



# Bevelling system UZ50 TRIUMPH

Maximum bevel width 62 mm / 2.44 in. Automatic feed.

# UZ50 Triumph



3D adaptive system

**3** BEVELERS  
IN ONE



Remote control can be operated hand-held or clamped to the machine

Cutter powerful engine - 4000 W

Quick connect machine system

Rotary mechanism allows to perform two-sided bevelling without a need for material handling.

3D adaptive system compensates for inequality of floor and allows for the adjustment of machine position according to the situation at workplace.

Height adjustment of the machine position.

Dual system of synchronized feed units

Art. Nr. 1940 (3 Phase - 400 V)  
Art. Nr. 1952 (3 Phase - 480 V)  
Art. Nr. 1953 (3 Phase - 220 V)



Thousands of satisfied customers throughout the world





Bevelling system UZ50 Triumph is another of the series of unique solutions developed by N.K.O Machines. In this case, de facto three bevelling systems are implemented in a single machine.

Thus, UZ50 Triumph can be used at first as a mobile beveller which travels along the material to be machined at speeds up to 1.2 m/min / 3.93 ft/min. and does machining at an angle of 15° - 50°. Secondly, it is possible to rotate the entire machining unit upside down and create bevells for X and K welds without the need for handling the machined material. This application is made possible by the rotary mechanism of the 3D manipulator, which is a standard machine equipment. Finally, the third form of the machine is the ability to rebuild it for a stationary beveller (with the help of special equipment UZP 30) intended for the processing of smaller parts with a minimum length of the bevel edge of 200 mm / 8.19 in.

The UZ50 machine works on the principle of metal cutting and thanks to the ability to set the optimum cutting conditions, the machine is capable of machining otherwise difficult materials such as stainless steel, Hardox, Weldox and Domex. And of course, it can be also used for bevelling conventional steel.

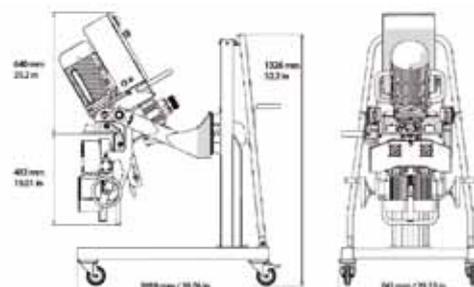
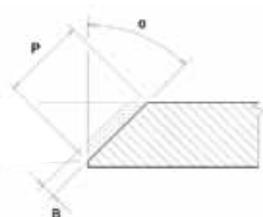
In the standard execution the machine is equipped with the unique 3D manipulator that is thanks to the 3D adaptive system function able to adjust the position of the machine to the material being worked according to the current situation at workplace thus eliminating any unevenness of the machined metal sheet or working floor. Of course, there is the possibility to rotate the machine by 180° vertically or reconfigure it.

Thanks to the quick-connect, function the UZ50 TRIUMPH machine can be repeatedly disconnected and connected to the 3D manipulator in a few seconds.

- Automatic feed with continuous adjustment of the feed rate in the range of 0 - 1,2 m/min. / 0 - 3.93 ft/min.
- High speed milling tool equipped with cutting tips with extended life.
- The variable adjustment of the desired angle in the range 15°-60 ° without having to replace any parts.
- All electronic equipment is closed in the dust-tight cabinet with increased vibration resistor
- The machine is equipped with the latest safety features.
- The possibility to buy ASP – active intelligent protection.
- The machine cuts problematic materials - e.g., stainless steel, Hardox, Weldox a Domex

**Technical data:**

Max. bevel width:	62 mm / 2.44 in
Adjusting the bevel angle:	15° - 60° (continuous)
Material thickness:	7 to 80 mm / 0.27 to 3.15 in
Motor of cutting head:	4000 W
Feed speed:	0 - 1,2 m/min. / 0 - 3.93 ft/min.
Weight:	175 kg / 385.8 lb
Dimensions:	1010 x 745 x 1326 mm
	39.76 x 29.33 x 52.2 in
Number of cutting tips	5 pcs



bevel angle $\alpha$	max. width of the bevel (P)
15°	62 mm / 2.44 in (recommended in 3 cuts)
20°	62 mm / 2.44 in (recommended in 4 cuts)
25°	56 mm / 2.2 in (recommended in 4 cuts)
30°	52 mm / 2.04 in (recommended in 5 cuts)
35°	51 mm / 2 in (recommended in 5 cuts)
40°	51 mm / 2 in (recommended in 5 cuts)
45°	50 mm / 1.97 in (recommended in 5 cuts)
50°	51 mm / 2 in (recommended in 5 cuts)
55°	51 mm / 2 in (recommended in 5 cuts)
60°	52 mm / 2.04 in (recommended in 5 cuts)

B=max. 5 mm / 0.2 in (1 cut)

**Included in the price:**

- Bevelling system UZ50 TRIUMPH Operation tools
- Instruction manual

**Machine name:**

	Art. Nr.
Bevelling system UZ50 TRIUMPH - including 3D manipulator (3 Phase - 400 V)	1940
Bevelling system UZ50 TRIUMPH - including 3D manipulator (3 Phase - 480 V)	1952
Bevelling system UZ50 TRIUMPH - including 3D manipulator (3 Phase - 220 V)	1953

**Accessories:**

	Art. Nr.
Cutter head ECO 5 teeth	1946
Cutting tip (pack 10 pcs)	1945
Cutting head PREMIUM 9 teeth	1943
Cutting tip HARDOX (pack 10 pcs)	1955
Vertical guide tip for adjusted for HARDOX bevelling and other wear-resistant materials	1949
ASP active, intelligent machine protection against overload	1956
UZP 30 additional table for processing small pieces	1942
Screw for the inserts	1947

**ASP - Active intelligent machine protection against overload**

It is a system monitoring immediate machine load and machining conditions.

If the ASP system detects overload of the machine for reasons of tool wear, too high feed rate, or improperly adjusted machine, the ASP system informs the operator of this fact actively by flashing lights on the remote control.

If the operator fails to do steps leading to reduce load on the machine within 20 seconds (resizing removal, replacement of cutting tips, reducing speed), the system disconnects the supply of feed wheels and the machine stops. Beware, the system does not protect against the shock overload! The ASP system only is available for purchase as an accessory with a new machine.



Art. Nr. 1946



Art. Nr. 1943



Art. Nr. 1945



Art. Nr. 1955



**Bevelling system UZ50 TRIUMPH + UZP 30 set**  
 Maximum bevel width 40 mm / 1.57 in. Automatic feed.

# UZ50 Triumph

## + UZP 30 set



**3 BEVELERS  
IN ONE**



**set UZ 50 TRIUMPH + UZP30**

Hardened working desk

Storage area for remote control

Storage area for remote control

Supporting structure of the desk UZP30

Art. Nr. 1941 (3 Phase - 400 V)  
 Art. Nr. 1954 (3 Phase - 480 V)  
 Art. Nr. 1957 (3 Phase - 220 V)



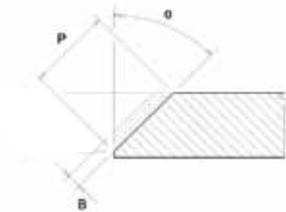


The UZP 30 product, using which we can turn the machine UZ50 TRIUMPH into the stationary beveling station for processing smaller workpieces or narrow strip material, can be purchased separately or in a set with the machine UZ50 TRIUMPH. Of course, the machine redesigned in this way retains all the advantages of UZ50 TRIUMPH and thus can be used for machining difficult materials such as stainless steel, Hardox, Weldox and Domex. Of course, it can also be used for beveling conventional steel. The minimum edge length of the bevelled material must be at least 200 mm / 7.87 in.

- The product is intended for use with the machine UZ50 Triumph.
- The variable adjustment of the desired angle of 20° - 60° without having to replace any parts.
- The product allows beveling small size workpieces that are inserted directly into the machine. The whole machining process is then automatic without having to hold the workpiece.
- The machine is equipped with the latest safety features.
- Possibility to buy ASP – active intelligent protection.
- The machine cuts problematic materials - e.g., stainless steel, Hardox Weldox and Domex.

**Technical data:**

Max. bevel width: 40 mm / 1.57 in  
 Adjusting the bevel angle: 20° - 60° (continuous)  
 Material thickness: 7 to 70 mm / 0.27 to 2.75 in  
 Cutting head motor: 4000 W  
 Feed speed: 0 - 1,2 m/min. / 0 - 3.93 ft/min.  
 Weight: 202 kg / 445 lb  
 Dimensions: 1010 x 745 x 1326 mm  
 39.76 x 29.33 x 52.2 in  
 Number of cutting tips 5 pcs

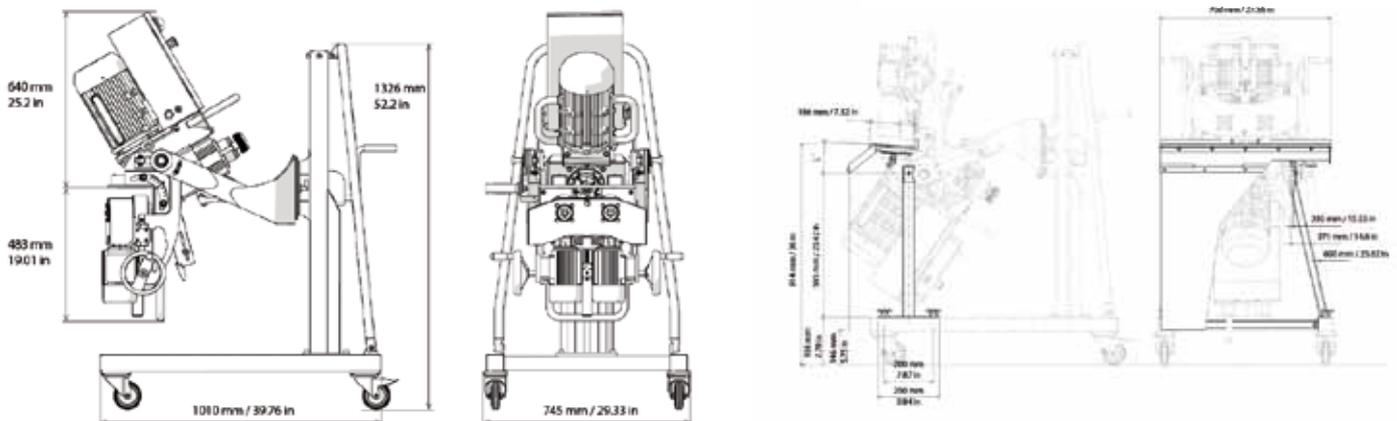


bevel angle $\alpha$	max. bevel width (P)
20°	12,7mm / 0.5 in (recommended in 2 reductions)
25°	16,7mm / 0.65 in (recommended in 2 reductions)
30°	19,5mm / 0.76 in (recommended in 2 reductions)
35°	20,5mm / 0.8 in (recommended in 2 reductions)
40°	22mm / 0.86 in (recommended in 3 reductions)
45°	28mm / 1.10 in (recommended in 3 reductions)
50°	31mm / 1.22 in (recommended in 5 reductions)
55°	34,8mm / 1.33 in (recommended in 5 reductions)
60°	40mm / 1.57 in (recommended in 5 reductions)

B=max. 4mm / 0.15 in (1 reduction)

**Included in the price:**

Beveling system UZ50 TRIUMPH + UZP30 set  
 Transport wooden box  
 Operation tool



**Machine name:**

	Art. Nr.
Beveling system UZ 50 TRIUMPH (incl. 3D manipulator) + UZP 30 set (3 Phase - 400 V)	1941
Beveling system UZ 50 TRIUMPH (incl. 3D manipulator) + UZP 30 set (3 Phase - 480 V)	1954
Beveling system UZ 50 TRIUMPH (incl. 3D manipulator) + UZP 30 set (3 Phase - 220 V)	1957

**Accessories:**

	Art. Nr.
Cutting head PREMIUM 9 teeth RECOMMENDED when using UZP30!	1943
Cutting tip (10 pcs pack)	1945
Cutting tip HARDOX (10 pcs pack)	1955
Vertical guide plate adapted for beveling HARDOX and other wear-resistant materials	1949
ASP active, intelligent machine protection against overload	1956
Screw for the inserts	1947



Art. Nr. 1943



Art. Nr. 1945



Art. Nr. 1955