

HYDRAULIC EXPANSION MANDREL PRODUCT CATALOGUE

HIGH ALIGNMENTS, MORE PRECISE.

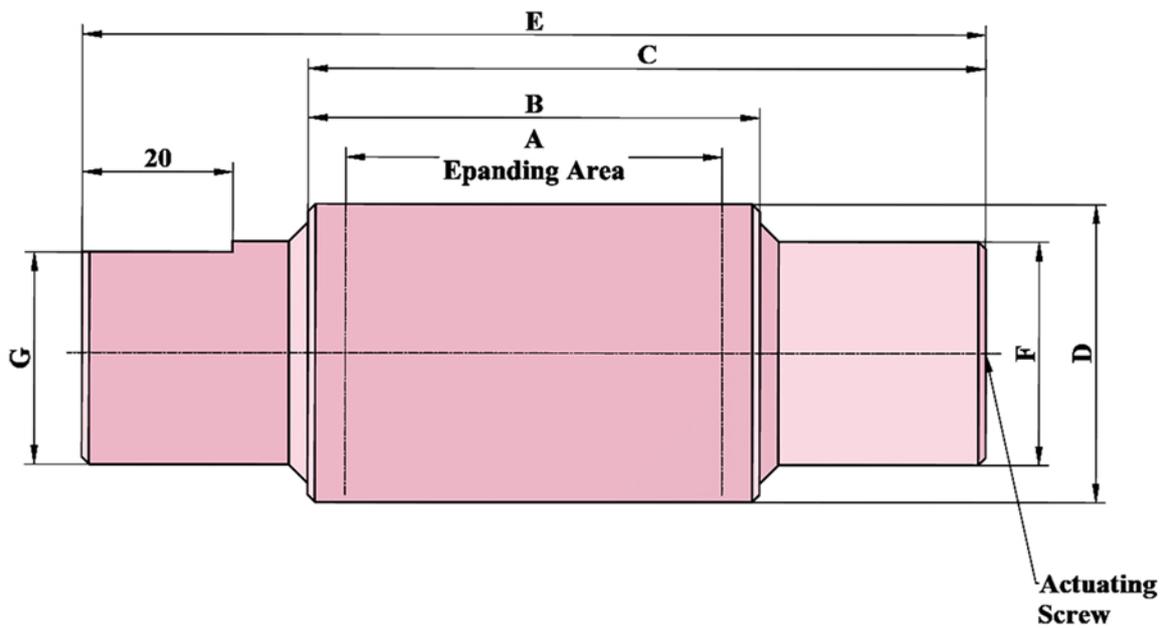
Super-precision hydraulic expansion mandrels are a very precise and suitable alternative for grippers and fixtures available on the market and/or designed for specific purposes. One of the problems in material removal, in highly precise parts, is the need for high alignment, which can easily be achieved using this kind of mandrels.

Achievement of precise geometric parameters in the mass production of thin-walled bushes in the automotive industry is among the reasons why they use this kind of mandrels.

In addition to being designed based on customer needs, from among the main advantages of this equipment, we can refer to its low price and being leak free.

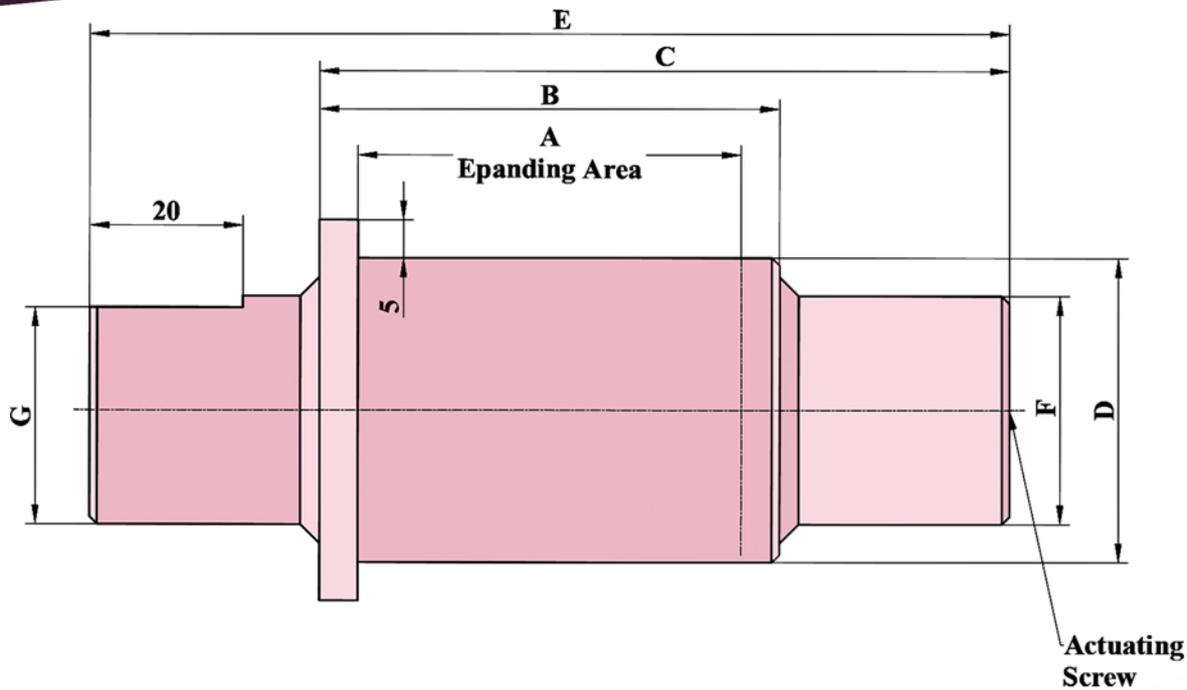
The long lifespan of mandrels and their being maintenance free have caused them to have a wide range of applications in the industries of manufacturing brass parts, turning machines, multi-station transfers, and cylinder grinding machines.

Straight Type Without Collar Axial Actuation



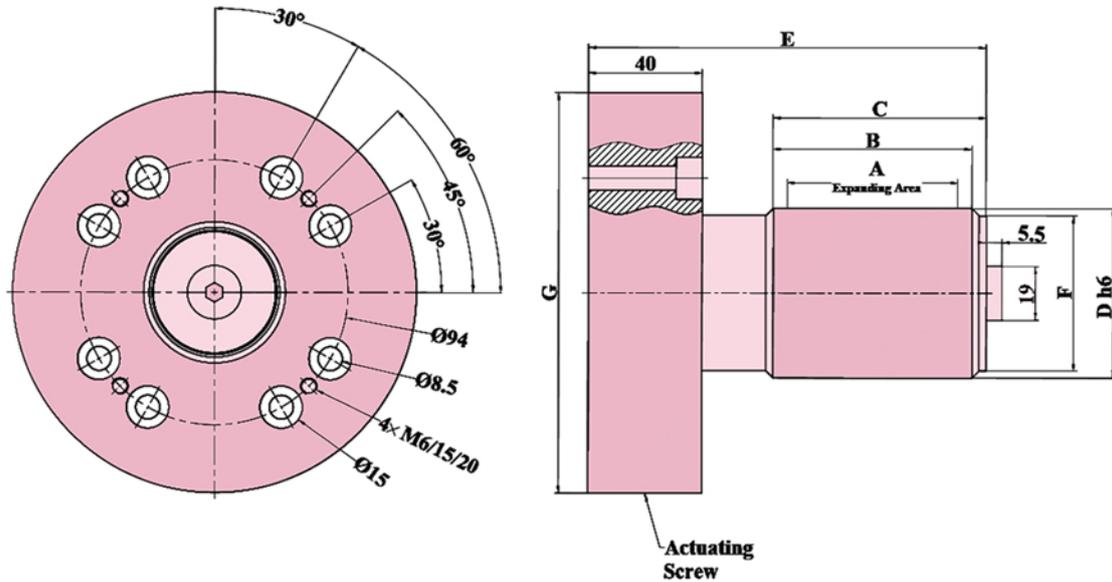
Order No.	D[mm]	A[mm]	B[mm]	Max. Expansion [μm]	C[mm]	E[mm]	F[mm]	G[mm]
RM37-01	35	60	70	60	130	178	30	28.5
RM37-02	36	60	70	60	130	178	31	29.5
RM37-03	37	60	70	60	130	178	32	30.5
RM37-04	38	60	70	60	130	178	33	31.5
RM37-05	39	60	70	60	130	178	34	32.5
RM37-06	40	60	70	60	130	178	35	33.5
RM37-07	41	60	70	60	130	178	36	34.5
RM37-08	42	60	70	60	130	178	37	35.5
RM37-09	43	60	70	75	130	178	38	36.5
RM37-10	44	60	70	75	130	178	39	37.5
RM37-11	45	60	70	75	130	178	40	38.5
RM37-12	46	60	70	75	130	178	41	39.5
RM37-13	47	60	70	75	130	178	42	40.5
RM37-14	48	60	70	75	130	178	43	41.5
RM37-15	49	60	70	75	130	178	44	42.5
RM37-16	50	60	70	75	130	178	45	43.5
RM37-17	51	60	70	90	130	178	46	44.5
RM37-18	52	60	70	90	130	178	47	45.5
RM37-19	53	60	70	90	130	178	48	46.5
RM37-20	54	60	70	90	130	178	49	47.5
RM37-21	55	60	70	90	130	178	50	48.5
RM37-22	56	60	70	90	130	178	51	49.5
RM37-23	57	60	70	90	130	178	52	50.5
RM37-24	58	60	70	90	130	178	53	51.5
RM37-25	59	60	70	90	130	178	54	52.5
RM37-26	60	60	70	90	130	178	55	53.5

Straight Type With Collar Axial Actuation



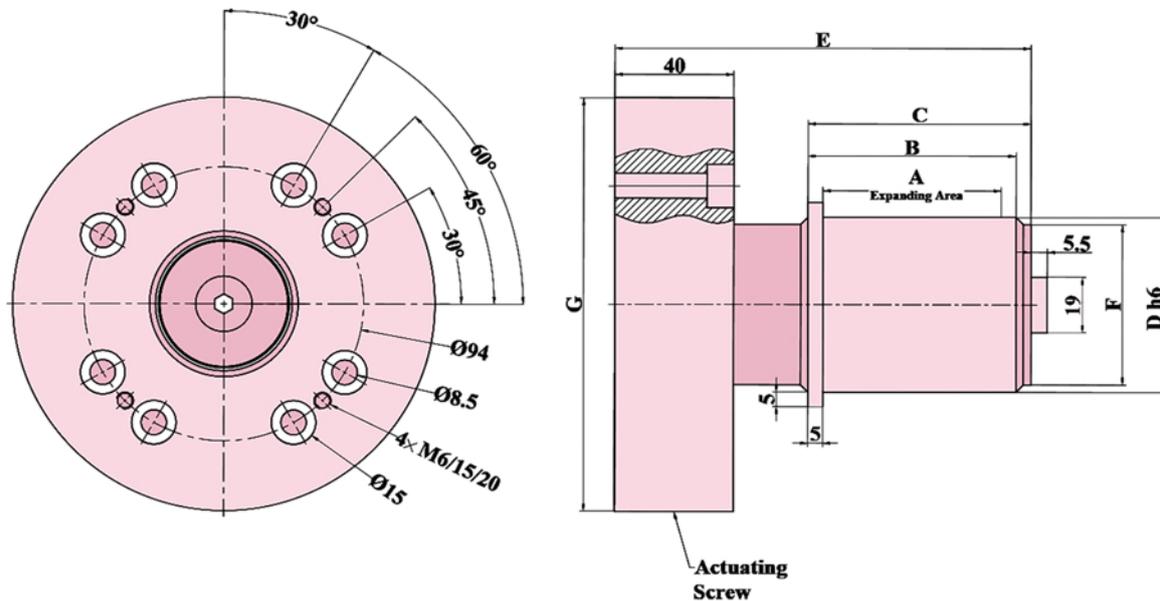
Order No.	D[mm]	A[mm]	B[mm]	Max. Expansion [μm]	C[mm]	E[mm]	F[mm]	G[mm]
RM37-51	35	60	70	60	130	178	30	28.5
RM37-52	36	60	70	60	130	178	31	29.5
RM37-53	37	60	70	60	130	178	32	30.5
RM37-54	38	60	70	60	130	178	33	31.5
RM37-55	39	60	70	60	130	178	34	32.5
RM37-56	40	60	70	60	130	178	35	33.5
RM37-57	41	60	70	60	130	178	36	34.5
RM37-58	42	60	70	60	130	178	37	35.5
RM37-59	43	60	70	75	130	178	38	36.5
RM37-60	44	60	70	75	130	178	39	37.5
RM37-61	45	60	70	75	130	178	40	38.5
RM37-62	46	60	70	75	130	178	41	39.5
RM37-63	47	60	70	75	130	178	42	40.5
RM37-64	48	60	70	75	130	178	43	41.5
RM37-65	49	60	70	75	130	178	44	42.5
RM37-66	50	60	70	75	130	178	45	43.5
RM37-67	51	60	70	90	130	178	46	44.5
RM37-68	52	60	70	90	130	178	47	45.5
RM37-69	53	60	70	90	130	178	48	46.5
RM37-70	54	60	70	90	130	178	49	47.5
RM37-71	55	60	70	90	130	178	50	48.5
RM37-72	56	60	70	90	130	178	51	49.5
RM37-73	57	60	70	90	130	178	52	50.5
RM37-74	58	60	70	90	130	178	53	51.5
RM37-75	59	60	70	90	130	178	54	52.5
RM37-76	60	60	70	90	130	178	55	53.5

Flange Type Without Collar Radial Actuation



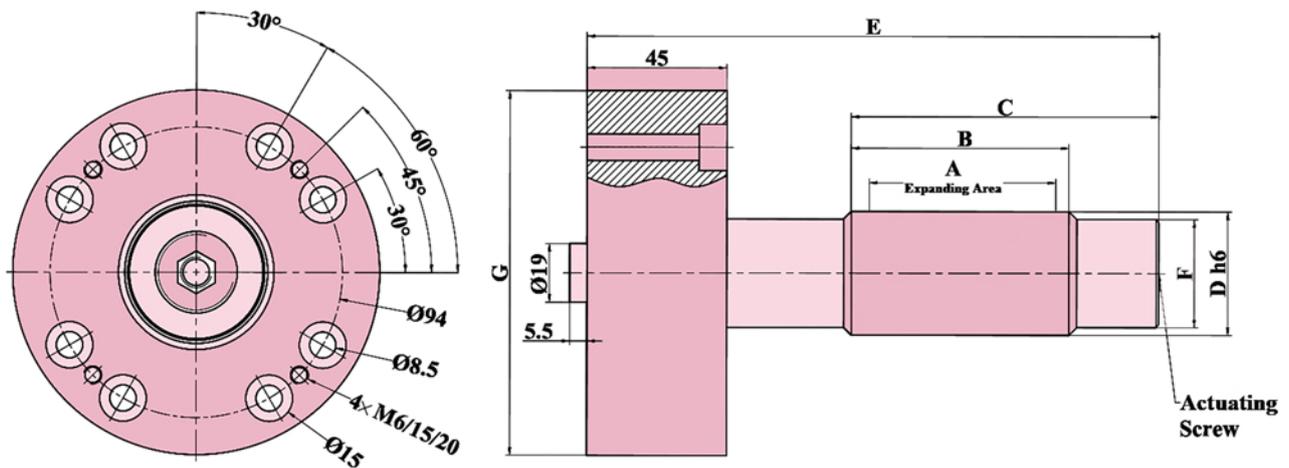
Order No.	D[mm]	A[mm]	B[mm]	Max. Expansion [µm]	C[mm]	E[mm]	F[mm]	G[mm]
RM38-01	25	60	70	60	75	140	20	142
RM38-02	26	60	70	60	75	140	21	142
RM38-03	27	60	70	60	75	140	22	142
RM38-04	28	60	70	60	75	140	23	142
RM38-05	29	60	70	60	75	140	24	142
RM38-06	30	60	70	60	75	140	25	142
RM38-07	31	60	70	60	75	140	26	142
RM38-08	32	60	70	60	75	140	27	142
RM38-09	33	60	70	60	75	140	28	142
RM38-10	34	60	70	60	75	140	29	142
RM38-11	35	60	70	70	75	140	30	142
RM38-12	36	60	70	70	75	140	31	142
RM38-13	37	60	70	70	75	140	32	142
RM38-14	38	60	70	70	75	140	33	142
RM38-15	39	60	70	70	75	140	34	142
RM38-16	40	60	70	70	75	140	35	142
RM38-17	41	60	70	70	75	140	36	142
RM38-18	42	60	70	70	75	140	37	142
RM38-19	43	60	70	70	75	140	38	142
RM38-20	44	60	70	70	75	140	39	142
RM38-21	45	60	70	80	75	140	40	142
RM38-22	46	60	70	80	75	140	41	142
RM38-23	47	60	70	80	75	140	42	142
RM38-24	48	60	70	80	75	140	43	142
RM38-25	49	60	70	80	75	140	44	142
RM38-26	50	60	70	80	75	140	45	142
RM38-27	51	60	70	80	75	140	46	142
RM38-28	52	60	70	80	75	140	47	142
RM38-29	53	60	70	80	75	140	48	142
RM38-30	54	60	70	80	75	140	49	142
RM38-31	55	60	70	90	75	140	50	142
RM38-32	56	60	70	90	75	140	51	142
RM38-33	57	60	70	90	75	140	52	142
RM38-34	58	60	70	90	75	140	53	142
RM38-35	59	60	70	90	75	140	54	142
RM38-36	60	60	70	90	75	140	55	142

Flange Type With Collar Radial Actuation



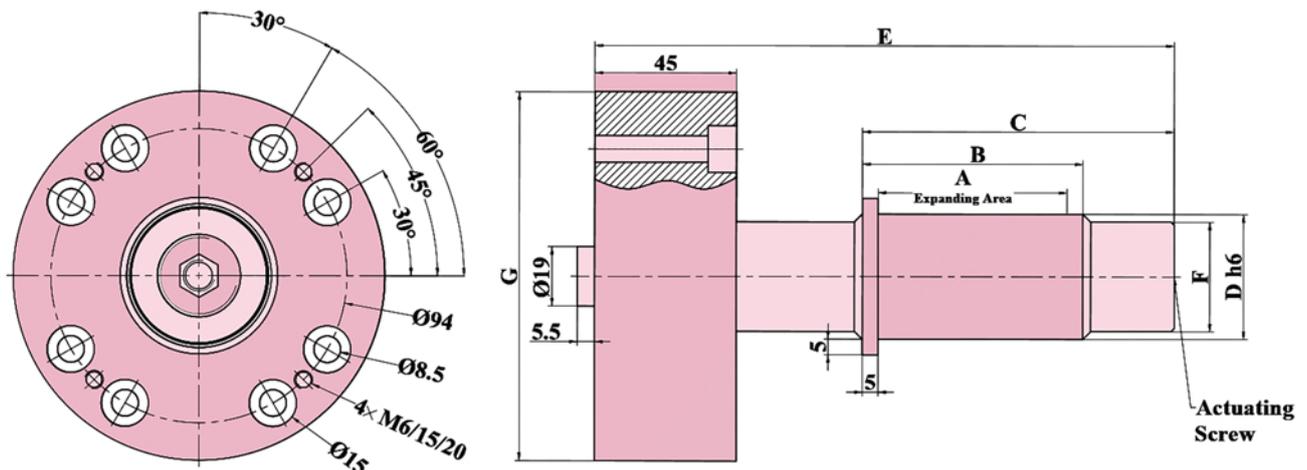
Order No.	D[mm]	A[mm]	B[mm]	Max. Expansion[μ m]	C[mm]	E[mm]	F[mm]	G[mm]
RM38-51	25	60	70	60	75	140	20	142
RM38-52	26	60	70	60	75	140	21	142
RM38-53	27	60	70	60	75	140	22	142
RM38-54	28	60	70	60	75	140	23	142
RM38-55	29	60	70	60	75	140	24	142
RM38-56	30	60	70	60	75	140	25	142
RM38-57	31	60	70	60	75	140	26	142
RM38-58	32	60	70	60	75	140	27	142
RM38-59	33	60	70	60	75	140	28	142
RM38-60	34	60	70	60	75	140	29	142
RM38-61	35	60	70	70	75	140	30	142
RM38-62	36	60	70	70	75	140	31	142
RM38-63	37	60	70	70	75	140	32	142
RM38-64	38	60	70	70	75	140	33	142
RM38-65	39	60	70	70	75	140	34	142
RM38-66	40	60	70	70	75	140	35	142
RM38-67	41	60	70	70	75	140	36	142
RM38-68	42	60	70	70	75	140	37	142
RM38-69	43	60	70	70	75	140	38	142
RM38-70	44	60	70	70	75	140	39	142
RM38-71	45	60	70	80	75	140	40	142
RM38-72	46	60	70	80	75	140	41	142
RM38-73	47	60	70	80	75	140	42	142
RM38-74	48	60	70	80	75	140	43	142
RM38-75	49	60	70	80	75	140	44	142
RM38-76	50	60	70	80	75	140	45	142
RM38-77	51	60	70	80	75	140	46	142
RM38-78	52	60	70	80	75	140	47	142
RM38-79	53	60	70	80	75	140	48	142
RM38-80	54	60	70	80	75	140	49	142
RM38-81	55	60	70	90	75	140	50	142
RM38-82	56	60	70	90	75	140	51	142
RM38-83	57	60	70	90	75	140	52	142
RM38-84	58	60	70	90	75	140	53	142
RM38-85	59	60	70	90	75	140	54	142
RM38-86	60	60	70	90	75	140	55	142

Flange Type Without Collar Axial Actuation



Order No.	D[mm]	A[mm]	B[mm]	Max. Expansion[μ m]	C[mm]	E[mm]	F[mm]	G[mm]
RM39-01	40	60	70	60	99	184	35	118
RM39-02	41	60	70	60	99	184	36	118
RM39-03	42	60	70	60	99	184	37	118
RM39-04	43	60	70	60	99	184	38	118
RM39-05	44	60	70	60	99	184	39	118
RM39-06	45	60	70	60	99	184	40	118
RM39-07	46	60	70	60	99	184	41	118
RM39-08	47	60	70	60	99	184	42	118
RM39-09	48	60	70	60	99	184	43	118
RM39-10	49	60	70	60	99	184	44	118
RM39-11	50	60	70	70	99	184	45	118
RM39-12	51	60	70	70	99	184	46	118
RM39-13	52	60	70	70	99	184	47	118
RM39-14	53	60	70	70	99	184	48	118
RM39-15	54	60	70	70	99	184	49	118
RM39-16	55	60	70	70	99	184	50	118
RM39-17	56	60	70	70	99	184	51	118
RM39-18	57	60	70	70	99	184	52	118
RM39-19	58	60	70	70	99	184	53	118
RM39-20	59	60	70	70	99	184	54	118
RM39-21	60	60	70	80	99	184	55	118
RM39-22	61	60	70	80	99	184	56	118
RM39-23	62	60	70	80	99	184	57	118
RM39-24	63	60	70	80	99	184	58	118
RM39-25	64	60	70	80	99	184	59	118
RM39-26	65	60	70	80	99	184	60	118
RM39-27	66	60	70	80	99	184	61	118
RM39-28	67	60	70	80	99	184	62	118
RM39-29	68	60	70	80	99	184	63	118
RM39-30	69	60	70	80	99	184	64	118
RM39-31	70	60	70	90	99	184	65	118
RM39-32	71	60	70	90	99	184	66	118
RM39-33	72	60	70	90	99	184	67	118
RM39-34	73	60	70	90	99	184	68	118
RM39-35	74	60	70	90	99	184	69	118
RM39-36	75	60	70	90	99	184	70	118
RM39-37	76	60	70	90	99	184	71	118
RM39-38	77	60	70	90	99	184	72	118
RM39-39	78	60	70	90	99	184	73	118
RM39-40	79	60	70	90	99	184	74	118
RM39-41	80	60	70	90	99	184	75	118

Flange Type With Collar Axial Actuation



Flange Type With Collar - Axial Actuation									
Order No.	D[mm]	A[mm]	B[mm]	Max. Expansion[µm]	C[mm]	E[mm]	F[mm]	G[mm]	
RM39-51	40	60	70	60	99	184	35	118	
RM39-52	41	60	70	60	99	184	36	118	
RM39-53	42	60	70	60	99	184	37	118	
RM39-54	43	60	70	60	99	184	38	118	
RM39-55	44	60	70	60	99	184	39	118	
RM39-56	45	60	70	60	99	184	40	118	
RM39-57	46	60	70	60	99	184	41	118	
RM39-58	47	60	70	60	99	184	42	118	
RM39-59	48	60	70	60	99	184	43	118	
RM39-60	49	60	70	60	99	184	44	118	
RM39-61	50	60	70	70	99	184	45	118	
RM39-62	51	60	70	70	99	184	46	118	
RM39-63	52	60	70	70	99	184	47	118	
RM39-64	53	60	70	70	99	184	48	118	
RM39-65	54	60	70	70	99	184	49	118	
RM39-66	55	60	70	70	99	184	50	118	
RM39-67	56	60	70	70	99	184	51	118	
RM39-68	57	60	70	70	99	184	52	118	
RM39-69	58	60	70	70	99	184	53	118	
RM39-70	59	60	70	70	99	184	54	118	
RM39-71	60	60	70	80	99	184	55	118	
RM39-72	61	60	70	80	99	184	56	118	
RM39-73	62	60	70	80	99	184	57	118	
RM39-74	63	60	70	80	99	184	58	118	



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