

L'utensileria per chi lavora la lamiera

Ricambi e Ottiche per Macchine taglio Laser

Accessori UPT

AMADA

BLM

BYSTRONIC

CY LASER

LVD

MAZAK

MITSUBISHI

PRECITEC

PRIMA

SALVAGNINI

TRUMPF

e altro su richiesta

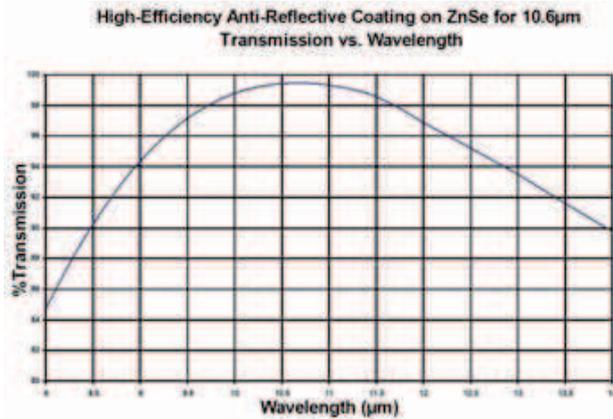


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COATING ANTIRIFLESSO - AR

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).



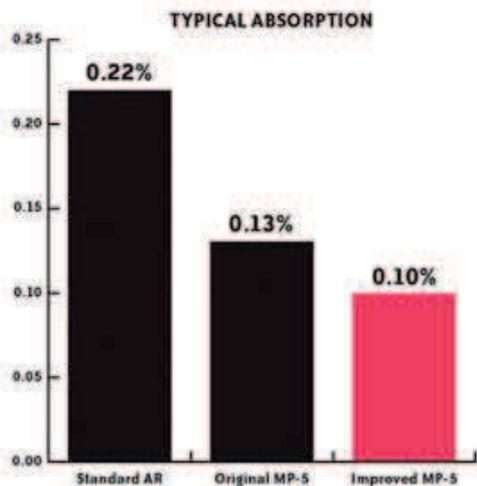
COATING ANTIRIFLESSO A BASSO ASSORBIMENTO - MP5-AR

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, sferici, 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:



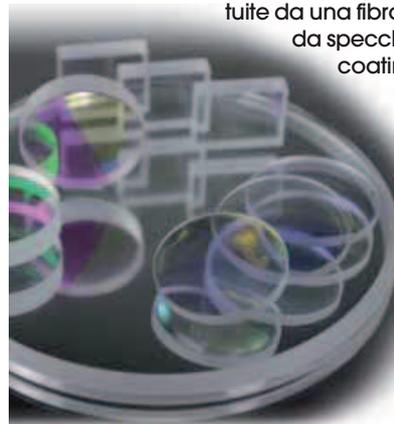
SILVER BASED	GOLD BASED	MAXIMUM METAL REFLECTOR	PHASE RETARDING	POLARIZATION CONTROL
PS	BG	MMR	TRZ	ATFR
ES	PG	MMR-A	RPR	PLM
	EG	DEMRR	HRPR	

LASER IN FIBRA LENTI E FINESTRE DI PROTEZIONE

I laser in fibra si stanno diffondendo come valida alternativa ai tradizionali laser CO₂, soprattutto per particolari applicazioni (taglio di bassi spessori) e per particolari materiali ad alta riflettività (rame, ottone).

La principale differenza ottica tra i laser CO₂ e i laser in fibra è la lunghezza d'onda della radiazione emessa: 10.6 μm per il CO₂ 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.



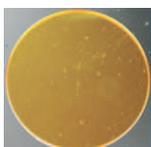
I residui delle lavorazioni accumulati sulla lente, se non vengono rimossi con operazioni costanti di pulizia, a lungo andare innescano il fenomeno dello stress termico. Lo stress altera le caratteristiche del fascio laser trasmesso determinando fluttuazioni e diminuzioni di potenza e inducendo lo spostamento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

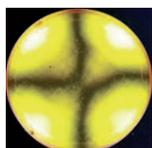
LSA Mini è l'evoluzione, portatile, economica e rapida, di LSA. Seguendo le semplici istruzioni di seguito, potrai velocemente capire, se la lente ha accusato lo stress termico, che può alterare le caratteristiche necessarie al corretto funzionamento della stessa".

Come usare LSA MINI:

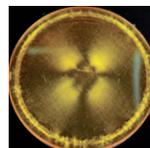
1. Trova lo schermo di computer più vicino
2. Aggancia il Mini LSA sul telefono, rivolto verso l'esterno e accendi la fotocamera.
3. Posiziona la lente, di fronte lo schermo. Ruota il telefono di fronte alla lente.
4. Ruotando il telefono, l'incrocio della polarizzazione, con la luce fluorescente del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



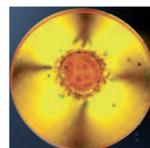
Nessun stress apparente. Potrebbe bastare la pulizia della lente



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 CO² 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



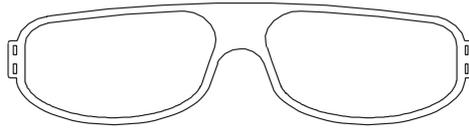
SOFFIETTI PER LASER

UPT surl 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.

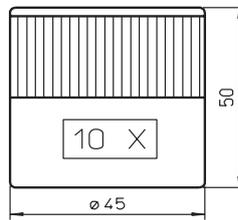
SOFFIETTI PER CREMAGLIERA DI RICAMBIO DELLE PRINCIPALI MARCHE DI MACCHINE TAGLIO LASER

- 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

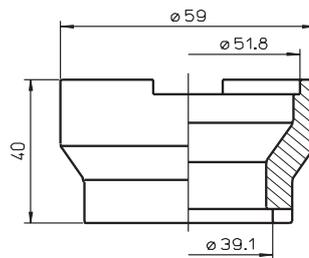




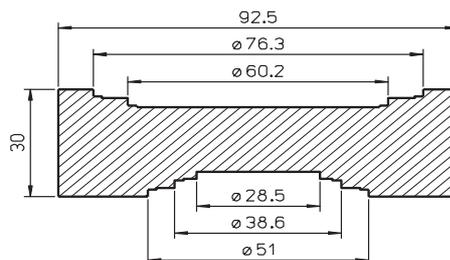
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0001			ACC. LASER CO2 GLASSES CE APPROVED	
UAC0002		240568 - 100	ACC. LENS CLEANING POLISH - ml 100	
UAC0003		240568 - 200	ACC. LENS CLEANING POLISH - ml 200	
UAC0004			ACC. DROPPER FOR LENS CLEANING LIQUID	
UAC0005			ACC. LATEX GLOVES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



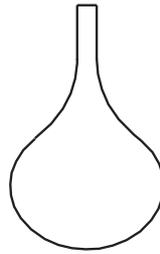
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0012		091860	ACC. SCALE LUPE	



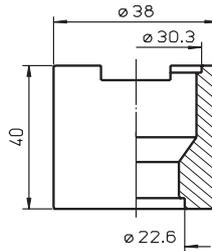
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UAC0013			ACC. BASE FOR LENS MAINTENANCE	



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
UAC0015			ACC. INJECTOR	



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

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

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

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

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

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

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
LSA002W			II-VI LENS STRESS ANALYZER	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
LSAMINI			LSA MINI LENS STRESS ANALYZER	

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

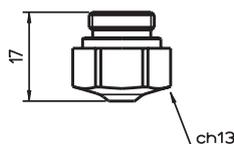
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
LCK5358332			II-VI KIT PULIZIA LENTI FIBRA	



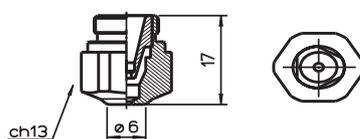
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0001		3-04277 HK08	BYSTRONIC® NOZZLE Ø 0.8 HD	
UBY0001-10		3-04277 HK08	BYSTRONIC® NOZZLE Ø 0.8 HD-box 10 pcs.	
UBY0002		3-01910 HK10	BYSTRONIC® NOZZLE Ø 1.0 HD	
UBY0002-10		3-01910 HK10	BYSTRONIC® NOZZLE Ø1.0 HD-box 10 pcs.	
UBY0003		3-01911 HK12	BYSTRONIC® NOZZLE Ø 1.25 HD	
UBY0003-10		3-01911 HK12	BYSTRONIC® NOZZLE Ø1.25 HD-box 10 pcs.	
UBY0004		3-01912 HK15	BYSTRONIC® NOZZLE Ø 1.5 HD	
UBY0004-10		3-01912 HK15	BYSTRONIC® NOZZLE Ø1.5 HD-box 10 pcs.	
UBY0005		3-01913 HK17	BYSTRONIC® NOZZLE Ø 1.75 HD	
UBY0005-10		3-01913 HK17	BYSTRONIC® NOZZLE Ø1.75 HD-box 10 pcs.	
UBY0002C		3-01910 HK10	BYSTRONIC® NOZZLE Ø 1.0 HD CP	
UBY0002C-10		3-01910 HK10	BYSTRONIC® NOZZLE Ø1.0 HD CP-box 10 pcs.	
UBY0003C		3-01911 HK12	BYSTRONIC® NOZZLE Ø 1.25 HD CP	
UBY0003C-10		3-01911 HK12	BYSTRONIC® NOZZLE Ø1.25 HD CP-box 10 pcs.	
UBY0004C		3-01912 HK15	BYSTRONIC® NOZZLE Ø 1.5 HD CP	
UBY0004C-10		3-01912 HK15	BYSTRONIC® NOZZLE Ø 1.5 HD CP-box 10 pcs.	
UBY0005C		3-01913 HK17	BYSTRONIC® NOZZLE Ø 1.75 HD CP	
UBY0005C-10		3-01913 HK17	BYSTRONIC® NOZZLE Ø1.75 HD CP-box 10 pcs.	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0006		3-01914 HK20	BYSTRONIC® NOZZLE Ø 2.0 HD	
UBY0006-10		3-01914 HK20	BYSTRONIC® NOZZLE Ø2.0 HD-box 10 pcs.	
UBY0007		3-03854 HK25	BYSTRONIC® NOZZLE Ø 2.5 HD	
UBY0007-10		3-03854 HK25	BYSTRONIC® NOZZLE Ø2.5 HD-box 10 pcs.	
UBY0008		3-06112 HK30	BYSTRONIC® NOZZLE Ø 3.0 HD	
UBY0008-10		3-06112 HK30	BYSTRONIC® NOZZLE Ø3.0 HD-box 10 pcs.	
UBY0009-10		HK35	BYSTRONIC® NOZZLE Ø3.5 HD-box 10 pcs.	
UBY0010-10		HK40	BYSTRONIC® NOZZLE Ø4.0 HD-box 10 pcs.	
UBY0006C		3-01914 HK20	BYSTRONIC® NOZZLE Ø 2.0 HD CP	
UBY0006C-10		3-01914 HK20	BYSTRONIC® NOZZLE Ø2.0 HD CP-box 10 pcs.	
UBY0007C		3-03854 HK25	BYSTRONIC® NOZZLE Ø 2.5 HD CP	
UBY0007C-10		3-03854 HK25	BYSTRONIC® NOZZLE Ø2.5 HD CP-box 10 pcs.	
UBY0008C		3-06112 HK30	BYSTRONIC® NOZZLE Ø 3.0 HD CP	
UBY0008C-10		3-06112 HK30	BYSTRONIC® NOZZLE Ø3.0 HD CP-box 10 pcs.	
UBY0010C-10		HK40	BYSTRONIC® NOZZLE Ø 4.0 HD CP-box 10 pcs.	

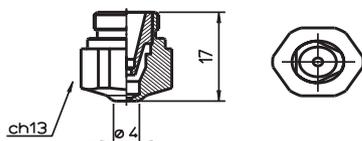


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0011-10		3-04273 K08	BYSTRONIC® NOZZLE Ø 0.8- 10 pcs. box	
UBY0012		3-01905 K10	BYSTRONIC® NOZZLE Ø 1.0	
UBY0012-10		3-01905 K10	BYSTRONIC® NOZZLE Ø1.0- box 10 pcs.	
UBY0013		3-01906 K12	BYSTRONIC® NOZZLE Ø 1.25	
UBY0013-10		3-01906 K12	BYSTRONIC® NOZZLE Ø 1.25-box 10 pcs.	
UBY0014		3-01907 K15	BYSTRONIC® NOZZLE Ø 1.5	
UBY0014-10		3-01907 K15	BYSTRONIC® NOZZLE Ø1.5-box 10 pcs.	
UBY0015-10		3-01908 K17	BYSTRONIC® NOZZLE Ø1.75-box 10 pcs.	
UBY0016-10		3-01909 K20	BYSTRONIC® NOZZLE Ø2.0-box 10 pcs.	
UBY0017-10		3-04274 K25	BYSTRONIC® NOZZLE Ø2.5-box 10 pcs.	
UBY0018-10		3-04275 K30	BYSTRONIC® NOZZLE Ø3.0-box 10 pcs.	
UBY0011C-10		3-04273 K08	BYSTRONIC® NOZZLE Ø0.8 CP-box 10 pcs.	
UBY0012C-10		3-01905 K10	BYSTRONIC® NOZZLE Ø1.0 CP-box 10 pcs.	
UBY0013C-10		3-01906 K12	BYSTRONIC® NOZZLE Ø1.25 CP-box 10 pcs.	
UBY0014C-10		3-01907 K15	BYSTRONIC® NOZZLE Ø1.5 CP-box 10 pcs.	
UBY0015C-10		3-01908 K17	BYSTRONIC® NOZZLE Ø1.75 CP-box 10 pcs.	
UBY0016C-10		3-01909 K20	BYSTRONIC® NOZZLE Ø2.0 CP-box 10 pcs.	
UBY0017C-10		3-04274 K25	BYSTRONIC® NOZZLE Ø2.5 CP-box 10 pcs.	
UBY0018C-10		3-04275 K30	BYSTRONIC® NOZZLE Ø3.0 CP-box 10 pcs.	

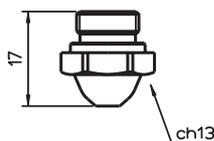


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0019		3-16058 NK10 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0	
UBY0019-10		3-16058 NK10 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0-box 10 pcs.	
UBY0020		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25	
UBY0020-10		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25-box 10 pcs.	
UBY0021		3-16060 NK15- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5	
UBY0021-10		3-16060 NK15- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5-box 10 pcs.	
UBY0022		3-14317 NK17 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75	
UBY0022-10		3-14317 NK17 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75-box 10 pcs.	
UBY0023		3-14318 NK20 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 2.0	
UBY0023-10		3-14318 NK20 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 2.0-box 10 pcs.	
UBY0024		3-14319 NK25 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 2.5	
UBY0024-10		3-14319 NK25 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 2.5-box 10 pcs.	
UBY0025		3-16256 NK25 - 20	BYSTRONIC® DOUBLE NOZZLE Ø 2.5	
UBY0025-10		3-16256 NK25 - 20	BYSTRONIC® DOUBLE NOZZLE Ø 2.5-box 10 pcs.	
UBY0026		3-16061 NK30 - 17	BYSTRONIC® DOUBLE NOZZLE Ø 3.0	
UBY0026-10		3-16061 NK30 - 17	BYSTRONIC® DOUBLE NOZZLE Ø 3.0-box 10 pcs.	
UBY0027		3-16257 NK30 - 20	BYSTRONIC® DOUBLE NOZZLE Ø 3.0	
UBY0027-10		3-16257 NK30 - 20	BYSTRONIC® DOUBLE NOZZLE Ø 3.0 -box 10 pcs.	
UBY0028		NK35-30	BYSTRONIC® DOUBLE NOZZLE Ø 3.5	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0028-10		NK35-30	BYSTRONIC® DOUBLE NOZZLE Ø 3.5 -box 10 pcs.	
UBY0019C-10		3-16058 NK10 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0 CP-box 10 pcs.	
UBY0020C		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25 CP	
UBY0020C-10		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25 CP-box 10 pcs.	
UBY0021C-10		3-16060 NK15- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5 CP-box 10 pcs.	
UBY0022C-10		3-14317 NK17 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75 CP-box 10 pcs.	
UBY0023C-10		3-14318 NK20 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 2.0 CP-box 10 pcs.	
UBY0024C-10		3-14319 NK25 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 2.5 CP-box 10 pcs.	
UBY0025C		3-16256 NK25 - 20	BYSTRONIC® DOUBLE NOZZLE Ø 2.5 CP	
UBY0025C-10		3-16256 NK25 - 20	BYSTRONIC® DOUBLE NOZZLE Ø 2.5 CP-box 10 pcs.	
UBY0026C-10		3-16061 NK30 - 17	BYSTRONIC® DOUBLE NOZZLE Ø 3.0 CP-box 10 pcs.	
UBY0027C-10		3-16257 NK30 - 20	BYSTRONIC® DOUBLE NOZZLE Ø 3.0 CP-box 10 pcs.	
UBY0028C-10		NK35-30	BYSTRONIC® DOUBLE NOZZLE Ø 3.5 CP-box 10 pcs.	

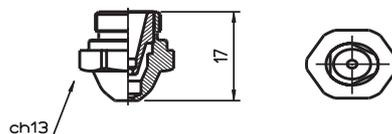


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0029-10		3-16058 NK10 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0-box 10 pcs.	
UBY0030		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25	
UBY0030-10		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25-box 10 pcs.	
UBY0031		3-16060 NK15- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5	
UBY0031-10		3-16060 NK15- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5-box 10 pcs.	
UBY0032		3-14317 NK17 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75	
UBY0032-10		3-14317 NK17 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75-box 10 pcs.	
UBY0029C		3-16058 NK10- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0 CP	
UBY0029C-10		3-16058 NK10- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0 CP-box 10 pcs.	
UBY0030C		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25 CP	
UBY0030C-10		3-16059 NK12- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25 CP-box 10 pcs.	
UBY0031C		3-16060 NK15- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5 CP	
UBY0031C-10		3-16060 NK15- 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5 CP-box 10 pcs.	
UBY0032C		3-14317 NK17 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75 CP	
UBY0032C-10		3-14317 NK17 - 15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75 CP-box 10 pcs.	

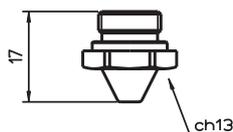


UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0033-10		3-04271 08	BYSTRONIC® NOZZLE Ø 0.8-box 10 pcs.	
UBY0034-10		3-01894 10	BYSTRONIC® NOZZLE Ø 1.0-box 10 pcs.	
UBY0035-10		3-01895 12	BYSTRONIC® NOZZLE Ø 1.25-box 10 pcs.	
UBY0036-10		3-01896 15	BYSTRONIC® NOZZLE Ø 1.5-box 10 pcs.	
UBY0037-10		3-01897 17	BYSTRONIC® NOZZLE Ø 1.75-box 10 pcs.	
UBY0038-10		3-01898 20	BYSTRONIC® NOZZLE Ø 2.0-box 10 pcs.	
UBY0039-10		3-04272 25	BYSTRONIC® NOZZLE Ø 2.5-box 10 pcs.	

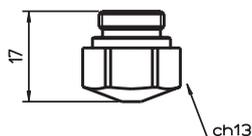
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0040-10		3-04275 H08	BYSTRONIC® NOZZLE Ø 0.8 HD-box 10 pcs.	
UBY0041		3-01899 H10	BYSTRONIC® NOZZLE Ø 1.0 HD	
UBY0041-10		3-01899 H10	BYSTRONIC® NOZZLE Ø 1.0 HD-box 10 pcs.	
UBY0042-10		3-01900 H12	BYSTRONIC® NOZZLE Ø 1.25 HD-box 10 pcs.	
UBY0043		3-01901 H15	BYSTRONIC® NOZZLE Ø 1.5 HD	
UBY0043-10		3-01901 H15	BYSTRONIC® NOZZLE Ø 1.5 HD-box 10 pcs.	
UBY0044		3-01902 H17	BYSTRONIC® NOZZLE Ø 1.75 HD	
UBY0044-10		3-01902 H17	BYSTRONIC® NOZZLE Ø 1.75 HD-box 10 pcs.	
UBY0045		3-01903 H20	BYSTRONIC® NOZZLE Ø 2.0 HD	
UBY0045-10		3-01903 H20	BYSTRONIC® NOZZLE Ø 2.0 HD-box 10 pcs.	
UBY0046		3-04276 H25	BYSTRONIC® NOZZLE Ø 2.5 HD	
UBY0046-10		3-04276 H25	BYSTRONIC® NOZZLE Ø 2.5 HD-box 10 pcs.	
UBY0047-10		H30	BYSTRONIC® NOZZLE Ø 3.0 HD-box 10 pcs.	
UBY0041C-10		3-01899 H10	BYSTRONIC® NOZZLE Ø 1.0 HD CP-box 10 pcs.	
UBY0042C-10		3-01900 H12	BYSTRONIC® NOZZLE Ø 1.25 HD CP-box 10 pcs.	
UBY0043C-10		3-01901 H15	BYSTRONIC® NOZZLE Ø 1.5 HD CP-box 10 pcs.	
UBY0044C-10		3-01902 H17	BYSTRONIC® NOZZLE Ø 1.75 HD CP-box 10 pcs.	
UBY0045C-10		3-01903 H20	BYSTRONIC® NOZZLE Ø 2.0 HD CP-box 10 pcs.	
UBY0046C-10		3-04276 H25	BYSTRONIC® NOZZLE Ø 2.5 HD CP-box 10 pcs.	
UBY0047C-10		H30	BYSTRONIC® NOZZLE Ø 3.0 HD CP-box 10 pcs.	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0048-10		N10-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0-box 10 pcs.	
UBY0049-10		N12-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25-box 10 pcs.	
UBY0050-10		N15-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5-box 10 pcs.	
UBY0051-10		N17-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75-box 10 pcs.	
UBY0052-10		N20-15	BYSTRONIC® DOUBLE NOZZLE Ø 2.0-box 10 pcs.	
UBY0053-10		N25-15	BYSTRONIC® DOUBLE NOZZLE Ø 2.5-box 10 pcs.	
UBY0054-10		N25-20	BYSTRONIC® DOUBLE NOZZLE Ø 2.5-box 10 pcs.	
UBY0055-10		N30-17	BYSTRONIC® DOUBLE NOZZLE Ø 3.0-box 10 pcs.	
UBY0056-10		N30-20	BYSTRONIC® DOUBLE NOZZLE Ø 3.0-box 10 pcs.	
UBY0048C-10		N10-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.0 CP-box 10 pcs.	
UBY0049C-10		N12-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.25 CP-box 10 pcs.	
UBY0050C-10		N15-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.5 CP-box 10 pcs.	
UBY0051C-10		N17-15	BYSTRONIC® DOUBLE NOZZLE Ø 1.75 CP-box 10 pcs.	
UBY0052C-10		N20-15	BYSTRONIC® DOUBLE NOZZLE Ø 2.0 CP-box 10 pcs.	
UBY0053C-10		N25-15	BYSTRONIC® DOUBLE NOZZLE Ø 2.5 CP-box 10 pcs.	
UBY0054C-10		N25-20	BYSTRONIC® DOUBLE NOZZLE Ø 2.5 CP-box 10 pcs.	
UBY0055C-10		N30-17	BYSTRONIC® DOUBLE NOZZLE Ø 3.0 CP-box 10 pcs.	
UBY0056C-10		N30-20	BYSTRONIC® DOUBLE NOZZLE Ø 3.0 CP-box 10 pcs.	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0058-10		3-01894 10	BYSTRONIC® NOZZLE Ø 1.0-box 10 pcs.	
UBY0059-10		3-01895 12	BYSTRONIC® NOZZLE Ø 1.25-box 10 pcs.	
UBY0060-10		3-01896 15	BYSTRONIC® NOZZLE Ø 1.5-box 10 pcs.	
UBY0061-10		3-01897 17	BYSTRONIC® NOZZLE Ø 1.75-box 10 pcs.	
UBY0063-10		3-01899 H10	BYSTRONIC® NOZZLE Ø 1.0 HD-box 10 pcs.	
UBY0064-10		3-01900 H12	BYSTRONIC® NOZZLE Ø 1.25 HD-box 10 pcs.	
UBY0065		3-01901 H15	BYSTRONIC® NOZZLE Ø 1.5 HD	
UBY0065-10		3-01901 H15	BYSTRONIC® NOZZLE Ø 1.5 HD-box 10 pcs.	
UBY0066-10		3-01902 H17	BYSTRONIC® NOZZLE Ø 1.75 HD-box 10 pcs.	
UBY0067		3-01903 H20	BYSTRONIC® NOZZLE Ø 2.0 HD	
UBY0067-10		3-01903 H20	BYSTRONIC® NOZZLE Ø 2.0 HD-box 10 pcs.	



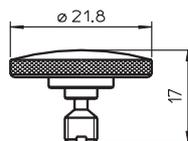
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0069-10		3-01905 K10	BYSTRONIC® NOZZLE Ø 1.0-box 10 pcs.	
UBY0070-10		3-01906 K12	BYSTRONIC® NOZZLE Ø 1.25-box 10 pcs.	
UBY0071-10		3-01907 K15	BYSTRONIC® NOZZLE Ø 1.5-box 10 pcs.	
UBY0074		3-01910 HK10	BYSTRONIC® NOZZLE Ø 1.0 HD	
UBY0074-10		3-01910 HK10	BYSTRONIC® NOZZLE Ø 1.0 HD-box 10 pcs.	
UBY0075		3-01911 HK12	BYSTRONIC® NOZZLE Ø 1.25 HD	
UBY0075-10		3-01911 HK12	BYSTRONIC® NOZZLE Ø 1.25 HD-box 10 pcs.	
UBY0076		3-01912 HK15	BYSTRONIC® NOZZLE Ø 1.5 HD	
UBY0076-10		3-01912 HK15	BYSTRONIC® NOZZLE Ø 1.5 HD-box 10 pcs.	
UBY0077		3-01913 HK17	BYSTRONIC® NOZZLE Ø 1.75 HD	
UBY0077-10		3-01913 HK17	BYSTRONIC® NOZZLE Ø 1.75 HD-box 10 pcs.	
UBY0078		3-01914 HK20	BYSTRONIC® NOZZLE Ø 2.0 HD	
UBY0078-10		3-01914 HK20	BYSTRONIC® NOZZLE Ø 2.0 HD-box 10 pcs.	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0080		2-01262	BYSTRONIC® SCANNER	



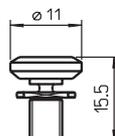
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0083		4-03137	BYSTRONIC® PIN	



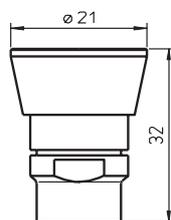
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UBY0084		4-03136	BYSTRONIC® KNURLED SCREW - BRASS	



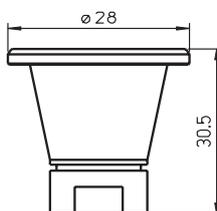
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0085		4-00324	BYSTRONIC® KNURLED SCREW	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0086		3-09001	BYSTRONIC® SCREW FOR CROSS-JET	



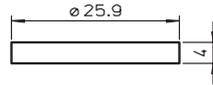
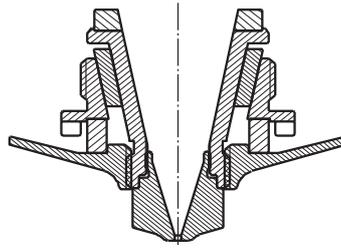
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0087		3-02291	BYSTRONIC® NOZZLE BODY	



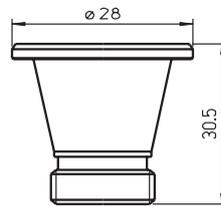
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0088		3-05497	BYSTRONIC® COPPER NOZZLE BODY € 8,80	



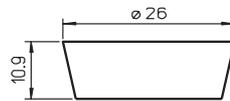
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0093		3140236	BYSTRONIC® O'RING	
UBY0094		3140820	BYSTRONIC® O'RING FOR LENS	



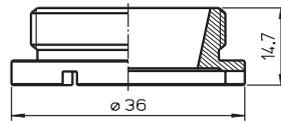
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0096		4-01642	BYSTRONIC® CERAMIC INSULATING DISC	
UBY0097		4-01642	BYSTRONIC® CERAMIC INSULATING DISC NEW VERSION	



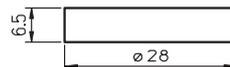
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0098		2-08701	BYSTRONIC® NOZZLE BODY	



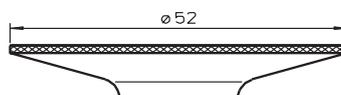
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0100		4-01959	BYSTRONIC® CERAMIC CONE	
UBY0101		4-01959	BYSTRONIC® CERAMIC CONE - NEW VERSION	



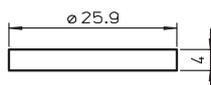
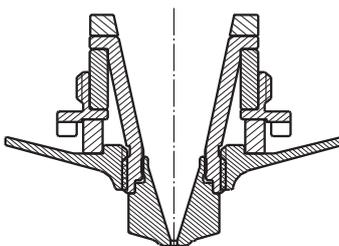
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0103		3-11071	BYSTRONIC® FASTENING NUT	



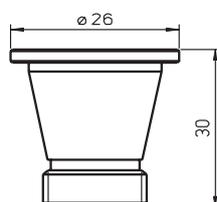
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UBY0105		4-09010	BYSTRONIC® CERAMIC INSULATING RING	



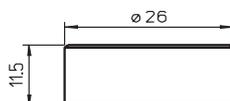
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0106		2-08700	BYSTRONIC® SIGNBOARD	
UBY0106X		2-08700	BYSTRONIC® SIGNBOARD CP	



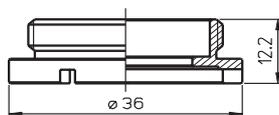
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0096		4-01642	BYSTRONIC® CERAMIC INSULATING DISC	
UBY0097		4-01642	BYSTRONIC® CERAMIC INSULATING DISC NEW VERSION	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0099		10032930	BYSTRONIC® NOZZLE BODY	



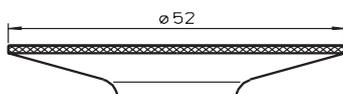
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UBY0102		10032838	BYSTRONIC® CERAMIC INSULATING RING	



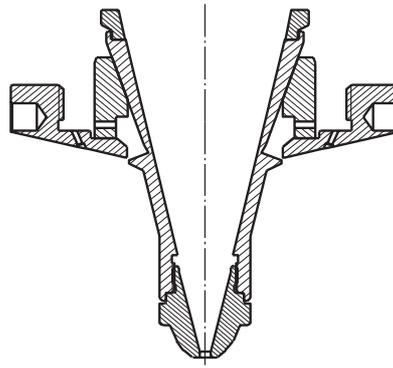
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UBY0104		10032839	BYSTRONIC® FASTENING NUT	



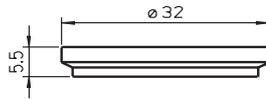
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UBY0105		4-09010	BYSTRONIC® CERAMIC INSULATING RING	



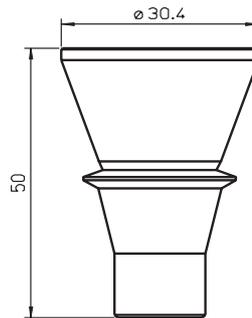
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UBY0106		AL173	BYSTRONIC® SIGNBOARD	
UBY0106X		AL173X	BYSTRONIC® SIGNBOARD CP	



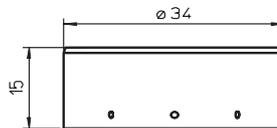
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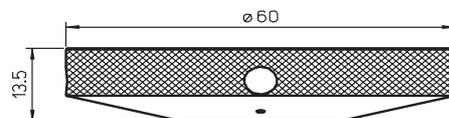
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0107		3-13113	BYSTRONIC® INSULATING RING	



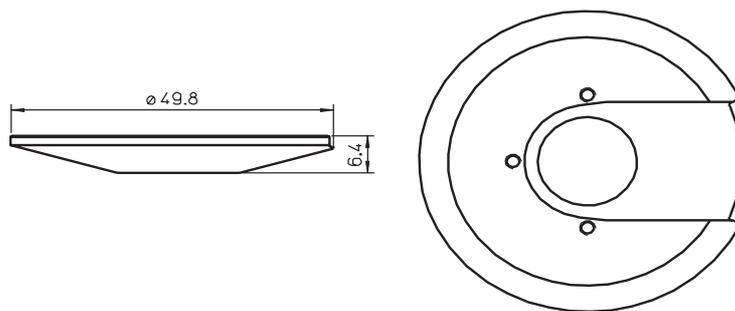
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0108		2-10837	BYSTRONIC® NOZZLE BODY	



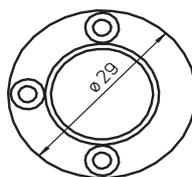
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0109		3-13422	BYSTRONIC® INSULATING RING WITH HOLES	



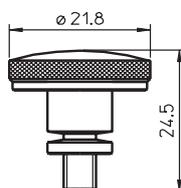
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UBY0110		3-13110	BYSTRONIC® SHIELD COPPER	



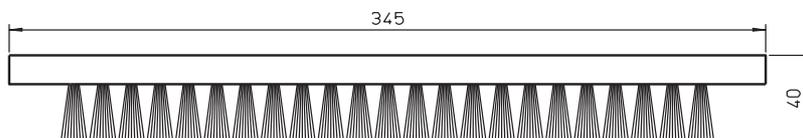
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0111		3-06035	BYSTRONIC® SIGNBOARD COPPER ONLY	



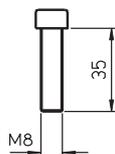
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UBY0113		3-06035-T	BYSTRONIC® DISC PTFE	



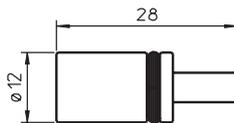
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0114		4-04976	BYSTRONIC® KNURLED SCREW	



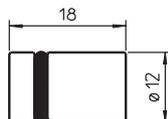
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0115		2-06511	BYSTRONIC® BRUSH 345x30x20 WITH SCREWS	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0116		333884	BYSTRONIC®/MAZAK® PLASTIC SCREWS - 2 pcs	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0117		7023207	BYSTRONIC® MALE WATER CONNECTOR	



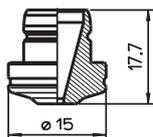
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0118		7023208	BYSTRONIC® FEMALE WATER CONNECTOR	

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0119		7023207 + 7023208	BYSTRONIC® WATER CONNECTOR MALE + FEMALE	

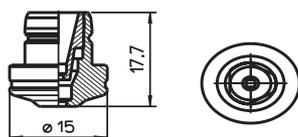
OILS AND FILTERS

Oils only for domestic market

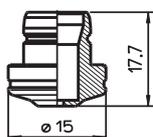
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0120		8861850	BYSTRONIC® CROSS-JET OIL LT5	
UBY0120-25		8861850-25	BYSTRONIC® CROSS-JET OIL LT25	
UBY0121		D020	BYSTRONIC® AIR FILTER DELTEC	
UBY0122		71064753	BYSTRONIC® VACUUM PUMP FILTER	
UBY0123		8820145	BYSTRONIC® WATER FILTER 60/MC	
UBY0124		8820154	BYSTRONIC® WATER FILTER 140M/C	
UBY0125		A37100MFO	BYSTRONIC® GREEN AIR FILTER 37X106	
UBY0126		7509293	BYSTRONIC® AIR FILTER ACTIVE COAL - SHORT mm. 95,00	
UBY0127		57002	BYSTRONIC® AIR FILTER ACTIVE COAL - LONG mm. 190,00	
UBY502456		502456	BYSTRONIC® VACUUM PUMP FILTER 4000W	



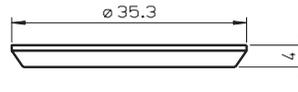
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UBY0128		10048529 - HK8	BYSTRONIC® NOZZLE Ø 0.8	
UBY0128-10		10048529 - HK8	BYSTRONIC® NOZZLE Ø 0.8-box 10 pcs.	
UBY0129-10		10035266 - HK10	BYSTRONIC® NOZZLE Ø 1.0-box 10 pcs.	
UBY0130		10035267 - HK12	BYSTRONIC® NOZZLE Ø 1.2	
UBY0130-10		10035267 - HK12	BYSTRONIC® NOZZLE Ø 1.2-box 10 pcs.	
UBY0131		10035268 - HK15	BYSTRONIC® NOZZLE Ø 1.5	
UBY0131-10		10035268 - HK15	BYSTRONIC® NOZZLE Ø 1.5-box 10 pcs.	
UBY0132-10		10035269 - HK17	BYSTRONIC® NOZZLE Ø 1.7-box 10 pcs.	
UBY0133-10		10035270 - HK20	BYSTRONIC® NOZZLE Ø 2.0-box 10 pcs.	
UBY0134		10035271 - HK25	BYSTRONIC® NOZZLE Ø 2.5	
UBY0134-10		10035271 - HK25	BYSTRONIC® NOZZLE Ø 2.5-box 10 pcs.	
UBY0135-10		10035272 - HK30	BYSTRONIC® NOZZLE Ø 3.0-box 10 pcs.	
UBY0136		10049744 - HK35	BYSTRONIC® NOZZLE Ø 3.5	
UBY0136-10		10049744 - HK35	BYSTRONIC® NOZZLE Ø 3.5-box 10 pcs.	



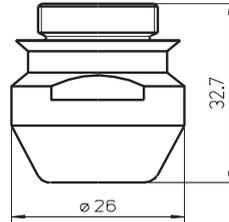
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UBY0137		10049747 - NK1015	BYSTRONIC® DOUBLE NOZZLE Ø 1.0	
UBY0137-10		10049747 - NK1015	BYSTRONIC® DOUBLE NOZZLE Ø 1.0-box 10 pcs.	
UBY0138		10035275 - NK1215	BYSTRONIC® DOUBLE NOZZLE Ø 1.2	
UBY0138-10		10035275 - NK1215	BYSTRONIC® DOUBLE NOZZLE Ø 1.2-box 10 pcs.	
UBY0139		10035278 - NK1515	BYSTRONIC® DOUBLE NOZZLE Ø 1.5	
UBY0139-10		10035278 - NK1515	BYSTRONIC® DOUBLE NOZZLE Ø 1.5-box 10 pcs.	
UBY0140		10035290 - NK1715	BYSTRONIC® DOUBLE NOZZLE Ø 1.7	
UBY0140-10		10035290 - NK1715	BYSTRONIC® DOUBLE NOZZLE Ø 1.7-box 10 pcs.	
UBY0141		10035292 - NK2015	BYSTRONIC® DOUBLE NOZZLE Ø 2.0	
UBY0141-10		10035292 - NK2015	BYSTRONIC® DOUBLE NOZZLE Ø 2.0-box 10 pcs.	
UBY0142-10		10035294 - NK2515	BYSTRONIC® DOUBLE NOZZLE Ø 2.5-box 10 pcs.	
UBY0143		10035296 - NK2520	BYSTRONIC® DOUBLE NOZZLE Ø 2,5	
UBY0143-10		10035296 - NK2520	BYSTRONIC® DOUBLE NOZZLE Ø 2,5-box 10 pcs.	
UBY0144-10		10035298 - NK3017	BYSTRONIC® DOUBLE NOZZLE Ø 3.0-box 10 pcs.	
UBY0145		10035301 - NK3020	BYSTRONIC® DOUBLE NOZZLE Ø 3.0	
UBY0145-10		10035301 - NK3020	BYSTRONIC® DOUBLE NOZZLE Ø 3.0-box 10 pcs.	
UBY0146		10035302 - NK3530	BYSTRONIC® DOUBLE NOZZLE Ø 3.5	
UBY0146-10		10035302 - NK3530	BYSTRONIC® DOUBLE NOZZLE Ø 3.5-box 10 pcs.	



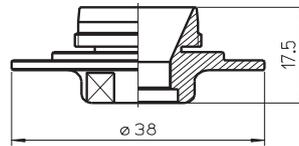
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UBY0147		10039202	BYSTRONIC® NOZZLE CN Ø 2.0	



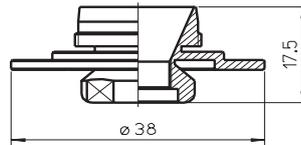
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UBY0148		10046025 08-12-04-9016	BYSTRONIC® ISOLATOR CERAMIC RING	



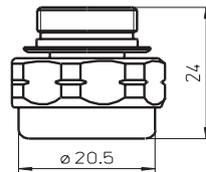
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UBY0149		10034061	BYSTRONIC® NOZZLE HOLDER	



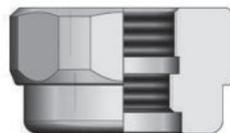
UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0150		10046030	BYSTRONIC® ADAPTER	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0151		10051133	BYSTRONIC® ADAPTER mSB	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0152		10064099		



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0153		10071494	BYSTRONIC® NOZZLE BODY	



UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UBY0154		10075057	BYSTRONIC® COUPLING	

LENSES II-VI FOR BYSTRONIC®

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UL507790M			IIVI LENS Ø 1.5" - FL 5.0" - ET 6.0MM MEN	
UL784964M			IIVI LENS Ø 1.5" - FL 7.5" - ET 6.0MM MEN	
UL621644M		4-05094	IIVI LENS Ø 1.5" - FL 5.0" - ET 9.0MM MEN	
UL698637M		4-05095	IIVI LENS Ø 1.5" - FL 7.5" - ET 9.0MM MEN	
UL123397M		4-07475	IIVI LENS Ø 1.5" - FL 5.0" - ET 9.0MM MP5 MEN	
UL602033M		4-07476	IIVI LENS Ø 1.5" - FL 7.5" - ET 9.0MM MP5 MEN	

WINDOWS II-VI FOR BYSTRONIC®

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPW0006II		10045746	IIVI WINDOW 36MM DIA X 5 MM ET	
UPW0021II		10086368 - 10071591	II-VI WINDOW 36.0MM DIA, 4,00MM ET	

WINDOWS FOR BYSTRONIC®

UPT CODE	ALTERNATE REFERENCE	ORIGINAL CODE	DESCRIPTION	unit price
UPW0006		10045746	WINDOW 36MM DIA X 5 MM ET	

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



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