

# COMPANY

PROFILE/EN





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VIPA S.P.A.







**VIPA was established in 1970**, when Adelio Poppi and his wife, Leandrina Vaccari, started distributing and selling bolts and screws. After 50 years, VIPA Spa keeps growing thanks to the leadership of the founders' sons, Vilson and Paolo.

Since the beginning, VIPA's priority was to meet customers' requirements relying on its stock and ensuring prompt delivery and an excellent quality/price ratio.

**VIPA is active in Italy and across the world** thanks to a consolidated network of suppliers and collaborators, an automated warehouse and on-site presence to ensure high-quality products and services.

With a view to the expansion and improvement of its service, VIPA has over the years expanded its range and **in 2014 set up the Sealing Division with the aim of increasing the range of products in the Small Parts class for end-user customers and distributors.**

1970

Vipa was founded


2014

The sealing division  
was founded

2021

Vipa is a leader in screws and  
bolts





“ Thanks to our in-depth knowledge of the sector and the wide range of products available, we can assist our customers throughout the purchasing process, helping them to choose the most suitable products for their needs. All this is complemented by attentive customer service and a cutting-edge quality laboratory.

”





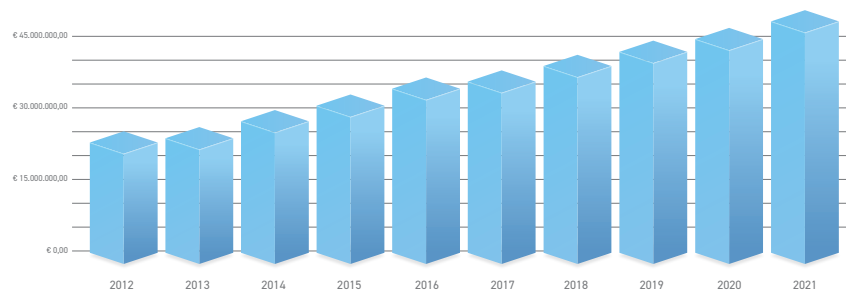
# MISSION

## Customer focus

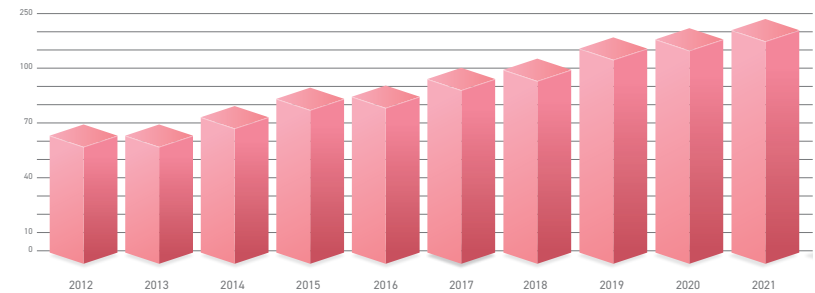
The organisation of VIPA's activities is based on attention and diligence in following the up customers' requests at every stage. This allows us to provide **extremely high levels of quality service**, meeting all market demands with punctuality, reliability and efficiency.

Our **sales staff** take care of customer relations directly, offering helpfulness, expertise and professionalism, aimed at satisfying any request at any level of interest as quickly as possible.

Turnover



Number of employees









# WAREHOUSE 4.0

The **automated warehouse**, which occupies most of the building, is capable of storing **up to 120,000 euro-pallets** and is equipped with modern technology and equipment aimed at maximising the effectiveness/efficiency ratio in the organisation and distribution of products. The work of the **experienced warehouse managers** ensures that orders are prepared quickly and on time.

The spacious premises and systematic organisation make it possible to use more than **75,000 products**, which are available in a wide range of treatments for marketing and immediate delivery.

AUTOMATED  
WAREHOUSE





VIPA  
Fasteners  
France  
S.A.R.L.

VIPA  
Fasteners  
Deutschland  
GmbH

VIPA  
Sealing  
Division  
CHINA

VIPA  
Hispania  
S.L

VIPA SpA.  
Italy





# BRANCHES

## ITALY

### ROLO

Via Cantonazzo 20/22,  
42047 Rolo - Reggio Emilia  
Tel. 0039.0522.658900  
Fax 0039.0522.658911  
[www.vipafasteners.com](http://www.vipafasteners.com)  
[info@vipafasteners.com](mailto:info@vipafasteners.com)

### FORLI

Via Copernico 83,  
47122 Forlì Forlì - Cesena

### PADOVA

Via Luigi Einaudi 34,  
35030 Saccolongo - Padova

### UDINE

Via Oselin 110,  
33047, Remanzacco - Udine

### TORINO

Strada Commenda 14 F/G,  
10072, Caselle Torinese - Torino

### BARI

Stada Statale 96 km 180+ 100.  
70026, Modugno, Bari

## BRANCHES

### VIPA Fasteners Deutschland GmbH

Robert Bosch Strasse, 9  
63225 Langen (Hessen) Deutschland  
Tel: +49.61035099982  
Fax: +49.61035099983  
[info@de.vipafasteners.com](mailto:info@de.vipafasteners.com)

### VIPA Hispania S.L

C/Cami de la Caseta 16  
08185 Lliça de Vall (Barcelona) España  
Tel. +34.938436549  
Fax. +34.93843908  
[info@es.vipasfasteners.com](mailto:info@es.vipasfasteners.com)

### VIPA Fasteners France S.A.R.L.

2, rue Marius Berliet  
Saint Bonnet de Mure 69720  
Tel. +33.482910801 • +33.482910802  
Fax: +33.482910800  
[info@fr.vipafasteners.com](mailto:info@fr.vipafasteners.com)

### VIPA Yancheng Trading CO. LTD

Yancheng-4th Block Nr. 10 Liujiang Road  
Yancheng Development Zone  
Jiangsu - China





# QUALITY



1.



## Managing supply sources

Based on an assessment and audit of suppliers and their performance, partnerships are established to ensure a standardised product and process quality over time. This ensures high-quality screws and bolts with accurate and timely deliveries.

2.



## Product and process control

From arrival to shipment through traceability flows, VIPA keeps its processes under control and defines control steps for all products in its range. A strong point is the technical laboratory, equipped with no less than 10 machines, where specialised personnel carry out controls **to guarantee that the product is always of the highest quality.**

The continuous commitment to the implementation and improvement of **the company's quality system** and the customer focus has resulted in the SGS quality management system being recognised by an accredited third party in accordance with **UNI EN ISO 9001:2015.**

Moreover, for years VIPA SPA has achieved and maintained CE Marking accreditation by an authorised party in accordance with the **EN 15048** standard for uncontrolled tightening structural bolts.

VIPA S.p.A. has also adopted its own internal quality policy, inspired by its reference values, and aimed at guaranteeing its constant application in the various company processes.





# THE DEPARTMENTS

Logistics



Automated warehouse



Qualified personnel



Quality control



## Fastener Division

Vipa's Fastener Division pursues the constant goal of maximising customer satisfaction by following the principle of "BUY TOGETHER!".

VIPA is constantly committed to:

- Activating a logistic service to meet various requirements;
- Arranging a large automated warehouse to fulfil orders more efficiently and effectively and improve the work environment;
- Relying on qualified personnel who is enthusiastic to help customers throughout their purchase experience;
- Increasingly implementing the quality control laboratory, ensuring an excellent standard of goods.

## Sealing Division

Vipa decided to open the **Sealing Division** in 2014 to expand its product range in the Small Parts class for end-user customers and distributors. With CHO Sealing Technologies, Vipa has found the right manufacturer and partner for the development of its Sealing Division.

CHO started its business in 1980 in Taiwan and found that the market demanded **highly specialised, quality sealing rings**. During these 25 years CHO's specialisation has expanded and the company is currently supplying OEM and After-market customers in more than 150 countries.







# THE SECTORS



Industrial supplies



Power transfer



Agricultural equipment and machines



Industrial tyres



Steel structures



Home appliances



Automobile industry



Fastening systems



Industrial shelving



Axial ventilators



Axles



Equipment for the poultry sector



Electric pumps



Solutions for the furniture, sliding doors and glass industry



Cereal storage systems



Industrial automation systems



Shipbuilding industry



Agricultural spare parts



Industrial machinery and equipment



Packaging industry



Renewable energies





# INDUSTRY SERVICES

Maximum efficiency for  
industrial customers



VIPA's customer-oriented focus and many years of experience have made it clear that **industrial customers have different needs** than retail customers, requirements stemming from the industrial production rationale.

For this reason, we felt it was necessary to implement solutions and proposals that would meet the needs of this market.

To better serve our customers, we have combined a quality product with **industry-specific services** to ensure maximum efficiency for those who choose us as their supplier.





# KANBAN

KANBAN Implementing a **VIPA V-Lean system** in your company enables streamlining of material procurement and **optimisation of warehouse management**, all of which translates into **significant time and cost savings**.

With the support of the **V-Lean supply chain team**, VIPA provides a consulting service for implementing the V-Lean Kanban system and consolidate the partnership between clients and suppliers.

By analysing the production process, VIPA helps you define the following **parameters for achieving effective Kanban**:

AVERAGE ITEM CONSUMPTION  
PER TIME UNIT



AVERAGE KANBAN  
STOCK COVERAGE



SAFE STOCK LEVEL



CONTAINER SIZING  
AND QUANTITY







# LOST-WAX CASTING

Efficiency and flexibility



Decrease in production times



Cost containment



Production of **steel and alloy mechanical parts** with complex shapes through lost-wax casting.

This is a casting process for making mechanical parts **with complex shapes, recesses, cavities, undercuts**, which cannot be made by other technological processes such as cold forging, hot forging, forging or other forming techniques, except by welding several parts together.

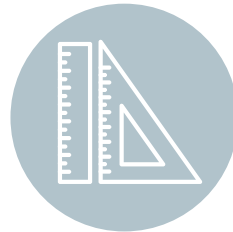
This makes lost-wax casting an **efficient and flexible process**, suitable for various industrial applications, which enables production times to be reduced and the cost of the finished product and the equipment needed to make it to be contained. Finally, aesthetic improvements are also achieved.





# CUSTOMISED ARTICLES AND SPECIAL PRODUCTS

## Assistance and know-how



VIPA's long experience in the field of screws, bolts and small metal parts in general allows us to meet our customer's requirements in the field of **customised parts**, which can be supplied in different shapes, materials and finishes.

Our experienced **technical staff** can offer the customer support and expertise in the supply of customised products, sourced from the market in accordance with the technical specifications agreed with our customer.

The technical area is equipped with a modern CAD design system, enabling the realisation of drawings of parts in accordance with customer requirements.





# PACKAGING KIT

Packaging and  
customisation



VIPA offers a **Kit Packaging** service to meet specific requests for the **outsourcing** of this production process step for our customer.

The Packaging Kit service offers the possibility to **customise** the packaging (envelopes and boxes) according to our customer's needs by creating personalised labels with the necessary texts and barcodes.

Outsourcing this Kit Packaging activity to VIPA allows our customer to have flexible, certain and lower costs thanks to our economies of scale, as well as to benefit from a predefined and continuously monitored service level.





# DISTRIBUTION SERVICES

Maximum efficiency for  
distributor customers



Hardware shops, retailers, distributors and all professionals who need a **reliable**, fast partner with the widest range of products can find in VIPA the solution to their problems in the supply of screws, bolts and fastening systems.

We at VIPA know our customers and have developed services for them that, in their simplicity of use, reveal the **great professionalism and experience** of a solid company that has been in business for over 50 years.





# VIPA SHOP

Order with just  
a few clicks



7 days a week, 24 hours a day... 365 days a year. Vipa Shop, Vipa's B2B service, is the ideal way to check availability and place an order with just a few clicks. Forget about mistakes because working with VIPA has never been easier!

**What about deliveries?** Goods will be shipped and delivered according to the best possible timing for each user.

## V-Easy

Error-free  
utmost simplicity



V-Lean Easy is the ideal solution for small and medium-sized retailers that simplifies material reordering procedures.

The lightweight and easy-to-use laser barcode scanner. Thanks to its compact size it can easily fit in your pocket.

With just two buttons (charge/correct) it is easy to scan barcodes. The data is stored in the scanner (up to 15,000 codes) and is quickly transferred via a USB cable during charging.

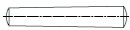

Once you have downloaded the data, you can send your order to VIPA in a practical, fast and accurate way. This process is error-free and very simple.














# THE RANGE FASTENERS



## CRUDE AND TREATED IRON STEEL



DIN	ISO	UNI
1B	2339	7283
TAPER PINS		
		
		MATERIAL 6
FINISH 		



DIN	ISO	UNI
125A	7089	6592
FLAT WASHERS		
		
		MATERIAL HV100 HV200 HV300
FINISH    		



DIN	UNI
137A	8840A
WAVE SPRING WASHERS	
	
FINISH 	






DIN	ISO	UNI
433	7092	1749 SIM
SMALL FLAT WASHERS		
		
		MATERIAL HV100 HV200 HV300
FINISH 		



DIN	UNI
471H	7436
REINFORCED RETAINING RINGS FOR SHAFTS (EXTERNAL)	
	
FINISH 	



DIN	UNI
562	5596
THIN SQUARE NUTS	
	
FINISH 	



HEXALOBULAR FLAT HEAD CHIP BOARD SCREWS	
	
FINISH 	



DIN	ISO	UNI
7	2338/B	1707
DOWEL PINS		
		
		MATERIAL 6
FINISH 		



DIN	UNI
127B	1751
HELICAL SPRING WASHERS (GROWER)	
	
FINISH    	



DIN	UNI
137B	8840B
WAVE SPRING WASHERS	
	
FINISH 	



DIN	UNI
434	6598
CHANNEL CLAMPING PLATES FOR UPN SECTIONS	
	
FINISH 	



DIN	UNI
472	7437
RETAINING RINGS FOR HOLES (INTERNAL)	
	
FINISH 	



DIN	UNI
571	704
HEX HEAD WOOD SCREWS	
	
FINISH 	



DIN	UNI
580	2947
LIFTING EYE BOLTS	
	
FINISH 	



DIN	ISO	UNI
84	1207	6107
SLOTTED PAN HEAD SCREWS		
		
		MATERIAL 4.8
FINISH 		



DIN	UNI
128A	8839A
HELICAL SPRING WASHERS (GROWER)	
	
FINISH 	

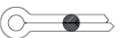

DIN	UNI
315 SIM	5448
WING NUTS	
	
FINISH 	



DIN	ISO
439	4035 / 8675
THIN HEX NUTS	
	
FINISH 	



DIN	UNI
472HV	7438
REINFORCED RINGS FOR HOLES (INTERNAL)	
	
FINISH 	



HEX FLANGED HEAD WOOD SCREWS	
	
FINISH 	



DIN	UNI
582	2948
LIFTING EYE NUTS	
	
FINISH 	



DIN	ISO	UNI
94	1234	1336
SPLIT PINS		
		
		MATERIAL 3.6
FINISH 		



DIN	UNI
128B	8839B
HELICAL SPRING WASHERS (GROWER)	
	
FINISH 	

DIN	UNI
316 SIM	5449
WING SCREWS	
	
FINISH 	

DIN	UNI
471	7435
RETAINING RINGS FOR SHAFTS (EXTERNAL)	
	
FINISH 	



DIN	UNI
557	5597
CHAMFERED SQUARE NUTS	
	
FINISH 	



CROSS RECESSED FLAT HEAD DRYWALL SCREWS	
	
FINISH 	

DIN	UNI
601	5727
HEX HEAD SCREWS WITH BOLTS FOR STEEL STRUCTURES	
	
FINISH 	

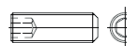



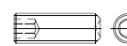

# CRUDE AND TREATED IRON STEEL





DIN	ISO	UNI
603	8677	5731
<b>CARRIAGE BOLTS (MUSHROOM HEAD SQUARE NECK BOLTS SCREWS)</b>		
		
MATERIAL		
6S		
8.8		
FINISH 		



DIN	ISO	UNI
<b>BOLTS FOR BLADES</b>		
		
MATERIAL		
8.8		
10.9		
12.9		
FINISH 		



DIN	ISO	UNI
910		
<b>HEX HEAD SCREW PLUG WITH COLLAR- CYLINDRICAL THREAD</b>		
		
MATERIAL		
4.8		
FINISH 		



DIN	ISO	UNI
913	4026	5923
<b>HEX SOCKET SET SCREW WITH FLAT POINT</b>		
		
MATERIAL		
8.8		
12.9		
FINISH 		



DIN	ISO	UNI
916	4029	5929
<b>CUP POINT HEX SOCKET SET SCREWS</b>		
		
MATERIAL		
12.9		
FINISH 		

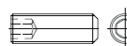

DIN	ISO	UNI
931	4014	5737
<b>PARTIAL THREAD HEX HEAD SCREWS</b>		
		
MATERIAL		
8.8		
10.9		
12.9		
FINISH   		



DIN	UNI
935	5593
<b>HIGH HEX SLOTTED CASTLE NUTS</b>	
	
MATERIAL	
6S	
FINISH 	





DIN	ISO	UNI
605 / 555		
<b>COUNTERSUNK BOLTS WITH NUT</b>		
<b>COUNTERSUNK FLAT HEAD 120° BOLT</b>		
		
MATERIAL		
8.8		
FINISH 		





DIN	UNI	EN	ISO
741	13411/5		
<b>WIRE ROPE CLIPS</b>			
<b>CAST IRON WIRE ROPE CLIPS</b>			
			
MATERIAL			
6			
FINISH 			



DIN	ISO	UNI
911 SIM	2936 SIM	6753 SIM
<b>HEXAL KEYS FOR SOCKET HEX SCREWS</b>		
		
MATERIAL		
6.8		
FINISH 		



DIN	ISO	UNI
913	4026	5924
<b>HEX SOCKET SET SCREW WITH FLAT POINT FINE THREAD</b>		
		
MATERIAL		
12.9		
FINISH 		





DIN	ISO	UNI
917		
<b>CAP NUTS</b>		
		
MATERIAL		
6S		
FINISH 		

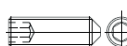

DIN	ISO	UNI
933	4017	5739
<b>FULL THREAD HEX HEAD SCREWS</b>		
		
MATERIAL		
4.8		
8.8		
10.9		
12.9		
FINISH   		



DIN	UNI
936	5589
<b>THIN HEX NUTS</b>	
	
MATERIAL	
17H	
22H	
FINISH   	

DIN	ISO	UNI
605		
<b>COUNTERSUNK BOLTS</b>		
<b>COUNTERSUNK FLAT HEAD 120° BOLT WITH NUT</b>		
		
MATERIAL		
8.8		
FINISH 		





DIN	ISO	UNI
906		
<b>INTERNAL DRIVE PIPE PLUG WITH CONICAL THREAD HEX SOCKET</b>		
		
MATERIAL		
6		
FINISH 		



DIN	ISO	UNI
912	4762	5931
<b>HEX SOCKET HEAD CAP SCREWS</b>		
		
MATERIAL		
8.8		
10.9		
12.9		
FINISH   		



DIN	ISO	UNI
914	4027	5927
<b>CONE POINT HEX SOCKET SET SCREWS</b>		
		
MATERIAL		
12.9		
FINISH 		





DIN	ISO	UNI
928		
<b>SQUARE WELDING NUTS</b>		
		
MATERIAL		
6S		
FINISH 		



DIN	UNI
934	5588
<b>MEDIUM HEX NUTS</b>	
<b>LEFT THREAD AVAILABLE, ANSI B18 2.2 UNC THREAD, ASTM A194 2H</b>	
	
MATERIAL	
8 / 6S	
10 / 8G	
12	
FINISH   	



DIN	UNI
937	5594
<b>THIN HEX SLOTTED CASTLE NUTS</b>	
	
MATERIAL	
17H	
FINISH   	



DIN	ISO	UNI
608		
<b>COUNTERSUNK BOLTS</b>		
<b>COUNTERSUNK FLAT HEAD 90° BOLT</b>		
		
MATERIAL		
8.8		
FINISH 		

DIN	ISO	UNI
908		
<b>INTERNAL DRIVE PIPE PLUG WITH CONICAL COLLAR CYLINDRICAL HEX SOCKET</b>		
		
MATERIAL		
6		
FINISH 		

DIN	ISO	UNI
912	12474	5932
<b>HEX SOCKET HEAD CAP SCREWS</b>		
		
MATERIAL		
8.8		
10.9		
12.9		
FINISH   		

DIN	ISO	UNI
915	4028	5925
<b>HEX SOCKET SET SCREWS WITH DOG POINT</b>		
		
MATERIAL		
12.9		
FINISH 		





DIN	ISO	UNI
929		
<b>HEX WELDING NUTS</b>		
<b>LARGE WRENCH AVAILABLE</b>		
		
MATERIAL		
6S		
FINISH 		





DIN	ISO	UNI
939		
<b>MEDIUM TAP END STUDS</b>		
		
MATERIAL		
5.8		
8.8		
10.9		
FINISH 		







FINISH: RAW  BLACK ZINC PLATED  BLACK OXIDE  ZINC PLATED  HOT DEEP GALVANIZED  YELLOW ZINC PLATED  BRONZE PLATED  GEOMET  NICKEL PLATED 


# THE RANGE FASTENERS





DIN	ISO	UNI
960	8765	5738
PARTIAL THREAD HEX HEAD SCREWS FINE THREAD		
		
MATERIAL		
8.8		
10.9		
FINISH   		

DIN	ISO	UNI
965	7046	7688
CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS		
		
MATERIAL		
4.8		
FINISH   		





DIN	
976	
METRIC THREADED RODS	
	
MATERIAL	
ASTM 193 B7	
FINISH 	

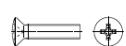



SLOTTED ROUND LOCKING NUTS FOR HOOK SPANNER TYPE GP		
		
MATERIAL		
5S		
FINISH 		



DIN	
988	
SHIM WASHERS	
	<b>MATERIAL</b> TIPO PS (ST2K50) TIPO SS (SPRING STEEL)

DIN	UNI
1587	5721-69
HEX DOMED CAP NUTS	
	
MATERIAL	
6S	
FINISH   	



ISO	
4017	
FULL THREAD HEX HEAD SCREWS	
	MATERIAL
	8.8
	10.9
FINISH 	



DIN	ISO	UNI
961	8676	5740
FULL THREAD HEX HEAD SCREWS FINE THREAD		
		
MATERIAL		
8.8		
10.9		
FINISH   		

DIN	ISO	UNI
966	7047	7689
CROSS RECESSED COUNTERSUNK RAISED HEAD SCREWS		
		
MATERIAL		
4.8		
FINISH   		



DIN	ISO
980V	7042
HEX FULL METAL LOCK NUTS CONELOCK	
	
MATERIAL	
8 / 6S	
10 / 8G	
FINISH 	



DIN	ISO	UNI
982	7040/10512	7473
NYLON INSERT HIGH HEX LOCK NUTS		
		
MATERIAL		
6		
8 / 6S		
10 / 8G		
FINISH 		



DIN	UNI
1434	1710
CLEVIS PIN WITH HEAD WITH SPLIT PIN HOLE	
	
MATERIAL	
6	
FINISH 	





DIN	
1624	
T NUTS WITH PRONGS	
	MATERIAL
	6S
FINISH 	



ISO	
4032	
MEDIUM HEX NUTS COARSE THREAD	
	MATERIAL
	8 / 6S
FINISH   	



DIN	ISO	UNI
963	2009	6109
SLOTTED COUNTERSUNK FLAT HEAD SCREWS		
		
MATERIAL		
4.8		
FINISH 		







DIN	
967 SIM	
POZI COMBI TRUSS HEAD MACHINE SCREWS	
WITHOUT COLLAR AVAILABLE	
	MATERIAL 4.8
FINISH 	



DIN	
981	
KM SLOTTED ROUND NUTS	
	MATERIAL
	5S
FINISH	





DIN	ISO	UNI
985	10511/10513	7474
NYLON INSERT HEX LOCK THIN NUTS		
		
MATERIAL		
8 / 6S		
10 / 8G		
FINISH   		



DIN	
1480	
TURNBUCKLES	
	MATERIAL
	FE430B
FINISH 	



DIN	UNI
2093	8737 SIM
DISC SPRINGS	
	
MATERIAL	
SPRING STEEL	
FINISH 	

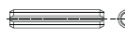

ISO	UNI
4033	5587
HIGH HEX NUTS COARSE THREAD	
<div><div></div><div>MATERIAL</div><div>8 / 6S</div><div>10 / 8G</div></div>	
FINISH	<div></div>




DIN	ISO	UNI
964	2010	6110
SLOTTED COUNTERSUNK RAISED HEAD SCREWS		
		
MATERIAL		
4.8		
FINISH 		



DIN	UNI
975	6547
METRIC THREADED RODS	
LEFT THREAD AVAILABLE	
	
MATERIAL	
4.8	
8.8	
10.9	
12.9	
FINISH   	

SLOTTED ROUND LOCKING NUTS FOR HOOK SPANNER TYPE GN		
		
MATERIAL		
5S		
FINISH 		

DIN	
986	
HEX DOMED LOCK NUTS WITH NYLON CAP	
	MATERIAL
	8 / 6S
FINISH 	








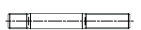



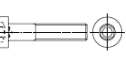
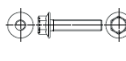

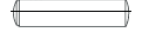



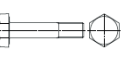

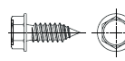







DIN	ISO	UNI
1481	8752	6873-71
HEAVY-DUTY SPRING PINS		
		
MATERIAL		
SPRING STEEL		
FINISH 		

ISO	
4014	
PARTIAL THREAD HEX HEAD SCREWS	
	MATERIAL
	8.8
	10.9
FINISH	  

DIN	
5406	
MB TOOH WASHERS	
	MATERIAL
	6
FINISH 	



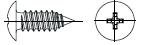















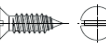















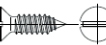








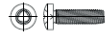









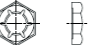








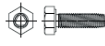

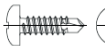






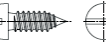




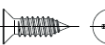



# CRUDE AND TREATED IRON STEEL

<b>UNI</b> <b>5732</b> <b>CARRIAGE BOLTS AND NUT (MUSHROOM HEAD SQUARE NECK BOLTS SCREWS)</b>  <b>MATERIAL</b> 6S <b>FINISH</b>	<b>DIN</b> <b>6334</b> <b>UNI</b> <b>5535</b> <b>EXTENSION NUTS</b>  <b>MATERIAL</b> 6S 10 / 8G <b>FINISH</b>	<b>DIN</b> <b>6798A</b> <b>UNI</b> <b>8842A</b> <b>SERRATED LOCK WASHERS, INTERNAL TEETH</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6799</b> <b>UNI</b> <b>7434</b> <b>RADIAL CIRCLIPS FOR SHAFTS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6899</b> <b>THIMBLES</b>  <b>MATERIAL</b> FE360B <b>FINISH</b>	<b>DIN</b> <b>6916</b> <b>ISO</b> <b>7416</b> <b>UNI</b> <b>5714</b> <b>STRUCTURAL PLAIN WASHERS</b>  <b>MATERIAL</b> HV300 <b>FINISH</b>	<b>DIN</b> <b>6926</b> <b>ISO</b> <b>7043</b> <b>HEX FLANGED NYLON INSERT LOCK NUTS</b>  <b>MATERIAL</b> 6S <b>FINISH</b>
<b>UNI</b> <b>5911</b> <b>MEDIUM TAP END STUDS</b>  <b>MATERIAL</b> 8.8 <b>FINISH</b>	<b>DIN</b> <b>6796</b> <b>CONICAL SPRING WASHERS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6798AJ</b> <b>UNI</b> <b>8842AJ</b> <b>SERRATED LOCK WASHERS, INTERNAL TEETH</b> DOUBLE TEETH  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>BEARING RINGS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6912</b> <b>HEX SOCKET THIN HEAD CAP SCREWS WITH PILOT RECESS</b>  <b>MATERIAL</b> 8.8 10.9 <b>FINISH</b>	<b>DIN</b> <b>6921</b> <b>ISO</b> <b>1665</b> <b>HEX FLANGE SCREWS WITH OR WITHOUT SERRATION</b>  <b>MATERIAL</b> 4.8 8.8 10.9 <b>FINISH</b>	<b>DIN</b> <b>6927</b> <b>ISO</b> <b>7044</b> <b>HEX FLANGED FULL METAL LOCK NUTS</b>  <b>MATERIAL</b> 8 / 6S 10 / 8G <b>FINISH</b>
<b>DIN</b> <b>6325</b> <b>ISO</b> <b>8734A</b> <b>UNI</b> <b>6364A</b> <b>TEMPERED DOWEL PINS</b>  <b>MATERIAL</b> 5 <b>FINISH</b>	<b>DIN</b> <b>6797A</b> <b>UNI</b> <b>8841A</b> <b>SERRATED LOCK WASHERS, EXTERNAL TEETH</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6798J</b> <b>UNI</b> <b>8842J</b> <b>SERRATED LOCK WASHERS, INTERNAL TEETH</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6885A</b> <b>ISO</b> <b>R773</b> <b>UNI</b> <b>6604/A</b> <b>PARALLEL KEYS</b> BARS AVAILABLE  <b>MATERIAL</b> 5 <b>FINISH</b>	<b>DIN</b> <b>6914</b> <b>UNI</b> <b>5712</b> <b>HEX HEAD SCREWS FOR STEEL STRUCTURES</b>  <b>MATERIAL</b> 10.9 <b>FINISH</b>	<b>DIN</b> <b>6923</b> <b>ISO</b> <b>4161</b> <b>HEX FLANGED NUTS WITH OR WITHOUT SERRATION</b>  <b>MATERIAL</b> 6S 10 / 8G <b>FINISH</b>	<b>DIN</b> <b>6928</b> <b>UNI</b> <b>6950</b> <b>HEX WASHER HEAD TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>
<b>DIN</b> <b>6330</b> <b>HEX NUTS H 1,5 Ø</b>  <b>MATERIAL</b> 10 / 8G <b>FINISH</b>	<b>DIN</b> <b>6797J</b> <b>UNI</b> <b>8841J</b> <b>SERRATED LOCK WASHERS, INTERNAL TEETH</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6798V</b> <b>UNI</b> <b>8842V</b> <b>COUNTERSUNK TOOTHED WASHERS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>DIN</b> <b>6888</b> <b>ISO</b> <b>3912</b> <b>UNI</b> <b>6606</b> <b>WOODRUFF KEYS</b>  <b>MATERIAL</b> 5 <b>FINISH</b>	<b>DIN</b> <b>6915</b> <b>UNI</b> <b>5713</b> <b>HEX HEAD BOLTS FOR STEEL STRUCTURES</b>  <b>MATERIAL</b> 10 / 8G <b>FINISH</b>	<b>DIN</b> <b>6923</b> <b>ISO</b> <b>4161</b> <b>HEX FLANGED NUTS WITH OR WITHOUT SERRATION</b>  <b>MATERIAL</b> 6S 10 / 8G <b>FINISH</b>	<b>UNI</b> <b>6947</b> <b>SOCKET HEAD CAP TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>






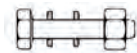
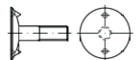












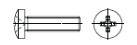


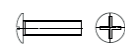
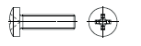




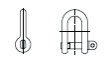

FINISH: RAW  BLACK ZINC PLATED  BLACK OXIDE  ZINC PLATED  HOT DEEP GALVANIZED  YELLOW ZINC PLATED  BRONZE PLATED  GEOMET  NICKEL PLATED 

# THE RANGE FASTENERS

<b>PHILLIPS TRUSS HEAD TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>  	<b>ISO</b> <b>7380/1</b> <b>BUTTON HEAD SOCKET SCREWS</b> HEXALOBED OR FLANGED AVAILABLE  <b>MATERIAL</b> 10.9 <b>FINISH</b>    	<b>DIN</b> <b>7500E</b> <b>HEX SOCKET HEAD CAP TRILOBULAR SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b> 	<b>DIN ISO UNI</b> <b>7504P 15482 8119</b> <b>COUNTERSUNK HEAD DRILLING SCREWS</b> HEXALOBED AVAILABLE  <b>MATERIAL</b> C15 <b>FINISH</b>  	<b>DIN</b> <b>7505C</b> <b>POZI OVAL FLAT HEAD CHIPBOARD SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>  	<b>DIN ISO UNI</b> <b>7972 1482 6952</b> <b>SLOTTED COUNTERSUNK HEAD TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>  	<b>DIN</b> <b>7980</b> <b>SQUARE SECTION HELICAL SPRING WASHERS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>  
<b>DIN ISO UNI</b> <b>7343 8750 6875</b> <b>SPIRAL SPRING PINS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b> 	<b>UNI</b> <b>7474</b> <b>NYLON INSERT HEX LOCK THIN NUTS</b>  <b>MATERIAL</b> 6S 10 / 8G <b>FINISH</b> 	<b>DIN UNI</b> <b>7500M 8113</b> <b>CROSS RECESSED COUNTERSUNK FLAT HEAD TRILOBULAR SCREWS</b> HEXALOBED AVAILABLE  <b>MATERIAL</b> C15 <b>FINISH</b> 	<b>DIN ISO UNI</b> <b>7504P 15482 8119</b> <b>SIM SIM SIM</b> <b>COUNTERSUNK HEAD DRILLING SCREWS</b>  <b>FINISH</b> 	<b>DIN UNI</b> <b>7993 7433</b> <b>RETAINING RINGS FOR RB HOLES</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b> 	<b>DIN ISO UNI</b> <b>7973 1483 6953</b> <b>SLOTTED COUNTERSUNK RAISED HEAD TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>  	<b>DIN ISO UNI</b> <b>7981 7049 6954</b> <b>PHILLIPS PAN HEAD SELF TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>   
<b>DIN ISO UNI</b> <b>7344 8748 6876</b> <b>HEAVY-DUTY SPIRAL SPRING PINS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b> 	<b>DIN UNI</b> <b>7500C 8112</b> <b>CROSS RECESSED PAN HEAD TRILOBULAR SCREWS</b> HEXALOBED AVAILABLE  <b>MATERIAL</b> C15 <b>FINISH</b>  	<b>DIN ISO UNI</b> <b>7504K 15481 8117</b> <b>FLANGED HEX HEAD DRILLING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b> 	<b>DIN</b> <b>7505A</b> <b>POZI FLAT HEAD CHIPBOARD SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>    	<b>DIN</b> <b>7967</b> <b>PAL HEX SELF LOCKING COUNTER NUTS</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>  	<b>DIN ISO UNI</b> <b>7976 1479 6949</b> <b>HEX HEAD TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b> 	<b>DIN ISO UNI</b> <b>7981F 7049 6954BZ</b> <b>PHILLIPS PAN HEAD SELF TAPPING SCREWS W/O POINT</b>  <b>MATERIAL</b> C15 <b>FINISH</b> 
<b>ISO</b> <b>7379</b> <b>SHOULDER SCREWS WITH COLLAR</b>  <b>MATERIAL</b> 12.9 <b>FINISH</b> 	<b>DIN UNI</b> <b>7500D 8110</b> <b>HEX HEAD TRILOBULAR SCREW</b>  <b>MATERIAL</b> C15 <b>FINISH</b> 	<b>DIN ISO UNI</b> <b>7504N 15481 8118</b> <b>PAN HEAD DRILLING SCREWS</b> HEXALOBED OR TC CROSS AVAILABLE  <b>MATERIAL</b> C15 <b>FINISH</b>  	<b>DIN</b> <b>7505B</b> <b>POZI PAN HEAD CHIPBOARD SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>   	<b>DIN ISO UNI</b> <b>7971 1481 6951</b> <b>SLOTTED PAN HEAD TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b> 	<b>DIN ISO UNI</b> <b>7979D 8735 6364B</b> <b>TEMPERED DOWEL PINS WITH INTERNAL THREAD</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>  	<b>DIN ISO UNI</b> <b>7982 7050 6955</b> <b>PHILLIPS COUNTERSUNK FLAT HEAD SELF TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>   



# CRUDE AND TREATED IRON STEEL

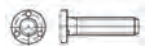
<b>DIN ISO UNI</b> <b>7982F 7050 6955BZ</b> <b>PHILLIPS COUNTERSUNK FLAT HEAD SELF TAPPING SCREWS W/O POINT</b>  <b>MATERIAL</b> C15 <b>FINISH</b>	<b>DIN ISO UNI</b> <b>7991 10642 5933</b> <b>HEX SOCKET COUNTERSUNK SCREWS</b>  <b>MATERIAL</b> 8.8 10.9 <b>FINISH</b>	<b>WIDE FLAT WASHERS INCREASED THICKNESS</b>  <b>MATERIAL</b> HV100 <b>FINISH</b>	<b>UNI EN ISO</b> <b>ISO 14399</b> <b>STRUCTURAL BOLTS HV TYPE</b>  <b>MATERIAL</b> 10.9 <b>FINISH</b>	<b>DIN</b> <b>15237</b> <b>SEATING SCREWS</b>  <b>MATERIAL</b> 4.8 <b>FINISH</b>	<b>DIN UNI</b> <b>71412C 7663C</b> <b>90° GREASE NIPPLES</b>  <b>MATERIAL</b> 8.8 <b>FINISH</b>	<b>ASME</b> <b>B18.3</b> <b>HEX SOCKET HEAD CAP SCREWS UNC / UNF</b>  <b>MATERIAL</b> ASTM A574
<b>DIN ISO UNI</b> <b>7983 7051 6956</b> <b>PHILLIPS COUNTERSUNK RAISED HEAD SELF TAPPING SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>	<b>UNI</b> <b>8111</b> <b>THREE-LOBED HEX SELF-TAPING SCREWS WITH FLANGE</b>  <b>MATERIAL</b> C15 <b>FINISH</b>	<b>UNI</b> <b>9195</b> <b>HELICAL SPRING WASHERS HEAVY TYPE (GROWER)</b>  <b>MATERIAL</b> SPRING STEEL <b>FINISH</b>	<b>ISO</b> <b>14580</b> <b>HEXALOBULAR SOCKET THIN HEAD CAP SCREWS</b>  <b>MATERIAL</b> 8.8 <b>FINISH</b>	<b>DIN</b> <b>25201</b> <b>BOLT SECURING WASHERS</b>  <b>MATERIAL</b> 465/540 <b>FINISH</b>	<b>DIN UNI</b> <b>71752 1676</b> <b>THREAD CLEAVES</b> CLIPS FOR FORKS AVAILABLE  <b>MATERIAL</b> 6 <b>FINISH</b>	<b>ANSI</b> <b>B18.2.1</b> <b>HEX HEAD SCREWS UNC / UNF</b>  <b>MATERIAL</b> 8.8 <b>FINISH</b>
<b>DIN UNI</b> <b>7984 9327</b> <b>HEX SOCKET THIN HEAD CAP SCREWS</b> ISO 14580 HEXALOBED AVAILABLE  <b>MATERIAL</b> 8.8 10.9 <b>FINISH</b>	<b>ISO UNI</b> <b>8674 5587</b> <b>THIN PITCH HIGH HEX NUTS</b>  <b>MATERIAL</b> 8 / 6S 10 / 8G <b>FINISH</b>	<b>UNI</b> <b>9707</b> <b>PHILLIPS PAN HEAD HI/ LO SELF TAPPING SCREWS FOR PLASTIC</b> HEXALOBED OR TC TIP AVAILABLE  <b>MATERIAL</b> C15 <b>FINISH</b>	<b>ISO</b> <b>14583</b> <b>HEXALOBULAR PAN HEAD SCREWS</b>  <b>MATERIAL</b> 4.8 <b>FINISH</b>	<b>DIN UNI</b> <b>71412A 7663A</b> <b>STRAIGHT GREASE NIPPLES</b>  <b>MATERIAL</b> 8.8 <b>FINISH</b>	<b>DIN</b> <b>74361</b> <b>WHEEL NUTS</b>  <b>MATERIAL</b> 10 / 8G <b>FINISH</b>	<b>ROOFING SCREWS</b>  <b>MATERIAL</b> 4.8 <b>FINISH</b>
<b>DIN ISO UNI</b> <b>7985 7045 7687</b> <b>CROSS RECESSED PAN HEAD SCREWS</b>  <b>MATERIAL</b> 4.8 8.8 <b>FINISH</b>	<b>DIN ISO UNI</b> <b>9021 7093/7094 6593</b> <b>WIDE BAND FLAT WASHERS</b> NON-STANDARD SIZES AND THICKNESSES AVAILABLE  <b>MATERIAL</b> HV100 <b>FINISH</b>	<b>DIN</b> <b>11023</b> <b>LINCH PINS</b>  <b>MATERIAL</b> 6 <b>FINISH</b>	<b>UNI EN ISO</b> <b>15048 - 1</b> <b>STRUCTURAL BOLTS (HEX. HEAD BOLT + NUT)</b>  <b>MATERIAL</b> 8.8 <b>FINISH</b>	<b>DIN UNI</b> <b>71412B 7663B</b> <b>45° GREASE NIPPLES</b>  <b>MATERIAL</b> 8.8 <b>FINISH</b>	<b>DIN</b> <b>82101</b> <b>SHACKLES</b>  <b>MATERIAL</b> FE430B <b>FINISH</b>	<b>PAN HEAD CONCRETE SCREWS</b>  <b>MATERIAL</b> C15 <b>FINISH</b>



FINISH: RAW  BLACK ZINC PLATED  BLACK OXIDE  ZINC PLATED  HOT DEEP GALVANIZED  YELLOW ZINC PLATED  BRONZE PLATED  GEOMET  NICKEL PLATED 

# THE RANGE FASTENERS

## PAN HEAD SCREWS TAB FIAT 10453



MATERIAL  
R50

FINISH 

## ANSI

### B18.2.2

## MEDIUM HEX NUTS UNC / UNF



MATERIAL  
ASTM A194 2H

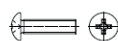
FINISH 

## EPDM GASKET WITH METAL WASHER



MATERIAL  
EPDM

## CROSS RECESSED TRUSS HEAD SCREWS



MATERIAL  
4.8

FINISH 

## BREAKAWAY NUTS



MATERIAL  
AVP

FINISH 

## NFE

### 25-511

## NF E 25/511 CONTACT SPRING WASHERS



MATERIAL  
SPRING  
STEEL  
A2

FINISH 

## FLANGED CROSS RECESSED TRUSS HEAD SCREWS



MATERIAL  
C15

FINISH 

## TRIBLOCK HEX NUTS



MATERIAL  
8 / 6S

FINISH 

## SERRATED SPRING WASHERS



MATERIAL  
C70  
SPRING  
STEEL

FINISH 

## ANSI

### B18.2.2

## MEDIUM HEX NUTS UNC / UNF



MATERIAL  
6S

FINISH 

## R SAFETY COTTER PINS





MATERIAL  
SPRING  
STEEL


FINISH 





## STAINLESS STEEL


DIN	ISO	UNI
7	2338/B	1707
DOWEL PINS		
	MATERIAL A2	


DIN	UNI
127B	1751
HELICAL SPRING WASHERS (GROWER)	
	MATERIAL A2 A4

DIN	ISO
439	4035 / 8675
THIN HEX NUTS	
	MATERIAL A2 A4


DIN	UNI
582	2948
LIFTING EYE NUTS	
	MATERIAL A4


DIN	ISO	UNI
913	4026	5923
HEX SOCKET SET SCREW WITH FLAT POINT		
	MATERIAL A2 A4	


DIN	
917	
CAP NUTS	
	MATERIAL A2


DIN	UNI
934	5588
MEDIUM HEX NUTS	
	MATERIAL A2 A4


DIN	ISO	UNI					
84	1207	6107					
SLOTTED PAN HEAD SCREWS							
	MATERIAL A2 A4						


DIN	UNI
137A	8840A
WAVE SPRING WASHERS	
	MATERIAL A2

DIN	UNI
471	7435
RETAINING RINGS FOR SHAFTS (EXTERNAL)	
	MATERIAL A2


DIN	ISO	UNI
603	8677	5731
CARRIAGE BOLTS (MUSHROOM HEAD SQUARE NECK BOLTS SCREWS)		
	MATERIAL A2 A4	


DIN	ISO	UNI
914	4027	5927
CONE POINT HEX SOCKET SET SCREWS		
	MATERIAL A2 A4	


DIN	
929	
HEX WELDING NUTS	
	MATERIAL A2


DIN	UNI
936	5589
THIN HEX NUTS	
	MATERIAL A2 A4


DIN	ISO	UNI					
94	1234	1336					
SPLIT PINS							
	MATERIAL A2						


DIN	UNI
315 SIM	5448
WING NUTS	
	MATERIAL A2 A4

DIN	UNI
472	7437
RETAINING RINGS FOR HOLES (INTERNAL)	
	MATERIAL A2


DIN	UNI EN ISO
741	13411/5
WIRE ROPE CLIPS	
	MATERIAL A4


DIN	ISO	UNI
915	4028	5925
HEX SOCKET SET SCREWS WITH DOG POINT		
	MATERIAL A2 A4	


DIN	ISO	UNI
931	4014	5737
PARTIAL THREAD HEX HEAD SCREWS		
	MATERIAL A2 A4	


DIN	ISO	UNI
963	2009	6109
SLOTTED COUNTERSUNK FLAT HEAD SCREWS		
	MATERIAL A2 A4	


DIN	ISO	UNI					
125A	7089	6592					
FLAT WASHERS							
	MATERIAL A2 A4						


DIN	ISO	UNI
433	7092	1749 SIM
SMALL FLAT WASHERS		
	MATERIAL A2 A4	

DIN	UNI
571	704
HEX HEAD WOOD SCREWS	
	MATERIAL A2 A4

DIN	ISO	UNI
912	4762	5931
HEX SOCKET HEAD CAP SCREWS		
	MATERIAL A2 A4	

DIN	ISO	UNI
916	4029	5929
CUP POINT HEX SOCKET SET SCREWS		
	MATERIAL A2 A4	


DIN	ISO	UNI
933	4017	5739
FULL THREAD HEX HEAD SCREWS		
	MATERIAL A2 A4	


DIN	ISO	UNI
964	2010	6110
SLOTTED COUNTERSUNK RAISED HEAD SCREWS		
	MATERIAL A2 A4	





**FINISH:** RAW  BLACK ZINC PLATED  BLACK OXIDE  ZINC PLATED  HOT DEEP GALVANIZED  YELLOW ZINC PLATED  BRONZE PLATED  GEOMET  NICKEL PLATED 

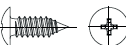
# THE RANGE FASTENERS


DIN	ISO	UNI
965	7046	7688
CROSS RECESSED COUNTERSUNK FLAT HEAD SCREWS		
		
MATERIAL		
A2		
A4		


DIN	ISO	UNI
982	7040/10512	7473
NYLON INSERT HIGH HEX LOCK NUTS		
		
MATERIAL		
A2		
A4		


DIN	UNI
1587	5721-69
HEX DOMED CAP NUTS	
	
MATERIAL	
A2	
A4	


DIN	UNI
6798J	8842J
SERRATED LOCK WASHERS, INTERNAL TEETH	
	
MATERIAL	
A2	
A4	


DIN	ISO	UNI
7505B		
POZI PAN HEAD CHIPBOARD SCREWS		
		
MATERIAL		
A2		



DIN	ISO	UNI
7982	7050	6955
PHILLIPS COUNTERSUNK FLAT HEAD SELF TAPPING SCREWS		
		
MATERIAL		
A2		
A4		

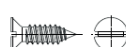
DIN	ISO	UNI
966	7047	7689
CROSS RECESSED COUNTERSUNK RAISED HEAD SCREWS		
		
MATERIAL		
A2		
A4		


DIN	ISO	UNI
985	10511/10513	7474
NYLON INSERT HEX LOCK THIN NUTS		
		
MATERIAL		
A2		
A4		


ISO	UNI
4033	5587
HIGH HEX NUTS COARSE THREAD	
	
MATERIAL	
A2	
A4	


DIN	UNI
6799	7434
RADIAL CIRCLIPS FOR SHAFTS	
	
MATERIAL	
A2	



ISO	
7380/1	
BUTTON HEAD SOCKET SCREWS	
HEXALOBED OR FLANGED AVAILABLE	
	
MATERIAL	
A2	
A4	


DIN	ISO	UNI
7972	1482	6952
SLOTTED COUNTERSUNK HEAD TAPPING SCREWS		
		
MATERIAL		
A2		

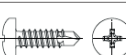
DIN	ISO	UNI
7983	7051	6956
PHILLIPS COUNTERSUNK RAISED HEAD SELF TAPPING SCREWS		
		
MATERIAL		
A2		
A4		


DIN	UNI
975	6547
METRIC THREADED RODS	
	
MATERIAL	
A2	
A4	


DIN	
1480	
TURNBUCKLES	
	MATERIAL
	A4


DIN	
6330	
HEX NUTS H 1,5 Ø	
	
MATERIAL	
A2	


DIN	ISO	UNI
6885A	R773	6604/A
PARALLEL KEYS		
		
MATERIAL		
A4		


DIN	ISO	UNI
7504N	15481	8118
PAN HEAD DRILLING SCREWS		
		
MATERIAL		
A2		


DIN	ISO	UNI
7976	1479	6949
HEX HEAD TAPPING SCREWS		
		
MATERIAL		
A2		


DIN	UNI
7984	9327
HEX SOCKET THIN HEAD CAP SCREWS	
	
MATERIAL	
A2	

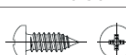
DIN	ISO
980V	7042
HEX FULL METAL LOCK NUTS CONELOCK	
	
MATERIAL	
A2	

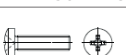
DIN	ISO	UNI
1481	8752	6873-71
HEAVY-DUTY SPRING PINS		
		
MATERIAL		
A2		

DIN	UNI
6798A	8842A
SERRATED LOCK WASHERS, EXTERNAL TEETH	
	
MATERIAL	
A2	
A4	

DIN	ISO
6921	1665
HEX FLANGE SCREWS WITH OR WITHOUT SERRATION	
	
MATERIAL	
A2	

DIN	
7505A	
POZI FLAT HEAD CHIPBOARD SCREWS	
	
MATERIAL	
A2	
A4	


DIN	ISO	UNI
7981	7049	6954
PHILLIPS PAN HEAD SELF TAPPING SCREWS		
		
MATERIAL		
A2		
A4		


DIN	ISO	UNI
7985	7045	7687
CROSS RECESSED PAN HEAD SCREWS		
		
MATERIAL		
A2		
A4		



# STAINLESS STEEL

# FASTENING, CLAMPING

DIN	ISO	UNI
7991	10642	5933
HEX SOCKET COUNTERSUNK HEAD SCREWS		
		
MATERIAL		
A2		
A4		

CAGE NUTS
6S ZB AVAILABLE

MATERIAL
A2

O RING

MATERIAL
VITON
NBR

HEAVY DUTY HOSE CLAMP SUPER

MATERIAL
W1

INOX HOSE (COMMERCIAL)


MATERIAL
W2
W4
W5


ONE EAR CLIP


MATERIAL
A4
ST34


CLIP CLAMP


MATERIAL
W4


DIN	ISO	UNI
9021	7093/7094	6593
WIDE FLAT WASHERS		
		
MATERIAL		
A2		
A4		


SERRATED SPRING WASHERS

MATERIAL
A2


NYLON CLAMPS

MATERIAL
NYLON


FIXED DIAMETER S CLAMP

MATERIAL
W1


TWO EAR CLIP

MATERIAL
ST34


ONE EAR CLIP WITH INNER RING

MATERIAL
ST34


STEPLESS EAR CLAMP

MATERIAL
W1


ISO	
14581	
HEXALOBULAR SOCKET COUNTERSUNK HEAD SCREWS	
	
MATERIAL	
A2	

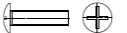
DIN	
3017	
WORM DRIVE HOSE CLIP "S" C.T.	
	
MATERIAL	
W3	


RUBBER LINED P CLIP

MATERIAL
W1
W4

SPRING CLIP (AML)

MATERIAL
W4

WIRE CLIP WITH SCREW (AAT)

MATERIAL
W4

NORMAL CLAMP

MATERIAL
W4
INOX AISI 304

ROOFING SCREWS

MATERIAL
A2

HEAVY DUTY HOSE CLAMP INOX SUPRA

MATERIAL
W2
W4
W5

BALL ZONE EXHAUST PIPE CLAMP

MATERIAL
W1

SPRING CLIP STANDARD

MATERIAL
W1

ELASTIC WIRE CLIP (AAL)

MATERIAL
W4





























OPEN WORM DRIVE CLIP

MATERIAL
W2



FINISH: RAW  BLACK ZINC PLATED  BLACK OXIDE  ZINC PLATED  HOT DEEP GALVANIZED  YELLOW ZINC PLATED  BRONZE PLATED  GEOMET  NICKEL PLATED 

# THE RANGE FASTENERS

<b>WORM DRIVE HOSE CLIP "L" C.T.</b> 	<b>MATERIAL</b> W3	<b>DISPLAY UNIT ASFA "L" 9 MM</b> 	<b>MATERIAL</b> W1 W2 W4	<b>DIN</b> <b>3127/1</b> <b>BITS FOR SLOTTED SCREWS</b> MILLED BITS C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR PHILIPS SCREWS</b> COLD FORGED BITS KAPPATOR C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR PHILIPS SCREWS</b> TIN MILLED BITS E 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR POZIDRIVE SCREWS</b> TIN COLD FORGED BITS C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR POZIDRIVE SCREWS</b> TIN COLD FORGED BITS E 6,3	
<b>WORM DRIVE HOSE CLIP ASFA "L" 9 MM</b> 	<b>MATERIAL</b> W1 W2 W3 W4 W5	<b>DISPLAY UNIT ASFA "S" 12 MM</b> 	<b>MATERIAL</b> W1 W2 W4	<b>DIN</b> <b>3127/1</b> <b>BITS FOR SLOTTED SCREWS</b> TIN MILLED BITS C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR PHILIPS SCREWS</b> TIN COLD FORGED BITS C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR PHILIPS SCREWS</b> TIN COLD FORGED BITS E 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR POZIDRIVE SCREWS</b> MILLED BITS E 6,3		<b>DIN</b> <b>7426</b> <b>BITS FOR HEX SCREWS</b> BITS C 6,3	
<b>WORM DRIVE HOSE CLIP ASFA "S" 12 MM</b> 	<b>MATERIAL</b> W1 W2 W3 W4 W5	<b>CLIPS ASSORTMENT BOXES ASFA "L" 9 MM</b> 	<b>MATERIAL</b> W1 W2 W4 W5	<b>DIN</b> <b>3127/1</b> <b>BITS FOR SLOTTED SCREWS</b> MILLED BITS E 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR PHILIPS SCREWS</b> MILLED BITS E 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR POZIDRIVE SCREWS</b> COLD FORGED BITS C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR POZIDRIVE SCREWS</b> COLD FORGED BITS E 6,3		<b>DIN</b> <b>7426</b> <b>BITS FOR HEX SCREWS</b> BITS E 6,3	
<b>9 MM "L" ASFA BLISTER</b> 	<b>MATERIAL</b> W1	<b>CLIPS ASSORTMENT BOXES ASFA "S" 12 MM</b> 	<b>MATERIAL</b> W1 W2 W4	<b>DIN</b> <b>3128</b> <b>BITS FOR PHILIPS SCREWS</b> COLD FORGED BITS C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR PHILIPS SCREWS</b> COLD FORGED BITS E 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR POZIDRIVE SCREWS</b> COLD FORGED BITS KAPPATOR C 6,3		<b>DIN</b> <b>3128</b> <b>BITS FOR POZIDRIVE SCREWS</b> TIN MILLED BITS E 6,3		<b>BITS FOR TORX SCREWS</b> BITS C 6,3	



# FASTENING, CLAMPING

## BITS FOR TORX SCREWS

TIN BITS C 6,3



## INSERTS FOR TORX SCREWS WITH HOLE

BITS FOR TORX SCREWS WITH HOLE



## DOME HEAD STANDARD RIVETS

NARROW / WIDE / XL HEAD



MATERIAL  
AL/AC

## STEEL THREADED INSERTS WITH CYLINDRICAL HEAD AND HEX SHANK



MATERIAL  
STEEL

FINISH

## STEEL THREADED INSERTS CYLINDRICAL HEAD CLOSED END TYPE

KNURLING AVAILABLE



MATERIAL  
STEEL

FINISH

## STAINLESS STEEL THREADED INSERTS CYLINDRICAL HEAD



MATERIAL  
A2

## NYLON PLUGS WITH COLLAR



MATERIAL  
NYLON

## BITS FOR TORX SCREWS

BITS E 6,3



## MIX PHILLIPS / POZIDRIVE

BITS SET 11 PCS.



## STEEL THREADED INSERTS WITH CYLINDRICAL HEAD

KNURLING AVAILABLE



MATERIAL  
STEEL

FINISH

## STEEL THREADED INSERTS WITH REDUCED HEAD AND HEX SHANK



MATERIAL  
STEEL

FINISH

## STEEL KNURLED THREADED INSERTS FILETS COUNTERSUNK HEAD CLOSED END TYPE



MATERIAL  
STEEL

FINISH

## STAINLESS STEEL THREADED INSERTS FILETS COUNTERSUNK HEAD



MATERIAL  
A2

## NYLON PLUGS WITHOUT COLLAR



MATERIAL  
NYLON

## BITS FOR TORX SCREWS

TIN BITS E 6,3



## MIX PHILLIPS / POZIDRIVE / SLOTTED

BITS SET 9+3 PCS.



## STEEL THREADED INSERTS FILETS COUNTERSUNK HEAD

KNURLING AVAILABLE



MATERIAL  
STEEL

FINISH

## STEEL THREADED INSERTS WITH CYLINDRICAL HEAD AND PARTIALLY HEX SHANK



MATERIAL  
STEEL

FINISH

## STEEL THREADED INSERTS REDUCED HEAD HEXAL SHANK CLOSED END TYPE



MATERIAL  
STEEL

FINISH

## ALUMINIUM THREADED INSERTS FILETS COUNTERSUNK HEAD



MATERIAL  
ALUMINIUM

FINISH

## BRASS PLUGS



MATERIAL  
BRASS

## BITS FOR TORX SCREWS WITH HOLE

INSERTS FOR TORX SCREWS WITH HOLE



## 18 PIECES/ MIX PHILLIPS / POZIDRIVE / SLOTTED / TORX / HEXAGON

9+3 BIT COMPOSITION DISPLAY



## STEEL THREADED INSERTS WITH REDUCED HEAD

KNURLING AVAILABLE



MATERIAL  
STEEL  
A2  
A4

FINISH

## STEEL THREADED INSERTS WITH REDUCED HEAD AND PARTIALLY HEX SHANK



MATERIAL  
STEEL

FINISH

## STEEL THREADED INSERTS REDUCED HEAD HEXAL SHANK CLOSED END TYPE



MATERIAL  
STEEL

FINISH

## ALUMINIUM THREADED INSERTS FILETS COUNTERSUNK HEAD



MATERIAL  
STEEL

FINISH

## ANCHOR BOLT W/NUT AND WASHER + CERT.OPZ.7




MATERIAL  
8.8

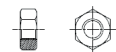
FINISH





FINISH: RAW BLACK ZINC PLATED BLACK OXIDE ZINC PLATED HOT DEEP GALVANIZED YELLOW ZINC PLATED BRONZE PLATED GEOMET NICKEL PLATED


## BRASS, ALUMINIUM, COPPER, NYLON, PLASTIC

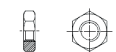
DIN	ISO	UNI
84	1207	6107
SLOTTED PAN HEAD SCREWS		
		MATERIAL NYLON BRASS

DIN	UNI
934	5588
MEDIUM HEX NUTS	
	
<b>MATERIAL</b>	
NYLON	
BRASS	


DIN	UNI
975	6547
METRIC THREADED RODS	
	
MATERIAL	
BRASS	


DIN	
7603A	
COPPER/ALUMINIUM SEALING WASHERS	
	<b>MATERIAL</b> NATURAL COPPER  BRICK COPPER  NATURAL ALUMINIUM


DIN	ISO	UNI
125A	7089	6592
FLAT WASHERS		
		MATERIAL NYLON BRASS


DIN	UNI
936	5589
THIN HEX NUTS	
	
MATERIAL	
BRASS	

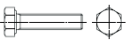
DIN	ISO	UNI
985	10511/10513	7474
NYLON INSERT HEX LOCK THIN NUTS		
		MATERIAL BRASS


DIN	ISO	UNI
9021	7093/7094	6593
WIDE FLAT WASHERS		
		MATERIAL NYLON BRASS


DIN	UNI
315 SIM	5448
WING NUTS	
	
MATERIAL	
BRASS	

DIN	ISO	UNI
963	2009	6109
SLOTTED COUNTERSUNK FLAT HEAD SCREWS		
		MATERIAL NYLON BRASS

DIN	UNI	
1587	5721-69	
HEX DOMED CAP NUTS		
		MATERIAL
		BRASS

DIN	ISO	UNI
933	4017	5739
FULL THREAD HEX HEAD SCREWS		
		MATERIAL NYLON BRASS

DIN	ISO	UNI
964	2010	6110
SLOTTED COUNTERSUNK RAISED HEAD SCREWS		
		MATERIAL BRASS

ISO	UNI	
4033	5587	
HIGH HEX NUTS COARSE THREAD		
		MATERIAL BRASS



	TYPE C	TYPE B			TYPE A	TYPE G	PARTLY		WIPER SEAL	
	STANDARD	O.D.METAL			O.D.METAL REINFORCED	O.D.CORRUGATED	METAL / RUBBER			
S SINGLE LIP										
	SC	SB2	SB	SBZ	SA2	SG	SB04	SBG04	WPB	WPC
T DOUBLE LIP										
	TC	TB2	TB	TBZ	TB2	TG	TB04	TBG04	DKB	DKC
V SINGLE LIP (W/O SPRING)										
	VC	VB2	VB	VBZ	VA2	VG	VB04	VBG04	GA	LBH
K DOUBLE LIP (W/O SPRING)										
	KC	KB2	KB	KBZ	KA2	KG	KB04	KBG04	DKH	GC
D LIP DOUBLE SPRING										
	DC	DB2	DB	DBZ	DA2					DSI























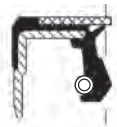

















TYPE 0 OUTWARD DESIGN			TYPE 3-4 RECIPROCATION			TYPE 5 FLANGED		TYPE 6	
									
OSC	OSB	OSA	TC3	TC4	DC4	SC5	SB5	SBP	SAP
									
OTC	OTB	OTA	TB3	TB4	DC4Y	TC5	TB5	TBP	TAP
									
OVC	OVB	OVA	TA3	TCY	TC2Y	VC5	VB5	VBP	VAP
									
OKC	OKB	OKA	KC3	TC4Y		KC5	KB5	KBP	KAP
									
OEC	OEB	OEA	KB3			DC5	DB5		

THE RANGE



TYPE 9	TYPE E	TYPE K	TYPE L3	TYPE VBU	END COVER	TYPE CY	POWER STEERING SEAL		
--------	--------	--------	---------	----------	-----------	---------	---------------------	--	--

									
TB9Y	SCE	SCK	EC	VBU	CAP	CY1 (DC5Y)	SCJ	SCJ5	SC5J
									
TB9ZY	TCE	SB04K	EB	VBU1	CAP04	CY2 (DC5Y)	SCJ1	SCJ6	SC5J1
									
TC9Y	SBE	TB04K	EA	VBUY			SCJ2	SBYJ	VCVJ
									
TC9Y1	TBE	SG04K					SCJ3	UPVJ	TCAVJ
									
		TG04K					SCJ4	UPJ	TCAVJ

THE RANGE



## PRESSURE SEAL

## V-RING

## BONDED SEALS

## AXILE SEAL (CH)



TCV



SCV



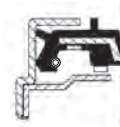
TBP2



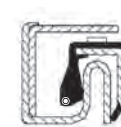
VR1



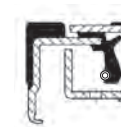
WS



CH1



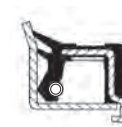
CH6



CH11



CH16



CH21



TCVY



SCP2



TAP2



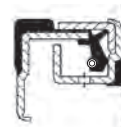
VR2



WS1



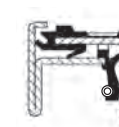
CH2



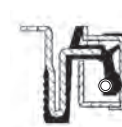
CH7



CH12



CH17



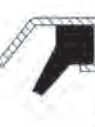
CH22



TCP2



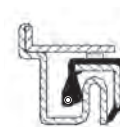
SCHP



RB



WSY



CH3



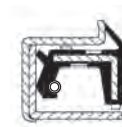
CH8



CH13



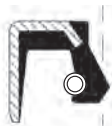
CH18



CH23



TCHP



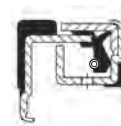
SBP2



9RB



CH4



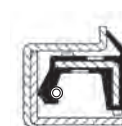
CH9



CH14



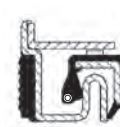
CH19



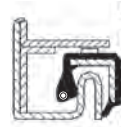
CH24



TCN



CH5



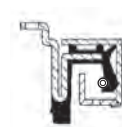
CH10



CH15



CH20



CH25

THE RANGE

# SEALING DIVISION

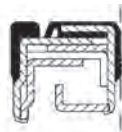
## SPECIAL DESIGN (CS)

## VALVE SEAL

## PTF ESEALING RINGS

WITH LIP

THE RANGE



CH26



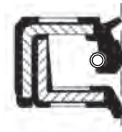
CS1



CS6



CS11



CS16 TCAY



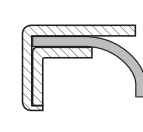
VS1



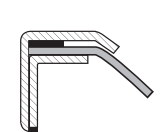
VS6



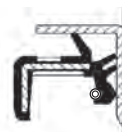
VS11



KAJ



KAJ6



CH27



CS2 (PU) TCAY



CS7



CS12



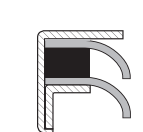
VS2



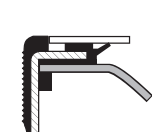
VS7



VS12



KAJ2



KGK



CH28



CS3 (PU) TCAY



CS8



CS13 TCAY



VS3



VS8



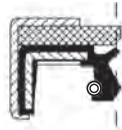
VS13



KAJ3



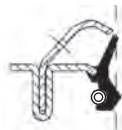
CH29



CS4 (FELT) TCAY



CS9



CS14



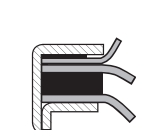
VS4



VS9



VS14



KAJ4



CS5



CS10



DBZ



VS5



VS10



VS15



KAJ5





This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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Email: [info@vipaspa.it](mailto:info@vipaspa.it) [vipaspa.it](http://vipaspa.it)

