

# BEVEL R

## 5 AXIS COMPACT BEVEL UNIT

Precision Bevelling with Unmatched Efficiency



# BEVEL R<sup>®</sup>

The Bevel-R<sup>®</sup> is a dynamic 5-axis plasma cutting solution, delivering precision and versatility for contour bevel profiles and weld preparations

## Wide Bevel Angle

The bevel angle ranges from +45° to -45°

## High Power & Precision

AC servo drives ensure optimal performance, precision, and low maintenance

## Easy TCP Setup

Simple setup of Tool Centre Point (TCP) after consumable changes

## Collision Protection

Integrated magnetically positioned torch holder enables quick, easy torch alignment

## Machine Compatibility

Available with Omnimat, MultiTherm<sup>Pro</sup>, and Element 400 systems

## Fast Adjustment

Adjustment from 0° to 45° in less than 2 seconds

## Versatile Integration

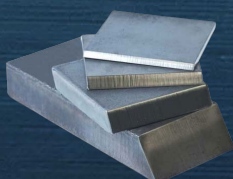
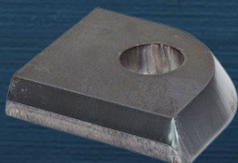
280 mm stroke enables compatibility with other cutting processes on the same machine

## Torch Height Regulation

Arc voltage measurement guarantees bevel part cutting accuracy

## Nozzle Contact Technology

Initial stand-off established by nozzle contact, eliminating offset movement and reducing cycle times while improving accuracy





BEST IN CLASS TECHNOLOGY FOR BEVEL CUTTING

# CAD CAM ON PROFESSIONAL LEVEL



**OMNIWIN**  
Ideal For Work Preparation

Omniwin is a powerful, user-friendly design and nesting software for CNC cutting. It optimizes oxyfuel, plasma, and laser cutting, saving time, materials, and costs. Ideal for both small-scale and just-in-time production, it streamlines custom cutting with efficiency and precision

Our solution provides unparalleled transparency in operations management, enhancing production planning and control

**OPTION BEVEL**  
The Tool For Bevel Cutting

Option Bevel delivers precise bevel cutting with an intuitive interface and post-processor module. It ensures accurate cuts, bevels, and holes, offering flexibility to adjust parameters for customizable tasks

Parameter	Specification
General Tolerances	
Maximum Bevel Angle	45°
Variants in Bevel Cut	V,Y,X,K
Angle Tolerance	±2°
Tolerance on Land Thickness	±1.6 mm
Y Bevel	
Minimum Thickness for YDS/YAS Cut	10 mm
Minimum Land Height for YDS/YAS Cut	3 mm
V Bevel	
Minimum Thickness for VAS/VDS Cut	6 mm
X Bevel	
Minimum Thickness for X Cut	12 mm
K Bevel	
Minimum Thickness for K Cut	16 mm



# CREATING SOLUTIONS BEYOND MACHINES

## What we stand for

Messer Cutting Systems is a global supplier of cutting edge technology for the metalworking industry.

With over 900 employees worldwide in over 50 countries, we maintain a constant dialogue with our customers to achieve sustainable user-oriented innovation.

Our portfolio embraces the themes PRODUCT, DIGITAL, SERVICES, AUTOMATION and KNOW-HOW. We will live up to our claim "creating solutions beyond machines" not just with the most modern cutting systems and solutions for oxyfuel technology.

Appropriate services and training, our own software applications as well as the integration of solutions from our technology partners, e. g. in the field of automation, complete the machine to give forward-looking total solutions.

Our know-how combined with our customer-oriented attitude and actions have made us the worldwide partner of choice for innovative total solutions on all aspects of cutting systems for over 120 years.

PRODUCT

AUTOMATION

DIGITAL

SERVICES

KNOW-HOW

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THE MESSER  
EXPERIENCE

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