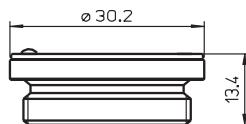
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0029			MITSUBISHI® DOUBLE NOZZLE TIP	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAM0217			AMADA® SAFETY PIN	



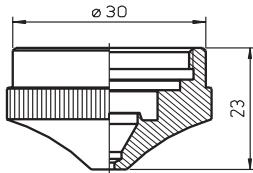
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAM0218		71800008 - L249OA005	AMADA® SAFETY SCREW	



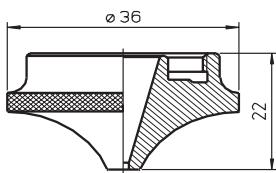
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPR0218		P0594-860-00001 - 71800010	PRECITEC® NOZZLE HOLDER IT HP2" MZP/MEL	



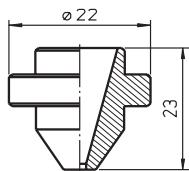
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0001		W290-71800107	MITSUBISHI® O-RING	



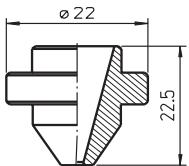
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0031			AMADA® - MITSUBISHI® OUTER NOZZLE Ø 2.0	
UMI0032			AMADA® - MITSUBISHI® OUTER NOZZLE Ø 2.5	
UMI0033			AMADA® - MITSUBISHI® OUTER NOZZLE Ø 3.0	
UMI0034			AMADA® - MITSUBISHI® OUTER NOZZLE Ø 4.0	



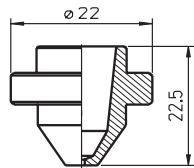
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAM0216		7180015400 - BQ023D020H01	AMADA® NOZZLE HIGH SPEED PIERCE Ø 1.7	



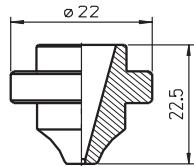
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0038			MITSUBISHI® NOZZLE Ø 1.0	
UMI0039	W777		MITSUBISHI® NOZZLE Ø 1.2	
UMI0040	W266		MITSUBISHI® NOZZLE Ø 1.5	
UMI0041	W267		MITSUBISHI® NOZZLE Ø 2.0	
UMI0042	W776		MITSUBISHI® NOZZLE Ø 2.5	
UMI0043	W268		MITSUBISHI® NOZZLE Ø 3.0	
UMI0044	W268-3.5		MITSUBISHI® NOZZLE Ø 3.5	



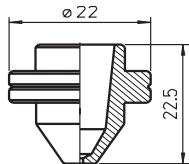
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0045	71800018 - BQ943D157H01		AMADA® - MITSUBISHI® NOZZLE Ø 1.5	
UMI0046	71800019 - BQ943D157H02		AMADA® - MITSUBISHI® NOZZLE Ø 2.0	
UMI0047	71800020 - BQ943D157H03		AMADA® - MITSUBISHI® NOZZLE Ø 2.5	
UMI0048	71800021 - BQ943D157H04		AMADA® - MITSUBISHI® NOZZLE Ø 3.0	
UMI0049	71800022 - BQ943D596H01		AMADA® - MITSUBISHI® NOZZLE Ø 3.5	
UMI0050	0		AMADA® - MITSUBISHI® NOZZLE Ø 4.0	



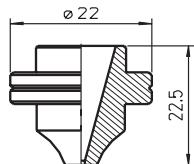
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0051		71800016-BQ943D897H01-W18Q94389701	AMADA® - MITSUBISHI® HV NOZZLE Ø 1.0	
UMI0052		W18Q93309101	AMADA® - MITSUBISHI® HV NOZZLE Ø 2.5	
UMI0053		W18Q93309102	AMADA® - MITSUBISHI® HV NOZZLE Ø 3.0	



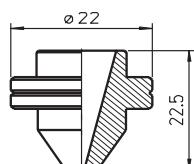
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0054		71800016A0-BQ933D283H01	AMADA® - MITSUBISHI® NOZZLE Ø 1.0 WITH RADIUS NO GROOVE	



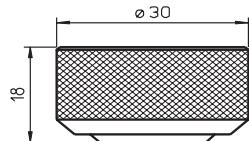
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0055			MITSUBISHI® NOZZLE Ø 1.0	
UMI0056			MITSUBISHI® NOZZLE Ø 1.2	
UMI0057			MITSUBISHI® NOZZLE Ø 1.5	
UMI0058			MITSUBISHI® NOZZLE Ø 1.7	
UMI0059			MITSUBISHI® NOZZLE Ø 2.0	
UMI0060			MITSUBISHI® NOZZLE Ø 2.5	



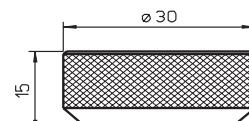
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0061		71800017-BQ943D269H01-W18Q93326901	AMADA® - MITSUBISHI® HV NOZZLE Ø 1.2 WITH RADIUS	



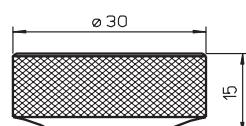
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0062		W18Q93302701	AMADA® - MITSUBISHI® HV NOZZLE Ø 1.7	



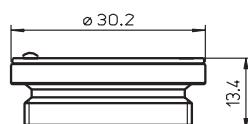
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0063	W263		MITSUBISHI® NOZZLE NUT	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0064	P0593-865-00001		MITSUBISHI® NOZZLE NUT SHORT	



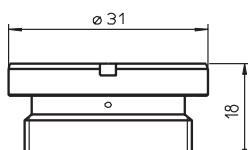
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0065	71800026 - BQ933D94H01		AMADA® - MITSUBISHI® NOZZLE NUT SHORT	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPR0218	P0594-860-00001 - 71800010		PRECITEC® NOZZLE HOLDER IT HP2" MZP/MEL	

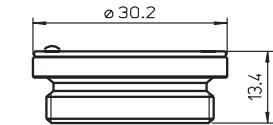


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0001	W290-71800107		MITSUBISHI® O-RING	

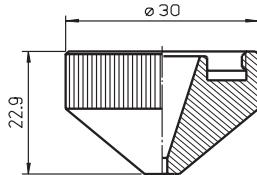


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0066	P0461-230-00001 - W830		MITSUBISHI® NOZZLE HOLDER IT461	

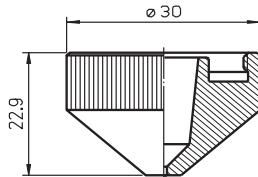
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPR0218		P0594-860-00001 - 71800010	PRECITEC® NOZZLE HOLDER IT HP2" MZP/MEL	



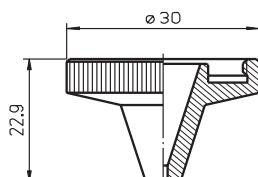
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0067		W1249	MITSUBISHI® SHIELD NOZZLE Ø 1.0	
UMI0068		W1256	MITSUBISHI® SHIELD NOZZLE Ø 1.2	
UMI0069		W1250	MITSUBISHI® SHIELD NOZZLE Ø 1.5	
UMI0070		W1251	MITSUBISHI® SHIELD NOZZLE Ø 2.0	
UMI0071		W1252	MITSUBISHI® SHIELD NOZZLE Ø 2.5	
UMI0072		W1253	MITSUBISHI® SHIELD NOZZLE Ø 3.0	
UMI0073		W1254	MITSUBISHI® SHIELD NOZZLE Ø 3.5	
UMI0074		W1255	MITSUBISHI® SHIELD NOZZLE Ø 4.0	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0075		W1626	MITSUBISHI® NOZZLE Ø 1.0	
UMI0076		W1627	MITSUBISHI® NOZZLE Ø 1.2	
UMI0077			MITSUBISHI® NOZZLE Ø 1.4	
UMI0078		W1628	MITSUBISHI® NOZZLE Ø 1.5	
UMI0079		W1661	MITSUBISHI® NOZZLE Ø 1.7	
UMI0080		W1629	MITSUBISHI® NOZZLE Ø 2.0	
UMI0081		W1630	MITSUBISHI® NOZZLE Ø 2.5	
UMI0082		W1664	MITSUBISHI® NOZZLE Ø 3.0	
UMI0083		W1665	MITSUBISHI® NOZZLE Ø 3.5	
UMI0084		W1666	MITSUBISHI® NOZZLE Ø 4.0	
UMI0085		W1662	MITSUBISHI® NOZZLE Ø 4.5	
UMI0086		W1663	MITSUBISHI® NOZZLE Ø 5.0	
UMI0075C		W1626	MITSUBISHI® NOZZLE Ø 1.0 CP	
UMI0076C		W1627	MITSUBISHI® NOZZLE Ø 1.2 CP	
UMI0078C		W1628	MITSUBISHI® NOZZLE Ø 1.5 CP	
UMI0079C		W1661	MITSUBISHI® NOZZLE Ø 1.7 CP	
UMI0080C		W1629	MITSUBISHI® NOZZLE Ø 2.0 CP	
UMI0081C		W1630	MITSUBISHI® NOZZLE Ø 2.5 CP	
UMI0082C		W1664	MITSUBISHI® NOZZLE Ø 3.0 CP	
UMI0083C		W1665	MITSUBISHI® NOZZLE Ø 3.5 CP	
UMI0084C		W1666	MITSUBISHI® NOZZLE Ø 4.0 CP	



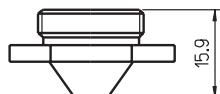
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0087		W1626B	MITSUBISHI® NOZZLE Ø 1.0 LOW PRESSURE	
UMI0088		W1627B	MITSUBISHI® NOZZLE Ø 1.2 LOW PRESSURE	
UMI0089		W1628B	MITSUBISHI® NOZZLE Ø 1.5 LOW PRESSURE	
UMI0090		W1629B	MITSUBISHI® NOZZLE Ø 2.0 LOW PRESSURE	
UMI0093		W1665B	MITSUBISHI® NOZZLE Ø 3.5 LOW PRESSURE	
UMI0094		W1666B	MITSUBISHI® NOZZLE Ø 4.0 LOW PRESSURE	



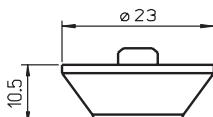
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0095		NCW1626C	MITSUBISHI® NOZZLE Ø 1.0 NARROW CONE	
UMI0096		NCW1627C	MITSUBISHI® NOZZLE Ø 1.2 NARROW CONE	
UMI0097		NCW1629C	MITSUBISHI® NOZZLE Ø 2.0 NARROW CONE	
UMI0098		NCW1630C	MITSUBISHI® NOZZLE Ø 2.5 NARROW CONE	



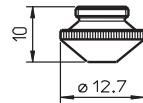
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0001		W290-71800107	MITSUBISHI® O-RING	



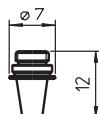
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0099			MITSUBISHI® NOZZLE Ø 1.0	
UMI0100		W001	MITSUBISHI® NOZZLE Ø 1.5	
UMI0101		W002	MITSUBISHI® NOZZLE Ø 2.0	



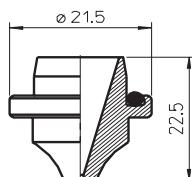
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPR0180		281079-P0492-430-00003-W149	PRECITEC® ORIG. NOZZLE HOLDER KT M1.5" S F2.5	



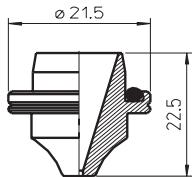
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPR0181-10		280013-P0492-441-00008	PRECITEC® FP NOZZLE Ø 0.8-box 10 pcs.	
UPR0182		280014-P0492-442-00010-W223	PRECITEC® FP NOZZLE Ø 1.0	
UPR0182-10		280014-P0492-442-00010-W223	PRECITEC® FP NOZZLE Ø 1.0-box 10 pcs.	
UPR0183-10		280015-P0492-443-00012	PRECITEC® FP NOZZLE Ø 1.2-box 10 pcs.	
UPR0184		280016-P0492-444-00015-W224	PRECITEC® FP NOZZLE Ø 1.5	
UPR0184-10		280016-P0492-444-00015-W224	PRECITEC® FP NOZZLE Ø 1.5-box 10 pcs.	
UPR0185-10		P0492-447-00018	PRECITEC® FP NOZZLE Ø 1.8-box 10 pcs.	
UPR0186		280937-P0492-445-00020-W225	PRECITEC® FP NOZZLE Ø 2.0	
UPR0186-10		280937-P0492-445-00020-W225	PRECITEC® FP NOZZLE Ø 2.0-box 10 pcs.	
UPR0187-10		P0492-448-00023	PRECITEC® FP NOZZLE Ø 2.3-box 10 pcs.	
UPR0188		281791-P0492-446-00025-W226	PRECITEC® FP NOZZLE Ø 2.5	
UPR0188-10		281791-P0492-446-00025-W226	PRECITEC® FP NOZZLE Ø 2.5-box 10 pcs.	
UPR0189			PRECITEC® FP NOZZLE Ø 3.0	
UPR0189-10			PRECITEC® FP NOZZLE Ø 3.0-box 10 pcs.	
UPR0182C-10		280014-P0492-442-00010-W223	PRECITEC® FP NOZZLE Ø 1.0 CP-box 10 pcs.	
UPR0183C-10			PRECITEC® FP NOZZLE Ø 1.2 CP-box 10 pcs.	



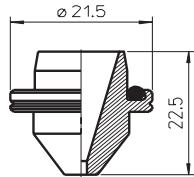
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0104		P0352-377-00018	MITSUBISHI® NOZZLE Ø 1.8 – DE M1.5" 1.8H	



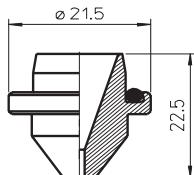
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0105		BQ983D150-H01	MITSUBISHI® NOZZLE Ø 1.0 W/o-ring	
UMI0106		BQ983D314-H01	MITSUBISHI® NOZZLE Ø 1.4 W/o-ring	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0107		BQ983D151-H01	MITSUBISHI® NOZZLE Ø 1.2 W/o-ring	



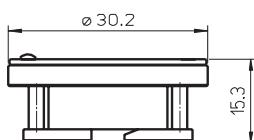
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0108		BQ983D152-H01	MITSUBISHI® NOZZLE Ø 1.7 W/o-ring	



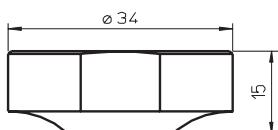
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0109		BQ983D153-H01	MITSUBISHI® NOZZLE Ø 1.5 W/o-ring	
UMI0110		BQ983D153-H02	MITSUBISHI® NOZZLE Ø 2.0 W/o-ring	
UMI0111		BQ983D153-H03	MITSUBISHI® NOZZLE Ø 2.5 W/o-ring	
UMI0112		BQ983D153-H04	MITSUBISHI® NOZZLE Ø 3.0 W/o-ring	
UMI0113		BQ983D153-H05	MITSUBISHI® NOZZLE Ø 3.5 W/o-ring	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0114		0	MITSUBISHI® O-RING FOR NOZZLE	

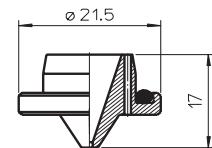


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0115		BQ980D311G02	MITSUBISHI® EX NOZZLE HOLDER STAINLESS STEEL	

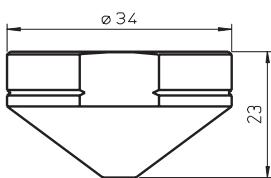


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0116		BQ980D328G01	MITSUBISHI® EX OUTER NOZZLE FOR SINGLE NOZZLE	

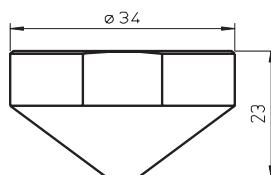
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0117			MITSUBISHI® EX INNER NOZZLE 1,5 - 3 HOLES - W/o-ring	
UMI0118			MITSUBISHI® EX INNER NOZZLE 1,5 - 4 HOLES - W/o-ring	
UMI0119			MITSUBISHI® EX INNER NOZZLE 1,5 - 6 HOLES - W/o-ring	
UMI0120	BQ983D206H03		MITSUBISHI® EX INNER NOZZLE 1,5 - 8 HOLES W/o-ring	
UMI0121	BQ983D206H04		MITSUBISHI® EX INNER NOZZLE 1,5 - 24 HOLES W/o-ring	
UMI0122			MITSUBISHI® EX INNER NOZZLE 2,0 - 3 HOLES - W/o-ring	
UMI0123			MITSUBISHI® EX INNER NOZZLE 2,0 - 4 HOLES - W/o-ring	
UMI0124			MITSUBISHI® EX INNER NOZZLE 2,0 - 6 HOLES - W/o-ring	



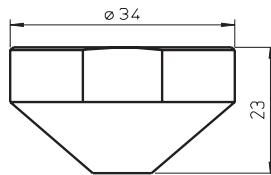
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0125	0		MITSUBISHI® EX OUTER NOZZLE 1,5 FOR THICK MATERIAL	
UMI0126			MITSUBISHI® EX OUTER NOZZLE 2,0 FOR THICK MATERIAL	
UMI0127			MITSUBISHI® EX OUTER NOZZLE 2,5 FOR THICK MATERIAL	
UMI0128			MITSUBISHI® EX OUTER NOZZLE 3,0 FOR THICK MATERIAL	
UMI0129			MITSUBISHI® EX OUTER NOZZLE 3,5 FOR THICK MATERIAL	
UMI0130	BQ980D434G01		MITSUBISHI® EX OUTER NOZZLE 4,0 FOR THICK MATERIAL	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0131	BQ980D442G03		MITSUBISHI® EX OUTER NOZZLE Ø 4,0 MM	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UMI0132	BQ980D442G01		MITSUBISHI® EX OUTER NOZZLE Ø 7.0 MM	



**LENSES II-VI FOR MITSUBISHI®**

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UL304725P			IIIVI LENS Ø 2.0" - FL 5.0" - ET 7.87MM PO/CX	
UL892020P			IIIVI LENS Ø 2.0" - FL 7.5" - ET 7.87MM PO/CX	

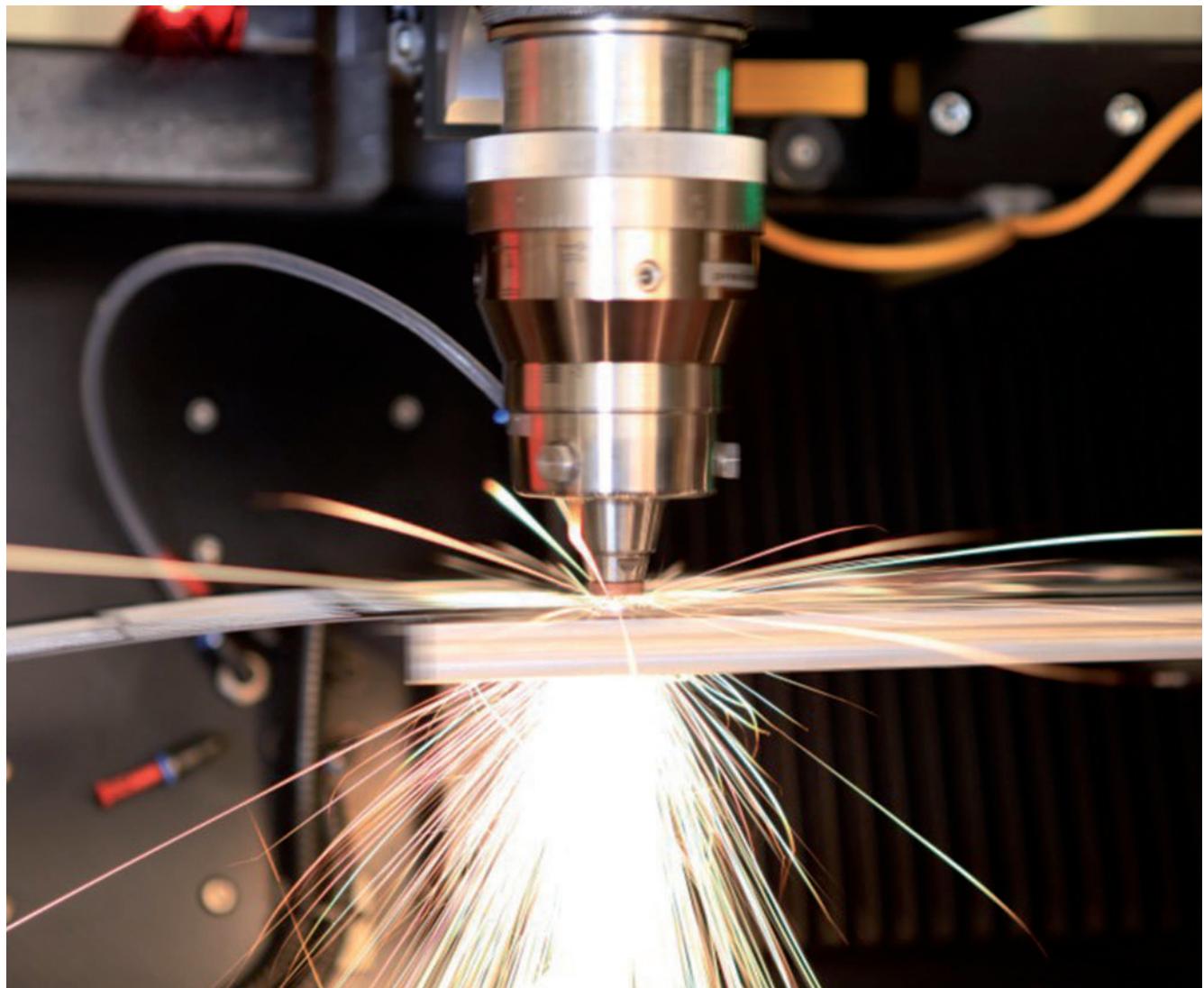
**WINDOWS II-VI FOR MITSUBISHI®**

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPW0018II			IIIVI WINDOW 50.0MM DIA, 8.00MM ET	

**WINDOWS FOR MITSUBISHI®**

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPW0018			WINDOW 50.0MM DIA, 8.00MM ET	

UPT srl può fornire oltre a ugelli, ceramiche e ottiche (lenti, specchi, vetrini di protezione) soffietti, filtri aria, filtri acqua, filtri aspirazione, oli e liquidi vari.





STRUMENTI AVANZATI - SOFTWARE  
PUNZONATURA - TAGLIO - PIEGATURA

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

- ✓ Lame per Cesorie
- ✓ Lame per Scantonatrici
- ✓ Utensili per Presse Piegatrici
- ✓ Utensili Speciali
- ✓ Utensili per Punzonatrici
- ✓ Ricambi Laser
- ✓ Ricambi Plasma
- ✓ Stampi per Presse
- ✓ Attrezzature
- ✓ Software



*L'utensileria per chi lavora la lamiera*



UPT S.r.l.: 25015 DESENZANO DEL GARDA (BS) - VIA MARCONI, 133  
TEL. 030 9120781 - 030 9993287 FAX 030 9991532 E-mail: [info@uptitalia.it](mailto:info@uptitalia.it)