

Metallurgical equipment

Equipment for blast-furnace melting operation stage

STATIONARY MIXERS FOR HOT METAL STORAGE



Stationary mixers with a capacity of 600, 1300 and 2500 tons are designed for storage and technological preparation of large masses of hot metal coming from blast furnaces, and for its discharge to convert into steel, as well as equalizing its temperature and averaging the chemical composition.

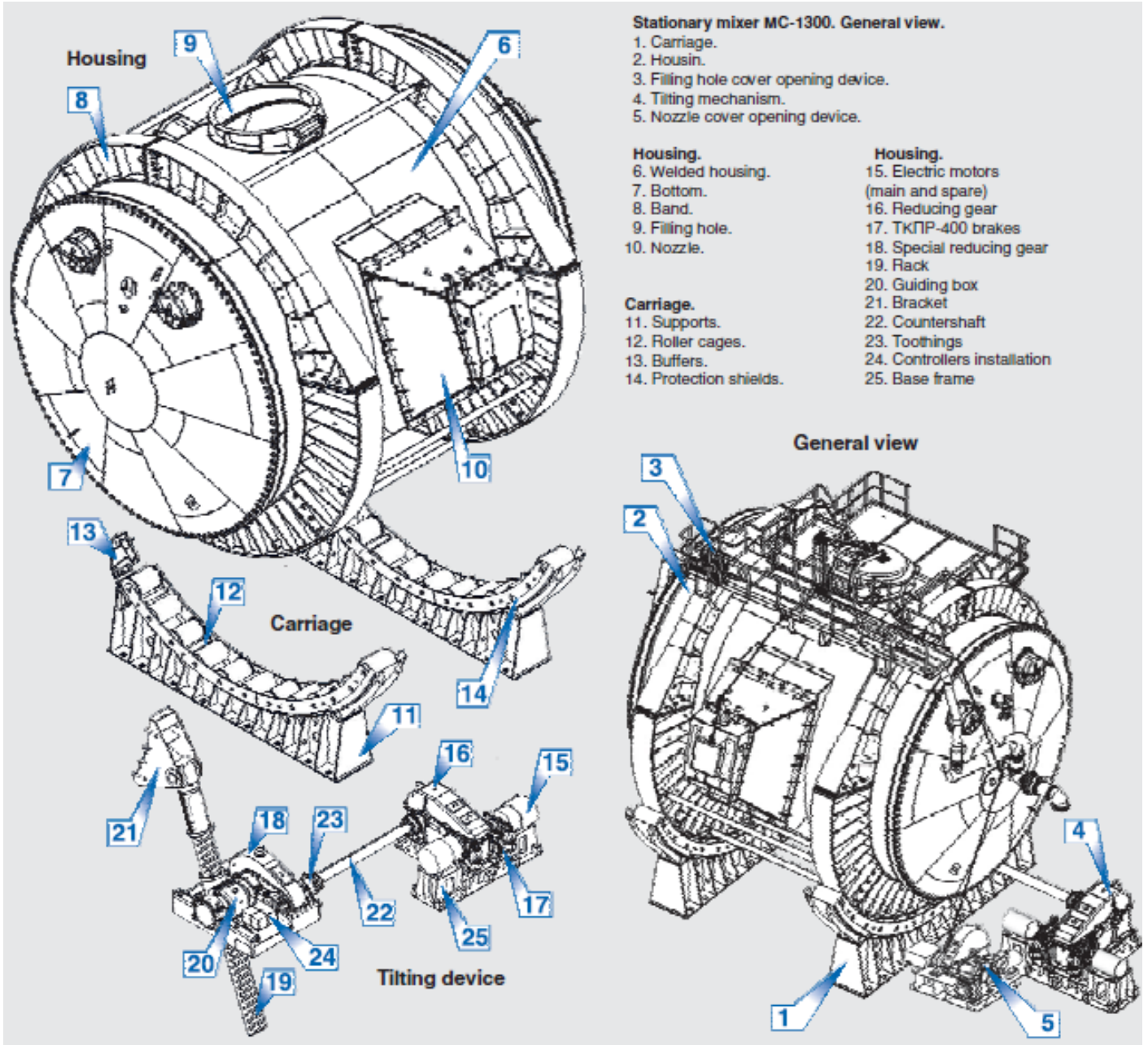
The mixers have a steel casing mounted on roller bearings, a swing mechanism and a gas-heating device with an automated process control system (APCS) and safety automatics operating on natural or coke oven gas.

The gas heating device is designed to automatically maintain the temperature of hot metal required by the process. Up-to-date process control system ensures maintaining the preset temperature of the internal space of the mixer working volume with high accuracy, with minimal energy consumption and minimal intervention of maintenance personnel.

Safety automation is designed to shut off the gas supply when its pressure deviates from the nominal value in both directions (increasing and decreasing), as well as when the supply of ventilating air to combustion stops and there is no power supply. If at the moment of the tilted position of the mixer the power supply is cut off, it will self-return to its initial position.

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Technical parameters

Parameter designation	Value*		
Mixer model	MC-600	MC-1300	MC-2500
Liquid iron weight, t	600	1300	2500
Rated temperature of liquid iron, °C	1350	1350	1320
Ultimate operational tilting angle during discharge, deg	25	30	30
Tilting angle during full discharge, deg	47	45	48
Filling neck and discharge lip arrangement	in the middle of the barrel		
Swing drive (tilt drive)	rack		
Overall size, mm, no more than:			
- length	13680	16000	17700
- width	9975	11525	14700
- height	10910	12712	16500
Weight (without lining and electrical equipment), t	190,5	330	980



*Note:

Besides above-mentioned standard production models NKMZ PJSC can supply to the customer any mixer according to your requirements specification.