MIG/MAG welding torch system "ABIROB[®] 350 GC" air-cooled



"Sturdy, durable & economic ..."

ABIROB® 350 GC – in the typical design of an air-cooled CO_2 welding torch – is mainly used for automated welding in the Asian market.

The changeable torch stands for high capacity and long duty cycles. Its intelligent interface guarantees fast and reproducible maintenance and thus avoids downtimes.

The welding torch system is available for all standard wire feeder connections (ABICOR BINZEL[®], MOTOMAN[®], PANASONIC[®], OTC[®]).

Advantages that speak for themselves:

- Compatible with Asian CO₂ torches
- Changeable torch neck with intelligent pin fixing reduces line downtimes and costs
- Optimum temperature behaviour guarantees long service life for wear parts
- High-grade cable assemblies guarantee a long service life
- Sturdy torch design provides high crash stability

Degree of automation:



Typical areas of application:

- Automobile construction
- Suppliers (Tier 1, Tier 2)
- Bicycle industry
- Container construction

Material:

- Construction steels (coated / non-coated)
- Chrome-nickel steels
- Duplex steels
- Nickel basic materials

Robot interface:

- Conventional robot
 - (Cable assembly on the outside):
 - Robot mount CAT2
 - Fixed bracket RTM
- Hollow wrist robot
 - (Cable assembly on the inside):
 - Robot mount iCAT
 - Bracket iSTM (for robots with integrated collision software)
- Hollow wrist robot
 - (Cable assembly on the outside):
 - Robot mount CAT2
 - Fixed bracket RTM



"ABIROB[®] 350 GC" air-cooled System overview and technical data

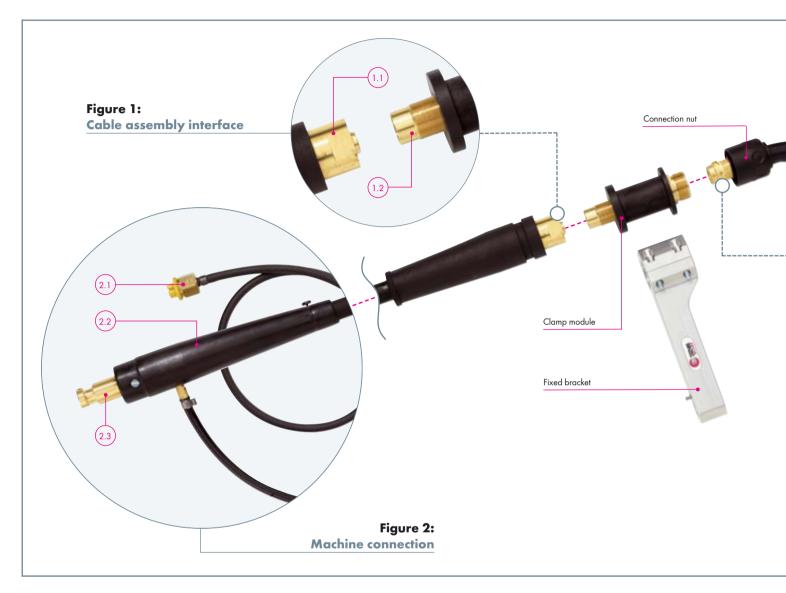


Figure 1:

Cable assembly interface

- 1.1 Straightforward attachment of the cable assembly through connection nut
- 1.2 Clamp module the holder does not need to be opened for reproducible changing of cable assembly and torch neck

Figure 2: Machine connection

- 2.1 Airblast hose with blanking plug (optional)
- 2.2 Flexible bend-protection casing for protection in every position
- 2.3 Power connection available for all standard wire feeds



Figure 3: Torch interface

- 3.1 High-grip connection nut for a fast and tight connection
- 3.2 Lock pin and groove for reproducible torch neck changing









Technical data (EN 60 974-7): ABIROB[®] 350 GC

Type of cooling: Rating:

Duty cycle: Wire-Ø: Torch geometries: air-cooled 350 A CO₂ 300 A Mixed gases M21 (EN ISO 14175) 100 % 0.8–1.2 mm 30°/35°

Note on the technical data:

Rating data were determined under normal conditions at low to medium reflected heat, free air circulation and at 28 °C ambient temperature. When used under more difficult conditions, the rating data must be reduced by 10 – 20 %. The rating data are reduced by up to 35 % for pulse arc welding.

"ABIROB[®] 350 GC" air-cooled Torch necks & wear parts

ABIROB[®] 350 GC

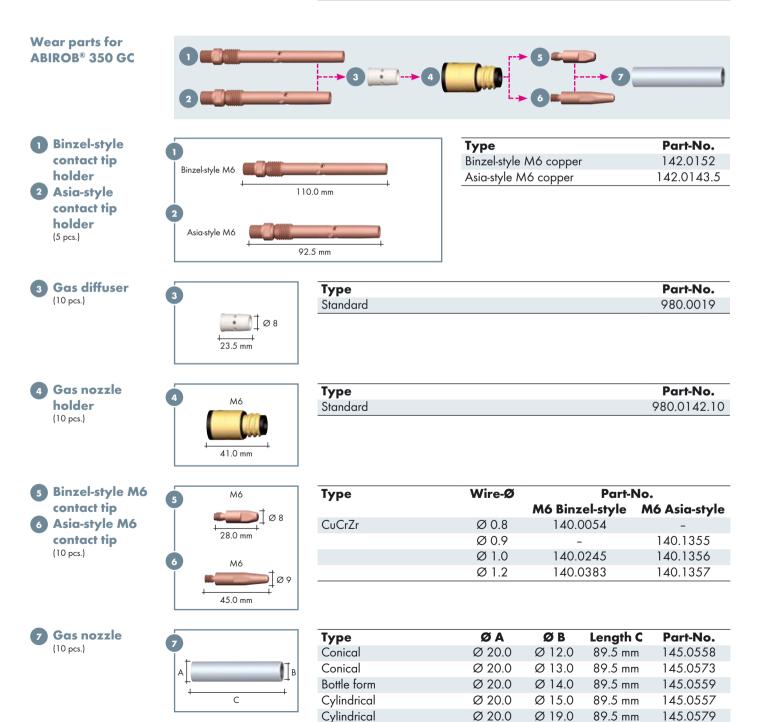


	Part-	No.
Features	30 °	35°
Standard	-	980.0004
Short	980.0027	-
Long	980.0028	-

Neck liner

Taxah naak

HUCKK IIII			
for	for torch geometry	Wire-Ø	Part-No.
Steel	35° Standard	Ø 0.8-1.2	980.0033.5
Steel	30° short	Ø 0.8-1.2	980.0035.5
Steel	30° long	Ø 0.8-1.2	980.0036.5



"ABIROB[®] 350 GC" air-cooled Cable assemblies & accessories

Panasonic[®] connection type ABICOR BINZEL[®] Euro central connection



ABICOR BINZEL® Euro central connection



Panasonic® connection type

Cable assemblies cpl.

with connection type	Length	Part-No.
ABICOR BINZEL [®] Euro central connection	1.10 m	980.0030
PANASONIC®	1.10 m	980.0029
PANASONIC®	1.25 m	980.0089

The control cable is not pre-wired at the machine end. Power source specific types on request. The red steel liner 0.8–1.2 mm is included in the scope of delivery. Please order other versions separately.

Clamp module

Cable assemblies

and connection

types

Туре	Part-No.
Clamp module 350 GC	980.0006

Liners

Туре	for connection type	Wire-Ø	to L=1.3 m
Liner steel red ¹	ABICOR BINZEL® Euro central connection	Ø 0.8-1.2	124.0145
Liner steel red ¹	PANASONIC®	Ø 1.4-1.6	124.0147
			11 // //

¹ Red steel liner (insulated) for the use of non-alloyed and low-alloyed steels. The totally insulated wire feed prevents damage caused by "micro-arcing" on the wire. This allows optimal current transfer inside the contact tube, improving the welding process. The insulated steel liner must always be used for power sources with optimal welding wire sensors. Liners for aluminium and special wires on request.

Accessories

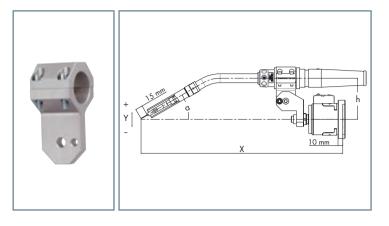


Alignment jig		
for torch type	Torch	Part-No.
	geometry	
ABIROB® 350 GC Standard	35°	837.0551

"ABIROB[®] 350 GC" air-cooled Holder and TCP geometries

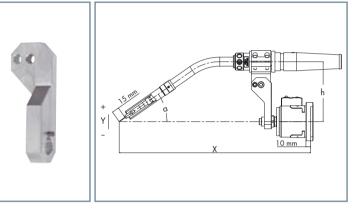
Torch holder for ABIROB[®] 350 GC

in connection with CAT2 cpl.							
Torch	Torch	Х	Y	h	a	Part-No.	
type	geometry		(mm)				
ABIROB [®]	30°	453	86	86	0°	780.0145	
350GC	35°	415	-39	86	35°	780.0145	



CAT2 holder for ABIROB[®] 350 GC

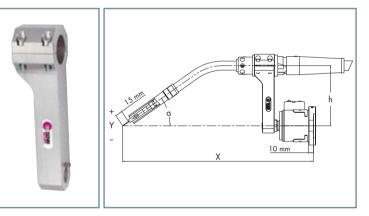
in connection with CAT2 and holder 786.0145							
Torch	Torch	Х	Y	h	a	Part-No.	
type	geometry		(mm)				
ABIROB®	30°	437	125	125	0°	780.0310	
350GC	35°	400	0	125	35°	780.0310	



Fixed bracket for ABIROB® 350 GC

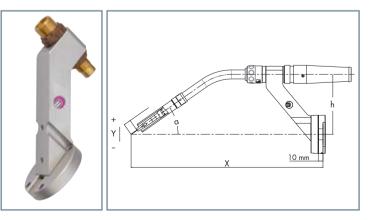
in connection with CAT2

Torch	Torch	Х	Y	h	a	Part-No.
type	geometry		(mm)			
ABIROB®	35°	400	0	125	35°	780.0309
350GC						



I-bracket for ABIROB® 350 GC

for robots with collision software							
Torch	Torch	Х	Y	h	a	Part-No.	
type	geometry		(mm)				
ABIROB®	35°	400	0	125	35°	780.0183	
350GC							



Further holders are available on request.

Please note: All the trademarks named in this brochure are the property of the respective companies.