ZipCONNECTOR
Load Connector

New Load Connector Concept with Advanced Technology
Available only at FASTORQ

The ZipCONNECTOR uses Double-Zip® Technology to provide a means of robotically connecting and disconnecting heavy loads to lifting devices so that the loads can be placed or retrieved.

The ZipCONNECTOR is currently being used at the Oak Ridge National Laboratory in Tennessee where it picks up, moves, and sets heavy loads in a radioactive environment where human intervention is not possible.

The technology is based on a unique threaded nut that is cut in three segments, allowing it to open up while it is being positioned on a threaded rod, then closed on the mating threads of the rod. The thread segments are locked on the rod with the weight of the load, and will not release until the load is set down. Once the load is set down, the thread segments are released, thus allowing the ZipCONNECTOR to be disengaged from the load.

Hydraulic, electric or pneumatic cylinders (if the application allows) can also be integrated into the system to release the thread segments. The segmented design also prevents cross threading and assures full engagement of the ZipCONNECTOR to the threaded rod. Perhaps the most significant innovation is the mating of the threads without rotation.

The ZipCONNECTOR provides a simple and reliable mechanism for positioning and retrieving loads robotically in a subsea environment, either topside or subsea, where it is unsafe for humans to be present.

- ZipCONNECTOR provides a means of robotically connecting and disconnecting heavy loads to lifting devices
- ROV and diver friendly
- Eliminates the difficult use of shackels and pins, when using ROV's
- Provides a positive connection that is easy to connect and release
- Incorporates the ZipNut® Double Zip Technology, enabling the ZipCONNECTOR to operate as one unit
- Double Zip thread segments allow the ZipCONNECTOR to slide over the protruding stud threads, eliminating time consuming turning
- Can be used for all standard lifting operations, including subsea and nuclear projects
- Eliminates concern for damaged or rusty threads – simply pushes on and pulls off, no twisting, no turning
- Can be fitted with special hydraulic release mechanism for subsea applications
- Ideal for multi-point lifting applications
- All parts are stainless steel, nickel-plated or coated to provide corrosion protection

With ZipCONNECTOR, a standard threaded lifting eye can be used to retrieve or abandon objects of various sizes & weights.

FASTORQ®
The Speed of Innovation.

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Model Number	Bolt Diameter (In)	Maximum Load* (Lbs)	Maximum Load* Using 4-Pt. Lift (Lbs)	OD (In)
ZL-012	3/4	35,118	140,472	1.855
ZL-014	7/8	48,482	193,928	2.142
ZL-100	1	63,603	254,412	2.489
ZL-102	1-1/8	82,997	331,988	2.635
ZL-104	1-1/4	104,969	419,876	2.883
ZL-106	1-3/8	129,517	518,068	3.159
ZL-108	1-1/2	156,643	626,572	3.27
ZL-110	1-5/8	186,346	745,384	3.538
ZL-112	1-3/4	218,626	874,504	3.793
ZL-114	1-7/8	253,483	1,013,932	4.078
ZL-200	2	290,917	1,163,668	4.356
ZL-204	2-1/4	373,516	1,494,064	4.912
ZL-208	2-1/2	422,003	1,688,012	5.178

*** Maximum load is based on minimum yield strength of ASTM A193-B7 bolt material. Divide this amount for your required safety factor. Additional sizes available upon request. Specifications are subject to change without notice.**

ZipCONNECTORS can be custom built in size and mode of operation.

ZipCONNECTOR Load Connector
Hydraulic

Pneumatic

Electric

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