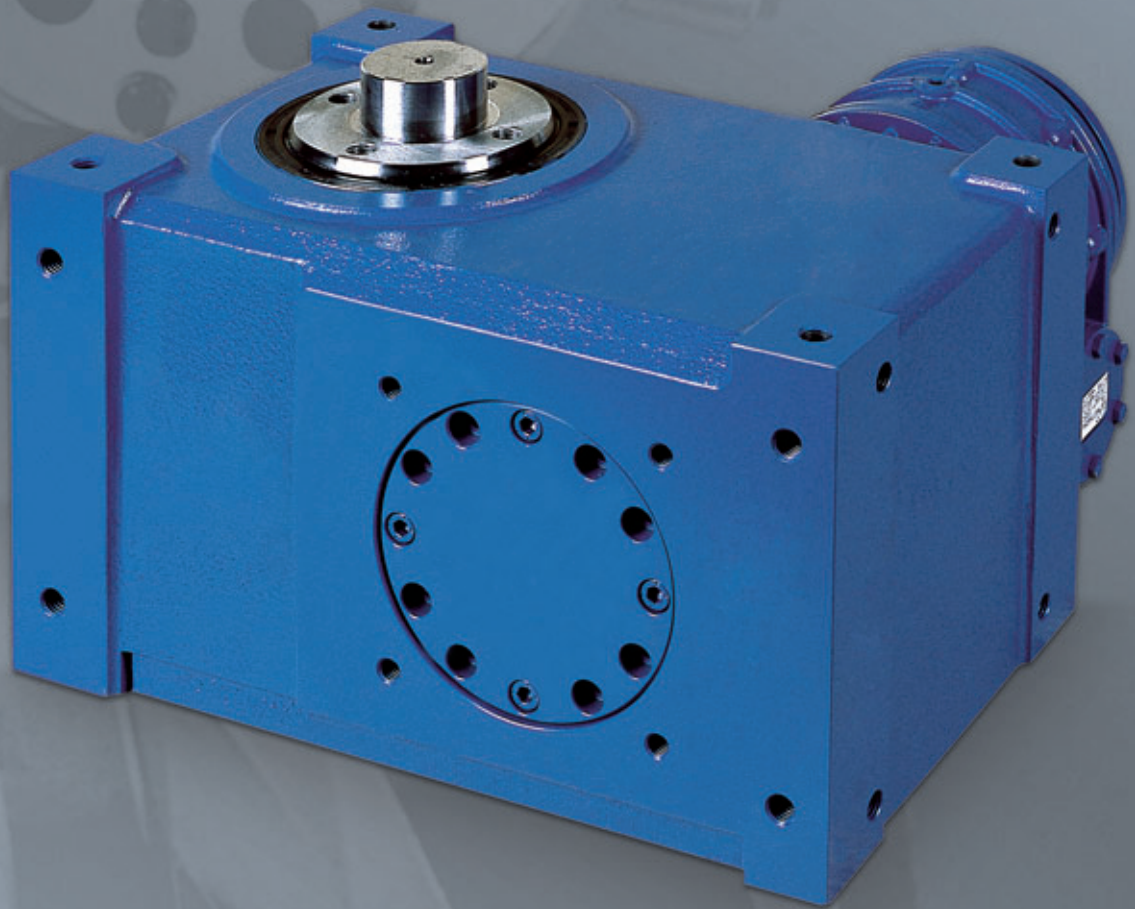


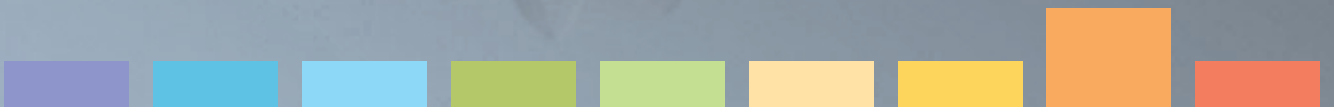
Serie S



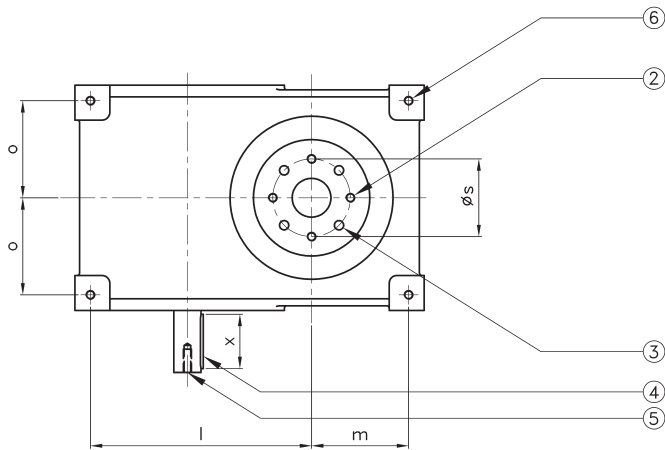
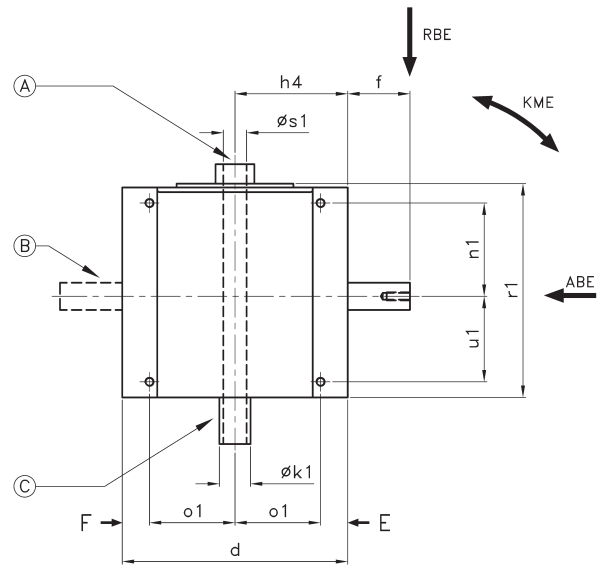
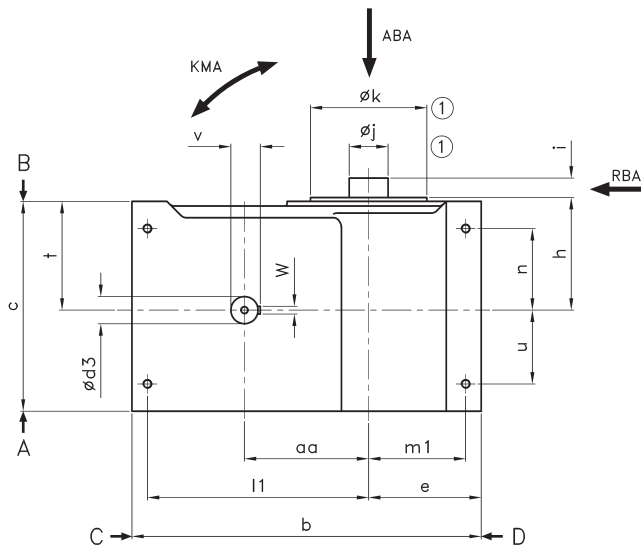
SOPAP



S 50 - 250



Serie S



- ① Rotating
- ② 4 threaded holes **Q** on $\varnothing s$
A hole is in this position in one of the stop period
- ③ Pinning on $\varnothing s$
To be undertaken by customer
- ④ The key is in this position when the cam is at the middle of the stop period
- ⑤ Threaded hole **Y**
- ⑥ 4 threaded holes **P**

Extra features on request

- (A) Hollow output shaft
- (B) Double input shaft
- (C) Double output shaft upon customer's dimensions requirements

Dimensions without tolerances according to JS 13

Keys normalised under DIN 6885

3 years warranty on standard products.

Serie S

Technical characteristics

| Size | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 |
|--|------|------|------|------|------|------|------|------|
| Concentricity on diam. K without loading (mm) | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 |
| Flatness on diam. K without loading (mm) | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 |
| Max. allowable axial load output shaft ABA (daN) | 24 | 105 | 180 | 200 | 250 | 325 | 395 | 555 |
| Max. allowable radial load output shaft RBA (daN) | 115 | 545 | 800 | 1000 | 1200 | 1635 | 1975 | 2790 |
| Max. allowable tilting torque output shaft KMA (daNm) | 15 | 21 | 45 | 68 | 95 | 171 | 295 | 436 |
| Additional fixed torque Mf1 (daNm) | 0,5 | 0,8 | 1,5 | 2,2 | 3 | 4 | 5 | 6,5 |

Indexing accuracy ± 0.02 mm on Rs

Repeatability ± 0.01 mm on Rs

| Loads input shaft | Active zone of cam | | Size | | | | | | | |
|---|--------------------|----|------|-----|-----|-----|-----|-----|------|------|
| | 1 | 2 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 |
| | Number of stops | | | | | | | | | |
| Max. allowable axial load input shaft ABE (daN) | until 10 | 16 | 15 | 30 | 32 | 55 | 75 | 115 | 235 | 350 |
| | 12 to 16 | 24 | - | 15 | 25 | 29 | 45 | 50 | 115 | 160 |
| | 20 to 24 | | - | - | 25 | 29 | 29 | 50 | 51 | 122 |
| Max. allowable radial load input shaft RBE (daN) | until 10 | 16 | 75 | 160 | 160 | 275 | 380 | 575 | 1170 | 1765 |
| | 12 to 16 | 24 | - | 75 | 140 | 145 | 240 | 255 | 590 | 800 |
| | 20 to 24 | | - | - | 140 | 140 | 145 | 255 | 255 | 605 |
| Max. allowable tilting torque input shaft KME (daNm) | until 10 | 16 | 3 | 8 | 15 | 26 | 26 | 62 | 122 | 163 |
| | 12 to 16 | 24 | - | 5 | 8 | 15 | 26 | 26 | 62 | 122 |
| | 20 to 24 | | - | - | 8 | 15 | 15 | 26 | 26 | 62 |

Indexing unit Number of stops:

2 - 3 - 4 - 5 - 6 - 9 - 10 -
12 - 16 - 20 - 24

Further numbers of stop on request

Oscillating unit Angle of oscillation:

15° - 20° - 30° - 45° - 60° -
75° - 90° - 120°

Further angles of oscillation on request

Dimensions

| Size | S 50 | S 63 | S 80 | S 100 | S 125 | S 160 | S 200 | S 250 |
|-------------|---------|---------|----------|----------|----------|----------|----------|----------|
| aa | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 |
| b | 140 | 180 | 230 | 280 | 365 | 450 | 550 | 720 |
| c | 100 | 130 | 160 | 185 | 215 | 270 | 330 | 390 |
| d | 90 | 120 | 160 | 180 | 220 | 290 | 360 | 500 |
| e | 45 | 60 | 70 | 90 | 110 | 145 | 180 | 250 |
| Ø d3* | 14 | 19 | 19 | 24 | 28 | 35 | 48 | 55 |
| Ø d3** | - | 14 | 19 | 19 | 24 | 24 | 35 | 42 |
| Ø d3*** | - | - | 19 | 19 | 19 | 24 | 24 | 35 |
| h | 62 | 77 | 95 | 100 | 115 | 145 | 175 | 205 |
| i | 10 | 10 | 20 | 20 | 25 | 25 | 25 | 25 |
| Ø j f7 | 15 | 25 | 40 | 40 | 50 | 50 | 50 | 60 |
| Ø k | 40 | 60 | 80 | 90 | 105 | 150 | 160 | 180 |
| K1 max | 15 | 20 | 20 | 25 | 30 | 40 | 60 | 60 |
| l | 75 | 110 | 145 | 175 | 235 | 285 | 350 | 440 |
| m | 35 | 50 | 55 | 75 | 90 | 125 | 160 | 220 |
| n | 40 | 55 | 70 | 80 | 75 | 105 | 120 | 150 |
| o | 35 | 50 | 65 | 75 | 90 | 125 | 160 | 220 |
| P | M6 x 13 | M8 x 16 | M10 x 20 | M10 x 20 | M12 x 20 | M12 x 25 | M16 x 30 | M16 x 30 |
| Q | M8 x 16 | M8 x 16 | M10 x 15 | M10 x 15 | M12 x 22 | M12 x 30 | M12 x 40 | M16 x 45 |
| Ø s | 28 | 45 | 60 | 65 | 80 | 100 | 130 | 140 |
| t | 50 | 65 | 85 | 95 | 110 | 140 | 170 | 200 |
| u | 40 | 55 | 40 | 55 | 70 | 95 | 110 | 140 |
| l1 | 85 | 100 | 135 | 165 | 235 | 285 | 350 | 440 |
| m1 | 25 | 40 | 45 | 65 | 90 | 125 | 160 | 220 |
| n1 | 30 | 55 | 70 | 80 | 90 | 120 | 150 | 170 |
| u1 | 30 | 55 | 40 | 55 | 85 | 110 | 140 | 160 |
| o1 | 35 | 40 | 55 | 65 | 75 | 110 | 140 | 200 |
| h4 | 57 | 72 | 80 | 90 | 110 | 145 | 180 | 250 |
| b1 | 89 | 119 | - | - | - | - | - | - |
| c1 | 89 | 108 | - | - | - | - | - | - |
| p1 | 13 | 16 | 20 | 20 | 20 | 25 | 30 | 30 |
| q1 | 16 | 16 | 15 | 15 | 20 | 20 | 20 | 25 |
| r1 | 112 | 142 | 170 | 190 | 220 | 275 | 335 | 395 |
| Ø s1 | 8 | 10 | 12 | 15 | 22 | 30 | 40 | 45 |
| Weight (kg) | ~ 9 | ~ 14 | ~ 25 | ~ 38 | ~ 63 | ~ 110 | ~ 195 | ~ 385 |

* until 10 stops

** 12 to 16 stops

*** 20 to 24 stops

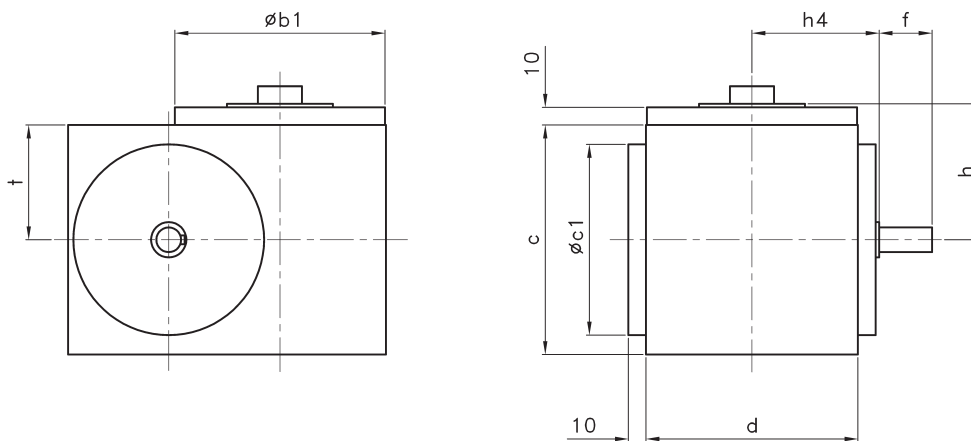
For dimensions of S 140 and S 315 please contact us
Dimensions for reducers and motors: please contact us



Input shaft dimensions

| $\varnothing d3$ | 14 ^{h6} | 19 ^{h6} | 24 ^{h6} | 28 ^{h6} | 35 ^{h6} | 42 ^{h6} | 48 ^{h6} | 55 ^{h6} | 65 ^{h6} |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| f | 30 | 40 | 50 | 60 | 80 | 110 | 110 | 110 | 140 |
| v | 16 | 21,5 | 27 | 31 | 38 | 45 | 51,5 | 59 | 69 |
| w^{N9} | 5 | 6 | 8 | 8 | 10 | 12 | 14 | 16 | 18 |
| x | 25 | 30 | 40 | 50 | 70 | 100 | 100 | 100 | 125 |
| Y | M4 x 10 | M5 x 10 | M6 x 12 | M8 x 15 | M10 x 20 | M12 x 25 | M16 x 35 | M16 x 35 | M16 x 35 |

Variants for housings with centres distance of 50 and 63 mm

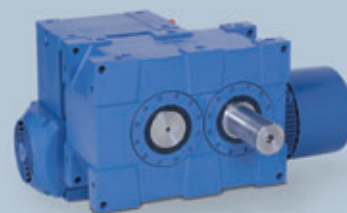




SOPAP



SOPAP ensures quality and reliability



France

SOPAP SAS
Z.A.M Châlons Nord
1 Rue des Vignettes
F-51520 La Veuve

Téléphone: +33 (0) 3 26 69 21 21
Télécopie: +33 (0) 3 26 69 21 31
E.mail: info.fr@sopap.com

Deutschland Süd

SOPAP GmbH
Mittelöschstrasse 21
D-88213 Ravensburg

Telefon: +49 (0) 751 9507
Telefax: +49 (0) 751 92583
E.mail: info-sued.de@sopap.com

España

SOPAP Automatización S.L.
%Las Cruces nº6 – Bajo C
E-28230 Las Rozas
Madrid

Teléfono: +34 91 636 01 39
Teléfax: +34 91 636 02 64
E.mail: info.es@sopap.com

Benelux

ADR
Solvayweg 18
6049 CP Herten-Roermond
Nederland

Telefoon: +31 475 337379
Fax: +31 475 337444
E.mail: info.nl@sopap.com

Brasil

Triaxis
Rua Bulgária, 215
Vila Santa Luzia
09871-100 Sao Bernardo do Campo

Telefone: +55 11 4361 4977
Fax: +55 11 4361 9004
E.mail: info.br@sopap.com

Deutschland Mitte

Konstruktionsbüro Becker
Hch. Von Brentanoweg 2
D-64683 Einhausen

Telefon: +49 (0) 6251 856601
Telefax: +49 (0) 6251 987701
E.mail: info-mitte.de@sopap.com

USA

SOPAP LLC
560-A Brookshire Road
29651 Greer
South Carolina

Telephone: +1 864 801 1450
Fax: +1 864 801 1460
E.mail: info-sc.usa@sopap.com

USA

Rudy V. Colombi
2696 Red Fox Trail
48098 Troy
Michigan

Telephone: +1 248 840 2377
Fax: +1 248 540 7535
E.mail: info-mi.usa@sopap.com

Canada

DOLYX trading inc.
171 Nicholson Crt.
L7N 3N5 Burlington
Ontario

Telephone: +1 905 631 6615
Fax: +1 905 631 6244
E.mail: info-on.ca@sopap.com