

## JINTAI Plastic Random Packing



JINTAI Group has developed a full range of plastic random column packing:

- JINTAI Plastic Pall Ring: **JT-PPR**
- JINTAI Plastic Rosette Ring: **JT-PRR**
- JINTAI Plastic Cascade Ring: **JT-PCR**
- JINTAI Plastic Saddle: **JT-PS**
- JINTAI Plastic Heilex Ring: **JT-PHR**

### *General Introduction*

Plastic random packing (or plastic random column packing) has been used successfully as an inexpensive and efficient means to increase tower capacity and efficiency.

There are numerous process advantages that can be realized by using plastic random column packing in many applications. The predominant reasons for using column packing is to reduce pressure drop throughout the column, to increase capacity compared to trays at the same efficiency, and to reduce the liquid holdup in the column.

Plastic random column packing are not as bulky as ceramic equivalents and therefore offer higher capacity and lower pressure drop.

Materials we can offer: PE, PP, PVC, UPVC, CPVC, PVDF.

Typical Application: Absorption, scrubbing, and stripping services.

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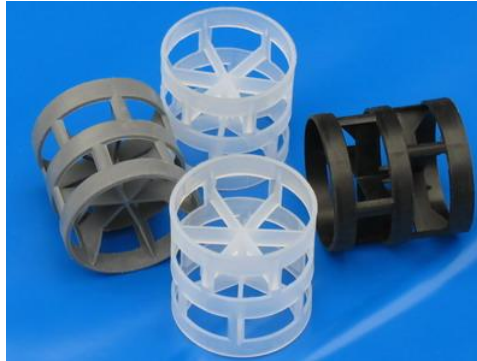
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## JINTAI Plastic Pall Ring (JT-PPR)

### Sample Picture



JT-PPR

### JT-PPR Benefits

- Good Capacity and Low Pressure Drop
- Higher Liquid Hold-up and Residence Time
- Versatile Standard Packing
- High Mechanical Strength

### JT-PPR Application

Absorption, scrubbing, and stripping services. Versatile alternative to metal Pall rings

### Technical Parameter

Type	Specification D×H×δ mm	Specific surface area α m <sup>2</sup> /m <sup>3</sup>	Void ε m <sup>3</sup> /m <sup>3</sup>	Num n m <sup>-3</sup>	Heaping Weight γ <sub>p</sub> kg/m <sup>3</sup>	Dry packing factor α/ε <sup>3</sup> m <sup>-1</sup>
Dg16	16×16×1	188	0.91	171000	141	275
Dg25	25×25×1.2	175	0.90	53500	91	239
Dg38	38×38×1.4	115	0.89	15800	71	220
Dg50	50×50×1.5	93	0.90	6500	56	127
Dg76	76×76×2.6	73.2	0.92	1927	60	94
Dg80	80×80×2.6	72	0.92	1660	61	90
Dg90	90×90×2.6	70	0.92	1350	56	82

Technical Parameter of JT-PPR

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## JINTAI Plastic Rosette Ring (JT-PRR)

### Sample Picture



**JT-PRR**

### JT-PRR Benefits

PRR packing is an economical and versatile industry standard with well-known performance characteristics.

### JT-PRR Application

Absorption, scrubbing, and stripping services.

### Technical Parameter

Specification mm	High mm	Thick number	Num	Num n/m <sup>3</sup>	Specific surface area m <sup>2</sup> m <sup>3</sup>	Void m <sup>3</sup> /m <sup>3</sup>	Weight kg/m <sup>3</sup>
25	9	1.5×2	5	170000	269	0.82	128
47	19	3×3	9	32500	185	0.88	111
51	19	3×3	9	25000	180	0.89	103
59	19	3×3	12	17500	150	0.92	72
73	27.5	3×4	12	8000	127	0.89	80
95	37	3×6	12	3900	94	0.90	88
145	48	3×6	20	1100	65	0.95	47

**Technical Parameter of JT-PRR**

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## JINTAI Plastic Cascade Ring (JT-PCR)

### Sample Picture



JT-PCR

### JT-PCR Benefits

- High Capacity and Low Pressure Drop
- Fouling Resistant
- High Mechanical Strength

### JT-PCR Application

Absorption and stripping services, many environmental applications.

### Technical Parameter

Type	Sizes (mm)	number n/m <sup>3</sup>	Bulk density kg/m <sup>3</sup>	Specific surface area m <sup>2</sup> /m <sup>3</sup>	Free Vol. %	Dry packing factorm-1
Dia16	16*8.9*1.1	299136	135.6	370	85	602.6
Dia25	25*12.5*1.4	81500	97.8	228	90	312.8
Dia38	38*19*1.2	27200	57.5	132.5	91	175.8
Dia50	50*25*1.5	10740	54.8	114.2	92.7	143.1
Dia76	76*37*3	3420	68.4	90	92.9	112.3

Technical Parameter of JT-PCR

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## JINTAI Plastic Saddle (JT-PS)

### Sample Picture



JT-PS

### JT-PS Benefits

- Good Capacity and Low Pressure Drop.
- Higher Liquid Hold-up and Residence Time.
- Versatile Standard Packing.

### JT-PS Application

Absorption, scrubbing, stripping services, Pulp and paper service, such as bleach plant absorbers, Versatile alternative to ceramic saddles.

### Technical Parameter

Type	Sizes (mm)	Specific surface area m <sup>2</sup> /m <sup>3</sup>	Free Vol. %	no/m <sup>3</sup>	Package density kg/m <sup>3</sup>	F factor m-1
Dia25	25×12.5×1.2	288	84.7	97680	102	473
Dia38	38×19×1.2	265	95	25200	63	405
Dia50	50×25×1.5	250	96	9400	75.2	332
Dia76	76×38×2.6	200	97	3700	59.2	289

Technical Parameter of JT-PS

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## JINTAI Plastic Heilex Ring (JT-PHR)

### Sample Picture



**JT-PHR**

### JT-PHR Benefits

High performance random packing provides lower possible pressure drop and high efficiency.

### JT-PHR Application

Absorption and stripping services.

### Technical Parameter

Type	Sizes mm	Surface m <sup>2</sup> /m <sup>3</sup>	Free Vol. %	Number m <sup>3</sup>	Weight kg/ m <sup>3</sup>	Dry packing factorm-1
<b>Dia50</b>	50*56	100	94	8000	62	70
<b>Dia76</b>	76*76	75.3	96	3420	56	87
<b>Dia100</b>	100*100	75	95	1850	51	46

**Technical Parameter of JT-PHR**

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