

# UZ50 Triumph



3D adaptive system

**3 BEVELERS  
IN ONE**



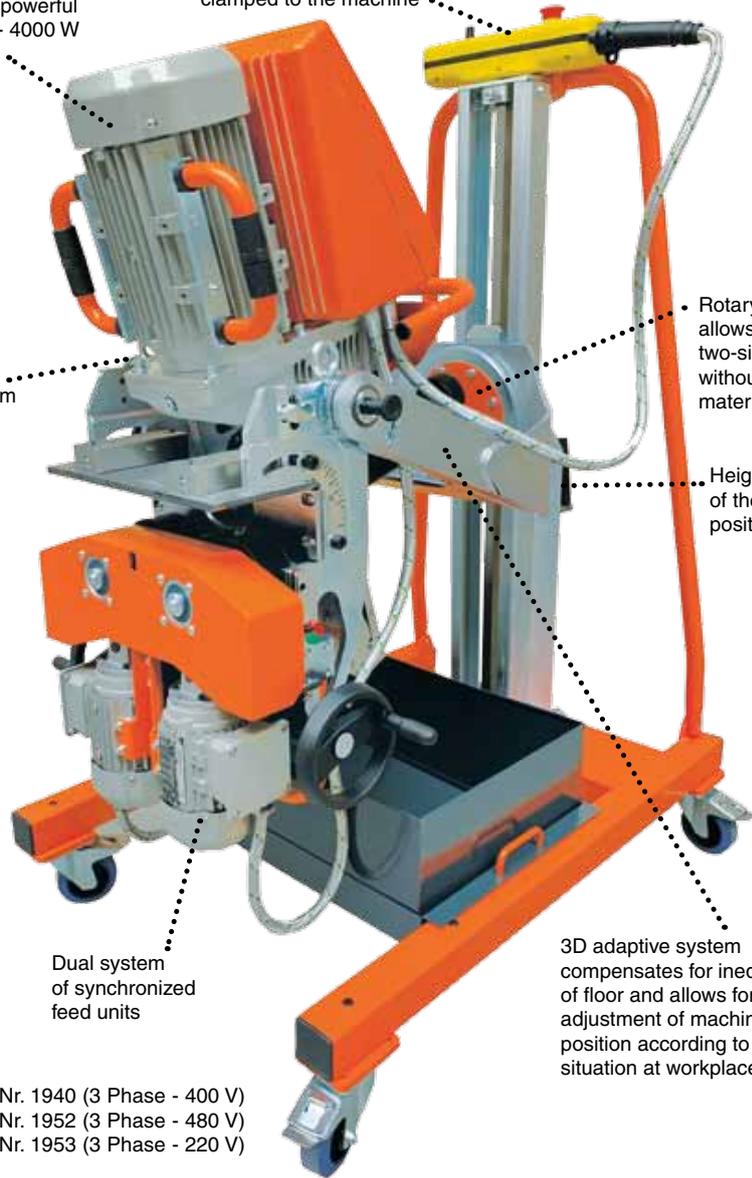
Cutter powerful motor - 4000 W

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

Quick connect machine system

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

Height adjustment of the machine position.

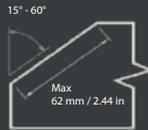


Dual system of synchronized feed units

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

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





Bevelling system UZ 50 Triumph is another of the series of unique solutions developed N.KO Machines. Basically, three bevelling systems are combined in a single machine. UZ50 Triumph can be used as a mobile beveller, which moves along the beveled material at the speed up to 1.2m/min, 3.93 ft/min. The range of the beveling angle is 15°-50°. In addition, it is possible to flip the entire machining unit upside down and create bevels for X and K form of the welds without handling machined material. This application is made possible by the rotary mechanism of the 3D manipulator, which is a standard machine equipment. Finally, the machine can be rebuilt for a stationary beveller with a special equipment UZP 30. This mode is intended for processing smaller parts with a minimum length of the bevel edge 200mm, 8.19 in.

Adjustable cutting conditions enable the UZ50 to machine otherwise difficult materials like stainless steel, Hardox (armored steel), Weldox and Domex on top of mild carbon steel.

3D manipulator allows to adapt UZ50 for any unevenness or deformations in the length of machined material. It also allows to work on uneven floor.

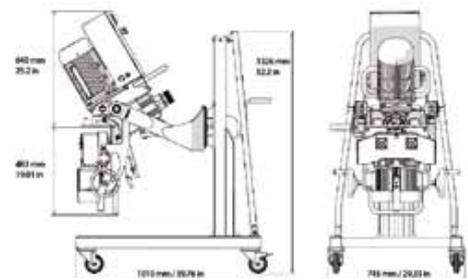
If needed it is possible to disconnect the UZ50 from the manipulator completely due to the quick-connect function within few seconds and use the UZ50 separately.

- 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 inserts 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 resistance
- Equipped with the most modern safety features
- The possibility to buy ASP – active smart protection
- The machine cuts problematic materials - e.g., stainless steel, Hardox, Weldox a Domex
- Packed in a wooden crate

**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 inserts	5 pcs

**Included in the price:**  
Bevelling system UZ50 TRIUMPH.  
Tools for an operator.  
User manual.

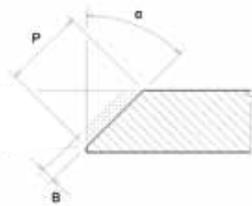


bevel angle Q

max. width of the bevel (P)

15°	62 mm / 2.44 in (recommended in 3 passes)
20°	62 mm / 2.44 in (recommended in 4 passes)
25°	56 mm / 2.2 in (recommended in 4 passes)
30°	52 mm / 2.04 in (recommended in 5 passes)
35°	51 mm / 2 in (recommended in 5 passes)
40°	51 mm / 2 in (recommended in 5 passes)
45°	50 mm / 1.97 in (recommended in 5 passes)
50°	51 mm / 2 in (recommended in 5 passes)
55°	51 mm / 2 in (recommended in 5 passes)
60°	52 mm / 2.04 in (recommended in 5 passes)

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



**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.
ECO Cutter head 5 inserts (Insert´s screw included)	1946
ECO Cutting inserts (pack of 10 pcs)	1945
PREMIUM Cutting head 9 inserts (Insert´s screw included)	1943
PREMIUM Cutting inserts (pack of 10 pcs)	1955
Plate fence 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
Bevelling Solver - a portable calculator for cutting calculations for N.KO Machines (see page 44 - 45)	1900

**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 is only available for purchase as an accessory with a new machine.



Art. Nr. 1946



Art. Nr. 1943



Art. Nr. 1945



Art. Nr. 1955



Art. Nr. 1900



**Bevelling system UZ50 TRIUMPH + UZP 30 set**  
 Maximum bevel width 30 mm / 1.18 in. Automatic feed.

# UZ50 Triumph

## + UZP30 set



**3 BEVELERS  
IN ONE**



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

