

TNO SERIES

HEAVY DUTY SEVERING & BEVELING



Ø 114.3 mm - 1828.8 mm
Ø 4.5" - 72"

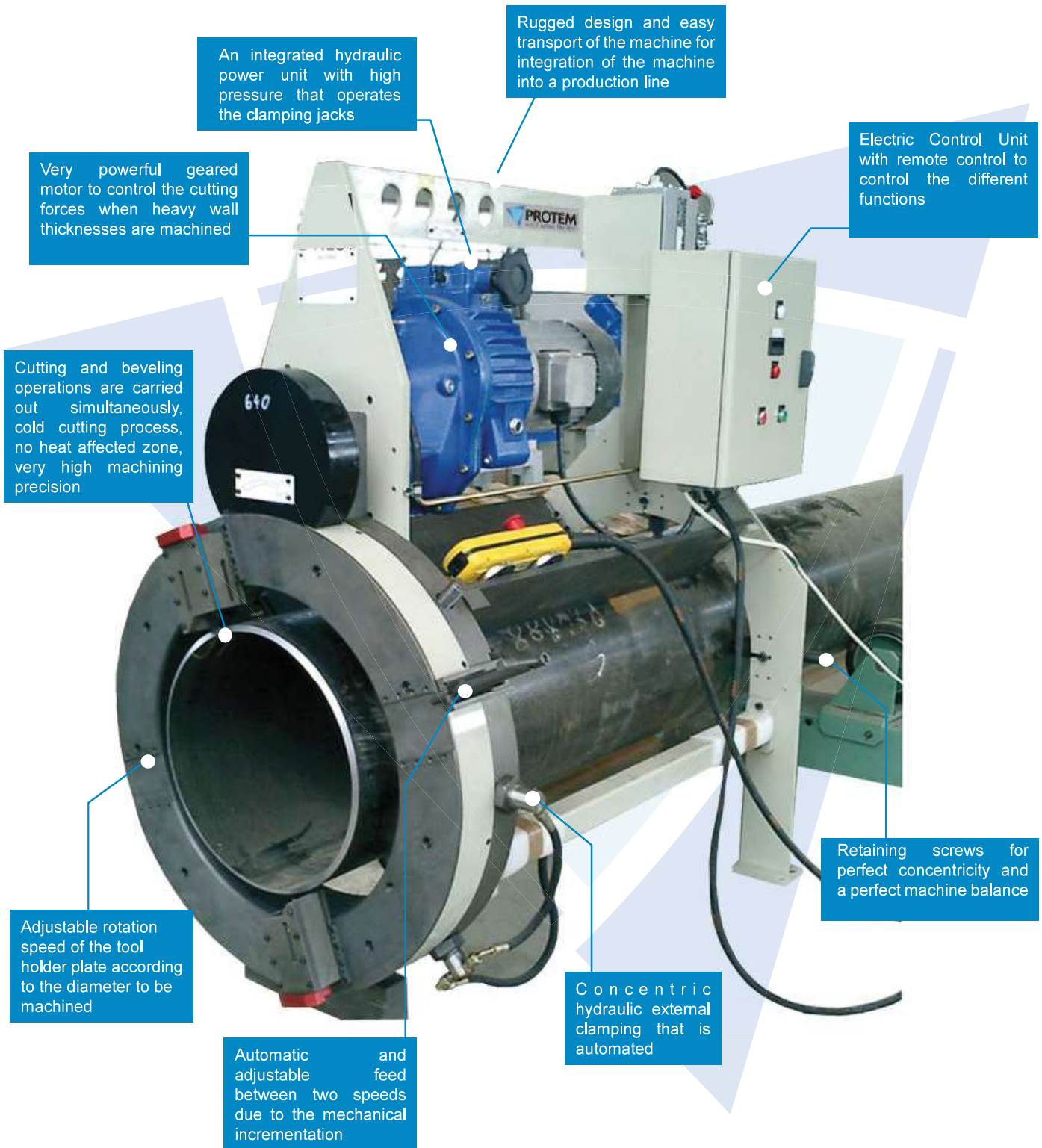
OD MOUNTED MACHINING



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 (4.5" - 72")

DESCRIPTION:

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

The TNO machines save space in your workshops and can be integrated into your production lines for unmatched results.

They save man hours by avoiding grinding operations, flame cutting, difficult handling and the 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 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 rotate around the tube.

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

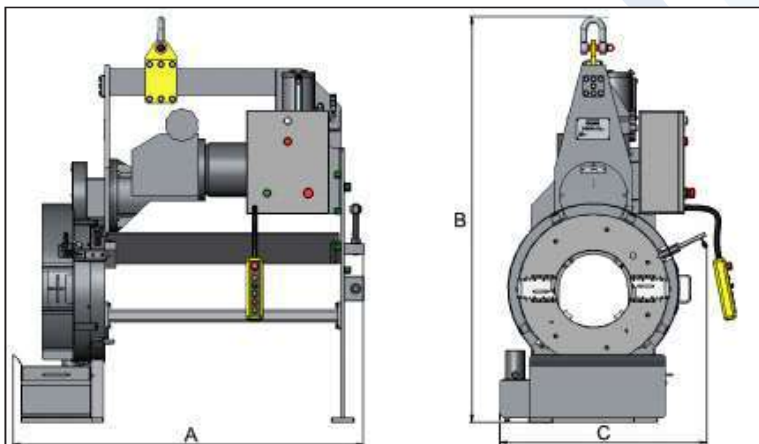
The rotation speed of the tool holder plate is adjustable according to the tube diameter.

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")

≈ 1100 kg
≈ 2425 lbs

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
Advance speed of tool holder plates:	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"

OD MOUNTED MACHINING

TNO 12-24

Ø 323.9 - 610 mm (12" - 24")

≈ 1200 kg
≈ 2645.5 lbs

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
Advance speed of tool holder plates:	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"
	2118 mm
B	88.385"
	1210 mm
C	47.637"

TNO SERIES

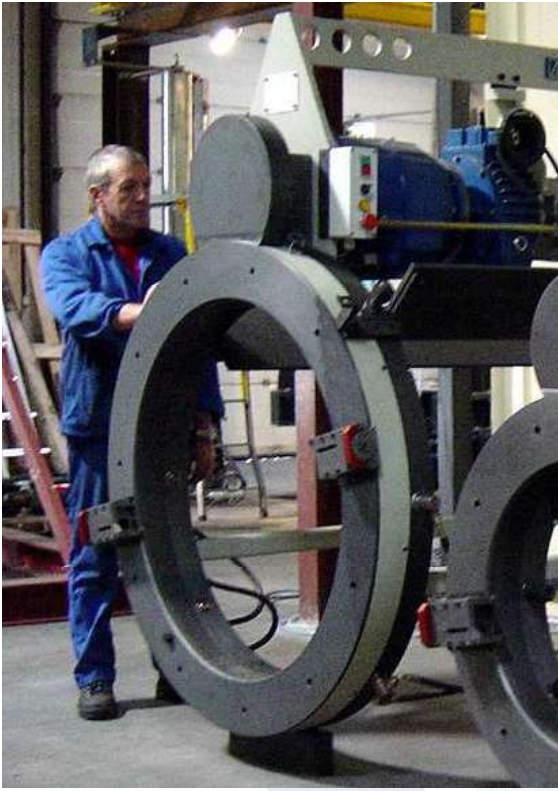
TNO 24-36

Ø 610 - 914.4 mm (24" - 36")

≈ 1600 kg
≈ 3527 lbs

DESCRIPTION:

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



DIMENSIONS:

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
Advance speed of tool holder plates:	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"

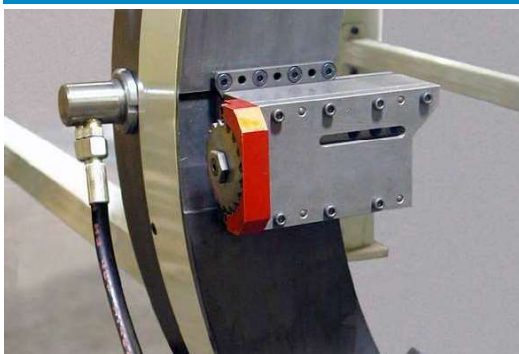
A	1700 mm
	66.929"
B	2515 mm
	99.015"
C	1510 mm
	59.448"

▼ BIGGER MODELS ON REQUEST

OD MOUNTED MACHINING

▼ OPTIONS:

Tool block carriage



100 mm (3.937") stroke carriages or two ovality tracking carriages are necessary. Depending on the application, a wide range of cutting or beveling tool bits are available to perform the majority of the required machining applications.

ORDER NO.	DESCRIPTION
TTNG-2200	TTNG-PO-C-50 Tool holder carriage, 50 mm stroke
TTNG-2400	TTNG-PO-C-100 Tool holder carriage, 100 mm stroke
TNO_FAB-1002	TTNG FAB-4/12-POSUI Carriage for ovalization tracking with kit intermediate plates and clutch holder

Lubrication device



In order to increase the lifetime of the inserts and to reduce the noise level during the machining operations a lubrication device must 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.

ORDER NO.	DESCRIPTION
TNO_FAB-36-LUB	TNO FAB-36-LUB Lubrication kit

Counterboring carriage



The counterboring carriage performs an ID bevel in order to obtain a regular land.

ORDER NO.	DESCRIPTION
TTNG-2700	Counterboring carriage, stroke 50 mm with tool bit holder
TTNG-2800	Counterboring carriage, stroke 50 mm with insert holder
TTNG-2900	Counterboring carriage, stroke 100 mm with tool bit holder
TTNG-3000	Counterboring carriage, stroke 100 mm with insert holder

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.

ORDER NO.	DESCRIPTION
TNO-3200	Safety housing