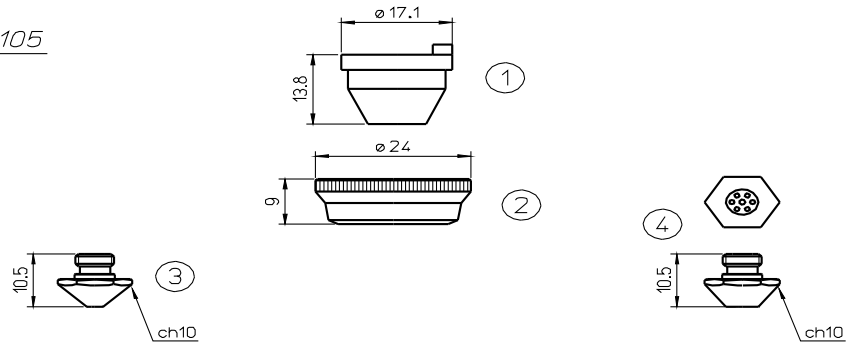


TRUMPF

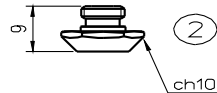
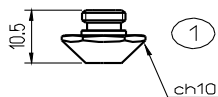
LASER TLC 105



POZ.	NR KAT.	NR PROD.	OPIS
1	HA53	280408-092405	TRUMPF NOZZLE HOLDER KT M1.5" KN
2	HA177	280550-P0494-940-00001	TRUMPF RING
3	H211	226939	TRUMPF NOZZLE Ø 1.0
	H212		TRUMPF NOZZLE Ø 1.4
	H213		TRUMPF NOZZLE Ø 1.7
	H211X	226939	TRUMPF NOZZLE Ø 1.0 CP
	H212X		TRUMPF NOZZLE Ø 1.4 CP
	H213X		TRUMPF NOZZLE Ø 1.7 CP
	H214		TRUMPF NOZZLE Ø 1.0 HD
	H215	226940	TRUMPF NOZZLE Ø 1.4 HD
	H216	227144	TRUMPF NOZZLE Ø 1.7 HD
	H214X		TRUMPF NOZZLE Ø 1.0 HD CP
	H215X	226940	TRUMPF NOZZLE Ø 1.4 HD CP
	H216X	227144	TRUMPF NOZZLE Ø 1.7 HD CP
4	H395	237364	TRUMPF SHOWER NOZZLE Ø 1.0

TRUMPF

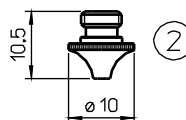
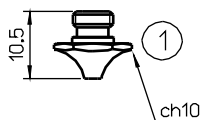
LASER TLC 105



POZ.	NR KAT.	NR PROD.	OPIS
1	H1150	135420-1354230	TRUMPF NOZZLE Ø 0.8
	H255	212334	TRUMPF NOZZLE Ø 1.0
	H1150X		TRUMPF NOZZLE Ø 0.8 CP
	H255X	212334	TRUMPF NOZZLE Ø 1.0 CP
	H1151		TRUMPF NOZZLE Ø 0.8 HD
	H270		TRUMPF NOZZLE Ø 1.0 HD
	H256	216199	TRUMPF NOZZLE Ø 1.4 HD
	H257	225213	TRUMPF NOZZLE Ø 1.7 HD
	H277	126156	TRUMPF NOZZLE Ø 2.3 HD
	H1151X		TRUMPF NOZZLE Ø 0.8 HD CP
	H270X		TRUMPF NOZZLE Ø 1.0 HD CP
	H256X	216199	TRUMPF NOZZLE Ø 1.4 HD CP
	H257X	225213	TRUMPF NOZZLE Ø 1.7 HD CP
	H277X	126156	TRUMPF NOZZLE Ø 2.3 HD CP
	2	H278	
H332			TRUMPF SHORT NOZZLE Ø 2.3 HD H=3.5

TRUMPF

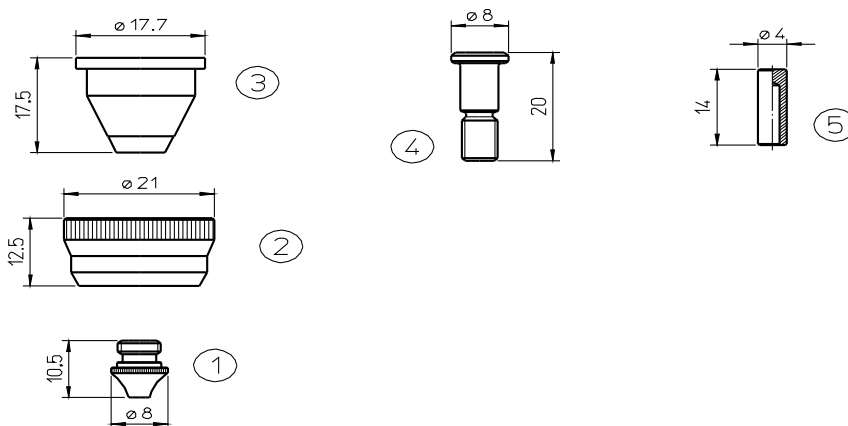
LASER TLC 105



POZ.	NR KAT.	NR PROD.	OPIS
1	H625	135320	TRUMPF NOZZLE Ø 1.0
	H625X	135320	TRUMPF NOZZLE Ø 1.0 CP
	H627		TRUMPF NOZZLE Ø 1.0 HD
	H628	135318	TRUMPF NOZZLE Ø 1.4 HD
	H629	126157	TRUMPF NOZZLE Ø 1.7 HD
	H627X		TRUMPF NOZZLE Ø 1.0 HD CP
	H628X	135318	TRUMPF NOZZLE Ø 1.4 HD CP
	H629X	126157	TRUMPF NOZZLE Ø 1.7 HD CP
	2	H746	
H267		135318	TRUMPF NOZZLE Ø 1.0 HD
H268		126157	TRUMPF NOZZLE Ø 1.4 HD
H269			TRUMPF NOZZLE Ø 1.7 HD
H267X		135318	TRUMPF NOZZLE Ø 1.0 HD CP
H268X		126157	TRUMPF NOZZLE Ø 1.4 HD CP
H269X			TRUMPF NOZZLE Ø 1.7 HD CP

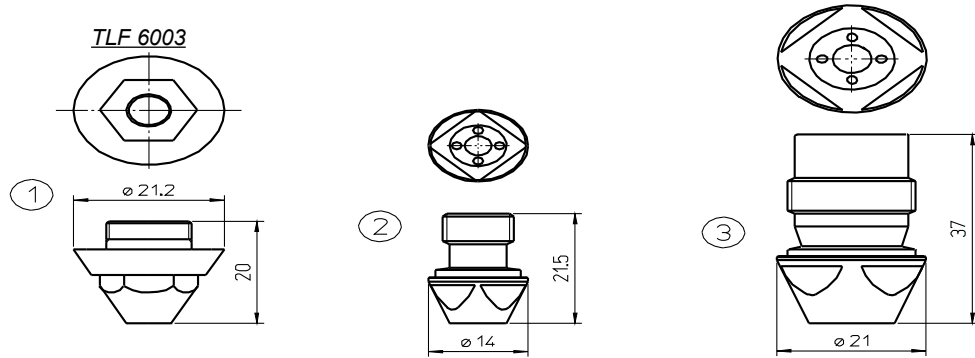
TRUMPF

LASER TLC 1005



POZ.	NR KAT.	NR PROD.	OPIS	
1	H745	958206	TRUMPF NOZZLE Ø 0.25	
	H500	913799	TRUMPF NOZZLE Ø 0.8 HD	
	H501	913800	TRUMPF NOZZLE Ø 1.0 HD	
	H502	913801	TRUMPF NOZZLE Ø 1.4 HD	
	H503	937988	TRUMPF NOZZLE Ø 1.7 HD	
	H504	937989	TRUMPF NOZZLE Ø 2.3 HD	
	H500X	913799	TRUMPF NOZZLE Ø 0.8 HD CP	
	H501X	913800	TRUMPF NOZZLE Ø 1.0 HD CP	
	H502X	913801	TRUMPF NOZZLE Ø 1.4 HD CP	
	H503X	937988	TRUMPF NOZZLE Ø 1.7 HD CP	
	H504X	937989	TRUMPF NOZZLE Ø 2.3 HD CP	
	2	HA254	0913965	TRUMPF RETAINER NUT
	3	HA212	936678 - 913966/00-WO	TRUMPF CERAMIC NOZZLE HOLDER
4	HA264	0971734	TRUMPF SAFETY SCREW	
5	HA265	0971878	TRUMPF PLUG	

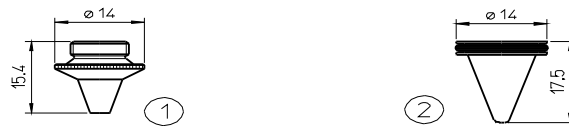
TRUMPF



POZ.	NR KAT.	NR PROD.	OPIS
1	H1010X	932530	TRUMPF NOZZLE Ø 4.5 CP
2	H1185	924947	TRUMPF WELDING NOZZLE M10
3	H1186	220783	TRUMPF WELDING NOZZLE M18

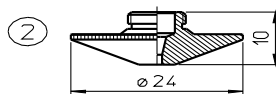
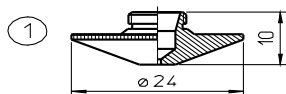
TESTA YH27

YAG



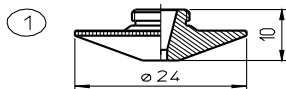
POZ.	NR KAT.	NR PROD.	OPIS
1	H405	281813-P0589-424-00008	PRECITEC NOZZLE Ø 0.8
	H406	281789-P0589-426-00010	PRECITEC NOZZLE Ø 1.0
	H404	281561 - 778550	PRECITEC NOZZLE Ø 1.2
	H407	281814 - 149957	PRECITEC NOZZLE Ø 1.5
	H408	P0589-428-00020	PRECITEC NOZZLE Ø 2.0
	H405X	281813-P0589-424-00008	PRECITEC NOZZLE Ø 0.8 CP
	H406X	281789-P0589-426-00010	PRECITEC NOZZLE Ø 1.0 CP
	H404X	281561 - 778550 - P0589-425-00012	PRECITEC NOZZLE Ø 1.2 CP
	H407X	281814 - 149957	PRECITEC NOZZLE Ø 1.5 CP
	H408X	P0589-428-00020	PRECITEC NOZZLE Ø 2.0 CP
2	H507	12-11-16-00	TRUMPF HAAS YAG NOZZLE Ø 0.8 W/O-RING
	H506		TRUMPF HASS YAG NOZZLE Ø 1.0 W/O-RING
	H505	12-11-09-17/00	TRUMPF HASS YAG NOZZLE Ø 1.2 W/O-RING

TRUMPF



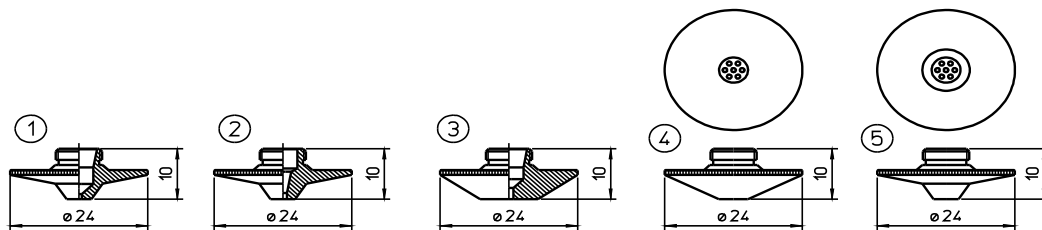
POZ.	NR KAT.	NR PROD.	OPIS	
1	H18	124561-237499	TRUMPF NOZZLE Ø 0.8	
	H19	124562-237498	TRUMPF NOZZLE Ø 1.0	
	H361	966809	TRUMPF NOZZLE Ø 1.2	
	H795		TRUMPF NOZZLE Ø 1.4	
	H26	237500	TRUMPF NOZZLE Ø 1.5	
	H796		TRUMPF NOZZLE Ø 1.7	
	H24	237503	TRUMPF NOZZLE Ø 2.0	
	H797	124564	TRUMPF NOZZLE Ø 2.3	
	H25	237504	TRUMPF NOZZLE Ø 3.0	
	H18X	352280	TRUMPF NOZZLE Ø 0.8 CP	
	H19X	352281	TRUMPF NOZZLE Ø 1.0 CP	
	H361X	352282	TRUMPF NOZZLE Ø 1.2 CP	
	H795X		TRUMPF NOZZLE Ø 1.4 CP	
	H26X	352288	TRUMPF NOZZLE Ø 1.5 CP	
	H796X		TRUMPF NOZZLE Ø 1.7 CP	
	H24X		TRUMPF NOZZLE Ø 2.0 CP	
	H797X	124564	TRUMPF NOZZLE Ø 2.3 CP	
	H25X	237504	TRUMPF NOZZLE Ø 3.0 CP	
	2	H20	237497	TRUMPF NOZZLE Ø 1.4 HD
		H20X	352283	TRUMPF NOZZLE Ø 1.4 HD CP

TRUMPF



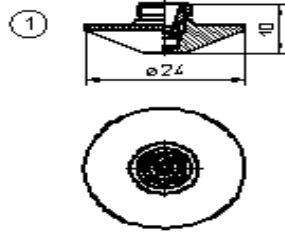
POZ.	NR KAT.	NR PROD.	OPIS
1	H258	237497/S	TRUMPF NOZZLE \varnothing 1.4 HD
	H21	237501	TRUMPF NOZZLE \varnothing 1.7 HD
	H168	237502	TRUMPF NOZZLE \varnothing 2.0 HD
	H76	126933	TRUMPF NOZZLE \varnothing 2.3 HD
	H185		TRUMPF NOZZLE \varnothing 2.5 HD
	H360	942742	TRUMPF NOZZLE \varnothing 2.7 HD
	H396		TRUMPF NOZZLE \varnothing 3.0 HD
	H258X	237497/S	TRUMPF NOZZLE \varnothing 1.4 HD CP
	H21X	352284	TRUMPF NOZZLE \varnothing 1.7 HD CP
	H168X	352287	TRUMPF NOZZLE \varnothing 2.0 HD CP
	H76X	352285	TRUMPF NOZZLE \varnothing 2.3 HD CP
	H185X		TRUMPF NOZZLE \varnothing 2.5 HD CP
	H360X	352286	TRUMPF NOZZLE \varnothing 2.7 HD CP
	H396X		TRUMPF NOZZLE \varnothing 3.0 HD CP

TRUMPF



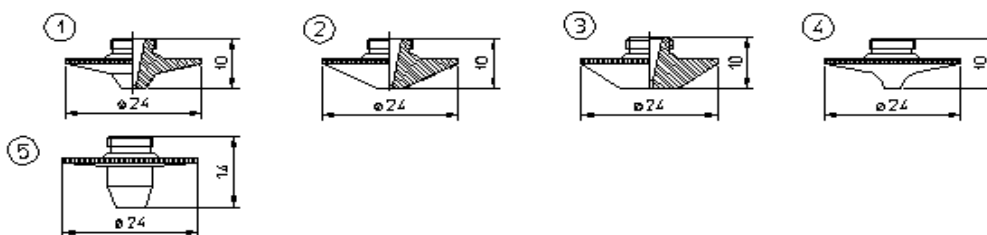
POZ.	NR KAT.	NR PROD.	OPIS
1	H2	215780	TRUMPF NOZZLE Ø 0.8
	H11	087658	TRUMPF NOZZLE Ø 1.0
	H2X	215780	TRUMPF NOZZLE Ø 0.8 CP
	H11X	087658	TRUMPF NOZZLE Ø 1.0 CP
2	H1	088894	TRUMPF NOZZLE Ø 1.4 HD
	H12	217867	TRUMPF NOZZLE Ø 1.7 HD
3	H13	088893	TRUMPF NOZZLE Ø 1.5
	H68	221781	TRUMPF NOZZLE Ø 2.0
	H230	235592	TRUMPF NOZZLE Ø 3.0
4	H495	237872	TRUMPF SHOWER NOZZLE Ø 0.8
5	H496	217976	TRUMPF SHOWER NOZZLE Ø 0.8

TRUMPF



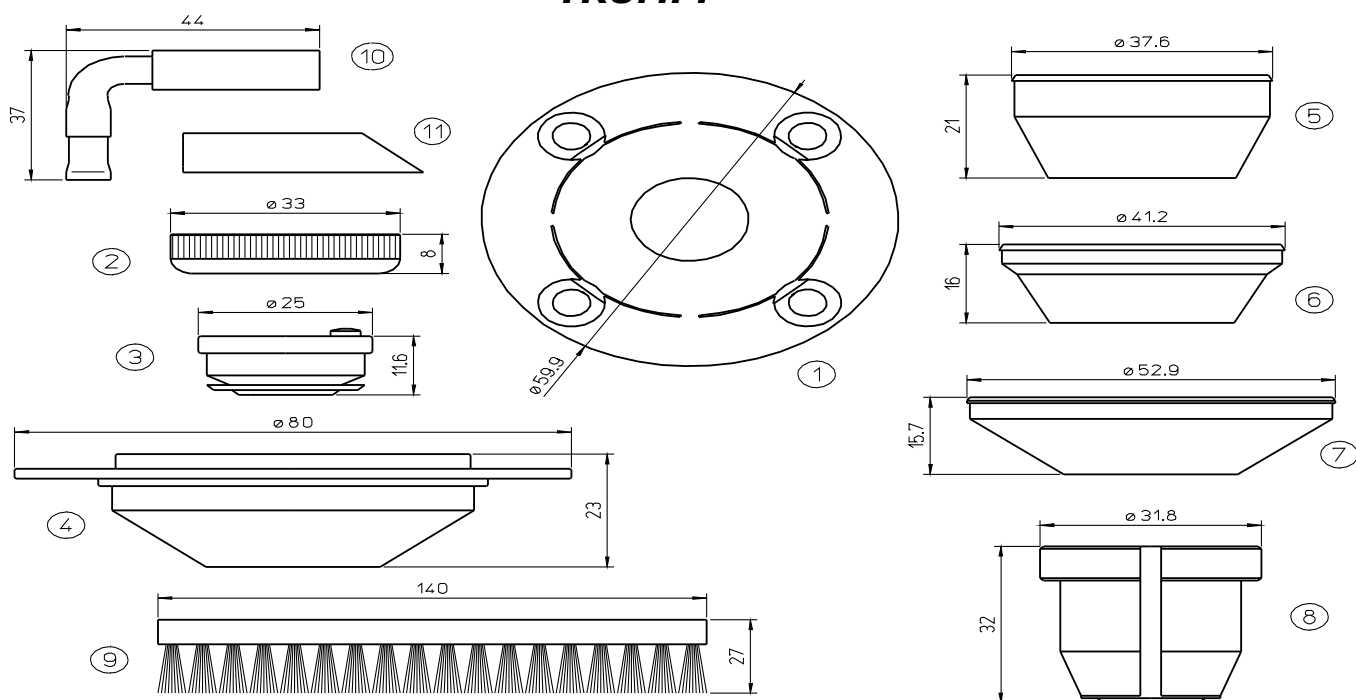
POZ.	NR KAT.	NR PROD.	OPIS
1	H640		TRUMPF NOZZLE Ø 0.8 W/I
	H641		TRUMPF NOZZLE Ø 1.0 W/I
	H648		TRUMPF NOZZLE Ø 1.2 W/I
	H642		TRUMPF NOZZLE Ø 1.4 W/I
	H643		TRUMPF NOZZLE Ø 1.7 W/I
	H644		TRUMPF NOZZLE Ø 2.0 W/I
	H645		TRUMPF NOZZLE Ø 2.3 W/I
	H646		TRUMPF NOZZLE Ø 2.7 W/I
	H647		TRUMPF NOZZLE Ø 3.0 W/I
	H640X		TRUMPF NOZZLE Ø 0.8 CP W/I
	H641X		TRUMPF NOZZLE Ø 1.0 CP W/I
	H648X		TRUMPF NOZZLE Ø 1.2 CP W/I
	H642X		TRUMPF NOZZLE Ø 1.4 CP W/I
	H643X		TRUMPF NOZZLE Ø 1.7 CP W/I
	H644X		TRUMPF NOZZLE Ø 2.0 CP W/I
	H645X		TRUMPF NOZZLE Ø 2.3 CP W/I
	H646X		TRUMPF NOZZLE Ø 2.7 CP W/I
	H647X		TRUMPF NOZZLE Ø 3.0 CP W/I

TRUMPF



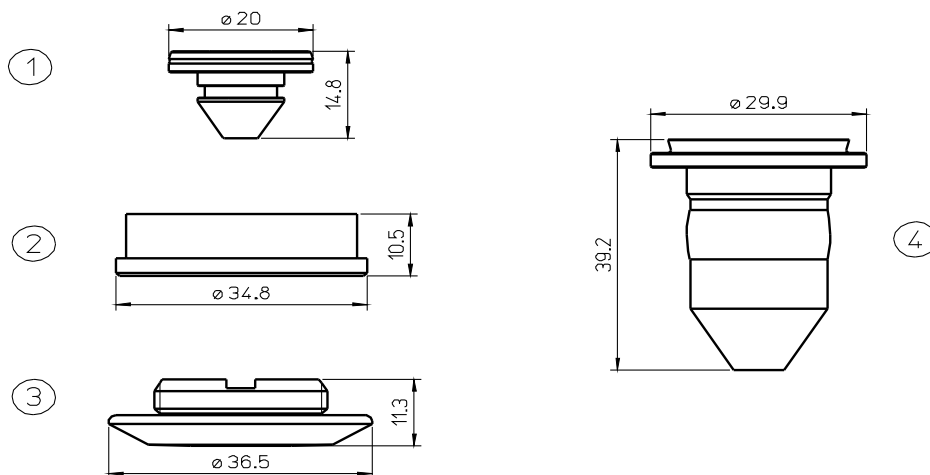
POZ.	NR KAT.	NR PROD.	OPIS
1	H226		TRUMPF NOZZLE Ø 0.8 HD
	H181		TRUMPF NOZZLE Ø 1.0 HD
	H182		TRUMPF NOZZLE Ø 1.4 HD
	H227		TRUMPF NOZZLE Ø 1.7 HD
	H313		TRUMPF NOZZLE Ø 2.3 HD
2	H228		TRUMPF NOZZLE Ø 0.8 HD
	H180		TRUMPF NOZZLE Ø 1.0 HD
3	H232		TRUMPF NOZZLE Ø 1.5 HD
	H233		TRUMPF NOZZLE Ø 2.0 HD
4	H720		TRUMPF SPECIAL NOZZLE Ø 2.3 HD
	H721		TRUMPF SPECIAL NOZZLE Ø 2.5 HD
	H722		TRUMPF SPECIAL NOZZLE Ø 2.7 HD
	H671		TRUMPF NOZZLE Ø 2.3 HD ECONOMY GAS
	H1034X		TRUMPF SPECIAL NOZZLE Ø 1.4 HD CP
	H1035X		TRUMPF SPECIAL NOZZLE Ø 1.7 HD CP
	H720X		TRUMPF SPECIAL NOZZLE Ø 2.3 HD CP
H721X		TRUMPF SPECIAL NOZZLE Ø 2.5 HD CP	
H722X		TRUMPF SPECIAL NOZZLE Ø 2.7 HD CP	
5	H200		TRUMPF EXTENDED NOZZLE Ø 0.8
	H199		TRUMPF EXTENDED NOZZLE Ø 1.0
	H657		TRUMPF EXTENDED NOZZLE Ø 1.2
	H658		TRUMPF EXTENDED NOZZLE Ø 1.4
	H670		TRUMPF EXTENDED NOZZLE Ø 1.6
	H659		TRUMPF EXTENDED NOZZLE Ø 1.7

TRUMPF



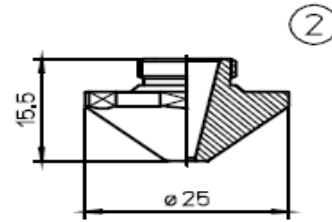
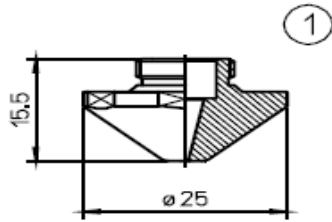
POZ.	NR KAT.	NR PROD.	OPIS
1	HA70	234485	TRUMPF BREAK-AWAY
2	HA250	216066	TRUMPF SIGNBOARD
3	HA38		TRUMPF CERAMIC NOZZLE HOLDER
4	HA19	216065	TRUMPF TEFLON COVER
5	HA47	256153-955826	TRUMPF TEFLON COVER
6	HA36	254496	TRUMPF TEFLON COVER
7	HA41	225286	TRUMPF TEFLON COVER
8	HA108	254493-260432	TRUMPF CERAMIC NOZZLE HOLDER
9	HA272	0353202 - 900594	TRUMPF BRUSH - TASTER
10	088557	088557	TRUMPF NOZZLE 90°
11	256184	256184	TRUMPF BLOW TUBE

TRUMPF



POZ.	NR KAT.	NR PROD.	OPIS
1	H5	202952	TRUMPF NOZZLE $\varnothing 0.8$
	H34	218969	TRUMPF NOZZLE $\varnothing 1.0$
	H35	209402	TRUMPF NOZZLE $\varnothing 1.4$ HD
	H36	217953	TRUMPF NOZZLE $\varnothing 1.7$ HD
2	HA8		TRUMPF STYLUS FOOT
3	HA7	216086	TRUMPF STYLUS FOOT
4	H217	060653	TRUMPF NOZZLE $\varnothing 0.8$
	H218	060653	TRUMPF NOZZLE $\varnothing 1.0$
	H219	060653	TRUMPF NOZZLE $\varnothing 1.4$

TRUMPF



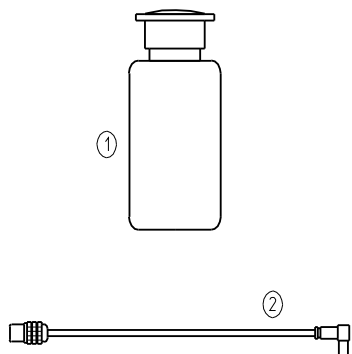
POZ.	NR KAT.	NR PROD.	OPIS
1	L1270	1324858	TRUMPF NOZZLE Ø 0.8
	L1272	1324860	TRUMPF NOZZLE Ø 1.0
	L1273	1324861	TRUMPF NOZZLE Ø 1.2
	L1275	1324863	TRUMPF NOZZLE Ø 1.4
	L1276	13248864	TRUMPF NOZZLE Ø 1.7
2	L1277	1324865	TRUMPF NOZZLE Ø 2.0
	L1278	1324866	TRUMPF NOZZLE Ø 2.3
	L1279	1324867	TRUMPF NOZZLE Ø 2.7

TRUMPF FILTRY

NR KAT.	NR PROD.	OPIS
FT1	092380	TRUMPF FILTER 092380 DX
FT2	092381	TRUMPF FILTER 092381 BX
FT3	092379	TRUMPF FILTER 092379 CI
FT4	123676	TRUMPF FILTER 123676
FT5	123675	TRUMPF FILTER 123675
FT6	123674	TRUMPF FILTER 123674
CP10	146152	TRUMPF WATER FILTER 30x68x250 146152



TRUMPF



POZ.	NR KAT.	NR PROD.	OPIS
1	0370000	EASY KIT 0370000	TRUMPF EASY KIT
			Biocide 2594 GREEN CAP 12 bottles ml 30
			Sanitizer ST40 RED CAP 12 bottles ml 20
			Inhibitor 2513 BLUE CAP 8 bottles ml 30
			Inhibitor 73199 YELLOW CAP 4 bottles ml 30
2	351086	0351086	TRUMPF - ORIG. ELECTRODE CABLE PRECITEC

MATERIAŁY EKSPLOATACYJNE DO CZYSZCZENIA OPTYKI



Mleczko do polerowania optyki (250 ml)

Mleczko do polerowania optyki (50 ml)

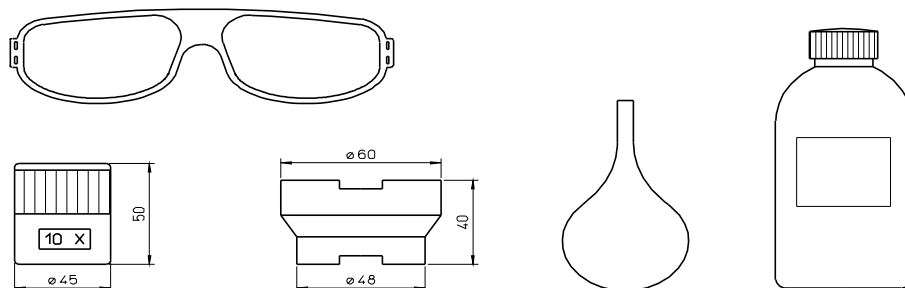
Papierki czyszczące 500 szt. (10x20 cm)

Papierki czyszczące 50 szt. (10x15 cm)

Patyczki bawełniane 100% bawełny

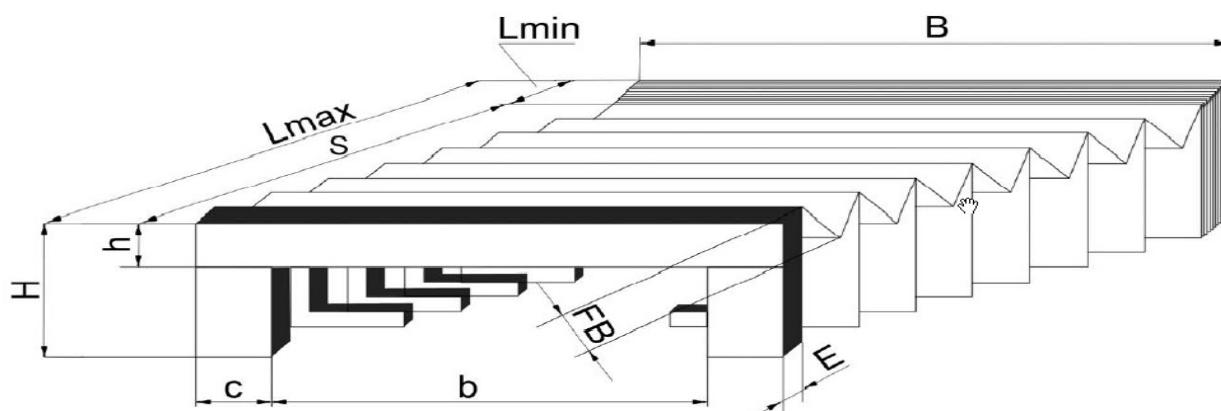
Aceton (250 ml)

AKCESORIA



HA1100		LASER CO2 GLASSES CE APPROVED
HA2100		LASER CO2 MASK DL 4 CE APPROVED
HA3100		LASER CO2 GLASSES DL 4 CE APPROVED
HA1002		MIRROR CLEANING LIQUID - bottle cl 20
HA1001	123602	LENS CLEANING LIQUID - bottle cl 20
HA1003-100	240568-100	LENS CLEANING - ml 100
HA1003-200	240568-200	LENS CLEANING - ml 200
HA1004		POLISH DETERGENT
HA1010		DROPPER FOR LENS CLEANING LIQUID
HA1120		LATEX GLOVES - 10 pieces
HA1115		INDIUM WIRE Ø 1.0mm FOR 1.5" LENSE
HAI115/M		MAZAK INDIUM 0.8mm FOR 1.5" MAZAK LENS
HA1120		INDIUM WIRE Ø 1.0mm FOR Ø 2.0mm LENS
HAI120/M		MAZAK INDIUM 0,8mm FOR 2,0" LENS
50		LENS CLEANING PAPER - 50sheets
100		KODAK LENS CLEANING PAPER - 50sheets
20		COTTON SWAB -20 pieces
HA1115		LENS CLEANING PRE-CUT COTTON - 100 pieces
HA255	091860	SCALE LUPE
HA271		BASE FOR LENS MAINTENANCE
HA282		INJECTOR

OSŁONY HARMONIJKOWE



L_{max} – długość osłony w stanie rozciągniętym

L_{min} – długość osłony w stanie ściśniętym

n – ilość żeber

FB – wysokość żebra

S = skok = $L_{max} - L_{min}$

c – szerokość ramy końcowej

h – wysokość ramy końcowej

E – grubość ramy końcowej

B – szerokość zewnętrzna osłony

H – wysokość zewnętrzna osłony

b – szerokość wewnętrzna

