

UPVC & ALUMINIUM WINDOW & DOOR ACCESSORIES



About Us

Our company started its activities with a small workshop in 1988. Nowadays, our company exports to 40 countries employing 370 people and manufacturing products in 26.000 square meters modern and high technology contained closed area factory located in Istanbul Hadimkoy.

Company Akpen, which has adopted the principle of Sustainable Quality Approach and Maximum Customer Satisfaction, has continued its investments in the field of automation and production technologies since 2010 and has become a brand frequently mentioned in the sector with its environmentally friendly high-tech production techniques and developed products.

With more than 30 years of manufacturing experience and experienced staff, it has achieved its goals. Akpen continues to lead his new targets without slowing down and is moving forward with sure steps towards becoming a worldwide known brand.



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Product Information

1. Product information and specified application

Hinges as covered by this definition is one hand-operation side hung hardware for windows and balcony doors in building construction. By turning one handle it enables window and balcony door sashes to open into side hung position due to a hinge mechanism.

Side hung hinges hardware is used on vertically installed windows and balcony doors made of timber, pvc, aluminium or steel and their corresponding material combinations. Conventional side hung hinges hardware as covered by this definition, locks window and balcony door sashes and enables various ventilating positions. When closing, the gasket counter force must be overcome as a rule. Differing applications do not correspond to its specified application.

Burglar-resistant windows and balcony doors, windows and balcony doors for damp rooms and those for use in environments with aggressive, corrosive air content, require hardware adapted for the respective application and individually agreed upon performance features.

2. Misuse

- · When obstacles are inserted in the opening vicinity between frame and sash, thus preventing its proper specified use.
- When window and balcony door sashes are pressed adversatively or uncontrolled (for example by the wind) up against the window reveals, so that the hardware, the frame material or other individual window or balcony door sash components are damaged or destroyed and/or if consequential damage can arise.
- When additional loads put on windows or balcony door sashes (for example if children swing on the window or balcony door sash).
- When while closing the window and balcony door sashes, someone reaches into the rebate between the sash and frame (injury hazard).

3. Liability

The respective entire hardware set may only consist of hardware components from AKPEN. In the case of inappropriately assembled hardware, and/or in case of non-original accessory components and/or non factory-approved components, no liability is accepted.

4. Product Information

The main goal of the products which are produced for all sorts of PVC and timber windows, is to offer the customer the required comfort. Therefore in the product range, there are alternatives suitable to the customer's demands and window types.

The security levels of the products, which are produced on the basis of basic security systems, can be easily changed. In some cases the change of the locking plate is sufficient to alter the security level. In other instances, the level of security is increased by changing the products. For security reasons, it is beneficial that the windows and balcony doors are produced according to specifications.

For preventing the sash from closing because of wind power when in tilt position, a snapper is mounted on the products. The wrong operation safety device or the sash positioner, which prevent the sash from being wrongly operated, can also be mounted to the product. Furthermore the resistance capacity is enhanced and the products have been developed so that the mechanisms work smoothly.

All mechanisms used at windows and balcony doors are produced in silver colour. For finishing, the nature-friendly plating technology is used. By this alkali based finishing technique, the corrosion resistance is increased due to powder coating.

5. Product Performance

The AKPEN hardware can be used on all sashes up to 160 kg, as a standard. When sash weight exceeds 100 kg it is advised that AKPEN is consulted and additional hardware is supplied.

6. Maintenance

Security relevant hardware components are to be examined at least once a year for stability and wear and tear. Depending on the requirements, the fixing screws are to be tightened and/or parts to be replaced. In addition to this, the following maintenance work is to be carried out annually:

- All movable parts and locking points of the side hung and tilt-turn hardware have to be controlled and greased.
- Only cleaning and maintenance agents, which do not damage the corrosion protection of the hardware components, are to be used.

The hardware adjustments -particularly in the vicinity of the corner pivot rest and the scissors - as well as replacing parts and the unhinging and hinging of the active sash are to be carried out by a specialist company.



Quality

Surface Protection

AKPEN window and door hinges are painted in a fully automated powder coating facility using painting raw materials specially produced by the world's leading paint manufacturers for both aesthetic appearance and high corrosion resistance of the surfaces.

The surface quality of the hinge products is controlled according to the EN 1670 European standard. In this way, AKPEN handle products are ideal for coastal areas and frequently used places such as hotels and business centers.

Cleaning:

Contamination can be removed with a soft cloth and water. It is not recommended to use sharp cleaning agents. In addition, the handles do not require special care.



Durability

All AKPEN window and door handles are manufactured and tested according to European standards EN 13126-3. This provides long life durability for users. The capacity of hardware has been ensured by certifications according to the regulation EN 13126/3 tested at an European level.

Every step of design, manufacturing and logistic processes are systematically controlled according to AKPEN high level quality requirements.













Article Number Structure

$\frac{XX}{1} \cdot \frac{XXX}{2} \frac{XXX}{3} \cdot \frac{XX}{4} \cdot \frac{XX}{5}$

1- BRAND NUMBER (XX.XXXXXX.XX.XX)

00: Without brand

01: "AKPEN"

AAA : Aluminum British handles INC : Plastic window handle (without spindle) SOB : Mullion connector steel IZK : Striker zamak SRM : Sliding sash with sill ACT : Glass wedge IZO : Insulation materials STD : Product show booth

AKK : Alu door handleKIL : Mortise lockSUR : Insulation wedge for sliding systemAKM : Adjustable door hingeKKI : Multipoint door lockTAI : Side hung gearAKW : ScrewKLT : Door lockTCM : Trading productsALN : Allen keyKRJ : Sash grid elementsTED : Ventilation handle

APK : Alu window handle MIN : Mini locks TFL : PTFE material
ASG : Flyscreen equipments MNA : Alu hinge THI : Thiokol
AVK : Handle for parallel slide MNC : PVC Cemom hinge TKK : Group products

BSI : Simple sliding gear MNF : Vent TKM : Group
CNT : Scissors for gasket MNH : Alu speedy hinge TPS : Plastic window handl

CNT : Scissors for gasket MNH : Alu speedy hinge TPS : Plastic window handle (with spindle) CTL : Product catalogue MNP : Plastic covered steel hinge TSA : Alu sliding parts

CTP : Pliers for glass wedge MNS : Steel hinge TSM : Patallel slide manual systems
DBL : Steel anchor MSP : Steel easy hinge TSR : Parallel slide systems
EMN : Safety device PLS : Plastic hinge TSS : Tilt and slide systems
FTL : Weather strip for sliding PNL : Sandwich panel TSY : Parallel slide semi-automatic

G57 : H Mullion cover PRF : Profile TTS : Tilt and turn systems HHD : New door handle RTK : Furniture marker VVV : Tilt system

HHH : Aluminum and zink scraps SBL : Jig ZOB : Mullion connector, zamac

HOK: Mullion profile SKO: Sliding sash profile

a) TTS (Tilt and turn systems)

b) BSI - TAI (Sliding and side hung gears)

* BSI212 : 15 mm lockable sliding gear, zamak gearbox

* BSI222: 15 mm sliding gear, steel gearbox

* TAl100 - TAl199 : 7,5 mm side hung gear * TAl200 - TAl299 : 15 mm side hung gear * TAl300 - TAl399 : 20 mm side hung gear * TAl300 - TAl399 : 30 mm side hung gear

* TAI400 - TAI499 : 22 mm side hung gear

4- PRODUCT SIZE PROPERTIES (XX.XXXXXX.XX.XX)
a) Door handle products

* OL : Left

* OR : Right

* 00 : D 115 mm

* 01 : D 130 mm

* 02 : D 140 mm

* 03 : D 130 mm + 2 parts in different colours

* 10 : KV + D 115 mm

* 11 : KV + D 130 mm

* 12 : KV + 140 mm

V : Screw KV : Cuttable screw D : Spindle length

b) Window handle types



Article Number Structure

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c) 80 kg - 120 kg Adjustable door hinges
              * 00 : Frame part size 14 - 18 mm
      KS:Z = Frame Zamak
                                  KS:A = Frame Aluminum
                                                                      KN:Z = Sash Zamak
                                                                                                  KN:A = Sash Aluminum
      d) 160 kg Adjustable door hinges
       * 00 : Frame part size 15 - 19 mm * 01 : Frame part size 17 - 21 mm * 02 : Frame part size 19 - 23 mm * 03 : Frame part size 23 - 27 mm
      e) Hinge group article numbers
                                                                      * 05 : Egepen Max. Hinge
                                                                                                         * 07: Hinges with combinations
              * 01 : Eko Hinge
                                         * 03 : Heavy Hinge
             * 02 : AK Hinge
                                          * 04: Egepen Hinge
                                                                      * 06: Ado Marmara Hinge
      f) Side hung and sliding gear sizes
                                          * 06: 1200 mm (M-)
              * 01:300 mm (M-)
             * 02:400 mm (M-)
                                         * 07: 1400 mm (M-)
             * 03:600 mm (M-)
                                         * 08: 1600 mm (M+)
             * 04:800 mm (M-)
                                         * 09:1800 mm (M+)
             * 05:1000 mm (M-)
                                         * 10:2000 mm (M+)
      (M-): Without centering pin
                                                 (M+): With centering pin
      g) Lockable gears
             * 00: With standard locking pin
                                                               * 01: With security locking pin
      h) Mortise locks
                                         * 01 : Standard lock + locking plate
             * 00: Standard lock
                                                                                    * ZZ: Lock with zamak WC cylinder
      i) Tilt and turn parts
             * 00 : Without locking pin
                                         * 01: With standard locking pin
                                                                                    * 02: With security locking pin
      j) Profile fitting groove positions
             *01:9 mm
                                         * 02:13 mm
                                                                      * 04:14 mm
      k) Rebate Hinge groove positions and directions
              * L1 : Left 13 mm
                                         * L4: Left 14 mm
                                                                      * R1 : Right 13 mm
                                                                                                  * R4: Right 14 mm
             * L2 : Left 9 mm
                                                                      * R2: Right 9 mm
      I) Shoot bolt striker types
             * 01 : Adjustable shoot bolt striker (rounded)
                                                                             * 06: Zamak shoot bolt striker, 9 mm
             * 02 : Adjustable shoot bolt striker (cornered)
                                                                             * 07 : Zamak shoot bolt striker 13 mm
             * 03 : Adjustable shoot bolt striker (rounded) with anchorage
                                                                             * 08: Double sash thin striker
              * 04 : Adjustable shoot bolt striker (cornered) with anchorage
                                                                             * 09 : Security striker
             * 05 : Steel shoot bolt striker
                                                                              * 10 : Top striker for long shoot bolt with lever
                                                                             * 11 : Bottom striker for long shoot bolt with lever
      m) Tilt locking plate types
              * 11 : Tilt locking plate vertical, 9 mm
                                                                             * 21 : Tilt locking plate horizontal, 9 mm
             * 12 : Tilt locking plate vertical, 13 mm
                                                                             * 22 : Tilt locking plate horizontal, 13 mm
              * 13 : Tilt locking plate vertical, 10 mm
                                                                             * 23 : Tilt locking plate horizontal, 10 mm
              * 14 : Tilt locking plate vertical, 14 mm
                                                                             * 24 : Tilt locking plate horizontal, 14 mm
5 - SURFACE TREATMENT TYPES AND SIZES (XX.XXXXXX.XX.XX)
      a) Surface treatments
       * 00 : Zink plated surface
                                         * 05: RAL 8022 Black brown
                                                                             * 11: RAL 1001 Beige
                                                                                                                * 16: Anodized bronze
      * 01: RAL 9016 Traffic white
                                         * 06: RAL 9005 Jet black
                                                                             * 12 : RAL 1011 Brown beige
                                                                                                                * 17: RAL 1013 Oyster white
      * 02 : RAL 8003 Clay brown
                                         * 07 : RAL 1015 Light ivory
                                                                             * 13 : Anodized gold - 1
                                                                                                                * 18: Gold 4
       * 03 : RAL 8017 Chocolate brown
                                         * 08: RAL 7016 Anthracite grey
                                                                             * 14: Anodized gold - 2
                                                                                                                * 19: Anodized bronze 4
       * 04: RAL 8019 Grey brown
                                                                             * 15: Anodized grey
                                                                                                                * 20: Anodized bronze 5
      b) Tilt and turn gear lengths
       * 00: 250 mm (450 - 550)
                                          * 02:900 mm (700-1200)
                                                                                                                * 06: 2100 mm (1900 - 2400)
                                                                             * 04: 1400 mm (1200 - 1700)
       * 01:400 mm (550-700)
                                         * 03:1100 mm (900 - 1400)
                                                                             * 05: 1900 mm (1700 - 2200)
      c) Stay arm sizes
       * 01 : 450 mm (350 - 600)  * 02 : 500 mm (400 - 600)  * 03 : 700 mm (600 - 850)  * 04 : 950 mm (850 - 1100)  * 05 : 1200 mm (1100 - 1350)
      d) Middle lock sizes
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* 01:170 mm

* 02:500 mm

* 03:700 mm

*04:1000 mm

* 05:1500 mm

* 06: 1700 mm





3D ADJUSTABLE HINGES (WITH SOFT CORNERS)

Load Capacity

160 kg

Knuckle Length

110 mm

Knuckle Diameter

Ø25 mm

Material

Zamac

FINISH COLOURS

All colours shown in page 5

INSTALLATION TOOLS

00.SBL007.00.00 : Drilling Jig for 160 kg

See page?

ADJUSTMENTS

Side

-10 / +5 mm

Height

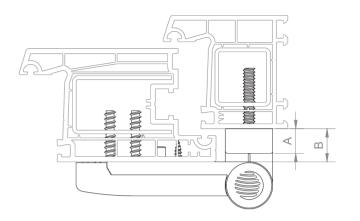
-1 / +3 mm

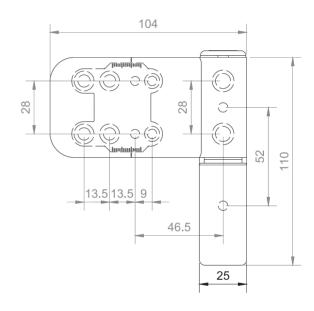
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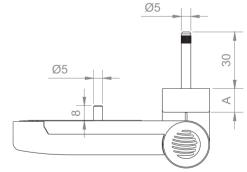
±2 mm

See page?

ARTICLE NO	А	В	
01.AKM301.00.0*	12,5	15 - 19	14
01.AKM302.00.0*	14,5	17 - 21	14
01.AKM303.00.0*	16,5	19 - 23	14
01.AKM304.00.0*	20,5	23 - 27	14











3D ADJUSTABLE HINGES (WITH SOFT CORNERS)

Load Capacity

160 kg

Knuckle Length

110 mm

Knuckle Diameter

Ø25 mm

Material

Zamac

FINISH COLOURS

All colours shown in page 5

INSTALLATION TOOLS

00.SBL007.00.00 : Drilling Jig for 160 kg

See page?

ADJUSTMENTS

Side

-10 / +5 mm

Height

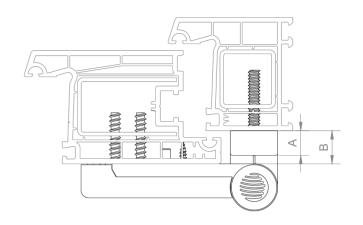
-1 / +3 mm

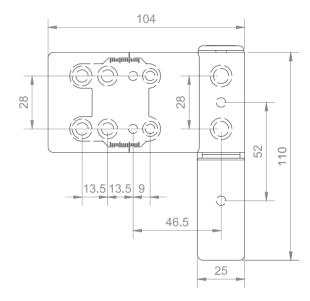
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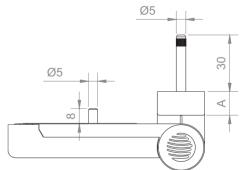
±2 mm

See page?

ARTICLE NO	А	В	
01.AKM401.00.0*	12,5	15 - 19	14
01.AKM402.00.0*	14,5	17 - 21	14
01.AKM403.00.0*	16,5	19 - 23	14
01.AKM404.00.0*	20,5	23 - 27	14

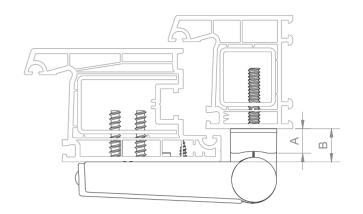


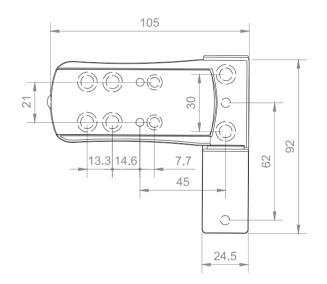


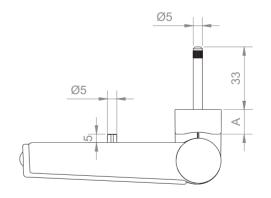












3D ADJUSTABLE HINGES

Load Capacity Knuckle Length 120 kg 92 mm

Knuckle Diameter

Ø24,5 mm

FINISH COLOURS

All colours shown in page 5

INSTALLATION TOOLS

00.SBL008.00.00 : Drilling Jig for 120 kg

See page ?

ADJUSTMENTS

Side

-5 / +10 mm

Height

-1 / +5 mm

Compression

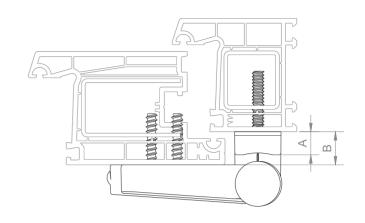
±1 mm

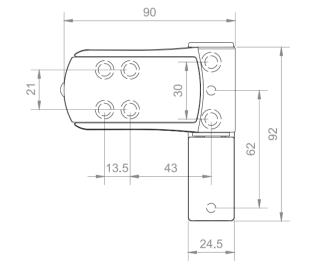
See page?

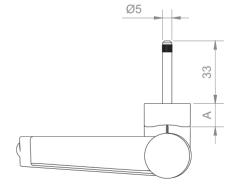
ARTICLE NO	А	В		0	
01.AKM110.00.0*	10	14 - 20	Zamac	Zamac	24
01.AKM111.00.0*	10	14 - 20	Aluminum	Aluminum	24
01.AKM112.00.0*	10	14 - 20	Aluminum	Zamac	24
00.AKM211.00.0*	10	14 - 20	Aluminum	Aluminum	100 (Single parts)











3D ADJUSTABLE HINGES (JUNIOR)

Load Capacity Knuckle Length 80 kg 92 mm

Knuckle Diameter

Ø24,5 mm

FINISH COLOURS

All colours shown in page 5

INSTALLATION TOOLS

00.SBL008.00.00 : Drilling Jig for 80 kg

See page?

ADJUSTMENTS

Side

±5 mm

Height

-1 / +5 mm

Compression

±1 mm

See page ?

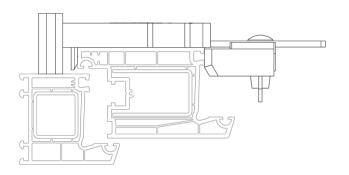
ARTICLE NO	Α	В		0 0	
01.AKM090.00.0*	10	14 - 20	Zamac	Zamac	24
01.AKM091.00.0*	10	14 - 20	Zamac	Aluminum	24
01.AKM092.00.0*	10	14 - 20	Aluminum	Aluminum	24



Jigs for 3D Adjustable Hinges

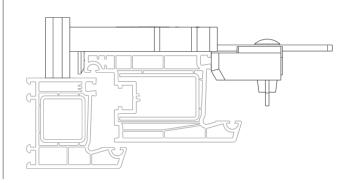


Jig for 160 kg 3D Adjustable Hinges





Jig for 120 and 80 kg 3D Adjustable Hinges
- Adjust the center part according to the hinge type (120 or 80 kg)



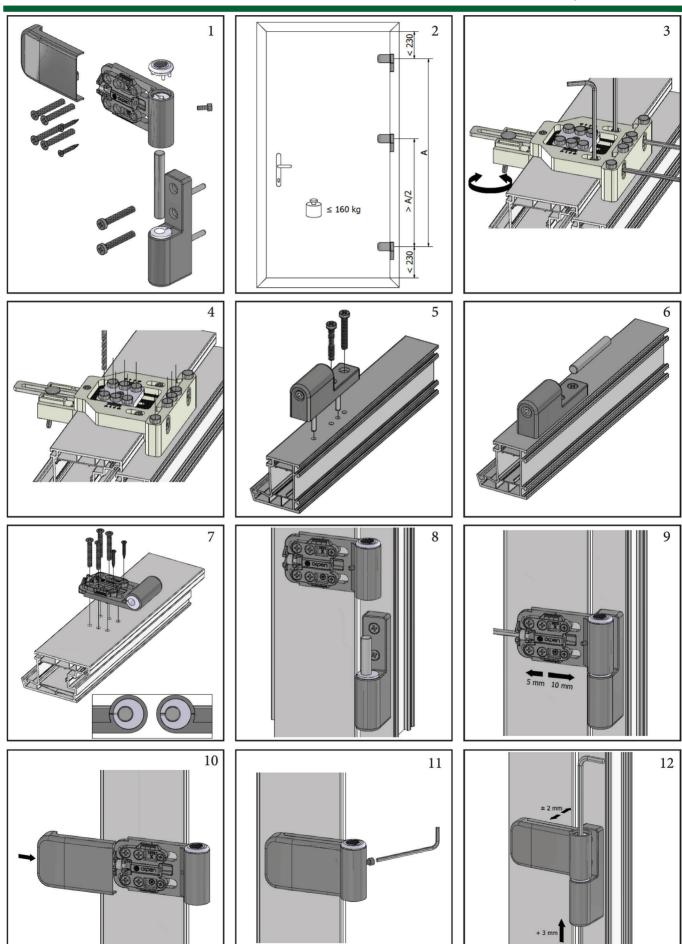
Use with;

- -5 mm drill
- -4 mm allen key (imbus)
- Assembly instruction

ARTICLE NO	HINGE TYPE
01.SBL007.00.00	160 kg 3D Adjustable Hinges
01.SBL006.00.01	120 and 80 kg 3D Adjustable Hinges



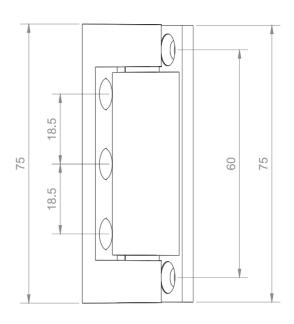
Assembly Instructions

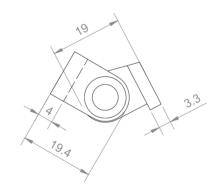




Side-Hung Hinges





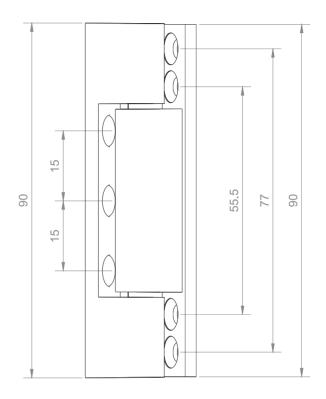


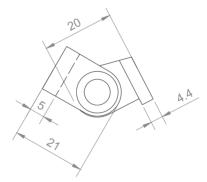
ARTICLE NO	DESCRIPTION	MATERIAL		
00.MNZ075.01.0*	75 mm Economic Hinge	Zamac	5	150
00.MNZ075.02.0* 00.MNZ075.06.0*	75 mm Hinge 75 mm Hinge for Adopen Marmara	Zamac Zamac	5 5	150 150
00.MNA075.00.0*	75 mm Hinge	Aluminum	5	200









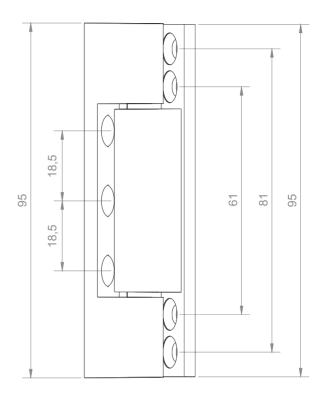


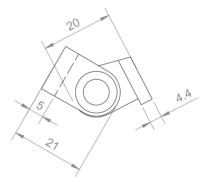
ARTICLE NO	DESCRIPTION	MATERIAL	(8)	
00.MNZ090.01.0*	90 mm Hinge for Adopen Marmara	Zamac	7	150



Side-Hung Hinges





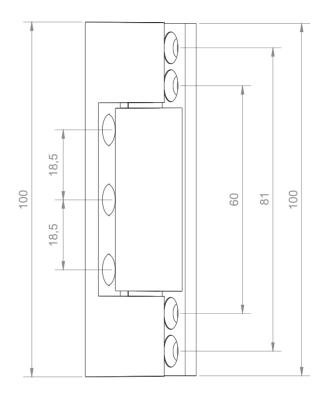


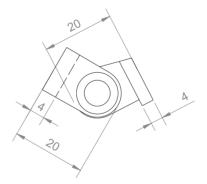
ARTICLE NO	DESCRIPTION	MATERIAL		
00.MNA095.00.0*	95 mm Hinge	Aluminum	7	150



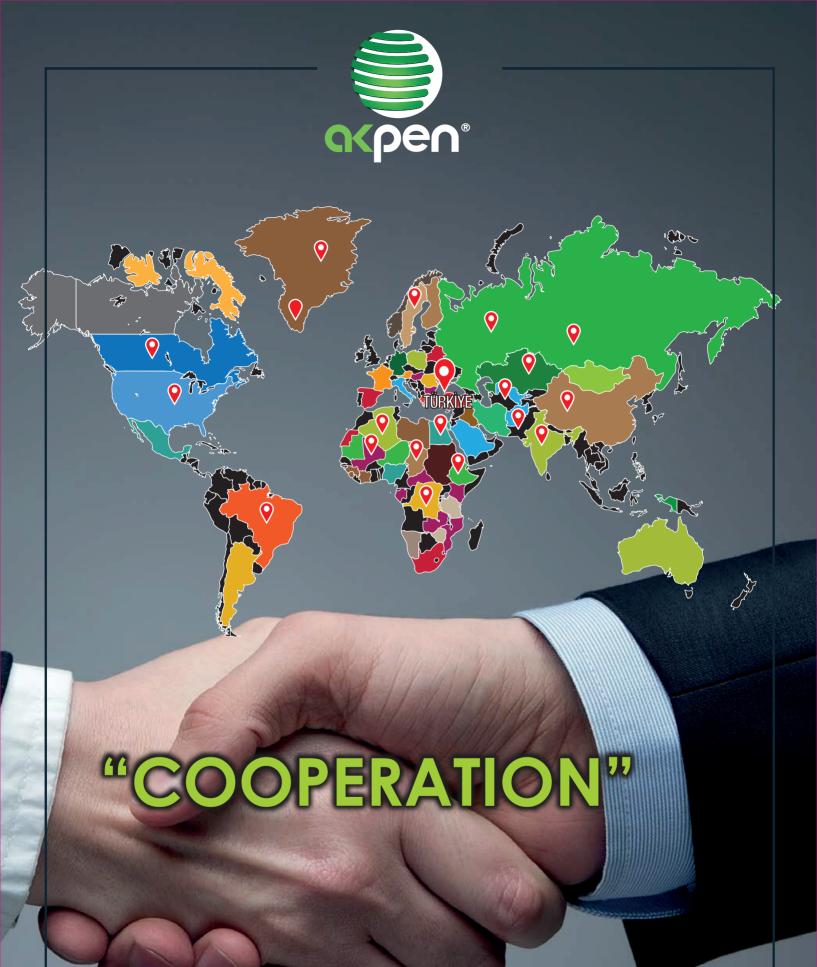








ARTICLE NO	DESCRIPTION	MATERIAL	(8)	
00.MNZ100.01.0*	100 mm Economic Hinge	Zamac	7	150



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HINGES





ACCESSORIES



facebook.com/akpennew instagram.com/akpennew

info@akpennew.com
www.akpennew.com

Hadımköy Mah. Uçurtma Sk. No:6, 34555 Arnavutköy/İSTANBUL/TÜRKİYE T: +90 212 798 34 34 F: +90 212 798 35 28 G: +90 533 705 5245

