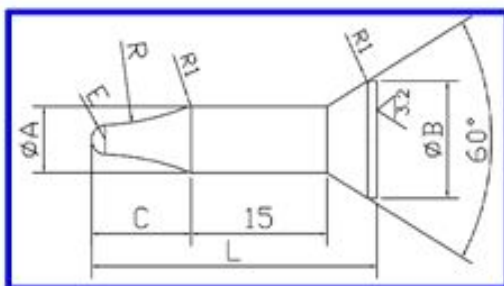


OBARA KCF Material

Guide Pin for Nut Welding

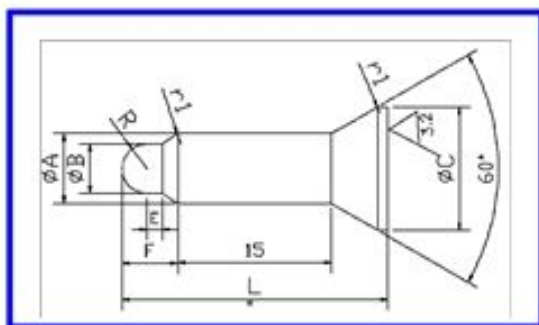
OT-PN Series



OT-PN Series

TYPE	Nut Size	Dimension (mm)						Tolerance
		Dia. A	Dia. B	Dim. C	Rad. E	Dim. L	Rad. R	
OT-PN-M4	M4	4.8	12.0	6.5	1.0	29.0	30.00	+0.00/-0.05
OT-PN-M5	M5	5.8	12.0	8.5	1.0	30.0	19.85	+0.00/-0.05
OT-PN-M6	M6	6.8	12.0	11.0	1.5	31.5	30.00	+0.00/-0.05
OT-PN-M8	M8	8.8	12.0	12.5	1.5	31.5	22.31	+0.00/-0.05
OT-PN-M10	M10	10.8	16.0	14.0	2.0	34.5	30.00	+0.00/-0.05
OT-PN-M12	M12	12.8	16.0	17.0	2.0	35.8	30.00	+0.00/-0.05

OT-RPN Series

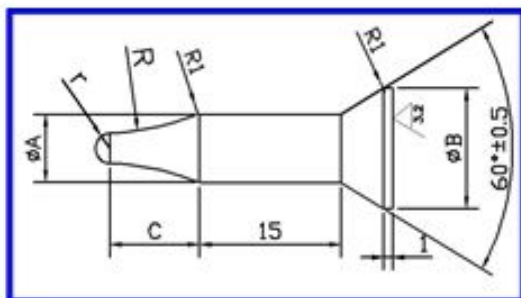


OT-RPN SERIES

TYPE	Nut Size	Dimension (mm)							Tolerance
		Dia. A	Dia. B	Dim. C	Dim. E	Dim. F	Dim. L	Rad. R	
OT-RPN-M4	M4	4.8	3.0	12.0	2.0	5.50	28.00	1.50	+0.00/-0.05
OT-RPN-M5	M5	5.8	4.0	12.0	1.5	5.00	26.50	2.00	+0.00/-0.05
OT-RPN-M6	M6	6.8	4.8	12.0	1.5	5.40	25.90	2.40	+0.00/-0.05
OT-RPN-M8	M8	8.8	6.5	12.0	2.0	6.95	25.75	3.25	+0.00/-0.05
OT-RPN-M10	M10	10.8	8.6	16.0	2.0	8.30	28.80	4.30	+0.00/-0.05
OT-RPN-M12	M12	12.8	10.6	16.0	4.0	12.30	31.10	5.30	+0.00/-0.05

OBARA KCF Material

OT-TP Series

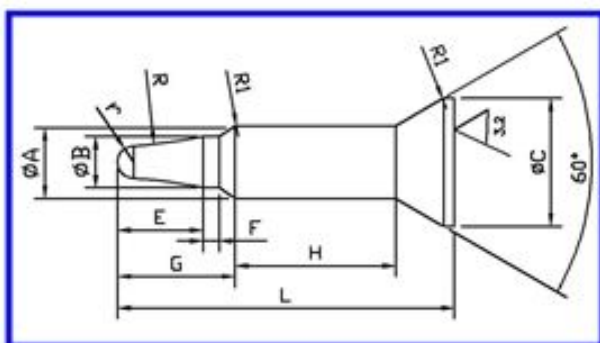


OT-TP SERIES

TYPE	Dimension (mm)					Tolerance
	Dia. A	Dia. B	Dim. C	Rad. R	Rad. r	
OT-TP-M4	5	12	5.5	11.0	1.0	-0.2/-0.3
OT-TP-M5	6	12	7.5	15.0	1.0	-0.2/-0.3
OT-TP-M6	7	12	9.5	23.6	1.5	-0.2/-0.3
OT-TP-M7	8	12	10.5	23.6	1.5	-0.2/-0.3
OT-TP-M8	9	12	11.0	21.7	1.5	-0.2/-0.3
OT-TP-M9	10	12	11.0	21.7	1.5	-0.2/-0.3
OT-TP-M10	11	16	12.0	22.3	2.0	-0.2/-0.3
OT-TP-M11	12	16	13.5	22.3	2.0	-0.2/-0.3
OT-TP-M12	13	16	15.0	27.0	2.0	-0.2/-0.3
OT-TP-M13	14	16	15.0	27.0	2.0	-0.2/-0.3
OT-TP-M14	15	21	16.0	38.0	2.5	-0.2/-0.3
OT-TP-M15	16	21	16.0	38.0	2.5	-0.2/-0.3
OT-TP-M16	17	21	17.0	30.0	2.5	-0.2/-0.3
OT-TP-M16.5	16.5	21	17.0	30.0	2.5	-0.2/-0.3

OBARA KCF Material

OT-DPN SERIES

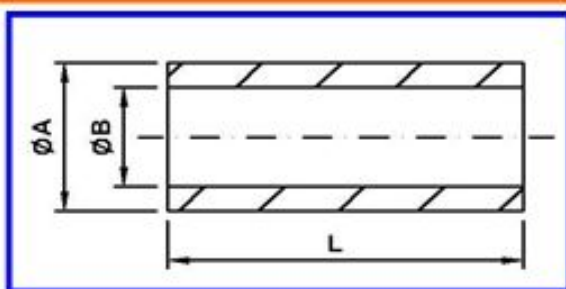


OT-DPN SERIES

TYPE	Dimension (mm)										Tolerances
	Dia. A	Dia. B	Dia. C	Dim. E	Dim. F	Dim. G	Dim. H	Dim. L	Rad. R	Rad. r	
OT-DPN-M4	4.8	3.0	12.0	5.0	2.0	9.0	15.0	31.5	11.25	1.0	+0.00/-0.05
OT-DPN-M5	5.8	4.0	12.0	6.0	1.5	9.0	15.0	30.5	10.31	1.5	+0.00/-0.05
OT-DPN-M6	6.8	4.8	12.0	8.0	1.5	11.0	15.0	31.5	51.83	1.5	+0.00/-0.05
OT-DPN-M8	8.8	6.5	12.0	9.0	2.0	12.7	15.0	31.5	16.95	1.5	+0.00/-0.05
OT-DPN-M10	10.8	8.6	16.0	10.0	2.0	14.0	15.0	34.5	16.12	2.0	+0.00/-0.05
OT-DPN-M12	12.8	10.6	16.0	10.0	4.0	17.0	15.0	35.8	19.79	3.0	+0.00/-0.05

Guide Sleeves for Bolt Welding

OT-PB Series



Type	Dimension (mm)			Bolt
	Dia. A	Dia. B	L	
OT-PB-4.2	6.2	4.2	30	M4
OT-PB-5.2	7.2	5.2	30	M5
OT-PB-6.2	8.2	6.2	30	M6
OT-PB-8.2	10.2	8.2	30	M8
OT-PB-10.2	12.2	10.2	30	M10
OT-PB-12.2	14.2	12.2	30	M12