



**INCON**

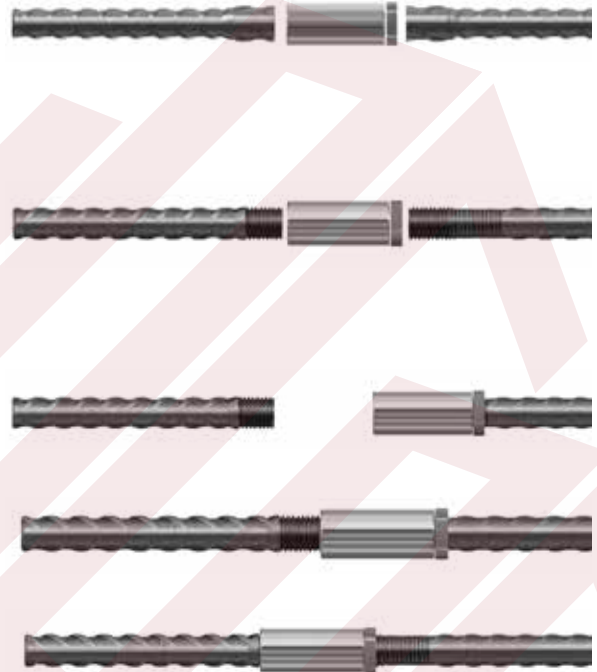


Threaded  
(ITP - Position Coupler)

## ITP – POSITION COUPLER

### INSTALLATION:

- 1- Upset the end of each reinforcing bars to form an enlarged region using INCON's forging machine.
- 2- Thread the forged ends of the bars using INCON's threading machine. The longer thread consists of an effective portion that extends over the enlarged zone and an ineffective portion that allows the coupler to be inserted temporarily.
- 3- Screw the ITP Coupler completely into the bar of longer thread length.
- 4- Align the second bar with the coupler and ensure they are in direct contact with each other.
- 5- Rotate the ITP Coupler and the lock nut in the opposite direction until the threads on the second bar are completely engaged.



### CONFIGURATION:

ITS Coupler is composed of an internally threaded steel tube that connects two threaded bars of the same size but with different threaded length.

### APPLICATIONS:

ITP Coupler is suitable for the most challenging connections when rotation in both bars is restricted while the transitional movement of only one bar is allowed.

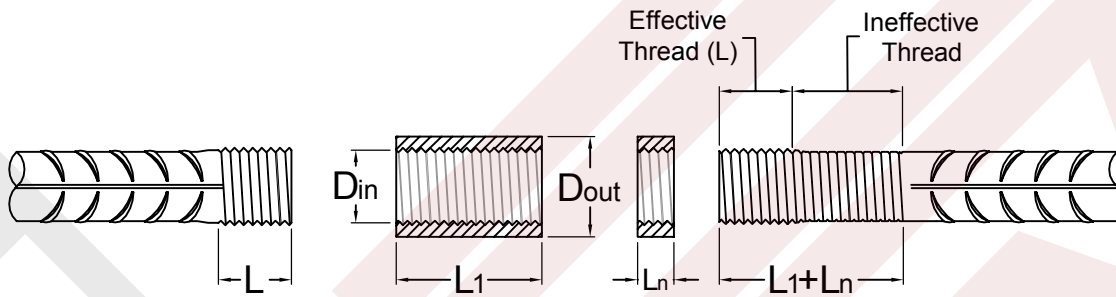
### FEATURES:

- Applicable for high strength reinforcing bars up to ASTM Grade 60.
- Conforms to the latest version of IBC, ACI 318, CSA A23.3, BS 8110, NF 35-20 and DIN 1045.
- Easily installed and highly efficient for preparing the mechanical splice on site.
- Highly reliable and consistent performance owing to our strict quality control program.
- Compact design to reduce reinforcement congestion at connections.

### AVAILABLE MATERIALS AND COATINGS:

- **Uncoated Steel:** used with uncoated steel bars in typical construction applications.
- **Galvanized Steel:** used with galvanized steel bars and for other special applications.
- **Stainless Steel:** used with stainless steel bars and for other special applications.
- **Epoxy Coated Steel:** used with epoxy coated steel bars and for other special applications.

# ITP – POSITION COUPLER



| Coupler Code | Bar Size | Outer Diameter    | Inner Diameter   | Thread Size               | Coupler Length | Thread Length on First Bar | Thread Length on Second Bar | Lock Nut Thickness |
|--------------|----------|-------------------|------------------|---------------------------|----------------|----------------------------|-----------------------------|--------------------|
|              |          | $D_{out}$<br>(mm) | $D_{in}$<br>(mm) | $M \times p$<br>(mm x mm) | $L_1$<br>(mm)  | $L$<br>(mm)                | $L_1 + L_n$<br>(mm)         | $L_n$<br>(mm)      |
| CANADA       | ITP10M   | 20.0              | 14.0             | M14x2.0                   | 28.0           | 14.0                       | 35.0                        | 7.0                |
|              | ITP15M   | 27.0              | 20.0             | M20x2.5                   | 40.0           | 20.0                       | 48.0                        | 8.0                |
|              | ITP20M   | 33.0              | 24.0             | M24x3.0                   | 48.0           | 24.0                       | 58.0                        | 10.0               |
|              | ITP25M   | 41.0              | 30.0             | M30x3.5                   | 60.0           | 30.0                       | 72.0                        | 12.0               |
|              | ITP30M   | 48.0              | 36.0             | M36x4.0                   | 72.0           | 36.0                       | 86.0                        | 14.0               |
|              | ITP35M   | 55.0              | 39.0             | M39x3.0                   | 78.0           | 39.0                       | 92.0                        | 14.0               |
|              | ITP45M   | 66.0              | 48.0             | M48x5.0                   | 96.0           | 48.0                       | 112.0                       | 16.0               |

| Coupler Code | Bar Size | Outer Diameter    | Inner Diameter   | Thread Size            | Coupler Length | Thread Length on First Bar | Thread Length on Second Bar | Lock Nut Thickness |
|--------------|----------|-------------------|------------------|------------------------|----------------|----------------------------|-----------------------------|--------------------|
|              |          | $D_{out}$<br>(in) | $D_{in}$<br>(in) | $M \times TPI$<br>(in) | $L_1$<br>(in)  | $L$<br>(in)                | $L_1 + L_n$<br>(in)         | $L_n$<br>(in)      |
| USA          | ITP#4    | 0.83              | 0.63             | 0.63x12.7              | 1.26           | 0.63                       | 1.54                        | 0.28               |
|              | ITP#5    | 1.06              | 0.79             | 0.79x10.2              | 1.57           | 0.79                       | 1.89                        | 0.31               |
|              | ITP#6    | 1.30              | 0.94             | 0.94x8.5               | 1.89           | 0.94                       | 2.28                        | 0.39               |
|              | ITP#7    | 1.46              | 1.06             | 1.06x12.7              | 2.13           | 1.06                       | 2.52                        | 0.39               |
|              | ITP#8    | 1.61              | 1.18             | 1.18x7.3               | 2.36           | 1.18                       | 2.83                        | 0.47               |
|              | ITP#9    | 1.81              | 1.30             | 1.30x7.3               | 2.60           | 1.30                       | 3.07                        | 0.47               |
|              | ITP#10   | 2.01              | 1.42             | 1.42x6.4               | 2.83           | 1.42                       | 3.39                        | 0.55               |
|              | ITP#11   | 2.17              | 1.54             | 1.54x8.5               | 3.07           | 1.54                       | 3.62                        | 0.55               |
| ITP#14       | 2.56     | 1.89              | 1.89x5.1         | 3.78                   | 1.89           | 4.41                       | 0.63                        |                    |

| Coupler Code         | Bar Size | Outer Diameter    | Inner Diameter   | Thread Size               | Coupler Length | Thread Length on First Bar | Thread Length on Second Bar | Lock Nut Thickness |
|----------------------|----------|-------------------|------------------|---------------------------|----------------|----------------------------|-----------------------------|--------------------|
|                      |          | $D_{out}$<br>(mm) | $D_{in}$<br>(mm) | $M \times p$<br>(mm x mm) | $L_1$<br>(mm)  | $L$<br>(mm)                | $L_1 + L_n$<br>(mm)         | $L_n$<br>(mm)      |
| EUROPE & MIDDLE EAST | ITP12    | 20.0              | 14.0             | M14x2.0                   | 28.0           | 14.0                       | 35.0                        | 7.0                |
|                      | ITP16    | 27.0              | 20.0             | M20x2.5                   | 40.0           | 20.0                       | 48.0                        | 8.0                |
|                      | ITP20    | 33.0              | 24.0             | M24x3.0                   | 48.0           | 24.0                       | 58.0                        | 10.0               |
|                      | ITP25    | 41.0              | 30.0             | M30x3.5                   | 60.0           | 30.0                       | 72.0                        | 12.0               |
|                      | ITP32    | 51.0              | 36.0             | M36x4.0                   | 72.0           | 36.0                       | 86.0                        | 14.0               |
|                      | ITP40    | 64.0              | 45.0             | M45x4.5                   | 90.0           | 45.0                       | 106.0                       | 16.0               |

Dimensions are subject to change without prior notice.



**INCON**



CANADA: +1 519 657 2510  
EMAIL: INFO@INCON.CA



[WWW.INCON.CA](http://WWW.INCON.CA)