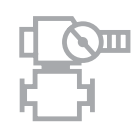


# PIPE-BENDING MACHINES



JSC “Shipbuilding & Shiprepair Technology Center” develops and manufactures pipe-bending equipment for bending of pipes from carbon and corrosion-resistant steels, nonferrous metals and titanium alloys.

Pipe bending machines “STM1-1M” (CTM1-1M), “STM1-2” (CTM1-2), “STM1-3” (CTM1-3), “STM1-4” (CTM1-4), “STG-45RD” (CTГ-45РД), “STG-60RD” (CTГ-60РД), “TGS-80RD” (ТГC-80РД), “STG-100RD” (CTГ-100РД), “STG-108RD” (CTГ-108РД), “STG-159A” (CTГ-159А), “STG-219RD” (CTГ-219РД) are purposed for cold bending of pipes by winding with use of mandrel.

Control systems of cold pipe-bending machines provide automation not only for main, but also for secondary bending operations. Computer-driven control systems implement digital technology of pipe-bending, except usage of stencils and drafts.

The machines are fitted out with wide range of jigging.

The machine “UTG-IN” (УТГ-ИИ) is purposed for pipe-bending with use of inductive heating by high frequency currents (HFC). These machines can be fitted out either with a water cooling system of a heating zone, or with an air cooling system. As a part of machines there is a heating temperature control device on a pyrometer basis, combined with a laser pointer.

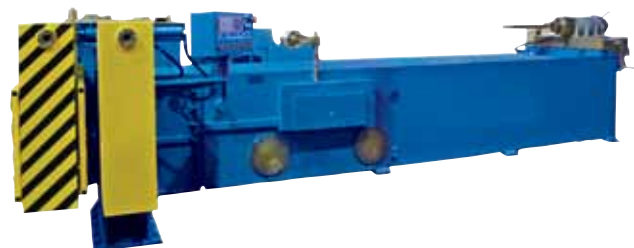
## STM1-1M (COLD BENDING)



## STG-219RD (COLD BENDING)



## STG-108RD (COLD BENDING)



## STG-60RD (COLD BENDING)



## SPECIFICATIONS

	STM1-1M (CNC control system)	STG-60RD	STG-108RD	STG-219RD
Bended pipes diameter, mm	14—60	14—60	38—110	76—219
Bended pipes maximum length, mm	4 000	4 000	4 000	4 000
Maximum bending angle, degree	180	180	180	180
Maximum bending speed, rpm	5.7	5.7	1.8	0.9
Weight, kg	4 400	2 700	9 900	19 800
Total capacity, kW	12.6	7.5	15	55

UTG-IN  
(BENDING WITH INDUCTIVE HEATING)



TGS-80RD (COLD BENDING)



STG-159A (COLD BENDING)



STG-100RD (COLD BENDING)



SPECIFICATIONS

	UTG-IN (with HFC heating)	TGS-8oRD	STG-10oRD	STG-159A
Bended pipes diameter, mm	45—273 (377)	22—79	38—110	75—159
Bended pipes maximum length, mm	9 000	4 000	4 000	5300
Maximum bending angle, degree	18o	18o	18o	18o
Maximum bending speed, rpm	—	2.5	2	1.3
Weight, kg	9 800	2 700	4 000	15 000
Total capacity, kW	250	5.5	12	31.55

#### JSC SSTC

- Performs design and development of operational documentation with specialized design bureaux, possessing long-term work experience
- Produces technological equipment in accordance with certified quality management system
- Carries out commissioning at Customer's site
- Provides training of Customer's specialists and warranty service

Introduced pipe-bending machines successfully operate at Russian and foreign enterprises.



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