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Fastening technology / Electrical Products /  
Standard machine elements



Socket products



Hex cap screws, flange bolts



Nuts, inserts



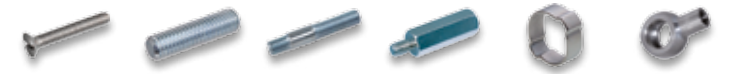
Bolts, plugs



Slotted screws, cross recessed screws, assembled screws



Machine screws mach., thread. rods, slotted set screws, hose clamps



Washers, securing elements



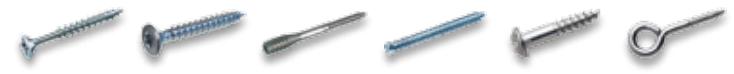
Pins, rivets, keys



Self-tapping screws, self-drilling screws, thread forming screws



Wood screws



Fasteners in stainless steel



Fasteners in various materials



Coatings



Technical information

# 1

## Socket products

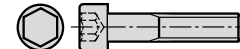


Hex socket head cap screws

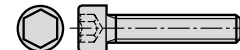
fully threaded - 8.8



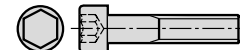
partially threaded - 8.8



fully threaded - 12.9



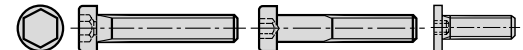
partially threaded - 12.9



fully / partially threaded UNC/UNF

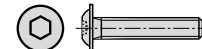


with low head - 08.8/~010.9

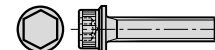


Flanged socket head cap screws

Button head socket cap screws with flange ~010.9



Hex socket head cap screws with flange - 12.9

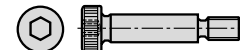


Hex socket head cap locking screws 100

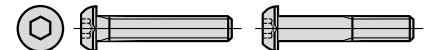


Other hex socket screws

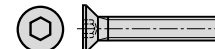
Hex socket head shoulder screws - 012.9



Hex socket button head cap screws - 010.9



Hex socket flat countersunk head screws - 08.8/010.9

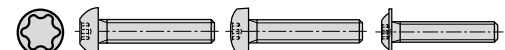


Other hexalobular (6 Lobe) socket screws

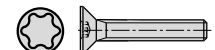
Socket flat head screws - 08.8/~08.8



Socket button head screws - 4.8/08.8

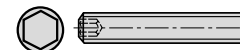


Socket flat countersunk head screws - 08.8

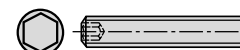


Hex socket set screws

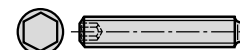
with flat point



with cone point



with dog point



with cup point



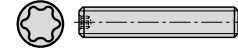
# 1

## Socket products



Hexalobular (6 Lobe)  
socket set screws

with flat point

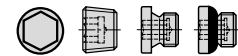


with cup point

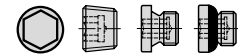


Hex socket pipe plugs

metric fine thread



Pipe thread



Hex keys / drive bits

Hex keys



Drive bits



Magnetic drive bits



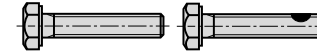
# 2

## Hex head screws, flange bolts



Hex head screws and bolts

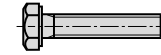
fully threaded - 8.8



partially threaded - 8.8



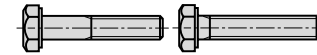
fully threaded - 10.9



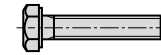
partially threaded - 10.9



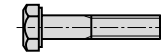
partially / fully threaded UNC / UNF - 8.8



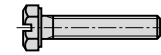
fully threaded MF - 8.8



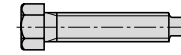
partially threaded MF - 8.8



with slot - 8.8

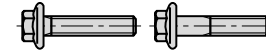


with dog point - 8.8

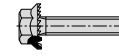


Hex flange and locking screws

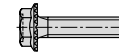
with flange - 8.8



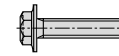
with teeth - 8.8 / 90



with locking flange - 100

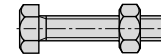


with flange - 4.8

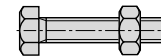


Hex bolts with hex nuts

partially / fully threaded - 4.6 / 6.8

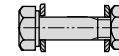


partially / fully threaded - 8.8



Sets of heavy hex structural bolts, nuts and washers

Bolts, Nuts, Washers



# 2

## Hex head screws, flange bolts

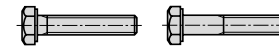
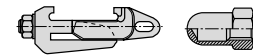


Fasteners for pressure vessels, chemical machineries and oil pipelines

Segment clamping bolts

Stud bolts with reduced shank

Hexagon head screws fully / partially threaded - 5.6



Hex head pipe plugs, Sealing rings










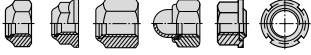




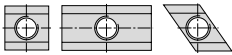
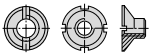


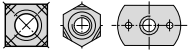

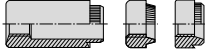
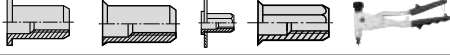

with hexagon

Sealing rings



# 3

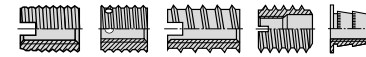
## Nuts, inserts

	Hexagon nuts	~0,5 d	
		~0,8 d / type 1	
		UNC / UNF / Ww	
		~1 d	
		~3 d	
	Coupling nuts	Round coupling nuts	
	Prevailing torque and lock nuts	with polyamide insert	
		All-metal nuts Hexagon slotted and castle nuts	
		Hexagon flange nuts Hexagon nuts	
	Different type of nuts	Square nuts	
		Nuts for T-slots	
		Slotted round nuts Slotted flat countersunk nuts	
		Hexagon cap nuts	
		Wing nuts	
		Weld nuts	
		Self clinching nuts	
		Round rivet nuts, spacers	
		Blind rivet nuts	
		Tee nuts Cage nuts Sheet nuts	

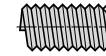


Threaded inserts

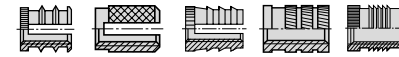
self cutting



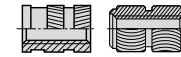
from wire



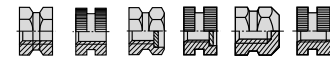
for press-in



for ultrasonic or thermal assembly




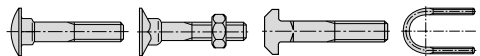
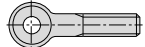
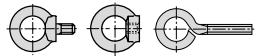
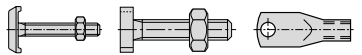
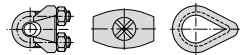

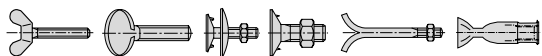







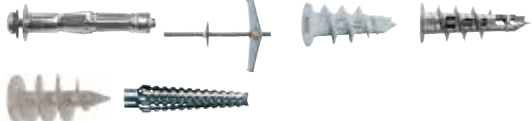
for push-in





# 4

## Bolts, plugs

	Bolts	Bolts	
		Eye bolts	
		Eye and nut bolts	
		Suspension bolts	
		Thimbles and clips	
		Buckles	
		Different type of screws	
	Metal anchors	Throughbolt, Drop in anchor, Ceiling anchor, Brass anchor	
	Chemical fixings	Mortar, Threaded rod anchors, Tools, Resin capsule	
	Nylon plugs	Nylon plugs, Hammer screw, Frame plugs, Scaffold plugs	
	Special fixings	Cavity wall anchors, Plugs for plasterboard and gypsum fibre board, Insulation fixing, Sanitary plugs	


# 5

## Slotted screws, cross recessed screws, assembled screws

	Slotted machine screws	Slotted cheese head screws	
		Slotted truss head screws	
		Slotted pan head screws	
		Slotted flat countersunk head screws	
		Slotted oval countersunk head screws	
	Cross recessed machine screws	Cross recessed cheese head screws	
		Slotted truss head screws	
		Cross recessed pan head screws	
		Cross recessed flat countersunk head screws	
		Cross recessed oval countersunk head screws	
	Screws and washer assemblies	Slotted cheese head assembled screws	
		Cross recessed pan head assembled screws	
	Captive studs	Self clinching captive studs	
	Weld studs	Weld studs	


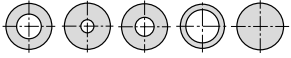



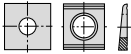
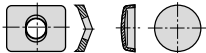

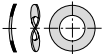

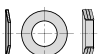




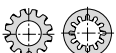



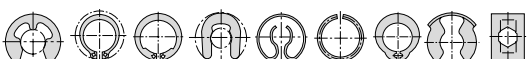


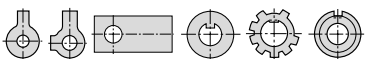
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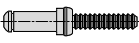

## Machine screws machined, threaded rods, slotted set screws, hose clamps

	Machine screws machined	Slotted cheese head screws	
		Slotted flat countersunk head screws	
		Slotted pan head screws	
		Slotted capstan screws	
	Threaded rods	1m / 2m / 3m – 4.6 / 4.8	
		1m – 4.6 metric fine-, metric left-hand thread, UNC	
		1m – 8.8	
		Spindles	
	Threaded pins	chamfered on both sides	
		with chamfered end	
	Slotted set screws	with flat point, chamfered	
		with cone point	
		with cup point	
	Stud bolts	tap end without interference fit	
		tap end with interference fit	
	Stand offs	with internal and external thread	
		with internal thread on both sides	
	Hose clamps	for low pressure	
		for medium pressure	
		for high pressure	
	Fittings	Banjo fittings, Ring hose nipples, Hollow screws	

# 7

## Washers, securing elements

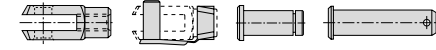
	Washers	without chamfer	
		with chamfer	
	Various washers	for countersunk head screws	
		Square washers	
		Connecting washers Sealing washers	
	Spring washers	Spring washers	
		Conical spring washers	
		Disc springs Disc spring assemblies	
	Spring lock washers	Spring lock washers	
	Lock washers	Serrated lock washers	
		Toothed lock washers	
		Ribbed lock washers	
		Wedge lock washers NORD-LOCK®	
	Retaining rings for shafts and bores	Shaft locking	
		Bore locking	
	Tab washers	Tab washers	

	Parallel pins	unhardened	
		hardened	
	Taper pins	unhardened	
		hardened	
	Slotted spring pins	Spiral spring pins	
		Slotted spring pins	
		Heavy-duty spring pins	
	Grooved pins	Grooved pins	
		Grooved pins	
	Keys	Keys	
	Rivets	Rivets	
		Blind rivets POP®	
		Sealing blind rivets POP®	
		Blind rivets HUCK® Magna-Lok®	
		Blind rivets HUCK® Magna-Bulb®	
		Blind rivet bolts HUCK® BOM®	
		Lockbolts HUCK® Magna-Grip® / Hucktainer® / HUCK® C50L®	
		Tools	
	Split pins	Split pins	
	Adjusting rings	Adjusting rings	



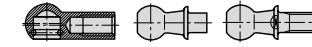
Fork heads

Fork heads



Angle joints

Angle joints



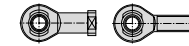
Various fasteners

Different fasteners



Articulated joints

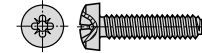
Articulated joints



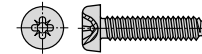


### Thread forming screws

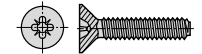
Cross recessed pan head screws  
type C



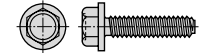
Cross recessed cheese head screws



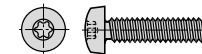
Cross recessed flat countersunk head  
screws  
type M



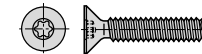
Hexagon head screws  
~type D



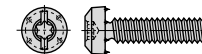
Hexalobular pan head screws  
~type C



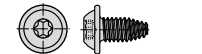
Hexalobular socket flat countersunk head  
screws  
~type M



Hexalobular socket pan head screws

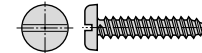


Self-tapping round washer head screws

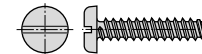


### Self-tapping screws

Slotted pan head tapping screws  
type C



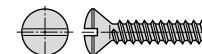
Slotted pan head tapping screws  
type F



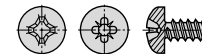
Slotted flat countersunk head tapping  
screws  
type C



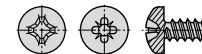
Slotted oval countersunk head tapping  
screws  
type C



Cross recessed pan head tapping screws  
type C



Cross recessed pan head tapping screws  
type F



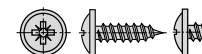
Cross recessed flat countersunk head tap-  
ping screws  
type C



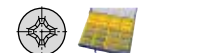
Cross recessed oval countersunk head  
tapping screws  
type C


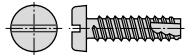
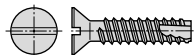
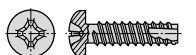
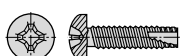

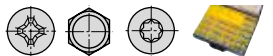



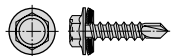


Cross recessed pan head tapping screws  
with collar



Assortment of tapping screws in Box



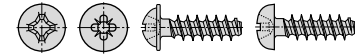
	Self-tapping screws	Hexagon head tapping screws type C	
		Hexalobular socket pan head tapping screws type C	
		Hexalobular socket flat countersunk head tapping screws type C	
	Thread cutting screws	Slotted pan head thread cutting screws type 1	
		Slotted flat countersunk head thread cutting screws type 1	
		Cross recessed pan head thread cutting screws type 1	
		Slotted cheese head thread cutting screws type 2	
		Cross recessed pan head thread cutting screws type 2	
		Thread cutting screws	
	Self-drilling screws	Cross recessed pan head self-drilling screws	
		Flat countersunk head self-drilling screws	
		Hexagon head self-drilling screws	
		Assortment of self-drilling screws in Box	
		Flat countersunk head self-drilling screws with ribs	
	Building screws	Building screws with cone end	
		Building screws with flat end	
		Building screws self drilling type	



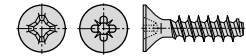


Screws for thermoplastics

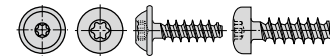
Pan head screws PT®



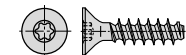
Flat countersunk head screws PT®



Pan head screws PT® Torx plus®



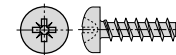
Flat countersunk head screws PT® Torx plus®



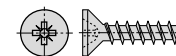
Round washer head screws DELTA PT®



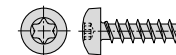
Cross recessed pan head screws ecosyn®-plast



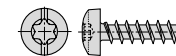
Flat countersunk head screws ecosyn®-plast



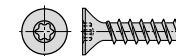
Pan head screws ecosyn®-plast


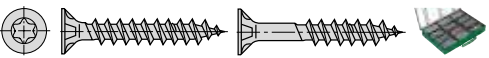
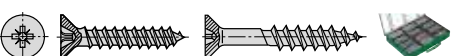




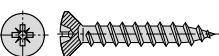



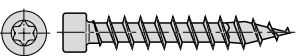
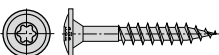


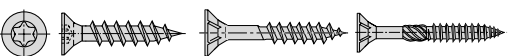




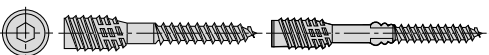






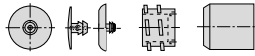














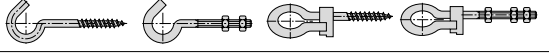





Pan head screws «Freedriv» ecosyn®-plast







Flat countersunk head screws ecosyn®-plast



	SPAX® Chipboard screws	Flat countersunk head hexalobular socket	
		Flat countersunk head Pozidriv cross recessed	
		Pan-Head hexalobular socket	
		Pan-Head Pozidriv cross recessed	
		Flange head chipboard screws	
		Oval countersunk head hexalobular socket	
		Oval countersunk head Pozidriv cross recessed	
	Accessories		
	SPAX® Timber constructions	Flat countersunk head hexalobular socket	
		Hexalobular socket cylindric head cap screws	
		Flange head hexalobular socket	
		Threaded rods	
	Chipboard screws	Flat countersunk head hexalobular socket	
		Flat countersunk head Pozidriv cross recessed	
		Pan Head	
		Raised countersunk head	
	Toproc®-Screws	Spacing screws	
		Hexagon socket universal Topspan	

	Toproc®-Screws	Hexagon socket adjusting screws	
		Hexagon socket roofs screws	
		Accessories	
		Tools	
	Spacing and adjusting screws	Spacing screws	
		Hexagon socket adjusting screws	
	Window screws and frame screws	Window screws	
		Frame anchors	
		Hexalobular frame screws	
	Wood screws	slotted	
		cross recessed	
		hexagon	
	Various wood screws	Hook wood screws	
		Hook screws for swing	
		Square hook wood screws	
		Clothline hook screws	
		Safety hook screws	
		Screws for wood flooring	
Furniture screws			
Cross recessed pan head screws for electrician			
Hexalobular socket flat countersunk head self-drilling screws			
	Dry wall screws	Dry wall screws	

	Screws	hex drive	
		Torx drive	
		hexalobular (6 lobe) drive	
		slotted	
		cross recessed	
		Various	
	Socket set screws, Threaded rods	Set screws	
		Threaded rods	
		Various	
	Nuts	Nuts	
		Self locking hex nuts	
		Different type of nuts	
		Insert nuts	
		Threaded inserts Riveting nuts	
			Anchors, plugs
Chemical products			
Nylon plugs			
	Hose clamps	Hose clamps	

# 11

## Fasteners in stainless steel

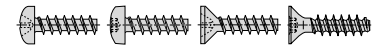
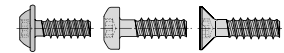
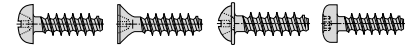
	Washers	Washers	
		Spring lock washers	
		Disc springs Disc spring assemblies	
		Tab washers	
	Dowel pins, Spiral pins	Dowel pins Taper pins	
		Slotted spring pins	
		Various	
	Rivets	Blind rivets	
		Rivets	
	Self tapping screws	hex drive	
		Torx drive	
		hex drive	
		slotted	
		cross recessed	
	Self drilling screws	Self drilling screws ecosyn®-MRX	
		Self drilling screws	
	Thread forming screws	Thread forming screws	



Screws for thermoplastics PT® screws

DELTA PT® screws

ecosyn®-plast screws



Chipboard screws, wood screws

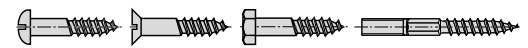
SPAX® Chipboard screws


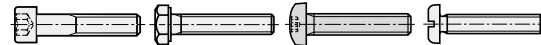
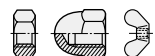
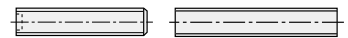

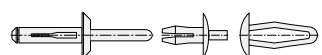



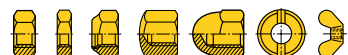




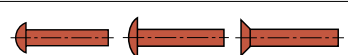

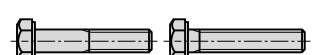




SPAX® Timber constructions

SPAX® Decking and facade screws

Chipboard screws
















Wood screws



	Plastic	Screws	
		Nuts	
		Set screws, Threaded rods	
		Washers	
		Rivets	
		Various	
		Cable ties	
		Brass	Screws
		Nuts	
		Set screws, Threaded rods	
		Washers	
		Various	
		Copper, Bronze	Washers
		Rivets	
	Aluminum	Screws	
		Nuts	
		Threaded rods	
		Washers	
		Rivets	

# C

## Coatings

	Thread locking jamming	TufLok® Patch Nytemp® Patch			
	Thread locking adhesive	Precote® 30 / 80 / 85	Precote® 30 / 80 / 85	Precote® 30/80/85	
		Scotch-Grip™ 2353	Scotch-Grip™ 2353	Scotch-Grip™ 2353	
	Thread sealing	TufLok® all-round Nytemp® all-round			
		Precote® 5	Precote® 5	Precote® 5	
	Under head sealing	Nyseal®	Nyseal®	Nyseal®	
		Nyplas®	Nyplas®	Nyplas®	
	Retaining ring	Nystay®	Nystay®	Nystay®	
	Tribological coatings	Bossard ecosyn®-lubric Black/Silver	Bossard ecosyn®-lubric Black/Silver	Bossard ecosyn®-lubric Black/Silver	
	General remarks	Indication			





Providing maximum security for bolted joints  
 Proporciona máxima seguridad en uniones atornilladas  
 提供螺栓连接最大的安全性

**Nord-Lock Group**  
 info@nord-lock.com • www.nord-lock.com

**NORD-LOCK®**  
 Bolt securing systems



The most reliable solution to secure critical applications



La solución más fiable para asegurar aplicaciones críticas



针对严苛应用的最可靠的解决方案



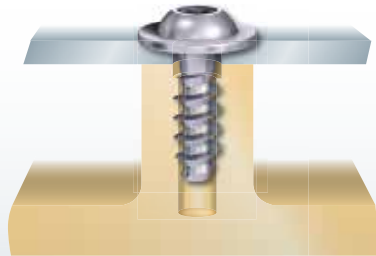
**NORD-LOCK®**  
 Bolt securing systems

# DELTA PT®

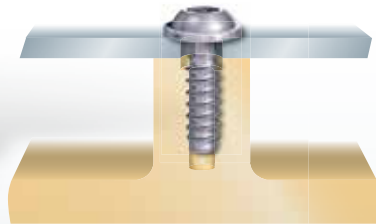
Smaller. Lighter. Cost reducing.  
For Direct Assembly into Plastics.



PT® K 50

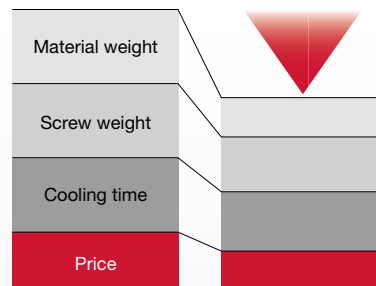


DELTA PT® 40



Smaller installation space but constant clamp load.

20-30 % savings potential



## DELTA CALC

A higher degree of efficiency through design optimisation with the DELTA CALC prognosis programme.

DELTA PT® – intelligent variety! Possible head styles



**BOSSARD**

Proven Productivity



Bossard ecosyn®

The tradition of innovation.

Bossard ecosyn®

La tradición de la innovación.

Bossard ecosyn®

创新传统.

Notes en use, Index

Cable glands



Contact parts



Cable ties



Mountings for cables and pipes



Industrial enclosures



Cable protection



Shrinking technology


























Cable identifications


























Technical information



# E-1 Cable glands

	with metric thread	Brass				
		Stainless steel				
		Zinc die-casting				
		Plastic				
		Accessories and single parts				
	without thread	Plastic				
	with Pg-, NPT- and pipe thread	Brass				
		Zinc die-casting				
		Plastic				
		Accessories and single parts				
	for hazardous areas	Brass				
		Plastic				
	Cable Entry System	Cable Entry System				
	Sealing grommets	G501 KLIKSEAL	G501 KLIKSEAL	G501 KLIKSEAL		
		G500 - G504	G500 - G504	G500 - G504		
	Tools	Tools				

# E-2 Contact parts

	Compression cable lugs	Compression cable lugs in copper	
		Compression cable lugs in aluminium	
		Bimetallic compression cable lugs	
		Compression pin-type terminals	
	Compression joints	Non-tension compression joints in copper	
		Non-tension compression joints in aluminium	
		Bimetallic non-tension compression joints in aluminium / copper	
		Full-tension compression joints	
		Reduction sleeves	
	Parallel groove clamps	Parallel groove clamps	
		C-clamps	
	Non insulated solderless terminals	Ring type	
		Fork type	
		Pin terminals	
	Insulated solderless terminals	Ring type	
		Fork type	
		Pin terminals	
		Assortment	

# E-2 Contact parts



Butt connectors and parallel compression joints

Butt connectors

Parallel compression joints



Insulated pin connectors and receptacles

Pin connectors

Pin receptacles



Non insulated female receptacles

Female receptacles



Insulated female receptacles and male tabs

Female receptacles

Male tabs



Insulated end connectors

End connectors















Non insulated end sleeves

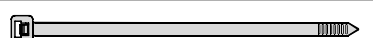

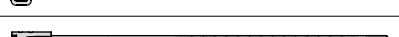




End sleeves



# E-2 Contact parts

	Insulated end sleeves	End sleeves	         
		End sleeves for wires with thick insulation	
		End sleeves for short-circuit proof of leads	
		Twin end sleeves	
		Tape mounted end sleeves	
		Assortment	
	Terminal blocks	Terminal blocks	
	Tools	Tools and spare parts	    









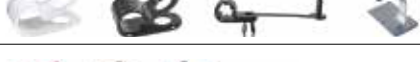





# E-3 Cable ties














	Panduit®	Sta-Strap®	Sta-Strap®	Sta-Strap®	
		Pan-Ty®	Pan-Ty®	Pan-Ty®	
		wing push mount Pan-Ty®			
		stud mounted Pan-Ty®			
		Double loop Pan-Ty®			
		with tongue Dome-Top® Barb Ty			
		strip hook and loop Tak-Ty®			
		Ball-locking Pan-Steel®			
	ABB®	Standard Ty-Fast®			
		releasable Ty-Fast®			
		Twist-Tail®	Twist-Tail®	Twist-Tail®	
		with tongue Ty-Rap®			
		for panel mounting Ty-Rap®			
		with integrated mounting hole Ty-Rap®			
		ladder type Ty-Met™			
	Elematic®	Standard			
		detectable			
	«no-name»	various versions			  
	Tools	Tools			    



# E-4









## Mountings for cables and pipes

	Panduit®	Cable tie mounts	
		Adhesive backed mounts	
		Clamps / Clips	
		Flat cable mounts	
		Epoxy applied mounts	
		Tie plates	
		Hook and loop cable tie mounts	
		Fixed cable clamp	
		Different mounts	
	Elematic®	Cable tie mounts	
	«no-name»	Different mounts	





	Enclosures in plastic	TG series	
		TK series	
		AKL/Aki series	
	Enclosures in aluminium	AL series	
	Mountings rail DIN	unperforated	
		perforated	
	Hex stand-offs	with internal and external thread	
	Threaded plates	Threaded plates Socket head screws	

	Tubings REIKU	Tubings	
		Two-parts divisible tubings	
		System Support	
	Connectors REIKU	Straight connectors with male thread	
		90° Elbows	
		45° Elbows	
		Straight connectors with female thread	
		Elbow flanges, push-in tube connectors	
		Connectors for tubes, 42 to 90	
	Accessories REIKU	Buckling resistant, seals	
	Tubings	Braided sleeves Panduit®	
		Braided sleeves Elematic®	
		Split harness wrap Panduit®	
		Spiral wraps	
		Edge protection	
		Plugs / Bushings	
	Wiring ducts	Wiring ducts	

# E-7 Shrinking technology

 Heat shrink tubing	Assortment, multi-colors Panduit® Dry-Shrink™	
	Assortment, black Panduit® Dry-Shrink™	
	thin wall, BST21	
	thin wall, BST31	
	adhesive lined, BSA31	
	adhesive lined, BSA41	
	heavy wall Panduit® Wet-Shrink™	

# E-8 Cable identifications

 Identification systems	Labels	
	Printers and accessories Markers	
	Permanent markings Safety markings	



Operating elements



Clamping knobs



Clamping levers



Handles



Control elements



Levelling elements



Indexing and positioning elements



# 0-1 Operating elements



Operating elements

Spoked handwheels



Solid handwheels



Crank handles



# 0-2 Clamping knobs



Clamping knobs

Three-arm knobs



Lobe knobs  
Star knobs  
Lock knobs



Wing knobs



Grip knobs



Fluted grip knobs



# 0-3 Clamping levers



Clamping levers

Lever handles

Adjustable handles



# 0-4 Handles



Handles

Bridge handles

Tubular handles

Pull handles

Fixed and revolving handles

Fold-away handles



# 0-5 Control elements



Control elements

Control knobs



# 0-6 Levelling elements



Levelling elements

Bases and stems



# 0-7 Indexing and positioning elements



Indexing and positioning elements

Spring plungers

Indexing plungers

Latch-type knobs with lock

