



KAMAZ
Publicly
Traded
Company

REPAIR AND TOOL MAKING PLANT

Tools

2020

DRILLS

Types	Parameters
Twist drills	D - 1...10 mm L - 24...185 mm
Auger drills	D - 2...25 mm L - 65...980 mm MK - 1...3 ω - 60°
Drills with a thickened core	D - 1,1...16,75 mm MK - 1,2 L - 35...620 mm
Centre drills	D - 1,6...10 mm L - 21...128 mm
Twist step drills	d - 2,5...26,5 mm D - 3,4...33 mm L - 70...334 mm MK - 1...4
Solid carbide drills	D - 5...20 mm L - 50...150 mm
Inserted-blade drills with throwaway inserts	D - 20...60 mm L - 100...500 mm
Inserted-blade drills with brazed plates	D - 20...60 mm L - 100...500 mm

CORE DRILLS

Types	Parameters
Solid core drills for through holes	D - 10...120 mm, L - 150...350 mm
Solid core drills for blind holes	D - 10...120 mm, L - 150...350 mm
Shell-type core drills for through holes	D - 10...120 mm, L - 150...350 mm
Inserted-blade core drills with carbide blade mechanical mounting	D - 10...120 mm, L - 150...350 mm Accuracy: 0,02 mm.
Inserted-blade core drills with brazed plates	D - 10...120 mm, L - 150...350 mm
Inserted-blade shell core drills	D - 10...120 mm, L - 150...350 mm

REAMERS



Types	Parameters
Machine reamers	D - 10...80 mm, L - 150...350 mm
Hand reamers	D - 10...80 mm, L - 150...350 mm
Shell reamers	D - 25...80 mm, L - 40...100 mm

MILLING CUTTERS

Types	Parameters
Slitting and cutoff milling cutters	D - 20...200 mm B - 2...10 mm
Shank-type interlocking side milling cutters	D - 20...200 mm H - 10...150 mm L - 40...250 mm
Solid face milling cutters	D - 20...200 mm H - 10...150 mm
Interlocking side face milling cutter	D - 20...200 mm H - 10...150 mm
Involute gear disk cutters	D - 50...150 mm B - 2...20 mm
Involute end mills	D - 5...20 mm L - 50...100 mm

MILLING CUTTERS

Types	Parameters	Remarks
Solid double-ended side mills	D - 50...200 mm	Design and dimensions as per customer drawings or the drawings of Repair & Tooling plant
Solid side milling cutters	D - 50...200 mm	Possible configurations: straight-tooth and staggered-tooth
Interlocking double-ended side mills	D - 50...200 mm	
Interlocking side milling cutters	D - 50...200 mm	

CUTTING TOOLS

Types	Parameters
Cutters with negative geometry	B - 10...60 mm; H - 10...80 mm; L - 50...100 mm.
OD cutting tools	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Copying tools	B - 10...60 mm; H - 10...250 mm; L - 100...250 mm.
Cutoff tools	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Boring cutters	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Necking tools	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Shaping cutters	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Relieving tools	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Reciprocating gear cutting tools	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Chamfering tools	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.
Round-nose tools	B - 10...60 mm; H - 10...80 mm; L - 100...250 mm.

CUTTING TOOLS

Types	Parameters
Profiled blades	B - 10...60 mm H - 10...80 mm L - 100...250 mm
Side-facing tools	D - 10...80 mm L - 100...250 mm
Shaper-cutting tools	B - 10...60 mm H - 10...80 mm L - 100...250 mm
Slotting tools	B - 10...60 mm H - 10...80 mm L - 100...250 mm
Thread-cutting tools	B - 10...60 mm H - 10...80 mm L - 100...250 mm

THREAD-CUTTING TOOLS

Types	Parameters
Complete and single taps	D - M4...M80 mm; L - 55...300 mm; P - 0,7...6 mm.
Machine taps	D - M4...M80 mm; L - 55...300 mm; P - 0,7...6 mm.
Tapered taps	D - M4...M80 mm; L - 55...300 mm; P - 0,7...6 mm.
Rack-type tools for outside metric threads	D - M4...M80 mm; L - 55...300 mm; P - 0,7...6 mm.
Rack-type tools for shaving cutters	B - 5 mm; L - 30 mm; H - 100 mm; P - 1,5...2,75 mm.
Thread-rolling tools	D - 50...220 mm; L - 25...170 mm; P - 0,7...3 mm.
Spline rolling tools	D - 50...220 mm; L - 25...200 mm; P - 0,7...6 mm.
Profiling rollers	D - 50...220 mm; L - 25...50 mm; P - 0,7...6 mm.

GEAR CUTTING TOOLS

Types	Parameters
Rotary gear shaving tools	D - 150...220 mm; B - 20...40 mm; Module 3...6 mm.
Deep counterbore-type gear cutters	D - 40...150 mm; L - 20...50 mm; Module 2...5 mm.
Shank-type gear cutters	D - 40...240 mm; L - 20...180 mm; Module 2...5 mm.
Disk-type gear cutters	D - 40...240 mm; L - 20...50 mm; Module 2...5 mm.
Spur-type gear-shaping cutters	D - 40...240 mm; L - 20...50 mm; Module 2...5 mm.
Solid worm gear hobs	D - 10...180 mm; L - 20...200 mm; Module 0,5...12 mm.
Solid worm spline hobs	D - 10...180 mm; L - 20...200 mm; Module 0,5...10 mm.

BORING AND BACKUP TOOLS

Types	Parameters
Micro-bores	d - 16...32 mm L - 24,5...65 mm f - 0.2...10.5 mm
Cutter inserts	d - 16...32 mm L - 24,5...65 mm f - 0.2...10.5 mm
Tap inserts	D - 13...60 mm d - 4,5...32 mm L - 26,5...105 mm l - 19,2...63 mm
Tap protrusion inserts	D - 13...60 mm d - 4,5...32 mm L - 47,5...199 mm l - 19,5...63 mm S - 3,4...23 mm

CHUCKS

Types	Parameters
Turning chucks	D - 160...500 mm
Floating chucks	It's possible to manufacture quick-change floating chucks with a set-back balance for taps and reamers with spline driving dogs.
Wedge chucks	
Collet chucks	Possible configurations: <ul style="list-style-type: none"> - With small accuracy, for blank parts with a small diameter deviation (0,5...1 mm); - With particular accuracy.
Boring chucks	Manufacturing as per customer drawings
Quick-change tap chucks	D - 13...60 mm d - 23...95,5 mm Tr - 16x1,5...48x2 L - 118...244 mm l - 45...124 mm

HONING WHEELS

Types	Parameters
Honing wheels for long and short parts	D - 31...104,7 mm d - 16...92 mm L - 58...350 mm
Honing wheels for piston blocks	D - 100...250 mm L - до 1550 mm
Honing wheels for connecting rods	D - 44...86 mm
Honing wheels for propshafts	d - 50...60 mm L - 450...475 mm

ROLLER TOOLS

Types	Parameters
Roller tools for cylindrical surfaces	D - 25...60 mm d - 9...180 mm L - 156...528 mm
Roller tools for tapered surfaces	D - 52...150 mm d - 23...47 mm L - 205...510 mm Tr - 48x2...48x3 MK - 3...5
Roller tools for spherical surfaces	D - 36...95 mm d - 15...47 mm R - 4...25 mm L - 131...433 mm
Roller tools for end surfaces	D - 40...245 mm d - 32...170 mm L - 160...273 mm

BUSHINGS



Types	Parameters
Split bushings	D - 12...45 mm d - 3...20 mm L - 66...160 mm
Alignment bushings	d - от 3 mm L - 66...160 mm
Splined bushings	Manufacturing as per customer drawings for any part configuration.
Reducing bushings	Manufacturing as per customer drawings for any part configuration.

COLLETS

Types	Parameters
Gripping tool collets	D - 28...37 mm d - 2...15 mm L - 75...100 mm
Feed chucks	d - 3 mm and more A required configuration product will be designed and manufactured as per customer drawings or technical design assignment.
Stay collets	d - 3 mm and more A required configuration product will be designed and manufactured as per customer drawings or technical design assignment.

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