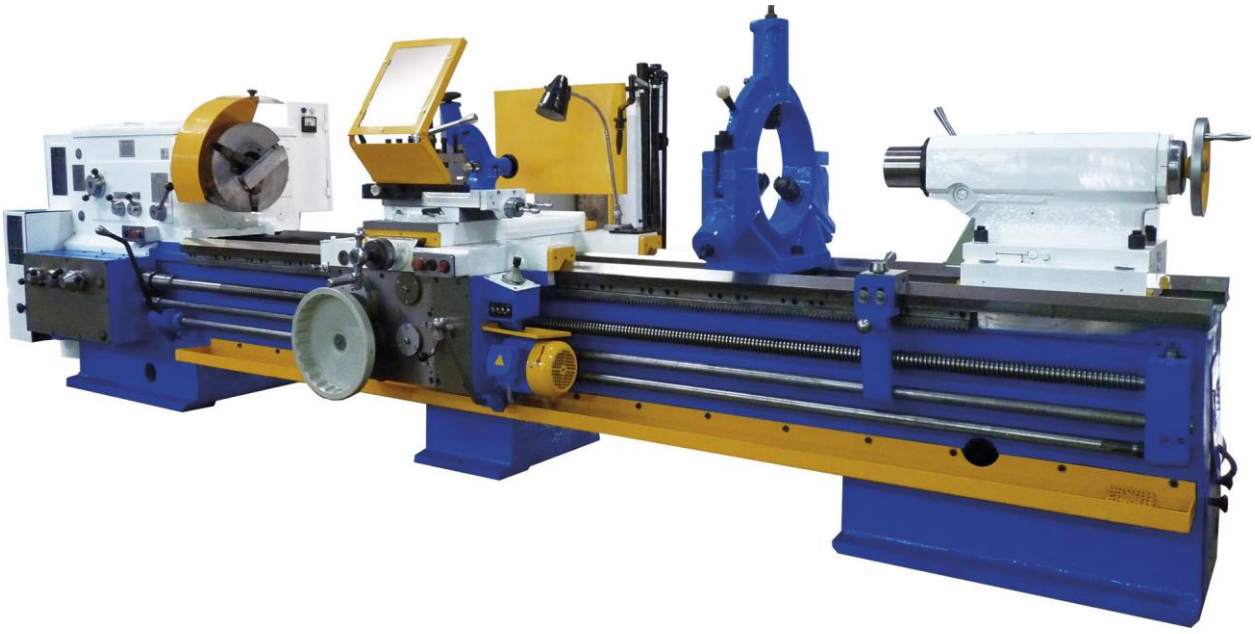
# 1M63H - SCREW-CUTTING LATHE



The lathes models 1M63 meant for performing miscellaneouslathe works, as well as threading(metric, inch long, modular and pitched) have modern technical characteristics are provided for parts cutting with progressive regime of cutting, as well as sufficient rigidity and vibration resistance,highly-mechanized, easy to manage. The lathes use three-point spindle unit with double-row roller bearings, that ensures high precision of lathes.The mechanical feed of the upper slide allows for efficient machining of both short tapers and long tapers using the differential feed addition method.Steady rests provide processing of parts in a wide range of diameters and are additionally equipped with replaceable rollers.Modifications of the lathe are produced with the distance between centers (RMTs) (RMTs) (RMTs) 1500 mm, 3000 mm.Hardened and slotted guiding ways. Tailstock with increased load capacity.Locking the simultaneous inclusion of feed from the feed roller and the lead screw.

| **Technical characteristics** | **Parameters** |
|---|---|
| Admitted diameter of set workpiece over frame, mm | 700 |
| Admitted diameter of workpiece over frame, mm | 630 |
| Admitted diameter of workpiece over support, mm | 350 |
| Extreme length of workpiece in centers, mm (with RMTs 1500mm; 3000mm) | 1500;3000 |
| Spindle flange end (GOST 12593-93) | 8M |
| Spindle's centre with cone "Morse" | 6 |
| Quill's centre with cone "Morse" | 6 |
| Diameter of cylindrical hole in spindle, mm | 70 |
| Spindle range of rpm | 10…1250 |
| Number spindle rotational range steps of forward(reverse) rotation | 22 (11) |
| Maximal weight of workpiece in centers, kg | 2500 |
| Limits of cutting feed(longitudinal axes Z, lateral axes X.) mm/r | 0.033…22,4<br>0.013…8,243 |
| Accelerated slidetravel(longitudinal axes Z, lateral axes X.) | 5200; 2000 |
| Main drive electrical motor power, kW | 15 |
| Overall dimensions, mm (length/**width/height**), mm | 1780/1550 |
| Overall dimensions, mm (**length**/width/height), mm<br>with RMTs 1500mm:<br>with RMTs 3000mm: | 3740<br>5240 |
| Lathe weight (no more than), kg<br>with RMTs 1500mm:<br>with RMTs 3000mm: | 4840<br>5750 |

| **№** | **Identity** | **Unitofmeasure** | **Priceincluding VAT(UZS)** |
|---|---|---|---|
| **1** | *1M63H - SCREW-CUTTING LATHE RMT-3000* | **set** | **874 000 000** |
| **2** | *1M63H - SCREW-CUTTING LATHE RMT-1500* | **set** | **793 500 000** |

***Form of payment:***100% prepayment or letter of credit.

*Terms of delivery: FCA*

***Price for 05.01.2022 y***

**Product prices are subject to change, due to changes in the cost of raw materials and materials.*

# NF-630-03 VERTICAL MILLING AND BORING LATHE


Vertical milling and boring lathe with numerical control (CNC) is designed for complex processing by the method of milling, drilling, boring and screw cutting parts, including body and base, made of ferrous, non-ferrous metals and some types of plastics, under the control of a numerical control system at machine-building enterprises with small-scale-batch and medium-scale-batch production.

| **Technical characteristics** | **NF-630-03** |
|---|---|
| Dimensions of working surface of table | 800/500 |
| Admitted dimensions of workpiece, mm | 800x500x500 |
| Admitted weight of workpiece, kg | 500 |
| Leastdistancefrom the end of the spindle to the table mirror, mm | 180 |
| Traverse capability of table along the axis X, mm | 630 |
| Admittedcarriage advance with workpiecewith the table along the Y axis, mm | 400 |
| Admittedadvanceof the spindle headstock with the tool along the Z axis, mm | 500 |
| Feed range, mm / min (by coordinates -X; -Y; -Z) | 1..4000 |
| Positioning accuracy, mm | 0,01 |
| Position repeatability, mm | 0,01 |
| Power of main engine, kW no more than | 10 |
| Admittedtorque on the spindle, n.m | 480 |
| Spindle range of rpm during stepless regulation, rpm min-1 | 80-3550 |
| Total power, kW | 40 |
| Lathe overall dimensions, mm (length/width/height), | 2900x3150x3500 |
| Lathe weight, kg | 6700 |
| Spindle end with cone(GOST 24644) | 50 |

| **№** | **Identity** | **Unitofmeasure** | **Priceincluding VAT(UZS)** |
|---|---|---|---|
| **1** | *NF-630-03 VERTICAL MILLING AND BORING LATHE* | **set** | **828 000 000** |

***Form of payment:***100% prepayment or letter of credit.

*Terms of delivery: FCA*

***Price for 05.01.2022 y***

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# HT-425 UNIVERSAL SCREW-CUTTING LATHE

The lathe model HT-425 meant for performing miscellaneouslathe works, as well as threading(metric, inch long, modular and pitched) has modern technical characteristics are provided for parts cutting with progressive regime of cutting, as well as sufficient rigidity and vibration resistance,highly-mechanized, easy to manage.The lathe uses spindle unit with double-row roller bearings, that ensures high precision during processing.The 4-stepped mechanical gearbox, high-quality frequency control unit in combination with 15 kW main spindle make it possible to accurately balance the speed and provide high torque for heavy processing.

In all friction pairs of the caliper, the applied anti-friction material "ZEDEX" is used, which significantly increases the service life of the machine.The tailstock has a manual movement mechanism that does not require large efforts to move it.

| Technical characteristics | Parameters |
|---|---|
| Admitted diameter of set workpiece over frame, mm | 850 |
| Admitted diameter of workpiece over bed gap, mm | 1150 |
| Admitted diameter of workpiece over support, mm | 520 |
| Extreme length of workpiece in centers, mm | 3000 |
| Height positionable cutter, mm | 32x32 |
| Width of frame,mm | 600 |
| Spindle flange end (GOST 12593-93) | 11M |
| Cone in the headstock spindle (GOST 25557) | Metric 120 |
| Quill's centre with cone "Morse" | 6 |
| Diameter of cylindrical hole in spindle, mm | 100 |
| Spindle range of rpm | 5…630 |
| Number spindle rotational range steps | 4 |
| Maximal weight of workpiece in centers, kg | 4000 |

| № | Identity | Unitofmeasure | Priceincluding VAT(UZS) |
|---|---|---|---|
| **1** | *HT-425 UNIVERSAL SCREW-CUTTING LATHE* | **set** | **948 750 000** |

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# NF-1200 UNIVERSAL KNEE-TYPE MILLINGLATHE

Universal knee-type milling machine NF-1200 is equipped with servo drives for feeds and designed to perform a variety of milling operations with cylindrical, face, end, form and other milling cutters. It is used for processing horizontal and vertical planes, grooves, frames, corners, models, stamps, molds and other parts made of steel, cast iron, non-ferrous metals, their alloys and other materials.

The technological capabilities of the machines are expanded through the use of a universal rotary head -the milling cutter can be installed at almost any spatial angle, thereby using the possibilities of both horizontal and vertical milling.

| Technical characteristics | Parameters |
|---|---|
| Table working surface dimensions | mm (length / width)1600/500 |
| Overall dimensions of workpiece | mm 1200x500x500 |
| Admitted weight of workpiece | kg 1800 |
| Maximum/minimum spacing of the spindle end from table mirror | mm 50/550 |
| Maximum movement of table along X-axis | mm1200 |
| Maximum movement of table carriage along Y- axis | mm700 |
| Maximum movement of spindle unit along Z-axis | mm 500 |
| Feed | mm / min |
| FeedratealongX-axis | 10 – 1000 |
| FeedratealongY-axis | 10 – 1000 |
| FeedratealongZ-axis | 5 – 500 |
| Rapid traverse | mm / min |
| Rapid traverse along X-axis | 2200 |
| Rapid traversealong Y-axis | 2200 |
| Rapid traverse along Z-axis | 1100 |
| Main engine power | kW,not less than 7.5 |
| Maximum torque on spindle | N • m 480 |
| Spindle speed range | rpm 30 ... 2050 |
| Overall dimensions (length / width / height) | mm 2480 x 2260 x 2180 |

| № | Identity | Unitofmeasure | Priceincluding VAT(UZS) |
|---|---|---|---|
| **1** | *NF-1200 UNIVERSAL KNEE-TYPE MILLING LATHE* | **set** | **839 500 000** |

***Form of payment:*** 100% prepayment or letter of credit.

*Terms of delivery: FCA*

***Price for 05.01.2022 y***

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**NT-250-01UNIVERSAL LATHE**


The universal lathe with an electronic control system is designed for turning parts of the type of bodies of revolution with a stepped, tapered and spherical profile, including cutting single-and multi-start threads and worms, as well as tapered threads with a variable pitch in manual and semi-automatic mode.Universality.Simpleness to manage.Advanced functions of universal lathe.The presence of a mode for maintaining a constant cutting speed during face turning.Automatic processing cycle up to 99 programmable blocks:

-The set-up of cycle executes in automatic mode;

-Ability of frame-by-frame execution of programs;

-The geometry of the cycle is in the relative frame of reference of the dimensions of the displacements, which allows you to move the entire cycle along the axes about X and Z to any place in the work zone.

Electronic programming.Limiting the work area.Run-timePrompt adjustment of modes and sizes in the process of working movements.

| Technical characteristics | Parameters |
|---|---|
| Admitted diameter of set work piece over frame, mm | 500 |
| Admitted diameter of work piece over support, mm | 210 |
| Extreme length of set work piece in centers, mm | 1000 |
| Extreme length of product processing in centers, mm | 905 |
| Spindle's centre with cone "Morse" (GOST 13214-79) | 6 |
| Quill's centre with cone "Morse" (GOST 13214-79) | 5 |
| Spindle range of rpm | 2…2500 |
| Range of reverse feed and thread pitch (stepless regulation), mm / r | 0…300 |
| Discreteness of assignment of displacements, mm (longitudinal, Z-axis; transverse, X-axis) | 0.001;0.001 |
| Race velocity, mm / min, not less | 4500;4500 |
| Main motion electric motor power, kW, | 7, 0 |
| Lathe overall dimensions, mm (length/width/height), mm | 320x1500x1620 |
| Lathe weight, kg | 3100 |

| № | Identity | Unit of measure | Price including VAT(UZS) |
|---|---|---|---|
| **1** | *NT-250-01 UNIVERSAL LATHE* | **set** | **517 500 000** |

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# *HULL-GRINDINGMACHINE 3N340*

Industrial, reliable and powerful double-sided hull-grinding machine.Designed for sharpening cutters up to 100 mm high, sharpening drills from 6 mm to 60 mm, sharpening locksmith tools, as well as performing locksmith work (deburring, chamfering, etc.).

| **Technical characteristics** | **Parameters** |
|---|---|
| Number of grinding wheels, pcs | 2 |
| Height of the centers of grinding wheels from the floor, mm, not less | 900 |
| Distance between grinding wheels, mm | 710 |
| Circumferential speed, m / s | 30 |
| AC power supply parameters: - voltage, V / - frequency, Hz | 380/50 |
| Electric motor: - power, kW / - rotation frequency, rpm | 3/1500 |
| Machine overall dimensions, mm | 930x640x1300 |
| Machine weight, no more, kg | 350 |

| **№** | **Identity** | **Unit of measure** | **Price including VAT(UZS)** |
|---|---|---|---|
| **1** | HULL-GRINDING MACHINE 3N340 | **set** | **33 350 000** |

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# PENDULUM CUTTING MACHINE PCM-400

| **Technical characteristics** | **Parameters** |
|---|---|
| Circle diameter, mm | 45 |
| Diameter of a round pipe at an angle of 0 °, mm | 120 |
| Diameter of a round pipe at an angle of 45 °, mm | 100 |
| Dimensions of an equal angle corner at an angle of 0 °, mm | 100x100 |
| Dimensions of an equal angle corner at an angle of 45 °, mm | 80x80 |
| Channel dimensions at an angle of 0 °; 45 °, mm | 120x120 |
| Swing angle of the pendulum unit ° | 120 |
| Electric motor | ±45 |
| Synchronous rotation frequency, rpm | 4 |
| Mains voltage, V | 3000 |
| Spindle speed, rpm | 380 |
| Abrasive wheel dimensions, mm | 3500 |
| Overall dimensions (without roller table), mm, no more | 400 x 400 X 320 |
| Weight, kg, no more (without roller table) | 112 |

Pendulum cutting machine model PCM - 400 is designed for cutting pipes, fittings, rolled metal and materials of similar physical properties, using abrasive reinforced wheels manufactured in accordance with GOST 21963, in the conditions of assembly sites and production bases.

| № | Identity | Unit of measure | Price including VAT(UZS) |
|---|---|---|---|
| **1** | PENDULUM CUTTING MACHINE PCM-400 | **set** | **44 275 000** |

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# *SPECIAL DRILLING MACHINE 21N16A*

High-precision, reliable special bench-top drilling machine.Designed for drilling holes up to 16 mm.Used for mechanization of drilling operations.

| **Technical characteristics** | **Parameters** |
|---|---|
| The largest diameter of drilling, mm | 16 |
| The greatest spindle stroke, mm | 100 |
| Distance from the lower end of the spindle to the plate, mm (largest / smallest) | 410/110 |
| Spindle taper according to GOST 25557-82-Morse | 2 |
| The greatest feed force (with an effort on the handle 80N), N | 700 |
| Spindle speed, rpm | 500, 900, 1500, 2700, 4000 |
| Supply voltage, V | 380 |
| Electric motor power, kW | 1,1 (0,75) |
| Rotation frequency of the electric motor, rpm | 1420 (1365) |
| Table working surface dimensions, mm | 320x360 |
| Overall dimensions of the machine, mm (length / width / height) | 800 x 465 x 860 |
| Machine weight, kg | 160(100) |

| № | Identity | Unit of measure | Price including VAT(UZS) |
|---|---|---|---|
| **1** | SPECIAL DRILLING MACHINE 21N16A | **set** | **25 300 000** |

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