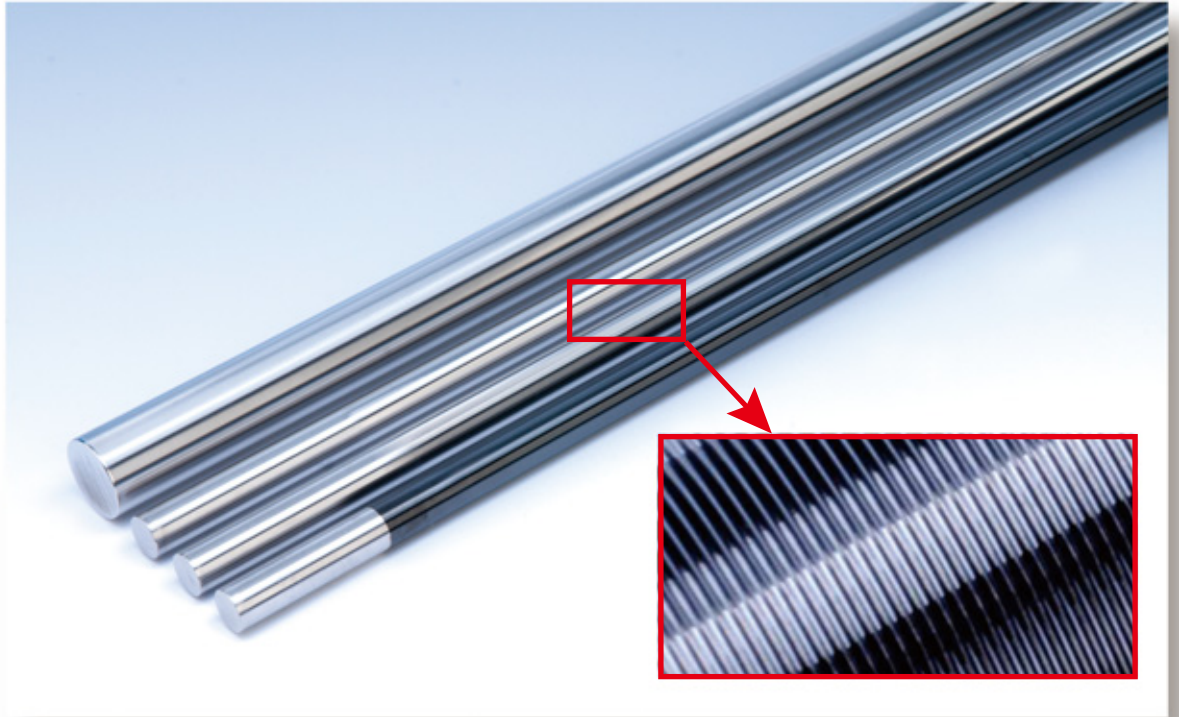


UNION TOOL

UC Rod

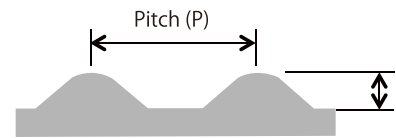
Union Coating Rod



Developed from Sophisticated
Rolling Technology



UNION TOOL CO.

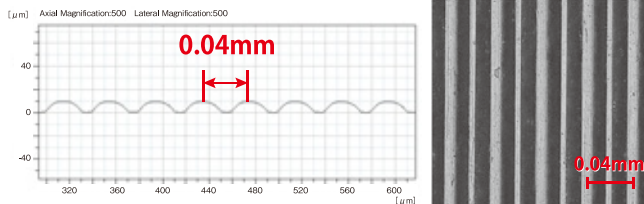


Items	Specification	Items	Specification
Diameter (D)	6 ~ 30mm	length (L)	200 ~ 3000mm
Pitch (P)	0.04 ~ 1mm	Groove Helix Angle	Under 1° (Standard) ~ 90°
Groove Depth (H)	0.005 ~ 0.26mm	Material	Stainless Steel, etc.
Surface Treatment			

Special specification

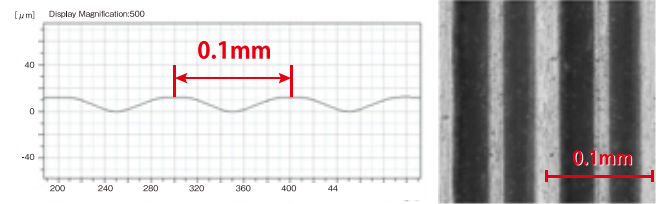
Microscopic UC Rod -Fine

#2 P0.04-10 (UC Rod-Fine)



Groove shape

#2 P0.1-12(Standard)

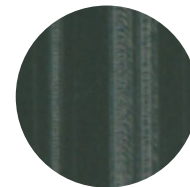


Groove shape

We can reduce helix and improve the leveling by forming microfine groove pitch keeping coating amount.

*Please contact us as we need to make special dies to manufacture special rods.

UC Rod-SS (Super smooth)



Surface roughness data

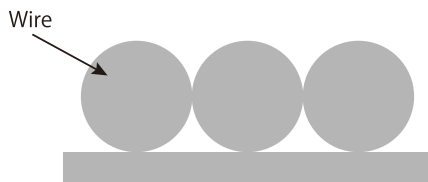
UC Rod - M

Coating Rod for hand-coating or desktop testing equipment
Suitable for checking coating amount before prototype test



■ Easy to wash

Compared to the wire bar, it's easy to wash because of its wide bottom of thread.

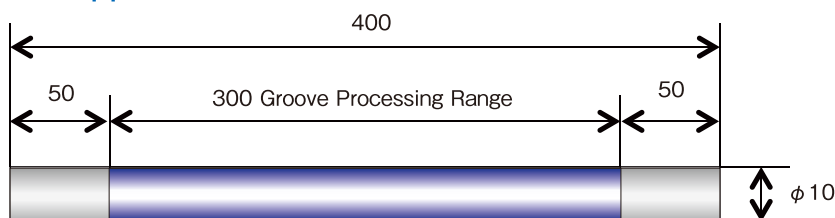


Schematic drawing of wire bar's groove sectional shape.



Schematic drawing of UC Rod's groove sectional shape.

● Outside appearance and size



Rods material: SUS304

Please see the Wire Bar Comparison Table to check the availability of the UC Rod-M.

● Coating rods carrying cases

Cases especially made for coating rods.
Easy to carry, can test anywhere you want (Laboratory, In front of the coating equipment, etc)

※Carrying case is optional item.



Wire Bar Comparison Table

Number	Wire Bar						UC Rod									UC Rod-M Stock
	Specification			【Reference】 Wet film thickness in the rate of transfer (μm)			Specification					【Reference】 Wet film thickness in the rate of transfer (μm)				
	Wire diameter (mm)	Pocket area (mm^2)	Area per 1mm (mm^2/mm)	50%	60%	70%	Specification	Pitch (mm)	Groove depth (mm)	Pocket area (mm^2)	Area per 1mm (mm^2/mm)	60%	70%	80%		
# 0	PLANE	—	—	—	—	—	PLANE	—	—	—	—	—	—	—	○	
# 0.5	0.0127	0.00002	0.00136	0.7	0.8	1.0	P0.08-3	0.08	0.003	0.00010	0.00119	0.7	0.8	1.0	○	
# 1	0.0254	0.00007	0.00273	1.4	1.6	1.9	P0.08-5	0.08	0.005	0.00023	0.00286	1.7	2.0	2.3	○	
# 1.5	0.0381	0.00016	0.00409	2.0	2.5	2.9	P0.1-9	0.1	0.009	0.00036	0.00358	2.1	2.5	2.9	○	
# 2	0.0508	0.00028	0.00545	2.7	3.3	3.8	P0.1-12	0.1	0.012	0.00055	0.00548	3.3	3.8	4.4	○	
# 3	0.0762	0.00062	0.00818	4.1	4.9	5.7	P0.1-15	0.1	0.015	0.00067	0.00668	4.0	4.7	5.3	○	
# 3.5	0.0889	0.00085	0.00954	4.8	5.7	6.7	P0.1-18	0.1	0.018	0.00081	0.00811	4.9	5.7	6.5	○	
# 4	0.1016	0.00111	0.01090	5.5	6.5	7.6	P0.1-19	0.1	0.019	0.00086	0.00859	5.2	6.0	6.9	○	
# 4.5	0.1143	0.00140	0.01226	6.1	7.4	8.6	P0.1-20	0.1	0.02	0.00105	0.01049	6.3	7.3	8.4	○	
# 5	0.1270	0.00173	0.01363	6.8	8.2	9.5	P0.2-21	0.2	0.021	0.00224	0.01121	6.7	7.8	9.0	○	
# 6	0.1524	0.00249	0.01635	8.2	9.8	11.4	P0.2-28	0.2	0.028	0.00286	0.01431	8.6	10.0	11.4	○	
# 7	0.1778	0.00339	0.01908	9.5	11.4	13.4	P0.2-42	0.2	0.042	0.00334	0.01669	10.0	11.7	13.4	○	
# 8	0.2032	0.00443	0.02180	10.9	13.1	15.3	P0.25-35	0.25	0.035	0.00477	0.01908	11.4	13.4	15.3	○	
# 9	0.2286	0.00561	0.02453	12.3	14.7	17.2	P0.25-45	0.25	0.045	0.00537	0.02146	12.9	15.0	17.2	○	
# 10	0.2540	0.00692	0.02725	13.6	16.4	19.1	P0.25-48	0.25	0.048	0.00596	0.02385	14.3	16.7	19.1	○	
# 11	0.2794	0.00838	0.02998	15.0	18.0	21.0	P0.25-54	0.25	0.054	0.00656	0.02623	15.7	18.4	21.0	○	
# 12	0.3048	0.00997	0.03271	16.4	19.6	22.9	P0.3-70	0.3	0.07	0.00859	0.02862	17.2	20.0	22.9	○	
# 13	0.3302	0.01170	0.03543	17.7	21.3	24.8	P0.3-75	0.3	0.075	0.00930	0.03100	18.6	21.7	24.8	—	
# 14	0.3556	0.01357	0.03816	19.1	22.9	26.7	P0.33-66	0.33	0.066	0.01102	0.03339	20.0	23.4	26.7	○	
# 15	0.3810	0.01558	0.04088	20.4	24.5	28.6	P0.35-72	0.35	0.072	0.01252	0.03577	21.5	25.0	28.6	○	
# 16	0.4064	0.01772	0.04361	21.8	26.2	30.5	P0.375-75	0.375	0.075	0.01431	0.03816	22.9	26.7	30.5	○	
# 17	0.4318	0.02001	0.04633	23.2	27.8	32.4	P0.38-81	0.38	0.081	0.01541	0.04054	24.3	28.4	32.4	—	
# 18	0.4572	0.02243	0.04906	24.5	29.4	34.3	P0.4-90	0.4	0.09	0.01717	0.04293	25.8	30.0	34.3	○	
# 19	0.4826	0.02499	0.05178	25.9	31.1	36.2	P0.45-90	0.45	0.09	0.02039	0.04531	27.2	31.7	36.2	—	
# 20	0.5080	0.02769	0.05451	27.3	32.7	38.2	P0.45-95	0.45	0.095	0.02146	0.04770	28.6	33.4	38.2	○	
# 21	0.5334	0.03053	0.05723	28.6	34.3	40.1	P0.48-105	0.48	0.105	0.02404	0.05008	30.0	35.1	40.1	—	
# 22	0.5588	0.03351	0.05996	30.0	36.0	42.0	P0.5-110	0.5	0.11	0.02623	0.05246	31.5	36.7	42.0	○	
# 23	0.5842	0.03662	0.06269	31.3	37.6	43.9	P0.5-112	0.5	0.112	0.02742	0.05485	32.9	38.4	43.9	—	
# 24	0.6096	0.03987	0.06541	32.7	39.2	45.8	P0.5-115	0.5	0.115	0.02862	0.05723	34.3	40.1	45.8	○	
# 25	0.6350	0.04327	0.06814	34.1	40.9	47.7	P0.55-120	0.55	0.12	0.03279	0.05962	35.8	41.7	47.7	—	
# 26	0.6604	0.04680	0.07086	35.4	42.5	49.6	P0.6-130	0.6	0.13	0.03720	0.06200	37.2	43.4	49.6	○	
# 27	0.6858	0.05047	0.07359	36.8	44.2	51.5	P0.6-140	0.6	0.14	0.03863	0.06439	38.6	45.1	51.5	—	
# 28	0.7112	0.05427	0.07631	38.2	45.8	53.4	P0.63-133	0.63	0.133	0.04207	0.06677	40.1	46.7	53.4	○	
# 29	0.7366	0.05822	0.07904	39.5	47.4	55.3	P0.65-140	0.65	0.14	0.04495	0.06916	41.5	48.4	55.3	—	
# 30	0.7620	0.06230	0.08176	40.9	49.1	57.2	P0.68-143	0.68	0.143	0.04865	0.07154	42.9	50.1	57.2	○	
# 31	0.7874	0.06653	0.08449	42.2	50.7	59.1	P0.7-145	0.7	0.145	0.05175	0.07393	44.4	51.7	59.1	—	
# 32	0.8128	0.07089	0.08721	43.6	52.3	61.0	P0.7-150	0.7	0.15	0.05342	0.07631	45.8	53.4	61.0	○	
# 34	0.8640	0.08003	0.09267	46.3	55.6	64.9	P0.75-160	0.75	0.16	0.06081	0.08108	48.6	56.8	64.9	○	
# 36	0.9144	0.08972	0.09812	49.1	58.9	68.7	P0.8-160	0.8	0.16	0.06868	0.08585	51.5	60.1	68.7	—	
# 55	1.3970	0.20941	0.14990	74.9	89.9	104.9	P1.0-260	1	0.26	0.13116	0.13116	78.7	91.8	104.9	○	

※ Some specifications are not shown in the table. Please contact a local distributor or sales office.

※ Film thickness varies depending on coating conditions.

※ When performing a surface treatment, coating quantity will be very slightly smaller.



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*The contents of catalogue may change without prior notice.

