

COPY OF THE ORIGINAL

INSTRUCTION MANUAL

5 AXIS CLAMPING VICE







Code: 10705922 Printed January 2020

Overview



Index

General safety instructions	3
Technical data	4
Usage notes	5
Installation	8
Disassembly	12
Spare part list	13



INSTRUCTION MANUAL 5 Axis clamping vice



Thank you for purchasing an Original OML product.

This instruction manual contains the installation and maintenance of the IMG vice.

OML reserves the right to make changes without notice.

This instruction manual is a part of the work holding and must be passed to the new owner in case of sale.

This instruction manual may not be in whole or in partcopied without our written agreement.



Please read the instruction manual carefully before installation and use and always follow the regulations.

Please note especially the sections which are marked with the following signs:



- Danger of injury or danger to life if instructions are not followed.
- Danger of damage to the work holding, the machine or the components.

General Safety Instructions





Danger!



General precept sign!



General warning sign!



Warning of hand injuries!



Danger to the environment!



Follow the instructions!



Warning of risk of crushing!



Warning of suspended



1. Correct use

OML clamping systems work safely and troublefree, if they are used according to their specification i.e. to clamp components on machine tools. Any other use can cause hazards. For any damages resulting herefrom OML is not responsible.



2. Demands on operators

This OML product must be installed, operated and maintained only by qualified and regularly trained personnel.



8. Visual inspection

Please check the product for visible damage prior to use!



4. Transport

Please use suitable lifting gear for product heavier than 16 kg!



5. Safety Precautions

- Maintenance and actuation must be carried out at stopped machine only.
- Maintenance and set up work must be carried out in safe areas only.
- During installing, connecting, adjusting, runoff and testing, it must be ensured, that no accidential actuation of the clamping unit can be carried out by the worker or any other persons.



Max. speed

The clamping unit is intended for stationary use only, and must not be used under rotation!



Danger of injury



- Danger of injury because of missing accessories.
- When actuating the clamping system there is increased chrushing hazzard due to the stroke of the moving components of the clamping system.
- Never reach for the clamping system while the spindle of machine is rotating.
- Prior to working at the clamping system, make sure, that the spindle of the machine cannot be started.
- Work pieces that are clamped with too low clamping pressure, can be ejected!
- Excessive clamping pressure can cause damage or breakage of the individual components of teh cklamping system. Work pieces can be released.



8. Clamping force

The clamping force of the clamping system can vary, depending on its condition (lubrication and contamination). The clamping forces have to verifi ed in regular intervals. Use suitable staic grip force gages.



9. Maintenance

The stationary clamping system has to be maintained in regular intervals. Check the condition by measuring the grip force with a grip force gage. Maintenance must be carried out at stopped machine only.

Replace damaged parts with original OML spare parts only.

Maintenance must be carried out at stopped machine only! Insuffi cient and improper maintenace voids any warranty from OML.



10. Environment protection

Danger for environment when handling incorrect! Incorrect handling of environment hazardous materials, especially the disposal, may result in environmental damage.

- Always follow below instructions.
- In case environmentally hazardous material polluted the environment always take suitable actions immediately. If in doubt, inform the local authority about the pollution.

The following hazardous materials are used: Lubricants such as oil and grease can contain poisonous agents. They must not pollute the environment. The disposal must be carried out by a suitable waste management company.

For a proper function of the work holding, use original OML lubricant only.



For any problems or questions please contact OML directly or one of our authorized offices.

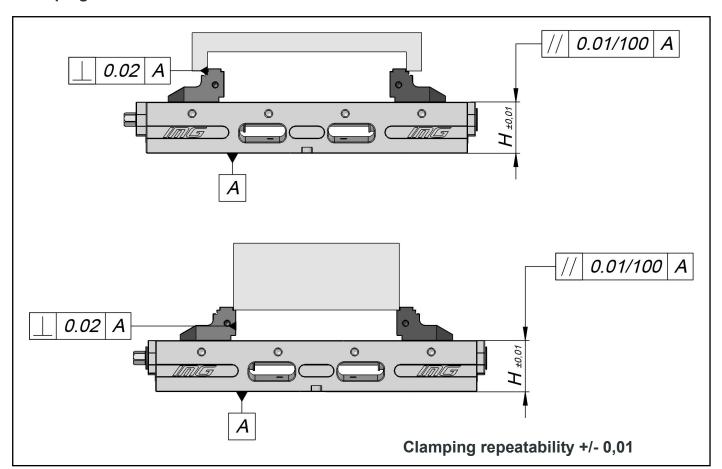


ALL REGULATIONS ACCORDING TO THE PREVIOUS POINTS MSUT BE OBSERVED. THE USE ON MACHINE TOOLS HOWEVER, ALWAYS CAUSES SOME RESIDUAL RISKS, THAT HAVE TO BE ELIMINATED BY THE USER BY SUITABLE SAFETY ACTIONS.

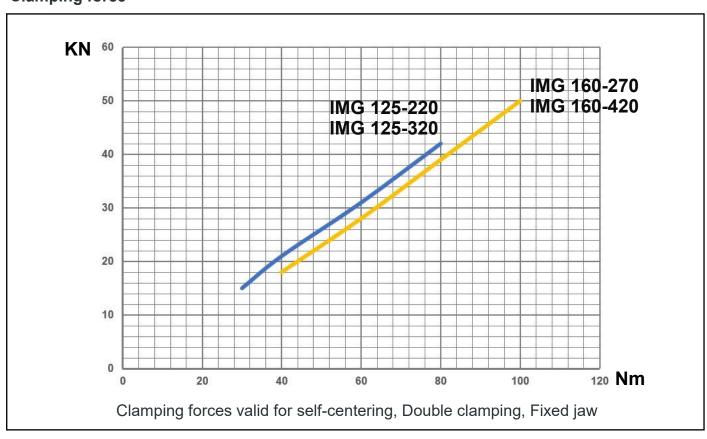
Technical Data



Clamping tolerances

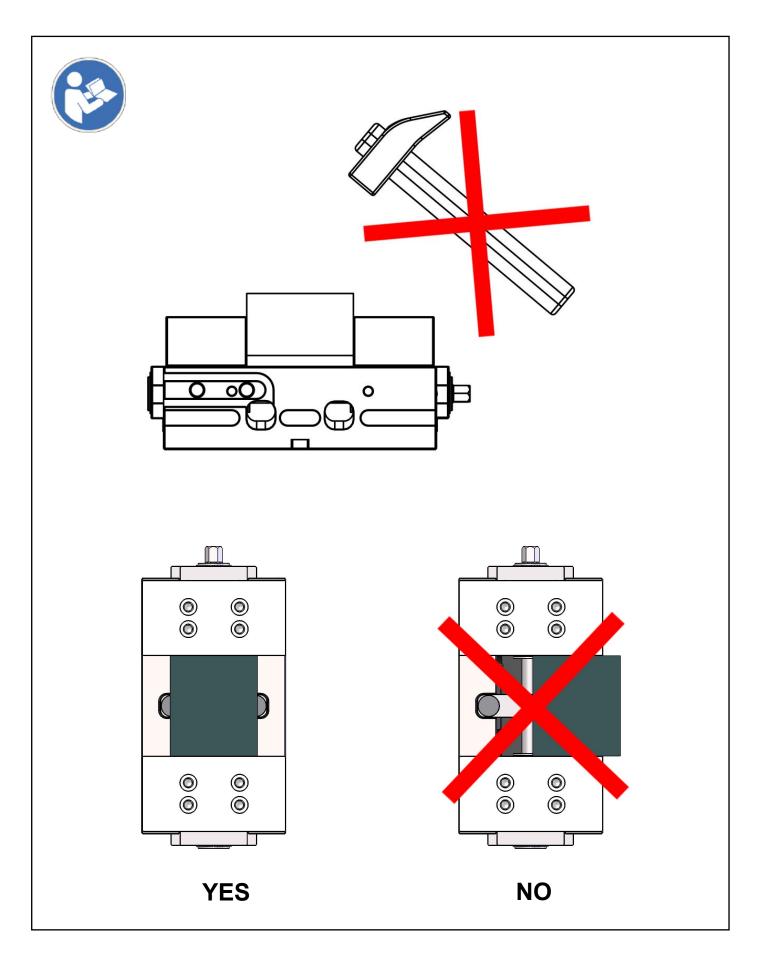


Clamping force



Usage Notes

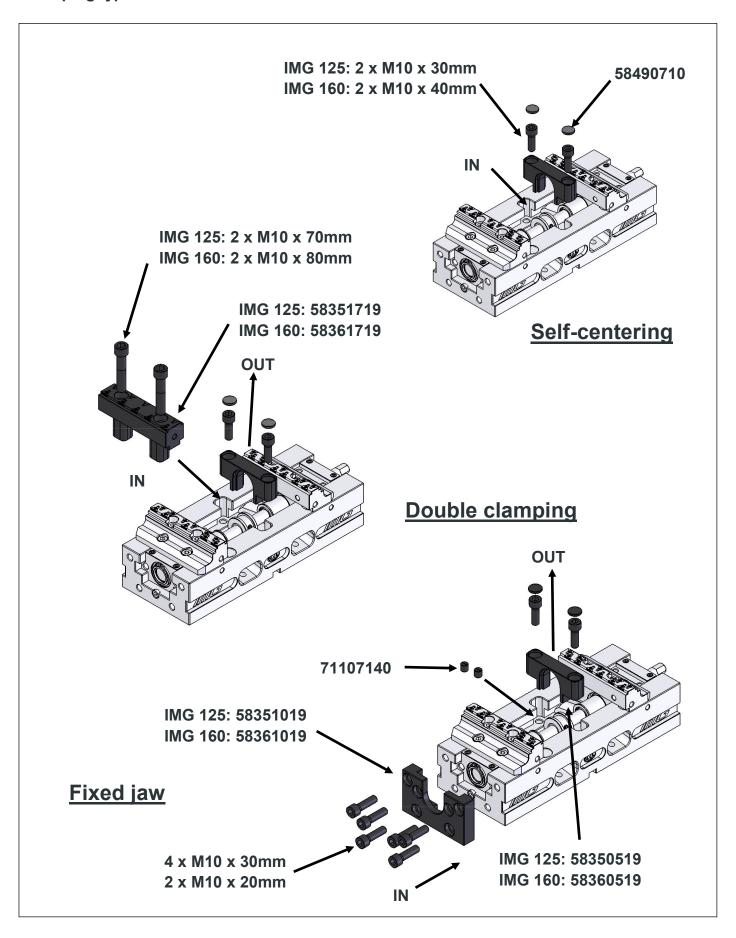




Usage Notes



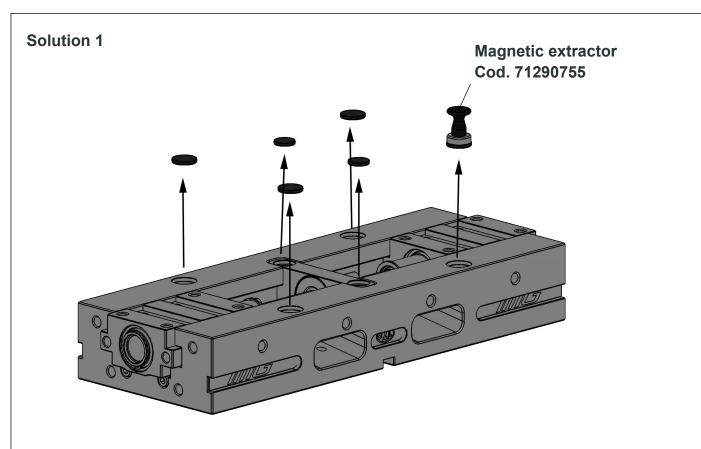
Clamping types



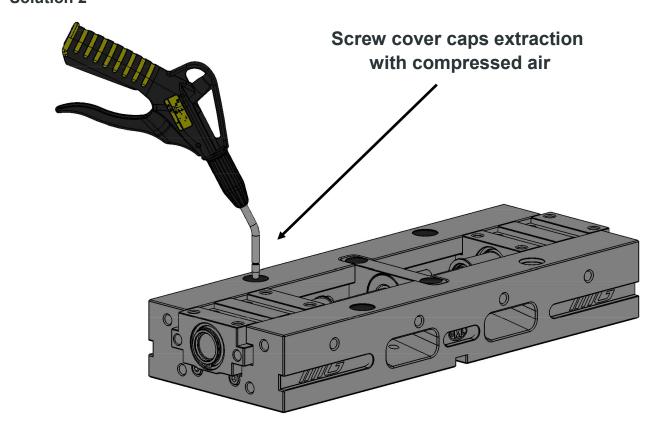
Usage Notes



Screw cover caps extraction

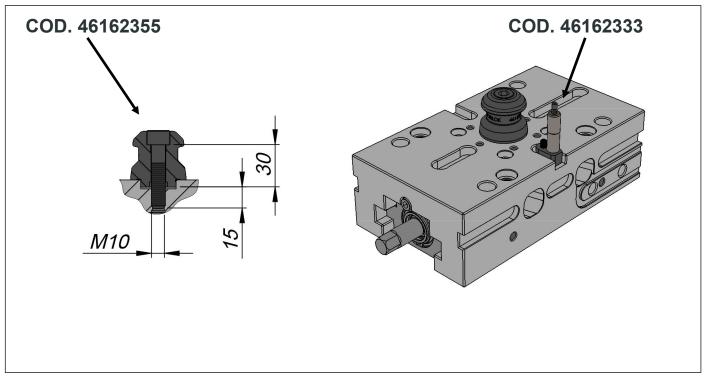


Solution 2



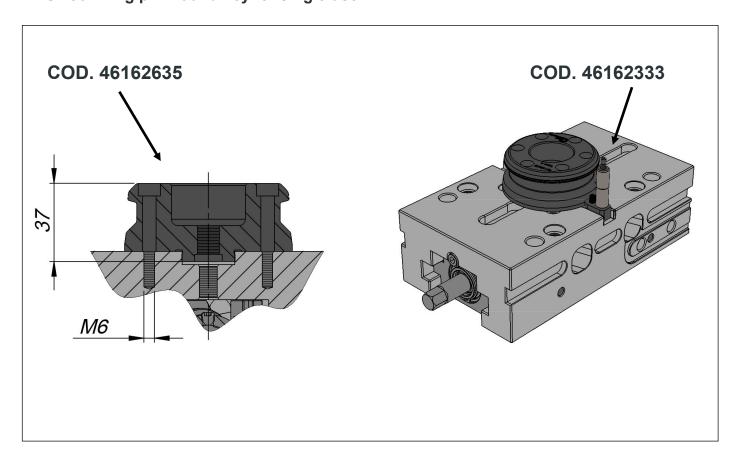


IMG 125 - IMG 160 with APS 140
APS 140 fixing pin kit and key for single use



IMG 125 - IMG 160 with APS 190

APS 190 fixing pin kit and key for single use





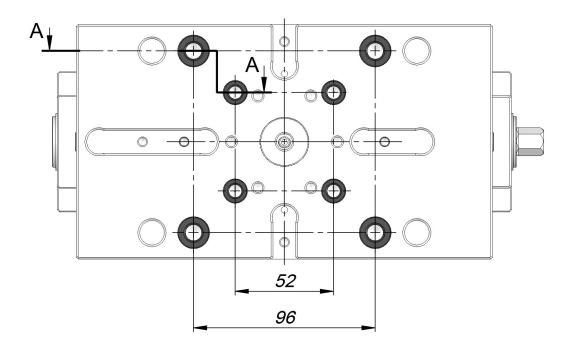
Use on Lang Quick-Point zero point system

IMG 125-220 = LANG 52 - 96 mm

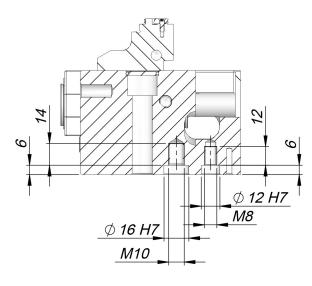
IMG 125-230 = LANG 96 mm

IMG 160-270 = LANG 96 mm

IMG 160-420 = LANG 96 mm

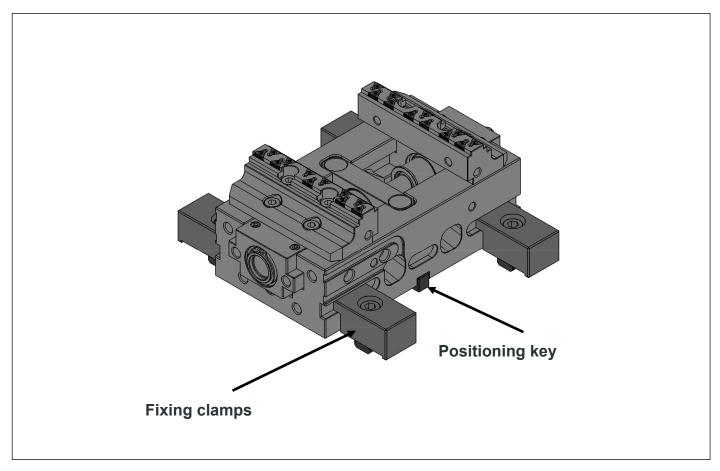


SECTION A-A

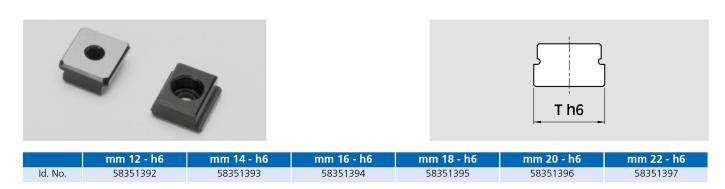




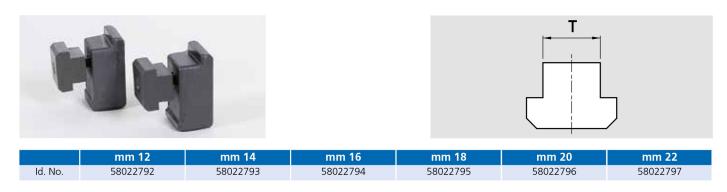
IMG 125 - IMG 160



Positioning key for "T" slots

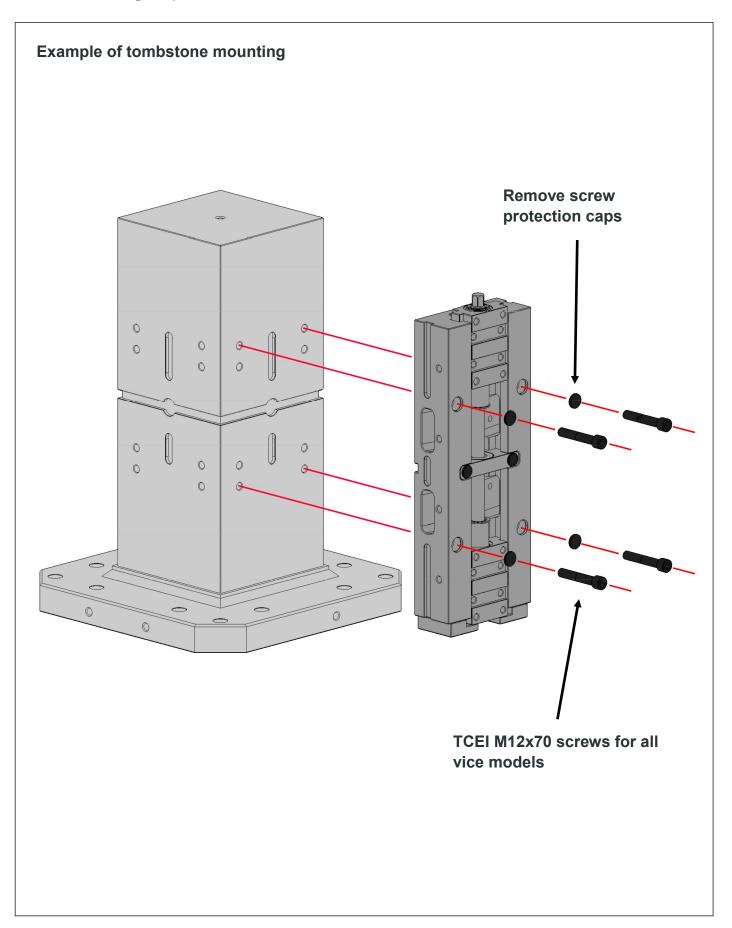


Pair of clamps





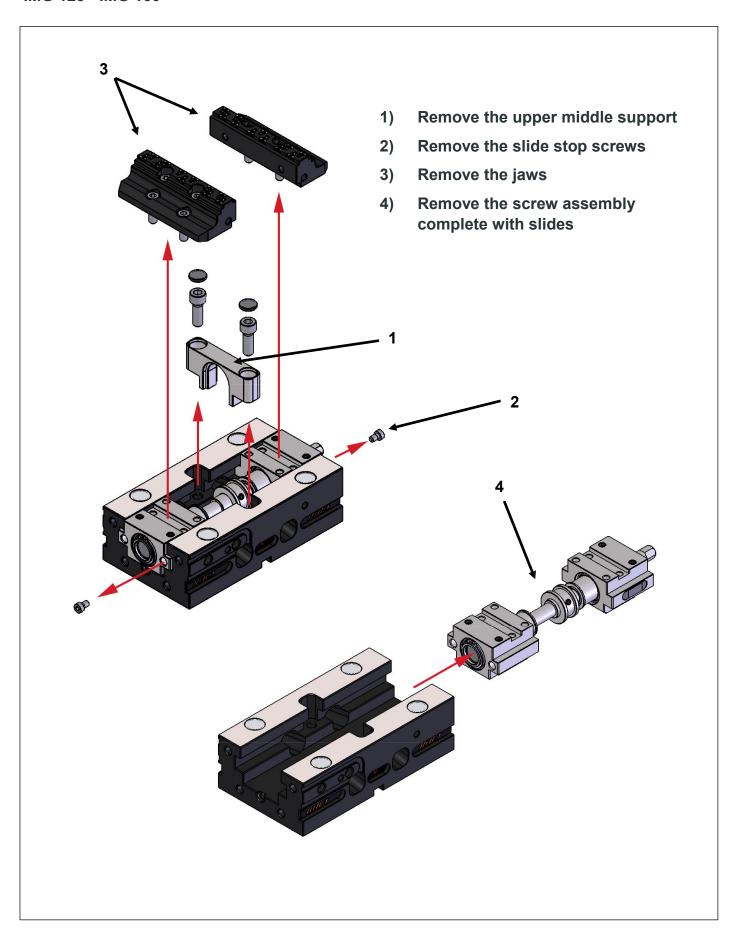
Direct mounting on plate or tombstone IMG 125 - IMG 160



Disassembly



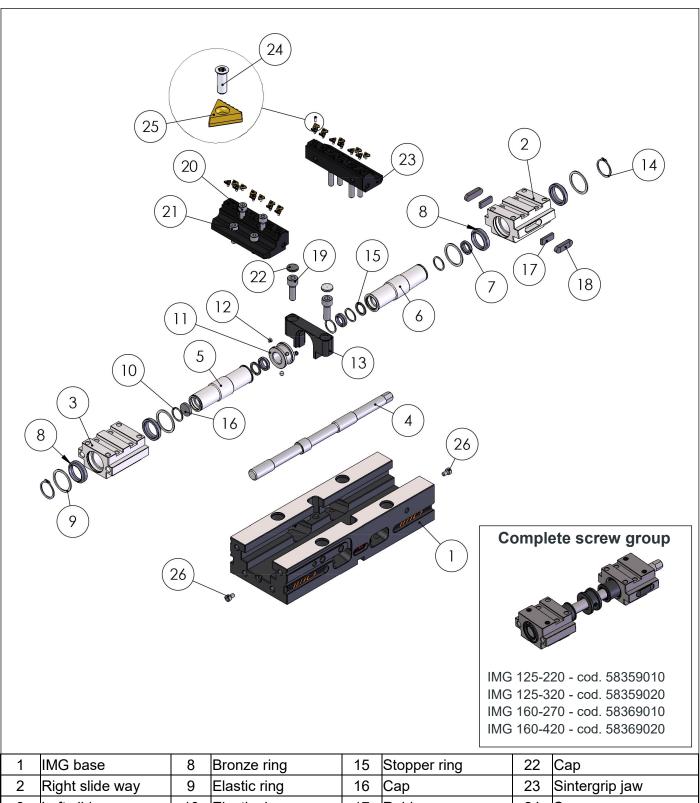
IMG 125 - IMG 160



Spare part list



IMG 125 - IMG 160



1	IMG base	8	Bronze ring	15	Stopper ring	22	Сар
2	Right slide way	9	Elastic ring	16	Сар	23	Sintergrip jaw
3	Left slide way	10	Elastic ring	17	Rubber	24	Screw
4	Operation screw	11	Stopper screw	18	Key	25	Sintergrip insert
5	Left bush	12	Screw	19	Screw	26	Screw
6	Right bush	13	Upper support	20	Screw		
7	Bronze ring	14	Seeger	21	Screw		



