

TNO SERIES

HEAVY DUTY SEVERING & BEVELING

Ø 114.3 mm - 1828.8 mm
Ø 4.5" - 72"

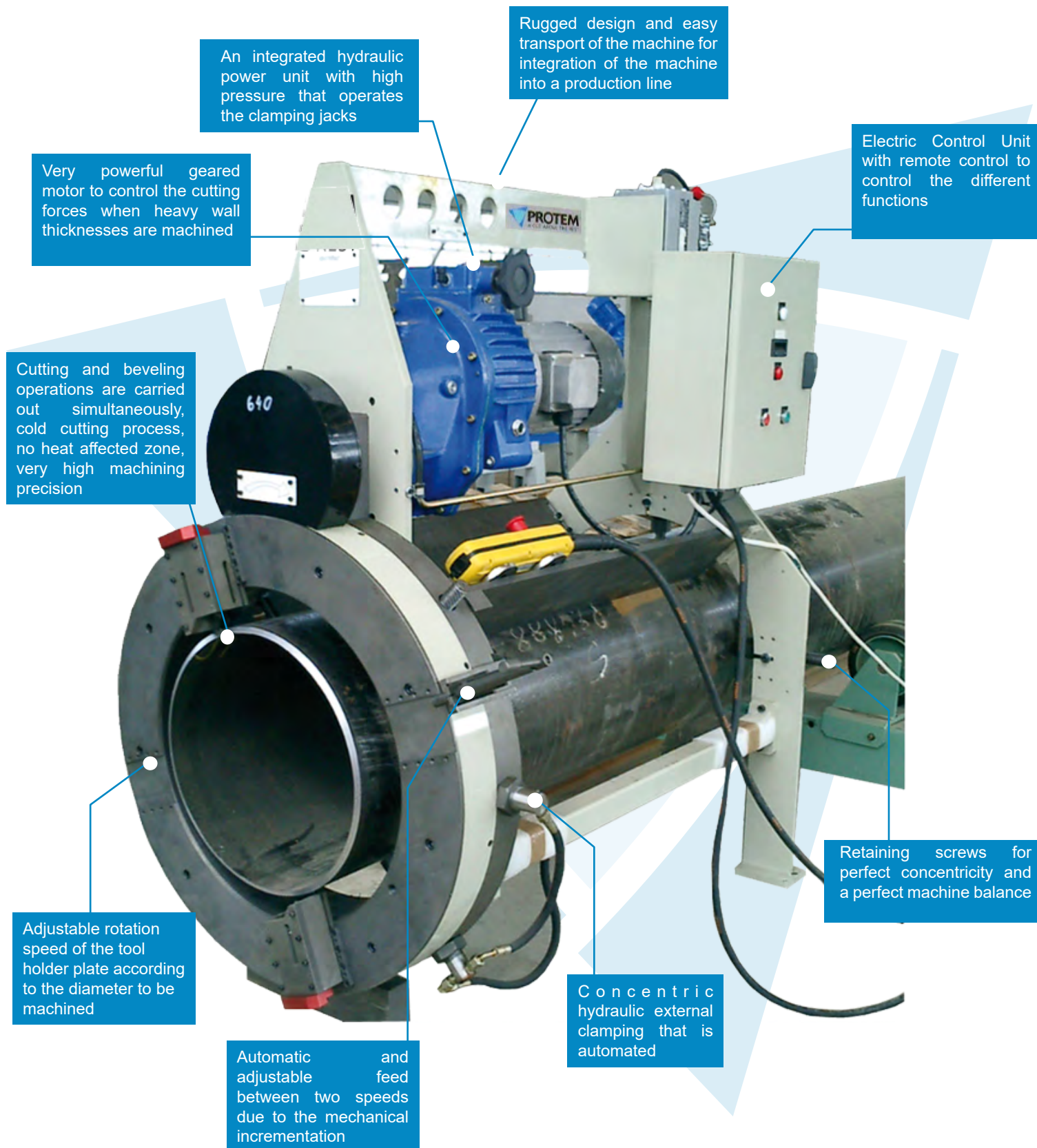
OD MOUNT MACHINING



TNO Series	Machining Capacity	
TNO 4-12	114.3 - 323.9 mm	4" - 12"
TNO 12-24	323.9 - 610 mm	12" - 24"
TNO 24-36	610 - 914.4 mm	24" - 36"

INDUSTRIES :

Oil & Gas	Tube Manufacturers



TNO SERIES

TNO

Ø 114.3 - 1828.8 mm (4" - 12")

DESCRIPTION :

The TNO are cutting and beveling machines, especially designed to fit your piping or tubing prefab applications on-site or in workshops. These machines cut and bevel heavy wall pipes faster than any other machine!

The TNO machines allow saving place in your workshops and can be integrated in your production lines for unmatched results.

They allow to save man hours by avoiding grinding operations, flame cutting, difficult handling and setting of pipes on a lathe. They are transportable, rigid, fast and accurate.

The TNO machines are electrically driven and equipped with a hydraulic power unit for the automatic clamping system. Clamping screws located on the front and on the rear of the machine allow to adjust the concentricity and allow a perfect alignment and a perfect squaring.

The TNO is an OD clamping orbital cutting and beveling machine. The cutting tools are rotating around the tube.

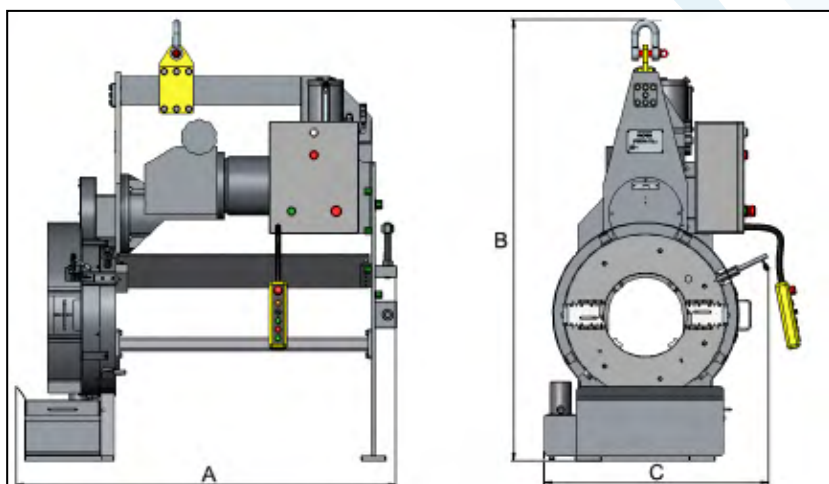
The automatic incremental feed system controls the two tool carriages with two feed speeds.

The rotation speed of the tool holder plate is adjustable according to the tube diameter.

SPECIFIC WELD PREPARATIONS ON REQUEST

Beveling	Cutting	Facing	Counterboring	Surfacing
✓	✓	✓	✓	✗

DIMENSIONS :



TECHNICAL FEATURES

Machine	TNO Series
Clamping range	114.3 - 1828.8 mm 4" - 12"
Clamping	Automatic
Machining Time	Few minutes
Power	400 V – 50 Hz
Stroke of the tool holder	100 mm 3.937"
Usable feed of cutting or beveling tool bits	60 mm 2.362"
Feed of the clamping cylinders	100 mm 3.937"

TNO 4-12



Ø 114.3 - 323.9 mm (4" - 12")



DESCRIPTION :

ORDER NO.	DESCRIPTION
TNO FAB-12	Cutting and beveling machine type TNO 4-12"

Machine	TNO 4-12	
Clamping range	114.3 - 323.9 mm	
	4" - 12"	
	Minimum	Maximum
Tool-plate rotation speed:	5,5 rpm	30 rpm
Vitesse d'avance du plateau porte-outils :	0.08 mm/round	0.16 mm/round
Operating pressure of the clamping cylinders	100 bar	200 bar
	1450 psi	2900 psi
Tube outside diameter	114.3 mm	323.9 mm
	4.5"	12.751"

DIMENSIONS :

TNO 4-12

A	1700 mm
	66.929"
B	1964 mm
	77.322"
C	1000 mm
	39.370"

TNO 12-24



Ø 323.9 - 610 mm (12" - 24")



DESCRIPTION :

ORDER NO.	DESCRIPTION
TNO FAB-24	Cutting and beveling machine type TNO 12-24"

Machine	TNO 12-24	
Clamping range	323.9 - 610 mm	
	12" - 24"	
	Minimum	Maximum
Tool-plate rotation speed:	4.2 tr/mn	21.5 tr/mn
Vitesse d'avance du plateau porte-outils :	0.08 mm/round.	0.16 mm/round
Operating pressure of the clamping cylinders	100 bar	200 bar
	1450 psi	2900 psi
Tube outside diameter	323.9 mm	610 mm
	12.751"	24.015"

DIMENSIONS :

TNO 12-24

A	1700 mm
	66.929"
B	2118 mm
	83.385"
C	1210 mm
	47.637"

TNO SERIES

TNO 24-36

Ø 610 - 914.4 mm (24" - 36")

≈ 1600 kg
≈ 2425 lbs

DESCRIPTION :

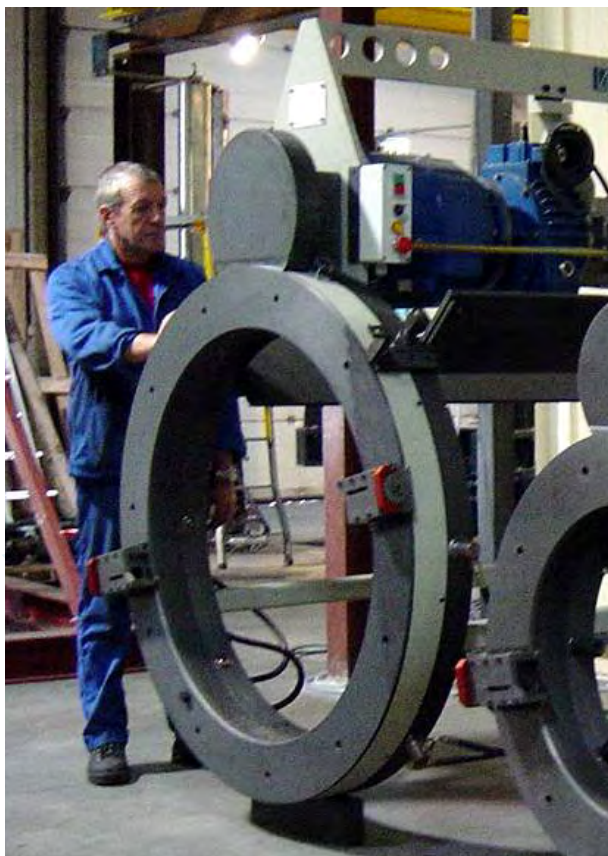
ORDER NO.	DESCRIPTION
TNO FAB-36	Cutting and beveling machine type TNO 24-36"

Machine	TNO 24-36	
Clamping range	610 - 914.4 mm	
	24" - 36"	
	Minimum	Maximum
Tool-plate rotation speed:	2.2 rpm	11.9 rpm
Vitesse d'avance du plateau porte-outils :	0.08 mm/round.	0.16 mm/round
Operating pressure of the clamping cylinders	100 bar	200 bar
	1450 psi	2900 psi
Tube outside diameter	610 mm	915 mm
	24.015"	36.023"

DIMENSIONS :

TNO 24-36

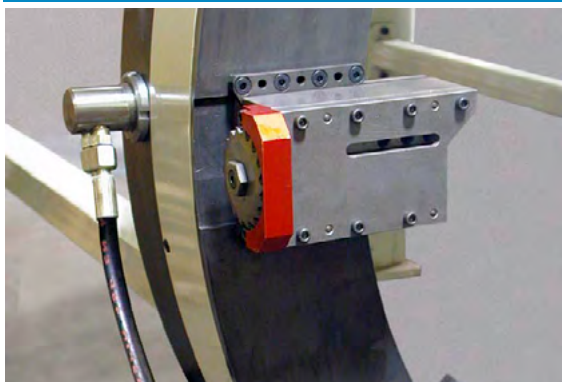
A	1700 mm
	66.929"
B	2515 mm
	99.015"
C	1510 mm
	59.448"



OD MOUNT MACHINING

▼ OPTIONS :

Tool block carriage



100 mm stroke carriages or two ovalization tracking carriages are necessary. Depending on the application, A wide range of cutting or beveling tool-bits are available, allowing to perform the majority of the required machining applications.

Lubrification device



In order to increase the lifetime of the inserts and to reduce the noise level during the machining works, a lubrication device shall be used: This lubrication device is made up of a cutting fluid tank, covered by a chip container and a pump for circulating the cutting fluid . A flexible piping kit for aiming the fluid at the cutting point is also supplied together with a tank support plate. This option is activated through a push button.

Counterboring carriage



The counterboring carriage allows to perform an ID bevel to get a regular land.

Chipguard



The whole range of TNO units is fitted with a protective housing which covers the tool-plate. The housing represents a safety system for the operators. It has a slot to be able to adjust the position of the clutch pin that moves the tool carriage forward.