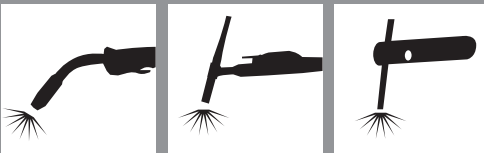


EN IT FR ES DE RU PT
 NL EL RO SV CS HR-SR
 PL FI DA NO SL SK HU
 LT ET LV BG TR AR

(EN) INSTRUCTION MANUAL
 (IT) MANUALE D'ISTRUZIONE
 (FR) MANUEL D'INSTRUCTIONS
 (ES) MANUAL DE INSTRUCCIONES
 (DE) BEDIENUNGSANLEITUNG
 (RU) РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ
 (PT) MANUAL DE INSTRUÇÕES
 (NL) INSTRUCTIEHANDLEIDING
 (EL) ΕΓΧΕΙΡΙΔΙΟ ΧΡΗΣΗΣ
 (RO) MANUAL DE INSTRUCȚIUNI
 (SV) BRUKSANVISNING
 (CS) NÁVOD K POUŽITÍ
 (HR-SR) PRIRUČNIK ZA UPOTREBU
 (PL) INSTRUKCJA OBSŁUGI
 (FI) OHJEKIRJA
 (DA) INSTRUKTIONSMANUAL
 (NO) BRUKERVEILEDNING
 (SL) PRIROČNIK Z NAVODILI ZA UPORABO
 (SK) NÁVOD NA POUŽITIE
 (HU) HASZNÁLATI UTASÍTÁS
 (LT) INSTRUKCIJŲ KNYGELĖ
 (ET) KASUTUSJUHEND
 (LV) ROKASGRĀMATA
 (BG) РЪКОВОДСТВО С ИНСТРУКЦИИ
 (TR) KULLANIM KILAVUZU
 (AR) دليل التشغيل



MIG-MAG • TIG (DC) • MMA



- ▶ (EN) Professional MIG-MAG, TIG (DC), MMA welding machines with inverter.
- ▶ (IT) Saldatrici professionali ad inverter MIG-MAG, TIG (DC), MMA.
- ▶ (FR) Postes de soudage professionnels à inverseur MIG-MAG, TIG (DC), MMA.
- ▶ (ES) Soldadoras profesionales con inverter MIG-MAG, TIG (DC), MMA.
- ▶ (DE) Professionelle Schweißmaschinen MIG-MAG, TIG (DC), MMA mit Invertertechnik.
- ▶ (RU) Профессиональные сварочные аппараты с инвертером MIG-MAG, TIG (DC), MMA.
- ▶ (PT) Aparelhos de soldar profissionais com variador de frequência MIG-MAG, TIG (DC), MMA.
- ▶ (NL) Professionele lasmachines met inverter MIG-MAG, TIG (DC), MMA.
- ▶ (EL) Επαγγελματικοί συγκολλητές με ινβέρτερ MIG-MAG, TIG (DC), MMA.
- ▶ (RO) Aparate de sudură cu inverter pentru sudura MIG-MAG, TIG (DC), MMA, destinate uzului profesional.
- ▶ (SV) Professionella svetsar med växelriktare MIG-MAG, TIG (DC), MMA.
- ▶ (CS) Profesionální svařovací agregáty pro svařování MIG-MAG, TIG (DC), MMA.
- ▶ (HR-SR) Profesionalni stroj za varenje sa inverterom MIG-MAG, TIG (DC), MMA.
- ▶ (PL) Profesjonalne spawarki inwerterowe MIG-MAG, TIG (DC), MMA.
- ▶ (FI) Ammattihiatuslaitteet vaihtosuuntaajalla MIG-MAG, TIG (DC), MMA.
- ▶ (DA) Professionelle svejsemaskiner med inverter MIG-MAG, TIG (DC), MMA.
- ▶ (NO) Profesjonelle sveisebrenner med inverter MIG-MAG, TIG (DC), MMA.
- ▶ (SL) Profesionalni varilni aparati s frekvenčnim menjalnikom MIG-MAG, TIG (DC), MMA.
- ▶ (SK) Profesionálne zvaracie agregáty pre zváranie MIG-MAG, TIG (DC), MMA.
- ▶ (HU) Profesionális MIG-MAG, TIG (DC), MMA inverteresztők.
- ▶ (LT) Profesionalūs suvirinimo aparatai su Inverteriu MIG-MAG, TIG (DC), MMA.
- ▶ (ET) Inverter MIG-MAG, TIG (DC), MMA professionaalsed keevitusaparaadid.
- ▶ (LV) Profesionālie metināšanas aparāti ar inverteru MIG-MAG, TIG (DC), MMA metināšanai.
- ▶ (BG) Професионални инверторни електрожени за заваряване MIG-MAG, TIG (DC), MMA.
- ▶ (TR) Inverterli Profesyonel MIG-MAG, TIG (DC), MMA kaynak makineleri.
- ▶ (AR) آلات لحام احترافية ذات محول للحام بالقوس المعدني بالغاز الخامل- القوس المعدني بالغاز النشط، لحام بغاز التنجستن الخامل (تيار مستمر)، لحام بالقوس المعدني اليديوي.

(EN)	EXPLANATION OF DANGER, MANDATORY AND PROHIBITION SIGNS.	(PL)	OBJAŚNIENIA ZNAKÓW OSTRZEŻAWCZYCH, NAKAZU I ZAKAZU.
(IT)	LEGENDA SEGNALI DI PERICOLO, D'OBBLIGO E DIVIETO.	(FI)	VAROITUS, VELVOITUS, JA KIELTOMERKIT.
(FR)	LÉGENDE SIGNAUX DE DANGER, D'OBLIGATION ET D'INTERDICTION.	(DA)	OVERSIGT OVER FARE, PLIGT OG FORBUDSSIGNALER.
(ES)	LEYENDA SEÑALES DE PELIGRO, DE OBLIGACIÓN Y PROHIBICIÓN.	(NO)	SIGNALERINGSTEKST FOR FARE, FORPLIKTELSE OG FORBUD.
(DE)	LEGENDE DER GEFÄHREN-, GEBOTS- UND VERBOTSZEICHEN.	(SK)	LEGENDA SIGNALOV ZA NEVARNOST, ZA PREDPISANO IN PREPOVEDANO.
(RU)	ЛЕГЕНДА СИМВОЛОВ БЕЗОПАСНОСТИ, ОБЯЗАНОСТИ И ЗАПРЕТА.	(SL)	VYSVETLIVKY K SIGNALOM NEBEZPEČENSTVA, PRAKAZOM A ZAKAZOM.
(PT)	LEGENDA DOS SINAIS DE PERIGO, OBRIGAÇÃO E PROIBIDO.	(HU)	A VESZÉLY, KÖTELEZETTSÉG ÉS TILTÁS JELZÉSÉINEK FELÍRÁSA.
(NL)	LEGENDE SIGNALEN VAN GEVAAR, VERPLICHTING EN VERBOD.	(LT)	PAVOJAUS, PRIVALOMŪJŲ IR DRAUDŽIAMŲJŲ ZENKLŲ PAAIŠKINIMAS.
(EL)	ΛΕΓΑΝΤΑ ΣΗΜΑΤΩΝ ΚΙΝΔΥΝΟΥ, ΥΠΟΧΡΕΩΣΗΣ ΚΑΙ ΑΠΑΓΟΡΕΥΣΗΣ.	(ET)	OHUD, KOHUSTUSED JA KEELUD.
(RO)	LEGENDĂ INDICATOARE DE AVERTIZARE A PERICOLELOR, DE OBLIGARE ȘI DE INTERZICERE.	(LV)	BĪSTAMĪBU, PIENĀKUMU UN AIZLIEGUMA ZĪMJU PASKAIDROJUMI.
(SV)	BILDTEXT SYMBOLER FÖR FARA, PÅBUD OCH FÖRBUD.	(BG)	ЛЕГЕНДА НА ЗНАЦИТЕ ЗА ОПАСНОСТ, ЗАДЪЛЖИТЕЛНИ И ЗА ЗАБРАНА.
(CS)	VYSVĚTLIVKY K SIGNALŮM NEBEZPEČI, PŘIKAZŮM A ZÁKAZŮM.	(TR)	TEHLİKELER, ZORUNLULUK VE YASAK İŞARETLERİNİN AÇIKLAMASI.
(HR-SR)	LEGENDA OZNAKA OPASNOSTI, OBAVEZA I ZABRANA.	(AR)	مفاتيح رموز الخطر والإلزام والحظر

	(EN) DANGER OF ELECTRIC SHOCK - (IT) PERICOLO SHOCK ELETTRICO - (FR) RISQUE DE CHOC ÉLECTRIQUE - (ES) PELIGRO DESCARGA ELÉCTRICA - (DE) STROMSCHLÄGGEFAHR - (RU) ОПАСНОСТЬ ПОРАЖЕНИЯ ЭЛЕКТРИЧЕСКИМ ТОКОМ - (PT) PERIGO DE CHOQUE ELÉCTRICO - (NL) GEVAAR ELEKTRESHOCK - (EL) ΚΙΝΔΥΝΟΣ ΗΛΕΚΤΡΟΠΛΗΘΙΑΣ - (RO) PERICOL DE ELECTROCUTARE - (SV) FARA FÖRELEKTRISK STÖT - (CS) NEBEZPEČI ZÁSAHU ELEKTRICKÝM PŮDĚM - (HR-SR) OPASNOST STRUJNOG UDARA - (PL) NIEBEZPIECZEŃSTWO SZOKU ELEKTRYCZNEGO - (FI) SÄHKÖISKUNVAARA - (DA) FARE FOR ELEKTRISK STØD - (NO) FARE FOR ELEKTRISK STØT - (SL) NEVARNOST ELEKTRICNEGA UDARA - (SK) NEBEZPEČENSTVO ZÁSAHU ELEKTRICKÝM PŮDĚM - (HU) ÁRAMTŰVESZÉLYE - (LT) ELEKTROS SMŪGIO PAVOJUS - (ET) ELEKTRILÕÕGIHT - (LV) ELEKTROŠOKA BĪSTAMĪBA - (BG) ОПАСНОСТ ОТ ТОКОВ УДАР - (TR) ELEKTRİK ÇARPMASI TEHLİKESİ - (AR) خطر الصدمة الكهربائية
	(EN) DANGER OF WELDING FUMES - (IT) PERICOLO FUMI DI SALDATURA - (FR) DANGER FUMÉES DE SOUDAGE - (ES) PELIGRO HUMOS DE SOLDADURA - (DE) GEFAHR DER ENTWICKLUNG VON RAUCHGASEN BEIM SCHWEISSEN - (RU) ОПАСНОСТЬ ДЫМОВ СВАРКИ - (PT) PERIGO DE FUMAÇAS DE SOLDAGEM - (NL) GEVAAR LASROOK - (EL) ΚΙΝΔΥΝΟΣ ΚΑΠΝΟΥ ΣΥΓΚΟΛΛΗΣΗΣ - (RO) PERICOL DE GAZE DE SUDURĂ - (SV) FARA FÖR RÖK FRÅN SVETSNING - (CS) NEBEZPEČI SVAŘOVACÍCH DÝMŮ - (HR-SR) OPASNOST OD DIMA PRILIKOM VARENJA - (PL) NIEBEZPIECZEŃSTWO OPARÓW SPAWALNICZYCH - (FI) HITAUSSAUVUJEN VAARA - (DA) FARE P.G.A. SVEJSEDDAMPE - (NO) FARE FOR SVEIJSERØYK - (SL) NEVARNOST VARILNEGA DIMA - (SK) NEBEZPEČENSTVO VÝPAROV ZO ZVÁRANIA - (HU) HEGESZTÉS KÖVETKEZÉBEN KELETKEZT FŰST VESZÉLYE - (LT) SUVIRINIMO DŪMŲ PAVOJUS - (ET) KEEVITAMISEL SUITSU OHT - (LV) METINĀŠANAS IZVAIKOJUMU BĪSTAMĪBA - (BG) ОПАСНОСТ ОТ ПУШЕКА ПРИ ЗАВАРЯВАНЕ - (TR) KAYNAK DUMANI TEHLİKESİ - (AR) خطر أدخنة الحام
	(EN) DANGER OF EXPLOSION - (IT) PERICOLO ESPLOSIONE - (FR) RISQUE D'EXPLOSION - (ES) PELIGRO EXPLOSIÓN - (DE) EXPLOSIONSGEFAHR - (RU) ОПАСНОСТЬ ВЗРЫВА - (PT) PERIGO DE EXPLOÇÃO - (NL) GEVAAR ONTPLOFFING - (EL) ΚΙΝΔΥΝΟΣ ΕΚΡΗΞΗΣ - (RO) PERICOL DE EXPLOZIE - (SV) FARA FÖR EXPLOSION - (CS) NEBEZPEČI VÝBUCHU - (HR-SR) OPASNOST OD EKSPLOZIJE - (PL) NIEBEZPIECZEŃSTWO WYBUCHU - (FI) RÄJÄHDYSVAARA - (DA) SPRÆNGFARE - (NO) FARE FOR EKSPLOSJON - (SL) NEVARNOST EKSPLOZIJE - (SK) NEBEZPEČENSTVO VÝBUCHU - (HU) ROBBANÁS VESZÉLYE - (LT) SPROGIMO PAVOJUS - (ET) PLAHVATUSOHT - (LV) SPRĀDZIENBĪSTAMĪBA - (BG) ОПАСНОСТ ОТ ЕКСПЛОЗИЯ - (TR) PATLAMA TEHLİKESİ - (AR) خطر الانفجار
	(EN) WEARING PROTECTIVE CLOTHING IS COMPULSORY - (IT) OBBLIGO INDOSSARE INDUMENTI PROTETTIVI - (FR) PORT DES VÊTEMENTS DE PROTECTION OBLIGATOIRE - (ES) OBLIGACIÓN DE LLEVAR ROPA DE PROTECCIÓN - (DE) DAS TRAGEN VON SCHUTZKLEIDUNG IST PFLICHT - (RU) ОБЯЗАНОСТЬ НАДЕВАТЬ ЗАЩИТНУЮ ОДЕЖДУ - (PT) OBRIGATORIO O USO DE VESTUÁRIO DE PROTEÇÃO - (NL) VERPLICHT BESCHERMENDE KLEDUUTEDRAGEN - (EL) ΥΠΟΧΡΕΩΣΗ ΝΑ ΦΟΡΑΤΕ ΠΡΟΣΤΑΤΕΥΤΙΚΑ ΕΝΔΥΜΑΤΑ - (RO) FOLOSIREA ÎMBRĂCĂMINTEI DE PROTECȚIE OBLIGATORIE - (SV) OBLIGATORISKT ATT BÄRASKYDDSPLAGG - (CS) POVINNÉ POUŽITÍ OCHRANNÝCH PROSTŘEDKŮ - (HR-SR) OBAVEZNO KORISTENJE ZAŠTITNE ODEJICE - (PL) NAKAZ NOSZENIA OCHRONNYCH - (FI) SUOJAAVAETUKSEN KÄYTTÖ PAKOLLISTA - (DA) PLIGT TIL AT ANVENDE BESKYTTELSESTØJ - (NO) FORPLIKTELSE Å BRUKE VERNEØYK - (SL) OBEZNO OBLICITE ZAŠČITNA OBLAČILA - (SK) POVINNÉ POUŽITIE OCHRANNÝCH PROSTRIEDKOV - (HU) VÉDŐRUHA HASZNÁLATA KÖTELEZŐ - (LT) PRIVALOMA DĖVĖTI APSAUGINĖ APRANGA - (ET) KOHUSTUSLIK KANDA KAITSERIETUST - (LV) PIENĀKUMS ĢĒRBT AIZSARGTĒRPUS - (BG) ЗАДЪЛЖИТЕЛНО НОСЕНЕ НА ПРЕДПАЗНО ОБЛЕКО - (TR) KORUYUCU GİYİŞİ GYM EK ZORUNLUDUR - (AR) الالتزام بارتداء الملابس الوقائية
	(EN) WEARING PROTECTIVE GLOVES IS COMPULSORY - (IT) OBBLIGO INDOSSARE GUANTI PROTETTIVI - (FR) PORT DES GANTS DE PROTECTION OBLIGATOIRE - (ES) OBLIGACIÓN DE LLEVAR GUANTES DE PROTECCIÓN - (DE) DAS TRAGEN VON SCHUTZHANDSCHUHEN IST PFLICHT - (RU) ОБЯЗАНОСТЬ НАДЕВАТЬ ЗАЩИТНЫЕ ПЕРЧАТКИ - (PT) OBRIGATORIO O USO DE LUVAS DE SEGURANÇA - (NL) VERPLICHT BESCHERMENDE HANDSCHOENEN TE DRAGEN - (EL) ΥΠΟΧΡΕΩΣΗ ΝΑ ΦΟΡΑΤΕ ΠΡΟΣΤΑΤΕΥΤΙΚΑ ΓΑΝΤΙΑ - (RO) FOLOSIREA MĂNUȘILOR DE PROTECȚIE OBLIGATORIE - (SV) OBLIGATORISKT ATT BÄRSKYDDSHANDSKAR - (CS) POVINNÉ POUŽITÍ OCHRANNÝCH RUKAVIC - (HR-SR) OBAVEZNO KORISTENJE ZAŠTITNIH RUKAVICA - (PL) NAKAZ NOSZENIA RĘKAWIC OCHRONNYCH - (FI) SUOJAAKÄSINEIDEN KÄYTTÖ PAKOLLISTA - (DA) PLIGT TIL AT BRUGE BESKYTTELSHANDSKER - (NO) FORPLIKTELSE Å BRUKE VERNEHANSKER - (SL) OBEZNO NADENITE ZAŠČITNE ROKAVICE - (SK) POVINNÉ POUŽITIE OCHRANNÝCH RUKAVIC - (HU) VÉDŐKESZTYŰ HASZNÁLATA KÖTELEZŐ - (LT) PRIVALOMA MŪVĖTI APSAUGINĖ PIŠTINES - (ET) KOHUSTUSLIK KANDA KAITSEKINDAID - (LV) PIENĀKUMS ĢĒRBT AIZSARGCIMDUS - (BG) ЗАДЪЛЖИТЕЛНО НОСЕНЕ НА ПРЕДПАЗНИ РЪКАВИЦИ - (TR) KORUYUCU ELĐİVEN KULLANMAK ZORUNLUDUR - (AR) الالتزام بارتداء القفازات الوقائية
	(EN) DANGER OF ULTRAVIOLET RADIATION FROM WELDING - (IT) PERICOLO RADIAZIONI ULTRAVIOLETTE DA SALDATURA - (FR) DANGER RADIATIONS ULTRAVIOLETTES DE SOUDAGE - (ES) PELIGRO RADIACIONES ULTRAVIOLETAS - (DE) GEFAHR ULTRAVIOLETT STRahlungen BEIM SCHWEISSEN - (RU) ОПАСНОСТЬ УЛЬТРАФИОЛЕТОВОГО ИЗЛУЧЕНИЯ СВАРКИ - (PT) PERIGO DE RADIACÕES ULTRAVIOLETAS DE SOLDADURA - (NL) GEVAAR ULTRAVIOLETT STRALEN VAN HET LASSEN - (EL) ΚΙΝΔΥΝΟΣ ΥΠΕΡΙΘΛΑΟΥΣ ΑΚΤΙΝΟΒΟΛΙΑΣ ΑΠΟ ΣΥΓΚΟΛΛΗΣΗΣ - (RO) PERICOL DE RADIAȚII ULTRAVIOLETE DE LA SUDURĂ - (SV) FARA FÖR ULTRAVIOLETT STRÅLNING FRÅN SVETSNING - (CS) NEBEZPEČI ULTRAFIALOVÉHO ŽÁŘENÍ ZE SVAŘOVÁNÍ - (HR-SR) OPASNOST OD ULTRALJUBIČASTIH ZRAKA PRILIKOM VARENJA - (PL) NIEBEZPIECZEŃSTWO PROMIENIOWANIA NADFIOLETOWEGO PODCZAS SPAWANIA - (FI) HITAUSKAUSEN AIHEUTTAMAN ULTRAVIOLETTISÄTELYN VAARA - (DA) FARE FOR ULTRAVIOLETTE SVEJSESTRÅLER - (NO) FARE FOR ULTRAVIOLETTE STRÅLNING UNDER SVEIJSINGSPROSEDYREN - (SL) NEVARNOST SEVANJA ULTRAVIOLETNIH ZARJAV ZARADI VARJENJA - (SK) NEBEZPEČENSTVO ULTRAFIALOVÉHO ŽIARENIA ZO ZVÁRANIA - (HU) HEGESZTÉS KÖVETKEZÉBEN LÉTREJÖTT IBOLYANTŰLI SUGÁRZÁS VESZÉLYE - (LT) ULTRAVIOLETINIOSPINDULIAVIMOSUVIRINIMOMETUPAVOJUS - (ET) KEEVITAMISELERALDUVAULTRAVIOLETTKIIRGUSEOHT - (LV) METINĀŠANAS ULTRAVIOLETAIZSTAROJUMA BĪSTAMĪBA - (BG) ОПАСНОСТ ОТ УЛТРАВИОЛЕТОВО ОБЛЪЧВАНЕ ПРИ ЗАВАРЯВАНЕ - (TR) KAYNAKTAN ULTRAVIOLE İŞİMA TEHLİKESİ - (AR) خطر التعرض للأشعة تحت البنفسجية الناتجة عن اللحام
	(EN) DANGER OF FIRE - (IT) PERICOLO INCENDIO - (FR) RISQUE D'INCENDIE - (ES) PELIGRO DE INCENDIO - (DE) BRANDGEFAHR - (RU) ОПАСНОСТЬ ПОЖАРА - (PT) PERIGO DE INCÊNDIO - (NL) GEVAAR VOOR BRAND - (EL) ΚΙΝΔΥΝΟΣ ΠΥΡΚΑΓΙΑΣ - (RO) PERICOL DE INCENDIU - (SV) BRANDRISK - (CS) NEBEZPEČI POŽÁRU - (HR-SR) OPASNOST OD POŽARA - (PL) NIEBEZPIECZEŃSTWO POŻARU - (FI) TULIPALON VAARA - (DA) BRANDFARE - (NO) BRANNFARE - (SL) NEVARNOST POŽARA - (SK) NEBEZPEČENSTVO POŽIARU - (HU) TŰZVESZÉLYE - (LT) GAISRO PAVOJUS - (ET) TULEOHT - (LV) UGUNSGRĒKA BĪSTAMĪBA - (BG) ОПАСНОСТ ОТ ПОЖАР - (TR) YANGIN TEHLİKESİ - (AR) خطر التسبب في إندلاع حريق
	(EN) DANGER OF BURNS - (IT) PERICOLO DI USTIONI - (FR) RISQUE DE BRÛLURES - (ES) PELIGRO DE QUEMADURAS - (DE) VERBRENNUNGSGEFAHR - (RU) ОПАСНОСТЬ ОЖОГОВ - (PT) PERIGO DE QUEIMADURAS - (NL) GEVAAR VOOR BRANDWONDEN - (EL) ΚΙΝΔΥΝΟΣ ΕΓΚΑΥΜΑΤΩΝ - (RO) PERICOL DE ARSURI - (SV) RISK FÖR BRÄNNKÅDA - (CS) NEBEZPEČI POPALENÍ - (HR-SR) OPASNOST OD OPEKLINA - (PL) NIEBEZPIECZEŃSTWO OPARZEN - (FI) PALOVAMMOJEN VAARA - (DA) FARE FOR FORBRÆNDINGER - (NO) FARE FOR FORBRENNINGER - (SL) NEVARNOST OPEKLIN - (SK) NEBEZPEČENSTVO POPALENÍ - (HU) ÉGÉSI SÉRŰLÉS VESZÉLYE - (LT) NUŠIDĖGINIMO PAVOJUS - (ET) PÕLETUSHAAVADE SAAMISE OHT - (LV) APDEGUMU GŪŠANAS BĪSTAMĪBA - (BG) ОПАСНОСТ ОТ ИЗГАРЯНИЯ - (TR) YANIK TEHLİKESİ - (AR) خطر التعرض لحروق
	(EN) DANGER OF NON-IONISING RADIATION - (IT) PERICOLO RADIAZIONI NON IONIZZANTI - (FR) DANGER RADIATIONS NON IONISANTES - (ES) PELIGRO RADIACIONES NO IONIZANTES - (DE) GEFAHR NICHT IONISIERENDER STRahlungen - (RU) ОПАСНОСТЬ НЕ ИОНИЗИРУЮЩЕЙ РАДИАЦИИ - (PT) PERIGO DE RADIACÕES NÃO IONIZANTES - (NL) GEVAAR NIET IONISERENDE STRALEN - (EL) ΚΙΝΔΥΝΟΣ ΜΗ ΙΟΝΙΖΟΝΤΩΝ ΑΚΤΙΝΟΒΟΛΙΩΝ - (RO) PERICOL DE RADIAȚII NEIONIZANTE - (SV) FARA FÖR ICKE JONISERANDE - (CS) NEBEZPEČI NEIONIZUJÍCÍHO ŽÁŘENÍ - (HR-SR) OPASNOST NEJONIZIRAJUĆIH ZRAKA - (PL) ZAGROŻENIE PROMIENIOWANIEM NEJONIZUJĄCYM - (FI) IONISAMATTOMAN SÄTELYN VAARA - (DA) FARE FOR IKKE-IONISERENDE STRÅLER - (NO) FARE FOR UJONISERT STRÅLNING - (SL) NEVARNOST NEJONIZIRANEGA SEVANJA - (SK) NEBEZPEČENSTVO NEJONIZUJÚCEHO ZARIADENIA - (HU) NEM INOGEN SUGÁRZÁS VESZÉLYE - (LT) NEJONIZUOTO SPINDULIAVIMO PAVOJUS - (ET) MITTEIONISEERITUDKIIRGUSTE OHT - (LV) NEJONIZĒJOŠA IZSTAROJUMA BĪSTAMĪBA - (BG) ОПАСНОСТ ОТ НЕ ИОНИЗИРАНО ОБЛЪЧВАНЕ - (TR) İYONLAŞTIRICI OLMAYAN RADIASYON TEHLİKESİ - (AR) خطر التعرض للإشعاعات غير مؤينة
	(EN) GENERAL HAZARD - (IT) PERICOLO GENERICO - (FR) DANGER GÉNÉRIQUE - (ES) PELIGRO GENÉRICO - (DE) GEFAHR ALLGEMEINER ART - (RU) ОБЩАЯ ОПАСНОСТЬ - (PT) PERIGO GERAL - (NL) ALGEMEEN GEVAAR - (EL) ΓΕΝΙΚΟΣ ΚΙΝΔΥΝΟΣ - (RO) PERICOL GENERAL - (SV) ALLMÄN FARA - (CS) VŠEOBECNĚ NEBEZPEČI - (HR-SR) OPĆA OPASNOST - (PL) OGÓLNE NIEBEZPIECZEŃSTWO - (FI) YLEINEN VAARA - (DA) ALMEN FARE - (NO) GENERISK FARE STRÅLNING - (SL) SPLOŠNA NEVARNOST - (SK) VŠEOBECNĚ NEBEZPEČENSTVO - (HU) ÁLTALÁNOS VESZÉLYE - (LT) BENDRAS PAVOJUS - (ET) ÜLDINE OHT - (LV) VISPĀRĪGA BĪSTAMĪBA - (BG) ОБЩИ ОПАСНОСТИ - (TR) GENEL TEHLİKE - (AR) خطر عام
	(EN) DO NOT USE THE HANDLE TO HANG THE WELDING MACHINE. - (IT) VIETATO UTILIZZARE LA MANIGLIA COME MEZZO DI SOSPENSIONE DELLA SALDATURA - (FR) INTERDIT D'UTILISER LA POIGNÉE COMME MOYEN DE SUSPENSION DU POSTE DE SOUDAGE - (ES) SE PROHÍBE UTILIZAR LA MANILLA COMO MEDIO DE SUSPENSIÓN DE LA SOLDADORA - (DE) ES IST UNTERSAGT, DEN GRIFF ALS MITTEL ZUM AUFHÄNGEN DER SCHWEISSMASCHINE ZU BENUTZEN - (RU) ЗАПРЕЩЕНО ПОДВЕШИВАТЬ СВАРОЧНЫЙ АППАРАТ ЗА РУЧКУ - (PT) É PROIBIDO UTILIZAR A MAÇANETA COMO MEIO DE SUSPENSÃO DO APARELHO DE SOLDAR - (NL) DE HANDGREEP MAG NIET WORDEN GEBRUIKT OM HET LASAPPARAAT AAN OP TE HANGEN - (EL) ΑΠΑΓΟΡΕΥΕΤΑΙ Η ΧΡΗΣΗ ΤΗΣ ΧΕΙΡΟΛΑΒΗΣ ΣΑΝ ΜΕΣΟ ΑΝΥΨΩΣΗΣ ΤΗΣ ΣΥΓΚΟΛΛΗΤΗΡΙΚΗΣ ΣΥΣΚΕΥΗΣ - (RO) SE INTERZICE FOLOSIREA MĂNERULUI CA MIJLOC DE SUSTINERE A APARATULUI DE SUDURĂ - (SV) DET ÄR FÖRBUDET ATT ANVÄNDA HANDETGET FÖR ATT HÄNGA UPP SVETSEN - (CS) JE ZAKÁZANO POUŽITÍ RUKOJEŤ JAKO PROSTŘEDEK K ZAVĚŠENÍ SVAŘOVACÍHO PŘÍSTROJE - (HR-SR) ZABRANJENO JE UPOTREBLJAVATI RUKCU ZA PODIZANJE STROJA ZA VARENJE - (PL) ZABRANIA SIE UŻYWANIA UCHWYTU JAKO ŚRODKA DO ZAWIESZANIA SPAWARKI - (FI) ON KIELLETTYÄ KÄYTTÄÄ KÄSIKÄNVAA HITAUSLAITTEEN RISTUSTUSVÄLINEENÄ - (DA) DET ER FORBUDT AT ANVENDE HÅNDBRETT TIL AT HÆVE SVEJSEMASKINEN - (NO) DET ER FORBUDT Å BRUKE HÅNDDAKET FOR Å HENGE SVEISEMASKINEN OPP - (SL) ROČAJA NE SMETE UPORABLJATI ZA OBEŠANJE VARILNEGA APARATA - (SK) JE ZAKÁZANÉ VEŠAŤ ZVÁRACÍ PŘÍSTROJ ZA RUKOVĚT - (HU) TILOS A HEGESZTŐGÉP ET A FOGANTYÚJÁNÁL FOGVA FELAKASZTANI - (LT) DRAUDŽIAMA NAUDOTI RANKENĄ KAIP PRIEMONINAMŲJŲ APARATO SUSTABDYMUI - (ET) ON KEELATU TIIPUTADA KEEVITUSADEET KASUTADES SELLEKS KÄEPIDET - (LV) IR AIZLIEGTS IZMANTOT ROKURTI METINĀŠANAS APARĀTĀ PIEKĀRŠANAI - (BG) ЗАБРАНЕНО Е ДА СЕ ИЗПОЛЗВА РЪКОХВАТКАТА КАТО СРЕДСТВО ЗА ОКАЧВАНЕ НА ЗАВАРЪЧНИЯ АПАРАТ - (TR) KAYNAK MAKİNESİNİ SAPINDAN ASMAYIN - (AR) حظر استخدام المقبض كوسيلة تعليق أداة اللحام
	(EN) WARNING: MOVING PARTS - (IT) ATTENZIONE ORGANI IN MOVIMENTO - (FR) ATTENTION ORGANES EN MOUVEMENT - (ES) ATENCIÓN ORGANOS EN MOVIMIENTO - (DE) VORSICHT BEWEGUNGSELEMENTE - (RU) ВНИМАНИЕ, ЧАСТИ В ДВИЖЕНИИ - (PT) CUIDADO ÓRGÃOS EM MOVIMENTO - (NL) OPGELET ORGANEN IN BEWEGING - (EL) ΠΡΟΣΟΧΗ ΟΡΓΑΝΑ ΣΕ ΚΙΝΗΣΗ - (RO) ATENȚIE PIESE ÎN MIȘCARE - (SV) VARNING FÖR ORGAN I RÖRELSE - (CS) POZOR NA POHYBUJÍCÍ SE SOUČÁSTI - (HR-SR) POZOR DIJELOVI U POKRETU - (PL) UWAGA: RUCHOME CZĘŚCI MASZYN - (FI) VARO LIIKKUVIA OSIA - (DA) PAS PÅ DELE I BEVÆGELSE - (NO) ADVARSEL: BEVEGELIGE DELER - (SL) POZOR, NAPRAVE DELUJEJO - (SK) POZOR NA POHYBUJÚCE SA SÚČASTI - (HU) VIGYÁZAT: GÉPALKATRÉSZEK MOZGÁSBAN VANNAK - (LT) DĖMESIO! JUDANČIOS DETALĖS - (ET) TÄHELEPANU! LIKUVAD MASINAOSAD - (LV) UZMANĪBU KUSTĪGĀS DAĻAS - (BG) ВНИМАНИЕ! ДВИЖЕЩИ СЕ МЕХАНИЗМИ - (TR) DİKKAT: HAREKETLİ PARÇALAR - (AR) انتبه أجزاء متحركة
	(EN) MIND YOUR HANDS, MOVING PARTS - (IT) ATTENZIONE ALLE MANI, ORGANI IN MOVIMENTO - (FR) ATTENTION AUX MAINS, ORGANES EN MOUVEMENT - (ES) ATENCIÓN A LAS MANOS, ORGANOS EN MOVIMIENTO - (DE) AUF DIE HÄNDE ACHTEN, BEWEGUNGSELEMENTE - (RU) ОПАСНОСТЬ ДЛЯ РУК, ЧАСТИ В ДВИЖЕНИИ - (PT) CUIDADO COM AS MÃOS, ÓRGÃOS EM MOVIMENTO - (NL) OPGELET VOOR DE HANDEN, ORGANEN IN BEWEGING - (EL) ΠΡΟΣΟΧΗ ΣΤΑ ΧΕΡΙΑ, ΟΡΓΑΝΑ ΣΕ ΚΙΝΗΣΗ - (RO) ATENȚIE LA MÂINI, PIESE ÎN MIȘCARE - (SV) AKTA HÄNDERNA, ORGAN I RÖRELSE - (CS) POZOR NA RUCY, POHYBUJÍCÍ SE SOUČÁSTI - (HR-SR) POZOR SA RUKAMA, DIJELOVI U POKRETU - (PL) CHRONIĆ RECE PRZECI RUCHYMI CZĘŚCIAMI MASZYN - (FI) SUOJAA KÄDET LIKKUVIUTA OSILTA - (DA) PAS PÅ HÆNDERNE, DELE I BEVÆGELSE - (NO) FORSIKTIG MED HENDENE, BEVEGELIGE DELER - (SL) PAZITE NA ROKE, NAPRAVE DELUJEJO - (SK) POZOR NA RUKY, POHYBUJÚCE SA SÚČASTI - (HU) VIGYÁZAT A KEZEKRE, GÉPALKATRÉSZEK MOZGÁSBAN VANNAK - (LT) SAUGOTI RANKAS, JUDANČIOS DETALĖS - (ET) TÄHELEPANU KÄTELE, LIKUVAD MASINAOSAD - (LV) UZMANĪBU SEKOJĒT TAM, LAI ROKAS NEPIESKARTOS KUSTĪGĀJAM DAĻĀM - (BG) ВНИМАНИЕ! ПАЗЕТЕ РЪЧЕТЕ ОТ ДВИЖЕЩИТЕ СЕ МЕХАНИЗМИ - (TR) ELİNİZE DİKKAT EDİN: HAREKETLİ PARÇALAR - (AR) انتبه إلى اليدين، أجزاء متحركة

	<p>(EN) EYE PROTECTIONS MUST BE WORN - (IT) OBBLIGO DI INDOSSARE OCCHIALI PROTETTIVI - (FR) PORT DES LUNETTES DE PROTECTION OBLIGATOIRE - (ES) OBLIGACIÓN DE USAR GAFAS DE PROTECCIÓN - (DE) DAS TRAGEN EINER SCHUTZBRILLE IST PFLICHT - (RU) ОБЯЗАННОСТЬ НОСИТЬ ЗАЩИТНЫЕ ОЧКИ - (PT) OBRIGAÇÃO DE VESTIR ÓCULOS DE PROTEÇÃO - (NL) VERPLICHT DRAGEN VAN BESCHERMENDE BRIL - (EL) ΥΠΟΧΡΕΩΣΗ ΗΝ ΦΟΡΑΤΕ ΠΡΟΤΕΡΑΤΕΥΤΙΚΑ ΓΥΑΛΙΑ - (RO) ESTE OBLIGATORIE PURTAREA OCHELARILOR DE PROTECȚIE - (SV) OBLIGATORISKT ATT ANVÄNDA SKYDDSGLASÖGON - (CS) POVINNOST POUŽÍVÁNÍ OCHRANNÝCH BRÝLÍ - (HR-SR) OBAVEZNA UPOTREBA ZAŠTITNIH NAČČALA - (PL) NAKAZ NOSZENIA OKULARÓW OCHRONNYCH - (FI) SUOJALASIEN KÄYTTÖ PAKOLLISETA - (DA) PLIGT TIL AT ANVENDE BESKYTTELSESBRILLER - (NO) DET ER OBLIGATORISK Å HA PÅ SEG VERNEBRILLER - (SL) OBEVZNA UPORABA ZAŠČITNIH OČAL - (SK) POVINNOST POUŽÍVANIA OCHRANNÝCH OKULIAROV - (HU) VÉDŐSZEMÉLYEK VISELETÉ KÖTELEZŐ - (LT) PRIVALOMA DIRBTI SU APSAUGINIAMS AKINIAMS - (ET) KOHUSTUS KANDA KAITSEPRILLE - (LV) PIENĀKUMS VILKT AIZSARGBRILLES - (BG) ЗАДЪЛЖИТЕЛНО ДА СЕ НОСЯТ ПРЕДПАЗНИ ОЧИЛА - (TR) KORUYUCU GÖZLÜK KULLANILMALIDIR - (AR) الالتزام بارتداء نظارات واقية</p>
	<p>(EN) NO ENTRY FOR UNAUTHORISED PERSONNEL - (IT) DIVIETO DI ACCESSO ALLE PERSONE NON AUTORIZZATE - (FR) ACCÈS INTERDIT AUX PERSONNES NON AUTORISÉES - (ES) PROHIBIDO EL ACCESO A PERSONAS NO AUTORIZADAS - (DE) UNBEFUGTEN PERSONEN IST DER ZUTRITT VERBOTEN - (RU) ЗАПРЕТ ДЛЯ ДОСТУПА ПОСТОРОННИХ ЛИЦ - (PT) PROIBIÇÃO DE ACESSO ÀS PESSOAS NÃO AUTORIZADAS - (NL) TOEGANGSVERBOD VOOR NIET GEAUTORISEERDE PERSONEN - (EL) ΑΠΑΓΟΡΕΥΣΗ ΠΡΟΣΒΑΣΗΣ ΣΕ ΜΗ ΕΠΙΤΡΕΠΜΕΝΑ ΑΤΟΜΑ - (RO) ACCESUL PERSOANELOR NEAUTORIZATE ESTE INTERZIS - (SV) TILLTRÄDE FÖRBJUDET FÖR ICKE AUKTORISERADE PERSONER - (CS) ZÁKAZ VSTUPU NEPOVOLANÝM OSOBÁM - (HR-SR) ZABRANA PRISTUPA NEOVLASTENIM OSOBAMA - (PL) ZAKAZ DOSTĘPU OSOBOM NIEUPRAWNIENIOM - (FI) PÄÄSY KIELLETTY ASIATTOIMITA - (DA) ADGANG FORBUDT FOR UVEDKOMMENDE - (NO) PERSONER SOM IKKE ER AUTORSERTE MÅ IKKE HA ADGANG TIL APPARATEN - (SL) DOSTOP PREPOVEDANA NEPOVOLANĀNEN OSOBAM - (SK) ZÁKAZ NEOPRÁVNĚNÉHO PRÍSTUPU K OSŮB - (HU) FEL NEM JOGOSÍTOTT SZEMÉLYEK SZÁMÁRA TILOS A BELÉPÉS - (LT) PAŠALINIAMS JEITI DRAUŽIAMA - (ET) SELLEKS VOLITAMATA ISIKUTEL ON TÕOALAS VIIBIMINE KEELATUD - (LV) NEPIEDEROSĀM PERSONĀM IEEJA AIZLIEGTĀ - (BG) ЗАБРАНЕН Е ДОСТЪПЪТ НА НЕУПЪЛНОМОЩНИ ЛИЦА - (TR) YETKİLİ OLMAYAN KİŞİLER GİREMEZ - (AR) يحظر الدخول على الأشخاص الغير مصرح لهم</p>
	<p>(EN) WEARING A PROTECTIVE MASK IS COMPULSORY - (IT) OBBLIGO USARE MASCHERA PROTETTIVA - (FR) PORT DU MASQUE DE PROTECTION OBLIGATOIRE - (ES) OBLIGACIÓN DE USAR MÁSCARA DE PROTECCIÓN - (DE) DER GEBRAUCH EINER SCHUTZMASKE IST PFLICHT - (RU) ОБЯЗАННОСТЬ ПОЛЬЗОВАТЬСЯ ЗАЩИТНОЙ МАСКОЙ - (PT) OBRIGATORIO O USO DE MÁSCARA DE PROTEÇÃO - (NL) VERPLICHT GEBUIK VAN BESCHERMEND MASKE - (EL) ΥΠΟΧΡΕΩΣΗ ΗΝ ΦΟΡΑΤΕ ΠΡΟΤΕΡΑΤΕΥΤΙΚΗ ΜΑΣΚΑ - (RO) FOLOSIREA MĂȘTI DE PROTECȚIE OBLIGATORIE - (SV) OBLIGATORISKT ATT BÄRA SKYDDSMASK - (CS) POVINNĚ POUŽITÍ OCHRANĚNĚ ŠTÍTU - (HR-SR) OBAVEZNO KORISTENJE ZAŠTITNE MASKE - (PL) NAKAZ UŻYWANIA MASKI OCHRONNEJ - (FI) SUOJALAMKIN KÄYTTÖ PAKOLLISETA - (DA) PLIGT TIL AT ANVENDE BESKYTTELSESMASKE - (NO) FORPLIKTELSE Å BRUKE VERNEBRILLER - (SL) OBEVZNOST UPORABI ZAŠČITNE MASKE - (SK) POVINNĚ POUŽITIE OCHRANĚNĚ ŠTÍTU - (HU) VÉDŐMASZK HASZNÁLATA KÖTELEZŐ - (LT) PRIVALOMOS APSAUGOS PRIEMONĖS KLAUSOS ORGANAMS - (ET) KOHUSTUS KANDA KAITSEMASKI - (LV) PIENĀKUMS IZMANTOT AIZSARGMASKU - (BG) ЗАДЪЛЖИТЕЛНО ИЗПОЛЗВАНЕ НА ПРЕДПАЗНА ЗАВАРЪЧНА МАСКА - (TR) KORUYUCU MASKE TAKMAK ZORUNLUDUR - (AR) الالتزام باستخدام قناع واق</p>
	<p>(EN) WEARING EAR PROTECTORS IS COMPULSORY - (IT) OBBLIGO PROTEZIONE DELL'UDITO - (FR) PROTECTION DE L'OUÏE OBLIGATOIRE - (ES) OBLIGACIÓN DE PROTECCIÓN DEL OÍDO - (DE) DAS TRAGEN VON GEHÖRSCHUTZ IST PFLICHT - (RU) ОБЯЗАННОСТЬ ЗАЩИЩАТЬ СЛУХ - (PT) OBRIGATORIO PROTEGER O OUVIDO - (NL) VERPLICHTE OORBESCHERMING - (EL) ΥΠΟΧΡΕΩΣΗ ΠΡΟΣΤΑΣΙΑΣ ΑΚΟΗΣ - (RO) PROTECȚIA AUZULUI OBLIGATORIE - (SV) OBLIGATORISKT ATT SKYDDA HÖRSELN - (CS) POVINNOST OCHRANY SLUCHU - (HR-SR) OBAVEZNA ZAŠTITA SLUHA - (PL) NAKAZ OCHRONY SŁUCHU - (FI) KUULOSUOJAUUS PAKOLLISETA - (DA) PLIGT TIL AT ANVENDE HØREVERN - (NO) FORPLIKTELSE Å BRUKE HØRESEVERN - (SL) OBEVZNA UPORABA GLUŠNIKOV - (SK) POVINNĚ OCHRANA SLUCHU - (HU) HALLÁSVÉDELEM KÖTELEZŐ - (LT) PRIVALOMOS APSAUGOS PRIEMONĖS KLAUSOS ORGANAMS - (ET) KOHUSTUS KANDA KUULMISKAITSEVAHENEID - (LV) PIENĀKUMS AIZSARGĀT DZIRDĒS ORGĀNUS - (BG) ЗАДЪЛЖИТЕЛНО ДА СЕ НОСЯТ ПРЕДПАЗНИ СРЕДСТВА ЗА СЛУХА - (TR) KORUYUCU KULAKLIK KULLANMAK ZORUNLUDUR - (AR) الالتزام بحماية الأذن</p>
	<p>(EN) USERS OF VITAL ELECTRICAL AND ELECTRONIC APPARATUS MUST NEVER USE THE MACHINE - (IT) VIETATO L'USO DELLA MACCHINA AI PORTATORI DI APPARECCHIATURE ELETTRICHE ED ELETTRONICHE VITALI - (FR) L'UTILISATION DE LA MACHINE EST DÉCONSEILLÉE AUX PORTEURS D'APPAREILS ÉLECTRIQUES OU ÉLECTRONIQUES MÉDICAUX - (ES) PROHIBIDO EL USO DE LA MÁQUINA A LOS PORTADORES DE APARATOS ELÉCTRICOS Y ELÉCTRONICOS VITALES - (DE) TRÄGERN LEBENSERHALTENDER ELEKTRISCHER UND ELEKTRONISCHER GERÄTE IST DER GEBRAUCH DER MASCHINE UNTERSAGT - (RU) ИСПОЛЬЗОВАНИЕ УСТАНОВКИ ЗАПРЕЩЕНО ЛИЦАМ, СПЕЦЬУЗУЩИМ ЭЛЕКТРОННУЮ И ЭЛЕКТРОАППАРАТУРУ ОБЕСПЕЧЕНИЕ ЖИЗНЕДЕЯТЕЛЬНОСТИ - (PT) É PROIBIDO O USO DA MÁQUINA AOS PORTADORES DE APARELHAGENS ELÉCTRICAS E ELÉCTRONICAS VITAIS - (NL) HET GEBRUIK VAN DE MACHINE IS VERBODEN AAN DRAGERS VAN ELEKTRISCHE EN ELEKTRONISCHE VITALE APPARATUUR - (EL) ΑΠΑΓΟΡΕΥΕΤΑΙ Η ΧΡΗΣΗ ΤΟΥ ΜΗΧΑΝΗΜΑΤΟΣ ΣΕ ΑΤΟΜΑ ΠΟΥ ΦΕΡΟΥΝ ΗΛΕΚΤΡΙΚΕΣ ΚΑΙ ΗΛΕΚΤΡΟΝΙΚΕΣ ΣΥΣΤΕΜΕΣ ΖΩΤΙΚΗΣ ΣΗΜΑΣΙΑΣ - (RO) SE INTERZICE FOLOSIREA MAȘINII DE CĂTRE PERSOANELE PURTĂTOARE DE APARATE ELECTRICE ȘI ELECTRONICE VITALE - (SV) FÖRBJUDET FÖR ANVÄNDARE AV LIVSUPPEHÅLLANDE ELEKTRISKA ELLER ELEKTRONISKA APPARATER ATT ANVÄNDA DENNA MASKIN - (CS) ZÁKAZ POUŽITÍ STROJE NOSITELŮ ELEKTRICKÝCH A ELEKTRONICKÝCH ŽIVOTNĚ DŮLEŽITÝCH ZAŘÍZENÍ - (HR-SR) ZABRANJENO JE UPOTREBLJAVATI STROJ OSOBAMA KOJE IMAJU UGRADENE VITALNE ELEKTRICNE ILI ELEKTRONICKE UREĐAJE - (PL) ZABRONIENO JE UŻYWANIE URZĄDZENIA OSOBOM STOSUJĄCYM ELEKTRYCZNE I ELEKTRONICZNE URZĄDZENIA WSPOMAGAJĄCE FUNKCJE ŻYCIOWE - (FI) KONEEN KÄYTTÖKIELTO SÄHKÖISTEN JA ELEKTRONISTEN HENKILÖSUOJALAITTEIDEN KÄYTTÄMÄNÄ - (DA) DET ER FORBUDT FOR PERSONER, DER ANVENDER LIVSVIGTIGT ELEKTRISK OG ELEKTRONISK APPARATUR, AT ANVENDE MASKINEN - (NO) DET ER FORBUDT FOR PERSONER SOM BRUKER LIVSVIKTIGE ELEKTRISKE ELLER ELEKTRONISKE APPARATER Å BRUKE MASKINEN - (SL) PREPOVEDANA UPORABA STROJA ZA UPORABNIKE ŽIVLJENJSKO POMEMBNIH ELEKTRINIHN I ELEKTRONSKIH NAPRAV - (SK) ZÁKAZ POUŽÍVANIA STROJA OSOBÁM SO ŽIVOTNE DŮLEŽITÝMI ELEKTRICKÝMI A ELEKTRONICKÝMI ZARIADENIAM I - (HU) TILOS A GÉP HASZNÁLATA MINDAZOK SZÁMÁRA, AKIK SZERVEZETÉBEN ÉLETTENFARTÓ ELEKTROMOS VAGY ELEKTRONIKUS KÉSZÜLÉK EN BEÉPÍTVE - (LT) GRIEŽTAI DRAUŽIAMA SU JRANGA DIRBTI ASMENIMS, BESINAUDOJANTIEMS GYVYBISKAI SVARBIŠAI ELEKTRINIAMS AR ELEKTRONINIAMS PRIETAISIAIS - (ET) SEADET EI TOHI KASUTADA ISIKUD, KES KASUTAVAD MEDITSIINILISE ELEKTRI-JA ELEKTRONIKASEADEMID - (LV) ELEKTRISKO VAI ELEKTRONISKO MEDICĪNISKO IERĪČU LIETOJĀJEM IR AIZLIEGTS IZMANTOT MAŠĪNU - (BG) ЗАБРАНЕНО Е ПОЛЗВАНЕТО НА МАШИНАТА ОТ ЛИЦА, НОСИТЕЛИ НА ЕЛЕКТРИЧЕСКИ И ЕЛЕКТРОНИ И МЕДИЦИНСКИ УСТРОЙСТВА - (TR) HAYATI ELEKTRIK VE ELEKTRONIK SİHAZ KULLANILMAK İÇİN KULLANILMALIDIR - (AR) يحظر استخدام الآلة لحاملي الأجهزة الكهربائية والإلكترونية الحيوية</p>
	<p>(EN) PEOPLE WITH METAL PROSTHESES ARE NOT ALLOWED TO USE THE MACHINE - (IT) VIETATO L'USO DELLA MACCHINA AI PORTATORI DI PROTESI METALLICHE - (FR) UTILISATION INTERDITE DE LA MACHINE AUX PORTEURS DE PROTHÈSES MÉTALLIQUES - (ES) PROHIBIDO EL USO DE LA MÁQUINA A LOS PORTADORES DE PROTESIS METÁLICAS - (DE) TRÄGERN VON METALLPROTHESEN IST DER UMGANG MIT DER MASCHINE VERBOTEN - (RU) ИСПОЛЬЗОВАНИЕ МАШИНЫ ЗАПРЕЩАЕТСЯ ЛЮДЯМ, ИМЕЮЩИМ МЕТАЛЛИЧЕСКИЕ ПРОТЕЗЫ - (PT) PROIBIDO O USO DA MÁQUINA AOS PORTADORES DE PRÓTESES METÁLICAS - (NL) HET GEBRUIK VAN DE MACHINE IS VERBODEN AAN DE DRAGERS VAN METALEN PROTHESEN - (EL) ΑΠΑΓΟΡΕΥΕΤΑΙ Η ΧΡΗΣΗ ΤΗΣ ΜΗΧΑΝΗΣ ΣΕ ΑΤΟΜΑ ΠΟΥ ΦΕΡΟΥΝ ΜΕΤΑΛΛΙΚΕΣ ΠΡΟΘΗΚΕΣ - (RO) SE INTERZICE FOLOSIREA MAȘINII DE CĂTRE PERSOANELE PURTĂTOARE DE PROTEZE METALICE - (SV) FÖRBJUDET FÖR PERSONER SOM BÄR METALLPROTESER ATT ANVÄNDA MASKINEN - (CS) ZÁKAZ POUŽITÍ STROJE NOSITELŮM KOVOVÝCH PROTÉZ - (HR-SR) ZABRANJENA UPOTREBA STROJA OSOBAMA KOJE NOSE METALNE PROTEZE - (PL) ZAKAZ UŻYWANIA URZĄDZENIA OSOBOM STOSUJĄCYM PROTEZY METALOWE - (FI) KONEEN KÄYTTÖ KIELLETTY METALLIPROTEESIN KANTAJILTA - (DA) DET ER FORBUDT FOR PERSONER MED METALLPROTESER AT BENYTTJE MASKINEN - (NO) BRUK AV MASKINEN ER IKKE TILLATT FOR PERSONER MED METALLPROTESER - (SL) PREPOVEDANA UPORABA STROJA ZA NOSILCE KOVINSKIH PROTEZ - (SK) ZÁKAZ POUŽITIA STROJA OSOBÁM S KOVOVÝMI PROTEZAMI - (HU) TILOS A GÉP HASZNÁLATA FÉMPROTÉZIST VISELŐ SZEMÉLYEK SZÁMÁRA - (LT) SU SUVIRINIMO APARATU DRAUŽIAMA DIRBTI ASMENIMS, NAUDOJANTIEMS METALINIUS PROTEZUS - (ET) SEADET EI TOHI KASUTADA ISIKUD, KES KASUTAVAD METALLPROTEESE - (LV) CILVĒKIEM AR METĀLA PROTĒZĒM IR AIZLIEGTS LIETOT IERĪČI - (BG) ЗАБРАНЕНО Е УПОТРЕБАТА НА МАШИНАТА ОТ НОСИТЕЛИ НА МЕТАЛНИ ПРОТЕЗИ - (TR) METAL PROTEZLİ İNSANLAR MAKİNEYİ KULLANAMAZ - (AR) يحظر استخدام الآلة على مستخدمي أجهزة السمع المعدنية</p>
	<p>(EN) DO NOT WEAR OR CARRY METAL OBJECTS, WATCHES OR MAGNETISED CARDS - (IT) VIETATO INDOSSARE OGGETTI METALLICI, OROLOGI E SCHEDE MAGNETICHE - (FR) INTERDICTION DE PORTER DES OBJETS MÉTALLIQUES, MONTRES ET CARTES MAGNÉTIQUES - (ES) PROHIBIDO LLEVAR OBJETOS METÁLICOS, RELOJES, Y TARJETAS MAGNÉTICAS - (DE) DAS TRAGEN VON METALLOBJEKTEN, UHREN UND MAGNETKARTEN IST VERBOTEN - (RU) ЗАПРЕЩАЕТСЯ НОСИТЬ МЕТАЛЛИЧЕСКИЕ ПРЕДМЕТЫ, ЧАСЫ ИЛИ МАГНИТНЫЕ ПЛАТЫЮ - (PT) PROIBIDO VESTIR OBJECTOS METÁLICOS, RELÓGIOS E FICHAS MAGNÉTICAS - (NL) HET IS VERBODEN METALEN VOORWERPEN, UURWERKEN EN MAGNETISCHE FICHES TE DRAGEN - (EL) ΑΠΑΓΟΡΕΥΕΤΑΙ Η ΦΟΡΑΤΕ ΜΕΤΑΛΛΙΚΑ ΑΝΤΙΚΕΙΜΕΝΑ, ΡΟΛΟΓΙΑ ΚΑΙ ΜΑΓΝΗΤΙΚΕΣ ΠΛΑΚΕΤΕΣ - (RO) ESTE INTERZISĂ PURTAREA OBIECTELOR METALICE, A CEASURILOR ȘI A CARTELELOR MAGNETICE - (SV) FÖRBJUDET ATT BÄRA METALLFÖREMÅL, KLOCKOR OCH MAGNETKORT - (CS) ZÁKAZ NOSENÍ KOVOVÝCH PŘEDMĚTŮ, HODINEK A MAGNETICKÝCH KARET - (HR-SR) ZABRANJENO NOSENJE METALNIH PREDMETA, SAUTOVA I MAGNETSKIH KARTOVA - (PL) ZAKAZ NOSZENIA PRZEDMIOTÓW METALOWYCH, ZEGARÓW I KART MAGNETYCZNYCH - (FI) METALLISTEN ESINEIDEN, KELLOJEN JA MAGNEETIKORTTIEN MUKANA PITÄMINEN KIELLETTY - (DA) FORBUD MOD AT BÆRE METALGENSTANDE, URE OG MAGNETISKE KORT - (NO) FORBUDT Å HA PÅ SEG METALLFORMÅL, KLOCKER OG MAGNETISKE KORT - (SL) PREPOVEDANO NOSENJE KOVINSKIH PREDMETOV, UR IN MAGNETNIH KARTIC - (SK) ZÁKAZ NOSENIA KOVOVÝCH PREDMETOV, HODINIEK A MAGNETICKÝCH KARIET - (HU) TILOS FÉMTÁRGYAK, KARÓRÁK VISELETE ÉS MÁGNESES KÁRTYÁK MAGUKNÁL TARTÁSA - (LT) DRAUŽIAMA PRIEŠVĖTURĖ TI METALINIŲ DAIKTŲ, LAIKRODŽIŲ AR MAGNETINIŲ PLOKŠTELIŲ - (ET) KEELATUD ON KANDA METALLESEMID, KELLASID JA MAGNETKAARTE - (LV) IR AIZLIEGTS VILKT METĀLA PRIEKŠMETUS, PULKSTENUS UN NEMT LĪDZI MAGNĒTISKĀS KARTES - (BG) ЗАБРАНЕНО Е НОСЕНОТО НА МЕТАЛНИ ПРЕДМЕТИ, ЧАСОВНИЦИ И МАГНИТНИ СХЕМИ - (TR) METAL NESNELER, SAATLER YA DA MANYETİK KARTLARI KULLANMAYIN VEYA TAŞIMAYIN - (AR) يحظر استخدام أشياء معدنية، ساعات وطاقات مغنطة</p>
	<p>(EN) NOT TO BE USED BY UNAUTHORISED PERSONNEL - (IT) VIETATO L'USO ALLE PERSONE NON AUTORIZZATE - (FR) UTILISATION INTERDITE AU PERSONNEL NON AUTORISÉ - (ES) PROHIBIDO EL USO A PERSONAS NO AUTORIZADAS - (DE) DER GEBRAUCH DURCH UNBEFUGTE PERSONEN IST VERBOTEN - (RU) ИСПОЛЬЗОВАНИЕ ЗАПРЕЩАЕТСЯ ЛЮДЯМ, НЕ ИМЕЮЩИМ РАЗРЕШЕНИЯ - (PT) PROIBIDO O USO ÀS PESSOAS NÃO AUTORIZADAS - (NL) HET GEBRUIK IS VERBODEN AAN NIET GEAUTORISEERDE PERSONEN - (EL) ΑΠΑΓΟΡΕΥΣΗ ΧΡΗΣΗΣ ΣΕ ΜΗ ΕΠΙΤΡΕΠΜΕΝΑ ΑΤΟΜΑ - (RO) FOLOSIREA DE CĂTRE PERSOANELE NEAUTORIZATE ESTE INTERZISĂ - (SV) FÖRBJUDET FÖR ICKE AUKTORISERADE PERSONER ATT ANVÄNDA APPARATEN - (CS) ZÁKAZ POUŽITÍ NEPOVOLANÝM OSOBÁM - (HR-SR) ZABRANJENA UPOTREBA NEOVLASTENIM OSOBAMA - (PL) ZAKAZ UŻYWANIA OSOBOM NIEAUTORYZOWANYM - (FI) KÄYTTÖ KIELLETTY VALTUUTTAMATTOMILTA HENKILÖILTÄ - (DA) DET ER FORBUDT FOR UVEDKOMMENDE AT ANVENDE MASKINEN - (NO) BRUK ER IKKE TILLATT FOR UAUTORSERTE PERSONER - (SL) NEPOVOLANĀNEN OSOBAM UPORABA PREPOVEDANA - (SK) ZÁKAZ POUŽITIA NEPOVOLANÝM OSOBÁM - (HU) TILOS A HASZNÁLATA A FEL NEM JOGOSÍTOTT SZEMÉLYEK SZÁMÁRA - (LT) PAŠALINIAMS NAUDOTIS DRAUŽIAMA - (ET) SELLEKS VOLITAMATA ISIKUTEL ON SEADMĒ KASUTAMINE KEELATUD - (LV) NEPIĻNAROTĀM PERSONĀM IR AIZLIEGTS IZMANTOT APARĀTU - (BG) ЗАБРАНЕНО Е ПОЛЗВАНЕТО ОТ НЕУПЪЛНОМОЩНИ ЛИЦА - (TR) YETKİSİZ PERSONEL TARAFINDAN KULLANILAMAZ - (AR) يحظر الاستخدام من قبل الأشخاص الغير مصرح لهم</p>
	<p>(EN) Symbol indicating separation of electrical and electronic appliances for refuse collection. The user is not allowed to dispose of these appliances as solid, mixed urban refuse, and must do it through authorised refuse collection centres. - (IT) Simbolo che indica la raccolta separata delle apparecchiature elettriche ed elettroniche. L'utente ha l'obbligo di non smaltire questa apparecchiatura come rifiuto municipale solido misto, ma di rivolgersi ai centri di raccolta autorizzati. - (FR) Symbole indiquant la collecte différenciée des appareils électriques et électroniques. L'utilisateur ne peut éliminer ces appareils avec les déchets ménagers solides mixtes, mais doit s'adresser à un centre de collecte autorisé. - (ES) Símbolo que indica la recogida por separado de los aparatos eléctricos y electrónicos. El usuario tiene la obligación de no eliminar este aparato como desecho urbano sólido mixto, sino de dirigirse a los centros de recogida autorizados. - (DE) Symbol für die getrennte Erfassung elektrischer und elektronischer Geräte. Der Benutzer hat pflichtgemäß dafür zu sorgen, daß dieses Gerät nicht mit dem gemischt erfaßten festen Siedlungsabfall entsorgt wird. Stattdessen muß er eine der autorisierten Entsorgungsstellen einschalten. - (RU) Символ, указывающий на раздельный сбор электрического и электронного оборудования. Пользователь не имеет права выбрасывать данное оборудование в качестве смешанного твердого бытового отхода, а обязан обращаться в специализированные центры сбора отходов. - (PT) Símbolo que indica a reunião separada das aparelhagens eléctricas e electrónicas. O utente tem a obrigação de não eliminar esta aparelhagem como lixo municipal sólido misto, mas deve procurar os centros de recolha autorizados. - (NL) Symbool dat wijst op de gescheiden inzameling van elektrische en elektronische toestellen. De gebruiker is verplicht deze toestellen niet te lozen als gemengde vaste stadsafval, maar moet zich wenden tot de geautoriseerde ophaalcentra. - (EL) Σύμβολο που δείχνει τη διαφοροποιημένη συλλογή των ηλεκτρικών και ηλεκτρονικών συσκευών. Ο χρήστης υποχρεούται να μην διοχετεύει αυτή τη συσκευή σαν μικρό στερεό αστικό απόβλητο, αλλά να απευθύνεται σε ειδικευμένα κέντρα συλλογής. - (RO) Simbol ce indică depozitarea separată a aparatelor electrice și electronice. Utilizatorul este obligat să nu depoziteze acest aparat împreună cu deșeurile solide mixte ci să-l predea într-un centru de depozitare a deșeurilor autorizat. - (SV) Symbol som indikerar separat sopsortering av elektriska och elektroniska apparater. Användaren får inte sortera denna anordning tillsammans med blandat fast hushållsaffall, utan måste vända sig till en auktoriserad insamlingsstation. - (CS) Symbol označující separovaný sběr elektrických a elektronických zařízení. Uživatel je povinen nezklikovat toto zařízení jako pevný smíšený komunální odpad, ale obrátit se s ním na autorizované sběrný. - (HR-SR) Simbol koji označava posebno sakupljanje električnih i elektronskih aparata. Korisnik ne smije odložiti ovaj aparat kao običan kruti otpad, već se mora obratiti ovlaštenim centrima za sakupljanje. - (PL) Symbol, który oznacza sortowanie odpadów aparatury elektrycznej i elektronicznej. Zbrania się likwidowania aparatury jako mieszanek odpadów miejskich stałych, obowiązkiem użytkownika jest skierowanie się do autoryzowanych ośrodków gromadzących odpady. - (FI) Symboli, joka ilmoittaa sähkö- ja elektroniikkalaitteiden erillisen keräyksen. Käyttäjän velvollisuus on kääntäy valtuutettujen keräyspisteiden puoleen eikä välittää laitetta kunnallisena sekajätteenä. - (DA) Symbol, der står for særlig indsamling af elektriske og elektroniske apparater. Brugeren har pligt til ikke at bortkaste dette apparat som blandet, fast byaffald; der skal rettes henvendelse til et autoriseret indsamlingscenter. - (NO) Symbol som angir separat sortering av elektriske og elektroniske apparater. Brukeren må oppfylle forpliktelsen å ikke kaste bort dette apparat sammen med vanlige hjemmeføfall, uten henvende seg til autoriserte oppsamlingsentraler. - (SL) Simbol, ki označuje ločeno zbiranje električnih in elektronskih aparatov. Uporabnik tega aparata ne sme zavreči kot navaden gospodinjski trden odpadke, ampak se mora obrniti na pooblašene centre za zbiranje. - (SK) Symbol označujúci separovaný zber elektrických a elektronických zariadení. Užívateľ nesmie likvidovať toto zariadenie ako pevný zmiešaný komunálny odpad, ale je povinný doručiť ho do autorizovaného zberní. - (HU) Jelölés, mely az elektromos és elektronikus felszerelések szelektív hulladékgyűjtését jelzi. A felhasználó köteles ezt a felszerelést nem a városi törmelék hulladékalkalakkal együttesen gyűjteni, hanem erre engedélyvel rendelkező hulladékgyűjtő központhoz fordulni. - (LT) Simbolis, nurodantis atskirų nebenaudojamų elektrinių ir elektroninių prietaisų surinkimą. Vartotojas negali išmesti šių prietaisų kaip mišrių kietųjų komunalinių atliekų, bet privalo kreiptis į specializuotus atliekų surinkimo centrus. - (ET) Simbol, mis tähistab elektri- ja elektroonikaseadmete eraldi kogumist. Kasutaja kohustuseks on pöörduda volitatud kogumiskeskuste poole ja mitte käsitleda seda aparati kui munitsipaalne segajätet. - (LV) Simbols, kas norāda uz to, ka utilizācija ir jāveic atsevišķi no citām elektriskajām un elektroniskajām ierīcēm. Lietotāja pienākums ir neizmest šo aparāturu municipālajā atkritumu izgāztuvē, bet noģadāt to pilnvarotāj atkritumu savākšanas centrā. - (BG) Символ, който означава разделно събиране на електрическата и електронна апаратура. Ползвателят се задължава да не изхвърля тази апаратура като смесен твърд отпадък в контейнера за смет, поставени от общината, а трябва да се обърне към специализираните за това центрове. - (TR) Atık toplama için elektrikli ve elektronik cihazların ayrılması belirlen sembole. Kullanıcının bu cihazları katı, karışık kentsel atık olarak bertaraf etmesinde izin verilmez, bertaraf yetkili göp toplama merkezlerine yapılmalıdır. - (AR) رمز يشير إلى التجميع المنفصل للأجهزة الكهربائية والإلكترونية. يجب على المستخدم عدم التخلص من هذا الجهاز وكأنه نفايات البلدية الصلبة المختلطة، بل عليه التوجه إلى مراكز تجميع النفايات المصّح بها</p>

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CONTINUOUS WIRE WELDING MACHINE FOR MIG-MAG AND FLUX, TIG, MMA WELDING FOR PROFESSIONAL AND INDUSTRIAL USE.

Note: The term "welding machine" will be used in the text that follows.

1. GENERAL SAFETY CONSIDERATIONS FOR ARC WELDING

The operator should be properly trained to use the welding machine safely and should be informed about the risks related to arc welding procedures, the associated protection measures and emergency procedures.

(Please refer to the applicable standard "EN 60974-9: Arc welding equipment. Part 9: Installation and Use).



- Avoid direct contact with the welding circuit: the no-load voltage supplied by the welding machine can be dangerous under certain circumstances.
- When the welding cables are being connected or checks and repairs are carried out the welding machine should be switched off and disconnected from the power supply outlet.
- Switch off the welding machine and disconnect it from the power supply outlet before replacing consumable torch parts.
- Make the electrical connections and installation according to the safety rules and legislation in force.
- The welding machine should be connected only and exclusively to a power source with the neutral lead connected to earth.
- Make sure that the power supply plug is correctly connected to the earth protection outlet.
- Do not use the welding machine in damp or wet places and do not weld in the rain.
- Do not use cables with worn insulation or loose connections.



- Do not weld on containers or piping that contains or has contained flammable liquid or gaseous products.
- Do not operate on materials cleaned with chlorinated solvents or near such substances.
- Do not weld on containers under pressure.
- Remove all flammable materials (e.g. wood, paper, rags etc.) from the working area.
- Provide adequate ventilation or facilities for the removal of welding fumes near the arc; a systematic approach is needed in evaluating the exposure limits for the welding fumes, which will depend on their composition, concentration and the length of exposure itself.
- Keep the gas bottle (if used) away from heat sources, including direct sunlight.



- Use electric insulation that is suitable for the torch, the workpiece and any metal parts that may be placed on the ground and nearby (accessible). This can normally be done by wearing gloves, footwear, head protection and clothing that are suitable for the purpose and by using insulating boards or mats.
- Always protect your eyes with the relative filters, which must comply with UNI EN 169 or UNI EN 379, mounted on masks or use helmets that comply with UNI EN 175. Use the relative fire-resistant clothing (compliant with UNI EN 11611) and welding gloves (compliant with UNI EN 12477) without exposing the skin to the ultraviolet and infrared rays produced by the arc; the protection must extend to other people who are near the arc by way of screens or non-reflective sheets.
- Noise: If the daily personal noise exposure (LEPd) is equal to or higher than 85 dB(A)

because of particularly intensive welding operations, suitable personal protective means must be used (Tab. 1).



ELECTRIC AND MAGNETIC FIELDS MAY BE DANGEROUS

Electric current flowing through any conductor causes localized electric and magnetic fields (EMF). Welding current creates an EMF field around welding and welding equipment.

EMF fields may interfere with some medical implants (e.g. pacemakers, respiratory equipment, metallic prostheses etc.).

Protective measures for persons wearing medical implants have to be taken.

For example, access restrictions for passers-by or individual risk assessment for welders.

This welding machine complies with technical product standards for exclusive use in an industrial environment for occupational use. It does not assure compliance with the restrictions for use by layman.

All operators should follow the rules listed herebelow, in order to minimize exposure to EMF fields from the welding circuit:

- route the welding cables together. Secure them with tape when possible;
- place your trunk and head as far away as possible from the welding circuit;
- never coil welding cables around metal objects or your body;
- do not place your body between welding cables;
- keep welding cables on the same side of your body;
- connect the work clamp to the work piece as close as possible to the area being welded;
- do not work next to welding power sources;
- all operators should keep the required minimum distances as given in the EMF data sheet;
- distance from the EMF source to a point beyond which the exposure is less than 20% of the lowest permissible value: $d = 15 \text{ cm}$.



- Class A equipment:

This welding machine conforms to technical product standards for exclusive use in an industrial environment and for professional purposes. It does not assure compliance with electromagnetic compatibility in domestic dwellings and in premises directly connected to a low-voltage power supply system feeding buildings for domestic use.



EXTRA PRECAUTIONS

- WELDING OPERATIONS:

- In environments with increased risk of electric shock;
- In confined spaces;
- In the presence of flammable or explosive materials; MUST BE evaluated in advance by an "Expert supervisor" and must always be carried out in the presence of other people trained to intervene in emergencies. All protective technical measures MUST be taken as provided in 7.10; A.8; A.10 of the applicable standard EN 60974-9: Arc welding equipment. Part 9: Installation and Use".
- Welding MUST NOT be allowed if the welding machine or wire feeder is supported by the operator (e.g. using belts).
- The operator MUST NOT BE ALLOWED to weld in raised positions unless safety

platforms are used.

- **VOLTAGE BETWEEN ELECTRODE HOLDERS OR TORCHES:** working with more than one welding machine on a single piece or on pieces that are connected electrically may generate a dangerous accumulation of no-load voltage between two different electrode holders or torches, the value of which may reach double the allowed limit. An expert coordinator must be designated to measuring the apparatus to determine if any risks subsist and suitable protection measures can be adopted, as foreseen by section 7.9 of the applicable standard "EN 60974-9: Arc welding equipment. Part 9: Installation and Use".



RESIDUAL RISKS

- **OVERTURNING:** position the welding machine on a horizontal surface that is able to support the weight: otherwise (e.g. inclined or uneven floors etc.) there is danger of overturning.
- **IMPROPER USE:** it is hazardous to use the welding machine for any work other than that for which it was designed (e.g. de-icing mains water pipes).
- **IMPROPER USE:** the use of the welding machine by more than one operator at the same time may be dangerous.
- **MOVING THE WELDING MACHINE:** Always secure the gas bottle, taking suitable precautions so that it cannot fall accidentally (if used).
- Do not use the handle to hang the welding machine.



The safety guards and moving parts of the covering of the welding machine and of the wire feeder should be in their proper positions before connecting the welding machine to the power supply.



WARNING! Any manual operation carried out on the moving parts of the wire feeder, for example:

- Replacing rollers and/or the wire guide;
- Inserting wire in the rollers;
- Loading the wire reel;
- Cleaning the rollers, the gears and the area underneath them;
- Lubricating the gears.

SHOULD BE CARRIED OUT WITH THE WELDING MACHINE SWITCHED OFF AND DISCONNECTED FROM THE POWER SUPPLY OUTLET.

2. INTRODUCTION AND GENERAL DESCRIPTION

This welding machine is a source of current for arc welding, made specifically for MAG welding carbon steel or weak alloys with CO₂ protective gas or Argon/CO₂ mixes, using tubular full or core electrode wires.

It is also ideal for MIG welding stainless steel with Argon gas containing + 1-2% oxygen and aluminium and CuSi3, CuAl8 (brazing) with Argon gas, using electrode wires that are suitable for the workpiece to be welded.

Suitable core wires can be used without Flux protection gas, adapting torch polarity according to the indications of the wire producer (versions 180A and 200A only).

It is particularly suitable for light metalwork fabrication and in body shops, for welding galvanized plates, high stress stainless steel and aluminium. SYNERGIC operation ensures fast and easy welding parameter setting, always guaranteeing high arc control and welding quality (OneTouch Technology).

The welding machine, where available (see Tab. 1), can be used for TIG welding in direct current (DC), with arc striking upon contact (LIFT ARC mode). It welds all types of steel (carbon, low- and high-alloy) and heavy metals (copper, nickel, titanium and their alloys) with a gas shield of pure (99.9%) Ar or, for special uses, with an Argon/Helium mix. It can also be used for MMA electrode welding in direct current (DC) using coated electrodes (rutile, acid, basic).

2.1 MAIN CHARACTERISTICS

MIG-MAG

- Synergic (automatic) or manual operation;
- Pre-set synergic curves;
- Wire speed, welding voltage and welding current shown on an LCD screen;
- 2T, 4T and spot operation selection;
- Adjustments: wire up slope, electronic reactance, wire burn-back time, post gas;
- Polarity change for GAS MIG-MAG/BRAZING welding or NO GAS/FLUX (versions 180A and 200A only).
- Setting the metric or UK system.

TIG (see table 1)

- Start LIFT;
- Wire speed and welding current shown on an LCD screen.

MMA (see table 1)

- Arc force adjustment, hot start.
- VRD device.
- Anti-stick protection.
- Indication of recommended electrode diameter based on welding current;
- Wire speed and welding current shown on an LCD screen.

PROTECTION

- Thermostatic safeguard;
- Protection against accidental short-circuits caused by contact between torch and earth;
- Protection against irregular voltage (power supply voltage too high or too low);
- Anti-stick (MMA).

2.2 STANDARD ACCESSORIES

- Torch;
- Return cable complete with earth clamp;
- Torch holder support (where available).

2.3 OPTIONAL ACCESSORIES

- Argon bottle adapter;
- Trolley (versions 180A and 200A only);

- Self darkening helmet;
- MIG MAG welding kit;
- MMA welding kit;
- TIG welding kit.

3. TECHNICAL DATA

3.1 DATA PLATE

The most important data regarding use and performance of the welding machine are summarised on the rating plate and have the following meaning:

Fig. A

- 1- EUROPEAN standard of reference, for safety and construction of arc welding machines.
- 2- manufacturer's name and address.
- 3- product model.
- 4- Symbol for internal structure of the welding machine.
- 5- Symbol for welding procedure provided.
- 6- Symbol S: indicates that welding operations may be carried out in environments with heightened risk of electric shock (e.g. very close to large metallic volumes).
- 7- Symbol for power supply line:
 - 1~ : single phase alternating voltage;
 - 3~ : 3-phase alternating voltage.
- 8- Protection rating of the covering.
- 9- Technical specifications for power supply line:
 - U_0 : Alternating voltage and power supply frequency of welding machine (allowed limit $\pm 10\%$).
 - I_{1max} : Maximum current absorbed by the line.
 - I_{eff} : effective current supplied.
- 10- Performance of the welding circuit:
 - U_0 : maximum no-load voltage (open welding circuit).
 - I_p/U_p : current and corresponding normalised voltage that the welding machine can supply during welding.
 - X : Duty cycle: indicates the time for which the welding machine can supply the corresponding current (same column). It is expressed as %, based on a 10 min. cycle (e.g. 60% = 6 minutes working, 4 minutes pause, and so on).
If the usage factors (on the plate, referring to a 40°C environment) are exceeded, the thermal safeguard will trigger (the welding machine will remain in standby until its temperature returns within the allowed limits).
 - A/V-A/V : shows the range of adjustment for the welding current (minimum maximum) at the corresponding arc voltage.
- 11- Manufacturer's serial number for welding machine identification (indispensable for technical assistance, requesting spare parts, discovering product origin).
- 12- : Size of delayed action fuses to be used to protect the power line.
- 13- Symbols referring to safety regulations, whose meaning is given in chapter 1 "General safety considerations for arc welding".

Note: The data plate shown above is an example to give the meaning of the symbols and numbers; the exact values of technical data for the welding machine in your possession must be checked directly on the data plate of the welding machine itself.

3.2 OTHER TECHNICAL DATA

- **WELDING MACHINE:** see table 1 (TAB. 1)
 - **MIG TORCH:** see table 2 (TAB. 2)
 - **TIG TORCH:** see table 3 (TAB. 3)
 - **ELECTRODE-HOLDER CLAMP:** see table 4 (TAB. 4)
- The weight of the welding machine is given in table 1 (TAB. 1).

4. WELDING MACHINE DESCRIPTION

4.1 CONTROL, ADJUSTMENT AND CONNECTING DEVICES.

4.1.1 WELDING MACHINE (Fig. B, B1, B2, B3)

At the front:

- 1- Control panel.
- 2- Welding cable and torch.
- 3- Earth return cable and clamp.
- 4- Torch coupling.
- 5- Positive (+) fast coupling for connecting the welding cable.
- 6- Negative (-) fast coupling for connecting the welding cable.
- 7- Fast coupling plug connected to the torch coupling.
- 8- Touch coupling (T2).
- 9- SPOOL GUN torch coupling.
- 10- SPOOL GUN control cable connector.
- 11- Welding cable and torch (T2).
- 12- SPOOL GUN (optional).

At the back:

- 13- Main ON/OFF switch.
- 14- Hose connector for protective gas.
- 15- Power cable.
- 16- Hose connector for torch T2 protective gas.
- 17- Hose connector for SPOOL GUN torch protective gas.

On the reel area (where available):

- 18- Positive clamp (+).
- 19- Negative clamp (-).

NB: Polarity inversion for FLUX welding (no gas).

4.1.2 WELDING MACHINE CONTROL PANEL (Fig. C)

- 1- selection, if pressed, of MIG-MAG welding (SYNERGIC or MANUAL), TIG or MMA

SYNERGIC MIG-MAG:

- Adjustment of welding power.

MANUAL MIG-MAG:

- Adjustment of wire feed speed.

TIG (where available):

- Adjustment of welding current.

MMA (where available):

- Adjustment of welding current.

- 2- If pressed it allows access to preset machine programs.

SYNERGIC MIG-MAG:

- Adjustment of the welding seam (arc length)

MANUAL MIG-MAG:

- Adjustment of the welding seam (welding voltage)

TIG:

- Not enabled.

MMA:

- Not enabled
- 3- LCD display
- 4- selection, if pressed of the SPOOL GUN
- 5- LED torch setting indicator T1, T2 and SPOOL GUN

5. INSTALLATION



ATTENTION! THE WELDING MACHINE MUST BE TURNED OFF AND DISCONNECTED FROM THE MAINS BEFORE COMMENCING ANY INSTALLATION AND POWER CONNECTION OPERATIONS.

THE ELECTRICAL CONNECTIONS MUST ONLY BE CARRIED OUT BY EXPERT OR QUALIFIED TECHNICIANS.

Fig. D (version 180A with wheels)

Fig. D1 (version 270A)

Fig. D2, D3 (double torch version)

Unpack the welding machine and assemble the separate parts included in the package.

Assembling the clamp-return cable Fig. E

Assembling the welding cable electrode-holder clamp FIG. F

Assembling the torch holder hook (where available) FIG. G

5.1 POSITIONING THE WELDING MACHINE



Choose the place where the welding machine is to be installed so that there are no obstructions to the cooling air inlets and outlets; at the same time make sure that conductive dust, corrosive vapours, humidity etc. cannot be drawn into the machine.

Leave at least 250 mm of free space all around the welding machine.



WARNING! Position the welding machine on a level surface with sufficient load-bearing capacity, so that it cannot be tipped over or shift dangerously.

5.2 CONNECTION TO THE MAIN POWER SUPPLY

- Before making any electrical connection, check the rating plate data on the welding machine to make sure they correspond to the voltage and frequency of the available power supply where the machine is to be installed.
- The welding machine must be connected only and exclusively to a power supply with the neutral conductor connected to earth.
- To guarantee protection against indirect contact use the following types of residual current devices:
 - Type A () for single-phase machines.
 - Type B () for 3-phase machines.
- In order to satisfy the requirements of the EN 61000-3-11 (Flicker) standard we recommend connecting the welding machine to the interface points of the main power supply that have an impedance of less than $Z_{max} = 0.24$ ohm.
- The IEC/EN 61000-3-12 Standard does not apply to the welding machine.
- If the welding machine is connected to an electrical grid, the installer or user must make sure that the machine can indeed be connected (if necessary, consult the company that manages the electrical grid).

5.2.1 Plug and outlet

(1~)

Connect the power supply plug to a mains socket fitted with fuses or an automatic circuit-breaker; the corresponding earth terminal should be connected to the (yellow-green) earth conductor of the power supply.

(3~)

Connect a normalised plug (3P + PE) - having sufficient capacity- to the power cable and prepare a mains outlet fitted with fuses or an automatic circuit-breaker; the special earth terminal should be connected to the earth conductor (yellow-green) of the power supply line.

Table (TAB. 1) shows the recommended delayed fuse sizes in amps, chosen according to the max. nominal current supplied by the welding machine, and the nominal voltage of the main power supply.



WARNING! Non-compliance with the above regulation renders the manufacturer's safety system (class I) inefficient, with resulting serious risks to people (e.g. electric shock) and things (e.g. fire).

5.3 WELDING CIRCUIT CONNECTION

5.3.1 Recommendations



ATTENTION! BEFORE CARRYING OUT THE FOLLOWING CONNECTIONS, MAKE SURE THE WELDING MACHINE IS OFF AND DISCONNECTED FROM THE MAINS.

Table 1 (TAB. 1) gives the recommended values for welding cables (in mm²) according to the maximum energy supplied by the welding machine.

In addition:

- Fully rotate the welding cable connectors in the quick couplings (if present), to guarantee perfect electric contact; if this is not the case the connectors will overheat with consequent fast deterioration and loss of efficiency.
- Use the shortest welding cables possible.
- Do not use metal structures that are not part of the workpiece to replace the welding current return cable; this can endanger safety and give unsatisfactory welding results.

5.3.2 WELDING CIRCUIT CONNECTIONS IN MIG-MAG MODE

5.3.2.1 Gas cylinder connection (if used)

- Loadable gas cylinder on the support surface of the trolley: max 30kg (where available).
- Screw the pressure reducer (*) onto the cylinder gas valve, inserting the specific reduction supplied as an accessory, when Argon gas or an Argon/CO₂ mix is used.
- Connect the input hose of the gas reducer and tighten with the strip.
- Loosen the adjustment ring nut of the pressure reducer before opening the cylinder valve.
- (*) Accessory to purchase separately if not supplied with the product.

5.3.2.2 Connecting the welding current return cable

Connect the cable to the piece to be welded or the metal bench on which the workpiece is placed, as close as possible to the joint being worked.

5.3.2.3 Torch

Prepare the torch to receive the wire for the first time, removing the nozzle and the contact pipe, to make exiting easier.

5.3.2.4 Internal polarity change (where available)

Fig. B

- Open the reel area door.
- MIG/MAG welding (gas):
 - Connect the torch cable to the red clamp (+) (Fig. B-18)
 - Connect the clamp return cable to the negative fast coupling (-) (Fig. B-19)
- FLUX welding (no gas):
 - Connect the torch cable to the black clamp (-) (Fig. B-19).
 - Connect the clamp return cable to the positive fast coupling (+) (Fig. B-18).
- Close the reel area door.

5.3.2.5 External polarity change (where available)

Fig. B

- MIG/MAG welding (gas):
 - Connect the torch cable to the torch coupling (Fig. B-4).
 - Connect the fast coupling plug (Fig. B-7) to the positive coupling plug (+) (Fig. B-5).
 - Connect the clamp return cable to the negative fast coupling (-) (Fig. B-6).
- FLUX welding (no gas):
 - Connect the torch cable to the torch coupling (Fig. B-4).
 - Connect the fast coupling plug (Fig. B-7) to the negative coupling (-) (Fig. B-6).
 - Connect the clamp return cable to the positive fast coupling (+) (Fig. B-5).

5.3.3 WELDING CIRCUIT CONNECTION IN TIG MODE

5.3.3.1 Connecting the gas bottle

- Screw the pressure reducer onto the gas bottle valve, placing the relative reduction supplied as an accessory between them;
- Connect the gas input hose to the pressure reducing valve and tighten the supplied strip.
- Loosen the adjustment ring nut of the pressure reducing valve before opening the gas bottle valve.
- Open the gas bottle and adjust the quantity of gas (l/min.) according to the recommended usage data, see table (TAB. 5); the gas flow can be adjusted while welding, always using the ring nut of the pressure reducer. Check the seal of the hoses and connections.



ATTENTION! Always close the gas bottle valve when you have finished working.

5.3.3.2 Connecting the welding current return cable

- Connect the cable to the piece to be welded or the metal bench on which the workpiece is placed, as close as possible to the joint being worked. Connect this cable to the clamp with the symbol (+) (Fig. B-5).

5.3.3.3 Torch

- Insert the current cable in the specific fast clamp (-) (Fig. B-6). Connect the gas hose of the torch to the cylinder.

5.3.4 WELDING CIRCUIT CONNECTIONS IN MMA MODE

Almost all the coated electrodes should be connected to the positive pole (+) of the generator; an exception is the negative pole (-) for electrodes with acid coating.

5.3.4.1 Connection of the electrode-holder clamp welding cable

Bring a special clamp on the clamp used to tighten the exposed part of the electrode. Connect this cable to the clamp with the symbol (+) (Fig. B-5).

5.3.4.2 Connecting the welding current return cable

- Connect the cable to the piece to be welded or the metal bench on which the workpiece is placed, as close as possible to the joint being worked. Connect this cable to the clamp with the symbol (-) (Fig. B-6).

5.4 LOADING THE WIRE SPOOL (Fig. H, H1, H2)



WARNING! BEFORE STARTING THE OPERATIONS TO LOAD THE WIRE MAKE SURE THE WELDING MACHINE IS SWITCHED OFF AND DISCONNECTED FROM THE MAIN POWER SUPPLY OUTLET.

MAKE SURE THAT THE WIRE FEEDER ROLLERS, THE WIRE GUIDE HOSE AND THE CONTACT TIP OF THE TORCH MATCH THE DIAMETER AND TYPE OF WIRE TO BE USED AND MAKE SURE THAT THESE ARE FITTED CORRECTLY. WHEN INSERTING AND THREADING THE WIRE DO NOT WEAR PROTECTIVE GLOVES.

- Open the reel compartment door.
- Position the wire reel on the spindle, holding the end of the wire upwards; make sure the tab for pulling the spindle is correctly seated in its hole (1a).
- Release the pressure counter-roller(s) and move them away from the lower roller(s) (2a);
- Make sure that the towing roller(s) is suited to the wire used (2b).
- Free the end of the wire and remove the distorted end with a clean cut and no burr; turn the reel anti-clockwise and thread the end of the wire into the wire-guide infeed, pushing it 50-100mm into the wire guide of the torch fitting (2c).
- Re-position the counter-roller(s), adjusting the pressure to an intermediate value, and make sure that the wire is correctly positioned in the groove of the lower roller(s) (3)
- Remove the nozzle and contact tip (4a).
- Insert the welding machine plug in the power supply outlet, switch on the welding machine, press the torch button and wait for the end of the wire to pass through the whole of the wire guide hose and protrude by 10-15 cm from the front part of the torch, release the button.



WARNING! During these operations the wire is live and subject to mechanical stress; therefore if adequate precautions are not taken the wire could cause hazardous electric shock, injury and striking of electric arcs:

- Do not direct the mouthpiece of the torch towards parts of the body.
- Keep the torch away from the gas bottle.
- Re-fit the contact tip and the nozzle onto the torch (4b).
- Check that wire feed is regular; set the roller and spindle braking pressure to the minimum possible values making sure that the wire does not slide in the groove and when feed is halted the loops of wire are not loosened by excessive reel inertia.
- Cut the end of the wire so that 10-15 mm protrude from the nozzle.
- Close the reel compartment door.

5.5 LOADING THE WIRE SPOOL ONTO THE SPOOL GUN (Fig. I)



ATTENTION! BEFORE LOADING THE WIRE, MAKE SURE THE WELDING MACHINE IS OFF AND DISCONNECTED FROM THE MAINS.

MAKE SURE THE WIRE FEEDERS, THE WIRE GUIDE HOSE AND THE TORCH CONTACT PIPE CORRESPOND WITH THE DIAMETER AND NATURE OF THE WIRE TO BE USED AND THAT THEY ARE CORRECTLY MOUNTED. DO NOT WEAR PROTECTIVE GLOVES WHEN THREADING THE

WIRE.

- Remove the cover by unscrewing the relative screw (1).
- Position the wire coil onto the reel.
- Release the pressure counter-roller and distance it from the lower roller (2).
- Free the wire end, cut off the misshaped end by cutting it cleanly and without leaving a burr; rotate the reel counter-clockwise and position the wire end into the wire feed input, pushing it by 50-100 mm into the torch swan neck (2).
- Reposition the counter-roller, adjusting the pressure at an intermediate value, make sure the wire is positioned correctly in the hollow of the lower roller (3).
- Gently stop the reel, using the relative adjustment screw.
- With the **SPOOL GUN** connected, insert the welding machine plug into the mains socket, switch on the welding machine, press the spool gun push-button and wait for the end of the wire which is running along the whole wire feed casing, to exit by 100-50mm from the front of the torch, then release the torch push-button.

6. MIG-MAG WELDING: PROCESS DESCRIPTION

6.1 SHORT ARC

Wire welding and detachment of the drop takes place via subsequent short-circuits of the wire tip and weld pool (up to 200 times per second). The stick-out length of the wire is normally between 5 and 12mm.

Carbon, low-alloy steel

- Usable wire diameter: 0.6 - 0.8 - 1.0 mm (1.2 mm version 270A only)
- Usable gas: CO₂ or Ar/CO₂ mixtures

Stainless steel

- Usable wire diameter: 0.8 - 1.0 mm (1.2 mm version 270A only)
- Usable gas: Ar/O₂ or Ar/CO₂ mixtures (1-2%)

Aluminium and CuSi/CuAl

- Usable wire diameter: 0.8 - 1.0 mm (1.2 mm version 270A only)
- Usable gas: Ar

Core wire



- Usable wire diameter: 0.8 - 0.9 - 1.2mm
- Usable gas: None

6.2 PROTECTION GAS

The protective gas flow rate must be 8-14 l/min.




7. MIG-MAG OPERATION MODES

7.1 SYNERGIC operating mode **SYN**

Defined by the user, the parameters such as material, wire diameter , gas type , the welding machine is automatically set in optimal operating conditions established by the various synergic curves saved. The user only has to select the material thickness to begin welding (OneTouch Technology).

7.1.1 LCD display in SYNERGIC mode (Fig. L)

NB: All the values which be displayed and selected depend on the type of set welding.

- 1- Synergic operating mode **SYN**;
- 2- Material to weld. Types available: Fe (steel), Ss (stainless steel), AlMg, AlSi₁ (aluminium), CuSi/CuAl (zinc-plated sheet metal - brazing), Flux (core wire - NO GAS welding);
- 3- Diameter of wire to use;
- 4- Recommended safety gas;
- 5- Thickness of material to weld;
- 6- Graphic indicator of thickness of material;
- 7- Graphic indicator of welding seam shape;
- 8- Welding values:
 -  wire feed speed;
 -  welding voltage;
 -  welding current.
- 9- ATC (Advanced Thermal Control).


7.1.2 Parameters setting

Pressing button C-2 for at least 1 second, you can access the preset programs on the machine.

Turning the knob C-2 you can slide all the programs (PRG 01, 02, etc.). Select the program chosen by pressing and releasing the same knob. The welding machine sets itself automatically in the best operation conditions established by the different synergy curves that are saved. The user only has to select the material thickness using knob C-1 to begin welding. The welding voltage and current is shown on the display only during welding.


7.1.3 Adjustment of the welding seam shape

Adjustment of the shape of the seam takes place using the knob (Fig. C-2) that regulates the arc length thereby establishing the greater or lesser welding temperature input.


The settings scale varies from -10 ÷ 0 ÷ +10; in most cases, the knob in the intermediate position (0, ) has an optimal base setting (the value is shown on the LCD display on the

left of the graphic symbol of the welding seam and disappears after a set time).

Using the knob (Fig. C-2), the graphic indication on the display of the shape of the welding changes showing a more convex, flat or concave result.

Convex shape.  It means there is a low thermal load, therefore welding is "cold", with

little penetration; therefore, turning the knob clockwise you obtain more thermal load with the effect of welding with greater melting.

Concave shape.  It means there is a high thermal load, therefore welding is too "hot",

with excessive penetration; then, turn the knob anti-clockwise to obtain greater melting.

7.1.4 ATC Mode (Advanced Thermal Control)

This is enabled automatically when the thickness selected is less or equal to 1.5mm.

Description: the particular instantaneous control of the welding arc and the ultra rapid correcting of parameters minimize current spikes, something that is characteristic of Short Arc transfer procedures, to the advantage of a low thermal load on the piece to be welded. The result, on the one hand, is reduced deformation of materials and, on the other, a fluid and accurate transfer of the weld material and the creation of a welding seam that is easy to model.

Advantages:

- easy welding of thin materials;
- decreased deformation of material;
- stable arc even when working with low currents;
- rapid and accurate spot welding;
- easier coupling of spaced sheets.

7.1.5 Using the spool gun (where available)

All the settings procedures (material, wire diameter, gas type) are described above. The spool gun knob (Fig. I-5) adjusts the wire speed (and the welding current and thickness simultaneously). The user only has to adjust the arc voltage via the display (if necessary).

7.1.6 Advanced parameter setting: MENU 1 (Fig. M)

Press the knobs (Fig. C1) and (Fig. C2) for at least 1 second and release to access the advanced parameter settings menu. When MENU 1 appears, again press. Each parameter can be set to the desired value by rotating/pressing the knob (Fig. C2) until you exit the menu.



Trailing wire ramp correction (Fig. M-1)

Use to correct the trailing wire starting ramp to prevent any initial accumulation in the welding seam. Settings from - 10 % to + 10 %. Factory value: 0 %



Electronic reactance correction (Fig. M-2)

A higher value determines a hotter welding bath. Settings from - 10 % (low reactance machines) to + 10 % (high reactance machines). Factory value: 0 %



Burn-back correction. (Fig. M-3)

Use to adjust the wire burn-back time when welding is stopped. Settings from - 10 % to + 10 %. Factory value: 0 %



Post gas. (Fig. M-4)

Use to adapt the protective gas outflow starting from when welding is stopped. Settings from 0 to 10 seconds. Factory value: 1 sec.



Wire speed correction (Fig. M-5)

It increases or decreases the wire feed speed according to the display. Adjustment from -3 to +3m/min. Factory value: 0 m/min.


7.2 MANUAL operating mode **MAN**


The user can customise all the welding parameters.

7.2.1 LCD display in MANUAL mode (Fig. N)

1- MANUAL operating mode **MAN**;

2- Welding values:

 wire feed speed;

 welding voltage;

 welding current.

7.2.2 Parameters setting

In manual mode, the wire feeding speed and the welding voltage are adjusted separately. The knob (Fig. C-1) adjusts the wire speed, the knob (Fig. C-2) adjusts the welding voltage (which determines the welding power and influences the seam shape). The welding current is shown on the display (Fig. N-2) only during welding.

7.2.3 Setting of spool gun parameters (where available)

In manual mode, the wire feeding speed and the welding voltage are adjusted separately. The spool gun knob (Fig. L-5) adjusts the wire speed, whilst the welding voltage is adjusted via the display.

7.2.4 Advanced parameter setting: MENU 1 (Fig. M)

Press the knobs (Fig. C1) and (Fig. C2) for at least 1 second and release to access the advanced parameter settings menu. When MENU 1 appears, again press. Each parameter can be set to the desired value by rotating/pressing the knob (Fig. C2) until you exit the menu.



Trailing wire ramp (Fig. M-1).

Use to adjust wire feed rate as welding starts, in order to optimise arc strike. Settings from 20 to 100 % (start in % of full capacity speed). Factory value: 50 %



Electronic reactance (Fig. M-2)

A higher value determines a hotter welding bath. Settings from 10 % (low reactance machines) to 100 % (high reactance machines). Factory value: 50 %



Burn-back. (Fig. M-3)

Use to adjust the wire burn-back time when welding is stopped. Settings from 0 to 1 sec. Factory value: 0.08 sec.



Post gas. (Fig. M-4)

Use to adapt the protective gas outflow starting from when welding is stopped. Settings from 0 to 10 seconds. Factory value: 1 sec.



Wire speed correction (Fig. M-5)

It increases or decreases the wire feed speed according to the display. Adjustment from -3 to +3m/min. Factory value: 0 m/min.

7.2.5 T1, T2 and SPOOL GUN torch settings (where available)

The T1, T2, SPOOL GUN torch settings can be edited in two different ways:

- press the button on the control panel (Fig. C-4) where the corresponding LED will come on;
- press and release, after at least one second, the button for the torch to be used until the corresponding LED comes on.

8. CONTROLLING THE TORCH PUSH-BUTTON

8.1 Setting the torch push-button control mode (Fig. O)

Both in manual and synergic mode to access the menu, simultaneously press the knobs (Fig. C1) and (Fig. C2) for at least 1 second and release them. Turn the knob (Fig. C2) until menu 2 appears. Confirm selection by pressing the knob again.

8.2 Torch push-button control mode

It is possible to set 3 different torch push-button control modes:



2T mode: welding begins when the torch push-button is pressed and ends when the push-button is released.



4T mode: welding begins when the torch push-button is pressed and released, and ends only when the torch push-button is pressed and released a second time. This mode is useful for long welding operations.



Spot welding mode: used for MIG/MAG spot welding with control of welding duration.

9. UNIT OF MEASUREMENT MENU (Fig. O)

Both in manual and synergic mode to access the menu, simultaneously press the knobs (Fig. C1) and (Fig. C2) for at least 1 second and release them. Turn the knob (Fig. C2) until menu 3 appears. Confirm selection by pressing the knob again. Now you can set the metric or imperial units of measurement. Pressing knob C-2 again, you return to manual (or synergic) mode.

10. INFO MENU (Fig. O)

Both in manual and synergic mode to access the menu, simultaneously press the knobs (Fig. C1) and (Fig. C2) for at least 1 second and release them. Turn the knob (Fig. C2) until menu 4 appears. Confirm selection by pressing the knob again; turning the knob C-2 you can obtain information on the software installed. Pressing knob C-2 again, you return to manual (or synergic) mode.

11. TIG DC WELDING: PROCESS DESCRIPTION

11.1 GENERAL PRINCIPLES

TIG DC welding is suitable for all types of low-alloy and high carbon steel, and heavy metals such as copper, nickel, titanium and their alloys (FIG. P). An electrode with 2% Cerium (grey band) is normally used for TIG DC welding with electrode at the (-) pole. The tungsten electrode must be axially sharpened using a grinding wheel, see FIG. Q; make sure the tip is perfectly concentric to prevent arc deviation. The electrode must be ground along its length. This operation must be repeated periodically according to the use and wear state of the electrode, or when the electrode itself has been accidentally contaminated, oxidised or used incorrectly. For the welding to be good, the exact diameter of the electrode must be used with the exact current, see table (TAB. 5). The electrode normally projects from the ceramic nozzle by 2-3 mm, but can reach 8 mm for welding edges.

The weld is created by the edges that melt. Filler metal is not needed when welding suitably prepared thin material (up to about 1 mm) (FIG. R). A greater thickness requires rods made from the same material as the basic material and with a suitable diameter, with edges that have been suitably prepared (FIG. S). For welding to be successful, the pieces must be carefully cleaned and free from oxide, grease, oil, solvent, etc.

11.2 PROCEDURE (LIFT STRIKE)

- Use the knob C-1 to adjust the welding current at the required value;
- Adjust the current during welding to the true thermal ratio that is required.
- Make sure the gas is flowing correctly.
- The arc ignites through contact, distancing the tungsten electrode from the workpiece. Igniting in this manner causes less electric-irradiated disturbances and reduces tungsten inclusions and electrode wear to a minimum.
- Place the tip of the electrode on the workpiece, pressing gently.
- Immediately lift the electrode by 2-3 mm to obtain the arc strike.
- The welding machine initially supplies reduced current. After a few seconds, the set welding current is issued.
- Quickly lift the electrode from the workpiece to interrupt welding.

11.3 LCD DISPLAY IN TIG MODE (Fig. C)

- TIG operation mode;



- Welding values;
- welding voltage;
- welding current.

12. MMA WELDING: PROCESS DESCRIPTION

12.1 GENERAL PRINCIPLES

- It is essential to follow the recommendations provided by the manufacturer on the electrode packaging which indicates the correct electrode polarity and relative rated current.
- Welding current is regulated to suit the diameter of the electrode being used and the type of soldering to be performed; an example of the currents used for the various electrode diameters can be seen below:

Ø Electrode (mm)	Welding current (A)	
	Min.	Max.
1.6	25	50
2.0	40	80
2.5	60	110
3.2	80	150
4.0	140	200
5.0	180	250
6.0	240	270

- One can see that for the same diameter electrode, high levels of current will be used for flat welding, whilst lower current levels will be used for vertical or overhead welding.
- The mechanical characteristics of the welded joint are determined by the intensity of the selected current and also other welding parameters such as the length of the arc, the operating speed and position, the diameter and quality of the electrodes (to ensure correct conservation, use special packaging or containers to store and protect the electrodes against humidity).



WARNING:

Instability of the arc due to the composition of the electrode can occur, depending on the brand, type and thickness of the electrode coatings.

12.2 Procedure

- Hold the mask IN FRONT OF THE FACE, then lightly scratch the electrode tip on the piece to be welded as if you were trying to strike a match; this is the correct way of striking the arc.
- **WARNING: DO NOT TAP** the electrode against the piece; this can damage the coating and make it difficult to strike the arc.
- As soon as the arc is struck, try to maintain a distance from the piece which is equivalent to the diameter of the electrode being used, and try to maintain this distance as constant as possible during the welding operations; remember that the angle of the electrode as it moves forwards should be about 20-30 degrees.
- At the end of the welding seam, move the electrode tip backwards slightly, above the crater, and fill it in; now quickly lift the electrode from the weld pool to extinguish the arc (Examples of welding seams - FIG. T).

12.3 LCD DISPLAY IN MMA MODE (Fig. C)

- MMA operation mode;



- Welding values;
- welding voltage;
- welding current;
- recommended electrode diameter.

Press the knobs (Fig. C1) and (Fig. C2) for at least 1 second and release to access the advanced parameter settings menu. Each parameter can be set to the desired value by rotating/pressing the knob (Fig. C2) until you exit the menu.

Hot : this is the initial "HOT START" overcurrent, the display shows the percentage increase as to the value of the selected welding current. Settings from 0 to 100%. Factory value: 50%.

Arc : this is the dynamic "ARC-FORCE" overcurrent, the display shows the percentage increase as to the value of the pre-selected welding current. This adjustment improves welding fluidity, prevents the electrode from adhering to the workpiece and makes it possible to use different types of electrodes. Settings from 0 to 100%. Factory value: 50%.

Urd : ON/OFF; this enables or disables the device that reduces the loadless output voltage (ON or OFF setting). Factory value: OFF. With the VRD enabled, operator safety increases when the welding machine is on but not in the welding mode.

13. RESET FACTORY SETTINGS

The welding machine can be taken back to the factory settings by keeping the two knobs (Fig.C-1) and (Fig.C-2) pressed during starting operation.

14. ALARM WARNINGS

Reset is automatic when the reason for alarm activation stops.

Alarm messages that can appear on the display:

- **ALARM 01** and " ": Welding primary thermal switch has tripped. Operations come to a halt until the machine has cooled down sufficiently.
- **ALARM 02** and " ": Welding secondary thermal switch has tripped. Operations come to a halt until the machine has cooled down sufficiently.
- **ALARM 03**: overvoltage switch has tripped. Check the power supply voltage.
- **ALARM 04**: undervoltage switch has tripped. Check the power supply voltage.
- **ALARM 10**: welding circuit overcurrent switch has tripped. Make sure the feeder speed and/or welding current are not too high.
- **ALARM 11**: torch and earthing short-circuit switch has tripped. Make sure the welding circuit has not short-circuited.
- **ALARM 13**: no internal communication switch has tripped. If the alarm continues, contact an authorised repair centre.
- **ALARM 18**: auxiliary voltage alarm switch has tripped. If the alarm continues, contact an authorised repair centre.

When the welding machine is switched off, the signal ALARM 04 may appear for a few seconds.

15. MAINTENANCE



WARNING! BEFORE CARRYING OUT MAINTENANCE OPERATIONS MAKE SURE THE WELDING MACHINE IS SWITCHED OFF AND DISCONNECTED FROM THE MAIN POWER SUPPLY.

15.1 ROUTINE MAINTENANCE:

ROUTINE MAINTENANCE OPERATIONS CAN BE CARRIED OUT BY THE OPERATOR.

15.1.1 Torch

- Do not put the torch or its cable on hot pieces; this would cause the insulating materials to melt, making the torch unusable after a very short time.
- Make regular checks on the gas pipe and connector seals.
- Accurately match collet and collet body with the selected electrode diameter in order to avoid overheating, bad gas diffusion and poor performance.
- At least once a day check the terminal parts of the torch for wear and make sure they are assembled correctly: nozzle, electrode, electrode-holder clamp, gas diffuser.
- Before using the welding machine, always check the terminal parts of the torch for wear and make sure they are assembled correctly: nozzle, electrode, electrode-holder clamp, gas diffuser.

15.1.2 Wire feeder

- Make frequent checks on the state of wear of the wire feeder rollers, regularly remove the metal dust deposited in the feeder area (rollers and wire-guide infeed and outfeed).

15.2 EXTRAORDINARY MAINTENANCE

EXTRAORDINARY MAINTENANCE MUST ONLY BE CARRIED OUT BY TECHNICIANS WHO ARE EXPERT OR QUALIFIED IN THE ELECTRIC-MECHANICAL FIELD, AND IN FULL RESPECT OF THE IEC/EN 60974-4 TECHNICAL DIRECTIVE.



WARNING! BEFORE REMOVING THE WELDING MACHINE PANELS AND WORKING INSIDE THE MACHINE MAKE SURE THE WELDING MACHINE IS SWITCHED OFF AND DISCONNECTED FROM THE MAIN POWER SUPPLY OUTLET.

If checks are made inside the welding machine while it is live, this may cause serious electric shock due to direct contact with live parts and/or injury due to direct contact with moving parts.

- Inspect the welding machine regularly, with a frequency depending on use and the dustiness of the environment, and remove the dust deposited on the transformer, reactance and rectifier using a jet of dry compressed air (max. 10 bar).
 - Do not direct the jet of compressed air on the electronic boards; these can be cleaned with a very soft brush or suitable solvents.
 - At the same time make sure the electrical connections are tight and check the wiring for damage to the insulation.
 - At the end of these operations re-assemble the panels of the welding machine and screw the fastening screws right down.
 - Never, ever carry out welding operations while the welding machine is open.
 - After having carried out maintenance or repairs, restore the connections and wiring as they were before, making sure they do not come into contact with moving parts or parts that can reach high temperatures. Tie all the wires as they were before, being careful to keep the high voltage connections of the primary transformer separate from the low voltage ones of the secondary transformer.
- Use all the original washers and screws when closing the casing.

16. TROUBLESHOOTING

IN CASE OF UNSATISFACTORY FUNCTIONING, BEFORE SERVICING MACHINE OR REQUESTING ASSISTANCE, CARRY OUT THE FOLLOWING CHECK:

- Check that when general switch is ON the relative lamp is ON. If this is not the case then the problem is located on the mains (cables, plugs, outlets, fuses, etc.)
- There is no alarm signalling intervention of the thermostat safeguard, over or undervoltage or short-circuit.
- Check that the nominal intermittance ratio is correct. In case there is a thermal protection interruption, wait for the machine to cool down, check that the fan is working properly.
- Check the mains voltage: if the value is too high or too low the welding machine will be stopped.
- Check that there is no short-circuit at the output of the machine: if this is the case eliminate the inconvenience.
- Check that all connections of the welding circuit are correct, particularly that the work clamp is well attached to the workpiece, with no interfering material or surface-coverings (ie. Paint).
- Protective gas must be of appropriate type and quantity.