

(EN) Tooling device for artificial structures

WARNING

Climbing and mountaineering are activities with a danger of personal injury or death. Participants in these activities should be aware of and accept these risks and be responsible for their own actions and involvement.

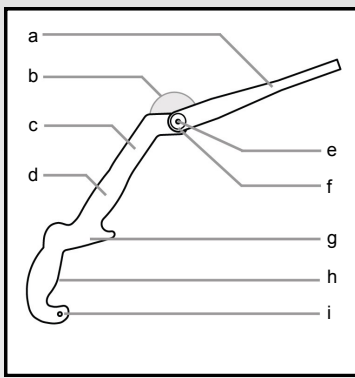
Activities involving the use of this product are inherently dangerous. You are solely responsible for your own actions and your decision to use this product.

Before using this product you must:

- Read and fully understand this Information Guide.
- Understand and accept all risks involved.
- Seek professional, qualified instruction in its proper use.




FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH.



Description of Parts

- (a) Flexible rubber sling
 - (b) 140° between shaft & sling*
 - (c) Top grip
 - (d) Middle grip
 - (e) Locking bolt
 - (f) Compression washer
 - (g) Body / shaft
 - (h) Bottom grip
 - (i) Lanyard hold
- *angle is not accurately shown

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General Information

"Schmoolz" dry tools are designed specifically for use on artificial structures constructed with resin or wooden hand-holds. They are intended as a training aid, and for recreational use, and not designed for any other use or environment. Specifically this product offers no protection from falls and should not be considered a piece of Personal Protective Equipment (PPE as defined in Directive 89/686/EEC).

Pre-Use

You should follow the pre-use checks before commencing any session involving this product. These checks should be carried out routinely before each and every use of this product.

Pre-check list

1. Ensure that the locking bolts (e) on the head are tightened until secure (torque 5.5 Nm), indicated by a small deformation of the rubber against the shaft¹ & ².
 2. Examine the area surrounding the point of contact between the rubber strap (a) and the compression washer (f) for wear and / or tear*.
 3. Examine the whole rubber strap (a) for signs of splitting, deformities, wear and / or tear*.
 4. Examine the wooden body (g) of the tool for signs of fracture, splits or wear*.
- ¹ see Metal Components and Flexible Sling (k) under Maintenance section.
² the optimum angle (b) for the sling position is 140° between shaft and sling (a).
* see Maintenance for more information.

If you detect any signs of damage, as described above or in the maintenance section, discontinue use until the damaged part has been replaced. If in doubt, consult expert advice or the manufacturer.

Safety

Like any piece of climbing equipment, the safe use of this product is dependent on its maintenance, environment and condition of use, age and wear. The following safety procedures should be stringently observed at all times:

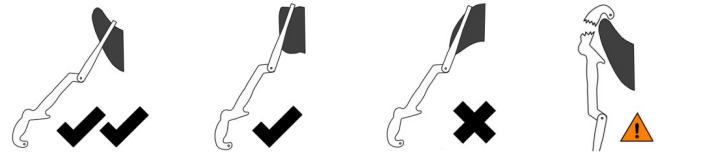
1. This product should ONLY be used on artificial structures constructed with resin or wooden hand-holds.
2. This product should ONLY be used on routes that allow for protection from falls, through the use of a top-rope, bottom-rope or lead-protection (2 x pre-clipped runners). We strongly discourage the use of this product on routes where falls cannot be arrested.
3. This product must NOT be shocked loaded in anyway (through direct falling onto tools or 'dynoing') or where the shaft (g) is used in a leveraging (torque) manner, specifically the bottom grip (g) / lanyard hold (i) should not be used for hooking holds. Either may cause the tool break.

4. It is recommended that a climbing helmet is worn by the user, belayer and any persons in the immediate area, whilst this product is being used. Helmets will provide a degree of protection from accidental contact with this product either from direct impact or through accidental dropping.
5. Users of this product should ensure that all protective equipment (helmets, harnesses, ropes, friction belay devices and top anchors) conform to recognised UIAA standards and are correctly used at all times. Qualified instruction should be sought if in any doubt.
6. It is recommended that this product should be attached to the user, to ensure that it cannot be accidentally dropped. A recognised manufacturers bungee style leash should be connected to the device's lanyard hold (i).
7. The techniques and skills required to use this product differ from normal climbing. As such, the user should take time to learn and develop these skills without risking physical injury from over exhaustion and over use.

Usage

Before using this product, the user should ensure that they are connected to the rope system and their partner has attached their rope to a friction belay device. You should endeavour to use these tools in an area where other persons are not liable to be injured if the product was to be dropped.

The tools are used by looping the rubber sling (a) around suitable hand-holds, providing the climber with sufficient purchase to progress up a route. Some hand-holds are more suitable than others! Small, sloping holds tend to cause the straps to slide off. The climber should try to maximise the use of larger holds, holds that are "juggy" or "hooky" in construction.



The tools are designed to allow the climber to support their entire weight on a single tool if necessary (see Failure Ratings for Maximum Safe Weight). The extended length of the tool allows climbers maximum reach, often achieving holds that wouldn't normally be accessible. It is not necessary to have a specially designed route – these tools function perfectly well on most artificially constructed climbing walls.



The tools provide the climber with two possible grip positions (d, h). This is advantageous if it becomes necessary to change hands or simply to maximise reach.

Skills—Schmool School

Detailed instructions on skills and techniques can be found at our online schmool-school: www.schmoolz.com/school/skills/. Specific training and workshops can be organised by contacting the manufacturers.

Maintenance

Working Temperature

This product has an operating temperature range of 5°C - 50°C. The performance of the flexible rubber sling (a) will degrade at temperatures over 50°C. Below 5°C, the sling becomes rigid and less malleable.

Chemical & Corrosive Reagents

Avoid all contact with chemical reagents (including household cleaners, bleach, solvents, battery acid etc) as they will damage this product and affect its performance. If this product has been exposed to any chemical reagents, discontinue use until it can be verified as being safe. It is possible for this product to be permanently damaged without showing direct signs.

Cleaning

This product is provided in an plywood form treated with a natural organic wax. This provides the greatest degree of purchase and naturally absorbs sweat. Day-to-day dirt can be cleaned from the wooden shaft (g) and the rubber sling (a) using a clean, damp cloth. Do NOT soak the product and always allow it to dry naturally. Detergent, polish or other cleaning products should not be used in any circumstance as these will cause damage to the product. Ingrained dirt and marks can be removed from the wooden body (g) (NOT the flexible rubber sling (a)) using a light grade sandpaper.

Storage

Always store in a cool, dry, dark, ventilated place, away from direct UV-light and other sources of potential damage i.e. sharp edges or corrosive material. This product should be allowed to dry naturally if it becomes wet.

Servicing

In addition to the Pre-Checks that should be carried out before every use of this product, a routine examination should be made of the whole product. Depending on the frequency of use, this should be done every 1-3 months. The entire tool should be dismantled and examined for signs of wear, tear and damage.

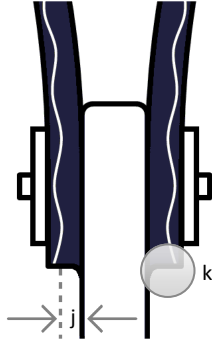
Metal Components

All metal components (d, e) should be routinely examined for signs of rust, corrosion, cracks, deformities or breaks. Locking bolts should be tightened before each and every use. Locking bolts must be removed when replacing the flexible rubber sling (a) – when refitting, ensure that all threads are clean and free of dirt, and not crossed when tightening. The locking bolts should be tightened to a torque of 5.5 Nm, indicated by a slight deformation of the rubber against the shaft (k). Locking bolts should be tightened an equal amount, from alternate sides, gradually getting tighter.

Flexible Slings

The flexible rubber sling (a) should be removed from the product and examined. The sling should be checked routinely, before every use, for signs of wear, tears, splits or deformities. Damaged slings should be discarded immediately! However, over time some fraying at the edge of the internal fabric weave lattice may occur—this is normal and does not affect the strength or safety of the sling.

The sling is the only serviceable part of this product and will, over time, deteriorate. Replacement slings can be purchased directly from the manufacturer. The sling has a specific side that must be used for contact with hand-holds. Close inspection of the sling will show that the fabric weave lattice is closer to one side of sling than the other (j). The thicker side should be used as the internal side that makes contact with the hand-holds and the tool shaft. If you hold the sling, it will naturally form a loop with the weave closer to the outer edge. Replaced slings should be positioned at an angle of 140° between the shaft and the sling (b), as this provides the optimum position for strength and usability.



Wooden Shaft

The wooden shaft should be carefully examined for signs of splits, fractures, cracks and wear. Specifically, the area under the rubber sling should also be examined—checking for distortions of the alignment hole. The shaft should also be checked to make sure that sections of the ply have not become damaged or dislodged.

The wooden shaft has been treated with an organic wax which can be reapplied if necessary. This will protect the wood and prolong the life of the product. Ensure that you select an organic wax (bees wax) that is suitable for plywood. The product must be stripped down and you must ensure that ONLY the wood is treated—some waxes contain organic solvents that may permanently damage the non-wood (rubber sling, metal connectors) components. Ingrained dirt and marks can be removed with a damp cloth or a light-grade sandpaper.

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Specification

Dimensions, Weights and Failure Ratings

All dimensions and ratings shown below are averages based on individual tools, and may vary.

		Product Type
Component	Item	D10
Flexible rubber sling (a)	Length	510mm
	Width	15mm (min) / 32mm (max)
	Thickness	6mm
	Material	Re-enforced rubber
Locking bolt (e)	Length	12mm
	Width	6mm
	Material	Stainless steel
Body / shaft (g)	Length	380mm
	Width	32mm
	Thickness	18mm
	Material	Marine plywood
Complete Tool	Length	592mm
	Width	32mm
	Thickness	18mm
	Weight	265 g
	Failure Load*	4.63 kN
	Maximum Safe Load	2.31 kN
	Maximum Safe Weight (MSW)	235.55 kg

* Failure load rating is based on tensile test, subjecting the complete tool to a load of 50 kN per second producing a 'gradually severe pull', increasing it until failure occurs.

Tests have shown that individual tools are capable of holding loads in excess of the Maximum Safe Weight (MSW). However it is advised that the MSW value is considered a maximum for both tools used in conjunction with one another.

Tensile testing was conducted by: **IPB TESTING**
11 Sedling Road,
Washington
Tyne & Wear.
NE38 9BZ.

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Obsolescence

Flexible rubber sling (a): 6 months after the first use, with absence of cuts, tears and abrasions, contact with chemical reagents, intensive use and failure to maintain as recommended.

Wooden shaft (g): 1 year after first use, with the exception of the following factors that can reduce the lifetime of the product: intensive use, damage to components of the product, contact with chemical substances, high temperatures +50° C, tears and abrasions, violent impacts, failure to maintain as recommended.

If in doubt about the safety and reliability of the product, please contact the manufacturer.

Limited Warranty

The manufacturer (*Manufacturer*) warrants (*Warranty*) this product for one year from the date of purchase and only to the original retail buyer (*Buyer*) that the product (*Product*) is free from defects in material and workmanship. If the *Buyer* discovers a defect, they should return the *Product* to the place of purchase, who will in turn return the *Product* to the *Manufacturer*. The *Manufacturer* will replace such *Product* free of charge if it is deemed that covert fault exists which is as a result of material defects or poor workmanship, and, not covered in the Warranty Exclusions below. This is the extent of the *Manufacturers* liability under this *Warranty* and such liability will cease upon expiry of the applicable warranty period.

Warranty Exclusions

The *Manufacturer* does not warrant this *Product* against normal wear and tear, unauthorised modification or alteration, improper use, improper maintenance, accident, misuse, negligence, damage, or if the *Product* is used for a purpose for which it is not intended or designed.

You should retain this instruction booklet as it forms part of your warranty.

Responsibility

The *Manufacturer* is NOT responsible for the consequences, direct, indirect or accidental, or any other type of damage befalling or resulting from the use of this product.

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Manufacturer and Conformity

This product was manufactured by:

The Schmoolz Company.
Bridge Park, Gosforth,
Newcastle upon Tyne.
NE3 2DX. UK.

All contacts should be directed to:
For additional information visit:

info@schmoolz.com
www.schmoolz.com

Professional instruction on this product's safe use, skills and training, can be sought from the manufacturer. Additionally, Safe Usage Procedure and Risk Assessments, for use by Climbing Wall organisations, are available upon request. All queries and enquiries should be directed to the above contacts.

This product was designed, manufactured and built in England.

This product is a registered design and as such is protected by UK and EU legislation, specifically The Registered Design Rules 2006.

Registered Design Number: 4014549

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Inspection Summary	
Batch Number	
Inspected By	
Date of Inspection	__ / __ / ____
Inspection Results	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/>

Every tool is individually inspected and assembled by hand.

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