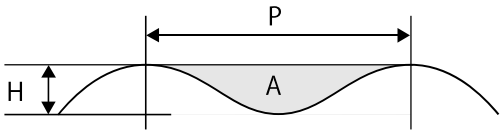
D-Bar

D-Bar (Standard) Groove Specifications List # 1_ # 50

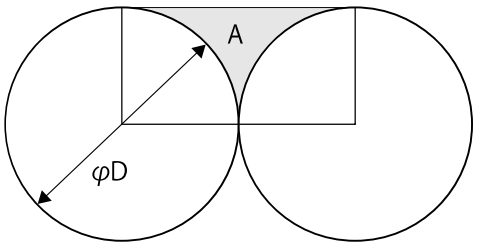
Fig. 1 D-Bar groove shape (S type)



P (pitch) = mm, H (depth) = μm
A = Pocket area

The pocket area (A) of the D-Bar is calculated using a profile meter.

Fig. 2 Wire bar groove shape



The wire bar pocket area (A) is calculated by subtracting the semicircle from the square.

◎D-Bar selection of groove specification

Depending on the application conditions, Generally, the transfer amount of the coating liquid has a relationship such as (D-Bar> wire bar).
Therefore, in the case of the equivalent 1㎜ equivalent area, it is considered that D-Bar is applied more.
For reference only, In selecting a D-Bar by comparing with a wire bar, Please refer to the following excerpt from the groove specification table, We recommend that you use the smallest specification, like A.

※Our D-Bar groove specification list is created based on 1 mm equivalent area (㎟)

Wire bar specification (for comparison)				D-Bar specification			
				S-type		K-type	
Model number	Wire diameter (mm)	The pocket area per 1mm (㎟)		The pocket area per 1mm (㎟)	Spec (P=mm H=μm)	The pocket area per 1mm (㎟)	Spec (P=mm H=μm)
#1	0.0254	0.0027		0.0025	P0.08H5S	–	–
#2	0.0508	0.0055		0.0057	P0.1H11S	–	–
#3	0.0762	0.0082		0.0080	P0.1H17S	0.0083	P0.1H15K
#4	0.1016	0.0109	Ⓐ	0.0110	P0.15H22S	0.0116	P0.125H17K
#5	0.1270	0.0136		0.0130	P0.2H24S	0.0132	P0.125H21K
#6	0.1524	0.0164		0.0162	P0.25H29S	0.0161	P0.2H24K
#48	1.2192	0.1308		–	–	0.1314	P0.7H207K
#49	1.2446	0.1335		–	–	–	–
#50	1.2700	0.1363		–	–	–	–

◎We have the specifications above #51. Please contact us on request.

※The pocket area per 1mm (mm^2) of our D-Bar is the measurement data of a test piece manufactured with a material diameter of φ10.
※No surface treatment is applied to the test piece used for measurement data.
※It is possible that the pocket area per 1mm (mm^2) will change depending on the selection of material diameter, the type of surface treatment, and its thickness.
※Our D-Bar of the pocket area per 1mm (mm^2) does not guarantee the coating amount and may differ from the estimated film thickness depending on the coating conditions and the physical properties of the coating liquid, so please use it as a reference value only.

D-Bar (Standard) Groove Specifications List # 1_ # 50

January , 2015

Wire bar specification (for comparison)			D-Bar specification			
			S-type		K-type	
Model number	Wire diameter (mm)	The pocket area per 1mm (㎟)	The pocket area per 1mm (㎟)	Spec (P=mm H=μm)	The pocket area per 1mm (㎟)	Spec (P=mm H=μm)
#1	0.0254	0.0027	0.0025	P0.08H5S	–	–
#2	0.0508	0.0055	0.0057	P0.1H11S	–	–
#3	0.0762	0.0082	0.0080	P0.1H17S	0.0083	P0.1H15K
#4	0.1016	0.0109	0.0110	P0.15H22S	0.0116	P0.125H17K
#5	0.1270	0.0136	0.0130	P0.2H24S	0.0132	P0.125H21K
#6	0.1524	0.0164	0.0162	P0.25H29S	0.0161	P0.2H24K
#7	0.1778	0.0191	0.0188	P0.25H37S	0.0190	P0.2H32K
#8	0.2032	0.0218	0.0226	P0.25H49S	0.0209	P0.2H38K
#9	0.2286	0.0245	0.0246	P0.25H50S	0.0240	P0.25H47K
#10	0.2540	0.0273	0.0268	P0.25H55S	0.0262	P0.3H42K
#11	0.2794	0.0300	0.0300	P0.3H60S	0.0299	P0.3H47K
#12	0.3048	0.0327	0.0325	P0.35H65S	0.0324	P0.3H55K
#13	0.3302	0.0354	0.0360	P0.4H76S	0.0348	P0.4H47K
#14	0.3556	0.0382	0.0398	P0.4H79S	0.0370	P0.4H53K
#15	0.3810	0.0409	0.0413	P0.4H83S	0.0413	P0.4H58K
#16	0.4064	0.0436	0.0438	P0.4H88S	0.0431	P0.4H63K
#17	0.4318	0.0463	0.0464	P0.4H94S	0.0470	P0.4H66K
#18	0.4572	0.0491	0.0489	P0.45H98S	0.0500	P0.4H74K
#19	0.4826	0.0518	0.0524	P0.45H106S	0.0523	P0.4H78K
#20	0.5080	0.0545	0.0560	P0.5H113S	0.0543	P0.4H85K
#21	0.5334	0.0572	0.0575	P0.5H117S	0.0579	P0.4H91K
#22	0.5588	0.0600	0.0600	P0.6H123S	0.0605	P0.4H100K
#23	0.5842	0.0627	0.0627	P0.6H124S	0.0638	P0.4H105K
#24	0.6096	0.0654	0.0650	P0.6H126S	0.0650	P0.4H116K
#25	0.6350	0.0681	0.0699	P0.7H134S	0.0675	P0.4H120K
#26	0.6604	0.0709	0.0700	P0.7H144S	0.0703	P0.45H115K
#27	0.6858	0.0736	0.0743	P0.7H150S	0.0734	P0.45H119K
#28	0.7112	0.0763	0.0777	P0.75H156S	0.0762	P0.45H125K
#29	0.7366	0.0790	0.0800	P0.75H158S	0.0789	P0.45H130K
#30	0.7620	0.0818	0.0825	P0.8H162S	0.0828	P0.45H133K
#31	0.7874	0.0845	0.0853	P0.8H166S	–	–
#32	0.8128	0.0872	–	–	–	–
#33	0.8382	0.0899	0.0904	P0.8H183S	–	–
#34	0.8636	0.0927	–	–	0.0911	P0.45H136K
#35	0.8890	0.0954	–	–	–	–
#36	0.9144	0.0981	–	–	–	–
#37	0.9398	0.1008	0.1003	P0.9H201S	0.1000	P0.6H159K
#38	0.9652	0.1036	–	–	0.1033	P0.6H163K
#39	0.9906	0.1063	0.1065	P1.0H211S	0.1075	P0.6H168K
#40	1.0160	0.1090	–	–	–	–
#41	1.0414	0.1117	–	–	–	–
#42	1.0668	0.1145	–	–	–	–
#43	1.0922	0.1172	0.1161	P1.1H236S	–	–
#44	1.1176	0.1199	–	–	0.1204	P0.6H197K
#45	1.1430	0.1226	–	–	–	–
#46	1.1684	0.1254	0.1250	P1.2H257S	0.1243	P0.7H193K
#47	1.1938	0.1281	0.1288	P1.25H260S	–	–
#48	1.2192	0.1308	–	–	0.1314	P0.7H207K
#49	1.2446	0.1335	–	–	–	–
#50	1.2700	0.1363	–	–	–	–

※A difference in film thickness may occur depending on the coating conditions and the physical properties of the coating liquid.

※Some specifications are not listed. Please contact us if you do not have the required specifications.

OSG SYSTEM PRODUCTS