

Pin Crank Systems



Pin Crank – Bases And Covers

This rim support pin crank system has been designed to give a high stability, long life and minimum refractory to ware weight ratio. The unit consists of one base, one cover and three uprights, this system is fully interchangeable with bases and covers ranging from 114mm to 311mm, a multi-fitting base and cover is available for ware sizes of 330mm dia. Although our uprights will fit three different cross section of pin, they are all consistent and will fit into any base or cover required.

The upright can be chosen to enable maximum kiln fill to be obtained dependent on placing height available. Pins are inserted into the uprights to support the ware during glost and decorating firing. Pins are available in three cross sections 5mm, 6mm and 10mm and two body formulations, Delta and High Strength, typical loadings (gms):-

	Delta	High Strength
5mm Cross Section	800	1250
6mm Cross Section	1130	1800

10mm Cross section pins are also available for additional weight but with a limited number of uprights available.

A choice of round edge and straight edge pins are also available.

Straight Edge:  Round Edge: 

As a Useful guide, to calculate the size of crank required to fire glost and decorative, see below:

Ware up to 178mm add 25mm for crank size

Ware over 178mm add 32mm for crank size.

There is a recommended length of each cross section of pin:-

Cross Section	Length
5mm Cross Section	38mm
6mm Cross Section	50mm
10 mm Cross Section	50mm

For any requirements outside these parameter please contacts for more information.

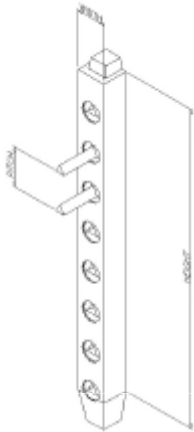


Base	Cover	Size		Max. Ware Dia. (mm)
		Inches	mm	
IPB1140	IPC1140	41/2	114	89
IPB1330	IPC1330	51/4	133	108
IPB1400	IPC1400	51/2	140	115
IPB1460	IPC1460	53/4	146	121
IPB1520	IPC1520	6	152	127
IPB1590	IPC1590	61/4	159	134
IPB1650	IPC1650	61/2	165	140
IPB1710	IPC1710	63/4	171	146
IPB1780	IPC1780	7	178	153
IPB1850	IPC1850	71/4	185	155
IPB1900	IPC1900	71/2	190	160
IPB1960	IPC1960	73/4	196	166
IPB2030	IPC2030	8	203	173
IPB2090	IPC2090	81/4	209	179
IPB2160	IPC2160	81/2	216	186
IPB2220	IPC2220	83/4	222	192
IPB2280	IPC2280	9	228	198
IPB2350	IPC2350	91/4	235	205
IPB2410	IPC2410	91/2	241	211
IPB2470	IPC2470	93/4	247	217
IPB2540	IPC2540	10	254	224
IPB2600	IPC2600	101/4	260	230
IPB2660	IPC2660	101/2	266	236
IPB2720	IPC2720	103/4	272	242
IPB2790	IPC2790	11	279	249
IPB2850	IPC2850	111/4	285	255
IPB2920	IPC2920	111/2	292	262
IPB3050	IPC3050	12	305	275
IPB3140	IPC3140	121/4	311	284

Base	Cover	Description
IPB000DC	IPC000DC	Multi-fitting Pin Crank (For large oval and round dishes)
IPBM2934	IPCM2934	Multi-fitting Pin Crank (For large 295mm to 340mm plates)

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Pin Cranks – Uprights



Available with a wide variety of hole spacings and pin angles to suit different ware profiles. IPS Ceramics uprights are designed to ensure:

- ✓ Maximum kiln fill and full fuel efficiency.
- ✓ Minimum pin to ware contact area.
- ✓ Perfect accommodation of either 10mm (3/8"), 6mm (1/4") or 5mm (3/16") ceramic pins for different weights of ware.
- ✓ Perfect fit to a normal kiln car prop and batt spacings through a wide choice of lengths.
- ✓ Tapered ends for a precision fit into all Bases and Covers resulting in a highly stable structure ideal for even the most rigorous firing.

Reference	No. of Holes	Height (mm)	Pitch (mm)	Width (mm)	Hole Angle
PIN UPRIGHTS FOR 5mm (3/16") PINS					
IPU15200	14	392	24.2	25	10°
IPU13700	19	364	17.2	22	17°
IPU17900	14	275	17	18.7	25°
IPU14400	14	274	16.6	18.7	17°
IPU14500	12	274	19.4	18.7	17°
IPU07900	14	273	17	18.7	17°
IPU13400	12	272	19.4	19	17°
IPU12700	9	272	23.7	18.7	10°
IPU00100	17	272	13.8	18.7	10°
IPU00200	14	272	17	18.7	10°
IPU02400	12	272	19.7	18.7	10°
IPU01000	14	271	16.7	18.7	17°
IPU01300	10	270	23.7	18	10°
IPU01600	10	268	23.4	18.7	17
IPU13300	12	267	18.9	18.7	20
IPU02700	15	262	15	18.7	10°
IPU01400	9	223	20.1	18.7	10°
IPU06800	10	222	17.9	18.7	17
IPU02900	8	208	21.8	18.7	17°
IPU02100	10	205	17	18.7	10
IPU11700	9	185	17.4	18.7	10°
IPU03300	8	170	17.4	18.7	10°
PIN UPRIGHTS FOR 6mm (1/4") PINS					
X070365	14	313	20	26	10°
IPU13200	9	279	26.3	25	17°
X070356	11	273	22	26.4	10°
IPU05300	13	273	17.9	25.4	17°
IPU02600	11	272	22	25.4	10°
IPU00600	13	272	18.3	25.4	10°
IPU35700	9	271	25.4	25.4	10°
IPU15800	9	270	26	25	17°
IPU01900	8	270	26.5	25.4	10°
IPU14100	10	270	23	25.4	17°
IPU15900	8	270	25.5	25	10°
IPU02000	9	270	26.5	25.4	10°
IPU73300	7	220	26.5	25.4	10°
IPU37100	9	270	25.6	25.4	17°
PIN UPRIGHTS FOR 10mm (3/8") PINS					
IPU11400*	7	270	34.9	25.4	10°

Add 15mm to height of upright to give assembled crank height.