



16

Section 16

Tube Clamping Components

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Tube Clamps, Connector Clamps, Base Plate Connector Clamps, Tubing



Tube connection components function like industrial Tinker Toys, and can be combined with round or square tubing to build jigs, fixtures, and operating systems. We offer a vast array of these tube clamp fittings in aluminum or stainless steel, in many configurations. Our connector clamps are available in two-way, split and multi-part assembly, flanged, base plate, and T-angle designs. We also offer a special, unique line of mini-clamps in small sizes, typically used to build support structures for mounting sensor, Plexiglas guards, etc.

We offer tubing in round and square configurations, in aluminum, steel and stainless steel. Tubing can also be supported by tube supports, joints and connectors. Motion can be incorporated into the construction using swivel clamp bases, connectors, and joints.

Another essential part of these constructions is linear actuators. These components allow for linear motion using a slider system built into a rod that incorporates threaded shafts. Along with the actuators themselves, we offer connector clamps, connectors, and base plates in a number of designs, scales, drive/transfer units, bevel-gear wheels and gear housings, as well as handwheels and digital position indicators.

Special modifications available:

- lengths
- finish/colors/plating/anodizing

Tube clamps, connector clamps and tubing are also referred to as:

- tube clamp fittings, railing clamps, square tubing clamps, round tubing clamps, guard frame clamps, cross clamps, tube connectors, and tubing connectors

Download a [printable pdf of this section index page](#)

More about our [machining and packaging capacities](#)

Read posts about [tube clamping components](#) on the J.W. Winco blog

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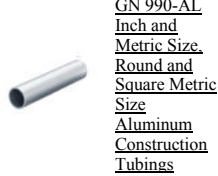
Connector Mini-Clamps

 GN 473 Metric Size Aluminum Two-Way Base Connector Mini-Clamps	 GN 474 Metric Size Aluminum Two-Way Connector Mini-Clamps	 GN 475 Metric Size Aluminum Adjustable Two-Way Connector Mini-Clamps	 GN 476 Metric Size Aluminum Two-Way T- Connector Mini-Clamps	 GN 477 Metric Size Aluminum Mini- Clamp Mounting Blocks
 GN 478 Metric Size Aluminum Connector Mini-Clamps for Sensor Brackets	 GN 480 Metric Size Steel Mini Flanged Mounting Bolts	 GN 482 Metric Size Aluminum Swivel Clamp Joints	 GN 483 Metric Size Aluminum T- Swivel Clamp Joints	 GN 484 Metric Size Aluminum Attachment Clamp Joints
 GN 485 NEW Metric Size Aluminum Swivel Clamp Connector Bases	 GN 490 Metric Size Aluminum Adjustable Two-Way Clamping Joints	 GN 511 Metric Size Zinc Die-Cast Adjustable Clamping Lever Kits for Mini-Clamps	 GN 511.1 Metric Size Adjustable Clamping Lever Kits for Swivel Clamp Joints	 GN 479 Metric Size Stainless Steel Sensor Brackets
 GN 479.1 Metric Size Stainless Steel Plain L- Shaped Mounting Brackets				

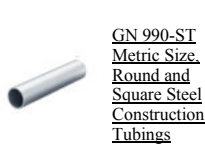
Tubing



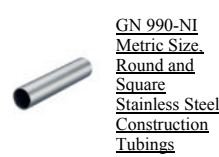
GN 480.1
Metric Size
Solid Round
Shafting and
Hollow
Round and
Square
Tubing



GN 990-AL
Inch and
Metric Size
Round and
Square Metric
Size
Aluminum
Construction
Tubings



GN 990-ST
Metric Size
Round and
Square Steel
Construction
Tubings

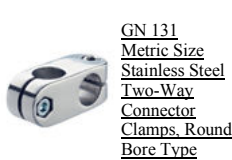


GN 990-NI
Metric Size
Round and
Square
Stainless Steel
Construction
Tubings

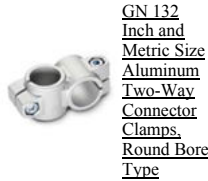
Two-Way Connector Clamps



GN 131
Inch and
Metric Size
Aluminum
Two-Way
Connector
Clamps
Round Bore
Type



GN 131
Metric Size
Stainless Steel
Two-Way
Connector
Clamps
Round
Bore Type



GN 132
Inch and
Metric Size
Aluminum
Two-Way
Connector
Clamps
Round Bore
Type



GN 132.5
NEW
Metric Size
Stainless Steel
Two-Way
Connector
Clamps
Round Bore
Type



GN 133
Metric Size
Aluminum Two-
Way Connector
Clamps
Round
Bore Type

Split and Multi-Part Assembly Two-Way Connector Clamps



GN 134
Metric Size
Aluminum
Split
Assembly
Two-Way
Connector
Clamps
Round or
Square Bore
Type

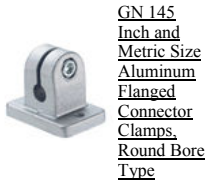


GN 135
NEW
Metric Size
Aluminum
Multi Part
Assembly
Two-Way
Connector
Clamps
Unequal Bore
Dimensions
d1/s1 and
d2/s2



GN 141
Metric Size
Aluminum
Multi-Part
Assembly
Flanged Two-
Way
Connector
Clamps
Round or
Square Bore
Type

Flanged Connector Clamps



GN 145
Inch and
Metric Size
Aluminum
Flanged
Connector
Clamps
Round Bore
Type



GN 145
Metric Size
Stainless Steel
Flanged
Connector
Clamps
Round
Bore Type



GN 146
Inch and
Metric Size
Aluminum
Flanged
Connector
Clamps
Round Bore
Type



GN 146.3
Metric Size
Aluminum
Flanged
Connector
Clamps
Round Bore
Type



GN 146.5
NEW
Inch and Metric
Size Stainless
Steel Flanged
Connector
Clamps with Four
Mounting Holes



GN 146.6
NEW
Metric Size
Stainless Steel
Flanged
Connector
Clamps with
Two
Mounting
Holes



GN 147
Metric Size
Aluminum
Split-Assembly
Flanged
Connector
Clamps
Round or
Square Bore
Type

Base Plate Connector Clamps



GN 162
Inch and
Metric Size
Aluminum
Base Plate
Connector
Clamps
Round Bore
Type



GN 162
Metric Size
Stainless Steel
Base Plate
Connector
Clamps
Round
Bore Type



GN 162.3
Metric Size
Aluminum
Off-Set Base
Plate
Connector
Clamps



GN 162.3
Metric Size
Stainless Steel
Base Plate
Connector
Clamps



GN 163
Metric Size
Aluminum Split
Assembly
Base Plate
Connector
Clamps
Round
Bore Type



GN 163.5
NEW
Metric Size
Stainless Steel
Base Plate
Connector
Clamps
Round Bore
Type



GN 165
Metric Size
Aluminum
Split-Assembly
Base Plate
Connector
Clamps
Round or
Square Bore
Type



GN 166
Metric Size
Aluminum
Off-Set Base
Plate
Connector
Clamps
Round or
Square Bore
Type



GN 167
Metric Size
Aluminum
Split
Assembly
Wide Base
Plate
Connector
Clamps
Round or
Square Bore



GN 171
Metric Size
Aluminum Split
Assembly
Flanged Base
Plate
Connector
Clamps
Round or
Square Bore
Type

T-Angle Connector Clamps



Tube Supports, Joints and Connectors



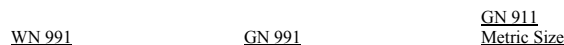
Swivel Clamp Bases, Connectors and Joints



Sensor Holders



Tube End Plugs and Clamping Lever Kits





[Inch Size Plastic Round or Square Tube End Plugs](#)



[Metric Size Plastic Round or Square Tube End Plugs](#)



[Zinc Die-Cast and Stainless Steel Adjustable Clamping Lever Kits](#)

Linear Actuators



[GN 291 Metric Size Steel Linear Actuators with Left or Right Hand Thread](#)



[GN 291-NI Metric Size Stainless Steel Linear Actuators with Left or Right Hand Thread](#)



[GN 292 Metric Size Steel Linear Actuators with Left and Right Hand Thread](#)



[GN 292-NI Metric Size Stainless Steel Linear Actuators with Left and Right Hand Thread](#)



[GN 293 Metric Size Steel Linear Actuators with Two Separate Threaded Shafts](#)



[GN 293-NI Metric Size Stainless Steel Linear Actuators with Two Separate Threaded Shafts](#)



[GN 291.1 Metric Size Steel Square Linear Actuators with Left or Right Hand Thread](#)



[GN 296 **NEW** Metric Size Installation Kits for Position Indicators Used on GN 291.1 Square Linear Actuators](#)



[GN 491 **NEW** Metric Size Steel Double Tube Linear Actuators with Right Hand Thread, Single Slider](#)



[GN 492 **NEW** Metric Size Steel Double Tube Linear Actuators with Right Hand Thread, Double Slider](#)

Linear Actuator Two-way Connector Clamps



[GN 131.1 Metric Size Aluminum Linear Actuator Two-Way Connector Clamps for Single System](#)



[GN 131.1-NI Metric Size Stainless Steel Linear Actuator Two-Way Connector Clamps for Single System](#)



[GN 131.2 Metric Size Aluminum Linear Actuator Two-Way Connector Clamps for Two-Way System](#)



[GN 131.2-NI Metric Size Stainless Steel Linear Actuator Two-Way Connector Clamps for Two-Way System](#)



[GN 132.1 Metric Size Aluminum Linear Actuator Two-Way Connector Clamps for Single System](#)



[GN 132.2 Metric Size Aluminum Linear Actuator Two-Way Connector Clamps for Two-Way System](#)

Flanged Connector Clamps



[GN 145.1 Metric Size Aluminum Flanged Linear Actuator Connectors](#)



[GN 145.1-NI Metric Size Stainless Steel Flanged Linear Actuator Connectors](#)



[GN 146.1 Metric Size Aluminum Flanged Linear Actuator Connectors](#)

Base Plate Linear Actuator Connectors



[GN 162.1 Metric Size Aluminum Base Plate Linear Actuator Connectors](#)



[GN 162.1-NI Metric Size Stainless Steel Base Plate Linear Actuator Connectors](#)



[GN 163.1 Metric Size Aluminum Base Plate Linear Actuator Connectors](#)

T-Angle Linear Actuator Connectors



[GN 191.1 Metric Size Aluminum T-Angle Linear Actuator Connectors](#)



[GN 191.1-NI Metric Size Stainless Steel T-Angle Linear Actuator Connectors](#)



[GN 192.1 Metric Size Aluminum T-Angle Linear Actuator Connectors](#)

Swivel Clamp Linear Actuator Connectors



GN 273.1
Metric Size
Aluminum
Swivel Clamp
Linear
Actuator
Connectors



GN 274.1
Metric Size
Aluminum
Swivel Clamp
Linear
Actuator
Connectors

Split Assembly Linear Actuator Connectors



GN 134.1
Metric Size
Aluminum
Split
Assembly
Linear
Actuator
Connectors



GN 147.1
Metric Size
Aluminum
Split Assembly
Linear
Actuator
Connectors



GN 165.1
Metric Size
Aluminum
Split Assembly
Linear
Actuator
Connectors

Handwheels for Linear Actuators



GN 923.18 /
GN 923.30 /
GN 923.40
Inch and
Metric Size
Flat-Faced
Solid Disk
Handwheels
for Linear
Actuators /
Transfer Units



GN 924.40 /
GN 924.50
GN 924.60
Inch and
Metric Size
Flat-Faced
Spoked
Handwheels
for Linear
Actuators /
Transfer Units

Digital Position Indicators



EN 953
Metric Size
Plastic Digital
Position
Indicators



EN 954
Metric Size
Plastic Digital
Position
Indicators

Drive / Transfer Units, Gear Wheels and Gear Housings



GN 295
Metric Size
Installation
Kits for
Position
Indicators
Used on
Linear
Actuators



GN 297
NEW
Metric Size
Bevel Gear
Wheels for
Linear
Actuators /
Transfer Units
with Angular
Gears



GN 299
Metric Size
Longitudinal
Scales for
Linear
Actuators



GN 391
Metric Size
Steel Drive /
Transfer Units



GN 391-NI
Metric Size
Stainless Steel
Drive / Transfer
Units



GN 298
Metric Size
Aluminum
Housings for
Angular / T-
Gears

Panel Support Clamps



EN 649
Metric Size
Panel Support
Clamps



EN 649.1
NEW
Adapters for
Mounting EN
649 Panel
Support
Clamps to
Round Tubing

Profile Connecting Components



GN 960
Metric Size
Angle
Brackets for
30/40/45 mm
Aluminum
Profile
Systems



GN 961
Metric Size
Angle Brackets
for 30/40 mm
Aluminum
Profile
Systems



GN 963
Metric Size
Cover Caps for
Angle
Brackets for
Aluminum
Profile
Systems



GN 967
Metric Size
Flat and L-
Shaped
Connecting
Brackets for
Aluminum
Profile
Systems



EN 561
Metric Size
Technopolvmer
Plastic Mounting
Angle Brackets



[GN 965
Metric Size
Steel T-Nut
Assemblies
for 30/40 mm
Metric Size
Aluminum T-
Slot Profile
Systems](#)

Part No.	Material	Size	Length	Weight
GN 965-1	Steel	M6	10	0.01
GN 965-2	Steel	M8	10	0.02
GN 965-3	Steel	M10	10	0.04
GN 965-4	Steel	M12	10	0.07
GN 965-5	Steel	M16	10	0.15
GN 965-6	Steel	M20	10	0.30
GN 965-7	Steel	M24	10	0.50
GN 965-8	Steel	M30	10	1.00
GN 965-9	Steel	M36	10	1.50
GN 965-10	Steel	M42	10	2.50

[GN 965 Info
Sheet
List of our
standard
components
used with GN
965 and 30/40
mm Aluminum
Profile systems](#)



[GN 968
Metric Size
Steel T-Nut
Assemblies for
30/40/50 mm
Metric Size
Aluminum T-
Slot Profile
Systems](#)

Part No.	Material	Size	Length	Weight
GN 968-1	Steel	M6	10	0.01
GN 968-2	Steel	M8	10	0.02
GN 968-3	Steel	M10	10	0.04
GN 968-4	Steel	M12	10	0.07
GN 968-5	Steel	M16	10	0.15
GN 968-6	Steel	M20	10	0.30
GN 968-7	Steel	M24	10	0.50
GN 968-8	Steel	M30	10	1.00
GN 968-9	Steel	M36	10	1.50
GN 968-10	Steel	M42	10	2.50

[GN 968 Info
Sheet
List of our
standard
components
used with GN
968 and
30/40/45 mm
Aluminum
profile systems](#)



[GN 505.4
Metric Size
Steel Serrated
T-Slot Bolts](#)



[GN 505.5
Metric Size
Stainless Steel
Serrated T-Slot
Bolts](#)



[GN 505
Metric Size
Serrated
Quarter-Turn
T-Nuts for
Metric Size
Aluminum
Extrusions](#)



[GN 506
Metric Size
Steel Roll-in
T-Nuts](#)



[GN 506.1
Metric Size Steel
T-Nuts without
Guide Step](#)



[GN 506.1
Metric Size
Stainless Steel
T-Nuts
without Guide
Step](#)



[GN 506.2
Metric Size
Steel T-Nuts
with Spring
Washer](#)



[GN 507
Metric Size
Steel T-Nuts
for Metric Size
Aluminum
Extrusions](#)