

# TONISCO® Jr.

DN20 (3/4") - DN100 (4") Hot Tappings

All pipeline materials & Substances



DH

DC

PW

WW

HWAC

GAS

PETRO



**TONISCO® Jr.**  
Hot tapping machine

TONISCO® Jr. Hot Tapping Machine is versatile and easy to operate. It has a full range capability of setting valves DN20 – DN100 by completing it with proper adapters. With suitable adapter TONISCO® Jr. can be used with flanged, threaded or weldable connections. All the connections can be made without stopping the flow inside the mains up to the pressure of 60 bar.

All TONISCO® Hot Tapping Machines provide an efficient and economical way of making connections to mains for repairs, relocations or additions.

## Features

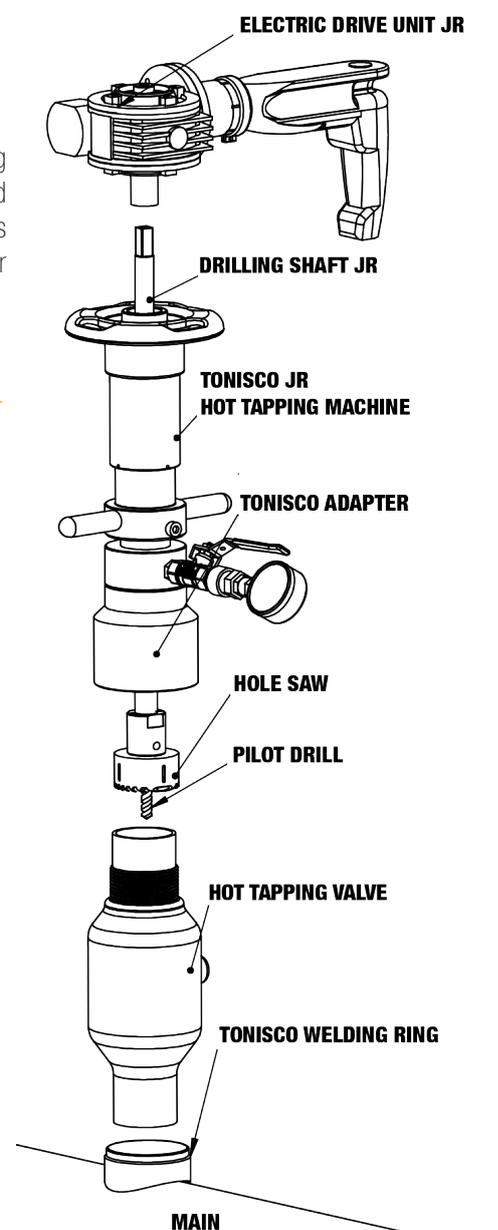
TONISCO® Jr. Hot Tapping Machine can be used in temperature maximum of 200°C and pressure up to 60 bar. TONISCO® Jr. is equipped normally with electric drive unit. Other possible drive types are hand drive, pneumatic drive or hydraulic drive.

TONISCO® Jr. Hot Tapping Machine weighs only 5,5 kg. and it can be operated by one man. TONISCO® Jr. Hot Tapping Machine can be completed by wide range of hole saws, pilot drills and adapters to fit it with all mainline materials and substances.

By using TONISCO® Hot Tapping Machines it is possible to make pipeline alteration works in pressurized pipelines without shutdowns. The system has a full technical approval from the German quality organization TÜV-Nord. The certificate is valid for the whole range from DN20 to DN100.

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**Typical set up**



## Description

TONISCO® Hot tapping machines are designed for making connections to pipelines, tanks and plant piping without shutdown or interruptions to the system.

The lightweight and robust TONISCO® Jr. Hot Tapping Machine is equipment designed for making connections to pipelines, tanks and plant piping. By using TONISCO® Jr. Hot Tapping Machine it is possible to take new connections from DN20 to DN100.



## TONISCO® JR. HOT TAPPING SYSTEMS SPESIFICATIONS



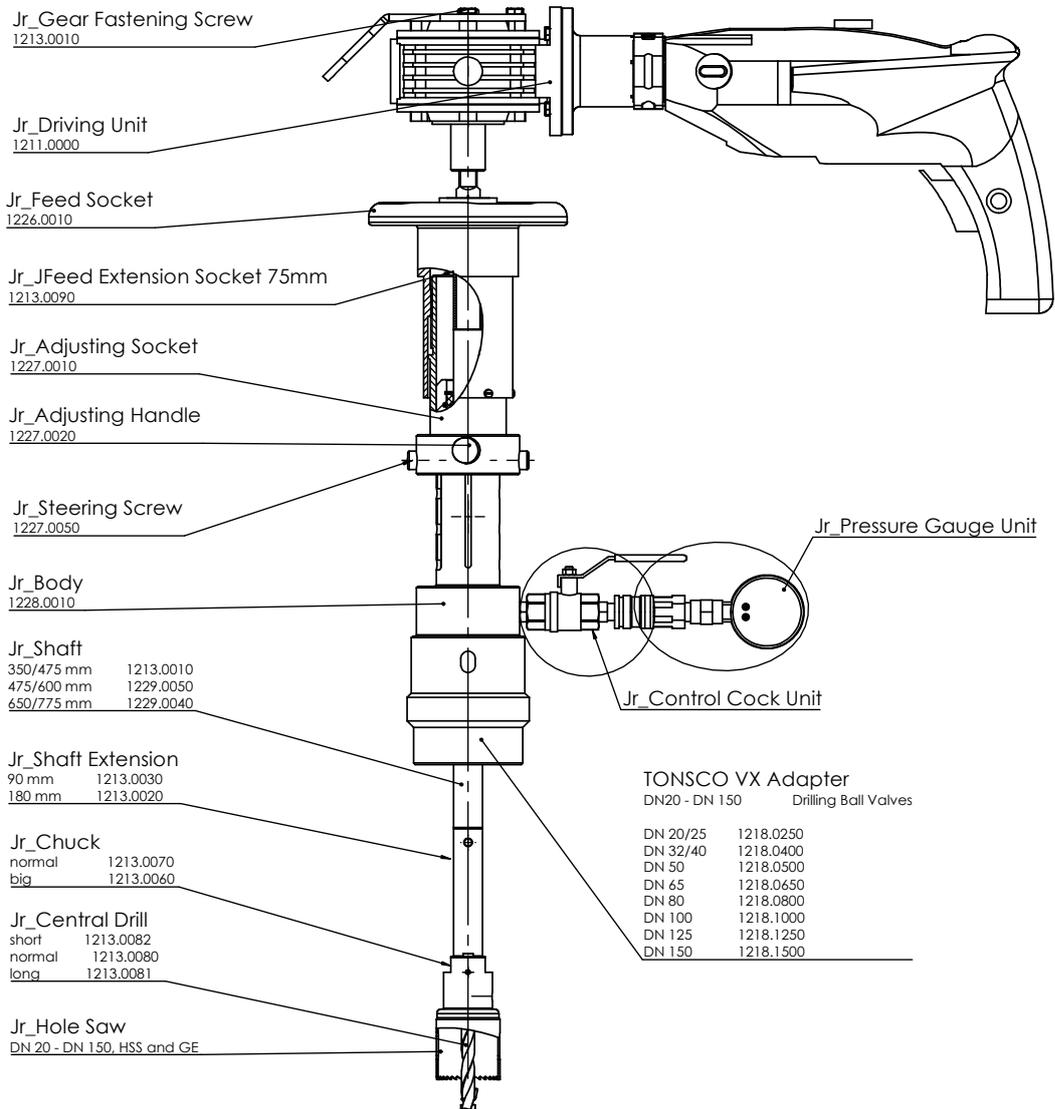
### Technical Specifications

Hot tapping range:	DN20-100* (3/4"-4") (*Available also DN125 & DN150)
Drive Units:	Electric 220-240v / 50-60 Hz 1000 VA Pneumatic 6-7 bar / 1500 l / min Hydraulic
Body material:	42CrMo4
Feed Unit material:	S355J2
Sealings:	EBDM (NBR & VITON)
Testing:	Pressure test and construction inspection
Pressure test:	60 bar (90 bar with high pressure model)
Max. operational pressure:	40 bar (60 bar with high pressure model)
Operational temperature:	-5°C to +160°C (200°C with Viton Sealings)

\* Inquire the Add-on adapters DN125 & DN150 separately

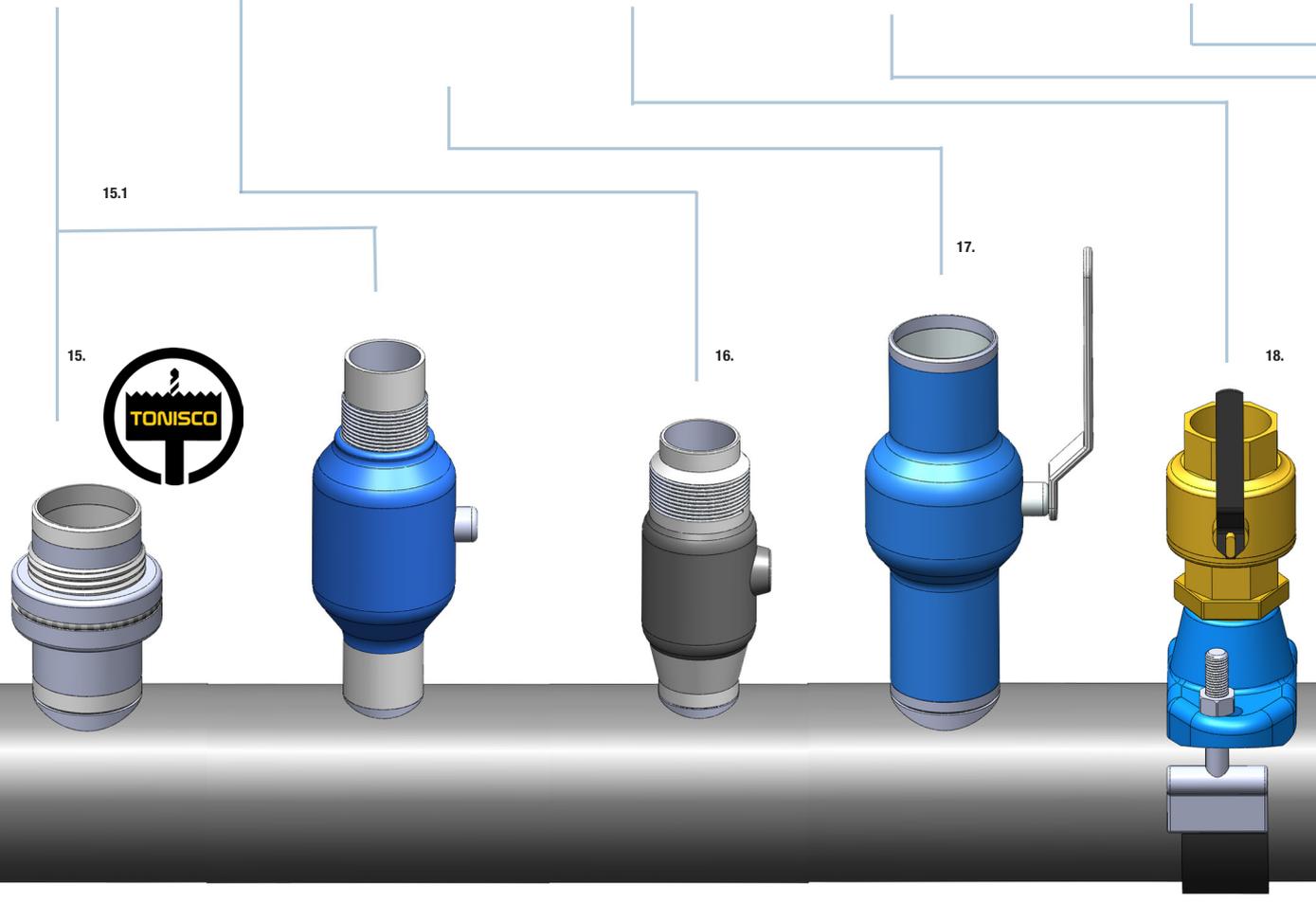
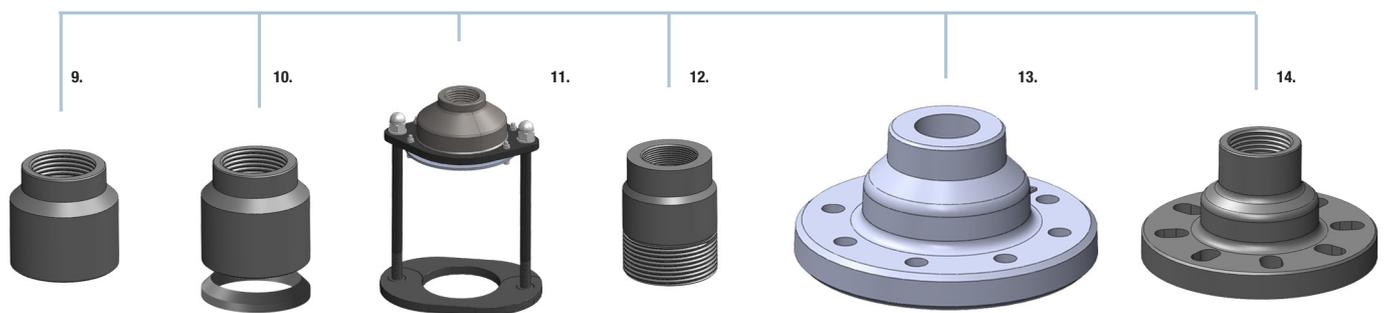
TÜV-Certificate number: TÜV.A. 366-16

## TONISCO® JR. HOT TAPPING MACHINE MAIN PARTS



# TONISCO® Jr.

Hot Tapping Machine



# Applications - Build your Own TONISCO® Jr.

TONISCO® Hot tapping machines are designed completely according to the needs of the customer. The Hot tapping machines are used in various different fields and in changing environments.

TONISCO®'s Team of engineers is constantly designing new features to the machines in order to find solutions that helps the customer to use the same basic TONISCO® Hot tapping machine with the valves that best fit the customers needs. The three core-foundations in TONISCO®'s designs are SAFETY, EASE OF USE and FLEXIBILITY.

The Option-Chart in the left shows the basic principle of how to build your own TONISCO® Hot tapping machine. Everything starts from the Power unit. Choose the most suitable Power unit according to the circumstances where the machine is mostly used.

The Pneumatic and Hydraulic drive units are designed for ATEX-Environments. The Electric Drive unit is the most common choice because it's extremely easy to operate and it can be attached to the normal 230 V electric network.

Basic TONISCO® Jr. Hot tapping machine can be used with various different

hot tapping valves simply by choosing the right Adapter. TONISCO® Jr. Adapters comes in three basic options for threaded, flanged and welded connections. The maximum operating pressure for the threaded Adapters is 60 bar and the Flanged adapters reach up to PN64. Also AISI standard flange Adapters are available.

TONISCO® Offers a wide range of different hole saws for every pipe material used in pressurized pipelines. Complete your own TONISCO® Jr. Hot tapping machine with the suitable Hole Saw Set and the hot tapping system is ready for use.

## TONISCO® System - The Open-Source of Hot tapping

### DRIVE UNIT OPTIONS FOR TONISCO® Jr.

1. Ratched Drive, Manual, for plastic pipes
2. Electric Drive Unit, For all materials
3. Pneumatic Drive Unit, ATEX-approved
4. Hydraulic Drive Unit\*

### ADAPTER OPTIONS FOR TONISCO® Jr.

9. Adapters with Inner-threads, for TONISCO & VEXVE valves
10. Adapters with multi-threads, for DANFOSS Drilling valves
11. Adapters for ball valves with welded ends
12. Adapters with outer R (BSP) threads, for Ball valves with inner threads
- 12.1 Adapters with inner R (BSP) threads, for Ball valves with outer threads
13. Aluminium Adapters for flanged valves, PN10,16 (also AISI)
14. Steel Adapters for flanged valves, PN10,16,25,40,64 (also AISI)

### HOLE SAW OPTIONS FOR TONISCO® Jr.

5. Bi-Metal (HSS) Hole Saws, Steel, Ductile and Cast Iron
6. Carbide Grit tooth (GE) Hole Saws, Concreted Pipes
7. Carbide tipped (HM) Hole Saws, PE, PVC and Clay Pipes
8. TONISCO® Hole Saws for other materials\*

### EXAMPLES OF HOT TAPPING VALVES SUITABLE FOR TONISCO® Jr.

15. TONISCO® Hot Tapping valves DN20-DN100
- 15.1 VEXVE Hot tapping ball valves DN20-N100
16. DANFOSS Hot Tapping valves DN20-DN100
17. Weldable Ball valves with weld ends\*
18. R-Threaded Ball valves
19. Sluice, Gate and Ball valves with flanged connections (PN10,16,25,40,64)
- 19.1 Sluice, Gate and Ball valves with flanged connections (PN10,16,25,40)

Also available in other standards etc.

**\*Contact sales for more information**

