

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	2	(+0.000/-0.008)	38	(+0/+1)		2
GU20	2	(+0.000/-0.008)	38	(+0/+1)	0.4	2
GU20	2	(+0.000/-0.008)	40	(+0/+1)		2
GU20	2	(+0.000/-0.008)	49	(+0/+1)		2
GU20	2	(+0.000/-0.008)	50	(+0/+1)		2
GU20	2	(+0.000/-0.008)	63.5	(+0/+1)		3
GU20	2	(+0.000/-0.008)	100	(+0/+1)		5
GU20	3	(+0.000/-0.008)	38	(+0/+1)		4
GU20	3	(+0.000/-0.008)	38	(+0/+1)	0.4	4
GU20	3	(+0.000/-0.008)	38.5	(+0/+1)		4
GU20	3	(+0.000/-0.008)	39	(+0/+1)		4
GU20	3	(+0.000/-0.008)	39	(+0/+1)	0.4	4
GU20	3	(+0.000/-0.008)	40	(+0/+1)		4
GU20	3	(+0.000/-0.008)	40	(+0/+1)	0.4	4
GU20	3	(+0.000/-0.008)	46	(+0/+1)		5
GU20	3	(+0.000/-0.008)	50	(+0/+1)		5
GU20	3	(+0.000/-0.008)	50	(+0/+1)	0.4	5
GU20	3	(+0.000/-0.008)	50.5	(+0/+1)		5
GU20	3	(+0.000/-0.008)	57	(+0/+1)		6
GU20	3	(+0.000/-0.008)	60	(+0/+1)		6
GU20	3	(+0.000/-0.008)	60	(+0/+1)	0.4	6
GU20	3	(+0.000/-0.008)	61	(+0/+1)		6
GU20	3	(+0.000/-0.008)	64	(+0/+1)		7
GU20	3	(+0.000/-0.008)	65	(+0/+1)		7
GU20	3	(+0.000/-0.008)	65	(+0/+1)	0.4	7
GU20	3	(+0.000/-0.008)	70	(+0/+1)		7
GU20	3	(+0.000/-0.008)	75	(+0/+1)		8
GU20	3	(+0.000/-0.008)	75	(+0/+1)	0.4	8
GU20	3	(+0.000/-0.008)	76	(+0/+1)		8
GU20	3	(+0.000/-0.008)	80	(+0/+1)		8
GU20	3	(+0.000/-0.008)	100	(+0/+1)		10
GU20	3	(+0.000/-0.008)	100	(+0/+1)	0.4	10
GU20	3	(+0.000/-0.008)	120	(+0/+1)		13

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA.		L (mm)		Chamfer x45°(mm)	UNIT WEIGHT (g)
	(mm)	TOL. (mm)	TOL. (mm)	TOL. (mm)		
GU20	3	(+0.000/-0.008)	150	(+0/+1)		16
GU20	3	(+0.000/-0.008)	150	(+0/+1)	0.4	16
GU20	4	(+0.000/-0.009)	40	(+0/+1)		7
GU20	4	(+0.000/-0.009)	40	(+0/+1)	0.4	7
GU20	4	(+0.000/-0.009)	45	(+0/+1)		8
GU20	4	(+0.000/-0.009)	45	(+0/+1)	0.4	8
GU20	4	(+0.000/-0.009)	50	(+0/+1)		9
GU20	4	(+0.000/-0.009)	50	(+0/+1)	0.4	9
GU20	4	(+0.000/-0.009)	50.5	(+0/+1)		9
GU20	4	(+0.000/-0.009)	51	(+0/+1)		9
GU20	4	(+0.000/-0.009)	55	(+0/+1)		10
GU20	4	(+0.000/-0.009)	55	(+0/+1)	0.4	10
GU20	4	(+0.000/-0.009)	57	(+0/+1)		10
GU20	4	(+0.000/-0.009)	60	(+0/+1)		11
GU20	4	(+0.000/-0.009)	60	(+0/+1)	0.4	11
GU20	4	(+0.000/-0.009)	63	(+0/+1)		12
GU20	4	(+0.000/-0.009)	63	(+0/+1)	0.4	12
GU20	4	(+0.000/-0.009)	64	(+0/+1)		12
GU20	4	(+0.000/-0.009)	65	(+0/+1)		12
GU20	4	(+0.000/-0.009)	65	(+0/+1)	0.4	12
GU20	4	(+0.000/-0.009)	70	(+0/+1)		13
GU20	4	(+0.000/-0.009)	72.5	(+0/+1)		13
GU20	4	(+0.000/-0.009)	75	(+0/+1)		14
GU20	4	(+0.000/-0.009)	75	(+0/+1)	0.4	14
GU20	4	(+0.000/-0.009)	76	(+0/+1)		14
GU20	4	(+0.000/-0.009)	80	(+0/+1)		15
GU20	4	(+0.000/-0.009)	83.5	(+0/+1)		15
GU20	4	(+0.000/-0.009)	85	(+0/+1)		16
GU20	4	(+0.000/-0.009)	87	(+0/+1)		16
GU20	4	(+0.000/-0.009)	95.5	(+0/+1)		18
GU20	4	(+0.000/-0.009)	100	(+0/+1)		18
GU20	4	(+0.000/-0.009)	100	(+0/+1)	0.4	18

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	4	(+0.000/-0.009)	133	(+0/+1)		25
GU20	4	(+0.000/-0.009)	150	(+0/+1)		28
GU20	4	(+0.000/-0.009)	150	(+0/+1)	0.4	28
GU20	4.15	(+0.000/-0.009)	55	(+0/+1)		11
GU20	4.15	(+0.000/-0.009)	100	(+0/+1)		20
GU20	4.16	(+0.000/-0.009)	100	(+0/+1)		20
GU20	4.70	(+0.000/-0.009)	100	(+0/+1)		25
GU20	4.78	(+0.000/-0.009)	62	(+0/+1)		12
GU20	4.81	(+0.000/-0.009)	55	(+0/+1)		15
GU20	4.81	(+0.000/-0.009)	75	(+0/+1)		20
GU20	4.81	(+0.000/-0.009)	100	(+0/+1)		27
GU20	4.85	(+0.000/-0.009)	100	(+0/+1)		27
GU20	4.85	(+0.000/-0.009)	150	(+0/+1)		41
GU20	5	(+0.000/-0.009)	50	(+0/+1)		14
GU20	5	(+0.000/-0.009)	50	(+0/+1)	0.5	14
GU20	5	(+0.000/-0.009)	51	(+0/+1)		15
GU20	5	(+0.000/-0.009)	55	(+0/+1)		16
GU20	5	(+0.000/-0.009)	55	(+0/+1)	0.5	16
GU20	5	(+0.000/-0.009)	60	(+0/+1)		17
GU20	5	(+0.000/-0.009)	60	(+0/+1)	0.5	17
GU20	5	(+0.000/-0.009)	62	(+0/+1)		18
GU20	5	(+0.000/-0.009)	62	(+0/+1)	0.5	18
GU20	5	(+0.000/-0.009)	63	(+0/+1)		18
GU20	5	(+0.000/-0.009)	63	(+0/+1)	0.5	18
GU20	5	(+0.000/-0.009)	64	(+0/+1)		18
GU20	5	(+0.000/-0.009)	65	(+0/+1)		19
GU20	5	(+0.000/-0.009)	65	(+0/+1)	0.5	19
GU20	5	(+0.000/-0.009)	70	(+0/+1)		20
GU20	5	(+0.000/-0.009)	75	(+0/+1)		22
GU20	5	(+0.000/-0.009)	75	(+0/+1)	0.5	22
GU20	5	(+0.000/-0.009)	80	(+0/+1)		23
GU20	5	(+0.000/-0.009)	85	(+0/+1)		25

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	5	(+0.000/-0.009)	90	(+0/+1)		26
GU20	5	(+0.000/-0.009)	100	(+0/+1)		29
GU20	5	(+0.000/-0.009)	100	(+0/+1)	0.5	29
GU20	5	(+0.000/-0.009)	150	(+0/+1)		43
GU20	5	(+0.000/-0.009)	150	(+0/+1)	0.5	43
GU20	5.06	(+0.000/-0.009)	100	(+0/+1)		29
GU20	5.10	(+0.000/-0.009)	100	(+0/+1)		30
GU20	5.15	(+0.000/-0.009)	55	(+0/+1)		17
GU20	5.15	(+0.000/-0.009)	75	(+0/+1)		23
GU20	5.15	(+0.000/-0.009)	100	(+0/+1)		31
GU20	5.47	(+0.000/-0.009)	100	(+0/+1)		34
GU20	5.54	(+0.000/-0.009)	55	(+0/+1)		19
GU20	5.54	(+0.000/-0.009)	75	(+0/+1)		27
GU20	5.54	(+0.000/-0.009)	100	(+0/+1)		35
GU20	6	(+0.000/-0.009)	35	(+0/+1)		15
GU20	6	(+0.000/-0.009)	35	(+0/+1)	0.5	15
GU20	6	(+0.000/-0.009)	40	(+0/+1)		17
GU20	6	(+0.000/-0.009)	40	(+0/+1)	0.5	17
GU20	6	(+0.000/-0.009)	50	(+0/+1)		21
GU20	6	(+0.000/-0.009)	50	(+0/+1)	0.5	21
GU20	6	(+0.000/-0.009)	51	(+0/+1)		21
GU20	6	(+0.000/-0.009)	55	(+0/+1)		23
GU20	6	(+0.000/-0.009)	57	(+0/+1)		23
GU20	6	(+0.000/-0.009)	58	(+0/+1)		24
GU20	6	(+0.000/-0.009)	58.5	(+0/+1)		24
GU20	6	(+0.000/-0.009)	60	(+0/+1)		25
GU20	6	(+0.000/-0.009)	60	(+0/+1)	0.5	25
GU20	6	(+0.000/-0.009)	60.5	(+0/+1)		25
GU20	6	(+0.000/-0.009)	63	(+0/+1)		26
GU20	6	(+0.000/-0.009)	63	(+0/+1)	0.5	26
GU20	6	(+0.000/-0.009)	65	(+0/+1)		27
GU20	6	(+0.000/-0.009)	65	(+0/+1)	0.5	27

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	6	(+0.000/-0.009)	66	(+0/+1)		27
GU20	6	(+0.000/-0.009)	66	(+0/+1)	0.5	27
GU20	6	(+0.000/-0.009)	67	(+0/+1)		28
GU20	6	(+0.000/-0.009)	67	(+0/+1)	0.5	28
GU20	6	(+0.000/-0.009)	70	(+0/+1)		29
GU20	6	(+0.000/-0.009)	75	(+0/+1)		31
GU20	6	(+0.000/-0.009)	75	(+0/+1)	0.5	31
GU20	6	(+0.000/-0.009)	76	(+0/+1)		32
GU20	6	(+0.000/-0.009)	80	(+0/+1)		33
GU20	6	(+0.000/-0.009)	80	(+0/+1)	0.5	33
GU20	6	(+0.000/-0.009)	83	(+0/+1)		34
GU20	6	(+0.000/-0.009)	83	(+0/+1)	0.5	34
GU20	6	(+0.000/-0.009)	84	(+0/+1)		35
GU20	6	(+0.000/-0.009)	86	(+0/+1)		36
GU20	6	(+0.000/-0.009)	86	(+0/+1)	0.5	36
GU20	6	(+0.000/-0.009)	90	(+0/+1)		37
GU20	6	(+0.000/-0.009)	96	(+0/+1)		40
GU20	6	(+0.000/-0.009)	100	(+0/+1)		41
GU20	6	(+0.000/-0.009)	100	(+0/+1)	0.5	41
GU20	6	(+0.000/-0.009)	116	(+0/+1)		48
GU20	6	(+0.000/-0.009)	120	(+0/+1)		50
GU20	6	(+0.000/-0.009)	150	(+0/+1)		62
GU20	6	(+0.000/-0.009)	150	(+0/+1)	0.5	62
GU20	6	(+0.000/-0.009)	160	(+0/+3)		67
GU20	6	(+0.000/-0.009)	200	(+0/+3)		83
GU20	6.25	(+0.000/-0.009)	70	(+0/+1)		32
GU20	6.33	(+0.000/-0.009)	55	(+0/+1)		25
GU20	6.33	(+0.000/-0.009)	75	(+0/+1)		35
GU20	6.33	(+0.000/-0.009)	100	(+0/+1)		46
GU20	6.33	(+0.000/-0.009)	150	(+0/+1)		69
GU20	6.33	(+0.000/-0.009)	230	(+0/+3)		106
GU20	6.40	(+0.000/-0.009)	100	(+0/+1)		47

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	6.40	(+0.000/-0.009)	150	(+0/+1)		71
GU20	6.55	(+0.000/-0.009)	150	(+0/+1)		74
GU20	6.61	(+0.000/-0.009)	100	(+0/+1)		50
GU20	6.61	(+0.000/-0.009)	150	(+0/+1)		75
GU20	6.61	(+0.000/-0.009)	175	(+0/+3)		88
GU20	6.70	(+0.000/-0.009)	100	(+0/+1)		52
GU20	6.73	(+0.000/-0.009)	55	(+0/+1)		29
GU20	6.73	(+0.000/-0.009)	75	(+0/+1)		39
GU20	6.73	(+0.000/-0.009)	100	(+0/+1)		52
GU20	7	(+0.000/-0.009)	53	(+0/+1)		30
GU20	7	(+0.000/-0.009)	60	(+0/+1)		34
GU20	7	(+0.000/-0.009)	61	(+0/+1)		34
GU20	7	(+0.000/-0.009)	64	(+0/+1)		36
GU20	7	(+0.000/-0.009)	74	(+0/+1)		42
GU20	7	(+0.000/-0.009)	74	(+0/+1)	0.6	42
GU20	7	(+0.000/-0.009)	80	(+0/+1)		45
GU20	7	(+0.000/-0.009)	100	(+0/+1)		56
GU20	7	(+0.000/-0.009)	150	(+0/+1)		84
GU20	7.10	(+0.000/-0.009)	55	(+0/+1)		32
GU20	7.10	(+0.000/-0.009)	75	(+0/+1)		43
GU20	7.10	(+0.000/-0.009)	100	(+0/+1)		58
GU20	7.10	(+0.000/-0.009)	230	(+0/+3)		133
GU20	7.80	(+0.000/-0.009)	79	(+0/+1)		55
GU20	7.92	(+0.000/-0.009)	55	(+0/+1)		40
GU20	7.92	(+0.000/-0.009)	75	(+0/+1)		54
GU20	7.92	(+0.000/-0.009)	100	(+0/+1)		72
GU20	7.92	(+0.000/-0.009)	150	(+0/+1)		108
GU20	7.92	(+0.000/-0.009)	230	(+0/+3)		166
GU20	7.95	(+0.000/-0.009)	100	(+0/+1)		73
GU20	8	(+0.000/-0.009)	50	(+0/+1)		37
GU20	8	(+0.000/-0.009)	50	(+0/+1)	0.6	37
GU20	8	(+0.000/-0.009)	59	(+0/+1)		43

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	8	(+0.000/-0.009)	60	(+0/+1)		44
GU20	8	(+0.000/-0.009)	60	(+0/+1)	0.6	44
GU20	8	(+0.000/-0.009)	63	(+0/+1)		46
GU20	8	(+0.000/-0.009)	63	(+0/+1)	0.6	46
GU20	8	(+0.000/-0.009)	64	(+0/+1)		47
GU20	8	(+0.000/-0.009)	64	(+0/+1)	0.6	47
GU20	8	(+0.000/-0.009)	65	(+0/+1)		48
GU20	8	(+0.000/-0.009)	65	(+0/+1)	0.6	48
GU20	8	(+0.000/-0.009)	70	(+0/+1)		52
GU20	8	(+0.000/-0.009)	70	(+0/+1)	0.6	52
GU20	8	(+0.000/-0.009)	75	(+0/+1)		55
GU20	8	(+0.000/-0.009)	75	(+0/+1)	0.6	55
GU20	8	(+0.000/-0.009)	76	(+0/+1)		56
GU20	8	(+0.000/-0.009)	79	(+0/+1)		58
GU20	8	(+0.000/-0.009)	79	(+0/+1)	0.6	58
GU20	8	(+0.000/-0.009)	80	(+0/+1)		59
GU20	8	(+0.000/-0.009)	80	(+0/+1)	0.6	59
GU20	8	(+0.000/-0.009)	92	(+0/+1)		68
GU20	8	(+0.000/-0.009)	92	(+0/+1)	0.6	68
GU20	8	(+0.000/-0.009)	95	(+0/+1)		70
GU20	8	(+0.000/-0.009)	100	(+0/+1)		73
GU20	8	(+0.000/-0.009)	100	(+0/+1)	0.6	73
GU20	8	(+0.000/-0.009)	125	(+0/+1)		92
GU20	8	(+0.000/-0.009)	125	(+0/+1)	0.6	92
GU20	8	(+0.000/-0.009)	150	(+0/+1)		110
GU20	8	(+0.000/-0.009)	150	(+0/+1)	0.6	110
GU20	8	(+0.000/-0.009)	320	(+0/+5)		234
GU20	8.32	(+0.000/-0.009)	55	(+0/+1)		44
GU20	8.32	(+0.000/-0.009)	75	(+0/+1)		60
GU20	8.32	(+0.000/-0.009)	100	(+0/+1)		79
GU20	8.71	(+0.000/-0.009)	100	(+0/+1)		87
GU20	8.80	(+0.000/-0.009)	100	(+0/+1)		89

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA.		L (mm)		Chamfer x45°(mm)	UNIT WEIGHT (g)
	(mm)	TOL. (mm)	TOL. (mm)	TOL. (mm)		
GU20	9	(+0.000/-0.009)	64	(+0/+1)		60
GU20	9	(+0.000/-0.009)	84	(+0/+1)		78
GU20	9	(+0.000/-0.009)	84	(+0/+1)	0.6	78
GU20	9	(+0.000/-0.009)	100	(+0/+1)		93
GU20	9	(+0.000/-0.009)	120	(+0/+1)		111
GU20	9	(+0.000/-0.009)	150	(+0/+1)		139
GU20	9.51	(+0.000/-0.009)	100	(+0/+1)		104
GU20	9.51	(+0.000/-0.009)	230	(+0/+3)		239
GU20	10	(+0.000/-0.010)	50	(+0/+1)		58
GU20	10	(+0.000/-0.010)	60	(+0/+1)		69
GU20	10	(+0.000/-0.010)	60	(+0/+1)	0.6	69
GU20	10	(+0.000/-0.010)	65	(+0/+1)		75
GU20	10	(+0.000/-0.010)	65	(+0/+1)	0.6	75
GU20	10	(+0.000/-0.010)	67	(+0/+1)		77
GU20	10	(+0.000/-0.010)	70	(+0/+1)		80
GU20	10	(+0.000/-0.010)	70	(+0/+1)	0.6	80
GU20	10	(+0.000/-0.010)	72	(+0/+1)		83
GU20	10	(+0.000/-0.010)	72	(+0/+1)	0.6	83
GU20	10	(+0.000/-0.010)	73	(+0/+1)		84
GU20	10	(+0.000/-0.010)	75	(+0/+1)		86
GU20	10	(+0.000/-0.010)	75	(+0/+1)	0.6	86
GU20	10	(+0.000/-0.010)	76	(+0/+1)		87
GU20	10	(+0.000/-0.010)	76	(+0/+1)	0.6	87
GU20	10	(+0.000/-0.010)	80	(+0/+1)		92
GU20	10	(+0.000/-0.010)	80	(+0/+1)	0.6	87
GU20	10	(+0.000/-0.010)	89	(+0/+1)		102
GU20	10	(+0.000/-0.010)	89	(+0/+1)	0.6	102
GU20	10	(+0.000/-0.010)	90	(+0/+1)		103
GU20	10	(+0.000/-0.010)	90	(+0/+1)	0.6	87
GU20	10	(+0.000/-0.010)	94.5	(+0/+1)		108
GU20	10	(+0.000/-0.010)	100	(+0/+1)		115
GU20	10	(+0.000/-0.010)	100	(+0/+1)	0.6	115

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	10	(+0.000/-0.010)	102	(+0/+1)		117
GU20	10	(+0.000/-0.010)	104	(+0/+1)		119
GU20	10	(+0.000/-0.010)	104	(+0/+1)	0.6	87
GU20	10	(+0.000/-0.010)	125	(+0/+1)		143
GU20	10	(+0.000/-0.010)	125	(+0/+1)	0.6	143
GU20	10	(+0.000/-0.010)	135	(+0/+1)		155
GU20	10	(+0.000/-0.010)	150	(+0/+1)		172
GU20	10	(+0.000/-0.010)	150	(+0/+1)	0.6	172
GU20	10	(+0.000/-0.010)	200	(+0/+2)		229
GU20	10	(+0.000/-0.010)	230	(+0/+3)		263
GU20	10	(+0.000/-0.010)	310	(+0/+5)		356
GU20	10	(+0.000/-0.010)	320	(+0/+5)		368
GU20	10	(+0.000/-0.010)	330	(+0/+5)		379
GU20	10.50	(+0.000/-0.010)	120	(+0/+1)		151
GU20	11	(+0.000/-0.011)	50	(+0/+1)		70
GU20	11	(+0.000/-0.011)	76	(+0/+1)		106
GU20	11	(+0.000/-0.011)	95	(+0/+1)		132
GU20	11	(+0.000/-0.011)	95	(+0/+1)	0.6	132
GU20	11	(+0.000/-0.011)	100	(+0/+1)		139
GU20	11	(+0.000/-0.011)	120	(+0/+1)		166
GU20	11	(+0.000/-0.011)	150	(+0/+1)		208
GU20	11.05	(+0.000/-0.011)	100	(+0/+1)		140
GU20	11.10	(+0.000/-0.011)	120	(+0/+1)		169
GU20	12	(+0.000/-0.011)	60	(+0/+1)		99
GU20	12	(+0.000/-0.011)	60	(+0/+1)	0.8	99
GU20	12	(+0.000/-0.011)	65	(+0/+1)		107
GU20	12	(+0.000/-0.011)	65	(+0/+1)	0.8	107
GU20	12	(+0.000/-0.011)	72	(+0/+1)		119
GU20	12	(+0.000/-0.011)	72	(+0/+1)	0.8	119
GU20	12	(+0.000/-0.011)	74	(+0/+1)		122
GU20	12	(+0.000/-0.011)	75	(+0/+1)		124
GU20	12	(+0.000/-0.011)	75	(+0/+1)	0.8	124

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)		L (mm)		Chamfer x45°(mm)	UNIT WEIGHT (g)
		TOL. (mm)		TOL. (mm)		
GU20	12	(+0.000/-0.011)	76	(+0/+1)		126
GU20	12	(+0.000/-0.011)	80	(+0/+1)		132
GU20	12	(+0.000/-0.011)	80	(+0/+1)	0.8	132
GU20	12	(+0.000/-0.011)	84	(+0/+1)		139
GU20	12	(+0.000/-0.011)	90	(+0/+1)		149
GU20	12	(+0.000/-0.011)	90	(+0/+1)	0.8	149
GU20	12	(+0.000/-0.011)	100	(+0/+1)		165
GU20	12	(+0.000/-0.011)	100	(+0/+1)	0.8	165
GU20	12	(+0.000/-0.011)	102	(+0/+1)		168
GU20	12	(+0.000/-0.011)	102	(+0/+1)	0.8	168
GU20	12	(+0.000/-0.011)	103	(+0/+1)		170
GU20	12	(+0.000/-0.011)	103	(+0/+1)	0.8	170
GU20	12	(+0.000/-0.011)	104	(+0/+1)		171
GU20	12	(+0.000/-0.011)	119	(+0/+1)		196
GU20	12	(+0.000/-0.011)	119	(+0/+1)	0.8	196
GU20	12	(+0.000/-0.011)	122.5	(+0/+1)		202
GU20	12	(+0.000/-0.011)	125	(+0/+1)		206
GU20	12	(+0.000/-0.011)	125	(+0/+1)	0.8	206
GU20	12	(+0.000/-0.011)	127	(+0/+1)		209
GU20	12	(+0.000/-0.011)	150	(+0/+1)		247
GU20	12	(+0.000/-0.011)	150	(+0/+1)	0.8	247
GU20	12	(+0.000/-0.011)	187	(+0/+1)		308
GU20	12	(+0.000/-0.011)	200	(+0/+2)		330
GU20	12	(+0.000/-0.011)	210	(+0/+3)		347
GU20	12	(+0.000/-0.011)	230	(+0/+3)		380
GU20	12	(+0.000/-0.011)	310	(+0/+5)		513
GU20	12	(+0.000/-0.011)	320	(+0/+5)		529
GU20	12	(+0.000/-0.011)	325	(+0/+5)		537
GU20	12	(+0.000/-0.011)	330	(+0/+5)		546
GU20	13	(+0.000/-0.011)	65	(+0/+1)		126
GU20	13	(+0.000/-0.011)	84	(+0/+1)		163
GU20	13	(+0.000/-0.011)	100	(+0/+1)		193

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	13	(+0.000/-0.011)	102	(+0/+1)		197
GU20	13	(+0.000/-0.011)	102	(+0/+1)	0.8	197
GU20	13	(+0.000/-0.011)	150	(+0/+1)		290
GU20	13	(+0.000/-0.011)	310	(+0/+5)		602
GU20	13	(+0.000/-0.011)	330	(+0/+5)		640
GU20	13.47	(+0.000/-0.011)	120	(+0/+1)		249
GU20	14	(+0.000/-0.011)	60	(+0/+1)		135
GU20	14	(+0.000/-0.011)	60	(+0/+1)	0.8	135
GU20	14	(+0.000/-0.011)	65	(+0/+1)		146
GU20	14	(+0.000/-0.011)	65	(+0/+1)	0.8	146
GU20	14	(+0.000/-0.011)	75	(+0/+1)		169
GU20	14	(+0.000/-0.011)	75	(+0/+1)	0.8	169
GU20	14	(+0.000/-0.011)	76	(+0/+1)		171
GU20	14	(+0.000/-0.011)	80	(+0/+1)		180
GU20	14	(+0.000/-0.011)	80	(+0/+1)	0.8	180
GU20	14	(+0.000/-0.011)	84	(+0/+1)		189
GU20	14	(+0.000/-0.011)	85	(+0/+1)		191
GU20	14	(+0.000/-0.011)	85	(+0/+1)	0.8	191
GU20	14	(+0.000/-0.011)	89	(+0/+1)		200
GU20	14	(+0.000/-0.011)	90	(+0/+1)		202
GU20	14	(+0.000/-0.011)	90	(+0/+1)	0.8	202
GU20	14	(+0.000/-0.011)	92	(+0/+1)		206
GU20	14	(+0.000/-0.011)	100	(+0/+1)		224
GU20	14	(+0.000/-0.011)	100	(+0/+1)	0.8	224
GU20	14	(+0.000/-0.011)	107	(+0/+1)		240
GU20	14	(+0.000/-0.011)	107	(+0/+1)	0.8	240
GU20	14	(+0.000/-0.011)	108	(+0/+1)		242
GU20	14	(+0.000/-0.011)	108	(+0/+1)	0.8	242
GU20	14	(+0.000/-0.011)	114	(+0/+1)		256
GU20	14	(+0.000/-0.011)	124.5	(+0/+1)		279
GU20	14	(+0.000/-0.011)	125	(+0/+1)		280
GU20	14	(+0.000/-0.011)	125	(+0/+1)	0.8	280

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	14	(+0.000/-0.011)	127	(+0/+1)		285
GU20	14	(+0.000/-0.011)	150	(+0/+1)		336
GU20	14	(+0.000/-0.011)	150	(+0/+1)	0.8	336
GU20	14	(+0.000/-0.011)	210	(+0/+2)		471
GU20	14	(+0.000/-0.011)	230	(+0/+3)		517
GU20	14	(+0.000/-0.011)	310	(+0/+5)		698
GU20	14	(+0.000/-0.011)	320	(+0/+5)		720
GU20	14	(+0.000/-0.011)	330	(+0/+5)		742
GU20	15	(+0.000/-0.011)	60	(+0/+1)		155
GU20	15	(+0.000/-0.011)	80	(+0/+1)		206
GU20	15	(+0.000/-0.011)	100	(+0/+1)		257
GU20	15	(+0.000/-0.011)	111	(+0/+1)		286
GU20	15	(+0.000/-0.011)	111	(+0/+1)	0.8	286
GU20	15	(+0.000/-0.011)	122	(+0/+1)		314
GU20	15	(+0.000/-0.011)	150	(+0/+1)		386
GU20	15	(+0.000/-0.011)	210	(+0/+2)		541
GU20	15	(+0.000/-0.011)	310	(+0/+5)		801
GU20	15	(+0.000/-0.011)	330	(+0/+5)		852
GU20	16	(+0.000/-0.011)	60	(+0/+1)		176
GU20	16	(+0.000/-0.011)	60	(+0/+1)	0.8	176
GU20	16	(+0.000/-0.011)	65	(+0/+1)		191
GU20	16	(+0.000/-0.011)	65	(+0/+1)	0.8	191
GU20	16	(+0.000/-0.011)	75	(+0/+1)		220
GU20	16	(+0.000/-0.011)	80	(+0/+1)		235
GU20	16	(+0.000/-0.011)	80	(+0/+1)	0.8	235
GU20	16	(+0.000/-0.011)	83	(+0/+1)		243
GU20	16	(+0.000/-0.011)	89	(+0/+1)		261
GU20	16	(+0.000/-0.011)	90	(+0/+1)		264
GU20	16	(+0.000/-0.011)	90	(+0/+1)	0.8	264
GU20	16	(+0.000/-0.011)	92	(+0/+1)		270
GU20	16	(+0.000/-0.011)	92	(+0/+1)	0.8	270
GU20	16	(+0.000/-0.011)	93	(+0/+1)		272

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	16	(+0.000/-0.011)	100	(+0/+1)		293
GU20	16	(+0.000/-0.011)	100	(+0/+1)	0.8	293
GU20	16	(+0.000/-0.011)	110	(+0/+1)		322
GU20	16	(+0.000/-0.011)	110	(+0/+1)	0.8	322
GU20	16	(+0.000/-0.011)	115	(+0/+1)		337
GU20	16	(+0.000/-0.011)	115	(+0/+1)	0.8	337
GU20	16	(+0.000/-0.011)	116	(+0/+1)		340
GU20	16	(+0.000/-0.011)	116	(+0/+1)	0.8	340
GU20	16	(+0.000/-0.011)	120	(+0/+1)		351
GU20	16	(+0.000/-0.011)	125	(+0/+1)		366
GU20	16	(+0.000/-0.011)	125	(+0/+1)	0.8	366
GU20	16	(+0.000/-0.011)	127	(+0/+1)		372
GU20	16	(+0.000/-0.011)	133.5	(+0/+1)		391
GU20	16	(+0.000/-0.011)	134	(+0/+1)		392
GU20	16	(+0.000/-0.011)	134	(+0/+1)	0.8	392
GU20	16	(+0.000/-0.011)	140.5	(+0/+1)		411
GU20	16	(+0.000/-0.011)	150	(+0/+1)		439
GU20	16	(+0.000/-0.011)	150	(+0/+1)	0.8	439
GU20	16	(+0.000/-0.011)	160	(+0/+1)		468
GU20	16	(+0.000/-0.011)	167.5	(+0/+1)		490
GU20	16	(+0.000/-0.011)	170	(+0/+1)		497
GU20	16	(+0.000/-0.011)	170	(+0/+1)	0.8	497
GU20	16	(+0.000/-0.011)	200	(+0/+2)		586
GU20	16	(+0.000/-0.011)	210	(+0/+3)		616
GU20	16	(+0.000/-0.011)	230	(+0/+3)		675
GU20	16	(+0.000/-0.011)	300	(+0/+5)		882
GU20	16	(+0.000/-0.011)	310	(+0/+5)		911
GU20	16	(+0.000/-0.011)	320	(+0/+5)		940
GU20	16	(+0.000/-0.011)	330	(+0/+5)		969
GU20	17	(+0.000/-0.013)	50	(+0/+1)		166
GU20	17	(+0.000/-0.013)	100	(+0/+1)		331
GU20	17	(+0.000/-0.013)	119	(+0/+1)		393

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	17	(+0.000/-0.013)	119	(+0/+1)	0.8	393
GU20	17	(+0.000/-0.013)	125	(+0/+1)		413
GU20	17	(+0.000/-0.013)	210	(+0/+3)		696
GU20	17	(+0.000/-0.013)	310	(+0/+1)		1028
GU20	17	(+0.000/-0.013)	330	(+0/+1)		1094
GU20	18	(+0.000/-0.013)	60	(+0/+1)		223
GU20	18	(+0.000/-0.013)	60	(+0/+1)	0.8	223
GU20	18	(+0.000/-0.013)	65	(+0/+1)		242
GU20	18	(+0.000/-0.013)	65	(+0/+1)	0.8	242
GU20	18	(+0.000/-0.013)	85	(+0/+1)		314
GU20	18	(+0.000/-0.013)	92	(+0/+1)		340
GU20	18	(+0.000/-0.013)	92	(+0/+1)	0.8	340
GU20	18	(+0.000/-0.013)	93	(+0/+1)		344
GU20	18	(+0.000/-0.013)	100	(+0/+1)		370
GU20	18	(+0.000/-0.013)	100	(+0/+1)	0.8	370
GU20	18	(+0.000/-0.013)	102	(+0/+1)		377
GU20	18	(+0.000/-0.013)	120	(+0/+1)		444
GU20	18	(+0.000/-0.013)	120	(+0/+1)	0.8	444
GU20	18	(+0.000/-0.013)	122	(+0/+1)		452
GU20	18	(+0.000/-0.013)	123	(+0/+1)		455
GU20	18	(+0.000/-0.013)	123	(+0/+1)	0.8	455
GU20	18	(+0.000/-0.013)	124	(+0/+1)		459
GU20	18	(+0.000/-0.013)	124	(+0/+1)	0.8	459
GU20	18	(+0.000/-0.013)	125	(+0/+1)		463
GU20	18	(+0.000/-0.013)	125	(+0/+1)	0.8	463
GU20	18	(+0.000/-0.013)	127	(+0/+1)		470
GU20	18	(+0.000/-0.013)	143.5	(+0/+1)		531
GU20	18	(+0.000/-0.013)	144	(+0/+1)		533
GU20	18	(+0.000/-0.013)	144	(+0/+1)	0.8	533
GU20	18	(+0.000/-0.013)	150	(+0/+1)		555
GU20	18	(+0.000/-0.013)	150	(+0/+1)	0.8	555
GU20	18	(+0.000/-0.013)	170	(+0/+1)		629

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	18	(+0.000/-0.013)	170	(+0/+1)	0.8	629
GU20	18	(+0.000/-0.013)	210	(+0/+3)		780
GU20	18	(+0.000/-0.013)	230	(+0/+3)		854
GU20	18	(+0.000/-0.013)	310	(+0/+5)		1152
GU20	18	(+0.000/-0.013)	320	(+0/+5)		1189
GU20	18	(+0.000/-0.013)	330	(+0/+5)		1226
GU20	19	(+0.000/-0.013)	100	(+0/+1)		413
GU20	19	(+0.000/-0.013)	127	(+0/+1)		524
GU20	19	(+0.000/-0.013)	127	(+0/+1)	0.8	524
GU20	19	(+0.000/-0.013)	133	(+0/+1)		548
GU20	19	(+0.000/-0.013)	210	(+0/+3)		869
GU20	19	(+0.000/-0.013)	310	(+0/+5)		1284
GU20	19	(+0.000/-0.013)	312	(+0/+5)		1292
GU20	19	(+0.000/-0.013)	330	(+0/+5)		1366
GU20	20	(+0.000/-0.013)	60	(+0/+1)		275
GU20	20	(+0.000/-0.013)	60	(+0/+1)	1.0	275
GU20	20	(+0.000/-0.013)	65	(+0/+1)		298
GU20	20	(+0.000/-0.013)	65	(+0/+1)	1.0	298
GU20	20	(+0.000/-0.013)	80	(+0/+1)		365
GU20	20	(+0.000/-0.013)	90	(+0/+1)		411
GU20	20	(+0.000/-0.013)	90	(+0/+1)	1.0	411
GU20	20	(+0.000/-0.013)	92	(+0/+1)		420
GU20	20	(+0.000/-0.013)	92	(+0/+1)	1.0	420
GU20	20	(+0.000/-0.013)	93	(+0/+1)		424
GU20	20	(+0.000/-0.013)	100	(+0/+1)		456
GU20	20	(+0.000/-0.013)	100	(+0/+1)	1.0	456
GU20	20	(+0.000/-0.013)	102	(+0/+1)		465
GU20	20	(+0.000/-0.013)	105	(+0/+1)		479
GU20	20	(+0.000/-0.013)	120	(+0/+1)		547
GU20	20	(+0.000/-0.013)	120	(+0/+1)	1.0	547
GU20	20	(+0.000/-0.013)	125	(+0/+1)		570
GU20	20	(+0.000/-0.013)	125	(+0/+1)	1.0	571

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	20	(+0.000/-0.013)	127	(+0/+1)		579
GU20	20	(+0.000/-0.013)	131	(+0/+1)		598
GU20	20	(+0.000/-0.013)	131	(+0/+1)	1.0	598
GU20	20	(+0.000/-0.013)	132	(+0/+1)		603
GU20	20	(+0.000/-0.013)	132	(+0/+1)	1.0	603
GU20	20	(+0.000/-0.013)	133	(+0/+1)		608
GU20	20	(+0.000/-0.013)	135	(+0/+1)		617
GU20	20	(+0.000/-0.013)	135	(+0/+1)	1.0	615
GU20	20	(+0.000/-0.013)	150	(+0/+1)		685
GU20	20	(+0.000/-0.013)	150	(+0/+1)	1.0	685
GU20	20	(+0.000/-0.013)	153.5	(+0/+1)		701
GU20	20	(+0.000/-0.013)	154	(+0/+1)		703
GU20	20	(+0.000/-0.013)	154	(+0/+1)	1.0	703
GU20	20	(+0.000/-0.013)	160	(+0/+1)		730
GU20	20	(+0.000/-0.013)	200	(+0/+2)		915
GU20	20	(+0.000/-0.013)	210	(+0/+3)		963
GU20	20	(+0.000/-0.013)	230	(+0/+3)		1054
GU20	20	(+0.000/-0.013)	310	(+0/+5)		1422
GU20	20	(+0.000/-0.013)	320	(+0/+5)		1468
GU20	20	(+0.000/-0.013)	330	(+0/+5)		1513
GU20	21	(+0.000/-0.013)	100	(+0/+1)		504
GU20	21	(+0.000/-0.013)	210	(+0/+3)		1061
GU20	21	(+0.000/-0.013)	310	(+0/+5)		1568
GU20	21	(+0.000/-0.013)	330	(+0/+5)		1668
GU20	22	(+0.000/-0.013)	60	(+0/+1)		333
GU20	22	(+0.000/-0.013)	64	(+0/+1)		355
GU20	22	(+0.000/-0.013)	65	(+0/+1)		361
GU20	22	(+0.000/-0.013)	100	(+0/+1)		553
GU20	22	(+0.000/-0.013)	100	(+0/+1)	1.0	553
GU20	22	(+0.000/-0.013)	102	(+0/+1)		564
GU20	22	(+0.000/-0.013)	120	(+0/+1)		663
GU20	22	(+0.000/-0.013)	125	(+0/+1)		691

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA. (mm)	TOL. (mm)	L (mm)	TOL. (mm)	Chamfer x45°(mm)	UNIT WEIGHT (g)
GU20	22	(+0.000/-0.013)	127	(+0/+1)		702
GU20	22	(+0.000/-0.013)	138	(+0/+1)		762
GU20	22	(+0.000/-0.013)	150	(+0/+1)		829
GU20	22	(+0.000/-0.013)	210	(+0/+3)		1164
GU20	22	(+0.000/-0.013)	230	(+0/+3)		1275
GU20	22	(+0.000/-0.013)	310	(+0/+5)		1720
GU20	22	(+0.000/-0.013)	325	(+0/+5)		1803
GU20	22	(+0.000/-0.013)	330	(+0/+5)		1831
GU20	23	(+0.000/-0.013)	100	(+0/+1)		605
GU20	23	(+0.000/-0.013)	210	(+0/+3)		1273
GU20	23	(+0.000/-0.013)	310	(+0/+5)		1880
GU20	24	(+0.000/-0.013)	100	(+0/+1)		658
GU20	24	(+0.000/-0.013)	210	(+0/+3)		1385
GU20	24	(+0.000/-0.013)	230	(+0/+3)		1516
GU20	24	(+0.000/-0.013)	310	(+0/+5)		2047
GU20	24	(+0.000/-0.013)	325	(+0/+5)		2145
GU20	24	(+0.000/-0.013)	330	(+0/+5)		2178
GU20	25	(+0.000/-0.013)	60	(+0/+1)		430
GU20	25	(+0.000/-0.013)	65	(+0/+1)		466
GU20	25	(+0.000/-0.013)	100	(+0/+1)		714
GU20	25	(+0.000/-0.013)	100	(+0/+5)	1.0	714
GU20	25	(+0.000/-0.013)	102	(+0/+1)		729
GU20	25	(+0.000/-0.013)	121	(+0/+1)		864
GU20	25	(+0.000/-0.013)	125	(+0/+1)		892
GU20	25	(+0.000/-0.013)	127	(+0/+1)		906
GU20	25	(+0.000/-0.013)	140	(+0/+1)		999
GU20	25	(+0.000/-0.013)	150	(+0/+1)		1070
GU20	25	(+0.000/-0.013)	200	(+0/+2)		1429
GU20	25	(+0.000/-0.013)	210	(+0/+3)		1503
GU20	25	(+0.000/-0.013)	310	(+0/+5)		2221
GU20	25	(+0.000/-0.013)	330	(+0/+5)		2363
GU20	30	(+0.000/-0.013)	162	(+0/+2)		1668

STANDARD CARBIDE ROD SIZES:  
Solid, 1- and 2-coolant holes



GRADE	DIA.		L (mm)		Chamfer x45°(mm)	UNIT WEIGHT (g)
	(mm)	TOL. (mm)		TOL. (mm)		
GU20	30	(+0.010/-0.013)	200	(+0/+2)		2056
GU20	30	(+0.010/-0.013)	250	(+0/+3)		2573
GU20	30	(+0.010/-0.013)	310	(+0/+5)		3197
GU20	36	(+0.010/-0.013)	100	(+0/+1)		1480
GU20	40	(+0.010/-0.013)	70	(+0/+1)		1282
GU20	40	(+0.010/-0.013)	250	(+0/+3)		4573
GU20	50	(+0.010/-0.013)	250	(+0/+3)		7143