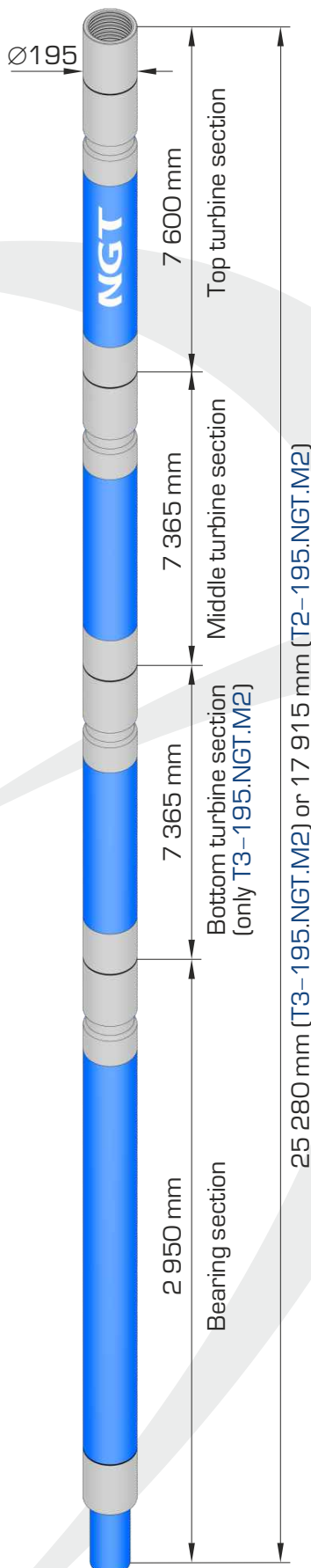


## T2-195.NGT.M2 and T3-195.NGT.M2



The turbodrill incorporates two (T2-195.NGT.M2) or three (T3-195.NGT.M2) turbine sections and bearing section. Highly productive turbine made with precision casting technique is used in the turbine sections.

The turbodrill bearing section operates in mud medium and has a combined axial bearing: multi-row thrust ball bearing with toroidal raceways and rubber-metal heels. Friction surfaces of radial bearings are reinforced with plates made of hard alloy. This allows reaching high power characteristics and increased overhaul life.

### Turbodrill specification

Code of turbodrill	T2-195.NGT.M2	T3-195.NGT.M2
OD of threaded connections, mm	195	
Diameters of bits used, mm	215,9–250,8	
Turbodrill length, mm	17 915	25 280
Length of top turbine section, mm	7 600	7 600
Length of middle turbine section, mm	7 365	7 365
Length of bottom turbine section, mm	–	7 365
Length of bearing section, mm	2 950	2 950
Connecting thread to drill pipes	5 1/2 FH	
Connecting thread to bit	4 1/2 Reg	
Max. density of mud, g/cm <sup>3</sup>	1,9	
Max. axial load, kN	250	
Weight, kg	3 340	4 720
Max. temperature in well, °C	110	

### Turbodrill power characteristic

Quantity of turbine sections, pc.	2	3
Mud flow rate, l/sec	32–36	32–36
Mud density, g/cm <sup>3</sup>	1,0	
Stall torque, N*m	3151–3988	4726–5982
Speed of rotation at operating condition, min <sup>-1</sup>	594–669	594–669
Pressure drop, MPa	4,0–5,1	6,0–7,6
Max. power, kW	92–132	139–197