

4



PERNI A SALDARE

WELDING STUDS

SCHWEISSBOLZEN

GOUJONS À SOUDER

PERNOS PARA SOLDAR

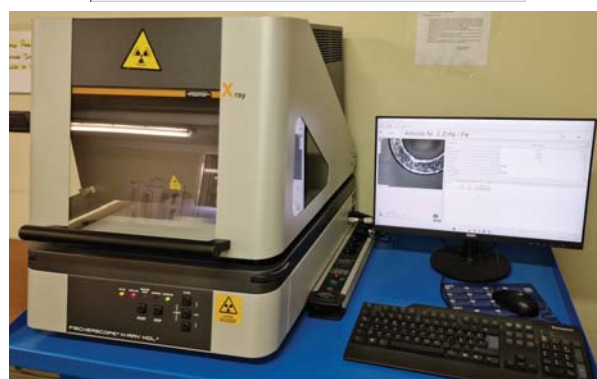
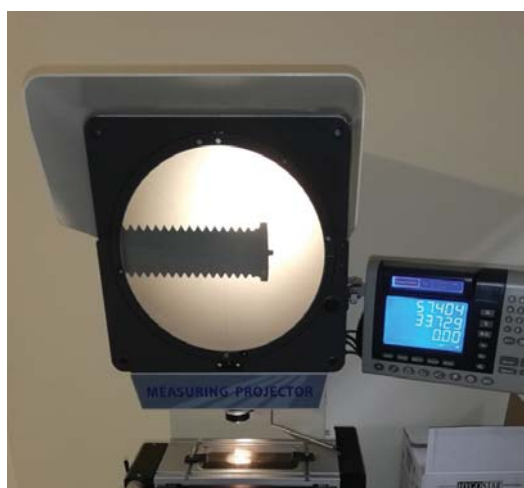
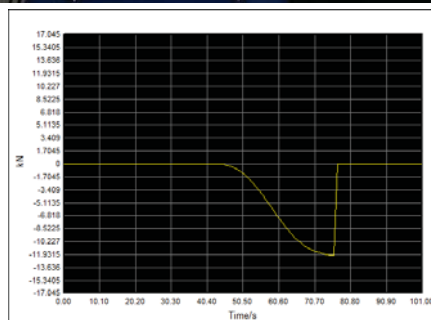
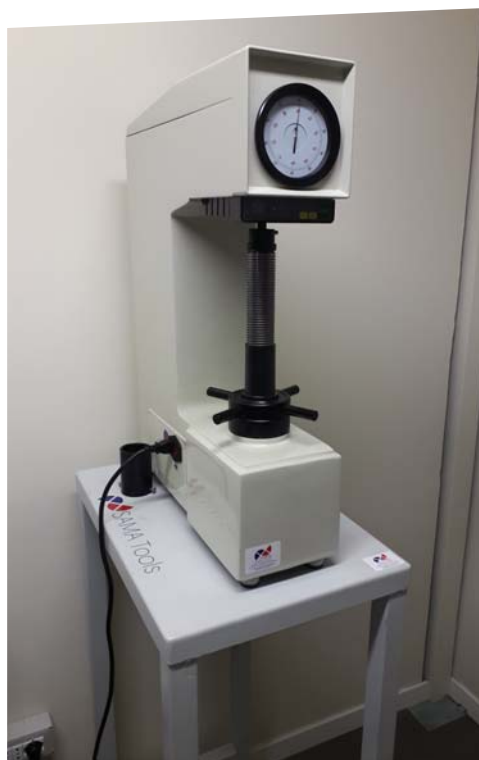
FIXI®

FASTENING SYSTEMS



Il laboratorio Fixi garantisce la conformità dei prodotti grazie ad accurati test interni con macchinari di ultima generazione.

Fixi carries out accurate testing in its own lab equipped with the latest generation machinery to ensure product conformity.



ISTRUZIONI PER LA SALDATURA A SCARICA DI CONDENSATORI
INSTRUCTIONS FOR CAPACITOR DISCHARGE WELDING
SCHWEISSANLEITUNG FÜR SPITZENZÜNDUNG
INSTRUCTIONS POUR LE SOUDAGE PAR DÉCHARGE
DE CONDENSATEURS
INSTRUCCIONES DE SOLDADURA POR DESCARGA

		Materiale della base / Workpiece Material								
		ACCIAIO fino a C35 STEEL MAX C35	ACCIAIO fino a C60 STEEL MAX C60	ACCIAIO ZINCATO STEEL ZINC PLATED	ACCIAIO INOX STAINLESS STEEL	OTTONE BRASS	RAME COPPER	Al 99,5	Al Mg3	Al Mg5
Materiale perni <i>Studs Material</i>	ACCIAIO 4.8 RAMATO <i>STEEL 4.8 COPPER PLATED</i>	OK	NO	+ / -	+/-	+/-	+/-	NO	NO	NO
	ACCIAIO INOX A2-50 <i>STAINLESS STEEL A2-50</i>	OK	+/-	+/-	OK	+/-	+/-	NO	NO	NO
	ACCIAIO INOX AISI 316* <i>STAINLESS STEEL AISI 316*</i>	OK	+/-	+/-	OK	+/-	+/-	NO	NO	NO
	ALLUMINIO AIMg3 <i>ALUMINIUM AIMg3</i>	NO	NO	NO	NO	NO	NO	+/-	OK	+/-
	OTTONE / BRASS	OK	NO	OK	+/-	OK	OK	NO	NO	NO

*Per applicazioni nei settori alimentare, chimico farmaceutico, navale, tessile e petrolchimico si consiglia l'uso dell'inox AISI 316. L'inox AISI 316 ha una resistenza alla corrosione ottima (sali, acidi, sostanze alimentari).

*We recommend the use of Stainless Steel AISI 316 for applications in the food, pharmaceutical, naval, textile and petrochemical industries. Stainless Steel AISI 316 has a high resistance to corrosion (salts, acids, food substances).

INFORMAZIONI TECNICHE

TECHNICAL INFORMATION / TECHNISCHE INFORMATIONEN INFORMATION TECHNIQUE / INFORMACION TECNICA

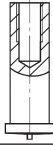
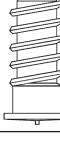
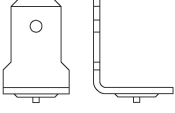
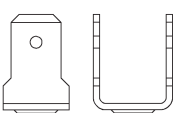
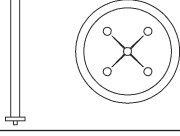
			M3	M4	M5	M6	M8	M10	M12	M16
Materiale perni / Studs Material	ACCIAIO 4.8 RAMATO <i>STEEL 4.8 COPPER PLATED</i>	Carico di trazione sul filetto (kN) <i>Pull-out force (kN)</i>	1,1	1,8	3,0	4,3	8,0	13,0	19,0	35,0
		Coppia di serraggio raccomandata (Nm) <i>Recommended tightening torque (Nm)</i>	0,8	0,8	3,6	6,1	15,0	30,0	53,0	135,0
	ACCIAIO INOX A2-50 <i>STAINLESS STEEL A2-50</i>	Carico di trazione sul filetto (kN) <i>Pull-out force (kN)</i>	0,7	0,7	1,9	2,7	4,9	7,8	12,0	22,0
		Coppia di serraggio raccomandata (Nm) <i>Recommended tightening torque (Nm)</i>	0,5	0,5	2,3	3,8	9,5	19,0	33,0	82,0
	ACCIAIO INOX AISI 316 <i>STAINLESS STEEL AISI 316</i>	Carico di trazione sul filetto (kN) <i>Pull-out force (kN)</i>	0,7	0,7	1,9	2,7	4,9	7,8	12,0	22,0
		Coppia di serraggio raccomandata (Nm) <i>Recommended tightening torque (Nm)</i>	0,5	0,5	2,3	3,8	9,5	19,0	33,0	82,0
	ALLUMINIO AIMg3 <i>ALUMINIUM AIMg3</i>	Carico di trazione sul filetto (kN) <i>Pull-out force (kN)</i>	0,5	0,5	1,6	2,2	4,0			
		Coppia di serraggio raccomandata (Nm) <i>Recommended tightening torque (Nm)</i>	0,4	0,4	1,9	3,1	7,5			
	OTTONE <i>BRASS</i>	Carico di trazione sul filetto (kN) <i>Pull-out force (kN)</i>	0,8	0,8	2,3	3,2	6,0			
		Coppia di serraggio raccomandata (Nm) <i>Recommended tightening torque (Nm)</i>	0,6	0,6	2,7	4,5	11,0			

I valori indicati in tabella permettono di non deformare gli elementi da unire.

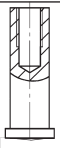
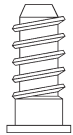
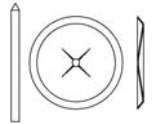
The values indicated in the table will not deform the parts to be joined.

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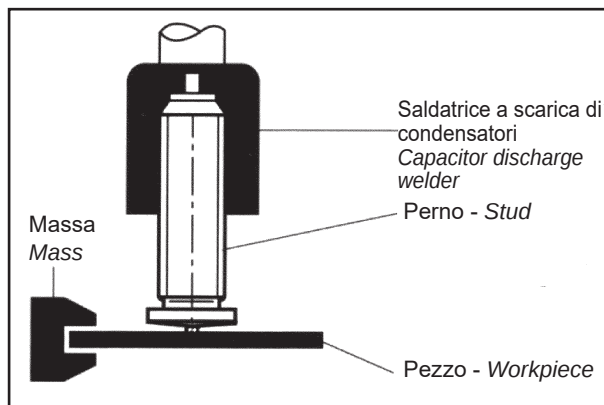
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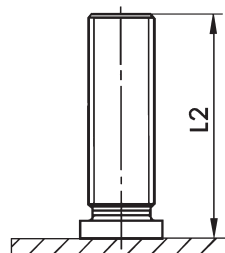
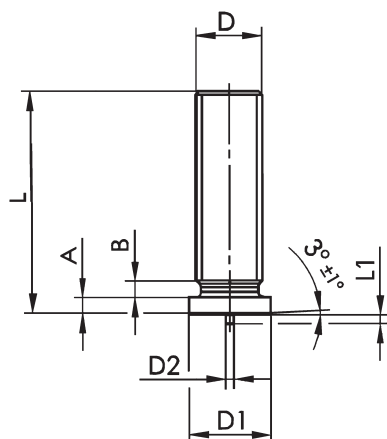
PERNI FILETTATI A SALDARE A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE WELDING STUDS WITH THREAD
GEWINDEBOLZEN FÜR SPITZENZÜNDUNG
GOUJONS FILETÉS À SOUDER PAR DÉCHARGE
DE CONDENSATEURS
PERNOS CON ROSCA EXTERIOR PARA SOLDAR CON DESCARGA

DIN EN ISO 13918

PT



PRIMA DELLA SALDATURA
 BEFORE WELDING
 VOR DEM SCHWEISSEN
 AVANT SOUDAGE
 ANTES DE SOLDAR



DOPO LA SALDATURA
 AFTER WELDING
 NACH DEM SCHWEISSEN
 APRÈS SOUDAGE
 DESPUES DE SOLDAR

D	L + 0,6	D1 ± 0,2	D2 ± 0,08	L1 ± 0,05	A	B max	L2
M3	vedi pag. 7 - 8 see page 7 - 8	4,5	0,60	0,55	0,7-1,4	0,6	L-0,3
M4		5,5	0,65			1	
M5		6,5	0,80	0,8-1,4			
M6		7,5			0,85	2	
M8		9,0		0,6-1,8			
* M10		11,0				L-0,6	
* M12		12,6					

* M10 - * M12 FIXI STANDARD

PERNI PER LA VERNICIATURA A RICHIESTA
 CAPACITOR DISCHARGE GROOVE STUDS
 FOR PAINTING ON REQUEST
 LACKBOLZEN AUF ANFRAGE
 GOUJONS AVEC RAINURE SUR DEMANDE
 PERNOS SOLDAR LACQUER GROOVE BAJO SOLICITUD



ACCIAIO 4.8 RAMATO COPPER PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREADO			ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50			INOX AISI 316 STAINLESS STEEL AISI316 ROSTFREIER STAHL AISI 316 INOX AISI 316 INOX AISI 316			ALLUMINIO AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIO AIMg3			OTTONE CuZn37 BRASS CuZn37 MESSING CuZn37 LAITON CuZn37 LATÓN CuZn37		
Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code
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ACCIAIO 4.8 RAMATO COPPER PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREADO			ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50			INOX AISI 316 STAINLESS STEEL AISI316 ROSTFREIER STAHL AISI 316 INOX AISI 316 INOX AISI 316			ALLUMINIO AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIO AIMg3			OTTONE CuZn37 BRASS CuZn37 MESSING CuZn37 LAITON CuZn37 LATON CuZn37		
Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code
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	20	03ARPR1220		20	03IXPR1220		20	03IXPR1220		20	03ALPR1220		20	03OTPR1220
	25	03ARPR1225		25	03IXPR1225		25	03IXPR1225		25	03ALPR1225		25	03OTPR1225
	30	03ARPR1230		30	03IXPR1230		30	03IXPR1230		30	03ALPR1230		30	03OTPR1230
	35	03ARPR1235		35	03IXPR1235		35	03IXPR1235		35	03ALPR1235		35	03OTPR1235
	40	03ARPR1240		40	03IXPR1240		40	03IXPR1240		40	03ALPR1240		40	03OTPR1240

BUSSOLE FILETTATE A SALDARE A SCARICA DI CONDENSATORI

CAPACITOR DISCHARGE TAPPED STUDS

INNENGEWINDEBUCHSEN FÜR SPITZENZÜNDUNG

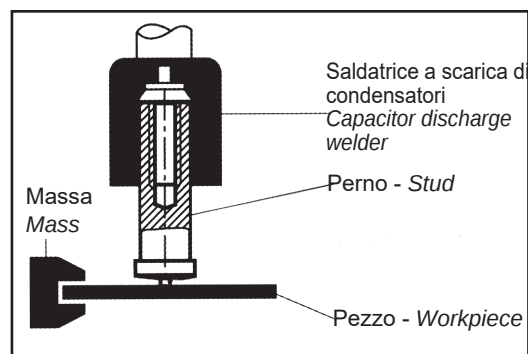
DOUILLES TARAUDÉES À SOUDER PAR DÉCHARGE

DE CONDENSATEURS

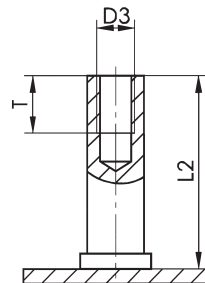
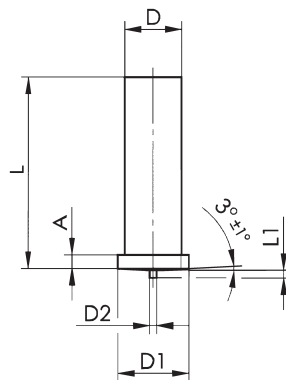
PERNOS CON ROSCA INTERIOR PARA SOLDAR CON DESCARGA

DIN EN ISO 13918

IT



PRIMA DELLA SALDATURA
BEFORE WELDING
VOR DEM SCHWEISSEN
AVANT SOUDAGE
ANTES DE SOLDAR



DOPO LA SALDATURA
AFTER WELDING
NACH DEM SCHWEISSEN
APRÈS SOUDAGE
DESPUES DE SOLDAR

D ± 0,1	L + 0,3	D1 ± 0,2	D2 ± 0,08	L1 ± 0,05	A	D3	T + 0,5	L2
ø5	vedi pag. 10 see page 10	6,5	0,75	0,80	0,7-1,4	M3	5	L-0,3
ø6		7,5				M4	6	
ø7,1		9		0,85	0,8-1,4	M5	7,5	
* ø8						M6		
* ø10,8		11,6			0,6-1,8	M8	10	

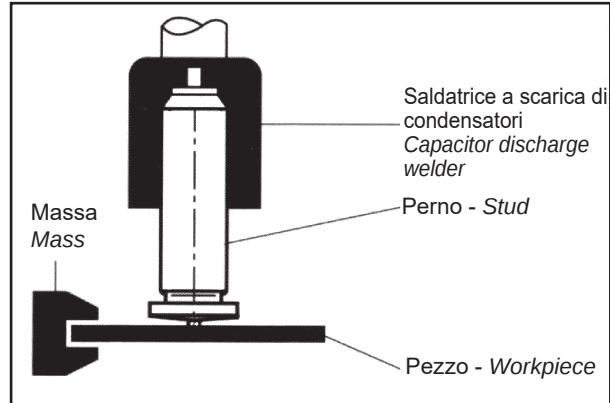
* ø8 - * ø10 FIXI STANDARD

ACCIAIO 4.8 RAMATO COPPER PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREADO			ACCIAIO INOX STAINLESS STEEL ROSTFREIER STAHL INOX INOX			ALLUMINIO AlMg3 ALUMINIUM AlMg3 ALUMINIUM AlMg3 ALUMINIUM AlMg3 ALUMINIO AlMg3			OTTONE CuZn37 BRASS CuZn37 MESSING CuZn37 LAITON CuZn37 LATÓN CuZn37		
Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code
M3	6	03ARBU3506	M3	6	03IXBU3506	M3	6	03ALBU3506	M3	6	03OTBU3506
	8	03ARBU3508		8	03IXBU3508		8	03ALBU3508		8	03OTBU3508
	10	03ARBU3510		10	03IXBU3510		10	03ALBU3510		10	03OTBU3510
	12	03ARBU3512		12	03IXBU3512		12	03ALBU3512		12	03OTBU3512
	15	03ARBU3515		15	03IXBU3515		15	03ALBU3515		15	03OTBU3515
	16	03ARBU3516		16	03IXBU3516		16	03ALBU3516		16	03OTBU3516
	20	03ARBU3520		20	03IXBU3520		20	03ALBU3520		20	03OTBU3520
	25	03ARBU3525		25	03IXBU3525		25	03ALBU3525		25	03OTBU3525
	30	03ARBU3530		30	03IXBU3530		30	03ALBU3530		30	03OTBU3530
M4	8	03ARBU4608	M4	8	03IXBU4608	M4	8	03ALBU4608	M4	8	03OTBU4608
	10	03ARBU4610		10	03IXBU4610		10	03ALBU4610		10	03OTBU4610
	12	03ARBU4612		12	03IXBU4612		12	03ALBU4612		12	03OTBU4612
	15	03ARBU4615		15	03IXBU4615		15	03ALBU4615		15	03OTBU4615
	16	03ARBU4616		16	03IXBU4616		16	03ALBU4616		16	03OTBU4616
	20	03ARBU4620		20	03IXBU4620		20	03ALBU4620		20	03OTBU4620
	25	03ARBU4625		25	03IXBU4625		25	03ALBU4625		25	03OTBU4625
	30	03ARBU4630		30	03IXBU4630		30	03ALBU4630		30	03OTBU4630
M5	35	03ARBU4635		35	03IXBU4635		35	03ALBU4635		35	03OTBU4635
	40	03ARBU4640		40	03IXBU4640		40	03ALBU4640		40	03OTBU4640
M5	10	03ARBU5710	M5	10	03IXBU5710	M5	10	03ALBU5710	M5	10	03OTBU5710
	12	03ARBU5712		12	03IXBU5712		12	03ALBU5712		12	03OTBU5712
	15	03ARBU5715		15	03IXBU5715		15	03ALBU5715		15	03OTBU5715
	16	03ARBU5716		16	03IXBU5716		16	03ALBU5716		16	03OTBU5716
	20	03ARBU5720		20	03IXBU5720		20	03ALBU5720		20	03OTBU5720
	25	03ARBU5725		25	03IXBU5725		25	03ALBU5725		25	03OTBU5725
	30	03ARBU5730		30	03IXBU5730		30	03ALBU5730		30	03OTBU5730
	35	03ARBU5735		35	03IXBU5735		35	03ALBU5735		35	03OTBU5735
	40	03ARBU5740		40	03IXBU5740		40	03ALBU5740		40	03OTBU5740
M6	10	03ARBU6810	M6	10	03IXBU6810	M6	10	03ALBU6810	M6	10	03OTBU6810
	12	03ARBU6812		12	03IXBU6812		12	03ALBU6812		12	03OTBU6812
	15	03ARBU6815		15	03IXBU6815		15	03ALBU6815		15	03OTBU6815
	16	03ARBU6816		16	03IXBU6816		16	03ALBU6816		16	03OTBU6816
	20	03ARBU6820		20	03IXBU6820		20	03ALBU6820		20	03OTBU6820
	25	03ARBU6825		25	03IXBU6825		25	03ALBU6825		25	03OTBU6825
	30	03ARBU6830		30	03IXBU6830		30	03ALBU6830		30	03OTBU6830
	35	03ARBU6835		35	03IXBU6835		35	03ALBU6835		35	03OTBU6835
M8	40	03ARBU6840		40	03IXBU6840		40	03ALBU6840		40	03OTBU6840
	15	03ARBU81015	M8	15	03IXBU81015	M8	15	03ALBU81015	M8	15	03OTBU81015
	16	03ARBU81016		16	03IXBU81016		16	03ALBU81016		16	03OTBU81016
	20	03ARBU81020		20	03IXBU81020		20	03ALBU81020		20	03OTBU81020
	25	03ARBU81025		25	03IXBU81025		25	03ALBU81025		25	03OTBU81025
	30	03ARBU81030		30	03IXBU81030		30	03ALBU81030		30	03OTBU81030
	35	03ARBU81035		35	03IXBU81035		35	03ALBU81035		35	03OTBU81035
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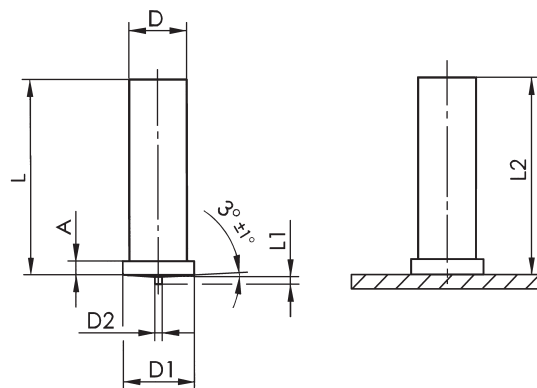
PERNI LISCI A SALDARE A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE WELDING PINS WITHOUT THREAD
GOUJONS LISSES À SOUDER PAR DÉCHARGE
DE CONDENSATEURS
PERNOS SIN ROSCA PARA SOLDAR CON DESCARGA

DIN EN ISO 13918

UT



PRIMA DELLA SALDATURA
 BEFORE WELDING
 VOR DEM SCHWEISSEN
 AVANT SOUDAGE
 ANTES DE SOLDAR



DOPO LA SALDATURA
 AFTER WELDING
 NACH DEM SCHWEISSEN
 APRÈS SOUDAGE
 DESPUES DE SOLDAR

D ± 0,1	L + 0,6	D1 ± 0,2	D2 ± 0,08	L1 ± 0,05	A	L2
ø3	vedi pag. 12 <i>see page 12</i>	4,5	0,60	0,55	0,7-1,4	L-0,3
ø4		5,5	0,65			
ø5		6,5	0,75	0,80		
ø6		7,5				
ø7,1		9,0		0,85	0,8-1,4	
ø8		11,6			0,8-1,8	L-0,6
* ø10,8						

* ø10,8 FIXI STANDARD

ACCIAIO 4.8 RAMATO
 COPPER PLATED STEEL 4.8
 STAHL 4.8 VERKUPFERT
 ACIER 4.8 CUIVRE
 ACERO 4.8 COBREDO

Diametro Diameter	Lunghezza Length	Codice Code
Ø 3	6	03ARPL306
	8	03ARPL308
	10	03ARPL310
	12	03ARPL312
	15	03ARPL315
	16	03ARPL316
	20	03ARPL320
	25	03ARPL325
Ø 4	30	03ARPL330
	6	03ARPL406
	8	03ARPL408
	10	03ARPL410
	12	03ARPL412
	15	03ARPL415
	16	03ARPL416
	20	03ARPL420
Ø 5	25	03ARPL425
	30	03ARPL430
	35	03ARPL435
	8	03ARPL508
	10	03ARPL510
	12	03ARPL512
	15	03ARPL515
	16	03ARPL516
Ø 6	20	03ARPL520
	25	03ARPL525
	30	03ARPL530
	35	03ARPL535
	40	03ARPL540
	50	03ARPL550
	8	03ARPL608
	10	03ARPL610
Ø 7,1	12	03ARPL612
	15	03ARPL615
	16	03ARPL616
	20	03ARPL620
	25	03ARPL625
	30	03ARPL630
	35	03ARPL635
	40	03ARPL640
Ø 8	45	03ARPL645
	50	03ARPL650
	10	03ARPL710
	12	03ARPL712
	15	03ARPL715
	16	03ARPL716
	20	03ARPL720
	25	03ARPL725
Ø 10,8	30	03ARPL730
	35	03ARPL735
	40	03ARPL740
	45	03ARPL745
	50	03ARPL750
	55	03ARPL755
	12	03ARPL812
	15	03ARPL815
Ø 10,8	16	03ARPL816
	20	03ARPL820
	25	03ARPL825
	30	03ARPL830
	35	03ARPL835
	40	03ARPL840
	15	03ARPL1015
	20	03ARPL1020
Ø 10,8	25	03ARPL1025
	30	03ARPL1030
	35	03ARPL1035
	40	03ARPL1040

ACCIAIO INOX A2-50
 STAINLESS STEEL A2-50
 ROSTFREIER STAHL A2-50
 INOX A2-50
 INOX A2-50

Diametro Diameter	Lunghezza Length	Codice Code
Ø 3	6	03IXPL306
	8	03IXPL308
	10	03IXPL310
	12	03IXPL312
	15	03IXPL315
	16	03IXPL316
	20	03IXPL320
	25	03IXPL325
Ø 4	30	03IXPL330
	6	03IXPL406
	8	03IXPL408
	10	03IXPL410
	12	03IXPL412
	15	03IXPL415
	16	03IXPL416
	20	03IXPL420
Ø 5	25	03IXPL425
	30	03IXPL430
	35	03IXPL435
	8	03IXPL508
	10	03IXPL510
	12	03IXPL512
	15	03IXPL515
	16	03IXPL516
Ø 6	20	03IXPL520
	25	03IXPL525
	30	03IXPL530
	35	03IXPL535
	40	03IXPL540
	50	03IXPL550
	8	03IXPL608
	10	03IXPL610
Ø 7,1	12	03IXPL612
	15	03IXPL615
	16	03IXPL616
	20	03IXPL620
	25	03IXPL625
	30	03IXPL630
	35	03IXPL635
	40	03IXPL640
Ø 8	45	03IXPL645
	50	03IXPL650
	10	03IXPL710
	12	03IXPL712
	15	03IXPL715
	16	03IXPL716
	20	03IXPL720
	25	03IXPL725
Ø 10,8	30	03IXPL730
	35	03IXPL735
	40	03IXPL740
	45	03IXPL745
	50	03IXPL750
	55	03IXPL755
	12	03IXPL812
	15	03IXPL815
Ø 10,8	16	03IXPL816
	20	03IXPL820
	25	03IXPL825
	30	03IXPL830
	35	03IXPL835
	40	03IXPL840
	15	03IXPL1015
	20	03IXPL1020
Ø 10,8	25	03IXPL1025
	30	03IXPL1030
	35	03IXPL1035
	40	03IXPL1040

ALLUMINIO AIMg3
 ALUMINIUM AIMg3
 ALUMINIUM AIMg3
 ALUMINIUM AIMg3
 ALUMINIO AIMg3

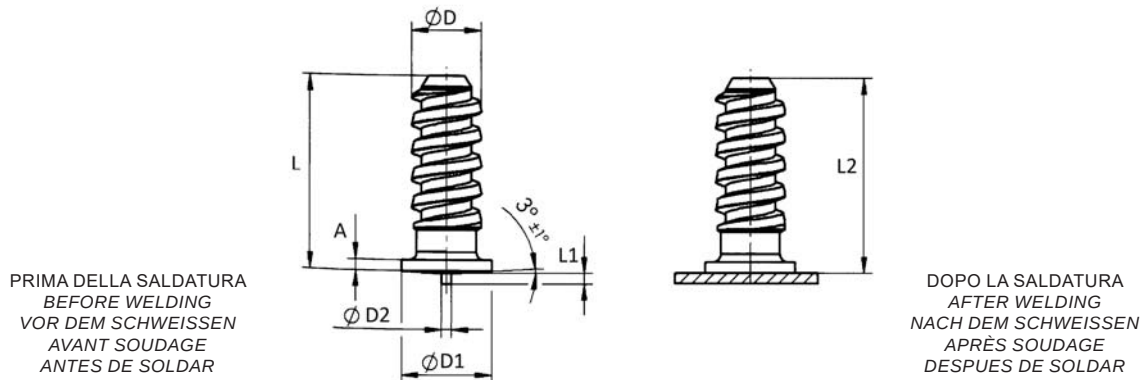
Diametro Diameter	Lunghezza Length	Codice Code
Ø 3	6	03ALPL306
	8	03ALPL308
	10	03ALPL310
	12	03ALPL312
	15	03ALPL315
	16	03ALPL316
	20	03ALPL320
	25	03ALPL325
Ø 4	30	03ALPL330
	6	03ALPL406
	8	03ALPL408
	10	03ALPL410
	12	03ALPL412
	15	03ALPL415
	16	03ALPL416
	20	03ALPL420
Ø 5	25	03ALPL425
	30	03ALPL430
	35	03ALPL435
	8	03ALPL508
	10	03ALPL510
	12	03ALPL512
	15	03ALPL515
	16	03ALPL516
Ø 6	20	03ALPL520
	25	03ALPL525
	30	03ALPL530
	35	03ALPL535
	40	03ALPL540
	50	03ALPL550
	8	03ALPL608
	10	03ALPL610
Ø 7,1	12	03ALPL612
	15	03ALPL615
	16	03ALPL616
	20	03ALPL620
	25	03ALPL625
	30	03ALPL630
	35	03ALPL635
	40	03ALPL640
Ø 8	45	03ALPL645
	50	03ALPL650
	10	03ALPL710
	12	03ALPL712
	15	03ALPL715
	16	03ALPL716
	20	03ALPL720
	25	03ALPL725
Ø 10,8	30	03ALPL730
	35	03ALPL735
	40	03ALPL740
	45	03ALPL745
	50	03ALPL750
	55	03ALPL755
	12	03ALPL812
	15	03ALPL815
Ø 10,8	16	03ALPL816
	20	03ALPL820
	25	03ALPL825
	30	03ALPL830
	35	03ALPL835
	40	03ALPL840
	15	03ALPL1015
	20	03ALPL1020
Ø 10,8	25	03ALPL1025
	30	03ALPL1030
	35	03ALPL1035
	40	03ALPL1040

OTTONE CuZn37
 BRASS CuZn37
 MESSING CuZn37
 LAITON CuZn37
 LATÓN CuZn37

Diametro Diameter	Lunghezza Length	Codice Code
Ø 3	6	03OTPL306
	8	03OTPL308
	10	03OTPL310
	12	03OTPL312
	15	03OTPL315
	16	03OTPL316
	20	03OTPL320
	25	03OTPL325
Ø 4	30	03OTPL330
	6	03OTPL406
	8	03OTPL408
	10	03OTPL410
	12	03OTPL412
	15	03OTPL415
	16	03OTPL416
	20	03OTPL420
Ø 5	25	03OTPL425
	30	03OTPL430
	35	03OTPL435
	8	03OTPL508
	10	03OTPL510
	12	03OTPL512
	15	03OTPL515
	16	03OTPL516
Ø 6	20	03OTPL520
	25	03OTPL525
	30	03OTPL530
	35	03OTPL535
	40	03OTPL540
	50	03OTPL550
	8	03OTPL608
	10	03OTPL610
Ø 7,1	12	03OTPL612
	15	03OTPL615
	16	03OTPL616
	20	03OTPL620
	25	03OTPL625
	30	03OTPL630
	35	03OTPL635
	40	03OTPL640
Ø 8	45	03OTPL645
	50	03OTPL650
	10	03OTPL710
	12	03OTPL712
	15	03OTPL715
	16	03OTPL716
	20	03OTPL720
	25	03OTPL725
Ø 10,8	30	03OTPL730
	35	03OTPL735
	40	03OTPL740
	45	03OTPL745
	50	03OTPL750
	55	03OTPL755
	12	03OTPL812
	15	03OTPL815
Ø 10,8	16	03OTPL816
	20	03OTPL820
	25	03OTPL825
	30	03OTPL830
	35	03OTPL835
	40	03OTPL840
	15	03OTPL1015
	20	03OTPL1020
Ø 10,8	25	03OTPL1025
	30	03OTPL1030
	35	03OTPL1035
	40	03OTPL1040

PERNI CON FILETTO A DENTE DI SEGA A SCARICA DI CONDENSATORI

CAPACITOR DISCHARGE WELDING STUDS WITH COARSE
GROBGEWINDEBOLZEN FÜR SPITZENZÜNDUNG
GOIJONS SAPIN PAR DÉCHARGE DE CONDENSATEURS
PERNOS DE VARILLA PARA SOLDAR CON DESCARGA



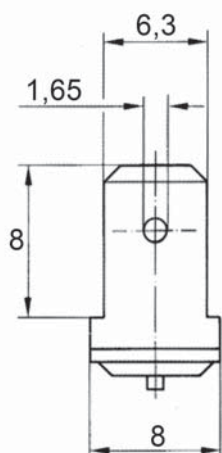
D	L + 0,6	D1 ± 0,2	D2 ± 0,08	L1 ± 0,05	A	L2
ø5	vd. sotto see below	6,5	0,75	0,8	1,4-0,6	L1-0,3

ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRÉ ACERO 4.8 COBREDO			ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50			ALLUMINIO AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIO AIMg3		
Diametro Diameter	Lunghezza Length	Codice Code	Diametro Diameter	Lunghezza Length	Codice Code	Diametro Diameter	Lunghezza Length	Codice Code
Ø 5	9	03ARAN509	Ø 5	9	03IXAN509	Ø 5	9	03ALAN509
	14,2	03ARAN515		14,2	03IXAN515		14,2	03ALAN515
	16,5	03ARAN516		16,5	03IXAN516		16,5	03ALAN516
	18	03ARAN518		18	03IXAN518		18	03ALAN518
	25	03ARAN525		25	03IXAN525		25	03ALAN525

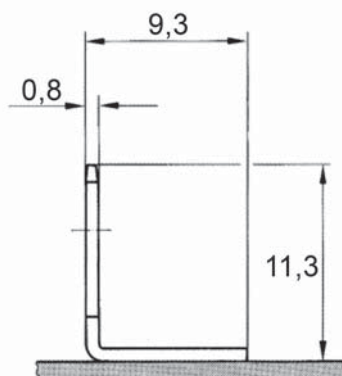
Disponibili su richiesta anche in Alluminio AIMg5

Available upon request in Aluminium AIMg5

FASTON A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE FASTON
FLACHSTECKER FÜR SPITZENZÜNDUNG
COSSE PAR DÉCHARGE DE CONDENSATEURS
FASTON PARA SOLDAR CON DESCARGA



PRIMA DELLA SALDATURA
 BEFORE WELDING
 VOR DEM SCHWEISSEN
 AVANT SOUDAGE
 ANTES DE SOLDAR



DOPO LA SALDATURA
 AFTER WELDING
 NACH DEM SCHWEISSEN
 APRÈS SOUDAGE
 DESPUES DE SOLDAR

FASTON SINGOLO
SINGLE FLAT PLUG TYP F1
FLACHSTECKER
COSSE SIMPLE
FASTON SIMPLE

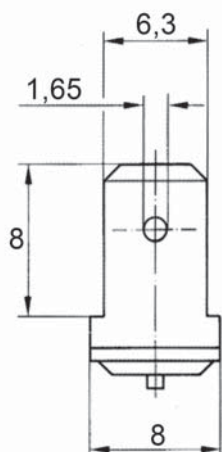


ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREDO
Codice Code
03ARFS

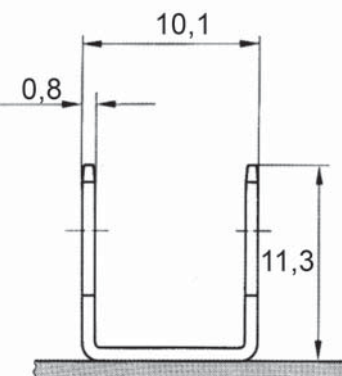
ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50
Codice Code
03IXFS

ALLUMINIO AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIO AIMg3
Codice Code
03ALFS

OTTONE CuZn37 BRASS CuZn37 MESSING CuZn37 LAITON CuZn37 LATÓN CuZn37
Codice Code
03CUFS



PRIMA DELLA SALDATURA
 BEFORE WELDING
 VOR DEM SCHWEISSEN
 AVANT SOUDAGE
 ANTES DE SOLDAR



DOPO LA SALDATURA
 AFTER WELDING
 NACH DEM SCHWEISSEN
 APRÈS SOUDAGE
 DESPUES DE SOLDAR

FASTON DOPPIO
DOUBLE FLAT PLUG TYP F2
DOPPEL FLACHSTECKER
COSSE DOUBLE
FASTON DOBLE



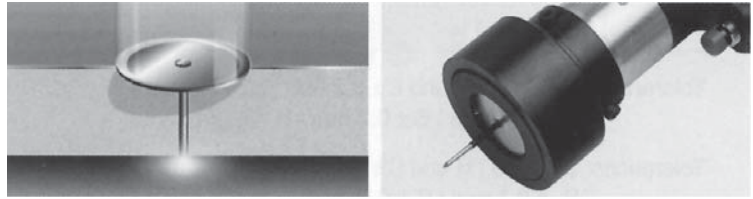
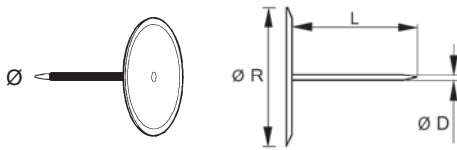
ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREDO
Codice Code
03ARFD

ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50
Codice Code
03IXFD

ALLUMINIO AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIO AIMg3
Codice Code
03ALFD

OTTONE CuZn37 BRASS CuZn37 MESSING CuZn37 LAITON CuZn37 LATÓN CuZn37
Codice Code
03CUFD

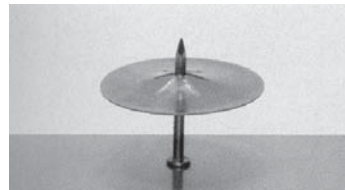
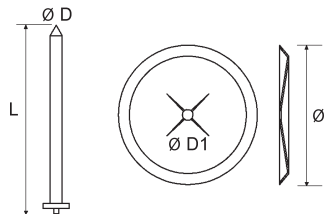
ARPIONCINI PER ISOLAMENTI TERMICI
CUPPED HEAD PINS WITH INSULATION
TELLERSTIFTE MIT ISOLIERUNG
CLOU D'ISOLATION
PINS DE AISLAMIENTO



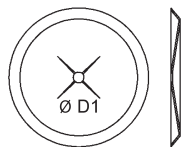
ACCIAIO 4.8 ZINCATO ZINC PLATED STEEL 4.8 STAHL VZ ACIER ZINGUÉ ACERO CINCADO		
L ± 0,2	Ø D ± 0,05	R ± 0,2
9,5 - 54	2	30
9,5 - 54	2.7	30 - 38

ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50		
L ± 0,2	Ø D ± 0,05	R ± 0,2
9,5 - 54	2	30
9,5 - 54	2.7	30 - 38

CHIODI PER ISOLAMENTO E CLIP
INSULATING NAILS AND CLIP



ACCIAIO 4.8 RAMATO COPPER PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRÉ ACERO 4.8 COBREDO				ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50				INOX AISI 316 STAINLESS STEEL AISI316 ROSTFREIER STAHL AISI 316 INOX AISI 316 INOX AISI 316				ALLUMINIO AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIUM AIMg3 ALUMINIO AIMg3			
L	Ø D	Ø D1	R	L	Ø D	Ø D1	R	L	Ø D	Ø D1	R	L	Ø D	Ø D1	R
10 - 200	2	1,8	38	10 - 200	2	1,8	38	10 - 200	2	1,8	38	10 - 200	2	1,8	38
10 - 200	2,6	2,4	38	10 - 200	2,6	2,4	38	10 - 200	2,6	2,4	38	10 - 200	2,6	2,4	38
10 - 225	3	2,8	38 - 60	10 - 225	3	2,8	38 - 60	10 - 225	3	2,8	38 - 60	10 - 150	3	2,8	38 - 60



ACCIAIO 4.8 ZINCATO ZINC PLATED STEEL 4.8 STAHL VZ ACIER ZINGUÉ ACERO CINCADO	
Ø D1	R
1,8	38 - 60
2,4	38 - 60
2,8	38 - 60

ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50	
Ø D1	R
1,8	38 - 60
2,4	38 - 60
2,8	38 - 60

SALDATRICI A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE STUD WELDERS
SCHWEISSGERÄTE FÜR SPITZENZÜNDUNG
SOUDEUSE PAR DÉCHARGE DE CONDENSATEURS
SOLDADOR POR DESCARGA

CODICE/CODE

03CD33



CARATTERISTICHE TECNICHE
TECHNICAL FEATURES

Pezzi saldabili al minuto <i>Weldable pieces per minute</i>	max 14 ÷ 45
Dimensioni corpo macchina <i>Machine body dimensions</i>	16x42x23 cm.
Alimentazione <i>Power supply</i>	230V - 50Hz
Capacità di carica <i>Charge capacity</i>	33.000 µF
Energia <i>Electricity</i>	700 Joule
Tempo max di ricarica <i>Max recharging time</i>	5,5 sec.
Potenza max assorbita <i>Max power consumption</i>	500 W
Grado di protezione <i>Degree of protection</i>	IP 23
Peso corpo macchina <i>Machine body weight</i>	12,5 Kg

UTILIZZO
CAPACITY

FILETTO <i>THREAD</i>	ALLUMINIO <i>ALUMINIUM</i>	ACCIAIO <i>STEEL</i>	INOX <i>STAINLESS STEEL</i>
M3	●	●	●
M4	●	●	●
M5		●	

CANOTTO DI APPOGGIO D. 30mm.
SUPPORT TUBE D. 30mm.
STÜTZROHR D. 30mm.
CENTREUR D. 30mm.
ACCESORIO CENTRADOR D. 30mm.



03CANCD33

CODICE
CODE

04PPM3

04PPM4

04PPM5

Porta perni
Chuck
Bolzenhalter
Mandrin
Porta terminal



PORTA PERNI PER FASTON

CHUCK FOR FLAT PLUG
BOLZENHALTER FÜR FLACHSTECKER
MANDRIN POUR COSSE
PORTA TERMINAL PARA FASTON



04PF

ANGOLARE

CORNER BRACKET
WINKELTRÄGER
MANDRIN ANGULAIRE
ESCUADRA



04A

SALDATRICI A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE STUD WELDERS
SCHWEISSGERÄTE FÜR SPITZENZÜNDUNG
SOUDEUSE PAR DÉCHARGE DE CONDENSATEURS
SOLDADOR POR DESCARGA

CODICE/CODE

03CD66



CARATTERISTICHE TECNICHE <i>TECHNICAL FEATURES</i>	
Pezzi saldabili al minuto <i>Weldable pieces per minute</i>	7 ÷ 20
Dimensioni corpo macchina <i>Machine body dimensions</i>	16x42x23 cm.
Alimentazione <i>Power supply</i>	230V - 50Hz
Capacità di carica <i>Charge capacity</i>	66.000 µF
Energia <i>Electricity</i>	1.320 Joule
Tempo max di ricarica <i>Max recharging time</i>	5 sec.
Potenza max assorbita <i>Max power consumption</i>	600 W
Grado di protezione <i>Degree of protection</i>	IP 23
Peso corpo macchina <i>Machine body weight</i>	14,2 Kg

UTILIZZO <i>CAPACITY</i>			
FILETTO <i>THREAD</i>	ALLUMINIO <i>ALUMINIUM</i>	ACCIAIO <i>STEEL</i>	INOX <i>STAINLESS STEEL</i>
M3	●	●	●
M4	●	●	●
M5	●	●	●
M6	●	●	●
M8		●	

DISPONIBILE LA VERSIONE 70 2P CON N. 2 PISTOLE
 70 2P VERSION AVAILABLE WITH TWO GUNS
 VERFÜGBAR VERSION 70 2P MIT 2 SCHWEISSPISTOLEN
 DISPONIBLE LA VERSION 70 2P AVEC 2 PISTOLETS
 DISPONIBLE LA VERSION 70 2P CON 2 PISTOLAS

PESO / DIMENSIONI
WEIGHT / DIMENSION
 21,5 Kg. 30x36x24 cm.

CODICE <i>CODE</i>	Porta perni Chuck Bolzenhalter Mandrin Porta terminal
04PPM3	
04PPM4	
04PPM5	
04PPM6	
04PPM8	



CODICE/CODE

03CD662P

CANOTTO DI APPOGGIO D. 30mm.
SUPPORT TUBE D. 30mm.
STÜTZROHR D. 30mm.
CENTREUR D. 30mm.
ACCESORIO CENTRADOR D. 30mm.



03CANC66

PORTA PERNI PER FASTON
CHUCK FOR FLAT PLUG
BOLZENHALTER FÜR FLACHSTECKER
MANDRIN POUR COSSE
PORTA TERMINAL PARA FASTON



04PF

ANGOLARE
CORNER BRACKET
WINKELTRÄGER
MANDRIN ANGULAIRE
ESCUADRA



04A

SALDATRICI A SCARICA DI CONDENSATORI CAPACITOR DISCHARGE STUD WELDERS SCHWEISSGERÄTE FÜR SPITZENZÜNDUNG SOUDEUSE PAR DÉCHARGE DE CONDENSATEURS SOLDADOR POR DESCARGA

CODICE/CODE

03CDP66M

INVERTER

Display LCD e 32 programmi di saldatura personalizzabili
LCD display and 32 programs of customizable welding



CARATTERISTICHE TECNICHE TECHNICAL FEATURES	
Pezzi saldabili al minuto <i>Weldable pieces per minute</i>	20
Dimensioni corpo macchina <i>Machine body dimensions</i>	44x20x20 cm
Alimentazione <i>Power supply</i>	115/230V - 50/60 Hz - 10 AT
Capacità di carica <i>Charge capacity</i>	66.000 µF
Tensione <i>Voltage</i>	40 - 200V variabile con moderno potenziometro / variable with modern potentiometer
Tempo di saldatura <i>Welding time</i>	0,001 - 0,003 secondi / seconds
Grado di protezione <i>Degree of protection</i>	IP23
Peso corpo macchina <i>Machine body weight</i>	11,5 Kg

UTILIZZO CAPACITY				
FILETTO THREAD	ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL	ALLUMINIO ALUMINIUM	OTTONE BRASS	INOX STAINLESS STEEL
M3	●	●	●	●
M4	●	●	●	●
M5	●	●	●	●
M6	●	●	●	●
M8	●		●	●

PISTOLE / GUNS

KP-8 a contatto cavo 6,5 m standard / *for contact welding 6.5 m cable standard*

HPL-8 a distanza (gap) 3 m specifica per alluminio / *for gap welding 3 m specific for aluminum*

HPL-8M a distanza (gap) 3 m con controllo di processo / *for gap welding 3 m with process control*

CODICE CODE	Porta perni Chuck Bolzenhalter Mandrin Porta terminal	
04PPM3		
04PPM4		
04PPM5		
04PPM6		
04PPM8		

CANOTTO DI APPOGGIO D. 30mm.
SUPPORT TUBE D. 30mm.
STÜTZROHR D. 30mm.
CENTREUR D. 30mm.
ACCESORIO CENTRADOR D. 30mm.



0CANCDP66M

PORTA PERNI PER FASTON
CHUCK FOR FLAT PLUG
BOLZENHALTER FÜR FLACHSTECKER
MANDRIN POUR COSSE
PORTA TERMINAL PARA FASTON



04PF

ANGOLARE
CORNER BRACKET
WINKELTRÄGER
MANDRIN ANGULAIRE
ESCUADRA



04A

SALDATRICI A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE STUD WELDERS
SCHWEISSGERÄTE FÜR SPITZENZÜNDUNG
SOUDEUSE PAR DÉCHARGE DE CONDENSATEURS
SOLDADOR POR DESCARGA

CODICE/CODE

03CD99



CARATTERISTICHE TECNICHE
TECHNICAL FEATURES

Pezzi saldabili al minuto <i>Weldable pieces per minute</i>	11 ÷ 35
Dimensioni corpo macchina <i>Machine body dimensions</i>	16x42x23 cm
Alimentazione <i>Power supply</i>	230V - 50/60 Hz
Capacità <i>Capacity</i>	99.000 µF
Energia <i>Electricity</i>	2.100 Joule
Tempo max di ricarica <i>Max recharging time</i>	5,5 sec.
Potenza max assorbita <i>Max power consumption</i>	900 W
Grado di protezione <i>Degree of protection</i>	IP 23
Peso corpo macchina <i>Machine body weight</i>	17 Kg

UTILIZZO
CAPACITY

FILETTO THREAD	ALLUMINIO ALUMINIUM	ACCIAIO STEEL	INOX STAINLESS STEEL
M3	●	●	●
M4	●	●	●
M5	●	●	●
M6	●	●	●
M8	●	●	●
M10		●	

CODICE/CODE

03CD992P

DISPONIBILE LA VERSIONE 90 2P CON N. 2 PISTOLE
 90 2P VERSION AVAILABLE WITH TWO GUNS
 VERFÜGBAR VERSION 90 2P MIT 2 SCHWEISSPISTOLEN
 DISPONIBLE LA VERSION 90 2P AVEC 2 PISTOLETS
 DISPONIBLE LA VERSION 90 2P CON 2 PISTOLAS

PESO / DIMENSIONI
WEIGHT / DIMENSION
 21,5 Kg. 30x36x24 Cm.

CODICE
CODE

04PPM3

04PPM4

04PPM5

04PPM6

04PPM8

04PPM10

Porta perni
 Chuck
 Bolzenhalter
 Mandrin
 Porta terminal



CANOTTO DI APPOGGIO D. 30mm.
SUPPORT TUBE D. 30mm.
STÜTZROHR D. 30mm.
CENTREUR D. 30mm.
ACCESORIO CENTRADOR D. 30mm.



0CANCD99

PORTA PERNI PER FASTON

CHUCK FOR FLAT PLUG
BOLZENHALTER FÜR FLACHSTECKER
MANDRIN POUR COSSE
PORTA TERMINAL PARA FASTON



04PF

ANGOLARE

CORNER BRACKET
WINKELTRÄGER
MANDRIN ANGULAIRE
ESCUADRA



04A

SALDATRICI A SCARICA DI CONDENSATORI CAPACITOR DISCHARGE STUD WELDERS SCHWEISSGERÄTE FÜR SPITZENZÜNDUNG SOUDEUSE PAR DÉCHARGE DE CONDENSATEURS SOLDADOR POR DESCARGA

CODICE/CODE

03CDP99M

INVERTER

Display LCD e 32 programmi di saldatura personalizzabili
LCD display and 32 programs of customizable welding



CARATTERISTICHE TECNICHE TECHNICAL FEATURES	
Pezzi saldabili al minuto Weldable pieces per minute	20
Dimensioni corpo macchina Machine body dimensions	44x20x20 cm
Alimentazione Power supply	115/230V – 50/60 Hz 10 AT
Capacità di carica Charge capacity	99.000 µF
Tensione Voltage	40 - 200V variabile con moderno potenziometro / variable with modern potentiometer
Tempo di saldatura Welding time	0,001 – 0,003 secondi / seconds
Grado di protezione Degree of protection	IP23
Peso corpo macchina Machine body weight	12 Kg

UTILIZZO CAPACITY				
FILETTO THREAD	ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL	ALLUMINIO ALUMINIUM	OTTONE BRASS	INOX STAINLESS STEEL
M3	•	•	•	•
M4	•	•	•	•
M5	•	•	•	•
M6	•	•	•	•
M8	•	•	•	•
M10	•			•

PISTOLE / GUNS

KP-8 a contatto cavo 6,5 m standard / for contact welding 6.5 m cable standard

HPL-8 a distanza (gap) 3 m specifica per alluminio / for gap welding 3 m specific for aluminum

HPL-8M a distanza (gap) 3 m con controllo processo / for gap welding 3 m with process control

ATP-8 3 m semi automatica / 3 m semi-automatic

CODICE CODE	Porta perni Chuck Bolzenhalter Mandrin Porta terminal	
04PPM3		
04PPM4		
04PPM5		
04PPM6		
04PPM8		
04PPM10		

CANOTTO DI APPOGGIO D. 30mm.
SUPPORT TUBE D. 30mm.
STÜTZROHR D. 30mm.
CENTREUR D. 30mm.
ACCESORIO CENTRADOR D. 30mm.



03CANCDP99M

PORTA PERNI PER FASTON
CHUCK FOR FLAT PLUG
BOLZENHALTER FÜR FLACHSTECKER
MANDRIN POUR COSSE
PORTA TERMINAL PARA FASTON



04PF

ANGOLARE
CORNER BRACKET
WINKELTRÄGER
MANDRIN ANGULAIRE
ESCUADRA



04A

SALDATRICI A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE STUD WELDERS
SCHWEISSGERÄTE FÜR SPITZENZÜNDUNG
SOUDEUSE PAR DÉCHARGE DE CONDENSATEURS
SOLDADOR POR DESCARGA

CODICE/CODE

03CDP133M

INVERTER

Display LCD e 32 programmi di saldatura personalizzabili
 LCD display and 32 programs of customizable welding



CARATTERISTICHE TECNICHE TECHNICAL FEATURES	
Pezzi saldabili al minuto Weldable pieces per minute	20
Dimensioni corpo macchina Machine body dimensions	46x30x26 cm
Alimentazione Power supply	115/230V – 50/60 Hz 16 AT
Capacità di carica Charge capacity	44.000 µF - 88.000 µF – 132.000 88.000 µF modificabili / changeable
Tensione Voltage	50 - 200V variabile con moderno potenziometro / variable with modern potentiometer
Tempo di saldatura Welding time	0,001 – 0,003 secondi / seconds
Grado di protezione Degree of protection	IP23
Peso corpo macchina Machine body weight	16 - 18 Kg

UTILIZZO CAPACITY				
FILETTO THREAD	ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL	ALLUMINIO ALUMINIUM	OTTONE BRASS	INOX STAINLESS STEEL
M3	●	●	●	●
M4	●	●	●	●
M5	●	●	●	●
M6	●	●	●	●
M8	●	●	●	●
M10	●			●

PISTOLE / GUNS

KP-8 a contatto cavo 6,5 m standard / for contact welding 6.5 m cable standard

HPL-8 a distanza (gap) 3 m specifica per alluminio / for gap welding 3 m specific for aluminum

HPL-8M a distanza (gap) 3 m con controllo processo / for gap welding 3 m with process control

ATP-8 3 m semi automatica / 3 m semi-automatic

CODICE CODE	Porta perni Chuck Bolzenhalter Mandrin Porta terminal	
04PPM3		
04PPM4		
04PPM5		
04PPM6		
04PPM8		
04PPM10		

CANOTTO DI APPOGGIO D. 30mm.

SUPPORT TUBE D. 30mm.

STÜTZROHR D. 30mm.

CENTREUR D. 30mm.

ACCESORIO CENTRADOR D. 30mm. 03CANCDP133M



PORTA PERNI PER FASTON

CHUCK FOR FLAT PLUG

BOLZENHALTER FÜR FLACHSTECKER

MANDRIN POUR COSSE

PORTA TERMINAL PARA FASTON



04PF

ANGOLARE

CORNER BRACKET

WINKELTRÄGER

MANDRIN ANGULAIRE

ESCUADRA



04A

SALDATRICI A SCARICA DI CONDENSATORI A BATTERIA
BATTERY CAPACITOR DISCHARGE STUD WELDERS
AKKU SCHWEISSGERÄTE FÜR SPITZENZÜNDUNG
SOUDEUSE SUR BATTERIE PAR DÉCHARGE DE CONDENSATEURS
SOLDADOR A BATERIA POR DESCARGA

CODICE/CODE

03ABSAKKU



CARATTERISTICHE TECNICHE TECHNICAL FEATURES	
Pezzi saldabili al minuto <i>Weldable pieces per minute</i>	circa 200 doppie saldature / approx. 200 dual weldings
Dimensioni corpo macchina <i>Machine body dimensions</i>	380X135X230 mm.
Alimentazione <i>Power supply</i>	115/230V - 50/60 HZ - 10 AT
Capacità di carica <i>Charge capacity</i>	80 Mf
Tensione <i>Voltage</i>	90 V
Tempo massimo di ricarica <i>Maximum recharging time</i>	30 sec.
Tempo ricarica batteria <i>Battery recharging time</i>	9 h
Grado di protezione <i>Degree of protection</i>	IP23
Peso corpo macchina <i>Machine body weight</i>	8 Kg

UTILIZZO CAPACITY				
FILETTO THREAD	ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL	ALLUMINIO ALUMINIUM	OTTONE BRASS	INOX STAINLESS STEEL
M3	●	●	●	●

PISTOLA / GUN
KP-8ABS

POSSIBILITA' DI SALDARE 2 VITI
CONTEMPORANEAMENTE
CON PASSO DA 25 A 63

ABILITY TO WELD 2 SCREWS
AT THE SAME TIME
WITH PITCH FROM 25 TO 63

CODICE CODE	Porta perni Chuck Bolzenhalter Mandrin Porta terminal	
04PPM3		
04PPM4		
04PPM5		
04PPM6		
04PPM8		
04PPM10		

CANOTTO DI APPOGGIO D. 30mm.
SUPPORT TUBE D. 30mm.
STÜTZROHR D. 30mm.
CENTREUR D. 30mm.
ACCESORIO CENTRADOR D. 30mm.



03CANABSAKKU

PORTA PERNI PER FASTON
CHUCK FOR FLAT PLUG
BOLZENHALTER FÜR FLACHSTECKER
MANDRIN POUR COSSE
PORTA TERMINAL PARA FASTON



04PF

ANGOLARE
CORNER BRACKET
WINKELTRÄGER
MANDRIN ANGULAIRE
ESCUADRA

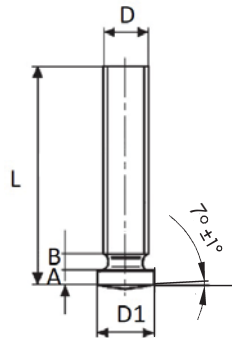


04A

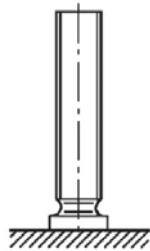
PERNI A SALDARE AD ARCO CORTO
SHORT CYCLE WELDING STUDS
KURZZEIT-HUBZÜNDUNG BOLZEN
GOUJONS À SOUDER EN ARC TEMPS COURT
PERNOS SOLDADURA CON ARCO CORTO

DIN EN ISO 13918

PS



PRIMA DELLA SALDATURA
 BEFORE WELDING
 VOR DEM SCHWEISSEN
 AVANT SOUDAGE
 ANTES DE SOLDAR



DOPO LA SALDATURA
 AFTER WELDING
 NACH DEM SCHWEISSEN
 APRÈS SOUDAGE
 DESPUES DE SOLDAR

D	L	D1 ± 0,2	A	B max
M5	vd. sotto see below	6	0,7 - 1,4	1
M6		7		
M8		9	0,8 - 1,4	1,5
M10		11		2
M12		12,60		

ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRÉ ACERO 4.8 COBREADO			ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRÉ ACERO 4.8 COBREADO			ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50			ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50		
Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code	Filetto Thread Size	Lunghezza Length	Codice Code
M5	8	03ARPR508AC	M8	10	03ARPR810AC	M5	8	03IXPR508AC	M8	10	03IXPR810AC
	10	03ARPR510AC		12	03ARPR812AC		10	03IXPR510AC		12	03IXPR812AC
	12	03ARPR512AC		15	03ARPR815AC		12	03IXPR512AC		15	03IXPR815AC
	15	03ARPR515AC		16	03ARPR816AC		15	03IXPR515AC		16	03IXPR816AC
	16	03ARPR516AC		20	03ARPR820AC		16	03IXPR516AC		20	03IXPR820AC
	20	03ARPR520AC		25	03ARPR825AC		20	03IXPR520AC		25	03IXPR825AC
	25	03ARPR525AC		30	03ARPR830AC		25	03IXPR525AC		30	03IXPR830AC
	30	03ARPR530AC		35	03ARPR835AC		30	03IXPR530AC		35	03IXPR835AC
	35	03ARPR535AC		40	03ARPR840AC		35	03IXPR535AC		40	03IXPR840AC
M6	10	03ARPR610AC	M10	45	03ARPR845AC	M6	10	03IXPR610AC	M10	45	03IXPR845AC
	12	03ARPR612AC		12	03ARPR1012AC		12	03IXPR612AC		12	03IXPR1012AC
	15	03ARPR615AC		15	03ARPR1015AC		15	03IXPR615AC		15	03IXPR1015AC
	16	03ARPR616AC		16	03ARPR1016AC		16	03IXPR616AC		16	03IXPR1016AC
	20	03ARPR620AC		20	03ARPR1020AC		20	03IXPR620AC		20	03IXPR1020AC
	25	03ARPR625AC		25	03ARPR1025AC		25	03IXPR625AC		25	03IXPR1025AC
	30	03ARPR630AC		30	03ARPR1030AC		30	03IXPR630AC		30	03IXPR1030AC
	35	03ARPR635AC		35	03ARPR1035AC		35	03IXPR635AC		35	03IXPR1035AC
	40	03ARPR640AC		40	03ARPR1040AC		40	03IXPR640AC		40	03IXPR1040AC
	45	03ARPR645AC		45	03ARPR1045AC		45	03IXPR645AC		45	03IXPR1045AC
50	03ARPR650AC		M12	50	03ARPR1050AC		50	03IXPR650AC	M12	15	03IXPR1215AC
				15	03ARPR1215AC					16	03IXPR1216AC
				16	03ARPR1216AC					20	03IXPR1220AC
				20	03ARPR1220AC					25	03IXPR1225AC
				25	03ARPR1225AC					30	03IXPR1230AC
				30	03ARPR1230AC					35	03IXPR1235AC
				35	03ARPR1235AC					40	03IXPR1240AC
				40	03ARPR1240AC						

BUSSOLE A SALDARE AD ARCO CORTO

SHORT CYCLE TAPPED STUDS

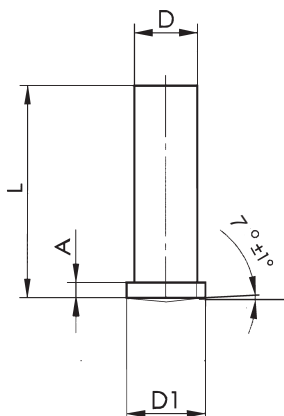
KURZZEIT-HUBZÜNDUNG INNENGEWINDEBUCHSEN

DOUILLES TARAUDÉES À SOUDER EN ARC TEMPS COURT

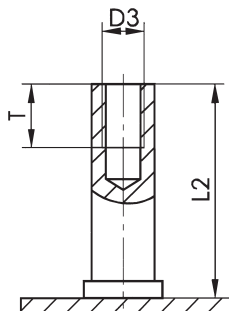
PERNOS CON ROSCA INTERIOR PARA SOLDAR CON ARCO CORTO

DIN EN ISO 13918

IS



PRIMA DELLA SALDATURA
BEFORE WELDING
VOR DEM SCHWEISSEN
AVANT SOUDAGE
ANTES DE SOLDAR



DOPO LA SALDATURA
AFTER WELDING
NACH DEM SCHWEISSEN
APRÈS SOUDAGE
DESPUES DE SOLDAR

D ± 0,1	L	D1 ± 0,2	A	D3	T Min.
5	vd. sotto see below	6	0,7 - 1,4	M3	4
6		7		M4	5
7,1		9	0,8 - 1,4	M5	6
8		9		M6	10

ACCIAIO 4.8 RAMATO

COPPERED PLATED STEEL 4.8

STAHL 4.8 VERKUPFERT

ACIER 4.8 CUIVRÉ

ACERO 4.8 COBREDO

Filetto Thread Size	Lunghezza Length	Codice Code
M3	6	03ARBU3506AC
	8	03ARBU3508AC
	10	03ARBU3510AC
	12	03ARBU3512AC
	15	03ARBU3515AC
	16	03ARBU3516AC
	20	03ARBU3520AC
	25	03ARBU3525AC
	30	03ARBU3530AC
M4	8	03ARBU4608AC
	10	03ARBU4610AC
	12	03ARBU4612AC
	15	03ARBU4615AC
	16	03ARBU4616AC
	20	03ARBU4620AC
	25	03ARBU4625AC
	30	03ARBU4630AC
	35	03ARBU4635AC
	40	03ARBU4640AC

ACCIAIO 4.8 RAMATO

COPPERED PLATED STEEL 4.8

STAHL 4.8 VERKUPFERT

ACIER 4.8 CUIVRÉ

ACERO 4.8 COBREDO

Filetto Thread Size	Lunghezza Length	Codice Code
M5	10	03ARBU5710AC
	12	03ARBU5712AC
	15	03ARBU5715AC
	16	03ARBU5716AC
	20	03ARBU5720AC
	25	03ARBU5725AC
	30	03ARBU5730AC
	35	03ARBU5735AC
	40	03ARBU5740AC
M6	15	03ARBU6815AC
	16	03ARBU6816AC
	20	03ARBU6820AC
	25	03ARBU6825AC
	30	03ARBU6830AC
	35	03ARBU6835AC
	40	03ARBU6840AC

ACCIAIO INOX A2-50

STAINLESS STEEL A2-50

ROSTFREIER STAHL A2-50

INOX A2-50

INOX A2-50

Filetto Thread Size	Lunghezza Length	Codice Code
M3	6	03IXBU3506AC
	8	03IXBU3508AC
	10	03IXBU3510AC
	12	03IXBU3512AC
	15	03IXBU3515AC
	16	03IXBU3516AC
	20	03IXBU3520AC
	25	03IXBU3525AC
	30	03IXBU3530AC
M4	8	03IXBU4608AC
	10	03IXBU4610AC
	12	03IXBU4612AC
	15	03IXBU4615AC
	16	03IXBU4616AC
	20	03IXBU4620AC
	25	03IXBU4625AC
	30	03IXBU4630AC
	35	03IXBU4635AC
	40	03IXBU4640AC

ACCIAIO INOX A2-50

STAINLESS STEEL A2-50

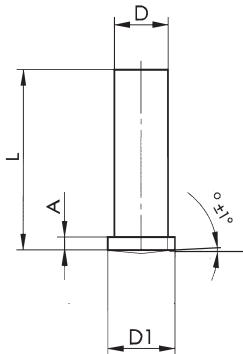
ROSTFREIER STAHL A2-50

INOX A2-50

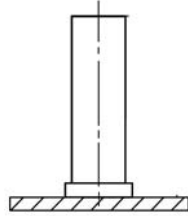
INOX A2-50

Filetto Thread Size	Lunghezza Length	Codice Code
M5	10	03IXBU5710AC
	12	03IXBU5712AC
	15	03IXBU5715AC
	16	03IXBU5716AC
	20	03IXBU5720AC
	25	03IXBU5725AC
	30	03IXBU5730AC
	35	03IXBU5735AC
	40	03IXBU5740AC
M6	15	03IXBU6815AC
	16	03IXBU6816AC
	20	03IXBU6820AC
	25	03IXBU6825AC
	30	03IXBU6830AC
	35	03IXBU6835AC
	40	03IXBU6840AC

PERNI LISCI A SALDARE AD ARCO CORTO
UNTHREADED SHORT CYCLE WELDING STUDS
KURZZEIT-HUBZÜNDUNG SCHWEISSSTIFTE
GOUJONS LISSES À SOUDER EN ARC TEMPS COURT
PERNOS SIN ROSCA PARA SOLDAR CON ARCO CORTO



PRIMA DELLA SALDATURA
 BEFORE WELDING
 VOR DEM SCHWEISSEN
 AVANT SOUDAGE
 ANTES DE SOLDAR



DOPO LA SALDATURA
 AFTER WELDING
 NACH DEM SCHWEISSEN
 APRÈS SOUDAGE
 DESPUES DE SOLDAR

DIN EN ISO 13918
US

D ± 0,1	L	D1 ± 0,2	A
3	vd. sotto see below	4	0,7-1,4
4		5	
5		6	
6		7	
7,1		9	0,8-1,4
8			

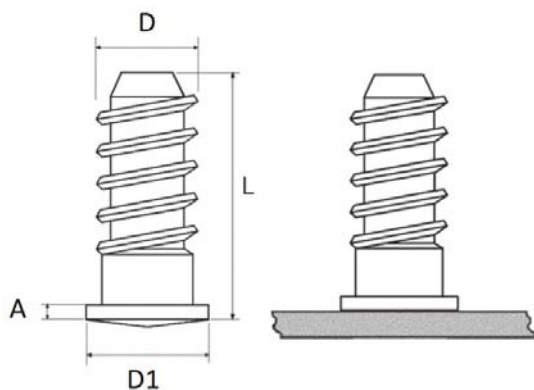
ACCIAIO 4.8 RAMATO COPPER PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREADO		
Diametro Diameter	Lunghezza Length	Codice Code
Ø 3	6	03ARPL306AC
	8	03ARPL308AC
	10	03ARPL310AC
	12	03ARPL312AC
	15	03ARPL315AC
	16	03ARPL316AC
	20	03ARPL320AC
	25	03ARPL325AC
Ø 4	30	03ARPL330AC
	6	03ARPL406AC
	8	03ARPL408AC
	10	03ARPL410AC
	12	03ARPL412AC
	15	03ARPL415AC
	16	03ARPL416AC
	20	03ARPL420AC
Ø 5	25	03ARPL425AC
	30	03ARPL430AC
	35	03ARPL435AC
	40	03ARPL440AC
	6	03ARPL506AC
	8	03ARPL508AC
	10	03ARPL510AC
	12	03ARPL512AC
	15	03ARPL515AC
	16	03ARPL516AC
	20	03ARPL520AC
	25	03ARPL525AC
Ø 6	30	03ARPL530AC
	35	03ARPL535AC
	40	03ARPL540AC
	45	03ARPL545AC

ACCIAIO 4.8 RAMATO COPPER PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREADO		
Diametro Diameter	Lunghezza Length	Codice Code
Ø 6	8	03ARPL608AC
	10	03ARPL610AC
	12	03ARPL612AC
	15	03ARPL615AC
	16	03ARPL616AC
	20	03ARPL620AC
	25	03ARPL625AC
	30	03ARPL630AC
	35	03ARPL635AC
	40	03ARPL640AC
	45	03ARPL645AC
	50	03ARPL650AC
Ø 7,1	55	03ARPL655AC
	60	03ARPL660AC
	10	03ARPL710AC
	12	03ARPL712AC
	15	03ARPL715AC
	16	03ARPL716AC
	20	03ARPL720AC
	25	03ARPL725AC
	30	03ARPL730AC
	35	03ARPL735AC
	40	03ARPL740AC
	45	03ARPL745AC
Ø 8	50	03ARPL750AC
	55	03ARPL755AC
	60	03ARPL760AC
	15	03ARPL815AC
	16	03ARPL816AC
	20	03ARPL820AC
	25	03ARPL825AC
	30	03ARPL830AC
	35	03ARPL835AC
	40	03ARPL840AC
	45	03ARPL845AC
	50	03ARPL850AC
Ø 8	55	03ARPL855AC
	60	03ARPL860AC

ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50		
Diametro Diameter	Lunghezza Length	Codice Code
Ø 3	6	03IXPL306AC
	8	03IXPL308AC
	10	03IXPL310AC
	12	03IXPL312AC
	15	03IXPL315AC
	16	03IXPL316AC
	20	03IXPL320AC
	25	03IXPL325AC
Ø 4	30	03IXPL330AC
	6	03IXPL406AC
	8	03IXPL408AC
	10	03IXPL410AC
	12	03IXPL412AC
	15	03IXPL415AC
	16	03IXPL416AC
	20	03IXPL420AC
Ø 5	25	03IXPL425AC
	30	03IXPL430AC
	35	03IXPL435AC
	40	03IXPL440AC
	6	03IXPL506AC
	8	03IXPL508AC
	10	03IXPL510AC
	12	03IXPL512AC
	15	03IXPL515AC
	16	03IXPL516AC
	20	03IXPL520AC
	25	03IXPL525AC
Ø 6	30	03IXPL530AC
	35	03IXPL535AC
	40	03IXPL540AC
	45	03IXPL545AC

ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50		
Diametro Diameter	Lunghezza Length	Codice Code
Ø 6	8	03IXPL608AC
	10	03IXPL610AC
	12	03IXPL612AC
	15	03IXPL615AC
	16	03IXPL616AC
	20	03IXPL620AC
	25	03IXPL625AC
	30	03IXPL630AC
	35	03IXPL635AC
	40	03IXPL640AC
	45	03IXPL645AC
	50	03IXPL650AC
Ø 7,1	55	03IXPL655AC
	60	03IXPL660AC
	10	03IXPL710AC
	12	03IXPL712AC
	15	03IXPL715AC
	16	03IXPL716AC
	20	03IXPL720AC
	25	03IXPL725AC
	30	03IXPL730AC
	35	03IXPL735AC
	40	03IXPL740AC
	45	03IXPL745AC
Ø 8	50	03IXPL750AC
	55	03IXPL755AC
	60	03IXPL760AC
	15	03IXPL815AC
	16	03IXPL816AC
	20	03IXPL820AC
	25	03IXPL825AC
	30	03IXPL830AC
	35	03IXPL835AC
	40	03IXPL840AC
	45	03IXPL845AC
	50	03IXPL850AC
Ø 8	55	03IXPL855AC
	60	03IXPL860AC

PERNI CON FILETTO A DENTE DI SEGA AD ARCO CORTO
SHORT-CYCLE WELDING STUDS WITH COARSE
KURZZEIT-HUBZÜNDUNG GROBGEWINDEBOLZEN
GOIJONS SAPIN À SOUDER EN ARC TEMPS COURT
PERNOS ESPECIALES PARA SOLDAR CON ARCO CORTO

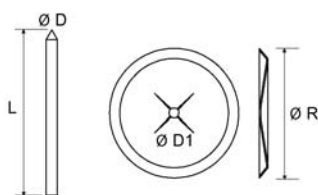


PRIMA DELLA SALDATURA
BEFORE WELDING
VOR DEM SCHWEISSEN
AVANT SOUDAGE
ANTES DE SOLDAR

DOPO LA SALDATURA
AFTER WELDING
NACH DEM SCHWEISSEN
APRÈS SOUDAGE
DESPUES DE SOLDAR

ACCIAIO 4.8 RAMATO COPPERED PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRÉ ACERO 4.8 COBREDO				
D	L +0,6	D1 ± 0,2	A	Codice Code
5	9	6	0,6 - 1,4	03ARAN509AC
	12			03ARAN512AC
	14,2			03ARAN514AC
	16,5			03ARAN516AC
	18			03ARAN518AC
	25			03ARAN525AC

CHIODI PER ISOLAMENTO AD ARCO CORTO
SHORT-CYCLE STUDS INSULATION PINS
KURZZEIT-HUBZÜNDUNG TELLERSTIFTE MIT ISOLIERUNG
CLOU D'ISOLATION EN ARC TEMPS COURT
PINS DE AISLAMIENTO CON ARCO CORTO



ACCIAIO 4.8 RAMATO COPPER PLATED STEEL 4.8 STAHL 4.8 VERKUPFERT ACIER 4.8 CUIVRÉ ACERO 4.8 COBREDO				ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50			
L	Ø D1	Ø D	R	L	Ø D1	Ø D	R
10 - 200	1,8	2	38	10 - 200	1,8	2	38
10 - 200	2,4	2,6	38	10 - 200	2,4	2,6	38
10 - 1000	2,8	3	38	10 - 1000	2,8	3	38
10 - 1000	3,8	4	38 - 60	10 - 1000	3,8	4	38 - 60

PERNI A SALDARE AD ARCO SOLLEVATO CON FERULA CERAMICA

DRAWN-ARC STUDS WITH CERAMIC FERRULES

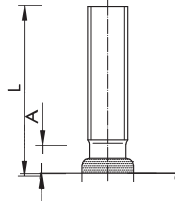
HUBZÜNDUNG BOLZEN MIT KERAMIK RINGE

GOUJONS À SOUDER AVEC BAGUES REFRACTAIRES

PERNOS SOLDADURA ARCO CON FERULA CERAMICA

DIN EN ISO 13918

PD - MPF



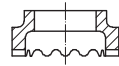
PRIMA DELLA SALDATURA
BEFORE WELDING
VOR DEM SCHWEISSEN
AVANT SOUDAGE
ANTES DE SOLDAR

DOPO LA SALDATURA
AFTER WELDING
NACH DEM SCHWEISSEN
APRÈS SOUDAGE
DESPUES DE SOLDAR

D	L	D1 ± 0,2	A
M6	vd. sotto see below	5,3	4,5
M8		7,1	5,0
M10		8,95	5,5
M12		10,5	6,5

DIN EN ISO 13918

PF - KSP



Diametro Diameter	Codice Code
M6	03KSP-F06
M8	03KSP-F08
M10	03KSP-F10
M12	03KSP-F12

NON VENDIBILI SEPARATAMENTE DAI PERNI
NOT TO BE SOLD SEPARATELY FROM THE STUDS

ACCIAIO 4.8 STEEL 4.8 STAHL 4.8 ACIER 4.8 ACERO 4.8			ACCIAIO 4.8 STEEL 4.8 STAHL 4.8 ACIER 4.8 ACERO 4.8			ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50			ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50		
Diametro Diameter	Lunghezza Length	Codice Code	Diametro Diameter	Lunghezza Length	Codice Code	Diametro Diameter	Lunghezza Length	Codice Code	Diametro Diameter	Lunghezza Length	Codice Code
M6	15	03AGPR615MPF	M10	15	03AGPR1015MPF	M6	15	03IXPR615MPF	M10	15	03IXPR1015MPF
	20	03AGPR620MPF		20	03AGPR1020MPF		20	03IXPR620MPF		20	03IXPR1020MPF
	25	03AGPR625MPF		25	03AGPR1025MPF		25	03IXPR625MPF		25	03IXPR1025MPF
	30	03AGPR630MPF		30	03AGPR1030MPF		30	03IXPR630MPF		30	03IXPR1030MPF
	35	03AGPR635MPF		35	03AGPR1035MPF		35	03IXPR635MPF		35	03IXPR1035MPF
	40	03AGPR640MPF		40	03AGPR1040MPF		40	03IXPR640MPF		40	03IXPR1040MPF
	45	03AGPR645MPF		45	03AGPR1045MPF		45	03IXPR645MPF		45	03IXPR1045MPF
	50	03AGPR650MPF		50	03AGPR1050MPF		50	03IXPR650MPF		50	03IXPR1050MPF
	55	03AGPR655MPF		55	03AGPR1055MPF		55	03IXPR655MPF		55	03IXPR1055MPF
	60	03AGPR660MPF		60	03AGPR1060MPF		60	03IXPR660MPF		60	03IXPR1060MPF
	70	03AGPR670MPF		70	03AGPR1070MPF		70	03IXPR670MPF		70	03IXPR1070MPF
	80	03AGPR680MPF		80	03AGPR1080MPF		80	03IXPR680MPF		80	03IXPR1080MPF
M8	90	03AGPR690MPF		90	03AGPR1090MPF		90	03IXPR690MPF		90	03IXPR1090MPF
	100	03AGPR6100MPF		100	03AGPR10100MPF		100	03IXPR6100MPF		100	03IXPR10100MPF
	15	03AGPR815MPF	M12	20	03AGPR1220MPF	M8	15	03IXPR815MPF	M12	20	03IXPR1220MPF
	20	03AGPR820MPF		25	03AGPR1225MPF		20	03IXPR820MPF		25	03IXPR1225MPF
	25	03AGPR825MPF		30	03AGPR1230MPF		25	03IXPR825MPF		30	03IXPR1230MPF
	30	03AGPR830MPF		35	03AGPR1235MPF		30	03IXPR830MPF		35	03IXPR1235MPF
	35	03AGPR835MPF		40	03AGPR1240MPF		35	03IXPR835MPF		40	03IXPR1240MPF
	40	03AGPR840MPF		45	03AGPR1245MPF		40	03IXPR840MPF		45	03IXPR1245MPF
	45	03AGPR845MPF		50	03AGPR1250MPF		45	03IXPR845MPF		50	03IXPR1250MPF
	50	03AGPR850MPF		55	03AGPR1255MPF		50	03IXPR850MPF		55	03IXPR1255MPF
	55	03AGPR855MPF		60	03AGPR1260MPF		55	03IXPR855MPF		60	03IXPR1260MPF
	60	03AGPR860MPF		70	03AGPR1270MPF		60	03IXPR860MPF		70	03IXPR1270MPF
	70	03AGPR870MPF		80	03AGPR1280MPF		70	03IXPR870MPF		80	03IXPR1280MPF
	80	03AGPR880MPF		90	03AGPR1290MPF		80	03IXPR880MPF		90	03IXPR1290MPF
	90	03AGPR890MPF		100	03AGPR12100MPF		90	03IXPR890MPF		100	03IXPR12100MPF
	100	03AGPR815MPF					100	03IXPR8100MPF			

PERNI A SALDARE AD ARCO SOLLEVATO CON FERULA CERAMICA

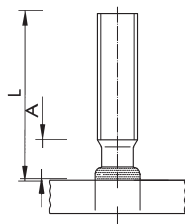
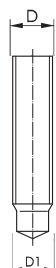
DRAWN-ARC STUDS WITH CERAMIC FERRULES

HUBZÜNDUNG BOLZEN MIT KERAMIK RINGE

GOUJONS À SOUDER AVEC BAGUES REFRACTAIRES

PERNOS SOLDADURA ARCO CON FERULA CERAMICA

DIN EN ISO 13918

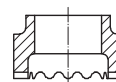
RD - MR

PRIMA DELLA SALDATURA
BEFORE WELDING
VOR DEM SCHWEISSEN
AVANT SOUDAGE
ANTES DE SOLDAR

DOPO LA SALDATURA
AFTER WELDING
NACH DEM SCHWEISSEN
APRÈS SOUDAGE
DESPUES DE SOLDAR

D	L	D1 ± 0,2	A
M6	vd. sotto see below	4,7	4,5
M8		6,2	4,5
M10		7,9	5,0
M12		9,5	6,5

DIN EN ISO 13918

RF - KSR

Diametro Diameter	Codice Code
M6	03KSR-F06
M8	03KSR-F08
M10	03KSR-F10
M12	03KSR-F12

NON VENDIBILI SEPARATAMENTE DAI PERNI
NOT TO BE SOLD SEPARATELY FROM THE STUDS

ACCIAIO 4.8 STEEL 4.8 STAHL 4.8 VERKÜPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREDO		
Diametro Diameter	Lunghezza Length	Codice Code
M6	15	03AGPR615MR
	20	03AGPR620MR
	25	03AGPR625MR
	30	03AGPR630MR
	35	03AGPR635MR
	40	03AGPR640MR
	45	03AGPR645MR
	50	03AGPR650MR
	55	03AGPR655MR
	60	03AGPR660MR
	70	03AGPR670MR
M8	80	03AGPR680MR
	90	03AGPR690MR
	100	03AGPR6100MR
	15	03AGPR815MR
	20	03AGPR820MR
	25	03AGPR825MR
	30	03AGPR830MR
	35	03AGPR835MR
	40	03AGPR840MR
	45	03AGPR845MR
	50	03AGPR850MR
	55	03AGPR855MR
	60	03AGPR860MR
	70	03AGPR870MR
	80	03AGPR880MR
	90	03AGPR890MR
	100	03AGPR8100MR

ACCIAIO 4.8 STEEL 4.8 STAHL 4.8 VERKÜPFERT ACIER 4.8 CUIVRE ACERO 4.8 COBREDO		
Diametro Diameter	Lunghezza Length	Codice Code
M10	20	03AGPR1020MR
	25	03AGPR1025MR
	30	03AGPR1030MR
	35	03AGPR1035MR
	40	03AGPR1040MR
	45	03AGPR1045MR
	50	03AGPR1050MR
	55	03AGPR1055MR
	60	03AGPR1060MR
	70	03AGPR1070MR
	80	03AGPR1080MR
M12	90	03AGPR1090MR
	100	03AGPR10100MR
	20	03AGPR1220MR
	25	03AGPR1225MR
	30	03AGPR1230MR
	35	03AGPR1235MR
	40	03AGPR1240MR
	45	03AGPR1245MR
	50	03AGPR1250MR
	55	03AGPR1255MR
	60	03AGPR1260MR
	70	03AGPR1270MR
	80	03AGPR1280MR
	90	03AGPR1290MR
	100	03AGPR12100MR

ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50		
Diametro Diameter	Lunghezza Length	Codice Code
M6	15	03IXPR615MR
	20	03IXPR615MR
	25	03IXPR615MR
	30	03IXPR615MR
	35	03IXPR615MR
	40	03IXPR615MR
	45	03IXPR615MR
	50	03IXPR615MR
	55	03IXPR615MR
	60	03IXPR615MR
	70	03IXPR615MR
M8	80	03IXPR615MR
	90	03IXPR615MR
	100	03IXPR615MR
	15	03IXPR815MR
	20	03IXPR820MR
	25	03IXPR825MR
	30	03IXPR830MR
	35	03IXPR835MR
	40	03IXPR840MR
	45	03IXPR845MR
	50	03IXPR850MR
	55	03IXPR855MR
	60	03IXPR860MR
	70	03IXPR870MR
	80	03IXPR880MR
	90	03IXPR890MR
	100	03IXPR8100MR

ACCIAIO INOX A2-50 STAINLESS STEEL A2-50 ROSTFREIER STAHL A2-50 INOX A2-50 INOX A2-50		
Diametro Diameter	Lunghezza Length	Codice Code
M10	20	03IXPR1020MR
	25	03IXPR1025MR
	30	03IXPR1030MR
	35	03IXPR1035MR
	40	03IXPR1040MR
	45	03IXPR1045MR
	50	03IXPR1050MR
	55	03IXPR1055MR
	60	03IXPR1060MR
	70	03IXPR1070MR
	80	03IXPR1080MR
M12	90	03IXPR1090MR
	100	03IXPR10100MR
	20	03IXPR1220MR
	25	03IXPR1225MR
	30	03IXPR1230MR
	35	03IXPR1235MR
	40	03IXPR1240MR
	45	03IXPR1245MR
	50	03IXPR1250MR
	55	03IXPR1255MR
	60	03IXPR1260MR
	70	03IXPR1270MR
	80	03IXPR1280MR
	90	03IXPR1290MR
	100	03IXPR12100MR

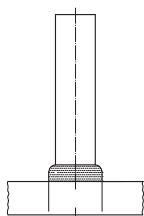
A RICHIESTA
ON DEMAND
AUF ANFRAGE
SUR DEMANDE
BAJO SOLICITUD

4

29.40

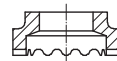
DIN EN ISO 13918

UD - S



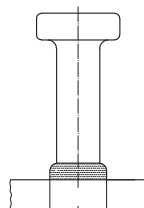
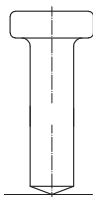
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UF - KSN



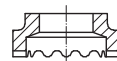
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SD - KD



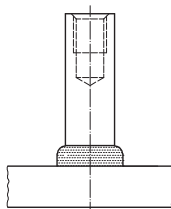
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UF - KSN



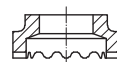
DIN EN ISO 13918

ID - MI



DIN EN ISO 13918

UF - KSN



SALDATRICE AD ARCO CORTO / ARCO SOLLEVATO
SHORT CYCLE / DRAWN ARC STUD WELDER
SCHWEISSGERÄT FÜR HUBZÜNDUNG
SOUDEUSE EN ARC
SOLDADOR DE ARCO



CODICE/CODE

03550

CARATTERISTICHE TECNICHE
TECHNICAL FEATURES

Pezzi saldabili al minuto <i>Weldable pieces per minute</i>	8 ÷ 25
Dimensioni corpo macchina <i>Machine body dimensions</i>	28x52x29 cm
Alimentazione <i>Power supply</i>	400V - 3 Ph - 50/60Hz
Potenza max assorbita <i>Max power consumption</i>	kW 17,0
Grado di protezione <i>Degree of protection</i>	IP 23
Peso corpo macchina <i>Machine body weight</i>	41 Kg

UTILIZZO
CAPACITY

FILETTO THREAD	ACCIAIO STEEL	INOX STAINLESS STEEL
M4	●	●
M5	●	●
M6	●	●
M8	●	●
M10	●	●

SALDATRICE AD ARCO CORTO / ARCO SOLLEVATO
SHORT CYCLE / DRAWN ARC STUD WELDER
SCHWEISSGERÄT FÜR HUBZÜNDUNG
SOUDEUSE EN ARC
SOLDADOR DE ARCO



CODICE/CODE

03DA800M

ISO 4063
 Display LCD
 LCD display

CARATTERISTICHE TECNICHE <i>TECHNICAL FEATURES</i>	
Pezzi saldabili al minuto <i>Weldable pieces per minute</i>	10
Dimensioni corpo macchina <i>Machine body dimensions</i>	460 x 300 x 260 mm
Alimentazione <i>Power supply</i>	3x400V – 50/60 Hz – 32 A
Corrente di saldatura <i>Mains supply</i>	800 A con moderno potenziometro / <i>Modern potentiometer</i>
Tempo di saldatura <i>Welding time</i>	0,001 – 1 sec.
Grado di protezione <i>Degree of protection</i>	IP 23
Peso corpo macchina <i>Machine body weight</i>	40 Kg

UTILIZZO <i>CAPACITY</i>		
FILETTO <i>THREAD</i>	ACCIAIO 4.8 <i>STEEL</i>	INOX <i>STAINLESS STEEL</i>
M3	●	●
M4	●	●
M5	●	●
M6	●	●
M8	●	●
M10	●	●
M12	●	●

ALLUMINIO IN CASI PARTICOLARI
 ALUMINIUM ONLY IN PARTICULAR SITUATIONS

PISTOLE / GUNS

KHPL-12 cavo 5 m kit gas / 5 m cable kit gas

KHPL-12 cavo 5 m kit ferule ceramiche / 5 m cable kit ceramic ferrules

SALDATRICE AD ARCO CORTO / ARCO SOLLEVATO
SHORT CYCLE / DRAWN ARC STUD WELDER
SCHWEISSGERÄT FÜR HUBZÜNDUNG
SOUDEUSE EN ARC
SOLDADOR DE ARCO



CODICE/CODE
03DAI1300

ISO 4063

INVERTER

CARATTERISTICHE TECNICHE TECHNICAL FEATURES	
Pezzi saldabili al minuto Weldable pieces per minute	10
Dimensioni corpo macchina Machine body dimensions	290x 330 x 650 mm
Alimentazione Power supply	3x400V – 50/60 Hz – 32 A
Corrente di saldatura Mains supply	100A - 1000 A infinitamente variabili
Tempo di saldatura Welding time	5 – 1000 ms infinitamente variabili
Grado di protezione Degree of protection	IP 23
Peso corpo macchina Machine body weight	20 Kg

UTILIZZO CAPACITY			
FILETTO THREAD	ACCIAIO STEEL	INOX STAINLESS STEEL	ALLUMINIO ALUMINIUM
M3	●	●	●
M4	●	●	●
M5	●	●	●
M6	●	●	●
M8	●	●	●
M10	●	●	●
M12	●	●	●
M16	●	●	

PISTOLE / GUNS

KHPL-10 cavo 5 m kit gas / 5 m cable kit gas

KHPL-12 cavo 5 m kit gas / 5 m cable kit gas

KHPL-12 cavo 5 m kit ferule ceramiche / 5 m cable kit ceramic ferrules

KHPL-19 cavo 5 m kit ferule ceramiche / 5 m cable kit ceramic ferrules

SALDATRICE AD ARCO CORTO / ARCO SOLLEVATO
SHORT CYCLE / DRAWN ARC STUD WELDER
SCHWEISSGERÄT FÜR HUBZÜNDUNG
SOUDEUSE EN ARC
SOLDADOR DE ARCO



CODICE/CODE
03DAI2300

ISO 4063

INVERTER

CARATTERISTICHE TECNICHE TECHNICAL FEATURES	
Pezzi saldabili al minuto Weldable pieces per minute	10
Dimensioni corpo macchina Machine body dimensions	1007x 477,5 x 1249 mm
Alimentazione Power supply	320x495V – 50/60 Hz – 63 A
Corrente di saldatura Mains supply	100A - 2000 A infinitamente variabili / infinitely variable
Tempo di saldatura Welding time	5 – 1000 ms (1500 ms) infinitamente variabili infinitely variable
Grado di protezione Degree of protection	IP 23
Peso corpo macchina Machine body weight	110 Kg

ALLUMINIO IN CASI PARTICOLARI
ALUMINIUM ONLY IN PARTICULAR SITUATIONS

PISTOLE / GUNS

KHPL-12 cavo 5 m kit ferule ceramiche /
 5 m cable kit ceramic ferrules

KHPL-19 cavo 5 m kit ferule ceramiche /
 5 m cable kit ceramic ferrules

KHPL-22 cavo 5 m kit ferule ceramiche /
 5 m cable kit ceramic ferrules

UTILIZZO CAPACITY		
FILETTO THREAD	ACCIAIO STEEL	INOX STAINLESS STEEL
M3	●	●
M4	●	●
M5	●	●
M6	●	●
M8	●	●
M10	●	●
M12	●	●
M14	●	●
M16	●	●
M18	●	●
M20	●	●
M22	●	●
M24	●	●

CNC SALDATRICE AUTOMATICA
CNC AUTOMATIC WELDING MACHINE
CNC AUTOMATISCHES SCHWEISSGERÄT
CNC SOUDEUSE AUTOMATIQUE
CNC UNIDAD DE SOLDADURA AUTOMÁTICA

CODICE/CODE

03CNC2X1



2.000 x 1.000

Caratteristiche tecniche - Technical features	
Dimensioni area di lavoro <i>Work range</i>	fino a 2.000 x 1.000 mm. <i>up to 2.000 x 1.000 mm.</i>
Numero di saldatrici <i>Number of machines</i>	1 saldatrice <i>1 welding machine</i>
Numero di teste <i>Number of heads</i>	fino a 2 <i>up to 2</i>
Numero di alimentatori automatici <i>Number of automatic feeders</i>	fino a 2 <i>up to 2</i>
Range di saldatura <i>Welding range</i>	da M3 x 8 mm. a M10 x 40 mm. <i>from M3 x 8 mm. to M10 x 40 mm.</i>
Velocità <i>Speed</i>	280 mm./sec. (18 m./min.)
Precisione <i>Precision</i>	+/- 0.2 mm.
Ripetibilità per foglio di lamiera <i>Repeatability on sheet metal</i>	+/- 0.05 mm.
N. di pezzi saldati al minuto <i>No. of pieces welded per minute</i>	fino a 40 perni <i>up to 40 studs</i>

- ASSI X-Y SERVO-ASSISTITI E PROGRAMMABILI (ASSE Z SU RICHIESTA)
- CONTROLLO E PROGRAMMAZIONE TRAMITE PC
- TOUCH-SCREEN DA 24"
- CONNESSIONE REMOTA TRAMITE WI-FI
- CARICAMENTO DEI PROGRAMMI TRAMITE USB O RETE WI-FI O ETHERNET
- NUMERO ILLIMITATO DI PROGRAMMI
- VARIABILI PER LA PROGRAMMAZIONE (COORDINATE, TESTE, POTENZA DI SALDATURA,) TRAMITE TOUCH-SCREEN O FILE EXCEL O CCV
- BARRIERE FOTOELETTRICHE DI SICUREZZA
- STAFFE PNEUMATICHE
- ADATTABILITA' DI UTENSILI UNIVERSALI: TORNITURA, APPLICAZIONI ADESIVE, ECC)
- COMPONENTI ELETTRICI E DI CONTROLLO DI ALTA QUALITA'
- CERTIFICATO CEE
- IN GRADO DI SALDARE TUTTI GLI ARTICOLI DELLA DIN 13918

- X-Y AXIS SERVO-CONTROLLED AND PROGRAMMABLE (Z AXIS ON DEMAND)
- PC-INDUSTRIAL, CONTROL AND PROGRAMMING
- 24" TOUCH SCREEN
- REMOTE CONNECTION VIA WIFI
- LOADS PROGRAMS WITH USB, OR THROUGH WIFI NETWORK (WIFI, ETHERNET)
- UNLIMITED NUMBER OF PROGRAMS
- PROGRAMMING VARIABLES (COORDINATES, HEADS, WELDING POWER) VIA TOUCH PANEL, EXCEL TEMPLATE OR CCV FILES
- PHOTOELECTRIC SECURITY BARRIERS
- PNEUMATIC FLANGES
- POSSIBILITY OF ADAPTING UNIVERSAL TOOLS: MILLING MACHINES, ADHESIVE IMPLEMENTATIONS, ETC.
- UNIVERSAL HIGH-QUALITY ELECTRICAL COMPONENTS AND CONTROLS
- CEE CERTIFICATE
- ABLE TO WELD ALL ITEMS ACCORDING TO DIN 13918

CNC SALDATRICE AUTOMATICA
CNC AUTOMATIC WELDING MACHINE
CNC AUTOMATISCHES SCHWEISSGERÄT
CNC SOUDEUSE AUTOMATIQUE
CNC UNIDAD DE SOLDADURA AUTOMÁTICA

CODICE/CODE

03CNC3X15



3.000 x 1.500

Caratteristiche tecniche - Technical features	
Dimensioni area di lavoro <i>Work range</i>	fino a 3.000 x 1.500 mm. <i>up to 3.000 x 1.500 mm.</i>
Numero di saldatrici <i>Number of machines</i>	fino a 4 saldatrici <i>up to 4 welding machines</i>
Numero di teste <i>Number of heads</i>	fino a 4 <i>up to 4</i>
Numero di alimentatori automatici <i>Number of automatic feeders</i>	fino a 4 <i>up to 4</i>
Range di saldatura <i>Welding range</i>	da M3 x 8 mm. a M10 x 40 mm. <i>from M3 x 8 mm. to M10 x 40 mm.</i>
Velocità <i>Speed</i>	1.200 mm./sec. (72 m./min.)
Precisione <i>Precision</i>	+/- 0.2 mm.
Ripetibilità per foglio di lamiera <i>Repeatability on sheet metal</i>	+/- 0.05 mm.
N. di pezzi saldati al minuto <i>No. of pieces welded per minute</i>	fino a 40 perni <i>up to 40 studs</i>

- ASSI X-Y SERVO-ASSISTITI E PROGRAMMABILI (ASSE Z SU RICHIESTA)
- CONTROLLO E PROGRAMMAZIONE TRAMITE PC
- TOUCH-SCREEN DA 24"
- CONNESSIONE REMOTA TRAMITE WI-FI
- CARICAMENTO DEI PROGRAMMI TRAMITE USB O RETE WI-FI O ETHERNET
- NUMERO ILLIMITATO DI PROGRAMMI
- VARIABILI PER LA PROGRAMMAZIONE (COORDINATE, TESTE, POTENZA DI SALDATURA,) TRAMITE TOUCH-SCREEN O FILE EXCEL O CCV
- BARRIERE FOTOELETTRICHE DI SICUREZZA
- STAFFE PNEUMATICHE
- ADATTABILITA' DI UTENSILI UNIVERSALI: TORNITURA, APPLICAZIONI ADESIVE, ECC)
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- CEE CERTIFICATE
- ABLE TO WELD ALL ITEMS ACCORDING TO DIN 13918

NOTE
REMARKS
BEMERKUNGEN
REMARQUES
OBSERVACIONES

Fissaggi per lamiera - Fasteners for sheet metal -

RIVETTI A STRAPPO - BLIND RIVETS



THREADED INSERTS - INSERTI FILETTATI

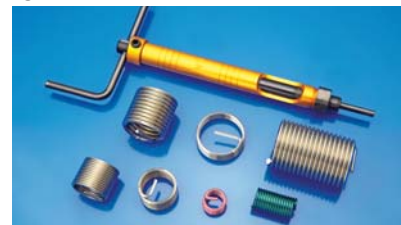
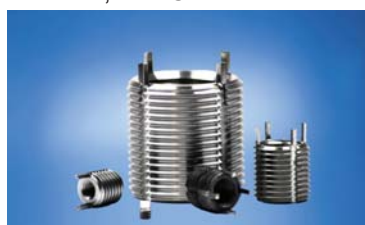


SELF CLINCHING FASTENERS - AUTOFISSANTI



Fasteners for solid parts - Fissaggi per corpi pieni

SELF-TAPPING, SPECIAL AND WIRE INSERTS BUSSOLE AUTOFILETTANTI, SPECIALI E FILETTI RIPORTATI



Fissaggi per la plastica Fasteners for plastics

BRASS INSERTS - INSERTI IN OTTONE



INSERTI PER PIETRA E SUPERFICI SOLIDE - INSERTS FOR STONES AND SOLID SURFACES



Fasteners for tubes - Fissaggi per tubi

INSERTS FOR TUBES - INSERTI PER TUBI





RIVETTI A STRAPPO
BLIND RIVETS



INSERTI FILETTATI
THREADED INSERTS



AUTOFISSANTI
SELF-CLINCHING
FASTENERS



**FISSAGGI PER MATERIE
PLASTICHE**
FASTENERS FOR PLASTICS



FILETTI RIPORTATI
WIRE INSERTS



INSERTI PER TUBI
INSERTS FOR TUBES



**BUSSOLE AUTOFILETTANTI
E SPECIALI**
SELF-TAPPING AND SPECIAL
THREADED INSERTS

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