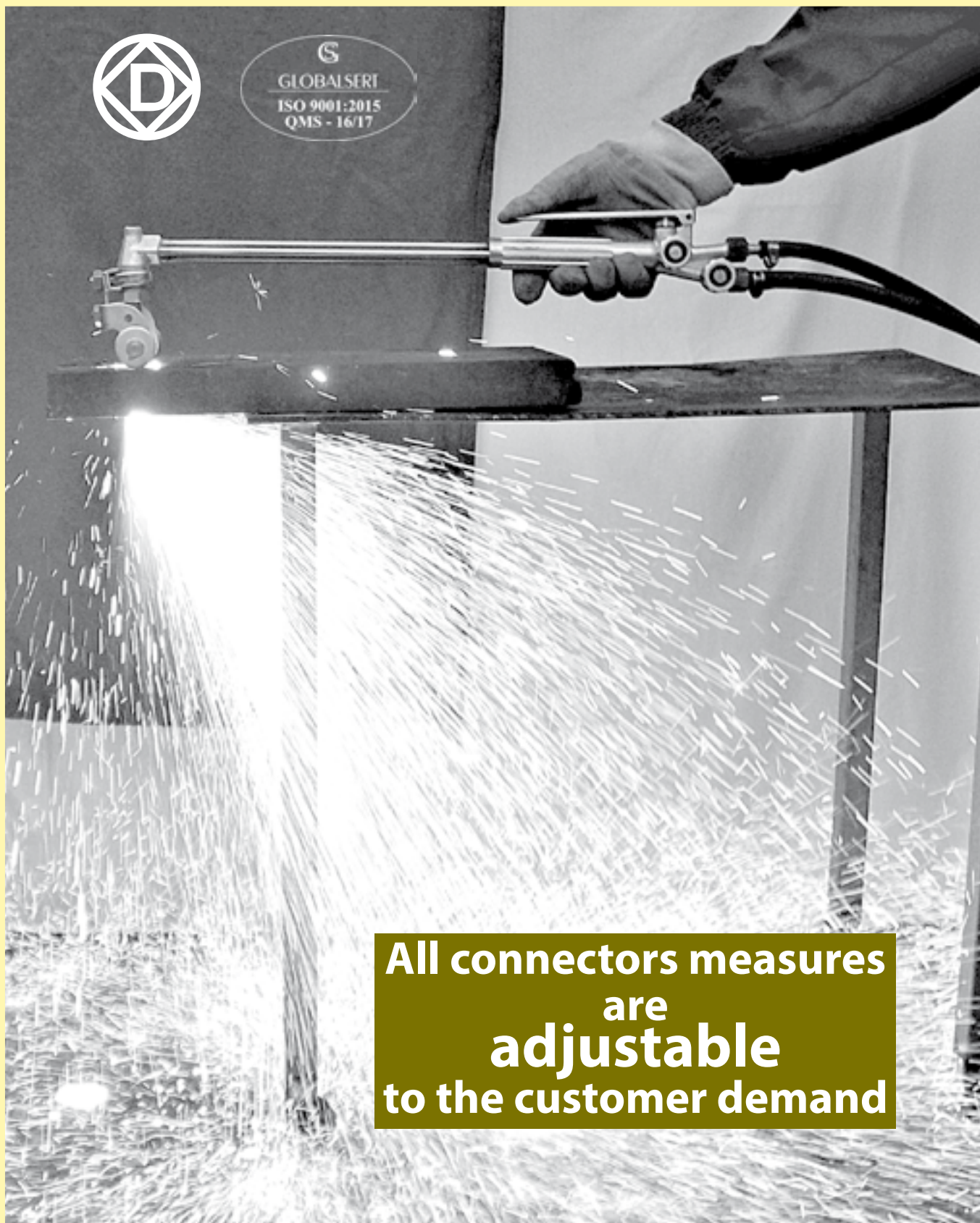


TEHNOVAŘ

BEOGRAD, SRBIJA



**All connectors measures
are
adjustable
to the customer demand**

ŠTAMPANO 2017.

OPREMA ZA REZANJE METALA

METAL CUTTING EQUIPMENT

2450 JEDNODELNI RUČNI GORIONIK **FLEŠ** PB/ZG i AC L 286 mm
Dužina po zahtevu kupca do 2000 mm

CONNECTION:
GAS-R 3/8" LH / O₂-R1/4"

CUTTING TORCH PB/NATURAL GAS or AC customized up to 2000 mm



5008/1 KOLICA
TORCH GUIDE

DIZNE SA RAVNIM NALEGANJEM PB/AC
CUTTING NOZZLE FOR 2450



CUTTING NOZZLE FOR 2450

Thickness mm	Code Propan butan	Code Acetylene	Oxygen Pressure bar	Gas Pressure bar
1-10	2452/0	2453/0	1.5-2	0.2
10-25	2452/1	2453/1	2.5-3	0.2
25-50	2452/2	2453/2	3-4	0.2
40-80	2452/3	2453/3	3-4.5	0.2
80-150	2452/4	2453/4	3.5-5.5	0.2
150-200	2452/5	2453/5	4.5-5.5	0.2
200-300	2452/6	2453/6	5-6	0.2

2453 DIZNA SA RAVNIM NALEGANJEM AC
2452 DIZNA SA RAVNIM NALEGANJEM PB/ZG
Koristi se sa gorionicima **2450**.

CUTTING NOZZLE FOR 2450.

3007 GORIONIK - **MALI FLEM** PB/ZG 1200MM ZA REZANJE DEBLJIH KOMADA ČELIKA I GUSA
Burner - **small flem** PB / ZG 1200mm cutting thick pieces of steel and cast iron



3012/1 DIZNE ZA REZANJE ČELIKA
Nozzles for cutting steel 3-300

3012G DIZNA ZA REZANJE GUSA
Nozzle for cutting cast iron

3012/2 DIZNE ZA REZANJE ČELIKA
Nozzles for cutting steel 300-450

RUČNI PROGRAM SA INEKTORSKOM DIZNOM

MANUAL EQUIPMENT WITH MIXING NOZZLE

2430 JEDNODELNI RUČNI GORIONIK ZENIT, za inektorske dizne L-280 mm
Dužina po zahtevu kupca do L 2000 mm

CONNECTION:
GAS-R 3/8" LH / O₂-R1/4"

CUTTER FOR MIXING NOZZLE WITH HANDLE
Lenght customized up to 2000mm



5008/2 KOLICA
TORCH GUIDE



Karakteristike: gorionik **2430** odlikuje se čvrstinom, kvalitetom, lakoćom rukovanja i malom težinom. Smanjena potrošnja gorivog gasa i kiseonika.

Characterized by its solidity, quality, ease of handling and low weight reduced the consumption of gas oxygen



2441 INEKTORSKE DIZNE AC
2431 INEKTORSKE DIZNE PB/ZG
MIXING NOZZLE - PB/natural gas
- Acetylene

2431 Mixing nozzle propan butan 2441 Mixing nozzle acetylen

For torche 2430, 2432

Thickness mm	Code Propan butan	Code Acetylene	Oxygen Pressure bar	Gas Pressure bar
1-10	2431/0	2441/0	1.5-2	0.2
10-25	2431/1	2441/1	2.5-3	0.2
25-50	2431/2	2441/2	3-4	0.2
40-80	2431/3	2441/3	3-4.5	0.5
80-150	2431/4	2441/4	3.5-5.5	0.5
150-200	2431/5	2441/5	4.5-5.5	0.5
200-300	2431/6	2441/6	5-6	0.5

RUČNI PROGRAM ZA REZANJE I ŽLJEBLJENJE METALA

MANUAL PROGRAM FOR METAL CUTTING AND GROOVING

CONNECTION:
GAS-R 3/8"LH / O₂-R1/4"



2421 RUČNI GORIONIK za rezanje i žljebljenje AC i PB L 286 mm - jednodelni
Debljina rezanja do 250 mm

MANUAL TORCH AC WITH HANDLE 286mm, cutting and grooving up to 250 mm

7001/7002
Protivplameni osigurači
ISO9001 22105CE 1837



7056 RUČNI GORIONIK AC i PB za rezanje i žljebljenje
Debljina rezanja do 250 mm

MANUAL TORCH AC cutting and grooving up to 250mm

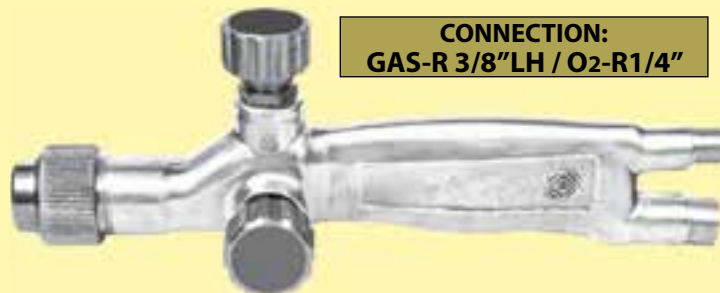


5002 UNIVERZALNI RUKOHVAT
HANDLE

CONNECTION:
GAS-R 3/8"LH / O₂-R1/4"



5008/56 KOLICA
TORCH GUIDE



DIZNE ZA RUČNO REZANJE - Gorivi gas acetilen i PB
NOZZLE FOR HAND CUTTING - ACETYLENE

OZNAKA LABEL	DEBLJINA REZANJA THICKNESS	ŠIFRA / CODE	
		AC	PB
0,5	3-10	6010	6010PB
1	10-25	6011	6011PB
1,5	25-50	6012	6012PB
2	50-100	6013	6013PB
2,5	100-150	6014	6014PB



M15x1

DIZNE AC ZA ŽLJEBLJENJE
ZAVARENIH SPOJEVA

NOZZLE AC FOR GROOVING (blow pipe torch)

OZNAKA LABEL	ŠIFRA / CODE	
	AC	PB
Br. 1	6020	6020PB
Br. 2	6021	6021PB
Br. 3	6022	6022PB



M15x1

OPREMA ZA RUČNO REZANJE METALA

EQUIPMENT FOR MANUAL CUTTING



AC-3014, PB-3015 RUČNI GORIONIK od 173 do 487 mm

MANUAL TORCH long 173 to 487mm



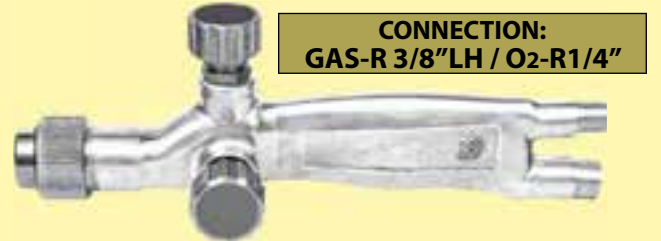
5001 - UNIVERZALNI RUKOHVAT
HANDLE

CONNECTION:
GAS-R 3/8" LH / O₂-R1/4"



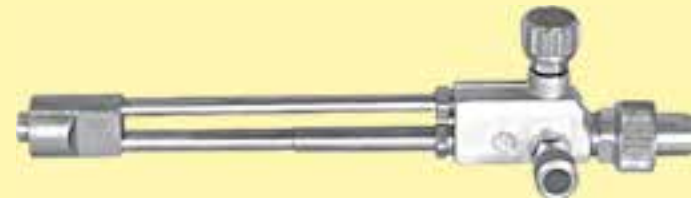
AC-2010, PB-2110 RUČNI GORIONIK -
STANDARD, dužina gorionika 173 mm

MANUAL TORCH STANDARD



5002 - UNIVERZALNI RUKOHVAT
HANDLE

CONNECTION:
GAS-R 3/8" LH / O₂-R1/4"



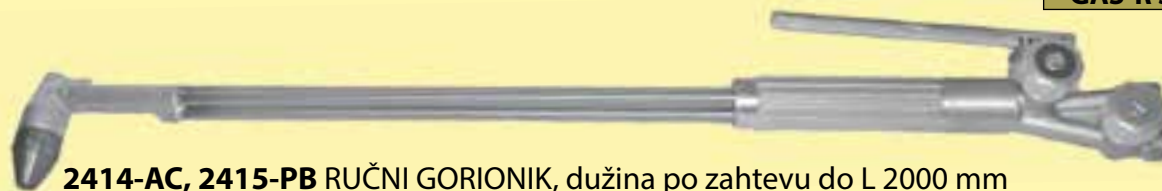
AC-2010/2, PB-2110/2 RUČNI GORIONIK - RAVNI

MANUAL TORCH-flat

Ručni gorionici za rezanje metala na gorivi gas AC, PB/ZG
Manual torch for cutting metal on fuel gas AC, propan and natural gas

TIP <i>Type</i>	DUŽINA GORIONIKA <i>length mm</i>	ŠIFRA / <i>code</i>		OPSEG REZANJA <i>cutting depth mm</i>
		AC	PB	
STANDARD	173	2010	2110	3-300
	286	2011	2111	
	367	2012	2112	
	487	2013	2113	
	po zahtevu <i>customized</i>	2310	2410	

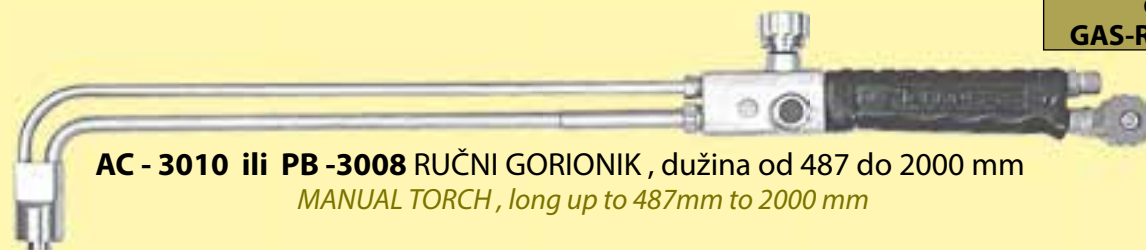
CONNECTION:
GAS-R 3/8" LH / O₂-R1/4"



2414-AC, 2415-PB RUČNI GORIONIK, dužina po zahtevu do L 2000 mm

MANUAL TORCH Customized to 2000mm

CONNECTION:
GAS-R 3/8" LH / O₂-R1/4"



AC - 3010 ili PB - 3008 RUČNI GORIONIK, dužina od 487 do 2000 mm

MANUAL TORCH, long up to 487mm to 2000 mm

DIZNE ZA RUČNE GORIONIKE *NOZZLE FOR HAND CUTTING*



5008 KOLICA
TORCH GUIDE



M21x1.5

M9

M21x1.5

M8

UNUTRAŠNJE <i>INNER</i>	DEBLJINA METALA <i>THICKNESS</i>	ŠIFRE <i>CODE</i>	
		AC	PB
UNUTRAŠNJE <i>INNER</i>	3-10	1141	1151
	10-30	1142	1152
	30-60	1143	1153
	60-100	1144	1154
	100-200	1145	1155
	200-300	1146	1156
SPOLJNA <i>OUTTER</i>	3-100	1160	1170
	100-300	1161	1171

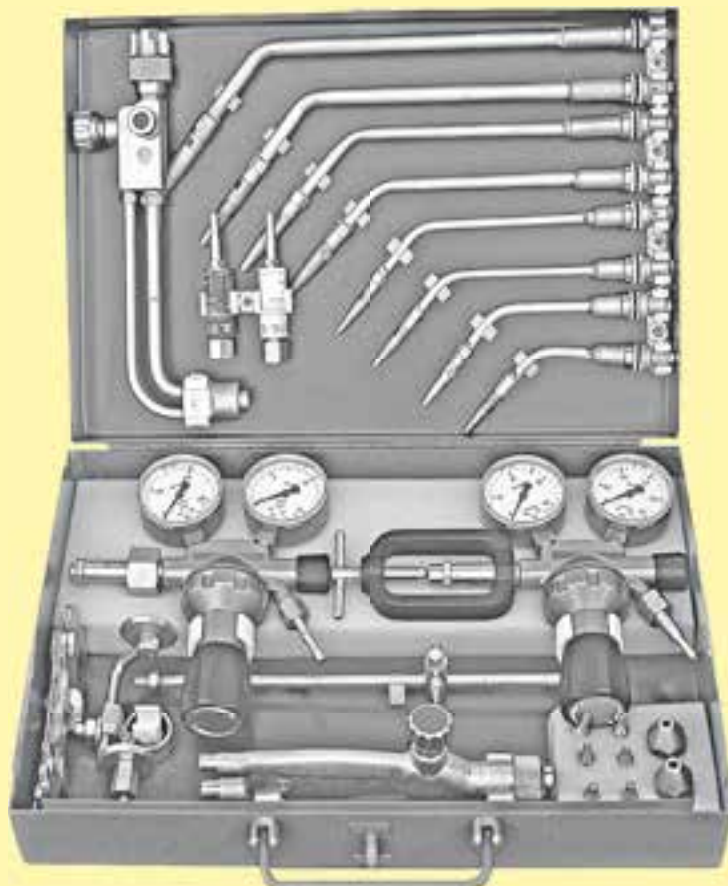
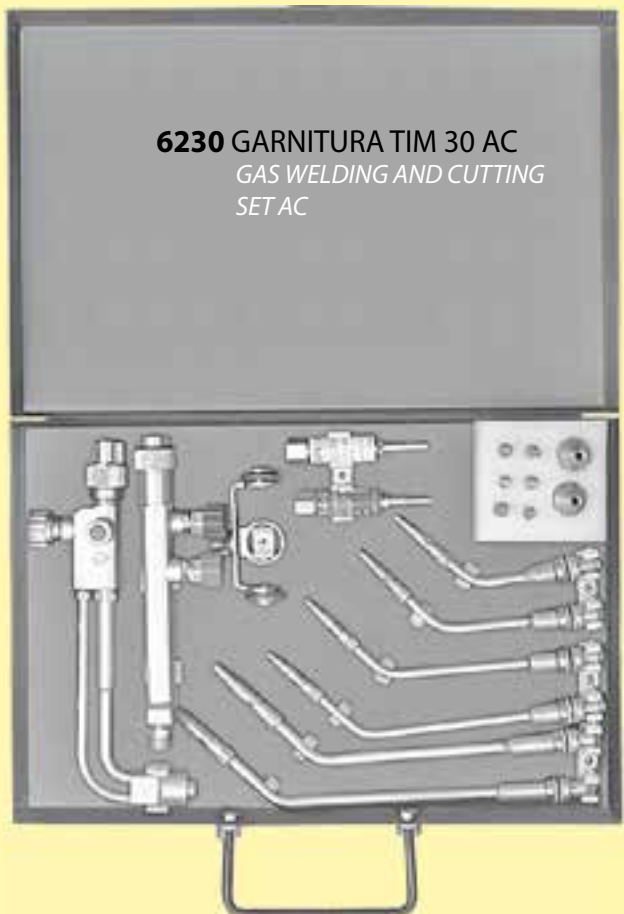


7050 Šestar za kružno vođenje ručnih gorionika
FOR CYRCLC CUTTING

6225 GARNITURA TIM 25 PB
GAS CUTTING SET PB



6230 GARNITURA TIM 30 AC
GAS WELDING AND CUTTING SET AC

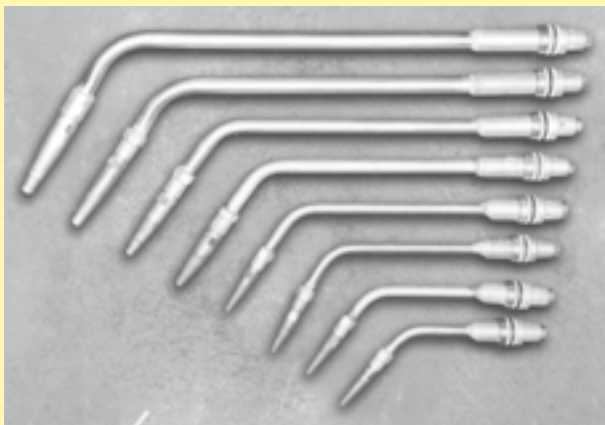


5019 GARNITURA TIM 35 AC
GAS WELDING AND CUTTING SET AC

REGULACIONI VENTILI SA MANOMETRIMA
PRESSURE REGULATOR

GAS	ULAZNI PRITISAK Inlet pressure bar	IZLAZNI PRITISAK Outlet pressure bar	PROTOK Nominal flow rate m ³ /h	PRIKLJUČNA MERA Inlet connection	ŠIFRA CODE
AC	25	1,5	5	Uzengija/yoke	6001
O ₂	200	10	30	W21.8x1/4"	6002
CO ₂ i ARG	200	/	24l/min	W21.8x1/14"	6000
PB	/	4	5	W21.8x1/14"L	6003





TABELARNI PREGLED PLAMENIKA ZA ZAVARIVANJE

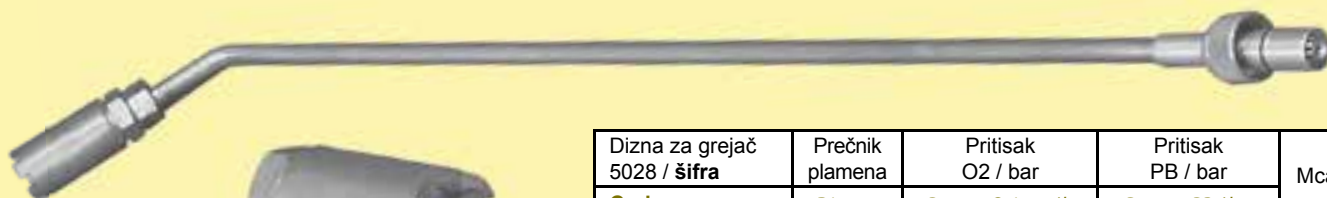
Overview of the welding torch

Šifra code	Tip plamenika type of welding heads	Debljina materijala (mm) material thickness
5004	Plamenik No1 - welding heads No.1	0,5-1
5005	Plamenik No2 - welding heads No.2	1-2
5006	Plamenik No3 - welding heads No.3	2-4
5007	Plamenik No4 - welding heads No.4	4-6
5015	Plamenik No5 - welding heads No.5	6-9
5016	Plamenik No6 - welding heads No.6	9-14
5017	Plamenik No7 - welding heads No.7	14-20
5018	Plamenik No8 - welding heads No.8	20-30

5028 GREJAČ SA VIŠEPLAMENIM DIZNAMA - Propan butan / zemni gas - Kiseonik ZA INTEZIVNO ZAGREVANJE

Konekcija za rukohvat tip "Tehnovar" ili "Teleoptik"

TORCH FOR INTENSIVE HEATING MATERIAL - Propane Butane / natural gas - Oxygen
Connection to handle "Tehnovar" or "Teleoptik"



Dizna za grejač 5028 / šifra	Prečnik plamena	Pritisak O2 / bar	Pritisak PB / bar	Mcal/h
Code	Diameter	Pressure Oxygen / bar	Pressure PB / bar	
T1 - dizna No 1	ø 12	1-2	0,5	22-44
T2 - dizna No 2	ø 16	2-3	0,5	33-70
T3 - dizna No 3	ø 18	3-5	1	49-127
T4 - dizna No 4	ø 24	4-6	1	80-160
T5 - dizna No 5	ø 24	5-8	1-2	70-220

**5024 DIZNE ZA GREJANJE
METALA PLAMENOM PB/ZG**
NOZZLE FOR HEATING METAL
FLAME, PROPAN AND
NATURAL GAS

**5023 DIZNE ZA GREJANJE
METALA PLAMENOM AC**
NOZZLE FOR HEATING METAL
FLAME AC

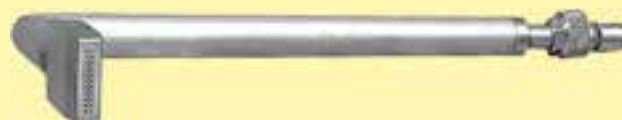
**5025 DIZNA ZA GREJANJE
u sklopu sa plamenikom br. 8**
HEATING NOZZLE
with welding torch N° 8

PROHROMSKI GREJAČ PROPAN-BUTAN VAZDUH
HEATING TORCH PROPAN-BUTAN AIR

**AC - 7045 ili PB - 7042
GRABULJE**
WARMING TORCH

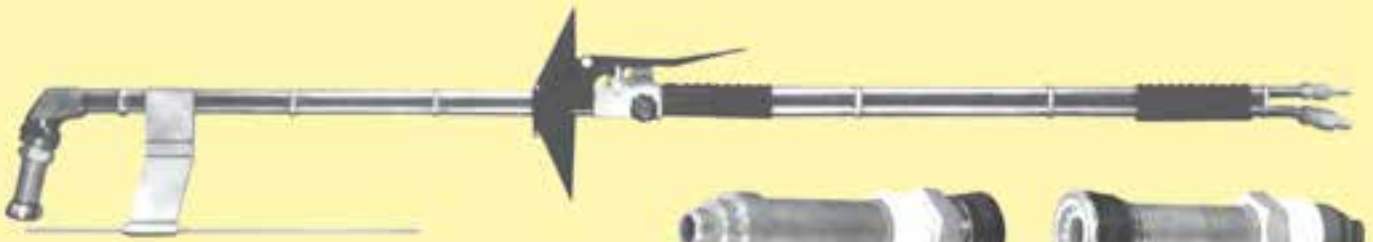


Šifra / Code	Prečnik šolje / Diameter	Dužina grejača / Length heater
GREJAČ 50	ø 50	900 mm
GREJAČ 40	ø 40	700 mm
GREJAČ 30	ø 30	500 mm



**5036 - GORIONIK ZA TERMITNO ZAVARIVANJE
ŽELEZNIČKIH ŠINA**
TORCH FOR WELDING RAILS

FLEMOVI tip A-0 FLEM TORCH type A-0



5029A-0 - flem tip A-0 za flemanje
FLEM TORCH A-0 for scarfing

5030 DIZNE ZA FLEM - Max. dužina flemovevanja: 110 mm
FLEM NOZZLES - Maximum flem length 110 mm



5029A-0R - flem tip A-0R za rezanje
FLEM TORCH A-0R for cutting

5030/2 flem dizna za rezanje čelika 3 - 400 mm
5030/6 flem dizna za rezanje čelika 3 - 650 mm
5030/2 FLEM NOZZLE for cutting 3 - 400 mm
5030/6 FLEM NOZZLE for cutting 3 - 650 mm



5029A-0RP - flem tip A-0RP za rezanje
sa pravom glavom
FLEM TORCH A-0RP for cutting with flat head

CONNECTION:
GAS-R 3/8" LH / O₂-R 1/2"

FLEM A-0 **A-0R** **A-0RP**

primenjuju se za:

- čišćenje čeličnih slabova
- žljebljenje zavarenih spojeva
- rezanje čelika do 3 - 650 mm

PURPOSE:

- cleaning of steel slabs
- gouging of welds
- cutting up to 3 - 650 mm

Dužina FLEM aparata: 1695 mm
Radni pritisci: O₂ 0-15 bar
(dinamički pritisak)
protok (m/h) 140
PB/ZG: 0,8-1 bar
O₂ crevo Ø13 mm; G 1/2 R
PB crevo Ø8 mm; G 3/8 L

FLEM device length : 1695 mm
- Work pressure : O₂ 0-15 bar
(Dynamic pressure), flow (m/h) 140
- Propan - Butane (Natural gas) : 0.8-1 bar
- O₂ tubes ø 13 mm; G 1/2 R
- Propan - Butane tubes ø 8 mm G 3/8 L
- Cutting thickness up to 3 - 650 mm



5030/2 flem dizna za rezanje čelika 3 - 400 mm
5030/6 flem dizna za rezanje čelika 3 - 650 mm
5030/2 FLEM NOZZLE for cutting 3- 400 mm
5030/6 FLEM NOZZLE for cutting 3 - 650 mm

FLEMOVI A-1, A-2 FLEM TORCH



CONNECTION:
GAS-R 3/8" LH / O₂-R1/2"

5029 A-1 FLEM ZA FLEMANJE

FLEM for scarfing

PRIMENJUJE SE ZA:

- čišćenje čeličnih slabova
- žljebljenje zavarenih spojeva
- rezanje čelika do 3 - 650 mm

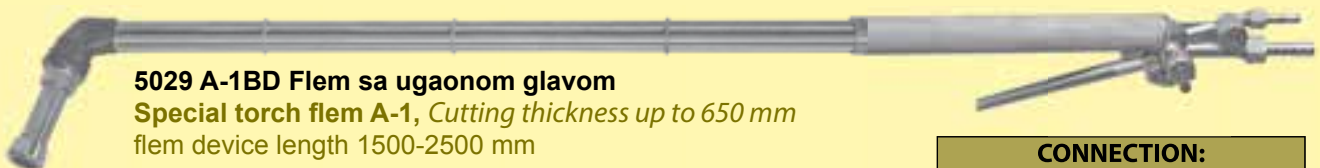
PURPOSE:

- cleaning of steel slabs
- gouging of welds
- cutting up to 3 - 650 mm

Dužina FLEM aparata: 1500 mm
Radni pritisci: O₂ do 15 bar
(dinamički pritisak)
protok (m/h) 140
PB/ZG: 0,8-1 bar
O₂ crevo Ø13 mm; G 1/2 R
PB crevo Ø8 mm; G 3/8 L

5030 flem dizna
FLEM NOZZLE

FLEM device length : 1500 mm
- Work pressure : O₂ - 15 bar
(Dynamic pressure), flow (m/h) 140
- Propan - Butane (Natural gas) : 0.8-1 bar
- O₂ tubes ø 13 mm; G 1/2 R
- Propan - Butane tubes ø 8 mm G 3/8 L
- Cutting thickness up to 3 - 650 mm



5029 A-1BD FLEM sa ugaonom glavom

Special torch flem A-1, Cutting thickness up to 650 mm

flem device length 1500-2500 mm

CONNECTION:
GAS-R 3/8" LH / O₂-R1/2"

5030/2 flem dizna za rezanje čelika 3 - 400 mm

5030/6 flem dizna za rezanje čelika 3 - 650 mm

5030/2 FLEM NOZZLE for cutting 3 - 400 mm

5030/6 FLEM NOZZLE for cutting 3 - 650 mm



5030/7 višepламена flem dizna za rezanje 3 - 650 mm

FLEM NOZZLE for cutting 3 - 650 mm

5031A-2RP FLEM sa pravom glavom

Namena: rezanje metala od 3 - 650 mm

Karakteristike: koristi gorivi gas PB; ZG razdvojen O₂ za grejanje i rezanje što omogućava efikasno rezanje velikih debljina metala.

Priključne mere: PB; ZG R3/8L, O₂-grejni R3/8, O₂-reznici R3/8; crevo crveno PB, ZG Ø 8, crevo O₂ grejanje Ø 8, crevo O₂ rezanje Ø 10.

5031A-2RP FLEM TORCH with flat head

Purpose: cutting 3 - 650 mm

Characteristics: use fuel gas PB; NG separated oxygen cutting and heating allows good cut large thicknesses.

Connecting dimensions: PB; NG R3/8L, heating oxygen R3/8, cutting oxygen R3/8; Red Hose PB, NG Ø 8

Heating oxygen hose Ø 8

Cutting oxygen hose Ø 10.



CONNECTION:
GAS-R 3/8" LH / O₂-R1/2"

5040 FLEM A5 PB/ZG

Primenjuje se za čišćenje čeličnih slabova i rezanje čelika od 3 - 650 mm. Koristi diznu **5035/5**

5040 FLEM A5 PB/natural gas applied for cleaning steel and cutting steel 3 - 650 mm

5035/5 FLEM DIZNA ZA FLEMANJE ČELIKA, maksimalne dužine 110 mm
FLEM NOZZLES - maximum flem length 110 mm

MAŠINSKI GORIONICI ZA REZANJE METALA

EQUIPMENT FOR MACHINE METAL CUTTING

CONNECTION: GAS-R 3/8" LH / O₂-R1/4" / O₂-R3/8"

1022 MAŠINSKI GORIONIK BLIC L 250 mm za inektorsku diznu
Machine cutting torch BLIC L-250mm mixing gas in nozzle



2431 INEKTORSKE DIZNE PB/ZG

Extended mixing gas nozzle propane, nat.gas.



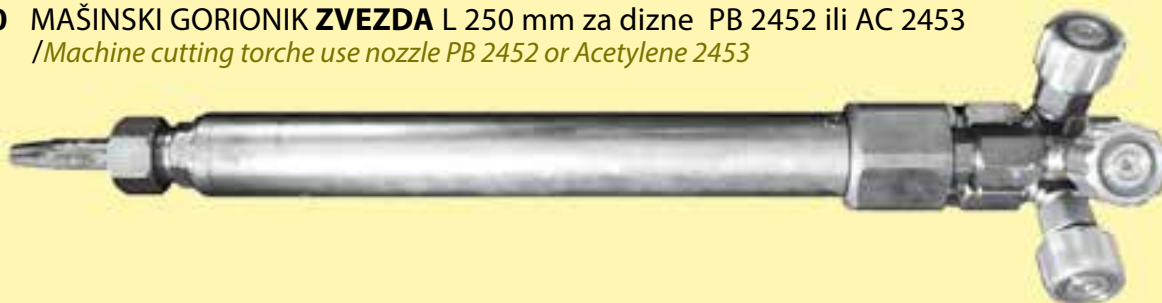
INEKTORSKA DIZNA PB/ZG koristi se i kod ručnih i kod mašinskih gorionika
Mixing gas nozzle propan , nat.gas. Used with the hand and machine torch

Znatna ušteda u utrošku gorivog gasa i kiseonika .
 Radni vek dizne produžen.
 Dizne su namenjene za rad u svim radnim uslovima, sprečavaju povratni udar plamena u gorionik.

Thickness mm	Code	Oxygen		Pressure Pb/zg	Cutting Speed mm/min	Consumption of propan butane	Consumption Oxygen heating m ³ /h	Consumption Oxygen cutting m ³ /h
		H	C					
1-10/0	2431/0	1bar	1.5-2 bar	0.2bar	660-540	0.15	0.3	1 - 1.3
10-25/1	2431/1	1bar	2.5-3 bar	0.2bar	540-370	0.15	0.3	1.7 - 2
25-50/2	2431/2	1bar	3-4 bar	0.2bar	370-300	0.15	0.3	2 - 2.3
40-80/3	2431/3	1bar	3-4.5 bar	0.5bar	300-250	0.3	0.3	2.8 - 3.5
80-150/4	2431/4	1bar	3.5-5.5 bar	0.5bar	250-190	0.3	0.46	4 - 8
150-200/5	2431/5	1bar	4.5-5.5 bar	0.5bar	190-150	0.3	0.46	5 - 9
200-300/6	2431/6	1bar	5-6.5 bar	0.5bar	150-80	0.3	0.46	6-10

*A considerable savings of gas. Extension lifetime.
 Designed are for operation in all working conditions and can prevent blow-back flame.*

2460 MAŠINSKI GORIONIK ZVEZDA L 250 mm za dizne PB 2452 ili AC 2453
/Machine cutting torche use nozzle PB 2452 or Acetylene 2453



2452 DIZNA SA RAVNIM NALEGANJEM PB/ZG

2453 DIZNA SA RAVNIM NALEGANJEM AC

DIZNE ZA MAŠINSKO REZANJE GORIONIKOM 2460
Nozzle for machine torch 2460



Debljina rezanja mm	Oznaka dizne		Pritisak kiseonika Bar ZA REZANJE	Pritisak kiseonika Bar ZA GREJANJE	Pritisak PB/ZG Bar
	Code nozzles				
Thickness mm	PB	AC	Oxygene presure cutting	Oxygene presure heating	Pressure PB
1-10	2452/0	2453/0	1.5-2	1	0.2
10-25	2452/1	2453/1	2.5-3	1	0.2
25-50	2452/2	2453/2	3-4	1	0.2
40-80	2452/3	2453/3	3-4.5	1	0.2
80-150	2452/4	2453/4	3.5-5.5	1.5	0.2
150-200	2452/5	2453/5	4.5-5.5	2	0.5
200-300	2452/6	2453/6	5-6	2	0.5

Dužina gorionika i priključne mere po zahtevu kupca
Torch lenght and connectors measures on customer demand

OPREMA ZA MAŠINSKO GASNO REZANJE METALA

EQUIPMENT FOR MACHINE GAS CUTTING METAL

Mašinski gorionici S1.1 (250 mm) i S1.2 (110 mm) za rezanje čeličnih limova debljine 3-300 mm namenjenih za ugradnju na mašine za sečenje kao i na samohodne rezače (prihvatna mera od $\varnothing 32$ mm).
Kao gorivi gas koriste acetilen, propan-butan ili zemni gas.

S1.1 type (250mm) and S1.2 Type (110mm) machine ($\varnothing 32$) cutting torch, intended for cutting machines and semi-automatic cutting devices, for 3-300mm thick steel sheets by use of acetylene, propane-butane or natural gas.

Gorionik S 1.3 za samohodni rezač za rezanje čeličnih limova debljine 3-150 mm na acetilen, propan-butan i zemni gas.
Prihvatna mera $\varnothing 27$.

S1.3 torch, intended for semi automatic devices, for cutting of 3-150 mm. Use acetylene, propane-butane, natural gas.

CONNECTION: GAS-R 3/8"LH / O₂-R1/4" / O₂-R3/8"



GORIONIK S 1.1
AC - **1001**
PB i ZG - **1002**

*MACHINE CUTTING
TORCH S1.1
Propan, Natural gas, AC*



GORIONIK S 1.2
AC - **1011**
PB i ZG - **1012**

*MACHINE CUTTING
TORCH S1.2
Propan, Natural gas, AC*



1021 GORIONIK S 1.3
*MACHINE CUTTING
TORCH S1.3
Propan, Natural gas, AC*



M21x1.5

Acetilen



M8



M21x1.5

Propan - Butan



M8



1003 ADAPTER ZA MAŠINSKI GORIONIK S1 za dva reza
ADAPTER FOR MACHINE TORCH 1003 ADAPTER for two cutts

	DEBLJINA METALA mm <i>THICKNESS</i>	ŠIFRE <i>CODE</i>	
		AC	PB
UNUTRAŠNJA <i>INNER</i>	3-10	1101	1111
	10-25	1102	1112
	25-40	1103	1113
	40-60	1104	1114
	60-100	1105	1115
	100-200	1106	1116
	200-300	1107	1117
SPOLJNA <i>OUTTER</i>	3-100	1120	1118
	100-300	1121	1119



**1723 GUMENO ARMIRANO CREVO
ZA REZANJE I ZAVARIVANJE
METALA Ø8 AC crveno do 20 bara**
*RUBBER HOSE FOR CUTTING AND
WELDING METALS Ø8 AC red 20 bar*



**1724 GUMENO ARMIRANO CREVO
ZA REZANJE I ZAVARIVANJE
METALA Ø6 O2 plavo do 20 bara**
*RUBBER HOSE FOR CUTTING AND
WELDING METALS Ø6 O2 blue 20 bar*



O2 - 3001 i AC/PB - 3002
Razvodnik gasova sa ventilima
GAS DISTRIBUTOR WITH VALVES

**CONNECTION:
GAS-R 3/8" LH / O2-R1/4"**



7026 DRŽAČ ELEKTRODE TIP G-22 do 600 A
ELECTRODE HOLDER - TYPE G-22 up to 600 A



2413 DRŽAČ ELEKTRODE TIP G-20 do 400 A
ELECTRODE HOLDER - TYPE G-20 up to 400 A

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