

Marking methods

LASER ENGRAVING

SS-0001

Strengths

- High speed
- Sharp definition
- Marks metals and polymers
- No locking of weapon required during marking
- Easy marking of assembled firearms (no stress on components)

Weaknesses

- High cost
- Marks not recoverable if removed
- Special safety requirements (due to danger from laser)





Physical characteristics of marking

APPLIED TO AN EXPOSED SURFACE

Straight, legible, and complete



Offset and difficult to read (some characters incomplete)







Physical characteristics of marking

CONSPICUOUS WITHOUT TECHNICAL AID OR TOOLS









Physical characteristics of marking

EASILY RECOGNIZABLE, READABLE

Adequate

(manufacturer code, date, and serial number)



Inadequate

(numbers only, no date, and no recognizable factory code or symbol)







Marking at the time of manufacture

REQUIRED MARKINGS



- 1. Name of manufacturer
 - 2. Country of manufacture
 - 3. Serial number







Marking at the time of manufacture

ALTERNATIVE REQUIRED MARKINGS





Unique user-friendly marking with simple geometric symbols in combination with a numeric and/or alphanumeric code permitting ready identification of the country of manufacture by all States.







Marking at the time of manufacture

ADDITIONAL ENCOURAGED MARKS



- 1. Year of manufacture
- 2. Weapon type/model
- 3. Calibre







Marking at the time of import

MARKING ELEMENTS



- Country of import
- Year of import (where possible)
- Unique identification number (if not already present)

Note: These requirements need not be applied to temporary imports of SALW for verifiable, lawful purposes, nor for the permanent import of museum artefacts.







Marking upon transfer from government stocks to permanent civilian use

MARKING REQUIREMENT

Appropriate marking permitting identification of the country from whose stocks the transfer of the small arm or light weapon is made.







Marking SALW in possession of government armed and security forces

MARKING REQUIREMENT



Appropriate unique marking permitting identification of SALW held or used by government armed and security forces.





Marking of illicit SALW found on national territory

MARKING REQUIREMENT

Uniquely mark and record (or destroy) illicit SALW as soon as possible,



Beforehand, ensure that illicit SALW are stored securely.

For more information see 'Small Arms Survey Physical Security and Stockpile Management (PSSM) Best Practice Cards'.







Measures to prevent the removal or alteration of markings

In order to foil or deter attempts to remove or alter weapon markings, States may consider the following options:



- Apply markings at the appropriate depth according to the material and the method used
 - Mark serial numbers on metal components, preferably using stamping techniques
- Use covert markings whenever possible







Placement of markings

REQUIRED

'A unique marking should be applied to an essential or structural component of the weapon [...] such as the frame and/or receiver.' (ITI, para. 10)

Note: in the case of split receivers, the upper receiver should be marked.

ADDITIONAL MARKINGS

Marks applied to other parts of the weapon, such as the barrel and/or slide or cylinder.







The three pillars of tracing

1. MARKING

Unique marking to permit ready identification of weapons. (ITI, paras. 7-10)

2. RECORD-KEEPING

Accurate and comprehensive records to permit reconstruction of the transfer history of marked weapons. (ITI, paras. 11-13)

3. COOPERATION IN TRACING

Applying agreed rules, States send and respond to tracing requests—i.e. sharing of records. (ITI, paras. 14-23)

These three pillars are mutually reinforcing and essential to the success of tracing operations.







Small Arms

- Revolvers and self-loading pistols
- Rifles and carbines
- Sub-machine guns
- Assault rifles
- Light machine guns









- Heavy machine guns
 - Hand-held under-barrel and mounted grenade launchers
 - Portable anti-aircraft guns
 - Portable anti-tank guns
 - Recoilless rifles
 - Portable launchers of anti-tank missile and rocket systems
 - Portable launchers of anti-aircraft missile systems
 - Mortars of a calibre of less than 100 mm

(ITI, para. 4b)







Implementation of the ITI NECESSARY LEGISLATIVE AND ADMINISTRATIVE FRAMEWORK



'In accordance with their constitutional processes, States will put in place, where they do not exist, the laws, regulations and administrative procedures needed to ensure the effective implementation of this instrument.' (ITI, para. 24)





Implementation of the ITI

KEY LEGISLATIVE AND ADMINISTRATIVE TASKS

UN Member States need to determine:

- What changes to national laws, regulations, and administrative procedures are needed to meet ITI requirements.
- Whether and how to strengthen national capacity for ITI implementation (e.g. inter-ministerial coordination; consultation with industry, NGOs, and other stakeholders; training programmes).







Implementation of the ITI

NATIONAL POINT OF CONTACT (NPC)

'States will designate one or more national points of contact to exchange information and act as a liaison on all matters relating to the implementation of this instrument.' (ITI, para. 25)



NPC information—such as phone number and email address—should be kept updated to allow for timely communication.





International cooperation and assistance

AREAS FOR PRIORITY ATTENTION



- National marking capacity Import marking and marking of government security force stocks.
- Effective record-keeping systems
 The computerization of national records.
- Functional tracing systems Accurate weapons identification; precise tracing requests; communications and IT systems.





ITI follow-up process

NATIONAL REPORTING

Every two years. May form part of states' national reports to the UN Programme of Action (PoA). (ITI, paras. 36-37)



REVIEW CONFERENCES

Review of implementation and future development of the ITI as part of PoA review conferences. (ITI, para. 38)





ITI information and resources

For further information regarding ITI implementation (ITI text in 6 languages, national implementation reports, points of contact, and other documents), please refer to:

Programme of Action implementation support unit









Rifle, pistol, and internal components relevant to marking





Marking method selection is a national prerogative

(ITI, para, 7)

For information on marking technologies see Small Arms Survey Issue Brief 1, 'The Method behind the Mark.'

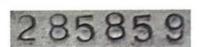






Marking methods

STAMPING



Strengths

- Recoverability of the mark (highest probability)
- Low cost

Weaknesses

- Often unsuitable for marking fully assembled firearms (due to stresses induced by stamping)
- Ineffective for marking polymers





Marking methods

DOT PEEN OR MICRO PERCUSSION

119640

Strengths

- High speed
- Low cost
- Low stress on components

Weaknesses

- Shallow depth of mark (may not be recoverable if removed)
- Not optimal on polymers
- Firearm needs to be locked into place while being marked





Tracing reference material

Small Arms Survey Weapons ID Database

www.smallarmssurvey.org/weapons-andmarkets/tools/the-weapons-id-database.html

Sudan Arms and Ammunition Tracing Desk

www.smallarmssurveysudan.org/ facts-figures-weapons-tracing-desk.php

Small Arms and Light Weapons Guide
Published by the German Bundeswehr
Verification Centre: Multinational
Small Arms and Light Weapons Group

Small Arms, Light Weapons and Ordnance ID Guide Published by the US Defense Threat Reduction Agency





The Office of Weapons Removal and Abatement (PM/WRA)

The Office of Weapons Removal and Abatement is a division of the US Department of State's Bureau of Political-Military Affairs (PM/WRA).

The Office develops, implements, and monitors policy, programmes, and public engagement efforts to:

- Curb the illicit proliferation of conventional weapons of war such as light automatic weapons and rocket-propelled grenades
 - Remove and destroy other material such as landmines and excess stocks of munitions, which remain persistent threats to local populations and regional stability
 - Create local, regional, and international conditions conducive to peace, stability, and prosperity

For more information visit the website: www.state.gov/t/pm/wra





The Small Arms Survey

The Small Arms Survey serves as the principal international source of public information on all aspects of small arms and armed violence, and as a resource centre for governments, policy-makers, researchers, and activists.

The Survey produces a range of publications, including the annual flagship Small Arms Survey, as well as Occasional Papers, Issue Briefs and Research Notes, many of which present information relevant to the ITI.

The Small Arms Survey is a project of the Graduate Institute of International and Development Studies, Geneva.

For more information visit the website: www.smallarmssurvey.org





INTERPOL Firearms Reference Table for firearms identification







Use of INTERPOL mechanisms and facilities for tracing

INTERPOL may, at the request of a State, assist in the following areas:

- Facilitation of tracing operations conducted within the framework of the ITI
- Investigations to identify and trace illicit small arms and light weapons
- Building national capacity to initiate and respond to tracing requests





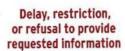
Delay, restriction, or refusal to provide requested information

EXPLANATION BY THE REQUESTED STATE

'If a State delays or provides a restricted response to a tracing request, or refuses to provide the information sought (...) it will inform the requesting State of the reasons for this. The requesting State may subsequently seek clarification of this explanation.'

(ITI, para. 22)





States may delay or restrict the content of their response, or refuse to provide the information sought, in cases where releasing the information:

- Would compromise ongoing criminal investigations.
- Would violate legislation on the protection of confidential information.

States may also choose not to cooperate when the requesting State cannot guarantee confidentiality for reasons of national security consistent with the UN Charter.

(ITI, para. 22)



Responses to tracing requests

GENERAL COMMITTMENT

In responding to a tracing request, the requested State will provide all available information sought by the requesting State that is relevant for the purpose of tracing illicit SALW.

(ITI. Para. 20)

REQUIRED INFORMATION

The requested State may seek additional information from the requesting State if a tracing request does not include all the information required.







Responses to tracing requests

GENERAL COMMITTMENT

States will provide prompt, timely, and reliable responses to tracing requests made by other States.

(ITI para, 18)

ACKNOWLEDGEMENT OF RECEIPT States receiving a tracing request

States receiving a tracing request will acknowledge receipt within a reasonable time frame.

(ITI, para. 19)





Content of a tracing request

Successful tracing depends on the provision of accurate and complete information on the weapon that is the subject of the tracing request. Basic weapons information includes:

- Manufacturer
- Country of manufacture
- Serial number
- Year of manufacture
- Type/Model
- Calibre





Content of a tracing request

To ensure smooth and effective cooperation, tracing requests for SALW will include, at a minimum, the following information:

- Description of the illicit nature of the weapon
- Description—to the extent possible of the circumstances in which the weapon was found
- Markings, type, calibre, and other relevant information—to the extent possible
- Intended use of the information requested







Tracing requirements

States will ensure that they have the capacity to respond to tracing requests, in accordance with the requirements of the ITI.

(ITI, para. 14)

- The name and address of the entity to whom the state of any agency anding on behalf of the company, sold the weapon;
- A list of any weapons which may have been sold in the same consignment as the nictured weapons:
- Any information you might have regarding theft from or re-transfer/re-sale by the recipient entity.





Restrictions on the use of tracing information

The information exchanged will be:

- Guaranteed by states to be kept confidential.
- Released only to designated competent authorities.
- Used only for its intended purposes.
- Kept within the ITI framework unless authorised by the providing state.

(ITI, para. 15)

Note: The requesting State must inform the requested State at the time of the tracing request if it cannot guarantee confidentiality or maintain the restrictions placed on the use of the information.





Tracing system selection is a national prerogative

TYPES OF TRACING SYSTEMS

- Paper form (paper documents + storage)
- Electronic (electronic requests + data storage)

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i K	Trace Request	Slatus	Weapon model	Serial number	Additional
18	TR-455	Adhe	T/00-86	4543 5487	MS in a tree
3	TH-460	Citatel	Colt Python	8100M	Coll Menut
	TR-467	Actins	Two:9 (000y)	NA.	Untolown
3	776-468	Citreet	Marin 12-pauge	20011	Warte free
60	TH-463	Chest	Ruger MNC 14	72 967004	Diam Rug

Note: While not an ITI requirement, electronic systems are generally considered the best means both of ensuring internal coordination and liaising with international tracing systems, such as that operated by INTERPOL.





Records held by companies going out of business

Companies about to close down are required to forward their records on SALW to the State authorities, in accordance with national legislation.

(ITI, para. 13)







Sample record of import



COUNTRY OF MANUFACTURE: Serbia (Yugoslavia)

Company X, State Y

YEAR OF IMPORT: 2012

IMPORTED BY:

CURRENT OWNER: Name and address

PREVIOUS OWNERS: Names and addresses





Sample record of manufacture

MANUFACTURER: Intratec, Miami

COUNTRY OF MANUFACTURE: USA

SERIAL NUMBER: 324907

YEAR OF MANUFACTURE: 1993

TYPE: Handgun, semi-auto

MODEL: TEC-DC9
CALIBRE: 9 x 19 mm







Electronic record-keeping systems









Electronic record-keeping systems







Electronic record-keeping systems

Strengths

- Permit instant data retrieval
- Offer unlimited data storage spaceincluding for images
- Compatible with new stockpile management technologies such as barcodes and RFID tags
- Permit instant information sharing with relevant national or international agencies

Weaknesses

- Require a reliable electricity supply
- Require appropriate training in use and maintenance
- Potentially vulnerable to cyber attack
- May not allow for immediate identification of data alteration unless programmed to do so





Paper record-keeping systems







Paper record-keeping systems







Paper record-keeping systems

Strengths

- Do not require reliable and consistent electricity supply
- Do not require IT infrastructure
 - Permit immediate detection of attempts to alter data

Weaknesses

- Exposed to physical damage and loss
- Require appropriate and secure storage space
- Not easily searchable
- Not compatible with new stockpile management technologies such as barcodes and RFID tags
- Impose limitations on the quantity of information that can be stored





Record-keeping system selection is a national prerogative

TYPES OF RECORD-KEEPING

- Paper records (registers)
- Electronic records (databases)

Note: While not an ITI requirement, electronic records are generally considered the best means of ensuring timely and reliable tracing.









Duration of records

INDEFINITE RECORDS

Records will, to the extent possible, be kept indefinitely. At a minimum, a State will ensure the maintenance of:

- Manufacturing records for at least 30 years.
- All other records, including of import and export, for at least 20 years.

(ITI, para. 12)





Record-keeping requirements



- Records must be established for all marked SALW
- Records should be accurate and comprehensive
- Records should allow for the timely and reliable tracing of illicit SALW







Tracing-related information

USEFUL LINKS AND TECHNICAL ASSISTANCE

Conflict Armament Research www.conflictarm.com/fieldguides.html

Interpol - Firearms www.interpol.int/Crime-areas/Firearms/Firearms

ITI Document

www.poa-iss.org/InternationalTracing/ITI_English.pdf

Small Arms Survey

www.smallarmssurvey.org/ regulations-and-controls/control-measures/markingrecord-keeping-tracing.html

UNODA

www.poa-iss.org/InternationalTracing/ InternationalTracing.aspx

> UN Sanctions www.un.org/sc/committees





The International Tracing Instrument (ITI)

The ITI is designed to facilitate the successful tracing of small arms and light weapons (SALW) used in crime and armed conflict.

Tracing is the 'systematic tracking of illicit small arms and light weapons found or seized on the territory of a State from the point of manufacture or the point of importation through the lines of supply to the point at which they became illicit.' (ITI, para. 5)

The ITI applies to all UN Member States since its adoption by the UN General Assembly on 8 December 2005.

