

HydraSure

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HydraSure Clamp Nuts are the modern, safe and efficient way to precise tool clamping. HydraSure Clamp Nuts replace conventional torque-loaded threaded nuts to make shaft tensioning a simple, efficient and safe hydraulically assisted operation.

They are manufactured in a wide range of sizes to suit applications throughout many industries. 'AR' Model HydraSure Clamp Nuts are made in a standard range to suit thread sizes from 50mm to 300mm and other sizes by request.

Applications

Typical HydraSure applications include:

- Metal slitting mills
- Coil rewinders
- Marine propeller shafts
- Sugar milling equipment
- Manufacturing machinery such as punches and presses
- Steel rolling mills
- Bearing setting and removal

Features

With HydraSure, precise clamp forces are generated by the internal action of hydraulic pressure acting on a constrained area within the nut. Unlike other types of hydraulic nut used in similar applications, HydraSure Clamp Nuts are fitted with mechanical locking rings to retain these tensile loads.

Other HydraSure Advantages include:

- Vastly reduces downtime and maintenance problems
- Improves productivity
- Is user friendly, fast and easy to fit
- Greatly enhances tool life
- Repeatable accuracy of the tensioning operation reduces product variation
- Achieves faster throughput without compromising product quality
- Minimises risk of personal injury and collateral damage to capital equipment during blade and tool changes
- Threaded locking collar counteracts loosening forces of impact on rotating shafts
- Requires low level of skill for operation



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HydraSure Specifications

Model #	Max Size Thread	Outside Diameter	Height	Base Diameter	Stroke mm	H.P.A. mm ²	Max Force kN
AR050	50	105	48	85	5	2 090	146
AR060	60	115	48	95	5	2 375	165
AR070	70	130	54	110	10	2 755	192
AR080	80	140	54	120	10	3 135	219
AR090	90	150	58	130	10	3 325	232
AR100	100	155	58	135	10	3515	246
AR110	110	175	58	150	10	3 895	272
AR120	120	185	58	160	10	4 180	292
AR130	130	200	58	170	10	4 465	312
AR140	140	215	58	185	10	4 845	339
AR150	150	230	58	200	10	5 225	365
AR160	160	245	68	210	15	5 605	390
AR170	170	250	68	215	15	5 795	405
AR180	180	270	68	235	15	8 361	585
AR190	190	275	68	245	15	8 614	603
AR200	200	290	74	255	15	9 121	638
AR210	210	305	74	270	15	9 627	673
AR220	220	325	74	290	15	9881	692
AR230	230	330	80	290	15	12826	898
AR240	240	340	80	300	15	13 459	942
AR250	250	355	80	320	15	14 092	986
AR260	260	365	86	330	15	14 726	1 030
AR270	270	395	86	360	15	15 993	1 120
AR280	280	395	86	360	15	15 993	1 120
AR290	290	395	86	360	15	15 993	1 120
AR300	300	420	86	385	15	17 260	1 208



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