

- Single-phase or tri-phase AC motor
- Worm gearbox
- Acme lead screw or ballscrew (VRS)
- Chrome plated steel push rod
- Grease Lubricated
- IP55, tested according to rule CEI EN 60529
NB: Only for brake motors Standard IP54, IP65 on request
- Working temperature range -10°C +60°C
- Intermittent duty S3 30% (5 min) a 30°C - for any other request contact MecVel technical dept.
- Limit switches on request
- Potentiometer and encoder on request
- At-Ex II 3 D T4 version (AC.motor) on request

| HRS50 (Vac tri-phase) | | | | |
|------------------------|--------------|---------|------------|------------------|
| Fmax (N) | Speed (mm/s) | Version | Motor size | Motor power (KW) |
| 18000 * | 65 | M01 | IEC112 | 4 4 poli |
| 29000 * | 33 | M02 | IEC112 | 4 4 poli |
| 36500 | 11 | M03 | IEC90 | 2.2 2 poli |
| 50000 | 5 | M04 | IEC90 | 1.5 4 poli |
| HRS100 (Vca tri-phase) | | | | |
| Fmax (N) | Speed (mm/s) | Version | Motor size | Motor power (KW) |
| 38000 * | 42 | M01 | IEC132 | 7.5 4 poli |
| 58000 | 14 | M02 | IEC112 | 5.5 2 poli |
| 87000 | 7 | M03 | IEC112 | 4 4 poli |
| 100000 | 2 | M04 | IEC80 | 1.8 2 poli |

| HRS200 (Vac tri-phase) | | | | |
|------------------------|--------------|---------|------------|------------------|
| Fmax (N) | Speed (mm/s) | Version | Motor size | Motor power (KW) |
| 44000 * | 47 | M01 | IEC132 | 9.2 4 poli |
| 90000 | 16 | M02 | IEC132 | 7.5 2 poli |
| 130000 | 8 | M03 | IEC132 | 5.5 4 poli |
| 200000 | 2 | M04 | IEC90 | 3 2 poli |

| HRS50 VRS (ballscrew) (Vac tri-phase) | | | | |
|--|--------------|---------|------------|------------------|
| Fmax (N) | Speed (mm/s) | Version | Motor size | Motor power (KW) |
| 30000 * | 47 | M01 | IEC90 | 1.8 4 poli |
| 45000 | 23 | M02 | IEC90 | 1.5 4 poli |
| 50000 | 7 | M04 | IEC71 | 0.55 2 poli |
| 50000 | 3 | M05 | IEC71 | 0.37 4 poli |
| HRS100 VRS (ballscrew) (Vac tri-phase) | | | | |
| Fmax (N) | Speed (mm/s) | Version | Motor size | Motor power (KW) |
| 51000 * | 47 | M01 | IEC100 | 3 4 poli |
| 70000 | 23 | M02 | IEC100 | 2.2 4 poli |
| 92000 | 8 | M03 | IEC100 | 2.2 4 poli |
| 100000 | 5 | M04 | IEC71 | 0.75 2 poli |
| 100000 | 2 | M05 | IEC71 | 0.55 2 poli |
| HRS200 VRS (ballscrew) (Vac tri-phase) | | | | |
| Fmax (N) | Speed (mm/s) | Version | Motor size | Motor power (KW) |
| 125000 * | 47 | M01 | IEC132 | 9.2 4 poli |
| 174000 | 30 | M02 | IEC132 | 7.5 2 poli |
| 200000 | 15 | M04 | IEC132 | 5.5 4 poli |
| 200000 | 6 | M05 | IEC90 | 2.2 2 poli |

* When speed is more than 30 mm/s and/or strokes longer than 350mm, check STROKE SETUP section

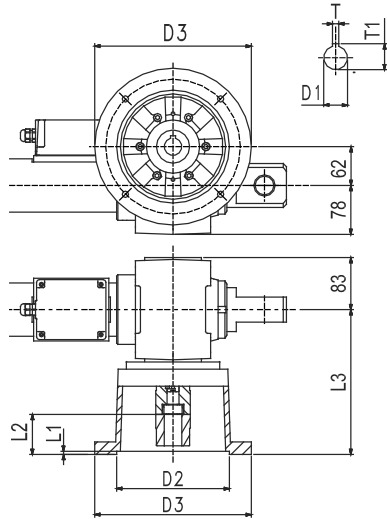
With single-phase motors type M (see in paragraph ACCESSORIES) performances are 20% lower than the three-phase motor.

→ The brakemotor is strongly recommended

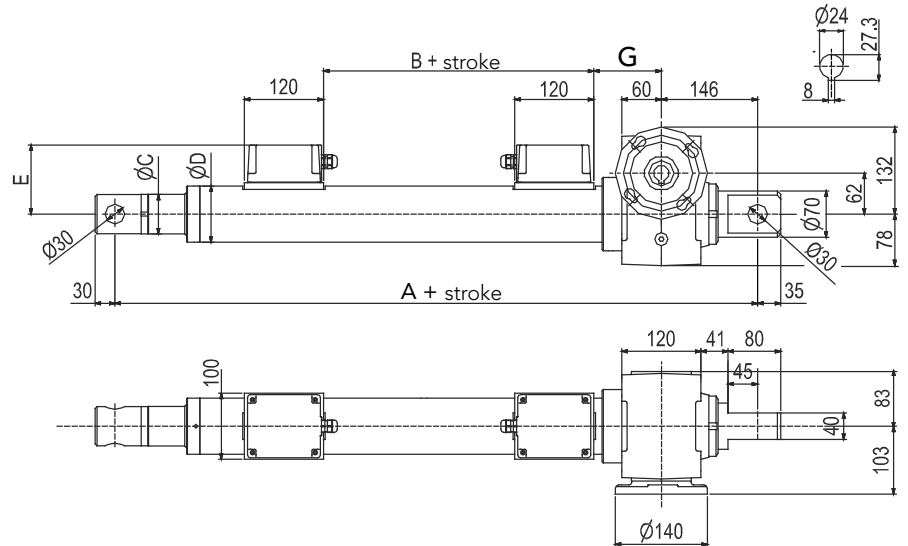
THIS DOCUMENT DISPLAYS MOST TYPICAL STANDARD FEATURES AND SETUPS: CONTACT OUR OFFICES FOR MORE. ACTUATOR SHALL NOT COME TO MECHANICAL STROKE-END, TO AVOID FAILURES. CONSIDER MECVEL'S LIMITSWITCHES OR PUT THEM ON MACHINE/FRAME. BEFORE OPERATING ACTUATOR MAKE SURE YOU READ AND UNDERSTOOD BASIC OPERATIONAL INSTRUCTIONS SHOWN ON USERMANUALS, AVAILABLE FROM WEBSITE.

MecVel reserves the right to change products information and/or features without notice; all data contained in this catalogue are purely indicative and not binding for the company.

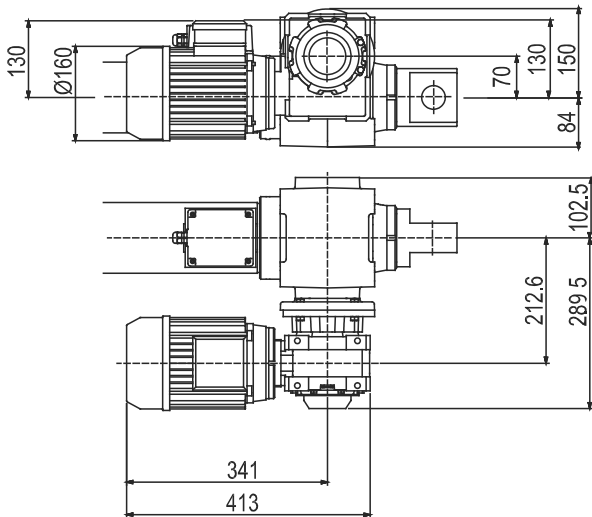
HRS50 BELL FLANGE + COUPLING VERSION



HRS50 FLANGED VERSION

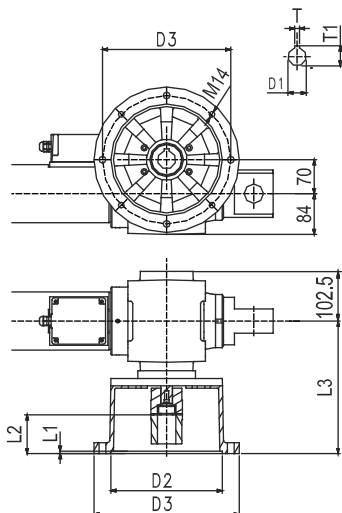


HRS50 GEARMOTOR VERSION

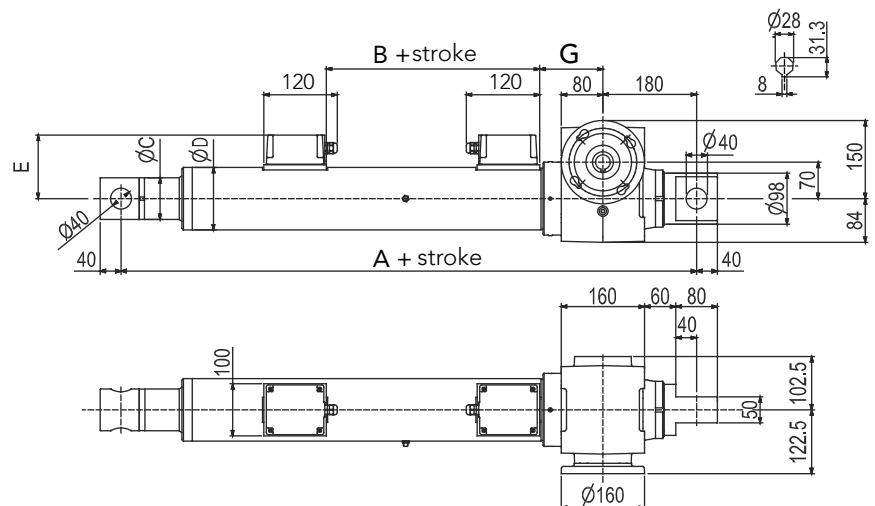


| DIM. | TPN/VRS | | DIM. | BELL FLANGE + COUPLING |
|------|-----------|-----------|------|------------------------|
| | HRS50 TPN | HRS50 VRS | | IEC 100/112 B5 |
| A | 575 | 715 | D1 | Ø 28 |
| B | 10 | 104 | D2 | Ø 180 |
| C | 60 | 70 | D3 | Ø 215 |
| D | 85 | 140 | D4 | Ø 250 |
| E | 105 | 132 | F | Ø 14.5 |
| G | 123 | 161 | L1 | 5 |
| | | | L2 | 68 |
| | | | L3 | 231 |
| | | | T | 8 |
| | | | T1 | 31.3 |

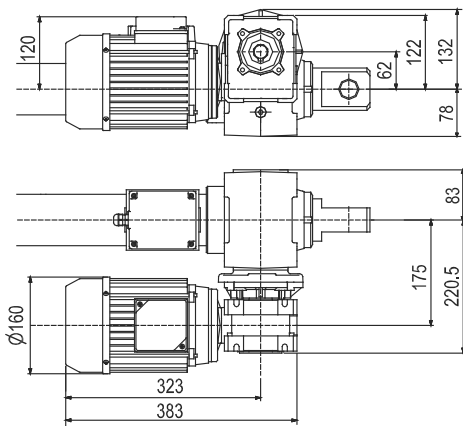
HRS100 BELL FLANGE + COUPLING VERSION



HRS100 FLANGED VERSION

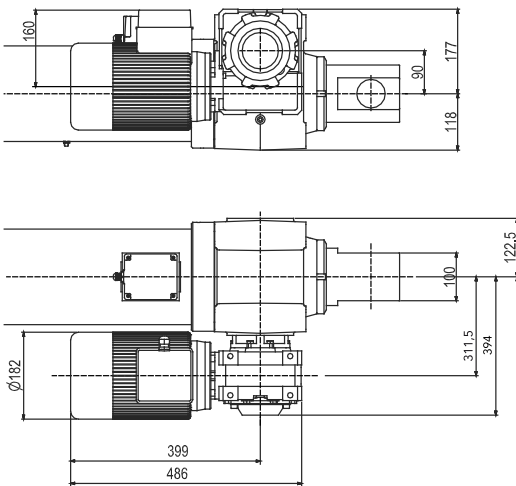


HRS100 GEARMOTOR VERSION

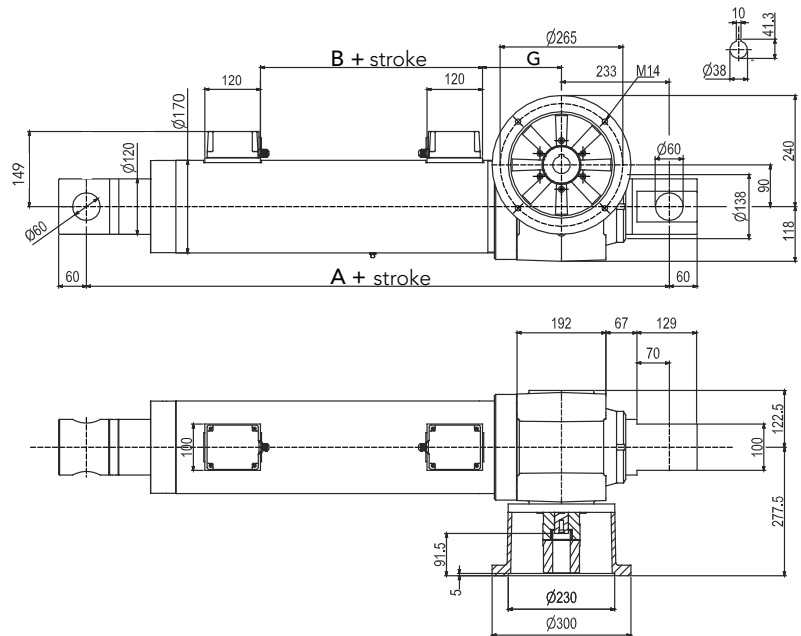


| DIM. | TPN/VRS | | DIM. | BELL FLANGE + COUPLING | |
|------|------------|------------|------|------------------------|--|
| | HRS100 TPN | HRS100 VRS | | IEC 132 B5 | |
| A | 706 | 790 | D1 | Ø 30 | |
| B | 10 | 158 | D2 | Ø 230 | |
| C | 80 | 80 | D3 | Ø 265 | |
| D | 120 | 155 | D4 | Ø 300 | |
| E | 122 | 141 | F | Ø 14.5 | |
| G | 152 | 161 | L1 | 5 | |
| | | | L2 | 91 | |
| | | | L3 | 274 | |
| | | | T | 10 | |
| | | | T1 | 41.3 | |

HRS200 GEARMOTOR VERSION



HRS200 BELL FLANGE + COUPLING VERSION



| DIM. | TPN/VRS | |
|------|------------|------------|
| | HRS200 TPN | HRS200 VRS |
| A | 880 | 1015 |
| B | 80 | 142 |

For motor sizes it is possible to refer to IEC standard motors.
 Never allow the linear actuator to reach the mechanical stop, in order to avoid damages of internal components.

HRMS100/0250/M02/CA-400/50-T-112-4-4/AB/M0/1/E06/2FCI/P1/A1/B+L

MODEL _____
 HRS50 / HRS50 VRS / HRS100 / HRS100 VRS / HRS200 / HRS200 VRS
 with motor: indicate HRMS and the size/version required

STROKE (mm) _____
 es. 250 mm = 0250

VERSION _____
 M01 / M02 / M03 / M04 / M05
 M00 Not standard speed
 Flanged version: indicate reduction ratio and screw pitch

MOTOR _____
 AC: indicate version, tension, type, size, n. of poles, power
 with flat input motor flange indicate 0
 with specific flat input motor flange indicate PD

AC MOTOR OPTION _____
 Motorflange: for motorflange version only advise size - i.e.for IEC80 B14 put 80B14
 Protection Degree: IP65, for selfbrake motor IP54 standard
 Brake type: for brakemotors only: ES. FECA
 Options: Advise if needed (ES. AB 2'shaft)

MOTOR POSITION _____
 M0 (standard) M1 None: leave blank

E-BOX POSITION _____
 1

ENCODER _____
 Options pg.76 None: leave blank

LIMIT SWITCHES _____
 2FC1 None: leave blank

REAR END _____
 P1 eyelet (standard) P2 eyelet 90°

FRONT END _____
 A1 eyelet (standard) A3 yoke + clip A4 ball joint A7 male

OPTIONS _____
 B bellows boot L anti-rotation device T additional shaft on the opposite side of motor

| FRONT END | DIM. | HRS50 | | HRS100 | | HRS200 | |
|-----------|------|--------|-----|--------|-----|---------|------|
| | | TPN | VRS | TPN | VRS | TPN | VRS |
| A3 | A | 660 | 815 | 834 | 918 | 1053 | 1178 |
| | B | 54 | | 72 | | 96 | |
| | C | 30 | | 35 | | 50 | |
| | D | Ø 30 | | Ø 35 | | Ø 50 | |
| | E | 55 | | 70 | | 96 | |
| | F | 55 | | 70 | | 96 | |
| A4 | A | 667 | 818 | 815 | 900 | 1010 | 1160 |
| | G | Ø 30 | | Ø 35 | | Ø 60 | |
| | H | R. 35 | | R. 40 | | R. 68.5 | |
| | I | 37.5 | | 43 | | 44 | |
| A7 | A | 531 | 686 | 669 | 753 | 838 | 858 |
| | L | M 30x2 | | M 36x2 | | M 52x3 | |
| | M | 55 | | 70 | | 80 | |

