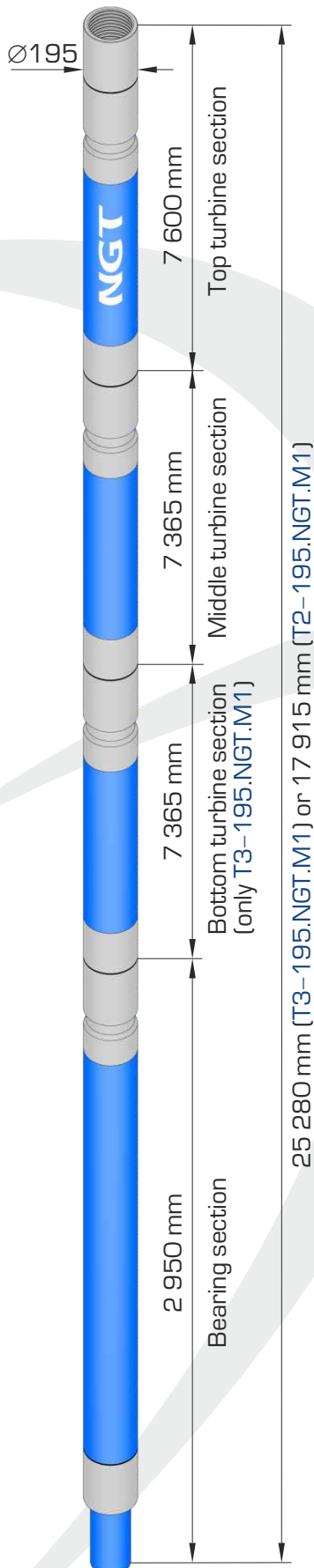


T2-195.NGT.M1 and T3-195.NGT.M1



The turbodrill incorporates two (T2-195.NGT.M1) or three (T3-195.NGT.M1) turbine sections and bearing section. Medium speed turbine 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.M1	T3-195.NGT.M1
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 ³	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 ³	1,0	
Stall torque, N*m	2240–2835	3360–4252
Speed of rotation at operating condition, min ⁻¹	411–463	411–463
Pressure drop, MPa	3,0–3,7	4,4–5,6
Max. power, kW	52–71	75–107