

- for those who want the best

AGARWAL FASTNERS PVT. LTD.

Manufacturers of Stainless Steel Fasteners



Cold forged with the worlds best technology | As per AISI 304 & 316 Range from 2mm to 36mm | 1/8 to 1 inch | Length 6mm to 300mm | 1/4 to 12 inch Conforms to BS, ISI, DIN Standards & Customer Specifications | Stainless Steel Fasteners



Established in 1974, Agarwal Fastners Pvt. Ltd. (APL) has carved a niche for itself by being most respected and admired manufacturing company in India offering a wide spectrum of Stainless Steel (SS) fasteners under one roof.

APL currently has well equipped, sophisticated and state of art manufacturing plant in Maharashtra, India situated in close vicinity of Mumbai, that produces large batches of standard, Non standard, custom made as well as critical fasteners. The company flaunts a gigantic factory at Palghar, spread over land admeasuring 100,000 sq ft having capacity to produce over 18000 MT of fasteners per annum. Factory is well connected with telecommunication and transport systems. The facilities are well connected with Rail Heads, National Highways, Airport and Sea Port.

APL's visionary leadership, managed by seasoned professionals, a committed task force supported by robust IT infrastructure only supports its manufacturing facilities equipped with advanced equipment and well trained work forcerelentlessly deliver virtually Zero Defect output.



THE APL MOTTO

To adhere to the highest quality of products, prompt delivery and reliability.

THE APL POLICY

To attain 'Zero-Defect' Output

THE APL MISSION

To partner our customers in growth with top quality products and proficient service, at competitive prices.

TEAM APL

The APL's dynamic executive team comprises of highly seasoned professionals at all levels who draw inspiration from their visionary leaders who made APL a brand synonymous for Quality. The Team APL comprises of qualified experienced tooling, production and quality assurance Engineers to ensure its cutting-edge factories churn out the best Zero defect products, Management professionals in Marketing and Customer Support cell ensure customer centric approach leading to customer delight, Logistics teams on toes to make customers smile for its on-time delivery schedules always. APL thus ensures its customers of quality products, reliable service and speedy deliveries.

FASTENERS UNLIMITED

APL's ultra-modern technology, high tech machineries backed by scheduled preventive maintenance enable it to offer a large variety of fasteners ranging from M2 to M24 and 1/8 to 1 inch to suit customer requirements by both metric and imperial standards. Essentially, these are standards largely applicable by all the users of Stainless Steel bolts, nuts, screws and washers. APL products are treated for toughness, long life, and high performance and are available 24 x7. In addition, the company also customizes fasteners as per the exact specifications provided by the clients. We are proud to say that, our unmatchable large range of fasteners are being used by all kind of industries, may it be light engineering or heavy engineering industries such as the Railways, Electricity Boards, Consumer Electronics, Home Appliances, Power Electronics, Marine and more.



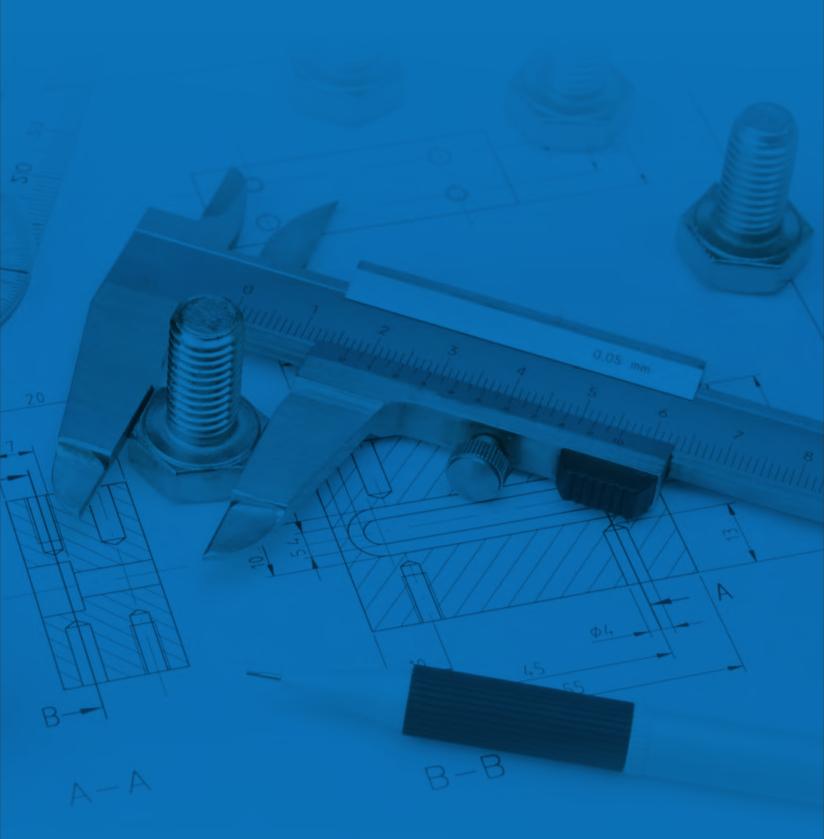
Right from their functioning to life expectancy... a good quality product speaks for itself. APL ensures that every fastener rolled out of its factories adds to its goodwill. APL fasteners, for instance, undergo rigorous quality control checks at every step of manufacturing. The raw materials used, the processes applied, the specified industry standards adhered to, are all taken care of to the last very carefully. Simultaneously, APL has taken bold steps to attain its goal of "Zero-Defect" output.



APPLAUSES & ACCOLADES

From upbeat Delhi metro to high speed Rail, marine vessels in the deep blue sea and from massive flyovers to the vibrant Automobile sector, APL has earned the trust of its clients. The company's constant endeavour to provide premium quality fasteners, washers, nuts, bolts, screws etc., has also earned it an enviable list of honors from reputed organizations.





R&D TESTING EQUIPMENT

Towing the guidelines set to achieve APL Motto and Mission of offering Highest Quality we are fully equipped with latest suitable Testing & Measuring Equipments. Our R&D team strives hard to acquire latest industry knowledge and apply latest tools that help in meeting stringent quality norms



Inspection Table



Automatic Sorting Machine

"Our R & D team strives hard to meet stringent quality norms and department is equipped with latest testing equipment viz.: Hardness Testing Machine to measure material toughness when various shape changing forces are applied, Tensile Testing Machine to measure the maximum tensile or tension the material can bear, Profile Projector an optical equipment to inspect accuracy of fastener's pitch depth, sharpness etc., Glass Optical Sorting Machine, Plate Optical Sorter Machine, Force Monitor on Forging & Threading Machine, PMI (Positive Material Identification) Equipment owned by a very few Indian fastener manufacturing companies is handy equipment to test raw material composition, and many more equipment that sets us apart from other manufacturers when it comes to offer quality".



Online Quality Monitoring System



Universal Tensile Testing Machine



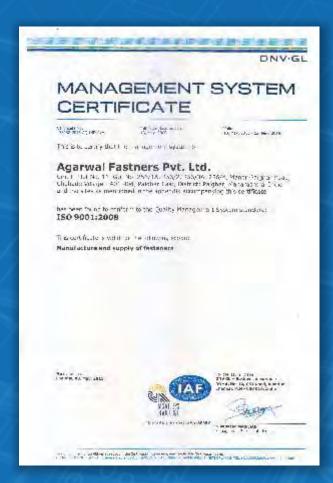
PMI Equipment



Micro Examination Testing Machine

GOVT. ACCREDITIONS

CORE APPROVALS: PGCIC Approved









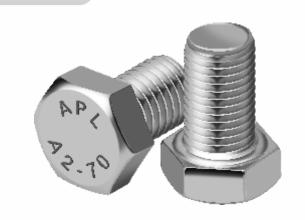
HEX SOCKET HEAD CAP SCREW



Size: M2 - M24 : 1/4" - 3/4"

HEX HEAD SCREW

DIN 933



Size: M3 - M36 : 1/4" - 1"

HEX HEAD BOLT HALF THREAD



Size: M3 - M36 : 1/4" - 1"

HEX NUT

DIN 934



Size: M2 - M36 : 1/8" - 1"

HEX LOCK NUT

DIN 439



Size: M4 - M36 : 1/4" - 1"

HEX NYLOCK NUT

DIN 982



Size: M3 - M30 : 1/4" - 3/4"

HEX FLANGE NUT

DIN 6923



Size: M4 - M20

DOME NUT

DIN 1587



Size: M4 - M30

CSK PHILIPS HEAD SCREW

DIN 965



Size: M2 - M12 : 1/8" - 1/2"

PAN PHILIPS HEAD MACHINE SCREW



Size: M2 - M12 : 1/8" - 1/2"

CSK ALLEN



Size: M3 - M12 : 3/16" - 1/2"

PAN HEAD COMBI SCREW



Size: M2 - M12 : 1/8" - 1/2"

TRUSS HEAD PHILIPS SCREW

DIN 7983



Size: M3 - M10

SOCKET BUTTON HEAD SCREW

ISO 7380



Size: M3 - M12 : 1/4" - 1/2"

HEXABULAR SOCKET PAN HEAD TORX SCREW

DIN 7985 TX



Size: M2 - M10

MUSHROOM HEAD SQUARE NECK BOLT

DIN 603



Size: M4 - M10 : 3/16" - 3/8"

PAN COMBI HEAD BUILT IN WASHER SCREW



Size: M3 - M10 : 1/8" - 3/8"

CROSS RESSESED PAN HEAD TAPPING SCREW

DIN 7981



Size: #2 - #14

COUNTERSUNK PHILIPS SELF TAPPING SCREW



SOLTTED PAN HEAD SELF TAPPING SCREW

DIN 7971



Size: #2 - #14

SLOTTED CSK SELF TAPPING SCREW



Size: #2 - #14

SELF DRILLING PAN HEAD SCREW

DIN 7504 M



Size: #2 - #14

PAN PHILIPS SEMS SCREW



Size: M2 - M10

HEX SOCKET HEAD SEMS SCREW



Size: M3 - M10

HEX HEAD SEMS SCREW

DIN 6900



Size: M4 - M10

SLOTTED CSK HEAD SCREW

DIN 963



Size: M2 - M12 : 1/8" -1/2"

SLOTTED CHEESE HEAD SCREW

DIN 84



Size: M2 - M12 : 1/8" -1/2"

SLOTTED ROUND HEAD SCREW

DIN 86



Size: M3 - M12 : 1/8" - 1/2"

HEX SOCKET SET SCREW -FLAT POINT

DIN 913



Size: M3 - M16

HEX SOCKET SET SCREW - CONE POINT

DIN 914



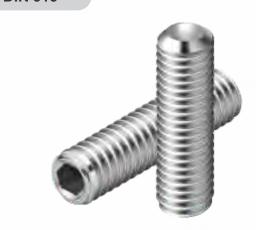
HEX SOCKET SET SCREW - DOG POINT

DIN 915



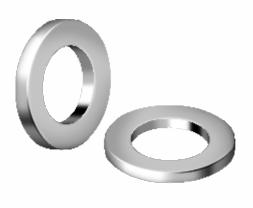
HEX SOCKET SET SCREW - CUP POINT

DIN 916



PLAIN WASHER

DIN 125



Size: M2 - M24 : 36 - 1/8"

SPRING LOCK WASHER

DIN 127



Size: M2 - 36 : 1/8" - 1"

P.B. SPRING WASHER

DIN 127



ANTITHEFT BOLT AND BREAK AWAY SECURITY NUT



HEX HEAD BOLT -WITH HOLE



HEX HEAD BOLT POINTED



HEX HEAD BOLT -BOTTOM SLOTTED



THREADED STUD -BOTH SIDE



FLAT HEAD PIN M10x25 WITH HOLE



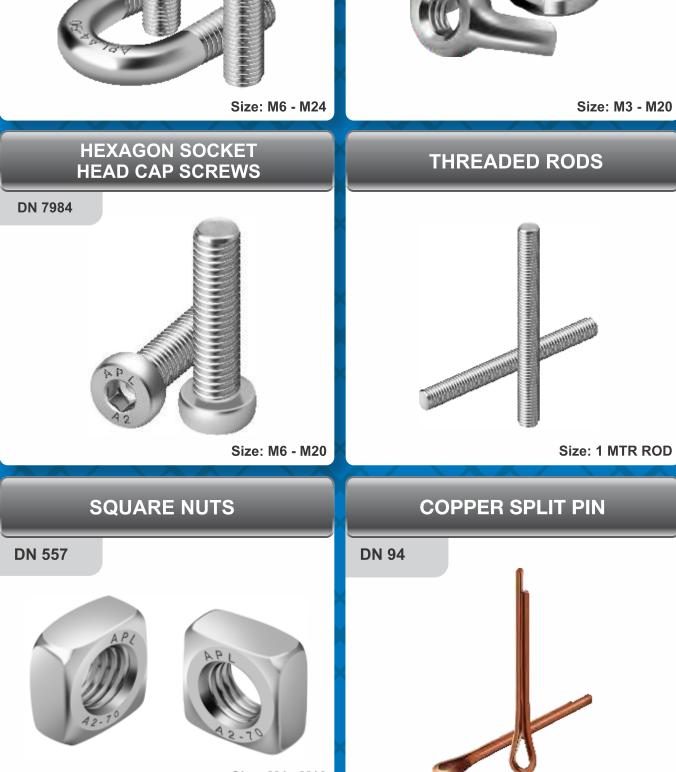
ROUND HEAD RIVET M10x35 WITH HOLE



U BOLT DN 3570











TECHNICAL INFORMATION - STAINLESS STEEL GRADES

CHEMICAL COMPOSITION (IN PERCENTAGE)											
Grade	C (Max)	Mn (Max)	P (Max)	S (Max)	Si (Max)	Cr	Ni	Мо	Nitrogen (Max)	Cu/ Others	
301	0.15	2.00	0.045	0.030	1.00	16.00 - 18.00	6.00 - 8.00	-	0.10	-	
304	0.08	2.00	0.045	0.030	0.75	18.00 - 20.00	8.00- 10.50		0.10	-	
304L	0.030	2.00	0.045	0.030	0.75	18.00 - 20.00	8.00- 12.00		0.10	-	
310S	0.08	2.00	0.045	0.030	1.50	24.00- 26.00	19.00 - 22.00	-	-	-	
316	0.08	2.00	0.045	0.030	0.75	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	0.10	-	
316L	0.030	2.00	0.045	0.030	0.75	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	0.10	-	
317	0.08	2.00	0.045	0.030	0.75	18.00 - 20.00	11.00 - 14.00	3.00 - 4.00	0.10	-	
317L	0.030	2.00	0.045	0.030	0.75	18.00 - 20.00	11.00 - 15.00	3.00 - 4.00	0.10	-	
321	0.08	2.00	0.045	0.030	0.75	17.00 - 19.00	9.00 - 12.00	-	0.10	Ti5 (C + N) Min or 0.70 Max	
347	0.08	2.00	0.045	0.030	0.75	17.00 - 19.00	9.00 - 13.00	-	-	Cb= 10x (C Min) or 1.00 Max	
409	0.08	1.00	0.040	0.010	1.00	10.50 - 11.75	0.50	-	-	Ti= 6x (C+ N) Min or 0.70 Max	
409M	0.03	0.81.2	0.030	0.030	0.40.75	11.00- 12.00	1.5 max.	-	-	Ti= 6x (C) Min or 0.70 Max	
410S	0.08	1.00	0.040	0.030	1.00	11.50- 13.50	0.60	-	-	-	
410	0.15	1.00	0.040	0.030	1.00	11.50- 13.50	0.75	-	-	-	
420	0.35	0.50	0.035	0.015	0.50	12.00 - 13.00	0.20.3	-	-	-	
430	0.12	1.00	0.040	0.030	1.00	16.00 - 18.00	0.75	-	-	-	
JSL AUS	0.08	7.08.0	0.070	0.030	0.75	15.50 - 16.50	4.25 - 4.75	-	-	0.9 - 1.10	
JS- 203	0.08	9.2510.25	0.070	0.030	0.75	14.25 - 15.25	2.25 - 2.75	-	-	1.60- 2.0	
301M	0.10	4.55.5	0.060	0.030	0.75	14.50 - 15.50	6.0 - 7.0	-	-	1.70- 1.90	

MECHANICAL PROPERTIES											
MECHANICAL PROPERTIES Overlag Tappile Strength May (Min) Violal Strength May (Min) (May) (May) (May) (May)											
Grade	Tensile Strength Mpa, (Min)	Yield Strength Mpa, (Min)	%Age Elongation in	Hardness (Max)							
			50mm gauge length min	BHN	Rb						
301	515	205	40	217	95						
304	515	205	40	201	92						
304L	485	170	40	201	92						
310S	515	205	40	217	95						
316	515	205	40	217	95						
316L	485	170	40	217	95						
317	515	205	35	217	95						
317L	515	205	40	217	95						
321	515	205	40	217	95						
347	515	205	40	201	92						
409	380	170	20	179	88						
409M	430	275	20	187	90						
410S	415	205	22	183	89						
410	450	205	20	217	89						
420	700(max)	-	15	217	95						
430	450	205	22	183	89						
JSL AUS	515	205	40	217	95						
JS- 203	515	205	40	217	95						
301M	515	205	40	217	95						

FACILITIES

Our manufacturing Facilities include the Finest Machines for Forging & Rolling for Fastener Manufacturing, which are multi station bolt formers, nut formers, screw forming headers & High Speed Flat Die Thread Rolling, tapping Machines which allows the production of all kinds of fasteners that can be cold formed. We ensure the best quality standards by utilizing the latest and the most sophisticated in quality equipments. All the products pass thru stringent quality test before packaging.



Polishing plant



Bolt Forming Machine



Wire Drawing Facility - In House



Screw Treading Machine



Raw Material Stock Yard

PACKAGING & DELIVERY

Our customer friendly Packaging system consists of primary and secondary packaging in standard inner and outer boxes with product identification bar coded labels as per customer requirements with full traceability. For safe and secure delivery we adopt international standards for packaging & shipments that include making pallets, shrink packaging and containerisation within our factory premises.



GLOBAL REACH

We have been consistently exporting our world class SS fasteners around the world particularly in developed world counties like Germany, Italy, Dubai, Poland, France, Austria, Mauritius, Turkey, Spain, Netherland, Sweden, U.K. etc...







NEW RACKING SYSTEM

STORAGE 500 TONES of READY STOCK





Manufacturing infrastructure is spread over **90000 sq. ft.** of area equipped with **state-of-the-art technology** & tools for precision workmanship. It is one of the best facilities in the country that can be held up to any global standard.



SOME OF OUR CLIENTS



AGARWAL FASTNERS PVT. LTD.

Manufacturers of Stainless Steel Fasteners

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