

UNIVERSAL LATHES

16GS30 (distance between centers -1500mm)

16GS30-01 (distance between centers -2000mm)

16GS30-02 (distance between centers -3000mm)



Lathes are intended for treating the lengthy details like pipe or bar. The turning pipe (bar) with a greatest diameter of 89 mm is passed through the hollow spindle, is pressed by cartridge and revolves together with the spindle. On the machine tools possibly also the fulfillment of the most diverse turning work, and also the cutting of metric, inch, modular and pitch threads. Machine tools are equipped with the apron of model 067, that have its own drive of the quick traverse of carriage and support, which improves the dynamics of the work of machine tool at the fast motion and by the gearbox of model 077, which makes it possible to cut thread 11 and 19 threads to 1" without the replacement of the gears of the guitar.

Lathes are equipped with the accelerate travel drive of carriage and rest. This mechanism improves lathe's dynamics.

Model	16GS30	16GS30-01	16GS30-02
Swing diameter, mm over the bed	630		
over the carriage	420		
Max. length of the worked blank, mm	1500	2000	3000
Center in spindle with cone (GOSTJ3214-79)	Metric 100		
Spindle end (GOST 12593-72)	11K		
Diameter of the spindle cylindrical hole, mm	95		
Max. height of cutting tool adjusted in the machine, mm	25		
Spindle speed number: direct rotation	21		
reverse rotation	12		
Range of spindle rotational frequency, min-1	16...1600		
Range of operational carriage feeds, mm/rev Longitudinal	0,05...2,8		
transverse	0,025...1,4		
Range of thread spacing: metric, mm	0,5...112		
inch, threads of a screw number per 1"	56...0,5		
modulus, modulus	0,5...112		
pitch, pitch	56...0,5		
Max. torque on the spindle, kNm	1		
Main movement drive power, kW	11		
Machine overall dimensions, mm, not more Lenght	3380	3880	4880
Width	1265		
Height	1470		
Machine weight (net/gross), kg, not more	3600/4040	4100/4570	4600/5100
Machine packing dimensions, mm, not more Lenght	3580	4080	5080
Width	1465		
Height	1815		
Accuracy class (GOST 8-82)	Normal		

UNITS FOR UNIVERSAL LATHE'S

Feeding Box 16B20P.070.000 077.0000.000

Feeding box is designed for lathes with swing diameter over the bed not more than 500 mm. It changes ratio when rotation from feeding box's input shaft to lathe's guidescrew or guideshaft is passing. Apron converts rotary motion of the feeding shaft and feeding screw in carriage longitudinal motion and rest cross motion

Feeding Box	
Distance between axis of feed shaft and feed screw, mm	63+0,05
Advances quantity:	
feed screw	
16B20P.070.000	16
077.0000.000	18
feed shaft	16
Feeding Box ratio:	
for feeding	0,0283...0,3963
for metric thread	0,1...1,4
for pitch thread	0,0906...1,27
Permissible torque:	
for feed screw bush, НМ (кГМ)	50(5)
for feed shaft bush, НМ (кГМ)	20(2)
Overall dimensions, mm	
Lenght	760
Width	215
Height	290
Weight net/gross, kg, not more	73/93
Packing dimensions, mm	
(5 pcs. per box)	
Lenght	1300
Width	890
Height	475

LATHE'S APRON 16B.20P.061.000 16B.16P.062.000 067.0000.000

LATHE'S APRON	
Distance between apron top and feeding shaft, mm	177+0,05
Distance between apron top and lath gear axis, mm	65,2+0,05
Lengthwise movement per one feed shaft turnover, mm	4
Limb-division value, mm	0,1
The most tractive power passing by apron, kN (kGp):	
16B.20П.061.000 067.0000.000	10(1000)
16B.16П.062.000	8(800)
Accelerate travel drive power, kWt	
067.0000.000	0,37
Overall dimensions, (LxBxH), not more, mm	
16B.20P.061.000, 067.0000.000	665x340x390
16B.16P.062.000	525x330x360
067.0000.000	655x340x450
Weight net/gross, kg, not more	
16B.20П.061.000, 067.0000.000	100/125
16B.16П.062.000	85/105

Packing dimensions, mm (4 pcs. per box)	16B.20P.061.000	1300x890x475
	16B.16P.062.000	1300x890x475
	067.0000.000	1300x890x520
Box weight gross (4 pcs.), kg, 067.0000.000	16B.20P.061.000,	480
	16B.16P.062.000	420