

Key Duplicating machine



Keys



Sheet Metal Components



Accessories



# COMPANY PROFILE

**MINDA SILCA ENGINEERING PVT.LTD.**



# Overview 2021-22



**Revenue (2022-2023) 1961 Million INR**



**Strong Workforce of 586 people**



**Product Range : Keys (Mechanical and Electronic), Key Duplicating Machines (Mechanical & Electronic) , Automotive Devices (Programing & Cloning) & Sheet Metal Components**



**JV Partner :** [Spark Minda](#), Ashok Minda Group (erstwhile MINDA Group) has a major presence in Global Automotive Industry and is one of the leading manufacturers of automotive components for the OEMs. The US \$645 Million Group, with a workforce of more than 17,000 is catering to the leading Passenger Vehicle, Commercial Vehicle, Motorcycle & Scooter, Off-road Vehicles & Tier 1 supplier, where as [Silca](#) Italy is part of Dormakaba group, which operates in more than 50 countries in the world. It works majorly in five product groups : Access + Data System , Key Systems, Industrial Locks , Door Accessories . Dormakaba has work force of more than 16000 employees worldwide. In 2017-2018 the turnover of Dormakaba group was 2.8 Billion CHF .



**[IATF 16949 : 2016](#) & [Standard:14001:2015](#)**



**SPARK Minda India (Ashok Minda Group) and Silca S.p.A, Italy (Dormakaba Group, Switzerland), world leader in key cutting solutions joins hand in 2006 .**





# Plant Locations



**SILCA S.p.A., Vittorio Veneto(ITALY)**



**MINDA SILCA Engineering Pvt. Ltd., Greater Noida (INDIA)**



**ADVANCED DIAGNOSTICS Ltd., Nuneaton (U.K.)**



**Silca South America S.A., Bogota (COLOMBIA)**



**KABA ILCO Corp., Rocky Mount (NORTH AMERICA)**



**Wah Mei  
Huanghai-Taishan  
China**



- To be a dynamic, innovative and profitable precision component manufacturer for automotive as well as non-automotive organization with a special focus on Keys & KCM, emerging as the preferred supplier and employer to create value for all stakeholders.



- To leverage our strength of being a HUB for plastic headed keys & low cost MKCM for the group & to expand business with ILCO.
- To grow in After Market for India + SAARC by 25% YOY & ASEAN by 50% YOY.
- To make a breakthrough in OEMs in India other than Minda/Dorset.
- Possibility to look beyond Keys & Keys cutting machines by adding a new product range altogether.
- To develop low cost semi electronic key cutting machine.
- To develop a range of very low cost MKCM in competition to Chinese & Taiwanese product.

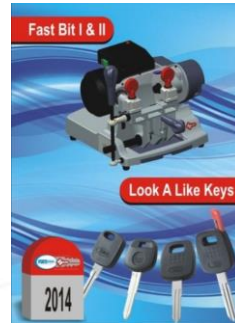
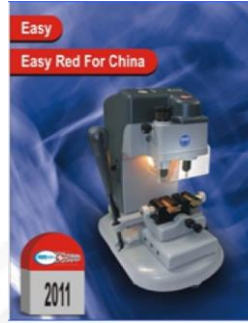
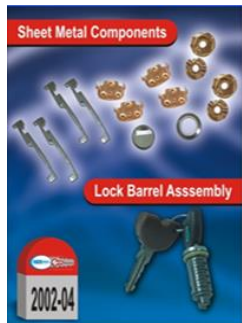


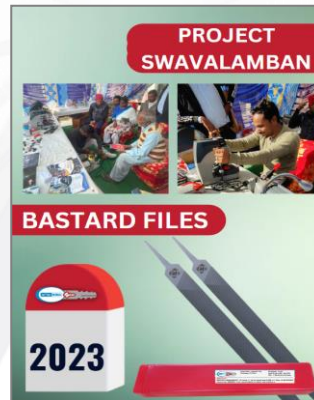
- Expertise in variety handling.
- Creating an environment for Innovation and Creativity.
- Enhance capabilities to absorb technologies from Silca for manufacturing group products in India.
- Benchmarking processes of Silca for manufacturing of Keys.
- To enhance the value proposition of product & services by partnering suppliers /customers for Key Duplicating Machine.





# Milestones







# Customers We Serve



TOYOTA



BOMBARDIER





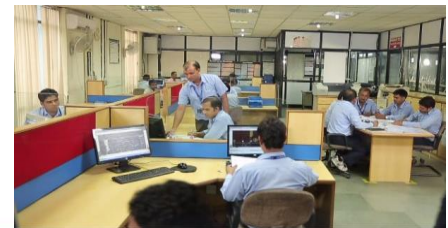
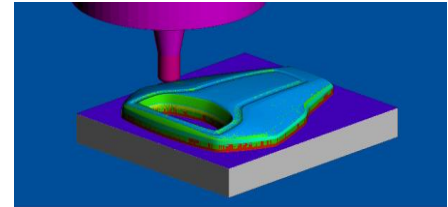
1.) Integrated Design office  
(a) 3D software –Solid works, Creo + TDO  
(b) 2D software – Auto Cad  
Iron Cad

2.) Standardized design  
procedure for Product  
design & Tool design

3.) Rapid Tooling

4.) Rapid Prototyping

5.) QFD, APQP, DFMEA,  
DFM, 6 $\sigma$ , PPAP





1. Fully Equipped Design center

2. Software used – Solidworks, Creo + TDO & Auto Cad

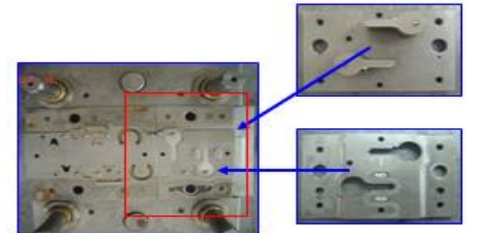
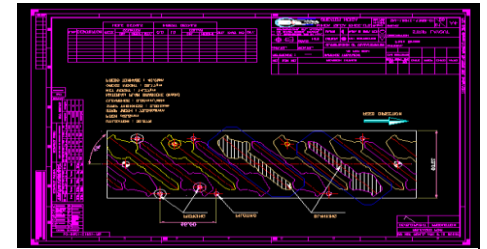
3. Competent specialized Designers

4. Tool design standardization

5. Low cost Cassette design's

6. In house Tool design Manual

7. DFM & Design PokaYoke, SMED





# In House Tool Manufacturing

1. Fully Equipped Tool room

2. Integrated CAD, CAM facility to reduce development time & strengthen development capability.  
(a) CAM software- Del cam

3. State of the art technology like Makino VMC & Sodick Wire cut, Joemars EDM, 2D height master for tool & part inspection.

4. Competent Engineers and specialized Skilled Die makers.





1. Quality certified as per IATF 16949 : 2016 (1<sup>ST</sup> edition, 2016-10-01)

2. In house Product Reliability Testing Facility

3. Use of MSA, SPC, R&R , Profile projector & Vision measuring machine.

4. Product and process validation

5. Statistical Process Control through PQ man

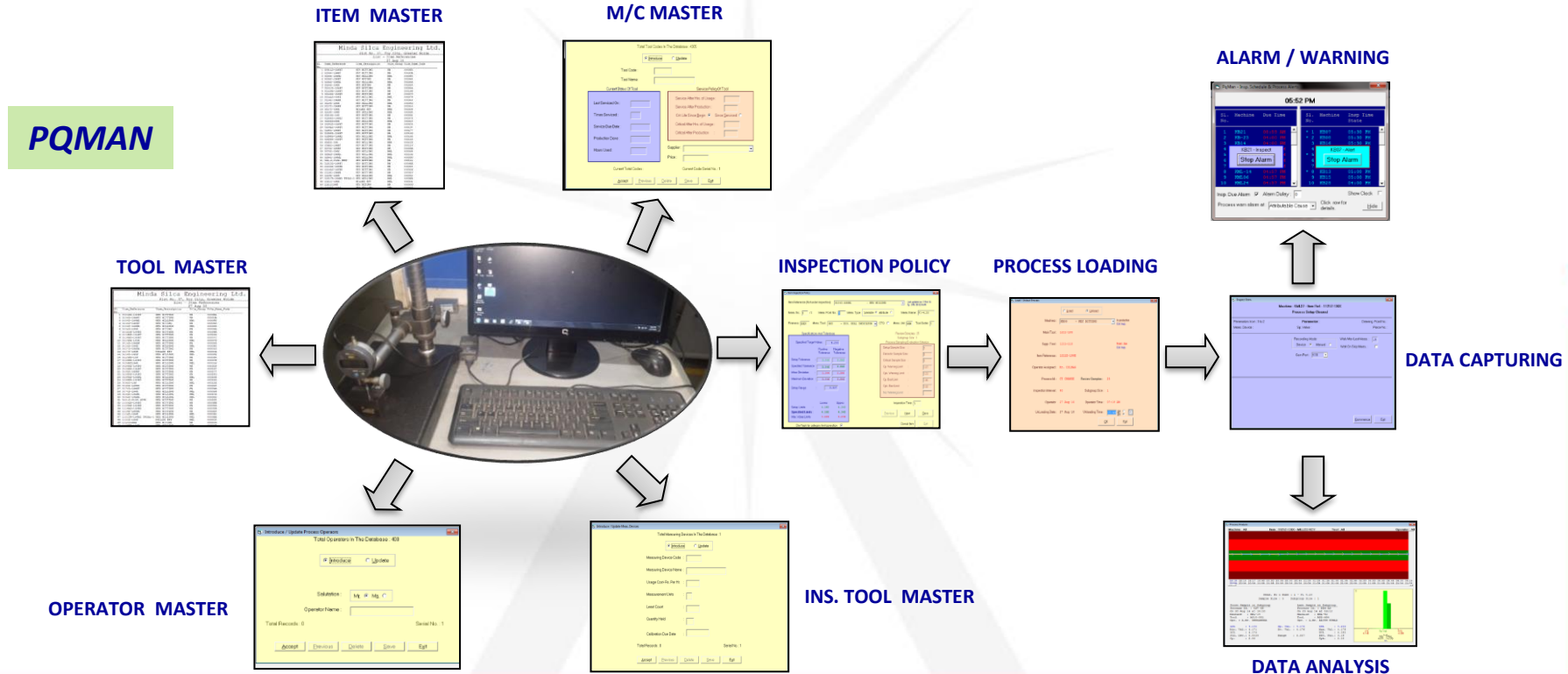
6. Equipped with all functional & parametric testing equipment like 2D height masters, Material Spectro analysis , Profile projector & Vision measuring machine etc.







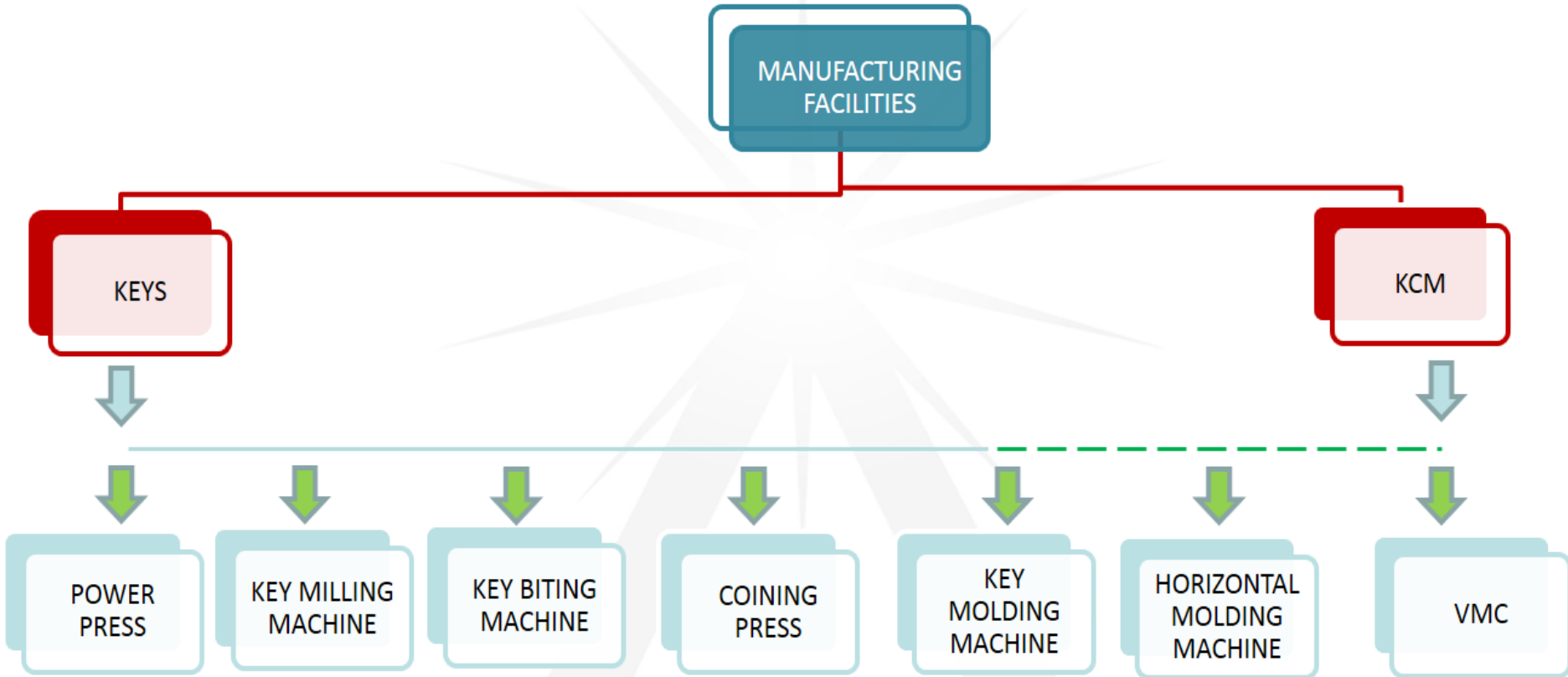
Statistical Process control through PQ man. As key milling & key biting are both very unique & Critical processes for the proper functioning of the product, we have chosen these two processes for Cpk retention through PQ man .





# MANUFACTURING FACILITIES

We are having best in class manufacturing & service facility to fulfill implied needs of customer.





# Manufacturing Process Flow - Keys

## MOULDED KEYS



## COINED KEYS





# Manufacturing Process Flow - KCM

**CHILD PART SUB ASSEMBLY**



**BODY SUB ASSEMBLY**



**CARRIAGE SUB ASSEMBLY**



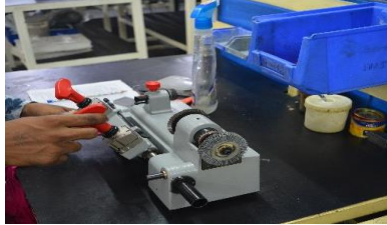
**MACHINE SETTING**



**ACCESSORIES PACKING**



**CLEANING**



**FINAL INSPECTION**

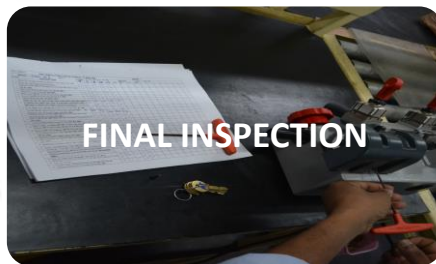


**PRE FINAL INSPECTION**



**FINAL PACKING**







# Manufacturing Facilities – KCM

1) Integrated Design office with support from Silca

- 3D Software – Solid works, Creo
- 2D Software – Auto Cad, Iron CADD

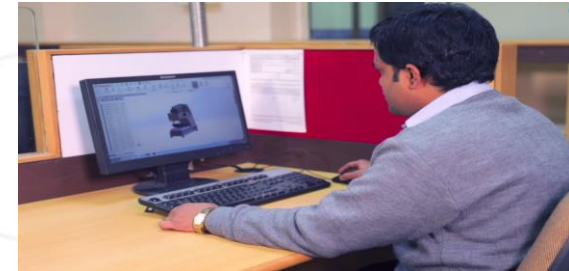
2) Hub for all Mechanical KCM for Silca

3) All machines are CE certified complying with CE and EMC directives.

4) Dedicated manpower for CAM and software maintenance .

5)Dedicated Technical Assistance for real - time troubleshooting

6)PLM (WINDCHILL) & also PMS (JIRA) are implemented





# Product Range



Keys





# MOLDED KEYS





# FLAT COINED KEYS





# CUSTOMER COINED KEYS



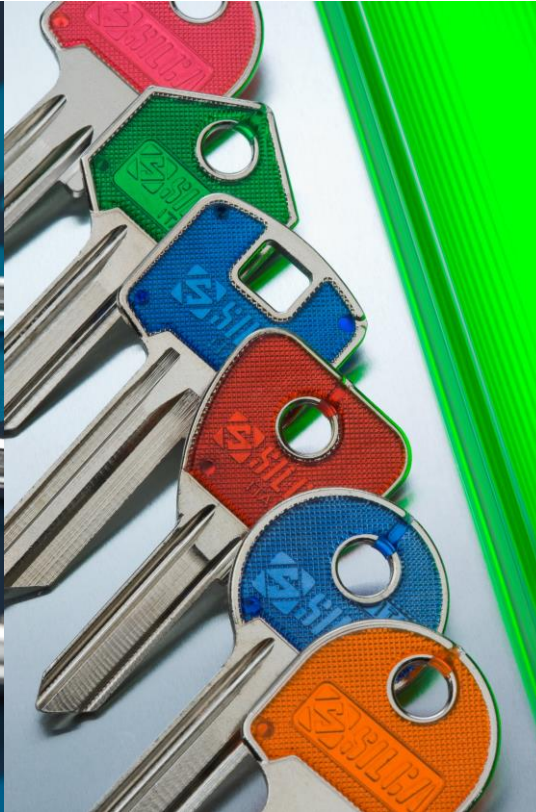






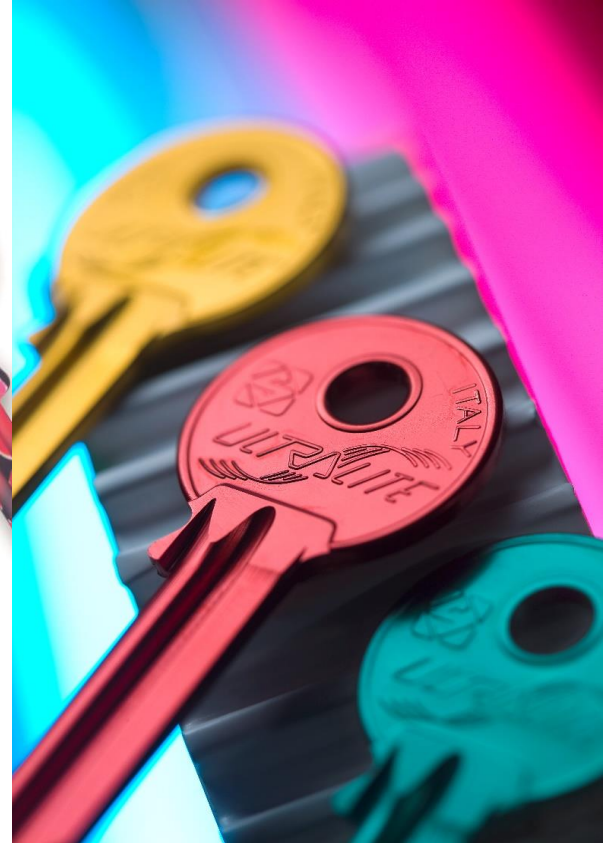
# ELECTRONIC KEYS







# ART KEYS, DIAMOND KEYS & ULTRALITE KEYS







# INDIAN COLLECTION- ART KEYS





# EMPTY KEY SHELLS









## UNIVERSAL FLIP KEY ( 2 WHLR)



**C-FLP 01**



**C-FLP 02**



**C-FLP 03**





# UNIVERSAL REMOTES ( 4 WHLR)





# Product Range

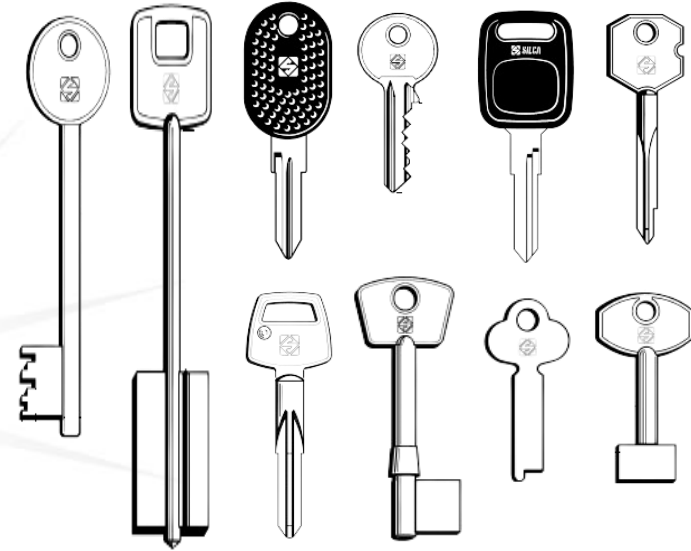


**K.C.M.**



# MKCM – SILCA DUO IQ

## “THE FIRST EVER SMART MECHANICAL MACHINE”



With Duo IQ, Silca introduces an innovative concept of an Intelligent mechanical key-cutting machine. A double carriage makes it possible to cut flat keys for cylinders and vehicles, cruciform, bit and double bit, post box keys, and special keys such as Abus<sup>™</sup> and Abloy<sup>™</sup>. Along with IoT technology the machine guarantees accurate data at finger touch and precision key duplication results for all types of keys.





## MKCM - SILCA DUO IQ(FEB'24)



With **DUO**, Silca introduces an innovative concept of key-cutting machines. A double carriage makes it possible to cut flat keys for cylinders and vehicles, cruciform keys, bit and double bit keys and mail box keys.



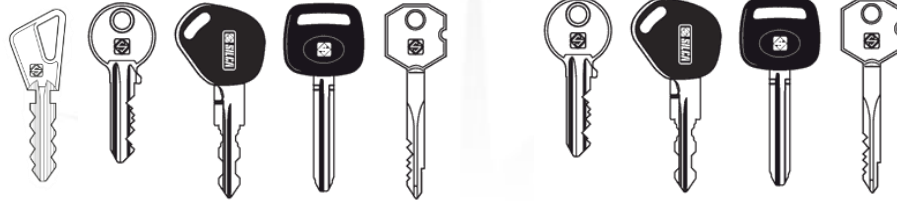
# MKCM - EASY (JULY'2012) , TWISTER II (AUG' 2015) & TWISTER II PRO (MAY'23)



EASY is a manual radial key-cutting machine for special profiles, Dimple Keys or Sidewinder keys . With the dedicated optional accessories, it can also duplicate tubular keys and vehicle keys for a wide variety of brands , now Easy is upgraded to a newer version- Twister II, after incorporating some new features as required by customers. Twister II PRO features tilting clamps ( $0^{\circ} \pm 45^{\circ}$ ) with four different positions for easily installing a wide array of keys: dimple keys with Flat Angled cuts and laser keys. Tibbe keys\*, Flat keys\* and Mercedes keys\* can be duplicated using optional accessories.



## MKCM - SPEED (MARCH 2013) & SPEED S (MAY 2015)



SPEED is a manual key cutting machine for flat keys and automotive keys. A special customized version is also available as SPEED S for the UK market, this key cutting machine is for flat keys used with cylinder, car locks and cruciform.



## MKCM – FASTBIT I (JAN'2015) & FASTBIT II (JAN'2015)



FASTBIT AND FASTBIT II are mechanical key cutting machines for bit and double bit keys, designed and engineered to respond to the needs of key cutters who want to be equipped with a user-friendly, precise, reliable and long-lasting machine or those who are just approaching to duplicate of these specific key types.



# MKCM – FLASH 008 (FEB'2016) , FLASH MOBILE (NOV'2020)& FLASH BIT (MAY'23)



FLASH 008 is the mechanical key cutting machine for flat cylinder and vehicle keys. It also cuts cruciform keys and keys with long necks, tip stop and flip mechanisms . Lightweight and compact, it is perfect for small shops and mobile use. FLASH MOBILE Battery operated, lightweight and easy to use for “on the go locksmithing” Flash Mobile is a battery operated, mechanical key cutting machine for flat cylinder and vehicle keys. It cuts also cruciform keys and keys with long neck, tip-stop and a flip mechanism. Flash Mobile is easy to use and contains a quality PCB controlling the battery status

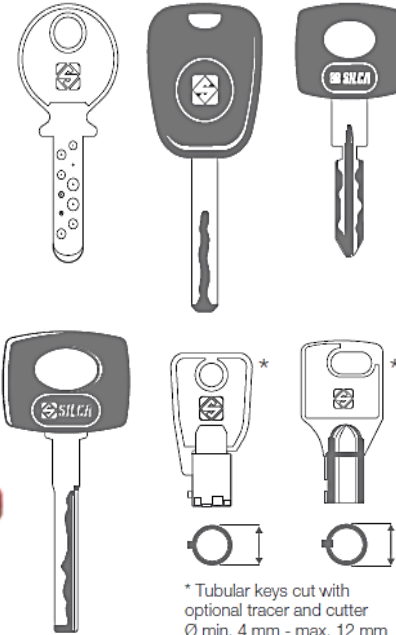




SPEED 4X series, is the range of MKCM that is developed to replace 044HD & 040HD series of ILCO machines. This MKCM range is introduced initially to meet the requirements of ILCO, NA but eventually will also be launched globally thru Silca channels. SPEED 4X can duplicate flat keys, cylinder keys, car and bike keys and cruciform keys.



# MKCM – SWIFT & SWIFT PLUS (FEB'2018), SWIFT 2.0(NOV'23)



\* Tubular keys cut with  
optional tracer and cutter  
Ø min. 4 mm - max. 12 mm

Swift Plus is the economical mechanical key cutting machine for dimple, laser and tubular keys. Easy and comfortable to use and made with resistant and durable materials, Swift Plus is reliable over time ensuring quality cutting results.



In the eighties Silca introduced, first in the world, the duplication based on code numbering, marking a technological turn around in the Key Duplication Locksmith Industry . Again in 2014, Silca introduced a new technology , which has challenged and innovated, every day business of the locksmiths by introducing a new upgraded ETCM – FUTURA.



## FUTURA LIGHT (JULY 2018), FUTURA AUTO (FEB 2019) , FUTURA EDGE(JUL 2019)



In Silca was pioneer for locksmithing based on code numbering, marking a technological turn around in the Key Duplication Locksmith Industry . Again in 2018, Silca re-introduced there successful EKCM Futura, which is now “Made In India” & also enabled with Geo-fencing feature to innovated, every day business of the locksmiths.



# Product Range



## PROGRAMMING & CLONING DEVICES





## TRANSPONDER KEY SOLUTIONS – RW5 & SMART AERIAL PLUS



Cloning calculations are made using Advanced Diagnostics proprietary servers to guarantee reliability, ensuring that the latest routines are always available and time-consuming software updates are avoided. RW5 is the fast, easy solution able to duplicate transponders for around 99% of cloneable vehicle keys in circulation, including ID46 and ID48. Smart Aerial+ works hand in hand with the MYKEYS Pro app to guide the user through the entire cloning process, providing all the necessary information needed to deliver a perfect duplicate key.



## UNIVERSAL REMOTE CABLE : PRESSTING CABLE



**EASIEST SOLUTION FOR DUPLICATING CAR REMOTES:** The Silca Universal Remote Cable connects the remote to the smartphone to pre-set a new remote in just a few seconds. You just need to select the vehicle model from the MySilca SRP App and the cable enables pre-set data to be written onto the remote key.



With the acquisition of Advanced Diagnostics in 2014, Silca increased its stronghold in the Programming Devices The state of the art , OBD vehicle key programmer that works with most vehicle makes and models worldwide , for easily programming transponder keys, proximity keys and remotes and for reading the PIN codes for numerous manufacturers. It features an intuitive touch screen user interface and incorporates the entire Advanced Diagnostics Info Quest database with over 5000 vehicle models. It is a flexible, all-in-one solution offering the user a combination of purchase options.



## TRANSPONDER KEY SOLUTIONS – RW4 & FAST COPY PLUS



**SILCA M BOX** - 100% guaranteed cloning solution for Megamos® Cryptos ID 48 Transponders

RW4 Plus & Fast Copy Plus are the Silca Cloning Devices for correctly identifying Transponder keys & for correctly copying all fixed code type Transponder keys, Texas Crypto Transponder keys & Philips Crypto (ID46) keys. With the introduction of M Box, now all ID48 transponders can also be copied using these devices.





# Product Range



## SHEET METAL COMPONENTS



[illegible]

## OTHER RELATED PRODUCT (EBTC)



## Chipolo



## Silicon Cover



## Workstation



## Safety Car Charger



## Lockset (2W,3W&4W)



## Padlock







# Product Range



**SAFETY PRODUCTS LAUCHED DURING  
COVID SCENARIO**

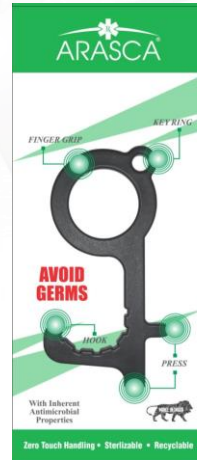
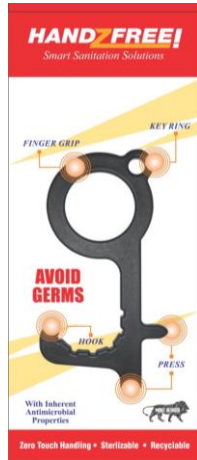
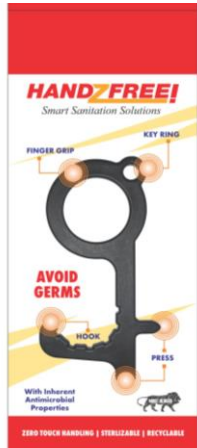


- HandZoff is made from 100% recycled brass, a copper alloy proven to have an effective, ongoing anti-bacterial effect
- HandZoff keyring tool that presses, grabs, hooks and grips to avoid touching germ-covered surfaces with bare hands.
- Made in INDIA





- HandZfree helps you avoid touching contaminated objects/surfaces which are possible source of infection like Switches, Buttons, Door Bells, Door Handles, Levers etc.
- It offers a unique, eco-friendly, non-hazardous, anti-microbial coating for surfaces to prevent virus contamination. Silver Ion inorganics proprietary base, used for imparting anti-virus properties on polymer surface.





# Franchise Business



## Silca Keys & Accessories StorZ





# Area Reserved for High Quality Key Cutting Service



01

USE OF TECHNOLOGY -  
ADVANCED MACHINES AND DEVICES

02

PROPERLY ORGANIZED

03

PROFESSIONAL APPROACH

04

MORE SECURE AND TRUSTWORTHY

SKAZ





# After Market Operations



# Indian After Market Operation



Our plant location Minda Silca Engineering Pvt. Ltd , Greater noida.

▲ Manpower Locations

▲ Proposed Manpower Locations

★ Currently we have a Strong Network of 23 Distributors covering Most States of India

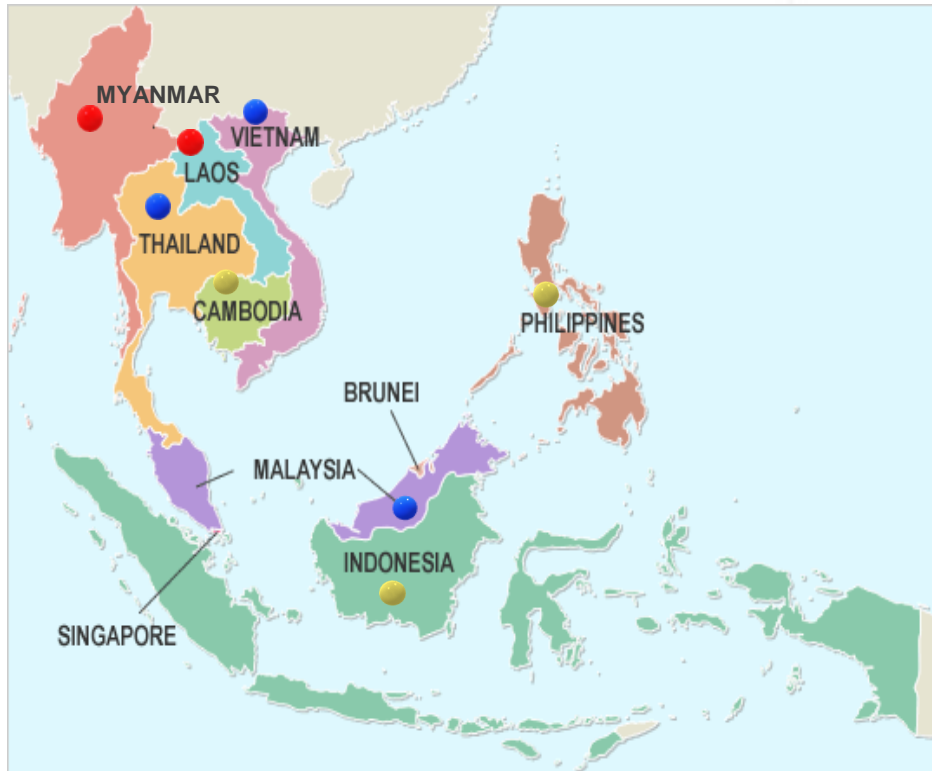
★ Focused on B Class Cities Targeted to appoint 15 new Sub-Dealers in B Class Cities in 2021-2022



Minda Silca came together with PT Minda Trading (Indonesia) in 2011-2012 to cover the South East Asian Market.

Minda Silca continued its venture in South East Asian market directly thru Export Department w.e.f. 1<sup>st</sup> April'2014.





## Focused Countries

- Thailand
- Malaysia
- Vietnam



## Also Operating in

- Indonesia
- Philippines
- Cambodia

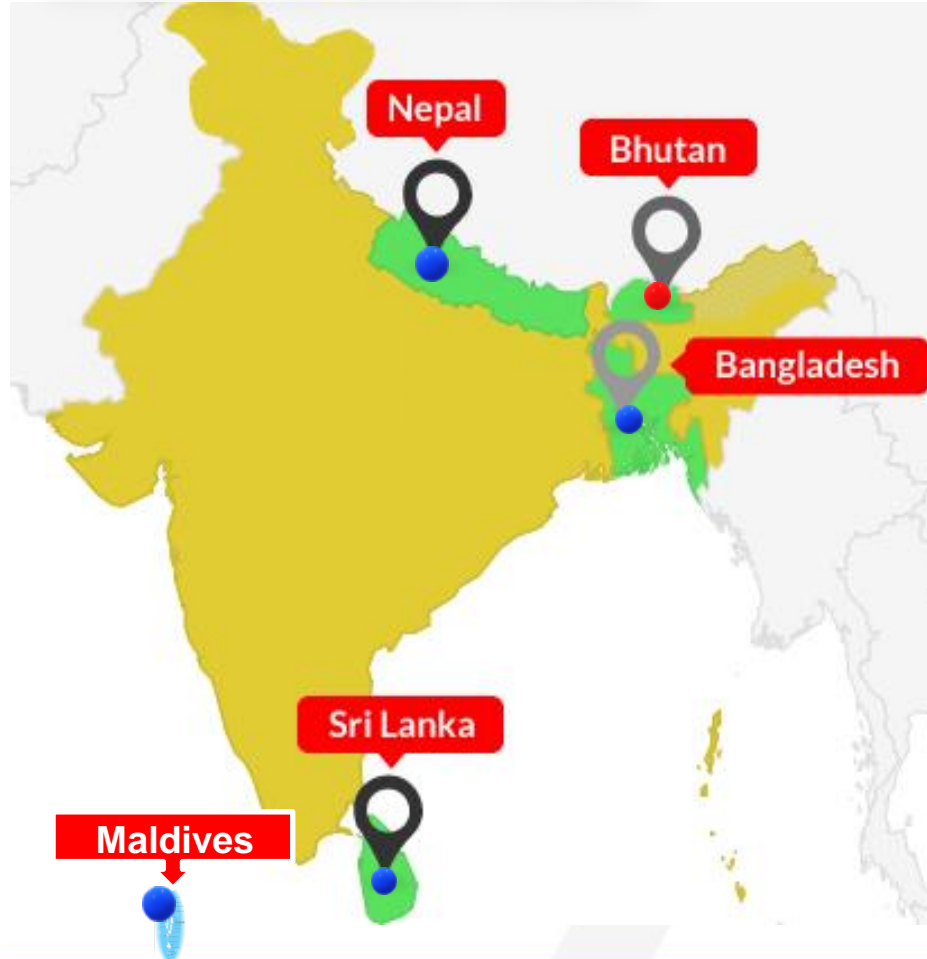


## Next Destinations

- Myanmar
- Laos



# Venturing Into SAARC markets



## Already Operating in

- Nepal
- Sri Lanka
- Bangladesh
- Maldives



## Next Destinations

- Bhutan



# After Market Participation- Trade Exhibitions



**AUTOMECHANIKA- NEW  
DELHI 2024**



**SAIGON LOCKSMITH  
MEET - VIETNAM 2023**



**AUTO EXPO – NEW  
DELHI 2023**



**COLOMBO LOCKSMITH  
MEET – SRILANKA 2023**



**FRO – CHENNAI 2023**



**FRO – BENGALURU  
2023**



**FRO – HYDERABAD  
2023**



**FRO – DELHI 2022**





# Awards and Accolades







## Blood Donation

Because  
**donation** can save  
as many as three  
lives....



Care for  
Persons with  
**Disability**  
for a life with  
dignity...



## Planting Trees

For a life  
long  
investment....



# Thank You

Visit us at [www.mindasilca.in](http://www.mindasilca.in)

