



**KOMPAK SERİ**

**KIZAKLI SİLİNDİRLER**

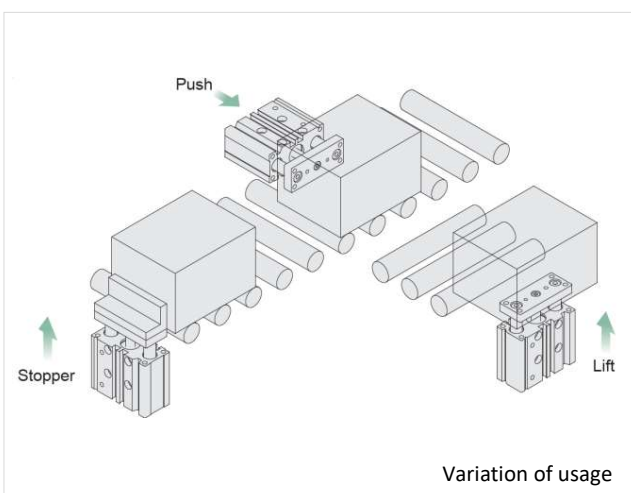
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**SEMAK<sup>®</sup>MATIC**  
PNEUMATIC EQUIPMENTS

# COMPACT SERIE with GUIDING UNIT



- ☐ Environmental component without pollutants.
- ☐ Use standart tool maintain piston rod.
- ☐ Light weight / save resources .
- ☐ Higher withstand load performance than conventional products .
- ☐ Sensor can be mounted on two sides .
- ☐ Piston speed range between 50 – 200 mm / sec.
- ☐ Suitable for high speed applications .
- ☐ Rubber bumper on both hands .



## ORDERING CODE

ordering code with spherical bearing : SMS ... / .... CMOKI

## ORDERING CODE FOR SENSOR

ordering code for 2 wire sensor : SMSS5V0230ACDC0

ordering code for 3 wire PNP sensor : SMSS5V030PNPDC0

*For the sensor details please see page 1.92*

*For Ø 16 – 25 mm min. stroke is 30 mm*

*For Ø 32 – 40 – 50 – 63 mm min stroke is 25 mm*

Fluid : Compressed filtered air with or without lubrication

If lubrication used at ones must be continious .

Pressure range : max. 10 bar

Temperature range : - 10 °C / + 50 °C

Version : Magnetic , Non cushioned , Double acting

## Materials

Guide plate : Steel ( white galvanized )

Body : Anodized aluminium

Seals : Nbr seals

Bush : Spherical bearings

Piston Rod : C45 Chromed steel

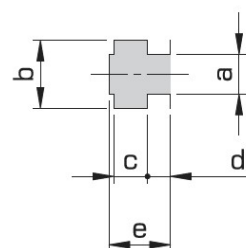
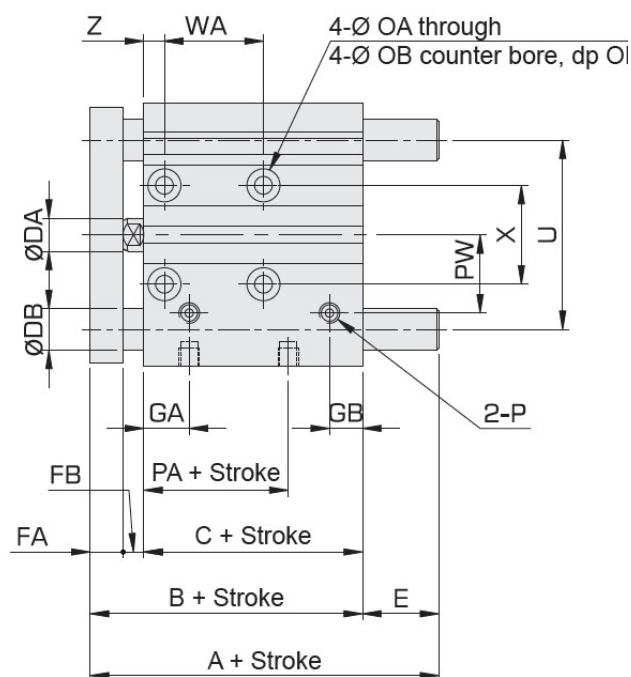
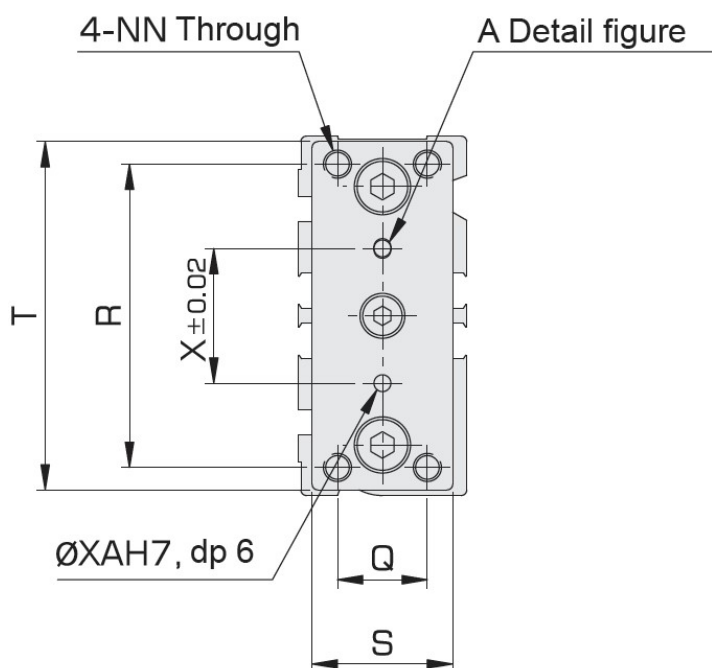
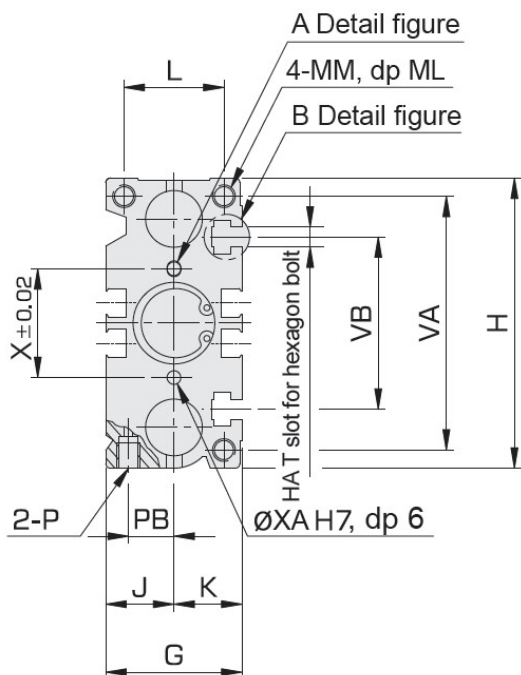
Guide rods : Hardened steel for spherical bearing application

Available series : With spherical bearing

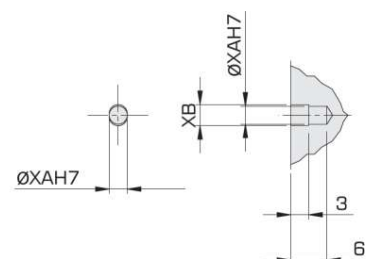
Standart diameters : Ø 16 mm – Ø 25 mm – Ø 32 mm – Ø 40 mm – Ø 50 mm – Ø 63 mm

Standart strokes : 25 mm - 30 mm – 50 mm – 75 mm – 100 mm – 150 mm – 200 mm

DIMENSIONS for Ø 16 mm – 25 mm



B Detail figure, scale 2:1



A Detail figure, scale 2:1

| Ø  | a   | b   | c   | d   | e   |
|----|-----|-----|-----|-----|-----|
| 16 | 4,4 | 7,4 | 3,7 | 2,5 | 6,7 |
| 25 | 5,4 | 8,4 | 4,5 | 3   | 8,2 |

| Ø  | A (+ stroke) |         |      | DB   | E    |         |      |
|----|--------------|---------|------|------|------|---------|------|
|    | 30           | 50 - 75 | 100  |      | 30   | 50 - 75 | 100  |
| 16 | 49,0         | 65,0    | 65,0 | 8,0  | 3,0  | 19,0    | 49,0 |
| 25 | 69,5         | 85,5    | 85,5 | 13,0 | 16,0 | 32,0    | 32,0 |

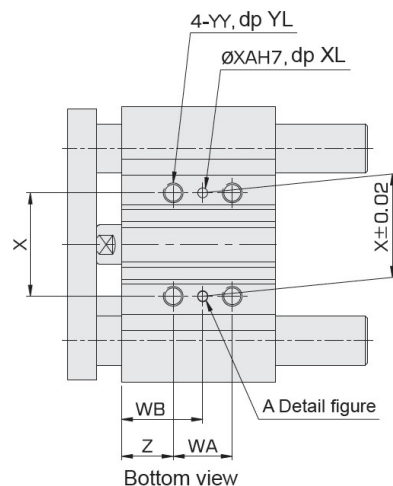
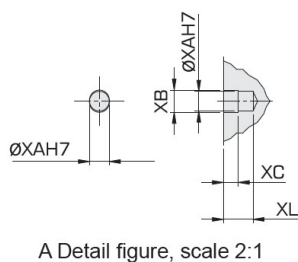
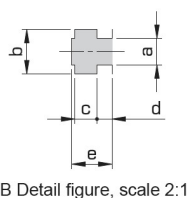
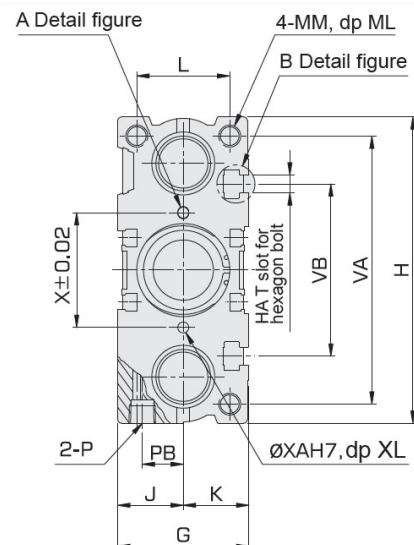
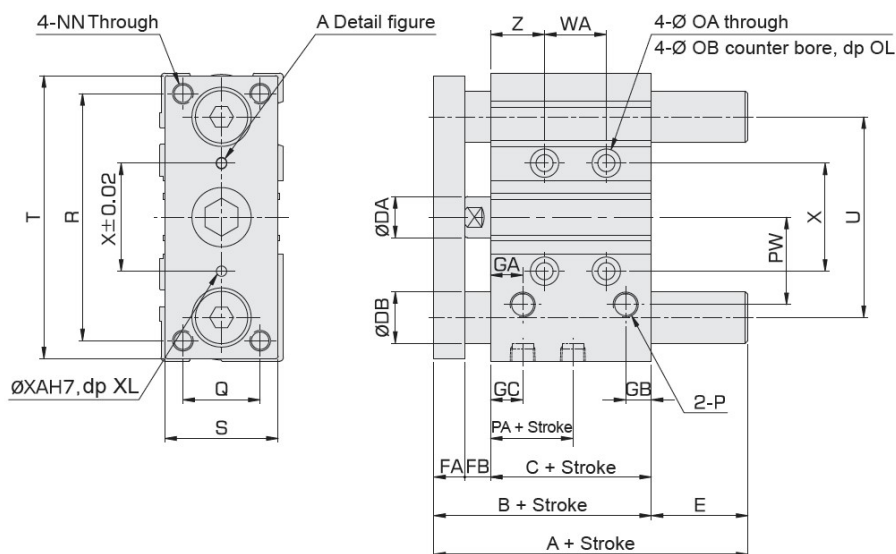
| Ø  | WA |         |     | WB |         |     | MM     | NN     | YY     | P      |
|----|----|---------|-----|----|---------|-----|--------|--------|--------|--------|
|    | 30 | 50 - 75 | 100 | 30 | 50 - 75 | 100 |        |        |        |        |
| 16 | 24 | 44      | 44  | 17 | 27      | 27  | M5x0,8 | M5x0,8 | M5x0,8 | M5x0,8 |
| 25 | 24 | 44      | 44  | 29 | 39      | 39  | M6x1,0 | M6x1,0 | M6x1,0 | Rc1/8  |

| Ø  | Q  | R  | S  | T  | U  | VA | VB | X  | XA | XB  | YL | Z  | OL  | PA   | PB   | PW   |
|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|------|------|------|
| 16 | 16 | 54 | 25 | 62 | 46 | 56 | 38 | 24 | 3  | 3,5 | 10 | 5  | 4,5 | 15   | 10   | 19   |
| 25 | 26 | 78 | 38 | 91 | 64 | 82 | 50 | 34 | 4  | 4,5 | 12 | 17 | 5,5 | 12,5 | 13,5 | 28,5 |

| Ø  | B    | C    | DA | FA | FB | G  | GA   | GB  | H  | HA | J  | K  | L  | ML | OA  | OB  |
|----|------|------|----|----|----|----|------|-----|----|----|----|----|----|----|-----|-----|
| 16 | 46   | 33   | 8  | 8  | 5  | 30 | 11   | 9,5 | 64 | M4 | 15 | 15 | 22 | 12 | 4,3 | 8   |
| 25 | 53.5 | 37.5 | 12 | 11 | 5  | 42 | 11,5 | 11  | 93 | M5 | 21 | 21 | 30 | 15 | 5,3 | 9,5 |

# COMPACT SERIE with GUIDING UNIT

DIMENSIONS for Ø 32 mm – 40 mm - 50 mm - 63 mm



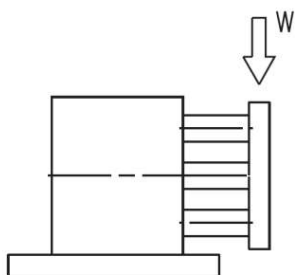
| Ø  | a    | b    | c    | d   | e    |
|----|------|------|------|-----|------|
| 32 | 6,5  | 10,5 | 5,5  | 3,5 | 9,5  |
| 40 | 6,5  | 10,5 | 5,5  | 4,0 | 11,0 |
| 50 | 8,5  | 13,5 | 7,5  | 4,5 | 13,5 |
| 63 | 11,0 | 17,8 | 10,0 | 7,0 | 18,5 |

| Ø  | A       |          |           | DB | E       |          |           | YY      | P     | WA |          |           | WB |          |           | MM      |
|----|---------|----------|-----------|----|---------|----------|-----------|---------|-------|----|----------|-----------|----|----------|-----------|---------|
|    | 25 - 50 | 75 - 100 | 150 - 200 |    | 25 - 50 | 75 - 100 | 150 - 200 |         |       | 25 | 50 - 100 | 150 - 200 | 25 | 50 - 100 | 150 - 200 |         |
| 32 | 81      | 98       | 118       | 16 | 21,5    | 38,5     | 58,5      | M8x1,25 | Rc1/8 | 24 | 48       | 124       | 33 | 45       | 83        | M8x1,25 |
| 40 | 81      | 98       | 118       | 16 | 15      | 32       | 52        | M8x1,25 | Rc1/8 | 24 | 48       | 124       | 34 | 46       | 84        | M8x1,25 |
| 50 | 93      | 114      | 134       | 20 | 21      | 42       | 62        | M10x1,5 | Rc1/4 | 24 | 48       | 124       | 36 | 48       | 86        | M10x1,5 |
| 63 | 93      | 114      | 134       | 20 | 16      | 37       | 57        | M10x1,5 | Rc1/4 | 28 | 52       | 128       | 38 | 50       | 88        | M10x1,5 |

| Ø  | R   | S  | T   | U   | VA  | VB  | X  | XA | XB  | XC | XL | YL | Z  | ML | OA  | OB | OL  |
|----|-----|----|-----|-----|-----|-----|----|----|-----|----|----|----|----|----|-----|----|-----|
| 32 | 96  | 44 | 110 | 78  | 98  | 63  | 42 | 4  | 4,5 | 3  | 6  | 16 | 21 | 20 | 6,6 | 11 | 7,5 |
| 40 | 104 | 44 | 118 | 86  | 106 | 72  | 50 | 4  | 4,5 | 3  | 6  | 16 | 22 | 20 | 6,6 | 11 | 7,5 |
| 50 | 130 | 60 | 146 | 110 | 130 | 92  | 66 | 5  | 6   | 4  | 8  | 20 | 24 | 22 | 8,6 | 14 | 9,5 |
| 63 | 130 | 70 | 158 | 124 | 142 | 110 | 80 | 5  | 6   | 4  | 8  | 20 | 24 | 22 | 8,6 | 14 | 9,5 |

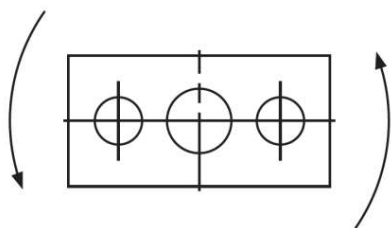
| Ø  | B    | C    | DA | FA | FB | G  | GA   | GB   | H   | HA  | J  | K  | L  | PA | GC   | PB   | PW | Q  |
|----|------|------|----|----|----|----|------|------|-----|-----|----|----|----|----|------|------|----|----|
| 32 | 59,5 | 37,5 | 16 | 12 | 10 | 48 | 12,5 | 11,5 | 112 | M6  | 24 | 24 | 34 | 7  | 12,5 | 15   | 34 | 30 |
| 40 | 66   | 44   | 16 | 12 | 10 | 54 | 14   | 12   | 120 | M6  | 27 | 27 | 40 | 13 | 14   | 18   | 38 | 30 |
| 50 | 72   | 44   | 20 | 16 | 12 | 64 | 14   | 13   | 148 | M8  | 32 | 32 | 46 | 9  | 12   | 21,5 | 47 | 40 |
| 63 | 77   | 49   | 20 | 16 | 12 | 78 | 16,5 | 14   | 162 | M10 | 39 | 39 | 58 | 14 | 16,5 | 28   | 58 | 50 |

## MAX. APPLICABLE LOADS ( kg. )



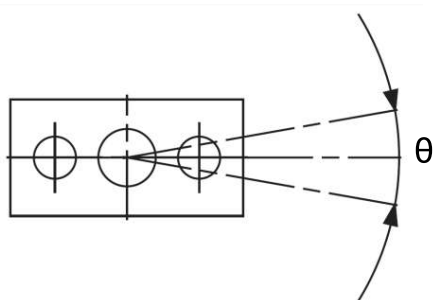
| Ø mm / stroke | 30 mm | 50 mm | 75 mm | 100 mm | 150 mm |
|---------------|-------|-------|-------|--------|--------|
| 16            | 3,2   | 2,8   | 2,5   | 1,1    |        |
| 25            | 5,2   | 4,5   | 3,8   | 2,5    | 1,5    |
| 32            | 7,2   | 5,8   | 4,3   | 3,2    | 2,4    |
| 40            | 8,4   | 6,5   | 5,4   | 4,3    | 3,1    |
| 50            | 9,0   | 7,3   | 6,2   | 5,1    | 4,0    |
| 63            | 9,8   | 7,8   | 6,9   | 5,4    | 4,8    |

## MAX. APPLICABLE TORQUE ( Nm )



| Ø mm / stroke | 30 mm | 50 mm | 75 mm | 100 mm | 150 mm | 200 mm |
|---------------|-------|-------|-------|--------|--------|--------|
| 16            | 0,59  | 0,86  | 0,65  | 0,52   |        |        |
| 25            | 2,11  | 3     | 2,38  | 1,97   | 1,78   | 1,41   |
| 32            | 5,95  | 4,89  | 5,11  | 4,51   | 5,79   | 4,93   |
| 40            | 6,55  | 5,39  | 5,62  | 4,96   | 6,38   | 5,43   |
| 50            | 9,71  | 7,62  | 9,83  | 8,74   | 10,7   | 9,12   |
| 63            | 10,2  | 8,48  | 11    | 9,74   | 11,9   | 10,2   |

## NON ROTATING ACCURACY of PLATE ( $\theta^\circ$ )



| Ø mm | $\theta$   |
|------|------------|
| 16   | +/- 0,10 ° |
| 25   | +/- 0,09 ° |
| 32   | +/- 0,08 ° |
| 40   | +/- 0,08 ° |
| 50   | +/- 0,06 ° |
| 63   | +/- 0,06 ° |

# SEMATİK

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