



# JINTAI Metal Random Packing

**JINTAI Group** has developed the following most commonly used metal random packings:

- JINTAI Metal Pall Ring: **JT-MPR**
- JINTAI Metal Saddle Ring: **JT-MSR**
- JINTAI Metal Raschig Ring : **JT-MRR**
- JINTAI Metal Cascade Ring : **JT-MCR**
- JINTAI Metal Nutter Ring : **JT-MNR**

Metal random packings are available in various materials of construction such as:

**Carbon Steel**                      **Stainless Steel**  
**Titanium and Zirconium**      **Copper**  
**Aluminum**

## General applications:

- Various separation, absorption and desorption equipment
- Normal atmospheric pressure reduced and vacuum distillation plant
- De-carbureting and desulfuration systems
- Ethyl benzene separation
- Iso-octane/toluene systems

## JINTAI Group

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## JINTAI Metal Pall Ring (JT-MPR)

JT-MPR is equivalent to well known Pall<sup>®</sup> Ring:



**JT-MPR**

### JT-MPR Advantage

- Lower pressure drop
- Good liquid / gas distribution and higher mass transfer efficiency
- Versatility, Easily wettable, High resistance to fouling, High Temperature
- High Mechanical Strength, suitable for deeper beds
- High temperature resistance

### Technical Parameter

Size	Dimension (mm)	Quantity n/m <sup>3</sup>	Specific Surface m <sup>2</sup> /m <sup>3</sup>	Bulk Density kg/m <sup>3</sup>	Void %
10	Φ10 xH10 x 0.3	768000	482	571	92.7
16	φ16 xH16 x 0.3 (0.4)	214000	338	408(543)	93.1
25	φ25 xH25 x 0.5 (0.6)	52000	218	403(483)	94.8
38	φ38 xH38 x 0.6 (0.8)	15200	141	326 (435)	96.08
50	φ50 xH50 x 0.8 (1.0)	6500	107	322 (403)	95.9
76	Φ76 xH76 x 1.0 (1.2)	1830	74	262(314)	97
89	Φ89 xH89 x 1.2 (1.5)	1200	65	293(353)	98

**Specification for JT-MPR**

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## JINTAI Metal Saddle Ring (JT-MSR)

JT-MSR is equivalent to well known KOCH IMTP:



JT-MSR

### JT-MSR Advantages:

- 30% Lower pressure drop than Pall® Ring
- Large capacity and higher efficiency than other packing.
- Geometric design minimizes liquid hold-up.

### Technical Parameter

Dimension D	Quantity n/m <sup>3</sup>	Specific Surface m <sup>2</sup> /m <sup>3</sup>	Void %	Packing Factor
#15	347500	291.3	95.6	51
#25	135000	225.8	96.6	41
#40	50000	150.8	97.7	28
#50	15000	100	98	18
#70	4625	60	98.5	12

Specification for JT-MSR

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## JINTAI Metal Raschig Ring (JT-MRR)

JT-MRR is equivalent to well known Raschig Ring:



**JT-MRR**

### JT-MRR applications:

- Petrochemical distillation and extraction applications
- Absorption in gas processing and combustion plants
- Desorption in water treatment

### Technical Parameter

Size	Dimension mm	Quantity n/m <sup>3</sup>	Specific Surface m <sup>2</sup> /m <sup>3</sup>	Bulk Density kg/m <sup>3</sup>	Void %
10	Φ10 xH10 x 0.3	768000	500	571	75
12.7	Φ12.7 xH12.7 x 0.3	410000	400	490	80
16	Φ16 xH16 x 0.3(0.4)	214000	350	408(543)	86
25	Φ25 xH25 x 0.5(0.6)	52000	220	403(483)	88
38	Φ38 xH38 x 0.6(0.8)	15200	150	326 (435)	90
50	Φ50 xH50 x 0.8(1.0)	6500	110	322 (403)	92
76	Φ76 xH76 x 1.0(1.2)	1830	68	262(314)	95
89	Φ89 xH89 x 1.2(1.5)	1200	58	293(353)	97

**Specification for JT-MRR**

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## JINTAI Metal Cascade Ring (JT-MCR)

JT-MCR is equivalent to well known CMR:



**JT-MCR**

### JT-MCR Applications:

- Desulphurization and decarburization system in compound ammonia plant
- Decompressed plant in crude oil separated plant
- All kind of separation process such as separation of methanol
- Separation of organic acid, absorb towers etc.

### Technical Parameter

Size	Dimension mm	Quantity n/m <sup>3</sup>	Specific Surface m <sup>2</sup> /m <sup>3</sup>	Bulk Density kg/m <sup>3</sup>	Void %	Factor m <sup>-1</sup>
0P	Φ17xΦ17xH6 x 0.3	530000	427	472	94	55
1P	Φ25xΦ22xH8 x 0.3	150000	230	270	96	40
1.5P	Φ34xΦ29xH11 x 0.3	60910	198	201	97	29
2P	Φ43xΦ38xH14 x 0.4	33170	164	230	97	22
2.5P	Φ51xΦ44xH17 x 0.4	17900	127	186	97	17
3P	Φ66xΦ57xH21 x 0.4	8800	105	139	98	14
4P	Φ86xΦ76xH29 x 0.4	4200	90	143	98	10
5P	Φ131xΦ118xH41 x 0.6	1480	65	136	98	7

Specification for JT-MCR

JINTAI Group

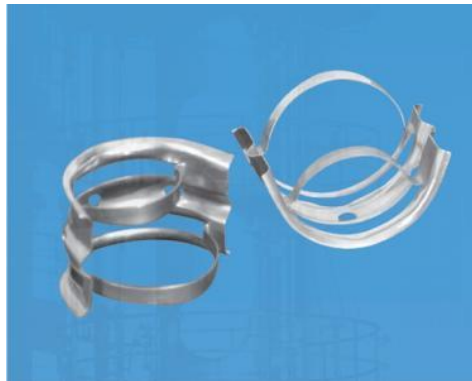
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## JINTAI Metal Nutter Ring (JT-MNR)

JT-MNR is equivalent to Nutter Ring:



JT-MNR

### JT-MNR Advantages:

- Excellent mechanical strength
- Improved efficiency due to lateral liquid diffusion and surface film renewal
- Outstanding surface utilization in mass and heat transfer applications
- Shorter packed bed heights
- Maximum piece-to-piece contact with minimal nesting
- High strength to weight ratio allows up to a 15 meters bed height
- Consistent performance due to uniform randomness

### Technical Parameter

Diameter (mm)	Number/m <sup>3</sup>	Weight (kg/m <sup>3</sup> )	Surface area (m <sup>2</sup> /m <sup>3</sup> )	Free volume (%)
No.0.7	167400	176	226	97.7
No.1.0	67100	178	168	97.7
No.1.5	26800	181	124	97.8
No.2.0	13600	144	96	97.8
No.2.5	8800	121	83	97.9
No.3.0	4 200	133	66	98.1

Specification for JT-MNR

Other thicknesses are available upon request. The technical data are average values and approximate sizes, subject to changes and improvements. No claims may be derived from information given.

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