Electromechanical Pipe Cutting Tool NT-RS 100

Novartec AG

Introduction

The newly designed Novartec tool provides following advantages to cut stainless steel and copper pipes:

- User friendly with ergonomic design and comfortable size
- Light weight for flexible usage
- Defined smooth and continuously adjusting pressure on the pipe throughout the entire cutting process avoiding the risk for deformation of the pipe
- Burr free edges
- Right-angled cut
- Long lasting cutting wheels
- Economical due to improved efficiency with reduced cycle time for cutting process
- Safe to handle with in-built control mechanism
- Reliable also for pipes installed close to walls (e.g. renovation)
- Dry cut with zero risk of lubricants damaging the o-ring in the fitting
- Suitable for use in workshop and on construction site
- System for quick and easy exchange of cutting head
- Applicable up to diameter of 108 mm
- Up-grade available for other applications and pipe materials

Technical Data

Motor:

• Voltage / Frequency	230V / 50Hz
• Alternative	115V / 60 Hz
• Power Input	350 Watt
• Power Output	210 Watt

Dimensions:

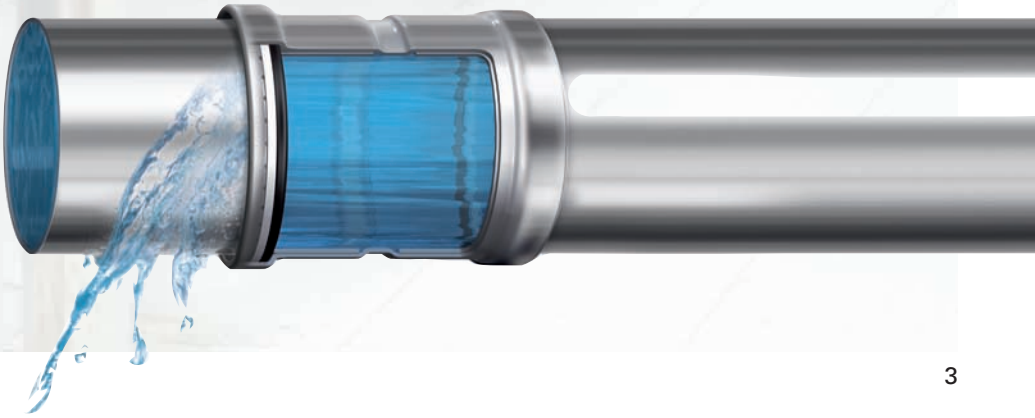
• Length incl. cutting head	434 mm / 454 mm
• Width	74 mm
• Hight	175 mm / 205 mm

Weight:

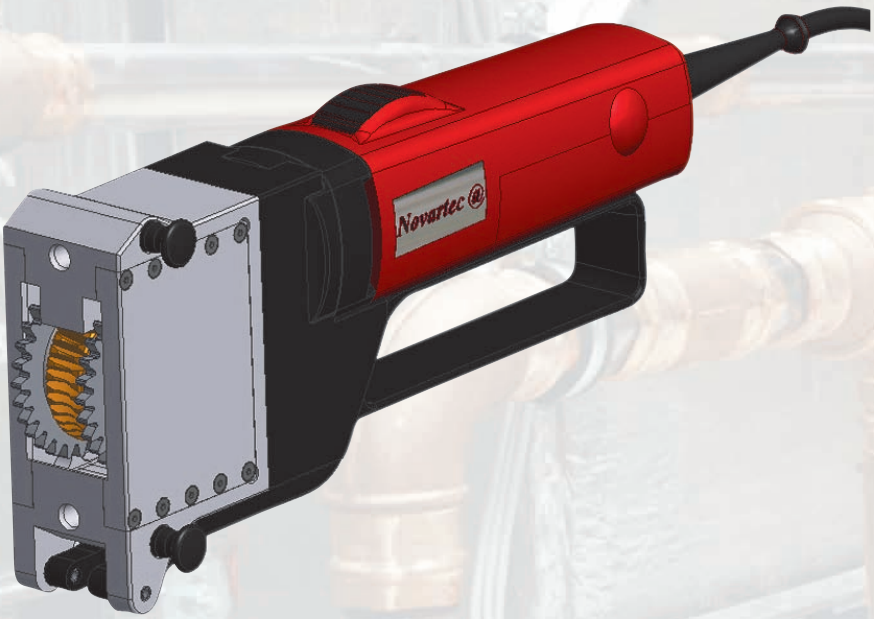
• Power Unit	2,640 Kg
• Cutting Head (NW 54 mm)	2,360 Kg

Working range:

• Max pipe wall thickness	3 mm
• Cutting heads for pipe diameters	42 mm, 54 mm, 65 mm 76.1 mm, 88.9 mm, 108 mm
• Cutting heads in imperial dimension	1 1/2, 2″, 2 1/2″, 3″, 4″



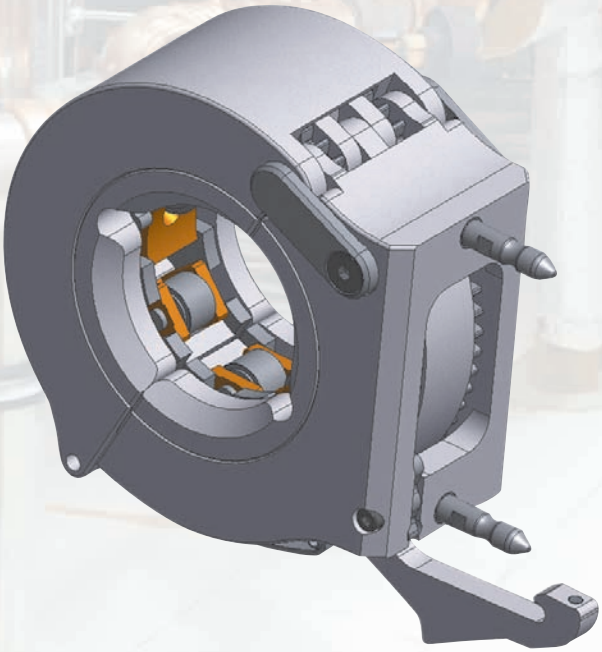
Technical Description



The NT-RS 100 is an easy to handle and very robust tool for your every-day workshop and on site use. The tool is driven by a high performance FEIN electric motor. Rapid and easy changeable cutting heads were a pre-requisite during the design process. The performance of the motor and mechanical gear reduction is laid out to cut stainless steel pipes from 42 mm up to 108 mm in diameter. The base unit can also be used for other applications as burring, chamfering, etc. Tools for those applications are in preparation.

Technical Description

The cutting head (patent registered) can be changed manually without requiring any tools. An electronic unit ensures that the cutting head is correctly locked before the tool starts to work. That guarantees maximum operator safety. The cutting area of the tool has been designed to ensure a safe operation and to protect the operator from any harm.



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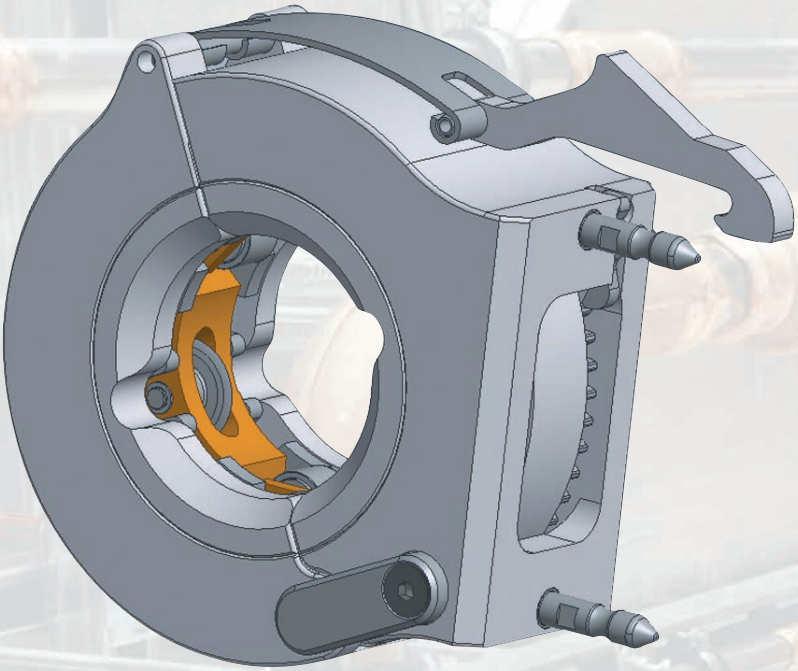
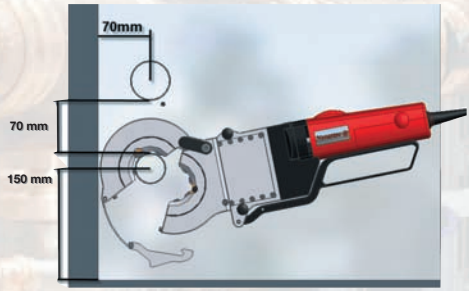
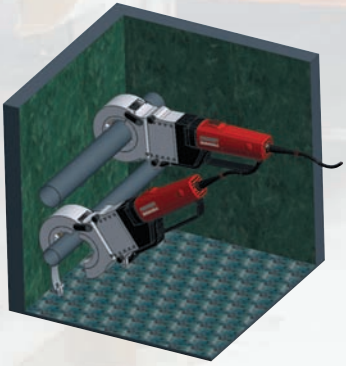


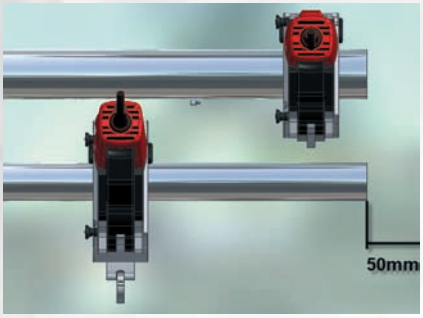
Defined smooth and continuously increasing pressure on the pipe is applied by spring embedded cutting wheels throughout the entire cutting process. This ensures that no deformation on the pipe can occur during the cutting process. With the cutting ring being the spinning part, even installed pipes for e.g. repairs can be cut. The clamping of the pipe is done very easily without requiring any special force. The embedment and high quality plating do guarantee a long life. The construction of the cutting head allows making very precise and narrow cuts.

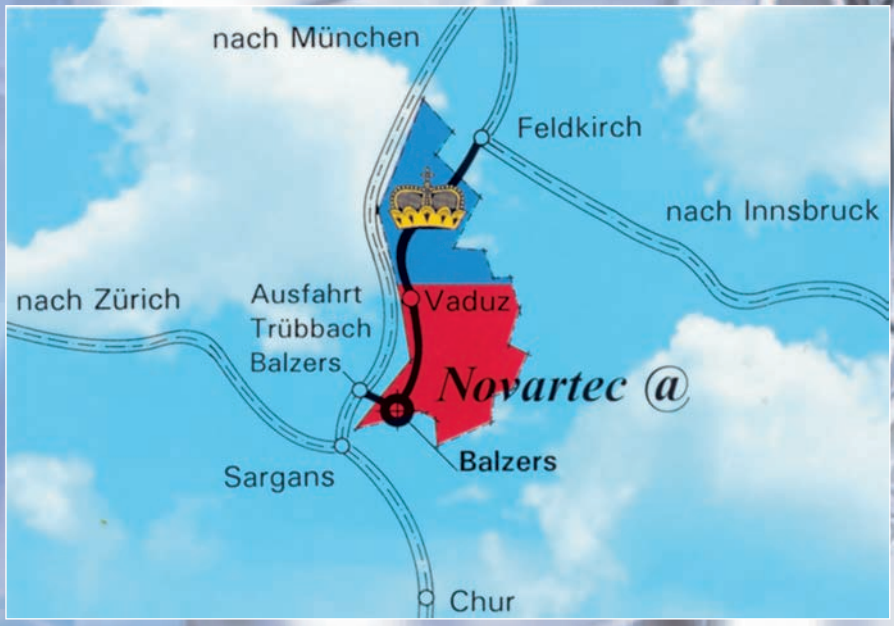
Technical Description



Well known system manufacturer as e.g. Viega, Geberit / Mapress etc. have set standards for the clearance to be maintained during the installation of pipes on walls and ceilings as well as between single pipes. They usually comply with the minimal gaps required to crimp pipes with crimp rings or crimp chains. These guidelines have been considered during the design phase of the Novartec NT-RS 100 allowing the cutting tool to be used for existing pipe systems renovations or modifications of wrong pipe connections with access being guaranteed also in case the pipes are mounted close to walls and ceilings. The cutting process does not require lubrication, which avoids any risk of damaging the oring in the fitting by a lubricant.







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