





AGRICULTURAL INDUSTRY





1
HEXAGON HEAD
BOLT HALF THREAD



2
MUSHROOM HEAD
SQUARE NECK BOLT



3
HEXAGON HEAD
FLANGE BOLT



4
SCREW PLUG



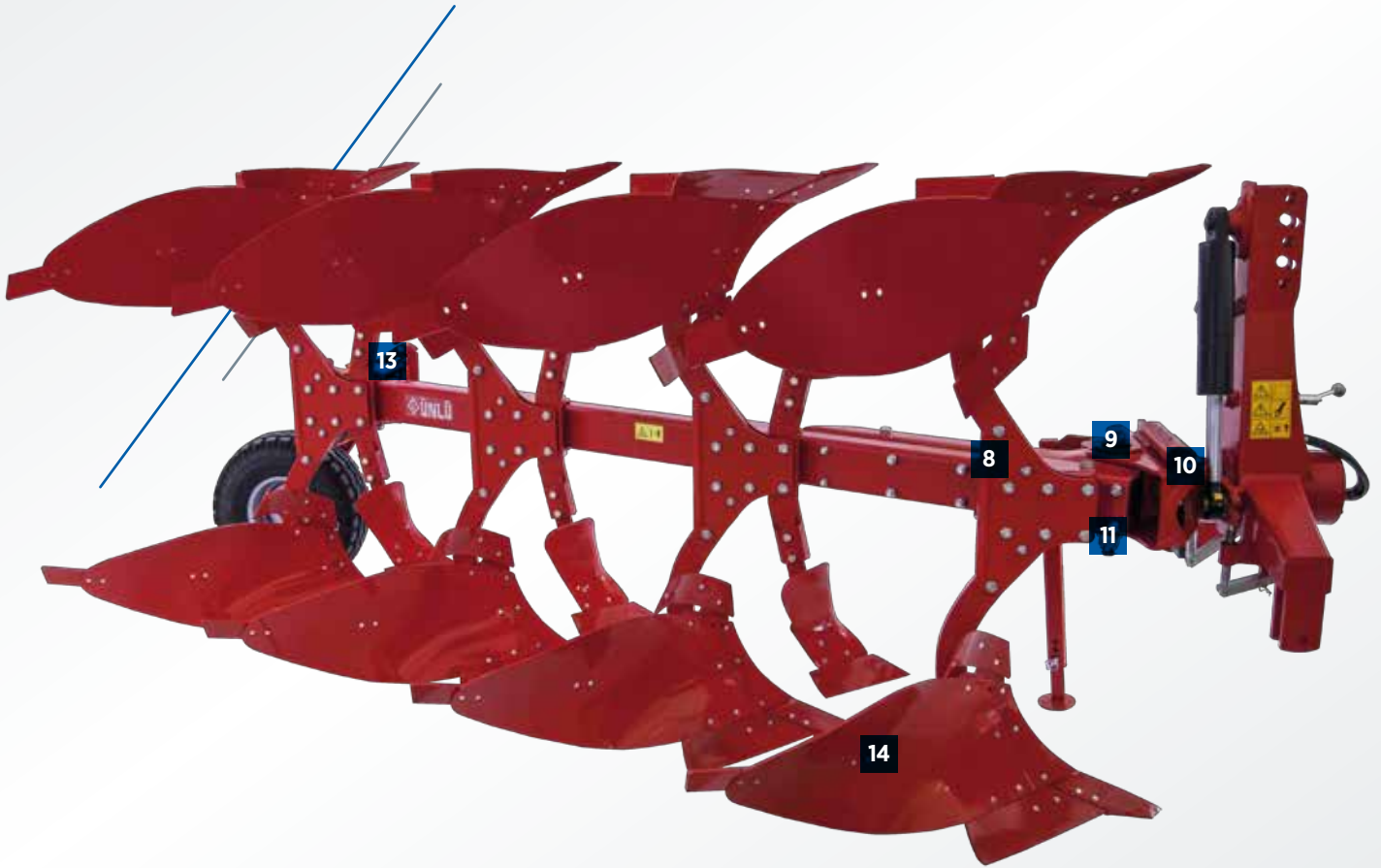
5
U BOLTS



6
FLAT WASHER



7
HEXAGON NUT



8
PREVAILING TORQUE
TYPE HEXAGON NUT,
ALL METAL



9
CASTLE NUTS



10
SPECIAL ITEMS



11
SPECIAL ITEMS



12
SPECIAL ITEMS



13
SPECIAL ITEMS



14
SPECIAL ITEMS

SOLAR





SOLAR

We manufacture a complete range of unique headed and threaded fasteners in a wide variety of sizes and lengths for a multitude of SOLAR ENERGY applications. Our commitment to the SOLAR Industry is ongoing through strategic partnerships with world-class manufacturers. We continue to provide our customers with superior technical support and other application engineering services and ensure the availability of ideal fastener concepts.

STD has a large range of articles with surface coating e.g geomet321,500a/b,deltaprotech,-zintech,zincnikel. Also tuflok90-180, precote 3m, tuflok360. and omnimask.

View our STD Products for fastening solutions in SOLAR industry



HEXAGON HEAD FLANGE BOLT INOX



HEXAGON FLANGE NUT INOX



HEXAGON NUTS INOX



FLAT WASHERS INOX



SPRINC LOCK WASHERS INOX



SPRING LOCK WASHER

COATING TYPES' CHARACTERISTICS TABLE

PLATING DESCRIPTION	COATING THICKNESS	COATING WEIGHT	SALT SPRAY RESISTANCE		FRICTION COEFFICIENT	DESCRIPTION OF
			WHITE CORROSION	RED CORROSION		
GEO.321A	6-8 µm	≥24 gr/m ²	>240 h	≥720 h	0,06-0,20	%100 free from Chrome and heavy metal. Silver gray colored coating
GEO.321B	8-10 µm	≥36 gr/m ²		≥1000 h		
GEO.500A	6-8 µm	≥24 gr/m ²	>240 h	≥720 h	0,12-0,18	%100 free from Chrome and heavy metal. Low friction coefficient, gray coating
GEO.500B	8-10 µm	≥36 gr/m ²		≥1000 h		
GEO.321A/GEO.500A+PLUS® L	-	≥26 gr/m ²	-	≥720 h	0,08-0,14	Over Geomet colorless,protective coating
GEO.321B/GEO.500B+PLUS® L	-	≥38 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+PLUS® VL	-	≥26 gr/m ²	-	≥720 h	0,09-0,14	Over Geomet colorless,protective coating
GEO.321B/GEO.500B+PLUS® VL	-	≥38 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+PLUS® VLh	-	≥29 gr/m ²	-	≥720 h	0,09-0,14	Over Geomet colorless,protective coating
GEO.321B/GEO.500B+PLUS® VLh	-	≥41 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+PLUS® M	-	≥26 gr/m ²	-	≥720 h	0,12-0,18	Over Geomet colorless,protective coating
GEO.321B/GEO.500B+PLUS® M	-	≥38 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+PLUS® ML	-	≥26 gr/m ²	-	≥720 h	0,10-0,16	Over Geomet colorless,protective coating
GEO.321B/GEO.500B+PLUS® ML	-	≥38 gr/m ²	-	≥1000 h		

COATING TYPES' CHARACTERISTICS TABLE

PLATING DESCRIPTION	COATING THICKNESS	COATING WEIGHT	SALT SPRAY RESISTANCE		FRICTION COEFFICIENT	DESCRIPTION OF
			WHITE CORROSION	RED CORROSION		
GEO.321A/GEO.500A+PLUS® XL	-	≥26 gr/m ²	-	≥720 h	0,06-0,09	Over Geomet colorless,protective coating
GEO.321B/GEO.500B+PLUS® XL	-	≥38 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+PLUS® 10	-	≥26 gr/m ²	-	≥720 h	> 0,18	Over Geomet colorless, protective coating (Physical strength increases.not lubricated)
GEO.321B/GEO.500B+PLUS® 10	-	≥38 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+PLUS® ML BLACK	-	≥32 gr/m ²	-	≥1000 h	0,10-0,16	black, protective top coat
GEO.321B/GEO.500B+PLUS® ML BLACK	-	≥44 gr/m ²	-	≥1000 h		
GEO.500A+PLUS® Black 500 M (GEOBLACK® 500M)	-	≥32 gr/m ²	-	≥1000 h	0,10-0,16	black, protective top coat
GEO.500B+PLUS® Black 500 M (GEOBLACK® 500M)	-	≥44 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+DACROLUB®10B/G/L	-	≥26 gr/m ²	-	≥720 h	0,08-0,14	Geomet colored coating over (DACROLUB10B:BLUE, DACROLUB 10G:GREEN) DACROLUB 10L colorless coating
GEO.321B/GEO.500B+DACROLUB®10B/G/L	-	≥38 gr/m ²	-	≥1000 h		
GEO.321A/GEO.500A+PLUS® L+DACROLUB® 10B/10G/10L	-	≥28 gr/m ²	-	≥720 h	0,08-0,14	
GEO.321B/GEO.500B+PLUS® L+DACROLUB® 10B/10G/10L	-	≥40 gr/m ²	-	≥1000 h		

COATING TYPES' CHARACTERISTICS TABLE

PLATING DESCRIPTION	APPEARANCE	SALT SPRAY RESISTANCE		FRICTION COEFFICIENT	TEMPERING HYDROJEN EMBRILMENT RELIEFING		
		WHITE CORROSION	RED CORROSION		8.8	10.9	12.9
Delta Protekt KL 100	Silver Grey	-	480 h	0,12-0,30	-	-	-
Delta Protekt KL 100	Silver Grey	-	600 h	0,12-0,30	-	-	-
Delta Protekt KL 100+ VH301 GZ	Silver Grey	-	720 h	0,09-0,14	-	-	-
Delta Protekt KL 100 +VH302 GZ	Silver Grey	-	720 h	0,11-0,17	-	-	-
Delta Protekt KL 100+Delta Seal GZ Black	Black	-	720 h	0,09-0,14	-	-	-

TRAILER PRODUCERS





1
**HEXAGON HEAD BOLT
FULL THREAD**



2
**LARGE SIZE
WASHER**



3
**HEXAGON HEAD
BOLT FINE THREADED
UP TO HEAD**



4
**BUTTON HEAD
SOCKET SCREW**



5
**HEXAGON NYLON
INSERT NUT**

A large, industrial valve wheel with a central threaded stem, set against a dark blue background. The wheel has a circular rim with four spokes and a central hub. The stem is threaded and has a nut on top. The background is a dark blue gradient with some blurred industrial components.

VALVE MANUFACTURERS



1
HEXAGON NUTS
INOX



2
THREADED ROD
INOX



3
HEXAGON SOCKET
HEAD CAP SCREWS
INOX



4
HEXAGON HEAD
BOLT FULL THREAD
INOX



5
HEXAGON SOCKE
SCREW WITH CUP
POINT INOX

AGRICULTURAL STORAGE FASTENERS



METRIC SILO BOLT

FASTENERS FOR THE GRAIN BIN AND STORAGE BUILDING INDUSTRIES

NORM FASTENERS Grain Bin and Storage Building fasteners receive the new NORMTECH extreme life plating as NORM's standard finish.

- Included in this product range are fasteners made to Property Class 8.8 and 10.9
- Various types of nuts are produced from finished hexagon, heavy semi-finished, flange, (both plain and serrated) nuts.
- NORMTECH has been proven to remain completely rust-free in over 800 hours of salt spray testing. That's up to 20 times more corrosion resistance than electro - zinc platings - and considerably better than certain post-plating coatings on the market.
- NORMTECH With the help of special layers applied upon zinc coating; NormTech designed to renew itself to last very longer. Because it is a renewable coating type, early corrosion problems caused by small mechanical damage are prevented. This ensures that the connections can be used for a longer period of time without corrosion.
- **Sealing Washer:** Specially designed by Norm Fasteners, It has a special polypropylene, therewithal unbreakable and resistant to a temperature $-20^{\circ}\text{C} / +120^{\circ}\text{C}$.
- **Standart Zinc:** 80-100 hours to red rust in salt spray, but NORMTECH : For the 21st Century 800 hours to red rust in salt spray.

Friend of Silos



METRIC SILO BOLT

Kitting of sets and assembly kits

- For assembling agricultural storage industries and repair kits for spare parts stores, we have sets and assembly kits to increase efficiency in the agricultural storage sector. STD Kitting & Packaging fulfills every customer-specific requirement.
- With Assembling kits offers a better service to our customers, most importantly we save time for the our customers.



Packaging Types

- **Round Plastic Pails:** Bulk packed, waterproof & resealable
- **Cartoons Box:** Small than box or bluk packed.



MINING INDUSTRY FASTENERS





J BOLT



HEXAGON HEAD
BOLT HALF THREAD



T BOLT



HEXAGON NUT



HEXAGON HEAD
BOLT FULL THREAD

A hand is shown using a screwdriver to adjust a metal track on a wooden cabinet drawer. The track is a complex metal assembly with several rollers and adjustment points. The background is a light-colored wooden cabinet. The image is overlaid with a dark blue diagonal gradient.

FURNITURE

A close-up of a white PVC window handle. The handle is a simple, curved, ergonomic design. It is mounted on a white PVC window frame. The background is a light blue gradient. The image is overlaid with a dark blue diagonal gradient.

PVC-WINDOWS



1
CHIPBOARD
SCREWS



2
PHIL CROSS RECESSE
PAN HEAD SCREW



3
HEXAGON WASHER
HEAD SELF
DRILLING SCREW



4
MODULAR
CONNECTION PARTS



5
HEXAGON NUT



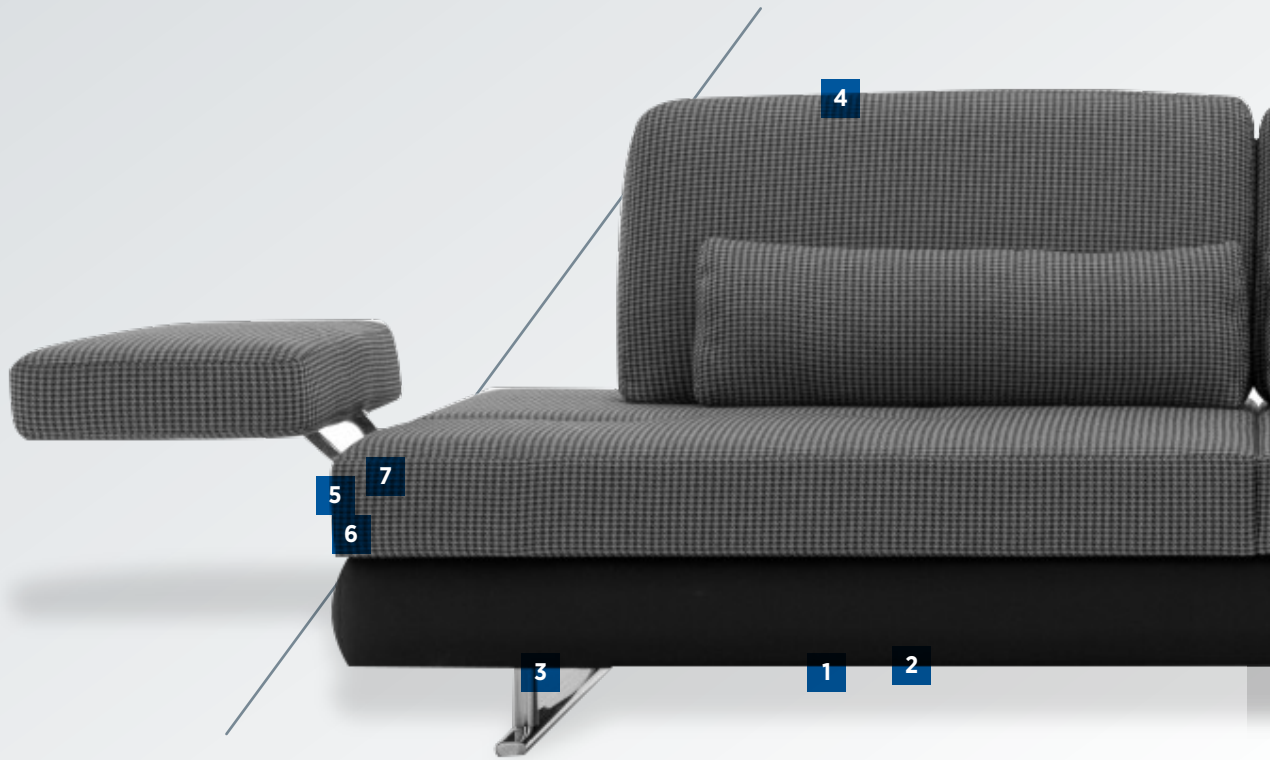
6
CYLINDER THIN
HEAD RIVET NUT



7
CYLINDER FLAT
HEAD RIVET NUT



8
TABLE SLIDES



1
COLLATED SEL
DRILLING DRYWALL
SCREWS



2
CROSS RECESSED
COUNTERSUNK HEAD
SELF DRILLING SCREW



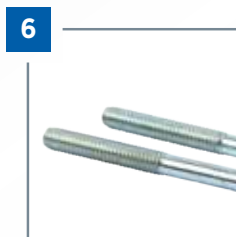
3
CHIPBOARD
SCREWS



4
HEXAGON SOCKET
HEAD CAP SCREW



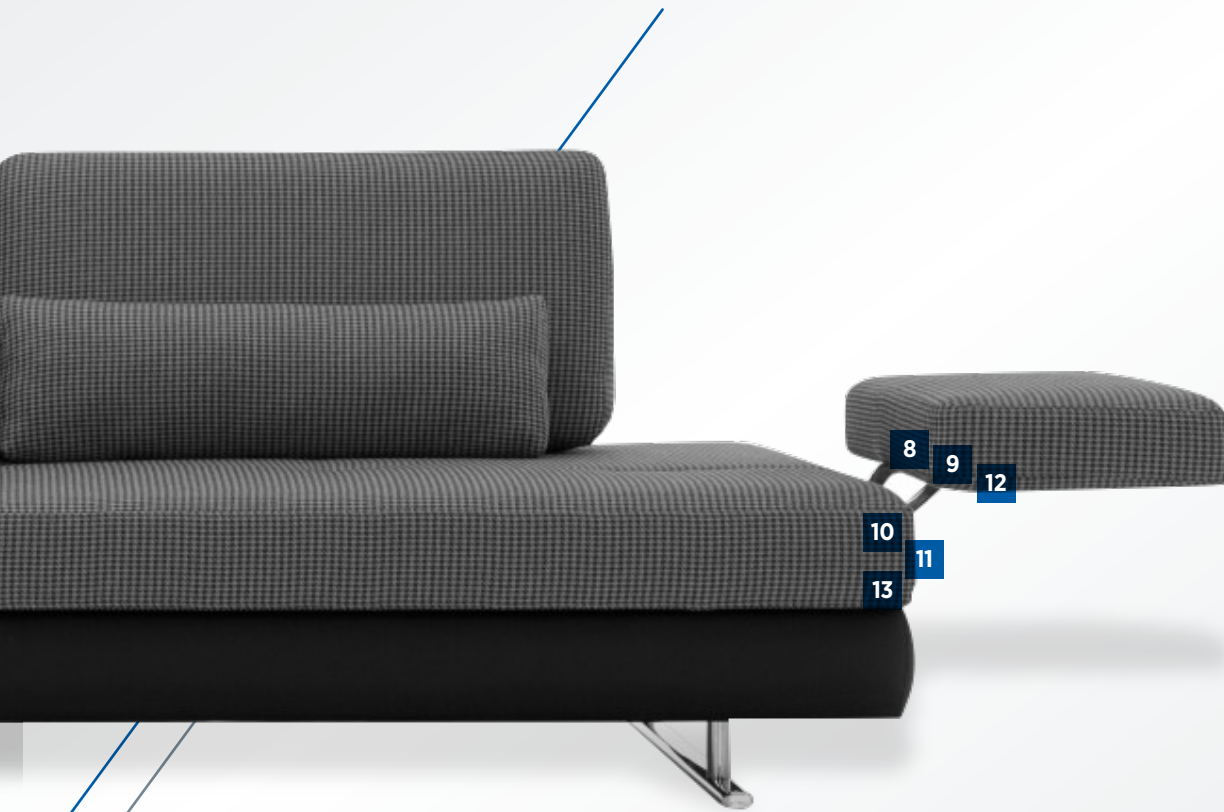
5
MUSHROOM HEAD
SQUARE NECK BOLT



6
STUD BOLTS



7
TEE NUTS



HEXAGON NUT



FLAT WASHER



**WING NUT
PLASTIC COATED**



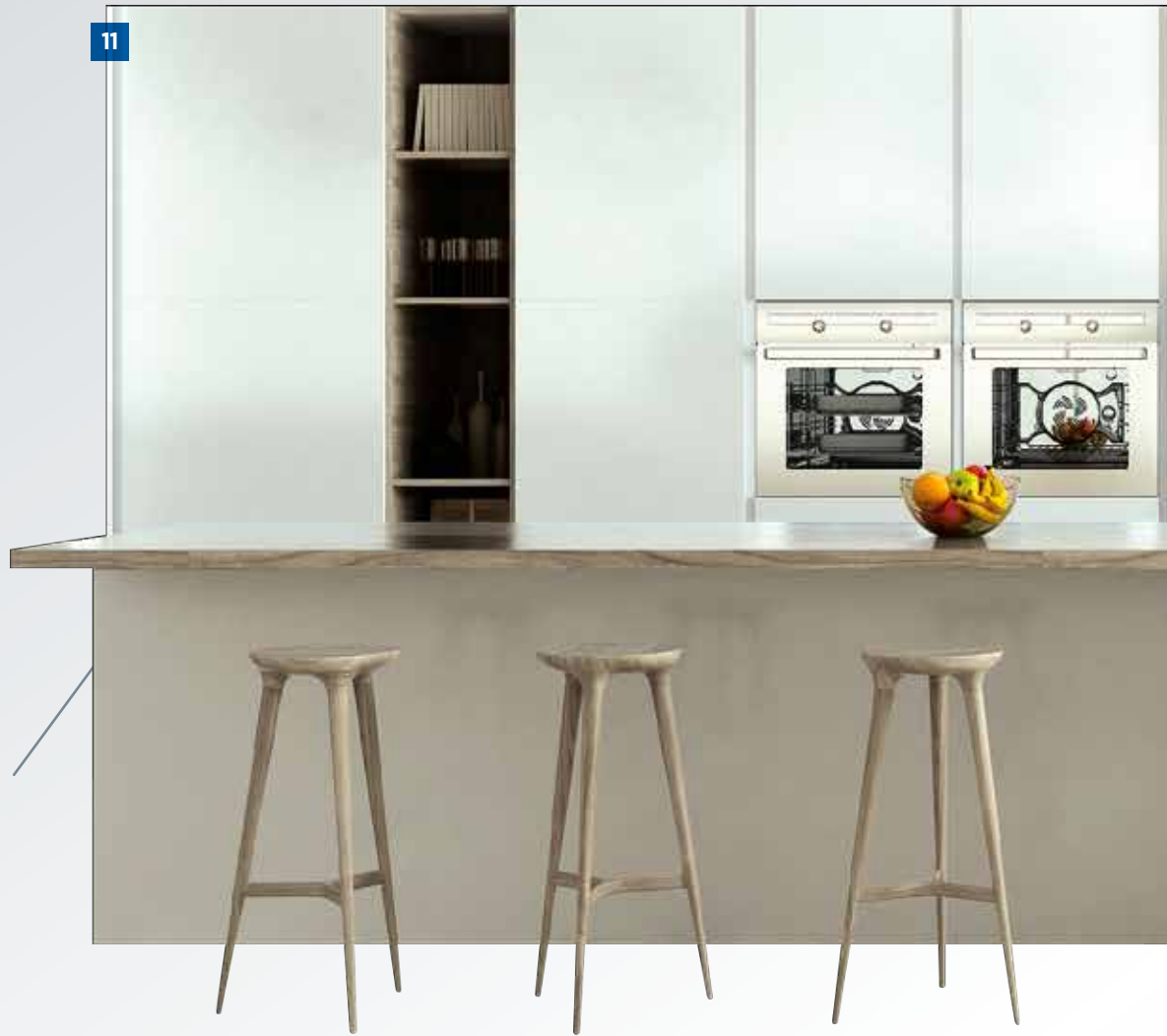
T NUT



**HEXAGON NYLON
INSERT NUT**



**HEXAGON DOMED
CAP NUT**



TELESCOPIC SLIDES



CONCEALED SLIDES



**WALL HANGING
BRACKETS**



**FULLOVERLAY
HINGES**



**HALFOVERLAY
HINGES**



INSET HINGES



GAS SPRING



BREAKING ARM



**CABINET
LIFT UP SYSTEM**



SHELF PIN



**CHIPBOARD
SCREWS**



HANDLE SCREWS



1
CHIPBOARD
SCREWS



2
BACKING SCREW



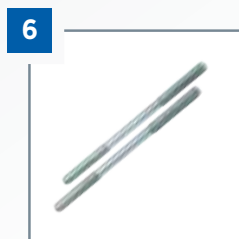
3
CROSS RECESSED
COUNTERSUNK HEAD
SELF DRILLING SCREW



4
HANDLE SCREWS



5
PHIL CROSS RECESSED
PAN HEAD SCREW



6
STUD BOLT



7
HEXAGON NUT



8
MINIFIX



9
BED STEAD
CONNECTION PARTS



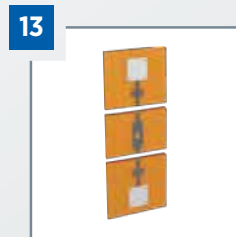
10
CABINET AND
HANGER PARTS



11
LIGHTED CABINET
AND HANGER PARTS



12
ALUMINIUM
HANDLES



13
TURNBUCKLE



14
CIRCULAR PIPE
HANGER



15
TELESCOPIC
SLIDES



16
SLIDING
SHUTTER



17
TROUSERS



18
WARDROBE
LIFT



1
**PKM 80
ADJUSTIBLE SLIDIN
DOOR ROLLER**



2
**TELESCOPIC
SLIDES**



3
**FULLOVERLAY
HINGES**



4
**HALFOVERLAY
HINGES**



5
INSET HINGES



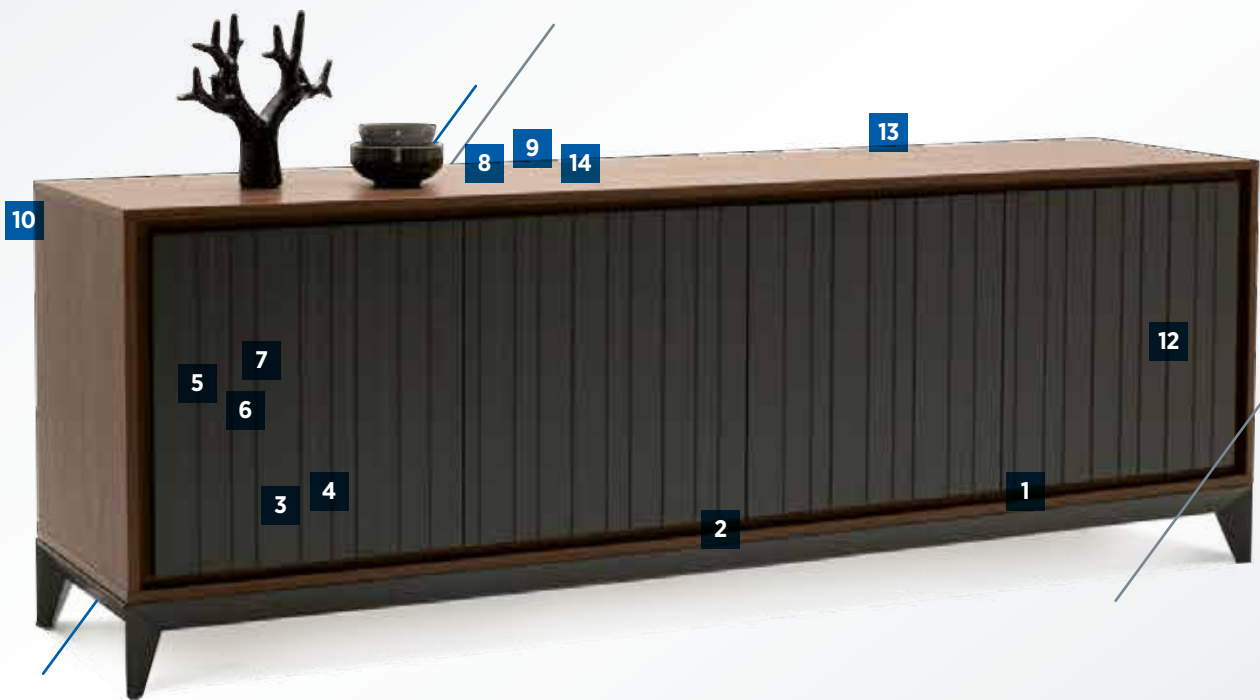
6
HYDROLIC HINGES



7
GAS SPRING



8
BACKING SCREW



9
HIDDEN
SHELF HOLDER



10
PHIL CROSS RECESSED
PAN HEAD SCREW



11
CHIPBOARD
SCREWS



12
SHELF PIN



13
BACKING PINS



14
PLASTIC
WALL PLUG



1
CONCRETE SCREW



2
HI-LOW SCREW



3
CROSS RECESSED
COUNTERSUNK HEAD
SELF DRILLING SCREW



4
ALUMINIUM
WINDOW HANDLE



5
ZAMAK HINGES



6
CROSS RECESSED
PAN HEAD SELF
DRILLING SCREW



7
PLISSE
WIREMESH



1
CONCRETE SCREW



2
HI-LOW SCREW



3
CROSS RECESSED
PAN HEAD SELF
DRILLING SCREW



4
CROSS RECESSED
COUNTERSUNK HEAD
SELF DRILLING SCREW



5
ALUMINIUM
DOOR HANDLE



6
ZAMAK HINGES



7
FIBERGLASS
WIREMESH



8
WEATHER STRIPS





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