



KAMAZ
PUBLICLY TRADED COMPANY

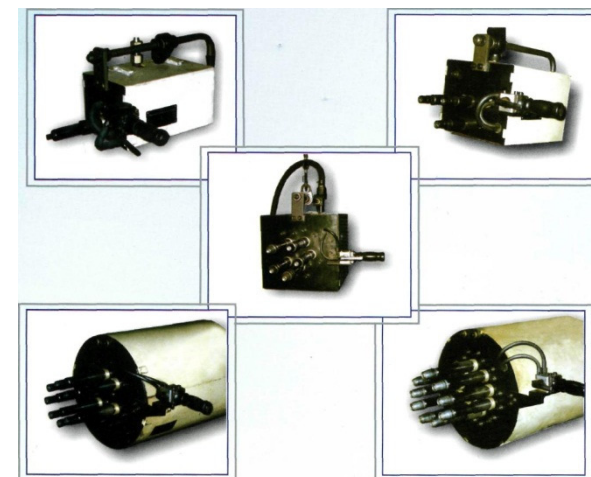
REPAIR AND TOOL MAKING PLANT

Manufacturing of pneumatic tools and multi-spindle assembly systems

Sufficient stock of general-purpose and special-purpose high-resolution equipment allows us to produce a wide range of pneumatic tools: pneumatic drives, multi-spindle nut wrenches, grinders, angle nut runners, ratchet nut runners, impact wrenches, pistol-grip nut runners, as well as balancers for hanging the abovementioned tools.



- Pneumatic drives
- Grinders
- Balancers
- Angle nut runners
- Ratchet nut runners
- Pistol-grip nut runners
- Impact wrenches
- Multi-spindle assembly systems without shutdown and with a shutdown based on a set tightening torque



Pneumatic drives

Pneumatic drives are intended for use as part of multi-spindle assembly systems for assembly and disassembly of threaded joints and can be applied as part of other production machinery.

High efficiency and reliability, simplicity and ease of maintenance make them indispensable for mass and large-scale production.

A wide range of standard sizes, reversing option and use of spring-actuated attachments allow to address a great number of challenges related to simultaneous tightening (unscrewing) of several threaded joints at a time.

Special configurations of pneumatic drives with special reduction gears allow to simultaneously wrench closely spaced threaded joints.

A drive configuration with a strain-gage transducer allows to control a tightening torque and shutdown based on a set tightening torque.

Torque range: 3 to 340 Nm



Use of special planetary reduction gears allows to increase the torque up to 1500 Nm.



MULTI-SPINDLE ASSEMBLY SYSTEMS

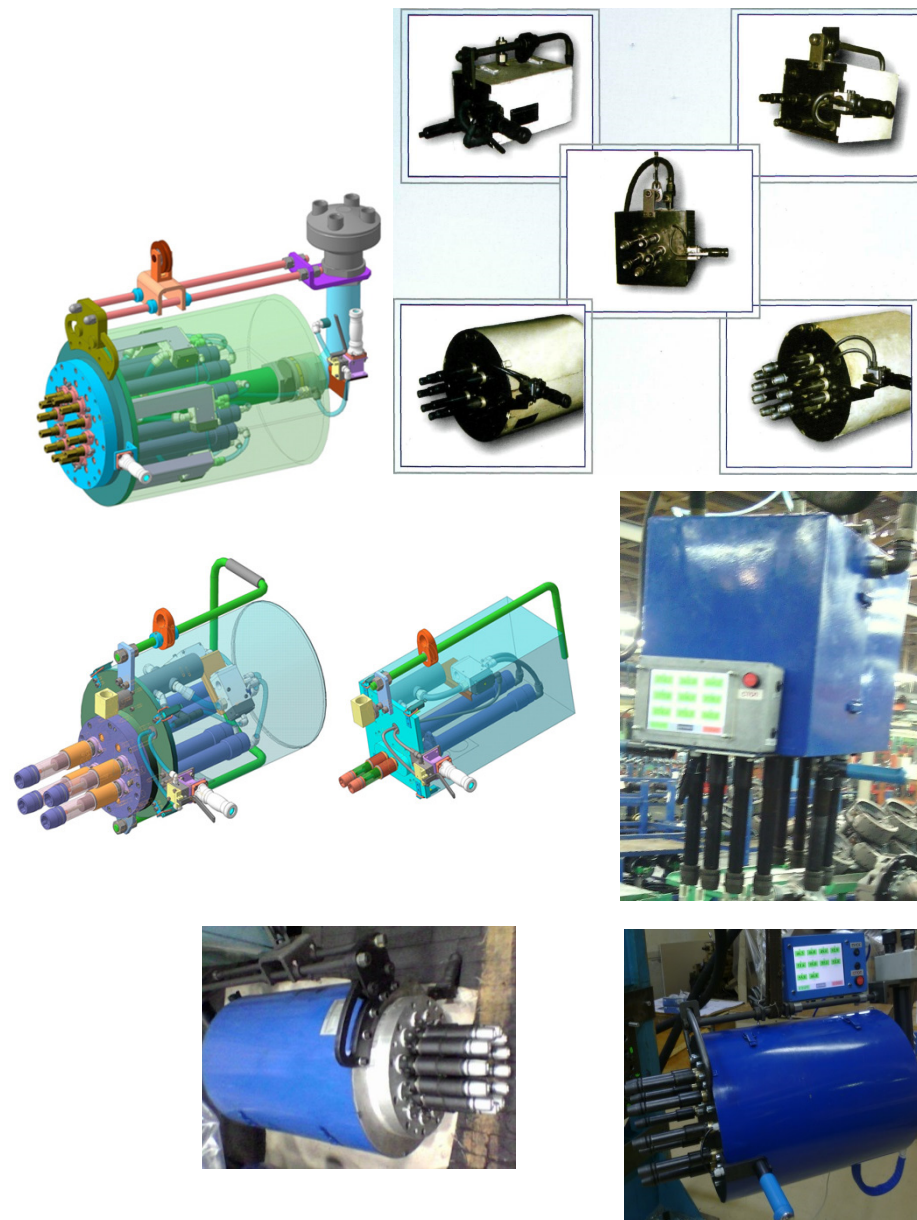
KAMAZ Repair and tooling plant designs and manufactures a wide range of multi-spindle assembly systems. This is a high-production power-driven hand tool intended for screwing and unscrewing of cluster threaded joints in the assembly production of automotive and other industries.

The configuration of assembly systems may differ depending on the required connection accuracy: without shutdown, with mechanical shutdown or with a tightening torque electronic control system.

Pneumatic drives of multi-spindle assembly systems ensure the assembly and disassembly of threaded joints with a wide range of tightening torques from 3 Nm to 1500 Nm.

Multi-spindle assembly systems produced by the Repair and tooling plant are characterized by reliability and durability.

A multi-spindle tool designed in accordance with the customer requirements is widely used not only by KAMAZ plants, but also by such large machine manufacturers of Russia and CIS countries as GAZ, UAZ, AVTOVAZ, YaMZ, TD DizeL-MTS, ChTZ, MAZ, etc.



STRAIGHT SCREWDRIVERS

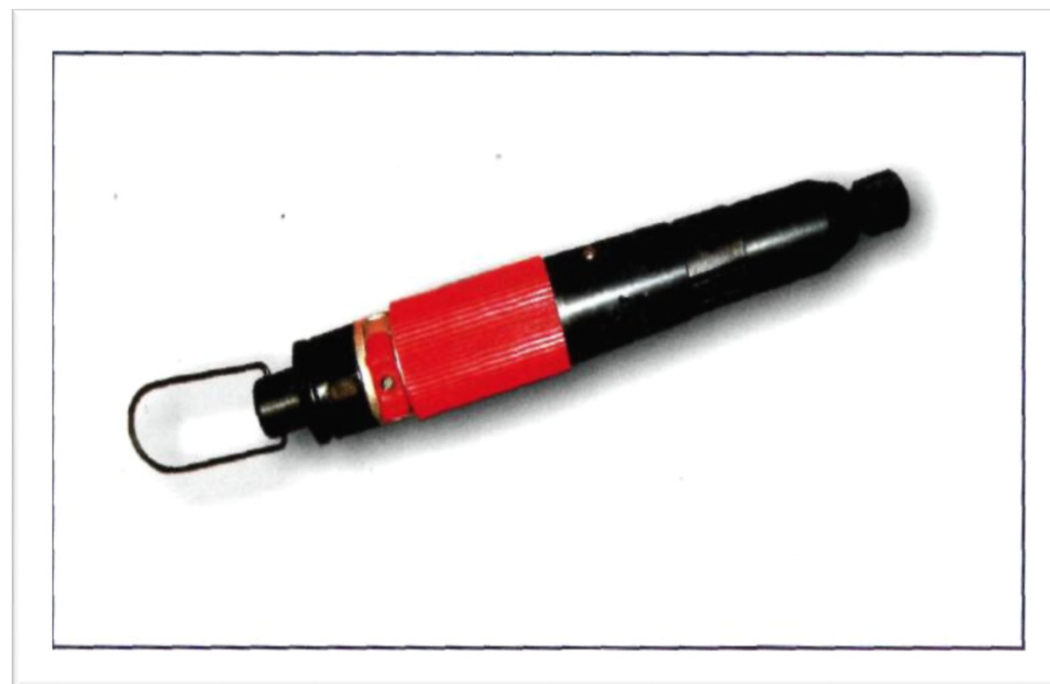
Straight screwdrivers are intended for assembly and disassembly of small threaded joints.

Reversing option and small weight ensure their ease of operation.

A vacuum screw gripper on a K-MG110R/K-12E1ACC screwdriver makes a screw manual engagement unnecessary.

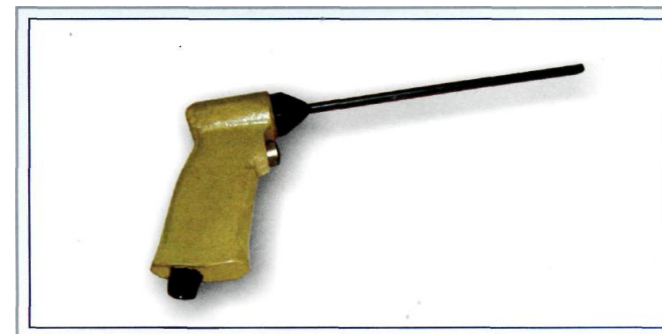
Straight screwdrivers are safe in operation from a vibration point of view.

Torque range: 0,8 to 6,2 Nm.



AIR BLOW GUN

Air blow gun is intended for removing metal chips, dust and mud from 6 to 40 mm blind holes and other hard-to-reach places of the box-shaped workpieces.



PNEUMATIC STAPLER GUN

Pneumatic stapler gun 16-7859-4000 is intended for vehicle cab facing, furniture lining, etc.



Grinders

Grinders are intended for performing different grinding, polishing operations and trimming of ferrous and nonferrous metal parts. Small weight, low vibration and noise level and high performance ensure a wide use of grinders in mass and large-scale production.



BALANCERS

Balancers are intended for hanging different tools on the working station.

They are compact and serviceable. Due to cable length and spring tension adjustment, balancers can be used together with any production equipment.

The built-in locking system prevents a balancer falling in case of its spiral spring breakdown.

Load capacity: up to 90 kg.

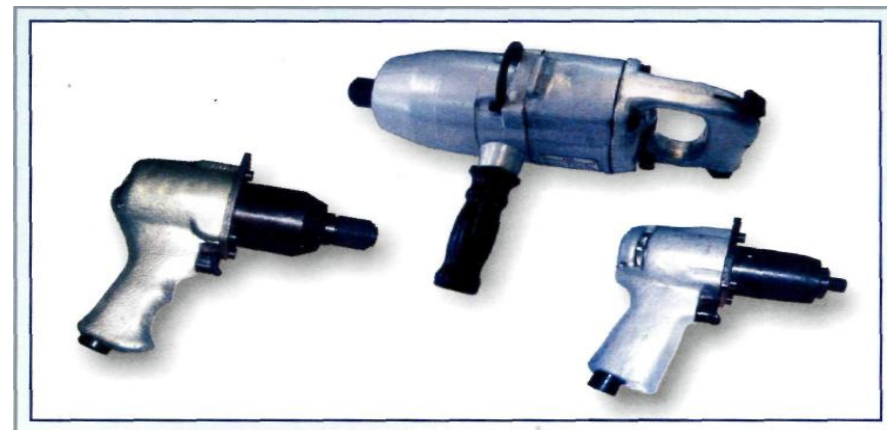


IMPACT WRENCHES

Impact wrenches are intended for assembly and disassembly of threaded joints.

Lack of reaction torque, quick tightening, small weight and overall dimensions, reversing and tightening torque adjustment option ensure a wide use of impact wrenches.

Torque range: 8 to 1450 Nm.



PISTOL-GRIP NUT RUNNERS

Pistol-grip nut runners are intended for assembly and disassembly of small threaded joints.

Small weight, reversing option, convenient grips ensure the use of pistol-grip nut runners in mass and large-scale production.

A nut runner shutdown when a set tightening torque is reached, which is achieved thanks to a built-in torque-limiting clutch, ensures a high tightening accuracy and improves a tool efficiency.

Torque range: 1,6 to 14 Nm.



RATCHET NUT RUNNERS

Ratchet nut runners are intended for assembly and disassembly of pipeline fittings, as well as threaded joints in hard-to-reach places.

The direction of the nut runner rotation is changed through the turn of the nut runner around its long axis by 180 degrees.

Nut runners can have two designs: with open shed and closed shed.

Torque range: 13,6 to 250 Nm.



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