



# 109Tools

## Product technology introduction

Applications: Carpenters, DIY Tools, Architectural technicians

SINCE 2010



**109TOOLS**

# Product No.1

## Drywall Multi Tool Gypsum board Multi Knife

Four functions in one tool!  
Sliding automatic locking knife | Tape measure hook groove  
Gypsum board rasp | Jab saw

**The world's first**  
Ground breaking features and design  
Accurate & Fast execution, Neat finish !

**Product name**  
K-100 Drywall multi tool

**Main users**  
Carpenter & Builders  
Drywall installation  
Lightweight cubicle technicians  
Onboard electricians

**How to use**  
For faster drywall installation the tape measure can be hooked up to enable faster accurate cutting. The rasp on the back helps neatly finish edges. The Jab saw makes it easy to cut holes and chamfer corners.

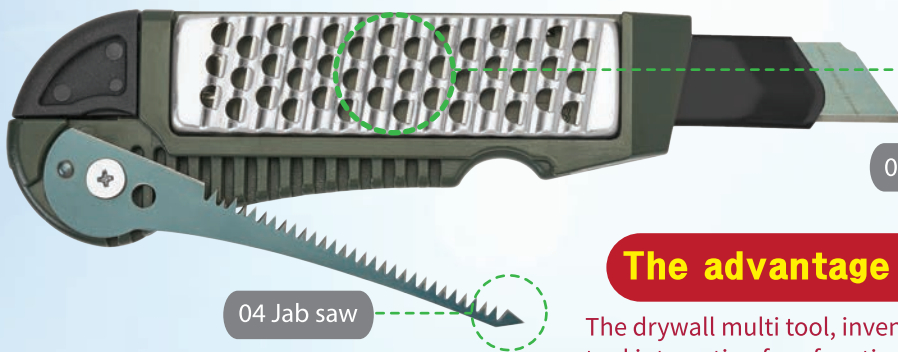


02 Tape measure hook groove

01 Sliding automatic locking knife

**"I am a Pro."**

A practical tool developed by professionals essential for professional installers.



03 Gypsum board rasp

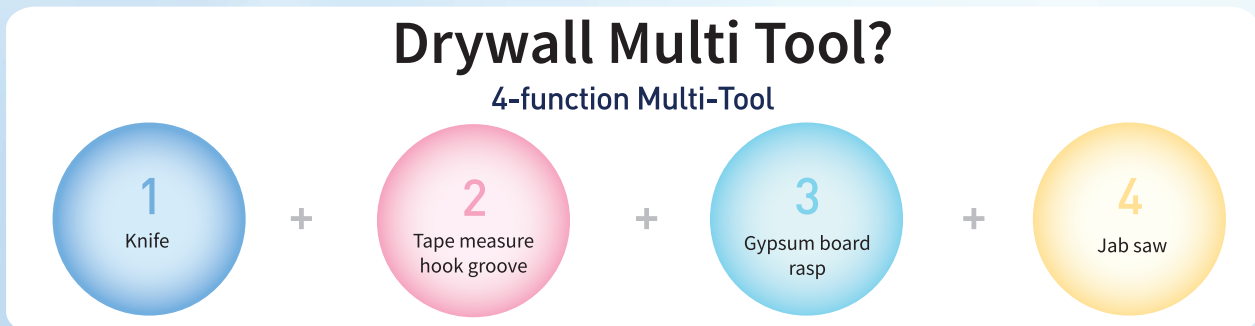
04 Jab saw

### The advantage of Drywall multi tool

The drywall multi tool, invented by 109 Tools, is a world-first specialist tool integrating four functions required for conventional drywall work. This practical tool provides the user with a one-stop tool saving time and money.



Scan the QR code or search 109tools on Youtube to see User's Guide to Drywall multi tool.





# User Guide

## Accurate & Fast execution! Neat finish!

► Directions for using auto lock



Push the stopper smoothly, then release and it will lock automatically.

► Directions for tape measure hook groove use



Hook the tape measure into the tool, draw out to required length and cut.

► Directions for Gypsum board rasp use



Place rasp against any rough lug or edge and pull (see 2 below).

► Directions for Jab saw use



Open the Jab saw out until it self-locks. Press safety button to retract.

### 1 Example of quick cutting with tape measure



### 2 Example of Gypsum board rasp use - Quick smoothing of rough surfaces and lugs.



### 3 Example of Jab saw use - Chamfering, Electrical faceplate holes, Sockets and Lighting holes.



# Product No.2

## Gypsum Board Multi Knife

Drywall Professional Tool  
Aluminum body, heat treated rasp,  
Sturdy and durable, Professional use



5 Position Retractable blade



Easy-change blades



Tape measure hook groove



Gypsum board rasp



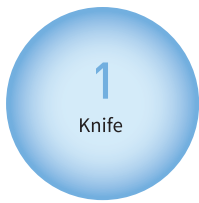
Blade storage



Jab saw



### Gypsum board Multi Knife? 4-function Multi-Tool



+



+



+





# User Guide

►Directions for using auto lock



Press and pull the stopper to automatically lock.

►Directions for tape measure hook groove use



Hook the tape measure into the tool, draw out to required length and cut.

►Directions for Gypsum board rasp use



Place rasp against any rough lug or edge and pull (see 2 below).

►Directions for Jab saw use



Open the jab saw out until it self-locks. Press safety button to retract.

## 1 Example of quick cutting with tape measure



## 2 Example of Gypsum board rasp use - Quick smoothing of rough surfaces and lugs.



## 3 Example of Jab saw use - Chamfering, Electrical faceplate holes, Sockets and Lighting holes.



Product No. 3



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# LM-470 & LS-275 MITER SAW PROTRACTOR Smart Protractor Carpenter tool

109Tools Miter saw protractor can rotate 360° to measure and find any internal or external angle. Suitable for most materials or surfaces. The Protractor can provide measurement angle value dimension on the scale and four different miter cut values next to the scale.

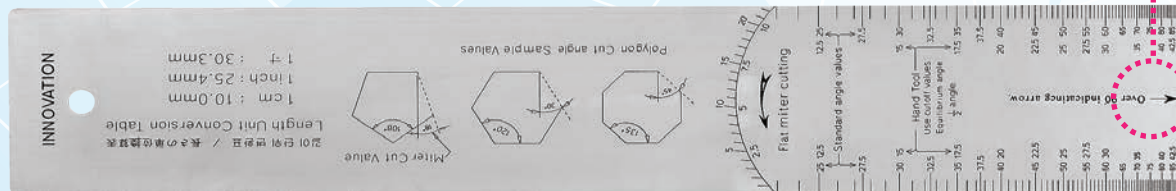
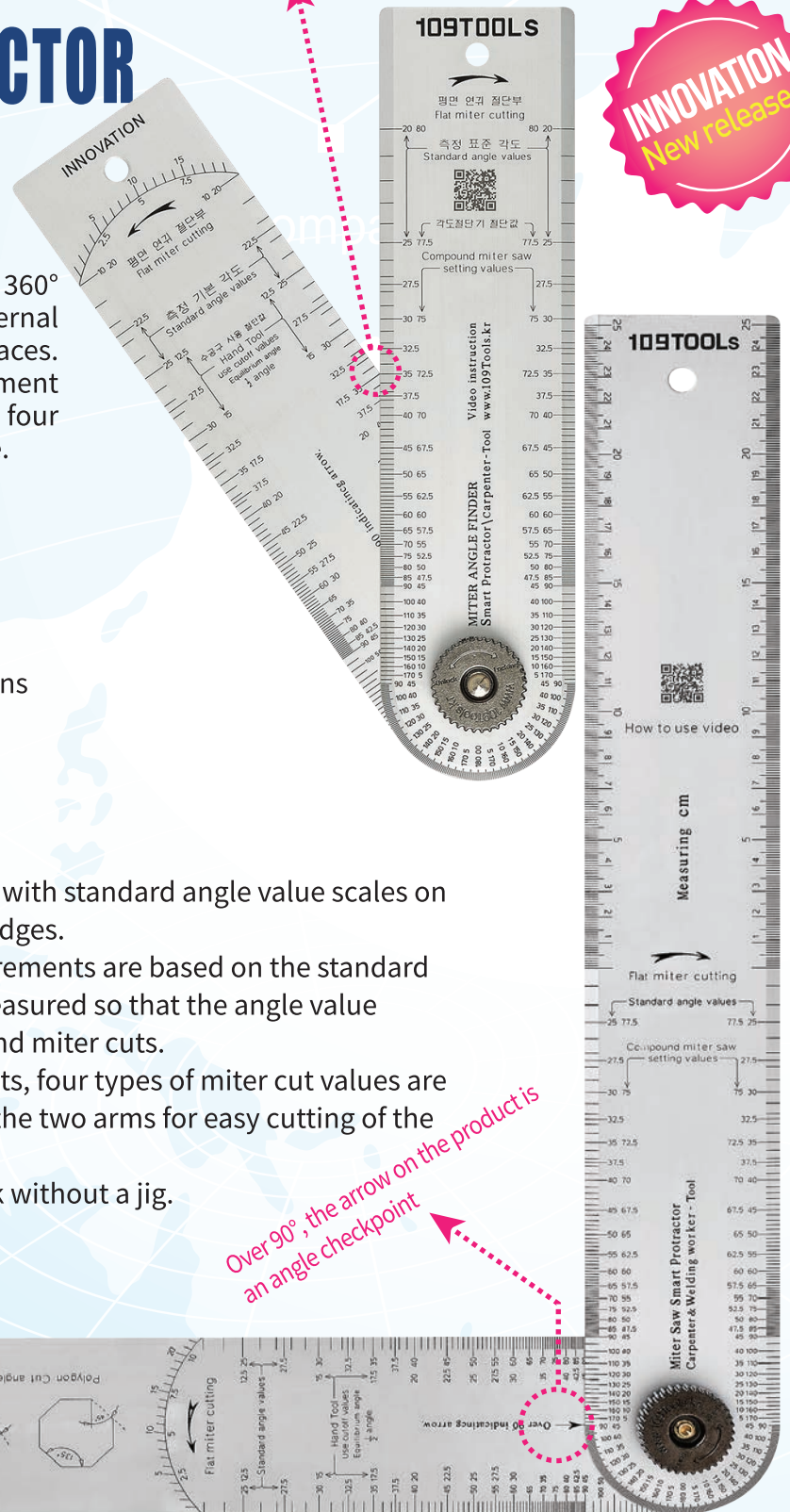
### Useful for

- Carpenters and builders
- Construction engineers
- Steel frame and plant engineers
- Furniture designers, Woodworkers, Artisans
- Costume designers
- DIY tool users

### Features

109Tools Miter saw protractor is equipped with standard angle value scales on both sides of the arms, and left and right edges. These scale graduations and slope measurements are based on the standard angle notation scale. Angles (Miter) are measured so that the angle value can be cut flat as well as perform compound miter cuts. In order to provide ease of use for miter cuts, four types of miter cut values are indicated in two rows that are marked on the two arms for easy cutting of the measured angle to the grid. Easily perform accurate miter cutting work without a jig.

Less 90°, Intersecting tick point the angle checkpoint



Professional develop company of the practical values of tools



# Examples of carpentry use

## Handy tool for anomalous angle work

Provides flat miter cut angles / Cosine values for molding without a jig / Carpenter tools  
Woodwork / Steel frame and sheet  
Crown moldings model type





# Examples where useful

Useful for any steel and panel work, plumbing and sheet metal, inspection



**Polygon Marking**



**Oxygen cutting**



**Polygon cutting operation**



**Existing Method**



**Pipe angles Checking**



**Sandwich panel cutting**



**Easy to mark and check angle**



# Understanding existing technologies

## Why Miter Saw Protractor?

Why have we invented the Miter saw protractor?

We noticed that angular values marked on a international standard protractor are different from angular dimensions marked on the compound miter saw tray. Therefore the user of the compound miter saw can be confused by mismatching the cut-off values.

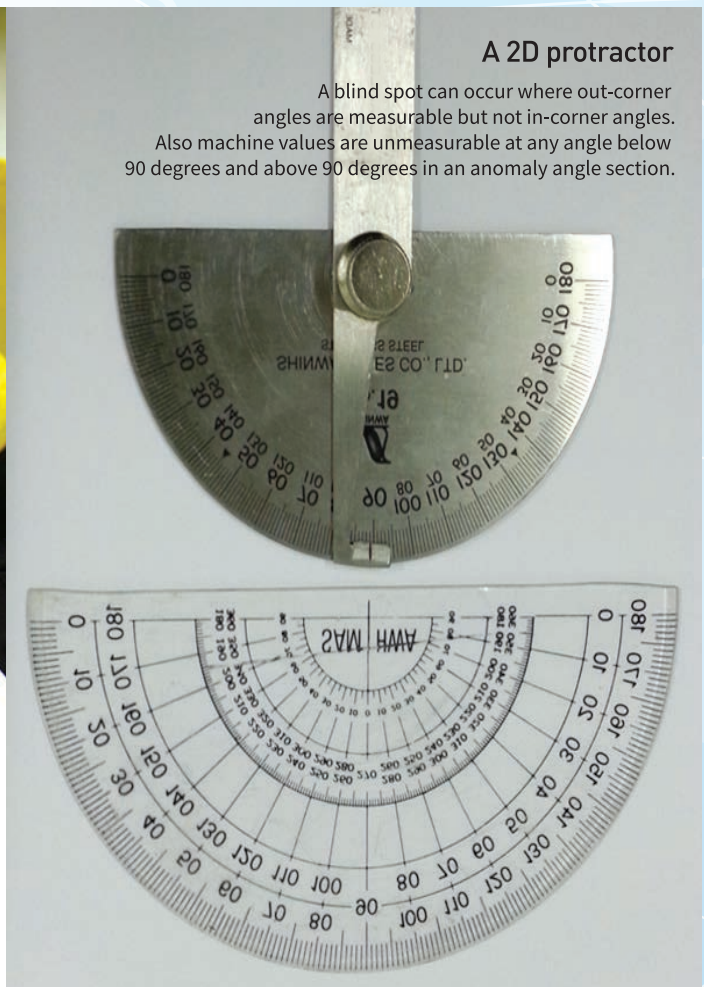
So we've developed a Miter saw protractor that uses the angle value of the protractor in the right picture and the angle value in the compound miter saw in the left picture to extract the math and display the four miter cut values.



Bevel saw  
Compound miter saw cutting values



Miter cut values

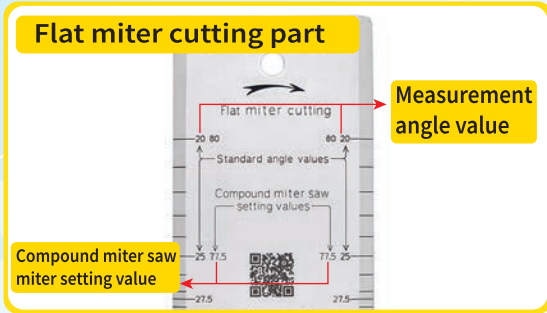


### A 2D protractor

A blind spot can occur where out-corner angles are measurable but not in-corner angles. Also machine values are unmeasurable at any angle below 90 degrees and above 90 degrees in an anomaly angle section.

# Usage examples

## Standard angle values part



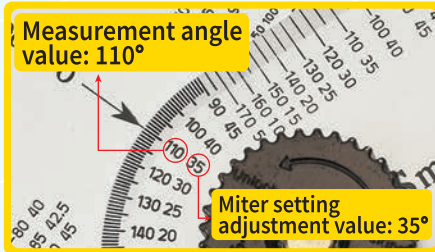
### Using Compound Miter Saw (Flat)

Adjust the saw angle to the angle indicated on the inner arm, tighten and cut.

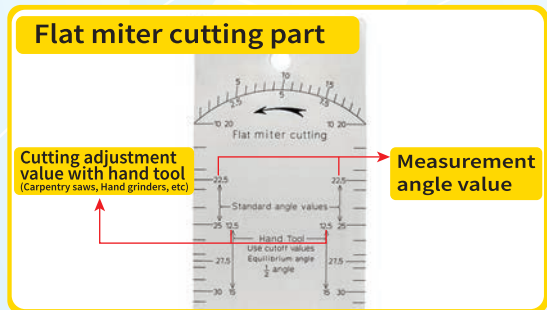
1



2



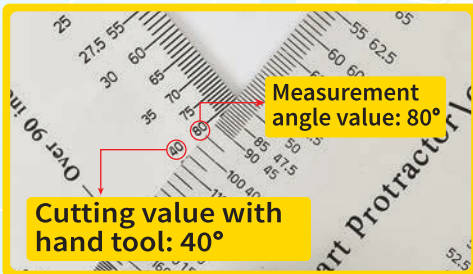
3



### Using hand tools (Flat)

When using carpenter saw, angle grinder etc, measure corners of cutouts by retracting Miter saw protractor. Set to Standard Angle Values, place on material, measure and tighten locking nut. Mark the lines and cut.

1



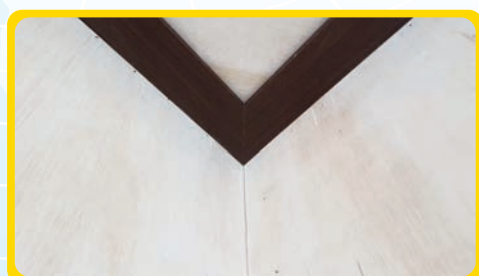
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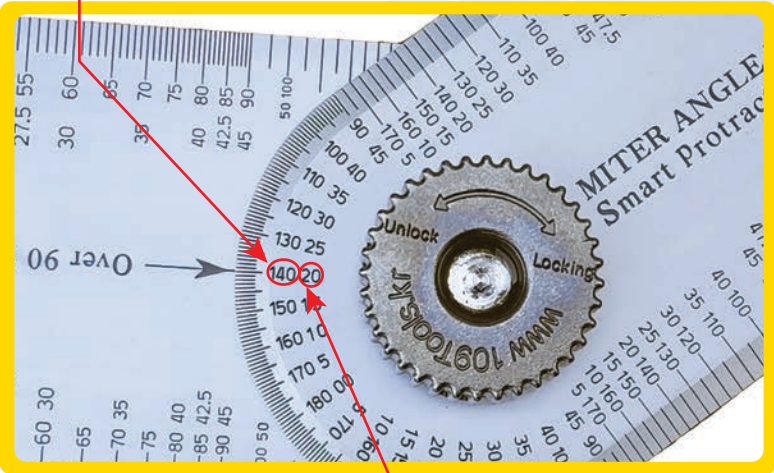




# Usage examples

Measure the angle by spreading the two arms out to either side.

This photo shows a 140° angle measurement.



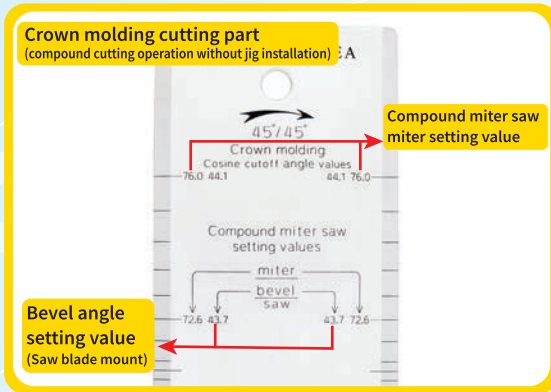
With a miter saw jig installed, the cut value for a 140° angle is 20°, as indicated by the number (20) directly next to the angle measured by the protractor (140). In this case, simply set your miter saw to 20°.



# Usage examples

## Cosine angle part

Home

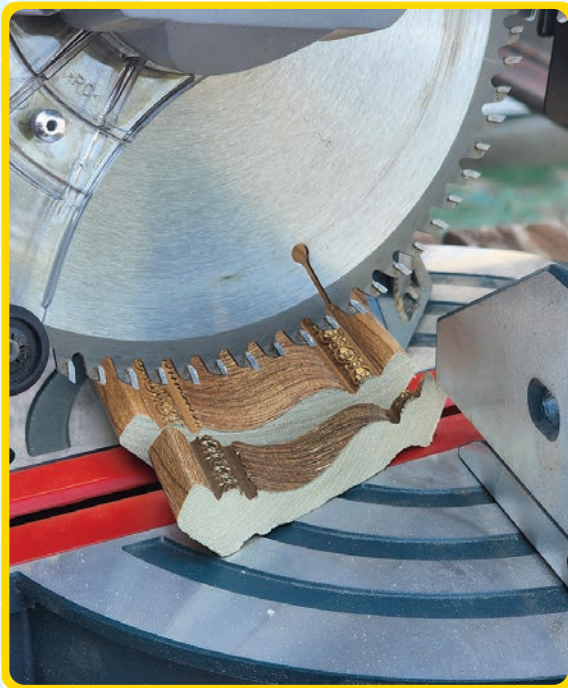


### Crown Molding (Oblique angle)

When working with interior (crown) molding, you can cut easily and quickly using cosine angle cutting value data of the crown molding cut. There are two types of miter angle cutting values for crown molding: 1) at 45°/45° and 2) at 38°/52°, which are shown in the two lines next to the scale.

The cutting value indicated by the “miter” arrow next to the scale is the cutting value that adjusts the angle of the workpiece as indicated on the compound miter saw tray on a compound miter saw. The cutting value indicated by the “saw” arrow is the cutting value that adjusts the angle of the saw blade portion of the compound miter saw.

By adjusting the angle of the saw blade and the tray to the cutting value of the crown molding cut (Bevel), the crown moulding can be placed on the saw’s tray flat without use of a jig so that the diagonal articulation by the cosine value can be done with ease.

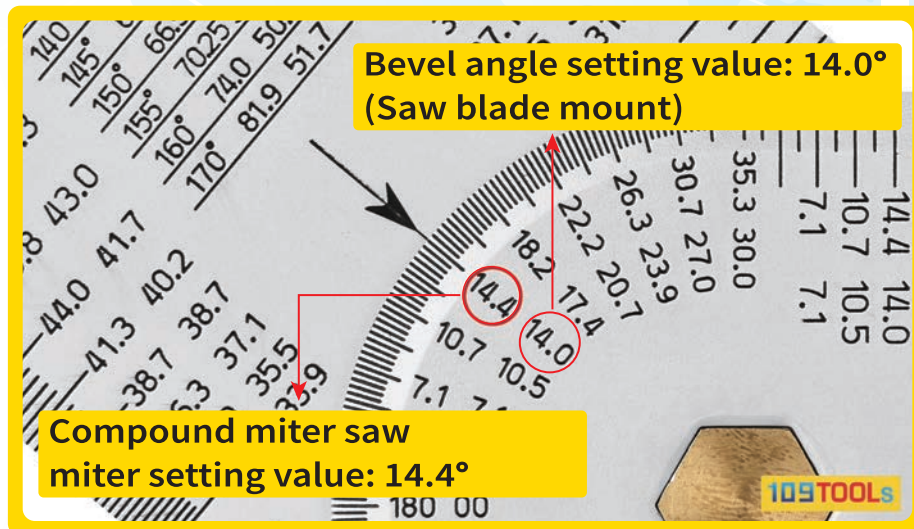


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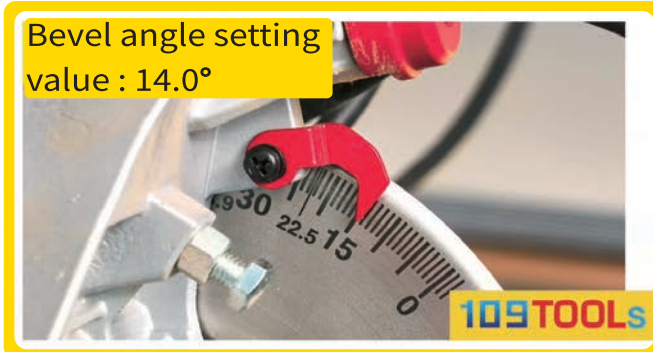


# Usage examples

To cut crown molding bevel angles without installing a jig on a miter saw table, with the protractor held in place (by turning the nut), turn it over to see the reverse side and check the measurements indicated by the arrow. In the case of a  $140^\circ$  angle, the arrow points to  $14.4^\circ$  and  $14.0^\circ$ .



In this case, adjust the miter saw table angle to  $14.4^\circ$  and the bevel angle to  $14.0^\circ$ . Place the crown molding flat on the table (after double-checking whether this is to be a right- or left-side cut) and make your cut.



# Drywall Professional Tools

Home

## Drywall Multi Tool K-100



### Offline Packaging



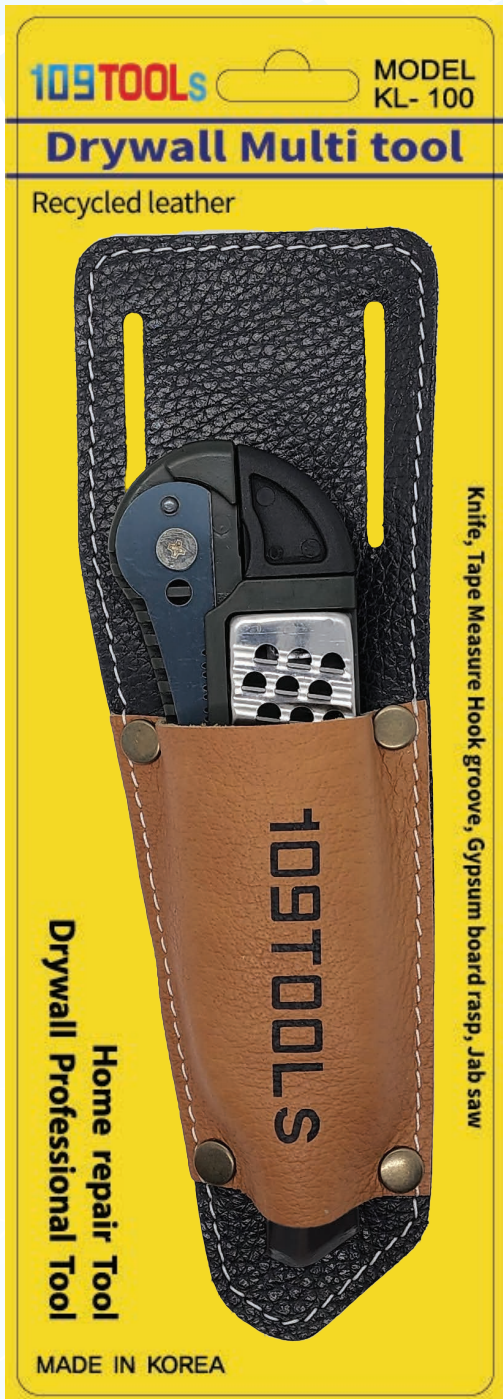
### Online Packaging

	Model No.	Blade width	Length	Case	Carton	Master Carton
Online	K - 100	18 mm	178 mm	1		100
Offline	K - 100	18 mm	178 mm	1	10	120



# Drywall Professional Tools

## Leather Holster KL-100



### Offline Packaging



### Online Packaging

	Model No.	Blade width	Length	Case	Carton	Master Carton
Online	KL - 100	18 mm	243 mm	1		90
Offline	KL - 100	18 mm	243 mm	1	10	80

# Gypsum board multi knife

## Gypsum board multi knife K-300



### Offline Packaging

## Ruxury Tool

Highly durable tool



### Online Packaging

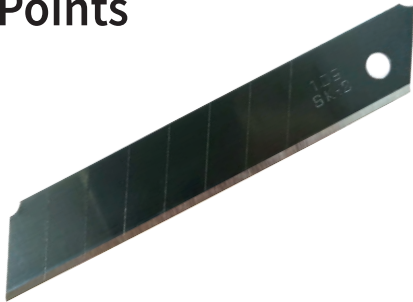
	Model No.	Blade length	Length	Case	Carton	Master Carton
Online	K - 300	61 mm	175 mm	1		80
Offline	K - 300	61 mm	175 mm	1	10	80



# Replacement blades

## SK-2 Snap-off Blades Z-109

7-Points



- Highest quality POSCO SK-2 steel.
- Ultra precise austempering hone.
- Super-hardened durable blade. (0.5T)
- Excellent cutting.

Model No.	Blade width	Length	Case	Carton	Master carton
Z - 109	18 mm	100 mm	10	100	2000

## Replacement Jab saw KS-100

- Austempered steel SK-5 high carbon.



※ Use Jab saw for drywall only, may break with wood.



Model No.	Thickness	Length	Case	Carton	Master carton
KS - 100	1.2 T	110 mm	5	100	400

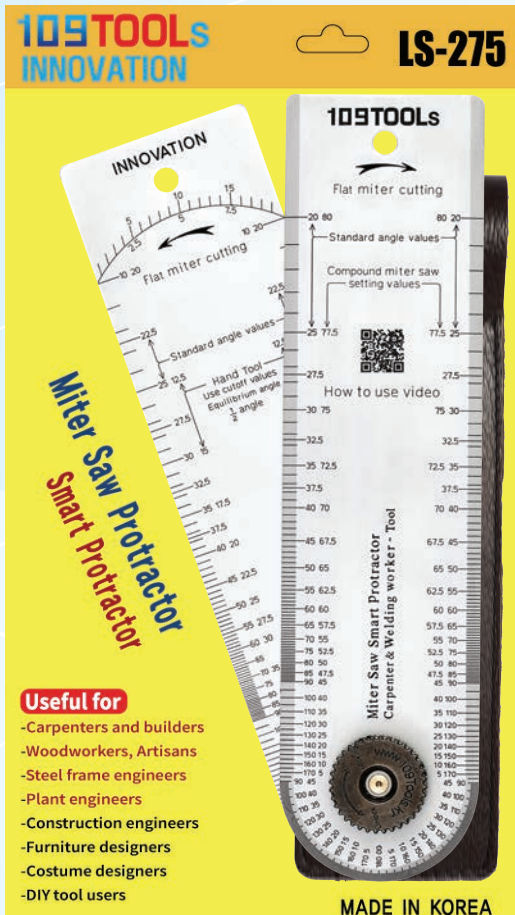
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Ruxury Tool

Highly durable tool

# MITER SAW PROTRACTOR (Smart Protractor) LS-275



## Offline Packaging

## Online Packaging

- For semi-professionals.
- Moulding professional tool.
- Compact foldable tool.
- Heat treated aluminum.
- Includes natural leather pouch.



	Model No.	S I Z E		Carton	Master Carton
		Folded	Unfolded		
Online	LS - 275	275 mm	485 mm		50
Offline	LS - 275	275 mm	485 mm	15	60



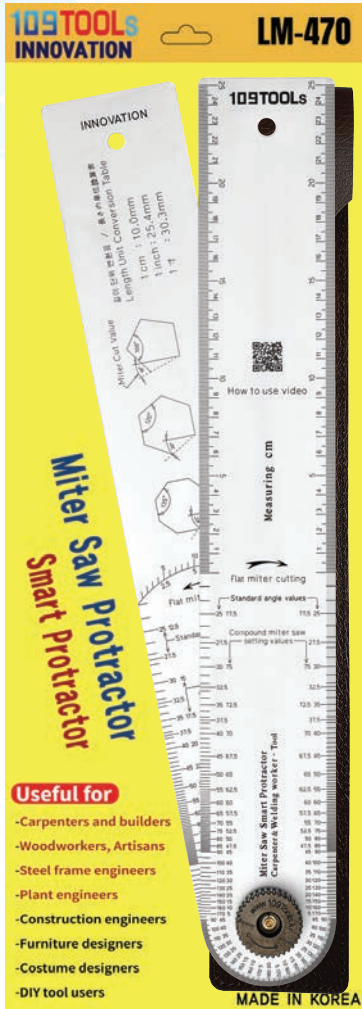
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Ruxury Tool

Highly durable tool

# MITER SAW PROTRACTOR (Smart Protractor) LM-470



Offline Packaging



Online Packaging

- For professionals.
- Moulding professional tool.
- Available in cm and inch.
- Angle identification, Angle marking.
- Heat treated aluminum.
- Includes natural leather pouch.



	Model No.	S I Z E		Carton	Master Carton
		Folded	Unfolded		
Online	LM - 470	470 mm	865 mm		36
Offline	LM - 470	470 mm	865 mm	15	30





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