



| ROMI C 420 | ROMI C 510 | ROMI C 620 | ROMI C 680 | ROMI C 830 | ROMI C 1000



TECHNICAL SPECIFICATION

CNC LATHES

**ROMI C** SERIES

| Technical specifications                     |                | ROMI C 420                                  | ROMI C 510                                  |            | ROMI C 620                                  | ROMI C 680                     |
|----------------------------------------------|----------------|---------------------------------------------|---------------------------------------------|------------|---------------------------------------------|--------------------------------|
| Capacity                                     |                |                                             |                                             |            |                                             |                                |
| Centers height                               | mm (in)        | 215 (8.5)                                   | 260 (10.2)                                  |            | 310 (12.2)                                  | 352 (13.9)                     |
| Distance between centers                     | m (in)         | 1.0 (39)                                    | 1.5 (59)                                    |            | 1.0 / 2.0 (39 / 79)                         | 2.0 / 3.0 (79 / 118)           |
| Swing over bed                               | mm (in)        | 430 (16.9)                                  | 520 (20)                                    |            | 620 (24)                                    | 680 (27)                       |
| Swing over cross slide                       | mm (in)        | 200 (7.9)                                   | 255 (10)                                    |            | 346 (13.6)                                  | 430 (16.9)                     |
| Swing over saddle wings                      | mm (in)        | 400 (15.7)                                  | 450 (17.7)                                  |            | 540 (21)                                    | 620 (24)                       |
| Cross slide travel (X axis)                  | mm (in)        | 220 (8.7)                                   | 280 (11)                                    |            | 360 (14.2)                                  | 360 (14.2)                     |
| Longitudinal carriage travel (Z axis)        | mm (in)        | 1,065 (42)                                  | 1,555 (61)                                  |            | 1,025 / 2,025 (40 / 80)                     | 2,025 / 3,025 (80 / 119)       |
| Bed                                          |                |                                             |                                             |            |                                             |                                |
| Width                                        | mm (in)        | 305 (12)                                    | 340 (13.4)                                  |            | 380 (15)                                    | 380 (15)                       |
| Height                                       | mm (in)        | 350 (13.8)                                  | 336 (13.2)                                  |            | 400 (15.7)                                  | 400 (15.7)                     |
| Headstock                                    |                |                                             |                                             |            |                                             |                                |
| Spindle nose                                 | ASA            | A2-5"                                       | A2-6"                                       | A2-8"      | A2-8"                                       | A2-8"                          |
| Spindle hole diameter                        | mm (in)        | 53 (2.1)                                    | 65 (2.6)                                    | 80 (3.1)   | 104 (4.1)                                   | 104 (4.1)                      |
| Transmission system                          |                | Direct drive                                | Direct drive                                |            | Direct drive                                | Geared                         |
| Speed ranges                                 | rpm            | 4 to 4,000                                  | 3 to 3,000                                  | 2 to 2,200 | 1 to 1,800                                  | 1 to 1,800                     |
|                                              | Range I        |                                             |                                             |            |                                             | 1 to 452                       |
|                                              | Range II       |                                             |                                             |            |                                             | 1 to 1,800                     |
| Feeds                                        |                |                                             |                                             |            |                                             |                                |
| Rapid traverse (Z axis)                      | m/min (in/min) | 10 (394)                                    | 10 (394)                                    |            | 8 (315)                                     | 8 (315)                        |
| Rapid traverse (X axis)                      | m/min (in/min) | 10 (394)                                    | 10 (394)                                    |            | 8 (315)                                     | 8 (315)                        |
| Manual Tailstock                             |                |                                             |                                             |            |                                             |                                |
| Body positioning                             |                | Manual                                      | Manual (std) / Drag through the table (opt) |            | Manual (std) / Drag through the table (opt) | Drag trough the table          |
| Quill drive                                  |                | Manual (std) / Pneumatic or Hydraulic (opt) | Manual (std) / Pneumatic or Hydraulic (opt) |            | Manual (std) / Hydraulic (opt)              | Manual (std) / Hydraulic (opt) |
| Maximum quill stroke                         | mm (in)        | 120 (4.7)                                   | 130 (5.1)                                   |            | 180 (7.1)                                   | 180 (7.1)                      |
| Quill diameter                               | mm (in)        | 60 (2.4)                                    | 80 (3.1)                                    |            | 100 (3.9)                                   | 130 (5.1)                      |
| Quill taper hole                             | CM             | 4                                           | 4                                           |            | 5                                           | 5                              |
| Installed power                              |                |                                             |                                             |            |                                             |                                |
| AC Main motor (S6 - 40% rating)              | hp / kW        | 12.5 / 9                                    | 15 / 11                                     |            | 25 / 18.5                                   | 45 / 33.6                      |
| AC Main motor (continuous rating)            | kVA            | 15                                          | 20                                          |            | 25                                          | 50                             |
| Dimensions and weight (*)                    |                |                                             |                                             |            |                                             |                                |
| Floor space required - 1.0 m between centers | m (in)         | 3.10 x 1.24 (122 x 49)                      | -                                           |            | 3.85 x 2.08 (152 x 82)                      | -                              |
| Floor space required - 1.5 m between centers | m (in)         | -                                           | 3.75 x 1.68 (148 x 66)                      |            | -                                           | -                              |
| Floor space required - 2.0 m between centers | m (in)         | -                                           | -                                           |            | 4.85 x 2.08 (191 x 82)                      | 6.65 x 2.43 (262 x 96)         |
| Floor space required - 3.0 m between centers | m (in)         | -                                           | -                                           |            | -                                           | 7.70 x 2.43 (303 x 96)         |
| Floor space required - 5.0 m between centers | m (in)         | -                                           | -                                           |            | -                                           | -                              |
| Approx. net weight - 1.0 m between centers   | kg (lbs)       | 2,500 (5,500)                               | -                                           |            | 5,000 (11,000)                              | -                              |
| Approx. net weight - 1.5 m between centers   | kg (lbs)       | -                                           | 3,750 (8,200)                               |            | -                                           | -                              |
| Approx. net weight - 2.0 m between centers   | kg (lbs)       | -                                           | -                                           |            | 5,550 (12,200)                              | 6,300 (13,900)                 |
| Approx. net weight - 3.0 m between centers   | kg (lbs)       | -                                           | -                                           |            | -                                           | 7,000 (15,400)                 |
| Approx. net weight - 5.0 m between centers   | kg (lbs)       | -                                           | -                                           |            | -                                           | -                              |

(\*) Without chip conveyor

| Technical specifications                     |                | ROMI C 830                     |            | ROMI C 1000                    | ROMI C 1000BB (Big Bore)       |
|----------------------------------------------|----------------|--------------------------------|------------|--------------------------------|--------------------------------|
| Capacity                                     |                |                                |            |                                |                                |
| Centers height                               | mm (in)        | 435 (17.1)                     |            | 510 (20)                       | 510 (20)                       |
| Distance between centers                     | m (in)         | 3.0 / 5.0 (118 / 197)          |            | 3.0 / 5.0 (118 / 197)          | 3.0 (118)                      |
| Swing over bed                               | mm (in)        | 850 (33)                       |            | 1,000 (39)                     | 1,000 (39)                     |
| Swing over cross slide                       | mm (in)        | 550 (22)                       |            | 700 (28)                       | 700 (28)                       |
| Cross slide travel (X axis)                  | mm (in)        | 520 (20)                       |            | 520 (20)                       | 520 (20)                       |
| Longitudinal carriage travel (Z axis)        | mm (in)        | 3,020 / 5,020 (119 / 198)      |            | 3,020 (119)                    | 3,020 (119)                    |
| Bed                                          |                |                                |            |                                |                                |
| Width                                        | mm (in)        | 460 (18.1)                     |            | 460 (18.1)                     | 460 (18.1)                     |
| Height                                       | mm (in)        | 420 (16.5)                     |            | 420 (16.5)                     | 420 (16.5)                     |
| Headstock                                    |                |                                |            |                                |                                |
| Spindle nose                                 | ASA            | A2-11"                         | A2-15"     | A2-20"                         | A2-20"                         |
| Spindle hole diameter                        | mm (in)        | 160 (6.3)                      | 260 (10.2) | 320 (12.6)                     | 375 (14.8)                     |
| Transmission system                          |                | Geared                         |            | Geared                         | Geared                         |
| Speed ranges                                 | rpm            | 1 to 1,000                     | 1 to 550   | 1 to 500                       | 1 to 400                       |
|                                              | Range I        | 1 to 250                       | 1 to 194   | 1 to 126                       | 1 to 125                       |
|                                              | Range II       | 1 to 1,000                     | 1 to 550   | 1 to 500                       | 1 to 400                       |
| Feeds                                        |                |                                |            |                                |                                |
| Rapid traverse (Z axis)                      | m/min (in/min) | 8 (315) (*) / 5 (197) (**)     |            | 8 (315) (*) / 5 (197) (**)     | 8 (315)                        |
| Rapid traverse (X axis)                      | m/min (in/min) | 8 (315)                        |            | 8 (315)                        | 8 (315)                        |
| Manual Tailstock                             |                |                                |            |                                |                                |
| Body positioning                             |                | Drag trough the table          |            | Drag trough the table          | Drag trough the table          |
| Quill drive                                  |                | Manual (std) / Hydraulic (opt) |            | Manual (std) / Hydraulic (opt) | Manual (std) / Hydraulic (opt) |
| Maximum quill stroke                         | mm (in)        | 200 (7.9)                      |            | 200 (7.9)                      | 200 (7.9)                      |
| Quill diameter                               | mm (in)        | 130 (5.1)                      |            | 130 (5.1)                      | 130 (5.1)                      |
| Quill taper hole                             | CM             | 5                              |            | 5                              | 5                              |
| Installed power                              |                |                                |            |                                |                                |
| AC Main motor (S6 - 40% rating)              | hp / kW        | 45 / 33.6                      |            | 45 / 33.6                      | 45 / 33.6                      |
| Total installed power                        | kVA            | 50                             |            | 50                             | 50                             |
| Dimensions and weight (***)                  |                | -                              |            | -                              | -                              |
| Floor space required - 1.0 m between centers | m (in)         | -                              |            | -                              | -                              |
| Floor space required - 1.5 m between centers | m (in)         | -                              |            | -                              | -                              |
| Floor space required - 2.0 m between centers | m (in)         | -                              |            | -                              | -                              |
| Floor space required - 3.0 m between centers | m (in)         | 7.52 x 3.20 (296 x 126)        |            | 7.52 x 3.20 (296 x 126)        | 7.52 x 3.20 (296 x 126)        |
| Floor space required - 5.0 m between centers | m (in)         | 9.52 x 3.20 (375 x 126)        |            | 9.52 x 3.20 (375 x 126)        | -                              |
| Approx. net weight - 1.0 m between centers   | kg (lbs)       | -                              |            | -                              | -                              |
| Approx. net weight - 1.5 m between centers   | kg (lbs)       | -                              |            | -                              | -                              |
| Approx. net weight - 2.0 m between centers   | kg (lbs)       | -                              |            | -                              | -                              |
| Approx. net weight - 3.0 m between centers   | kg (lbs)       | 10,250 (22,600)                |            | 10,250 (22,600)                | 11,600 (25,600)                |
| Approx. net weight - 5.0 m between centers   | kg (lbs)       | 13,750 (30,300)                |            | 13,750 (30,300)                | -                              |

(\*) Without chip conveyor

| Technical specifications                                            |        |          | ROMI C 420            | ROMI C 510             | ROMI C 620                  | ROMI C 680                  |
|---------------------------------------------------------------------|--------|----------|-----------------------|------------------------|-----------------------------|-----------------------------|
| Tool holders and turrets                                            |        |          |                       |                        |                             |                             |
| <b>Quick change tool holder (opt)</b>                               |        |          |                       |                        |                             |                             |
| Holders                                                             |        |          | 2 or 3                | 3                      | 3                           | 3                           |
| Tool holder size                                                    | Square | mm (in)  | 20 x 20 (0.79 x 0.79) | 25 x 25 (0.98 x 0.98)  | 32 x 32 (1.26 x 1.26)       | 32 x 32 (1.26 x 1.26)       |
|                                                                     | Round  | mm (in)  | Ø 25 (0.98)           | Ø 25 (0.98)            | Ø 32 (1.26)                 | Ø 32 (1.26)                 |
| <b>Rear tool holder (opt)</b>                                       |        |          |                       |                        |                             |                             |
| Tool holder size                                                    | Square | mm (in)  | 20 x 20 (0.79 x 0.79) | 25 x 25 (0.98 x 0.98)  | 25 x 25 (0.98 x 0.98)       | 25 x 25 (0.98 x 0.98)       |
|                                                                     | Round  | mm (in)  | Ø 25 (0.98)           | Ø 32 (1.26)            | Ø 40 (1.57)                 | Ø 40 (1.57)                 |
| <b>Gang tools (opt)</b>                                             |        |          |                       |                        |                             |                             |
| Tool holder size                                                    | Square | mm (in)  | 20 x 20 (0.79 x 0.79) | -                      | -                           | -                           |
|                                                                     | Round  | mm (in)  | Ø 25 (0.98)           | -                      | -                           | -                           |
| <b>WTO tool holder (opt)</b>                                        |        |          |                       |                        |                             |                             |
| VDI-50 tool holder/ DIN 69880-50 (opt)                              |        |          |                       |                        |                             |                             |
| Tool holder size                                                    | Square | mm (in)  | -                     | 32 x 32 (1.26 x 1.26)  | -                           | -                           |
|                                                                     | Round  | mm (in)  | -                     | Ø 40 (1.57)            | -                           | -                           |
| Axial driven tool holder                                            |        | DIN 6499 | -                     | ER-40 (Ø 4 to Ø 26 mm) | -                           | -                           |
| Radial driven tool holder                                           |        | DIN 6499 | -                     | ER-40 (Ø 4 to Ø 26 mm) | -                           | -                           |
| Driven tool speed range                                             |        | rpm      | -                     | 1 to 1,500 rpm         | -                           | -                           |
| <b>8-station manual square turret (opt)</b>                         |        |          |                       |                        |                             |                             |
| Tool holder size                                                    | Square | mm (in)  | 25 x 25 (0.98 x 0.98) | -                      | -                           | -                           |
|                                                                     | Round  | mm (in)  | Ø 25 (0.98)           | -                      | -                           | -                           |
| <b>4-station square manual tool holder (opt)</b>                    |        |          |                       |                        |                             |                             |
| Number of stations / tools                                          |        |          | -                     | -                      | -                           | -                           |
| Section of external tool holder                                     |        | mm (in)  | -                     | -                      | -                           | -                           |
| Section of internal tool holder                                     |        | mm (in)  | -                     | -                      | -                           | -                           |
| <b>4-station vertical automatic turret (opt)</b>                    |        |          |                       |                        |                             |                             |
| Number of stations / tools                                          |        | un       | -                     | -                      | 4                           | 4                           |
| Tool holder size                                                    | Square | mm (in)  | -                     | -                      | 25 x 25 (0.98 x 0.98)       | 25 x 25 (0.98 x 0.98)       |
|                                                                     | Round  | mm (in)  | -                     | -                      | Ø 40 (1.57)                 | Ø 40 (1.57)                 |
| <b>8-station horizontal automatic turret (opt)</b>                  |        |          |                       |                        |                             |                             |
| Tool holder fixing type                                             |        |          | Romi                  | Romi                   | Romi or VDI - 40            | Romi or VDI - 40            |
| Number of stations / tools                                          |        | un       | 8                     | 8                      | 8                           | 8                           |
| Tool holder size                                                    | Square | mm (in)  | 25 x 25 (0.98 x 0.98) | 25 x 25 (0.98 x 0.98)  | 25 x 25 (0.98 x 0.98)       | 25 x 25 (0.98 x 0.98)       |
|                                                                     | Round  | mm (in)  | Ø 25 (0.98)           | Ø 32 (1.26)            | Ø 40 (1.57)                 | Ø 40 (1.57)                 |
| <b>8-station horizontal automatic turret for driven tools (opt)</b> |        |          |                       |                        |                             |                             |
| Tool holder fixing type                                             |        |          | -                     | -                      | VDI - 40                    | VDI - 40                    |
| Number of stations / tools                                          |        | un       | -                     | -                      | 8                           | 8                           |
| Tool holder size                                                    | Square | mm (in)  | -                     | -                      | 25 x 25 (0.98 x 0.98)       | 25 x 25 (0.98 x 0.98)       |
|                                                                     | Round  | mm (in)  | -                     | -                      | Ø 40 (1.57)                 | Ø 40 (1.57)                 |
| Axial driven tool holder                                            |        | DIN 6499 | -                     | -                      | ER - 32<br>(Ø 3 to Ø 20 mm) | ER - 32<br>(Ø 3 to Ø 20 mm) |
| Driven tool speed range                                             |        | rpm      | -                     | -                      | 4 to 4,000                  | 4 to 4,000                  |

(\*) Without chip conveyor

| Technical specifications                                            |        |          | ROMI C 830                              | ROMI C 1000                             | ROMI C 1000BB (Big Bore)                |
|---------------------------------------------------------------------|--------|----------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| Tool holders and turrets                                            |        |          |                                         |                                         |                                         |
| <b>Quick change tool holder (opt)</b>                               |        |          |                                         |                                         |                                         |
| Holders                                                             |        |          | 3                                       | 3                                       | 3                                       |
| Tool holder size                                                    | Square | mm (in)  | 40 x 40 (1.57 x 1.57)                   | 40 x 40 (1.57 x 1.57)                   | 40 x 40 (1.57 x 1.57)                   |
|                                                                     | Round  | mm (in)  | Ø 50 (2) or Ø 60 (2.4)                  | Ø 50 (2) or Ø 60 (2.4)                  | Ø 50 (2) or Ø 60 (2.4)                  |
| <b>Rear tool holder (opt)</b>                                       |        |          |                                         |                                         |                                         |
| Tool holder size                                                    | Square | mm (in)  | -                                       | -                                       | -                                       |
|                                                                     | Round  | mm (in)  | -                                       | -                                       | -                                       |
| <b>Gang tools (opt)</b>                                             |        |          |                                         |                                         |                                         |
| Tool holder size                                                    | Square | mm (in)  | -                                       | -                                       | -                                       |
|                                                                     | Round  | mm (in)  | -                                       | -                                       | -                                       |
| <b>WTO tool holder (opt)</b>                                        |        |          |                                         |                                         |                                         |
| VDI-50 tool holder/ DIN 69880-50 (opt)                              |        |          |                                         |                                         |                                         |
| Tool holder size                                                    | Square | mm (in)  | -                                       | -                                       | -                                       |
|                                                                     | Round  | mm (in)  | -                                       | -                                       | -                                       |
| Axial driven tool holder                                            |        | DIN 6499 | -                                       | -                                       | -                                       |
| Radial driven tool holder                                           |        | DIN 6499 | -                                       | -                                       | -                                       |
| Driven tool speed range                                             |        | rpm      | -                                       | -                                       | -                                       |
| <b>8-station manual square turret (opt)</b>                         |        |          |                                         |                                         |                                         |
| Tool holder size                                                    | Square | mm (in)  | -                                       | -                                       | -                                       |
|                                                                     | Round  | mm (in)  | -                                       | -                                       | -                                       |
| <b>4-station square manual tool holder (opt)</b>                    |        |          |                                         |                                         |                                         |
| Number of stations / tools                                          |        |          | 4                                       | 4                                       | 4                                       |
| Section of external tool holder                                     |        | mm (in)  | 40 x 40 (1.57 x 1.57)                   | 40 x 40 (1.57 x 1.57)                   | 40 x 40 (1.57 x 1.57)                   |
| Section of internal tool holder                                     |        | mm (in)  | Ø 60 (2.4)                              | Ø 60 (2.4)                              | Ø 60 (2.4)                              |
| <b>4-station vertical automatic turret (opt)</b>                    |        |          |                                         |                                         |                                         |
| Number of stations / tools                                          |        | un       | 4                                       | 4                                       | 4                                       |
| Tool holder size                                                    | Square | mm (in)  | 32 x 32 (1.26 x 1.26)                   | 32 x 32 (1.26 x 1.26)                   | 32 x 32 (1.26 x 1.26)                   |
|                                                                     | Round  | mm (in)  | Ø 50 / Ø 60 / Ø 80<br>(2.0 / 2.4 / 3.1) | Ø 50 / Ø 60 / Ø 80<br>(2.0 / 2.4 / 3.1) | Ø 50 / Ø 60 / Ø 80<br>(2.0 / 2.4 / 3.1) |
| <b>8-station horizontal automatic turret (opt)</b>                  |        |          |                                         |                                         |                                         |
| Tool holder fixing type                                             |        |          | -                                       | -                                       | -                                       |
| Number of stations / tools                                          |        | un       | -                                       | -                                       | -                                       |
| Tool holder size                                                    | Square | mm (in)  | -                                       | -                                       | -                                       |
|                                                                     | Round  | mm (in)  | -                                       | -                                       | -                                       |
| <b>8-station horizontal automatic turret for driven tools (opt)</b> |        |          |                                         |                                         |                                         |
| Tool holder fixing type                                             |        |          | VDI - 50                                | VDI - 50                                | VDI - 50                                |
| Number of stations / tools                                          |        | un       | 8                                       | 8                                       | 8                                       |
| Tool holder size                                                    | Square | mm (in)  | 32 x 32 (1.26 x 1.26)                   | 32 x 32 (1.26 x 1.26)                   | 32 x 32 (1.26 x 1.26)                   |
|                                                                     | Round  | mm (in)  | Ø 40 (1.57)                             | Ø 40 (1.57)                             | Ø 40 (1.57)                             |
| Axial driven tool holder                                            |        | DIN 6499 | -                                       | -                                       | -                                       |
| Driven tool speed range                                             |        | rpm      | -                                       | -                                       | -                                       |

## Standard equipment (ROMI C 420 / ROMI C 510 / ROMI C 620 / ROMI C 680)

- Automatic centralized lubricating system with line filter and oil level sensor
- CE safety regulation compliance (for European Community only)
- CNC Siemens Sinumerik 828D sl, with 10.4" LCD color monitor (ROMI C 420 / ROMI C 510 / ROMI C 620 / ROMI C 680)
- Complete electrical installation for 220 Vca, 50 / 60 Hz (ROMI C 420 / ROMI C 510) (USA and other markets)
- Complete electrical installation for 380 Vca, 50 / 60 Hz (ROMI C 620 / ROMI C 680) (USA and other markets)
- Complete electrical installation for 400 Vca, 50 / 60 Hz (CE market) (ROMI C 420 / ROMI C 510 / ROMI C 620 / ROMI C 680)
- Complete coolant system with reservoir and pump (2 bar):
  - 170 liters for 1,000 mm between centers (ROMI C 420)
  - 220 liters for 1,500 mm between centers (ROMI C 510)
- Complete coolant system with reservoir with two pumps available for mandatory choice (2 bar or 7 bar) (ROMI C 620):
  - 180 liters for 1,000 mm (39.37") between centers (ROMI C 620)
  - 230 liters for 2,000 mm (78.74") between centers (ROMI C 620 / ROMI C 680)
  - 350 liters for 3,000 mm (118") between centers (ROMI C 680)
- Fully enclosed splash guard, door with safety window interlocked by electrical safety switch
- Removable chip box
- Sealed worklight
- Set of leveling screws and nuts
- Set of manuals on CD
- Set of wrenches for machine operation
- Standard colors: texturized epoxy enamel Munsell blue 10B-3/4 and texturized epoxy gray Ral 7035
- Tailstock with body positioning dragged by saddle, manually operated quill (dry tip) MT-5 (ROMI C 620 / ROMI C 680)
- Tailstock with manual body positioning manually operated quill (dry tip) MT-4 (ROMI C 420 / ROMI C 510)

## Optional equipment (ROMI C 420 / ROMI C 510 / ROMI C 620 / ROMI C 680)

- 72 positions indexing (50 degrees) (ROMI C 510) (A)
- 72 positions indexing for geared headstock (ROMI C 620) (A)
- Air conditioning for electrical cabinet
- Electrical adaptation for 380 Vca or 390 ~ 480Vca, 50 / 60Hz (ROMI C 420 / ROMI C 510)
- Autotransformer 200 to 250 Vca or 360 ~ 480 Vca, 50 / 60 Hz (USA and other markets) (ROMI C 620 / ROMI C 680)
- Automatic operated tailstock quill, actuated by foot switch, with MT-4 live center (ROMI C 420 / ROMI C 510) or MT-5 live center (ROMI C 620 / ROMI C 680), pneumatic (ROMI C 420 / ROMI C 510) or hydraulic (ROMI C 420 / ROMI C 510 / ROMI C 610 / ROMI C 680) in place of standard (hydraulics and foot switch included) (A)
- Brake for direct drive headstock (only for positioning stop) (ROMI C 510 / ROMI C 620) (A)
- Transversal hinged belt chip conveyor (TCE)
- Chip conveyor interface
- Transversal Drag Belt chip conveyor (TCA) (ROMI C 420)
- Coolant pump 2 bar or 7 bar (ROMI C 620 / ROMI C 680)
- Coolant pump 7 bar (ROMI C 510)
- Generic interface with miscellaneous functions (4 M codes)
- Hydraulic power unit
- Live center MT- 4 (ROMI C 420 / ROMI C 510) or live center MT- 5 (ROMI C 620)
- Manually operated tailstock quill with built-in bearing and MT-5 quill taper hole, body positioning dragged by saddle, in place of standard (ROMI C 680)
- Oil skimmer
- Rear centralizing ring with Ø 104 mm (4.09") or Ø 172 mm (6.77") hole (ROMI C 680)
- Remote diagnosis interface
- ROMI Manual Machining Package - RMMP, configured by control apron with two electronic handwheels for both X and Z axes, joystick switches and an user friendly Siemens software "Manual Machine Plus"
- Set of hard or soft jaws for hydraulic and universal chuck (ROMI C 620 / ROMI C 680)
- Set of hard or soft jaws for pneumatic, hydraulic and universal chuck (ROMI C 420 / ROMI C 510)
- Tailstock drag device (ROMI C 510)
- Wash gun with additional pump (ROMI C 420 / ROMI C 510 / ROMI C 620)
- Ø 170 mm (6.7") (ASA A2-5") pneumatic operated chuck, bar capacity Ø 39 mm and pneumatic cylinder (ROMI C 420) (USA market)
- Ø 215 mm (8.4") (ASA A2-5") pneumatic operated chuck, bar capacity Ø 52 mm and hydraulic cylinder (ROMI C 420) (USA market)
- Ø 215 mm (8.4") (ASA A2-6") pneumatic operated chuck, bar capacity Ø 52 mm and hydraulic cylinder (ROMI C 510) (USA market)
- Ø 250 mm (10") (ASA A2-6" or ASA A2-8") pneumatic operated chuck, bar capacity Ø 64 mm and hydraulic cylinder (ROMI C 510) (USA market)
- Ø 165 mm (6.5") (ASA A2-5") hydraulically operated chuck, bar capacity Ø 42 mm and hydraulic cylinder (ROMI C 420) (A)
- Ø 210 mm (8") (ASA A2-5") hydraulically operated chuck, bar capacity Ø 42 mm and hydraulic cylinder (ROMI C 420) (A)
- Ø 210 mm (8") (ASA A2-6") hydraulically operated chuck, bar capacity Ø 51 mm and hydraulic cylinder (ROMI C 510) (A)
- Ø 250 mm (10") (ASA A2-6") hydraulically operated chuck, bar capacity Ø 51 mm and hydraulic cylinder (ROMI C 510) (A)
- Ø 250 mm (10") (ASA A2-8") hydraulically operated chuck, bar capacity Ø 64 mm (Ø 2.5") and hydraulic cylinder (ROMI C 510 / ROMI C 620) (A)
- Ø 315 mm (Ø 12.4") (ASA A2-8") hydraulically operated chuck, bar capacity Ø 64 mm (Ø 2.5") and hydraulic cylinder (ROMI C 620) (A)
- Ø 315 mm (Ø 12.4") (ASA A2-8") hydraulically operated chuck, bar capacity Ø 90 mm (Ø 3.5") and hydraulic cylinder (ROMI C 620) (A)
- Ø 254 mm (10") (ASA A2-8") hydraulically operated chuck, bar capacity Ø 64 mm (Ø 2.5") or Ø 72 mm (Ø 2.8") and hydraulic cylinder (ROMI C 680) (A)
- Ø 315 mm (Ø 12.4") (ASA A2-8") hydraulically operated chuck, bar capacity Ø 90 mm (Ø 3.5") and hydraulic cylinder (ROMI C 680) (A)
- Ø 165 mm (Ø 6.3") universal chuck, with set of three hard jaws or reversible jaws (ASA A2-5") (ROMI C 420)
- Ø 200 mm (Ø 7.9") universal chuck, with set of three hard jaws (ASA A2-5") (ROMI C 420)
- Ø 200 mm (Ø 7.9") universal chuck, with set of three reversible jaws (ASA A2-5") (ROMI C 510)
- Ø 250 mm (Ø 10") (ASA A2-6") 4-jaws independent chuck, thru-hole Ø 65 mm (Ø 2.16") (ROMI C 510)
- Ø 250 mm (Ø 9.8") universal chuck, with set of three reversible jaws (ASA A2-6" or ASA A2-8") (ROMI C 510)
- Ø 250 mm (Ø 9.8") universal chuck, with set of three reversible jaws (ASA A2-8") (ROMI C 620)
- Ø 254 mm (Ø 10") universal chuck, with set of three reversible jaws (ASA A2-8") (ROMI C 680)
- Ø 315 mm (Ø 10") (ASA A2-6" or ASA A2-8") 4-jaws independent chuck, thru-hole Ø 80 mm (Ø 3.0") (ROMI C 510)
- Ø 315 mm (Ø 12.4") (ASA A2-8") 4-jaws independent chuck, thru-hole Ø 80 mm (Ø 3.15") (ROMI C 620)
- Ø 315 mm (Ø 12.4") universal chuck, with set of three reversible jaws (ASA A2-8") (ROMI C 620)
- Ø 315 mm (Ø 12.4") universal chuck, with set of three reversible jaws (ASA A2-8") (ROMI C 680)
- Ø 400 mm (Ø 15.7") (ASA A2-8") 4-jaws independent chuck, thru-hole Ø 100 mm (Ø 3.9") (ROMI C 510)
- Ø 400 mm (Ø 15.7") (ASA A2-8") 4-jaws independent chuck, thru-hole Ø 100 mm (Ø 3.9") (ROMI C 620)
- Ø 500 mm (Ø 19.7") (ASA A2-8") 4-jaws independent chuck, thru-hole Ø 125 mm (Ø 4.9") (ROMI C 620)
- T-slotted face plate Ø 400 mm (Ø 15.7") - 375 rpm (ROMI C 420)
- 8 - station automatic disk turret, VDI-20 disk (ROMI C 420), VDI-30 disk (ROMI C 510) or VDI-40 disk (ROMI C 620 / ROMI C 680) (no tool holders included)
- 8 - station automatic disk turret, VDI-40 disk, for driven tools (ROMI C 620 / ROMI C 680) (no tool holders included)
- 8 - station disk type automatic turret, electrically driven standard disk with eight tool tighten lock, one facing tool holder (25 x 25 mm or 1 x 1"), two boring tool holder (Ø 32 mm or Ø 1 1/4"), five reduction sleeves: Ø 10, 12, 16, 20 and 25 or Ø 3/8, 1/2, 5/8, 3/4, 1" and one sleeve mt-1 (ROMI C 510)
- 8 - station disk type automatic turret, electrically driven standard disk with eight tool tighten block, one facing tool holder (25 x 25 mm or 1 x 1"), two boring tool holder (Ø 40 mm or Ø 1 1/2"), five reduction sleeves: Ø 16, 20, 25 and 32 or Ø 5/8, 3/4, 1 and 1 1/4" and one sleeve mt-2 (ROMI C 620 / ROMI C 680)
- 8 - station disk type automatic turret, electrically driven, standard disk with eight tool tighten block, one facing tool holder (25 x 25 mm or 1 x 1"), two boring tool holder (Ø 25 mm or 1"), five reduction sleeves: Ø 8, 10, 12, 16, and 20 mm or Ø 5/16, 3/8, 1/2, 5/8, 3/4" and one sleeve mt-1 (ROMI C 420)
- 8 - station manual square head turret (ROMI C 420)
- Gang-tooling plate, with 1 turning tool holder (20 x 20 mm or 3/4 x 3/4"), 2 facing tool holder (20 x 20 mm or 3/4 x 3/4"), 2 boring bar holder (Ø 1" or Ø 25 mm) and 3 reduction sleeves (Ø 12, 16, 20 mm or Ø 1/2, 5/8, 3/4") and drill socket MT-1 (ROMI C 420)
- Individual adapter plate Parat RD - 2 (ROMI C 420), Parat RD - 3 (ROMI C 510 / ROMI C 620) (CE market) or Parat RD - 4 (ROMI C 680), with or without internal coolant
- Mechanical bar puller cap. Ø 8 to 50 mm (5/16 to 2"), 20 x 20 (3/4 x 3/4") or 25 x 25 mm (1" x 1"), without built-in cut-off tool holder, or with built-in cut-off tool holder (ROMI C 420 / ROMI C 510)
- Quick change toolholder base (2 faces), with one boring bar holder (Ø 25 mm or 1") and one turning tool holder (25 x 25 mm or 1" x 1") (ROMI C 420)
- Quick change toolholder base (3 faces), with one boring bar holder (Ø 25 mm or 1") and two turning tool holder (25 x 25 mm or 1" x 1") (ROMI C 420 / ROMI C 510)
- Quick change toolholder base (3 faces), with one boring bar holder (Ø 32 mm or 1 1/4") and two turning tool holder (32 x 32 mm or 1 1/4 x 1 1/4") ROMI C 620 / ROMI C 680)
- Rear tool holder, with a t-slot base, one turning tool holder (20 x 20 mm or 3/4 x 3/4") and one boring bar holder (Ø 1" or Ø 25 mm) (ROMI C 420)
- Rear tool holder, with a t-slot base, one turning tool holder (25 x 25 mm or 1 x 1") and one boring bar holder (Ø 32 mm or Ø 1 1/4") (ROMI C 510)
- Rear tool holder, with a t-slot base, one turning tool holder (25 x 25 mm or 1 x 1") and one boring bar holder (Ø 40 mm or Ø 1 1/4") (ROMI C 620 / ROMI C 680)
- WTO tool holder, for VDI - 50 tool holders, for static tools and driven tools (ROMI C 510)
- 4 - station vertical automatic turret, electrically driven, with one radial tool holder 25 x 25 mm (1 x 1"), one boring bar holder Ø 40 mm (1 1/2"), three boring bar holder Ø 40 mm (Ø 1 1/2") / turning 25 x 25 mm (1 x 1"), four reduction sleeves: Ø 16, 20, 25 and 32mm (Ø 5/8, 3/4, 1 and 1 1/4") and one sleeve MT-2

- Follow rest with rollers, Ø 12 to Ø 50 mm (Ø 1/2" to Ø 2") capacity (ROMI C 420)
  - Follow rest with rollers, Ø 15 to Ø 80 mm (Ø 5/8 to Ø 3 1/8") capacity (ROMI C 510)
  - Steady rest (open) with bronze tips, Ø 8 to Ø 80 mm (Ø 5/16" to Ø 3 1/8") capacity (ROMI C 420)
    - Additional set of bronze tips Ø 8 to Ø 80 mm Ø 5/16" to Ø 3 1/8" capacity
  - Steady rest (open) with bronze tips, Ø 8 to Ø 80 mm (Ø 5/16" to Ø 3 1/8") capacity (ROMI C 510)
  - Steady rest (closed) with bronze tips, Ø 8 to Ø 80 mm (Ø 5/16" to Ø 3 1/8") capacity (ROMI C 420 / ROMI C 510)
    - Additional set of bronze tips Ø 80 to Ø 152 mm (Ø 3 1/8" to Ø 6") capacity
  - Additional set of rollers Ø 8 to Ø 80 mm (Ø 5/16" to Ø 3 1/8") capacity
  - Additional set of rollers Ø 80 to Ø 152 mm (Ø 3 1/8" to Ø 6") capacity
  - Steady rest closed Ø 20 to Ø 255 mm (8" to Ø 10") capacity (bronze tips or rollers not included) (ROMI C 620 / ROMI C 680)
    - Additional set of bronze tips Ø 20 to Ø 255 mm (Ø 0.8" to Ø 10") capacity
    - Additional set of rollers Ø 20 to Ø 255 mm (Ø 0.8" to Ø 10") capacity
  - Steady rest (U type) with rollers, Ø 30 to Ø 345 mm (Ø 1.18" to Ø 13.6") capacity (no rollers included) (ROMI C 620)
  - Set of rollers Ø 30 to Ø 200 mm (Ø 1.18" to Ø 7.87") capacity
  - Set of rollers Ø 155 to Ø 345 mm (Ø 6.10" to Ø 13.6") capacity
  - Steady rest (U type) with rollers, Ø 102 to Ø 406 mm (Ø 4" to Ø 8") capacity (ROMI C 680)
    - Additional set of rollers Ø 102 to Ø 203 mm (Ø 4" to Ø 8") capacity
    - Additional set of rollers Ø 203 to Ø 305 mm (Ø 8" to Ø 12") capacity
    - Additional set of rollers Ø 305 to Ø 406 mm (Ø 12" to Ø 16") capacity
- (A) Requires the accessory "hydraulic power unit"

## Standard equipment (ROMI C 830 / ROMI C 1000 / ROMI C 1000BB)

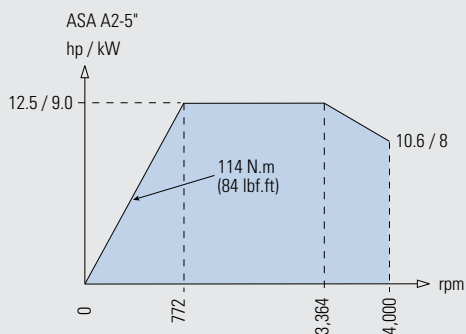
- Automatic lubrication system with line filter and oil level sensor
- CE safety regulation compliance (for European Community only)
- CNC Siemens 828D sl-PRO, with LCD 10.4" color monitor
- Complete documentation for Romi product on CD
- Complete electrical installation for 380 Vca (USA and other markets), 50 / 60 Hz
- Complete electrical installation for 400 Vca (CE market), 50 / 60 Hz
- Coolant and lubricating system for the headstock
- Coolant system with two coolant pumps for mandatory choice (2 bar or 7 bar)
- Fully enclosed splash guard, additional door with safety window interlocked by electrical safety switch
- Sealed worklight
- Set of wrenches for machine operation
- Set of levelling screws and nuts
- Standard colors: Texturized Epoxy Enamel Munsell Blue 10B-3/4 and Texturized Epoxy Gray RAL 7035
- Tailstock with manually operated quill with built-in bearing and MT-5 quill taper hole

## Optional equipment (ROMI C 830 / ROMI C 1000 / ROMI C 1000BB)

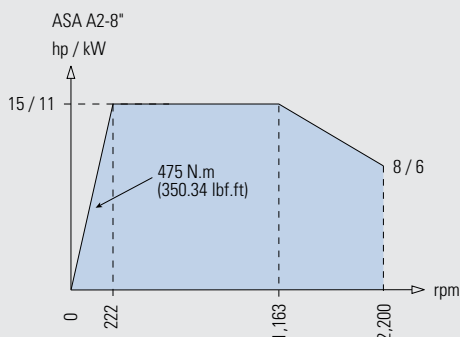
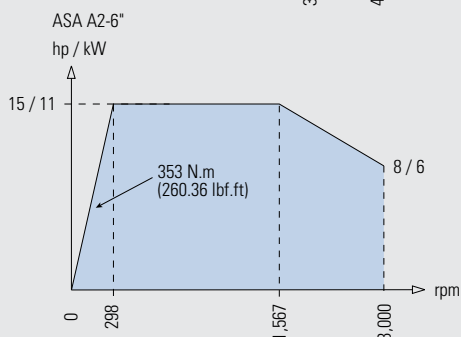
- 72 positions indexing (5°)
  - Air conditioning for electrical cabinet
  - Autotransformer for 200 ~ 250 Vac or for 360 ~ 480 Vac, 50 / 60 Hz
  - Box for chips collecting
  - Coolant system with two coolant pumps for mandatory choice (2 bar / 29 psi or 7 bar / 102psi)
  - Hydraulic operated tailstock quill with MT - 5 live center and foot switch included
  - Longitudinal hinged belt type chip conveyor (TCE)
  - M code external interface with miscellaneous functions (4 M codes)
  - Oil skimmer
  - Rear centralizing ring with Ø 160 mm (Ø 6.30") ASA A2-11" or Ø 320 mm (Ø 12.60") or Ø 375 mm (Ø 14.76") - ASA A2-20"
  - Romi manual machining package configured by control apron with two electronic handwheels for both X and Z axes, joystick switches and an user friendly Siemens software "Manual Machine Plus"
  - Steady rest U type, Ø 100 to Ø 440 mm (Ø 4 to Ø 17.32") capacity (no rollers included)
    - Set of rollers for Ø 100 to Ø 305 mm (Ø 4 to Ø 12") Ø capacity
    - Set of rollers for Ø 292 to Ø 440 mm (Ø 11.7" to Ø 17.6") Ø capacity
  - 3 - jaws hydraulically operated chuck, millimeters serration 1.5 mm x 60°, foot switch included:
    - Ø 315 mm (Ø 12"), with thru-hole Ø 90 mm (Ø 3.54") (ASA A2-11")
    - Ø 400 mm (Ø 15.7"), with thru-hole Ø 118 mm (Ø 4.65") (ASA A2-11")
  - 3 - jaws universal chuck (front / rear):
    - Ø 400 mm (Ø 15.7") (steel), thru-hole Ø 136 mm (5.35"), 1,800 rpm max - ASA A2-11"
    - Ø 500 mm (Ø 19.7") (cast iron), with thru-hole Ø 190 mm (7.48"), 700 rpm max. - ASA A2-11"
    - Ø 500 mm (Ø 19.7") (cast iron), with thru-hole Ø 190 mm (7.48"), 700 rpm max. - ASA A2-15"
    - Ø 630 mm (Ø 24.8") (cast iron), with thru-hole Ø 252 mm (Ø 9.92"), 1000 rpm max. - ASA A2-15"
    - Ø 630 mm (Ø 24.8") (cast iron), with thru-hole Ø 252 mm (Ø 9.92"), 500 rpm max. - ASA A2-20"
    - Ø 800 mm (Ø 31.5") (cast iron), with thru-hole Ø 320 mm (Ø 12.6"), 300 rpm max. - ASA A2-20"
  - 4 - jaws independents chuck:
    - Ø 550 mm (Ø 21.65") (cast iron), Ø 160 mm (Ø 6.3") thru-hole, 250 rpm max - ASA A2-11"
    - Ø 600 mm (Ø 23.6") (cast iron), Ø 160 mm (Ø 6.3") thru-hole, 970 rpm max - ASA A2-15"
    - Ø 700 mm (Ø 27.56") (cast iron), Ø 171 mm (Ø 6.73") thru-hole, 200 rpm max - ASA A2-11"
    - Ø 720 mm (Ø 28.35") (cast iron), Ø 375 mm (Ø 14.76") thru-hole, 600 rpm max - ASA A2-20" (\*\*)
    - Ø 800 mm (Ø 31.37") (cast iron), Ø 320 mm (Ø 12.6") thru-hole, 200 rpm max - ASA A2-20" (\*)
  - 4 - jaws independents rear chuck (ROMI C 830):
    - Ø 550 mm (21.65") (cast iron), thru-hole Ø 160 mm (6.3"), 250 rpm max.
    - Ø 700 mm (27.56") (cast iron), thru-hole Ø 171 mm (6.73"), 200 rpm max.
    - Ø 600 mm (23.62") (Steel), thru-hole Ø 267 mm (10.51"), 970 rpm max., including one additional set of jaws for clamping parts with Ø 170 to 54 mm - A2-15"
  - 4 - jaws independents rear chuck (ROMI C 1000):
    - Ø 800 mm (31.5") (Cast Iron), thru-hole Ø 320 mm (12.6"), 200 rpm max. (ROMI C 1000)
  - 4 - jaws independents chuck (ROMI C 1000BB):
    - Ø 720 mm (28.35") (Steel), thru-hole Ø 375 mm (14.76"), 873 rpm max., including one additional set of jaws for clamping parts with diameter 280 to 70 mm - A2-20"
  - Quick change tool holder (tool holders and reduction sleeves not included)
  - Extra tooling for quick change tool holders
    - Turning tool holder 40 x 40 mm (1 1/2" x 1 1/2")
    - Boring bar holder Ø 50 mm (Ø 2")
    - Boring bar holder Ø 60 mm (Ø 2 3/8")
  - 4 - station manual square turret (tool holders and reduction sleeves not included)
    - Boring bar holder Ø 60 mm (2 3/8")
    - Reduction sleeve Ø 25 mm (1"), Ø 32 mm (1 1/4"), Ø 40 mm (1 1/2") and Ø 50 mm (2")
  - 4 - station electric turret (tool holders and reduction sleeves not included)
  - Extra tooling for 4 station electric turret tool holders
    - Turning tool holder 32 x 32 mm (1 1/4" x 1 1/4")
    - Facing tool holder 32 x 32 mm (1 1/4" x 1 1/4")
    - Boring bar holder Ø 50 (Ø 2") mm
  - Adaptor sleeve Ø 10 mm (Ø 3/8"), Ø 12 mm (Ø 1/2"), Ø 16 mm (Ø 5/8"), Ø 20 mm (Ø 3/4"), Ø 25 mm (1"), Ø 30 mm (1 1/8"), Ø 32 mm (Ø 1 1/4") and Ø 40 mm (Ø 1 1/2")
  - Double boring bar holder Ø 60 mm (Ø 2 3/8")
  - Adaptor sleeve Ø 12 mm (Ø 1/2"), Ø 16 mm (Ø 5/8"), Ø 20 mm (3/4"), Ø 25 mm (1"), Ø 30 mm (Ø 1 1/8"), Ø 32 mm (1 1/4"), Ø 40 mm (Ø 1 1/2") and Ø 50 mm (2")
  - Boring bar holder Ø 80 mm (3 1/8")
  - Reduction sleeve Ø 32 mm (1 1/4"), Ø 40 mm (1 1/2"), Ø 50 mm (Ø 2") and Ø 60 mm (Ø 2 3/8")
  - 8 - station turret VDI-50 (tool holders and reduction sleeves not included)
  - Extra tooling for 8 station turret VDI-50:
    - Turning tool holder - short 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
    - Turning tool holder - long 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
    - Boring bar holder Ø 40 mm (Ø 1 1/2")
    - Facing tool holder 32 x 32 mm (1 1/4" x 1 1/4")
    - Boring bar holder with internal cooling Ø 40 mm (Ø 1 1/2")
  - 8 - station turret VDI-50 for driven tools (tool holders and reduction sleeves not included)
  - Extra tooling for 8 station turret VDI-50 for driven tools
    - Turning tool holder - short 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
    - Turning tool holder - long 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
    - Boring bar holder with internal cooling Ø 40 mm (Ø 1 1/2")
    - Facing tool holder 32 x 32 mm (1 1/4" x 1 1/4")
    - Boring bar holder Ø 40 mm (Ø 1 1/2")
    - Plug VDI-50 - Sealing plug
    - Radial rotating tool holder ER - 40 - Ø 4 mm to Ø 26 mm (DIN 6499)
    - Axial rotating tool holder ER - 40 - Ø 4 mm to Ø 26 mm (DIN 6499)
  - Wrench set for tool holders
- (\*) For ROMI C 1000 (ASA A2-20", thru - hole Ø 320 mm thru-hole)
- (\*\*) For ROMI C 1000BB (Big Bore)

## Power graphs - (ROMI C 420 / ROMI C 510 / ROMI C 620 / ROMI C 680) - 30 min rating

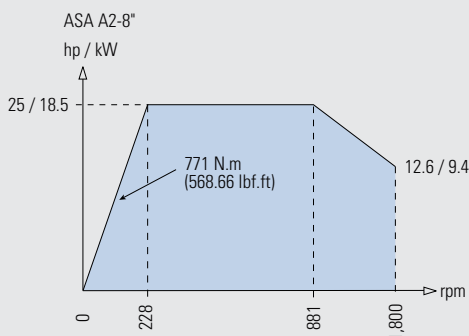
**ROMI C 420**



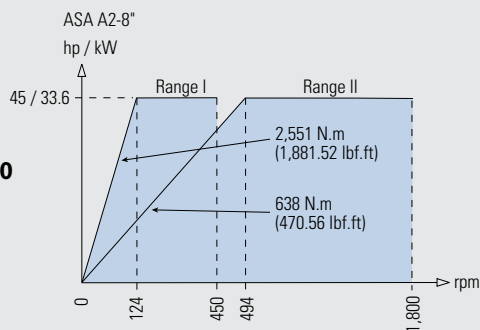
**ROMI C 510**



**ROMI C 620**

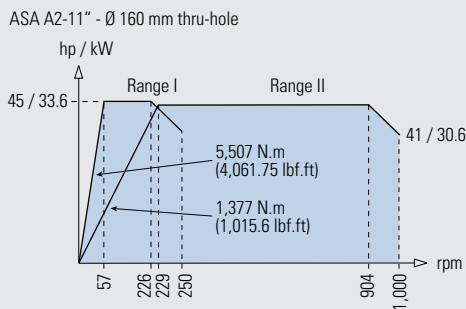


**ROMI C 680**

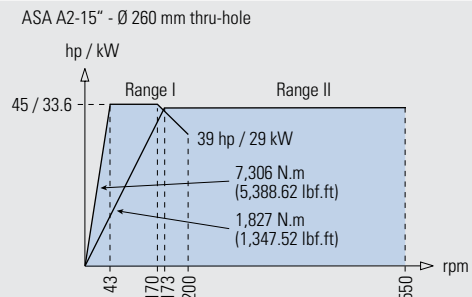


## Power graphs (ROMI C 830 / ROMI C 1000 / ROMI C 1000BB) - S6 - 40% rating

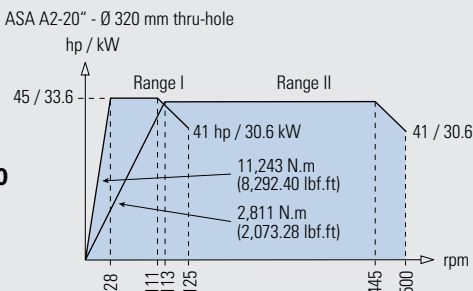
**ROMI C 830**



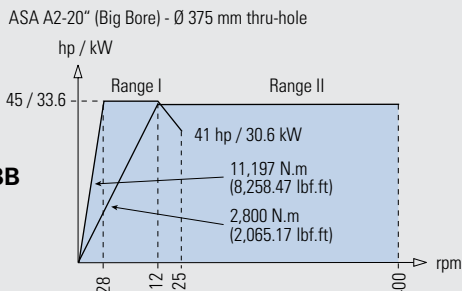
**ROMI C 830**



**ROMI C 1000**



**ROMI C 1000BB**

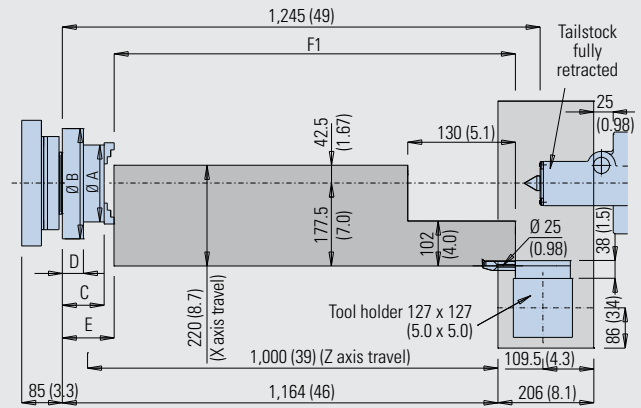
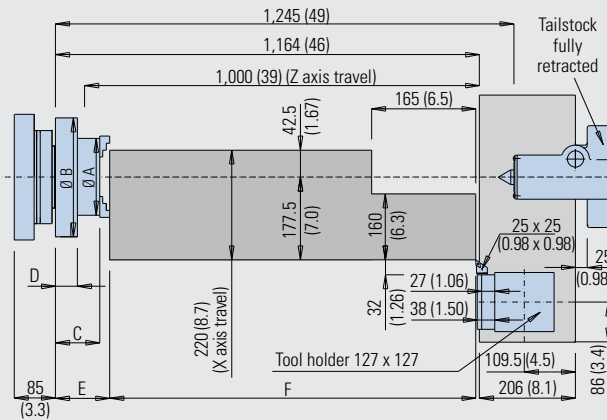


**ROMI C 420**

**Quick change tool holder**

External turning

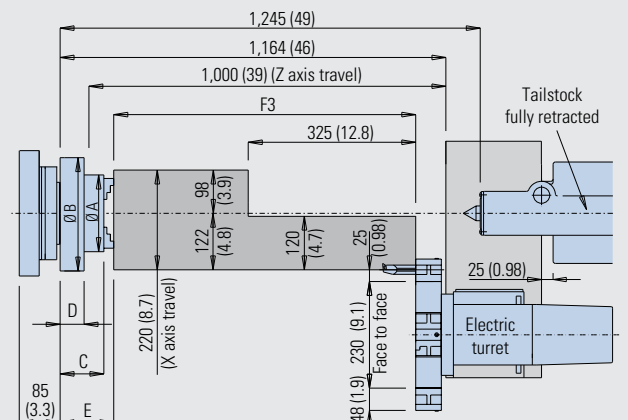
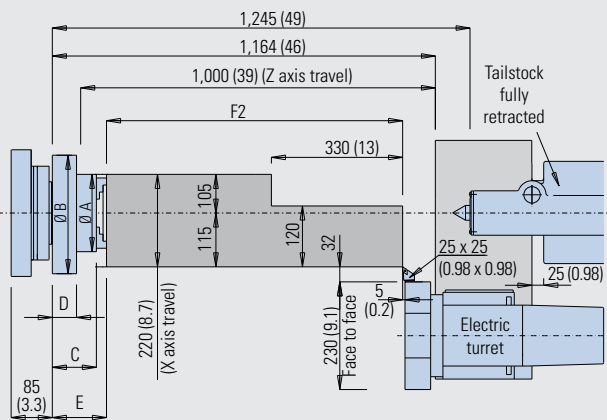
Internal turning



**8-station disk type automatic turret electrically driven - Romi disk**

External turning

Internal turning



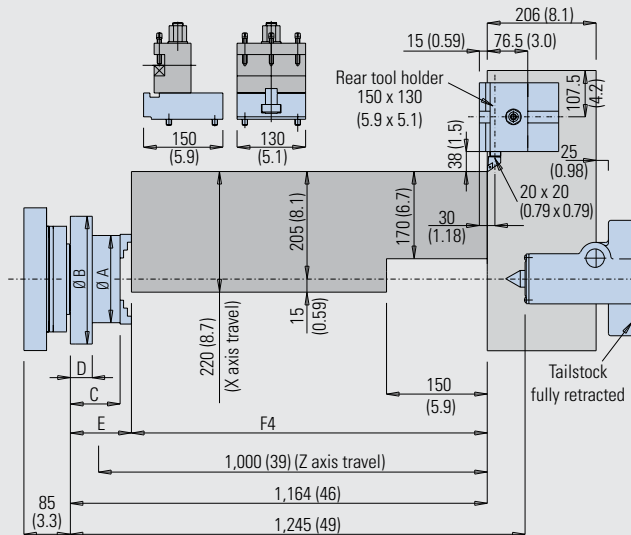
| Chuck model |                                       | A         | B         | C           | D         | E           | F            | F1           | F2         | F3         |
|-------------|---------------------------------------|-----------|-----------|-------------|-----------|-------------|--------------|--------------|------------|------------|
| ASA A2-5"   | 3 jaws universal chuck - Ø 165 mm (*) | 165 (6.5) | -         | 85.5 (3.4)  | -         | 128.5 (5.1) | 1,024.5 (40) | 1,072 (42)   | 965.5 (38) | 970.5 (38) |
|             | 3 jaws universal chuck - Ø 200 mm (*) | 200 (7.9) | -         | 104.5 (4.1) | -         | 149.5 (5.9) | 1,003.5 (40) | 1,051 (41)   | 944.5 (37) | 949.5 (37) |
|             | Pneumatic chuck - Ø 170 mm            | 170 (6.7) | 230 (9.1) | 150 (5.9)   | 100 (3.9) | 190 (7.5)   | 963 (38)     | 1,010.5 (40) | 904 (36)   | 909 (36)   |
|             | Pneumatic chuck - Ø 215 mm            | 215 (8.5) | 280 (11)  | 160 (6.3)   | 100 (3.9) | 210 (8.3)   | 943 (37)     | 990.5 (39)   | 884 (35)   | 889 (35)   |
|             | Hydraulic chuck - Ø 165 mm            | 165 (6.5) | -         | 94 (3.7)    | -         | 138 (5.4)   | 1,016 (40)   | 1,062.5 (42) | 956 (38)   | 961 (38)   |
|             | Hydraulic chuck - Ø 210 mm            | 210 (8.3) | -         | 111 (4.4)   | -         | 160 (6.3)   | 994 (39)     | 1,040.5 (41) | 934 (37)   | 939 (37)   |

(\*) With reversible jaws

## Rear tool holder

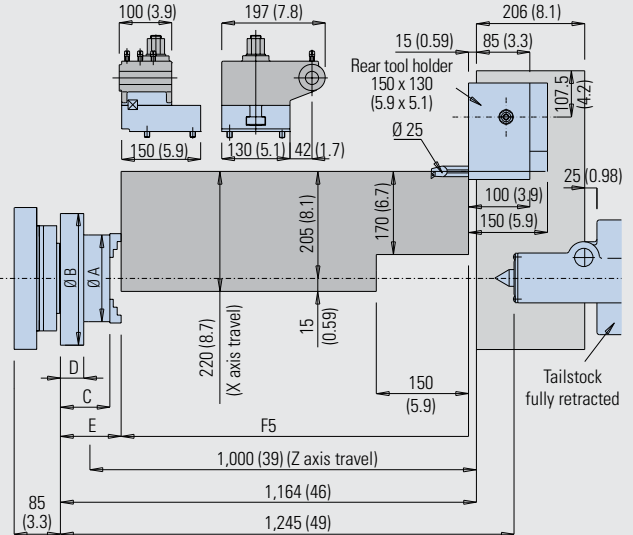
External turning

Rear tool holder - front and lateral view



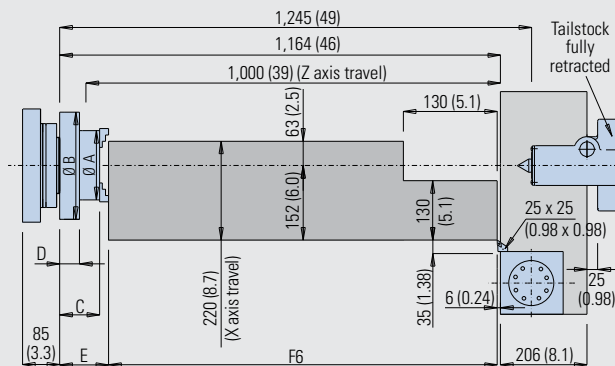
Internal turning

Rear tool holder - front and lateral view

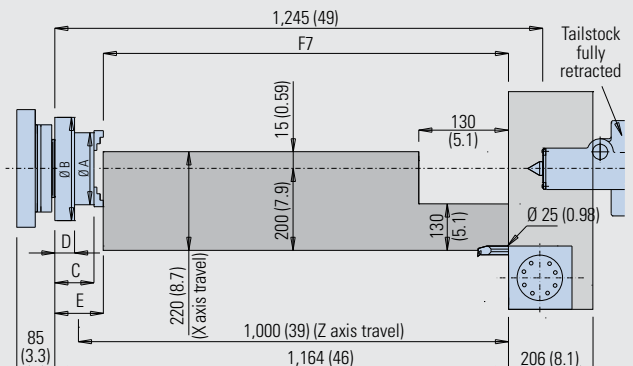


## Manual square turret

External turning



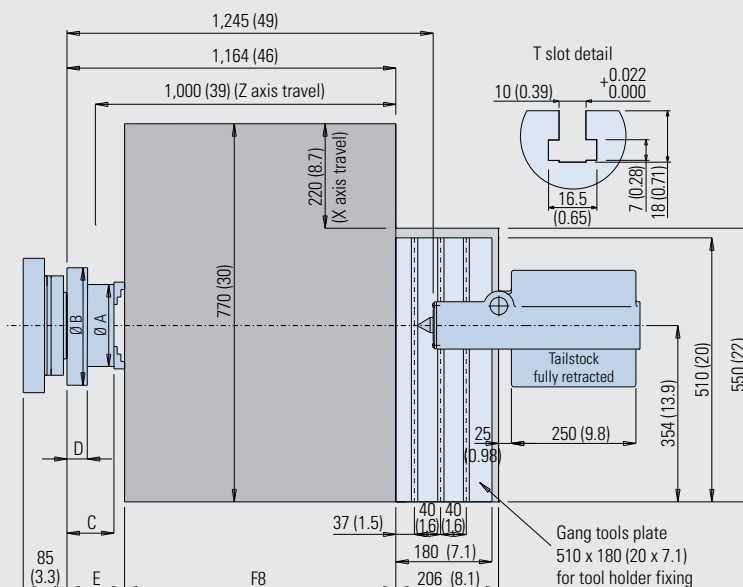
Internal turning



| Chuck model |                                       | A         | B         | C           | D         | E           | F4         | F5           | F6           | F7           |
|-------------|---------------------------------------|-----------|-----------|-------------|-----------|-------------|------------|--------------|--------------|--------------|
| ASA A2-5"   | 3 jaws universal chuck - Ø 165 mm (*) | 160 (6.3) | -         | 85.5 (3.4)  | -         | 128.5 (5.1) | 970.5 (38) | 1,020.5 (40) | 1,029.5 (41) | 1,035.5 (41) |
|             | 3 jaws universal chuck - Ø 200 mm (*) | 200 (7.9) | -         | 104.5 (4.1) | -         | 149.5 (5.9) | 949.5 (37) | 999.5 (39)   | 1,008.5 (40) | 1,014.5 (40) |
|             | Pneumatic chuck - Ø 170 mm            | 170 (6.7) | 230 (9.1) | 150 (5.9)   | 100 (3.9) | 190 (7.5)   | 974 (38)   | 959 (38)     | 968 (38)     | 974 (38)     |
|             | Pneumatic chuck - Ø 215 mm            | 215 (8.5) | 280 (11)  | 160 (6.3)   | 100 (3.9) | 210 (8.3)   | 954 (38)   | 939 (37)     | 948 (37)     | 954 (38)     |
|             | Hydraulic chuck - Ø 165 mm            | 165 (6.5) | -         | 94 (3.7)    | -         | 205 (8.1)   | 1,026 (40) | 944 (37)     | 953 (38)     | 959 (38)     |
|             | Hydraulic chuck - Ø 210 mm            | 210 (8.3) | -         | 111 (4.4)   | -         | 241 (9.5)   | 1,004 (40) | 908 (36)     | 917 (36)     | 923 (36)     |

(\*) With reversible jaws

## Gang tooling plate



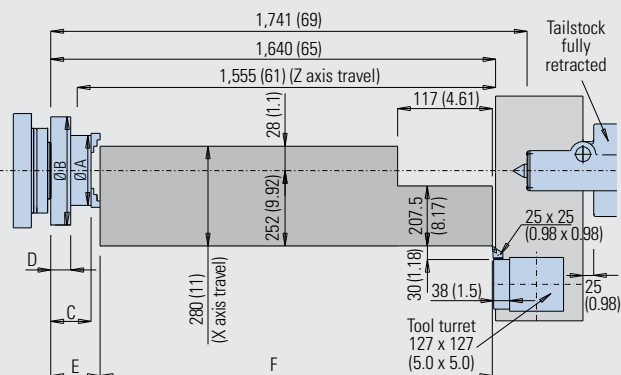
|           | Chuck model                           | A         | B         | C           | D         | E           | F8           |
|-----------|---------------------------------------|-----------|-----------|-------------|-----------|-------------|--------------|
| ASA A2-5" | 3 jaws universal chuck - Ø 165 mm (*) | 165 (6.5) | -         | 85.5 (3.4)  | -         | 128.5 (5.1) | 1,035.5 (41) |
|           | 3 jaws universal chuck - Ø 200 mm (*) | 200 (7.9) | -         | 104.5 (4.1) | -         | 149.5 (5.9) | 1,014.5 (40) |
|           | Pneumatic chuck - Ø 170 mm            | 170 (6.7) | 230 (9.1) | 150 (5.9)   | 100 (3.9) | 190 (7.5)   | 974 (38)     |
|           | Pneumatic chuck - Ø 215 mm            | 215 (8.5) | 280 (11)  | 160 (6.3)   | 100 (3.9) | 210 (8.3)   | 954 (38)     |
|           | Hydraulic chuck - Ø 165 mm            | 165 (6.5) | -         | 85 (3.3)    | -         | 205 (8.1)   | 959 (38)     |
|           | Hydraulic chuck - Ø 210 mm            | 210 (8.3) | -         | 111 (4.4)   | -         | 241 (9.5)   | 923 (36)     |

(\*) With reversible jaws

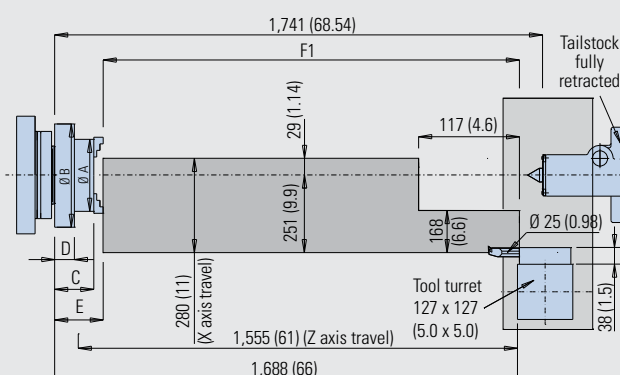
## ROMI C 510

## Quick change tool holder

## External turning

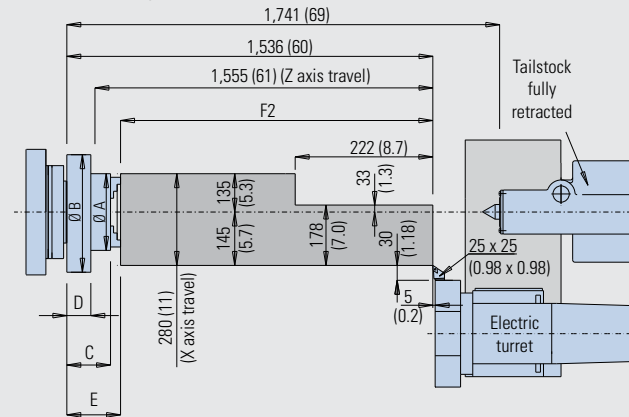


Internal turning

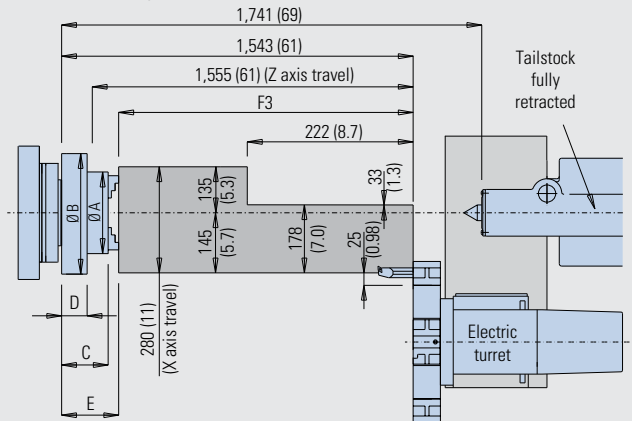


**8-station disk type automatic turret electrically driven - Romi disk**

External turning



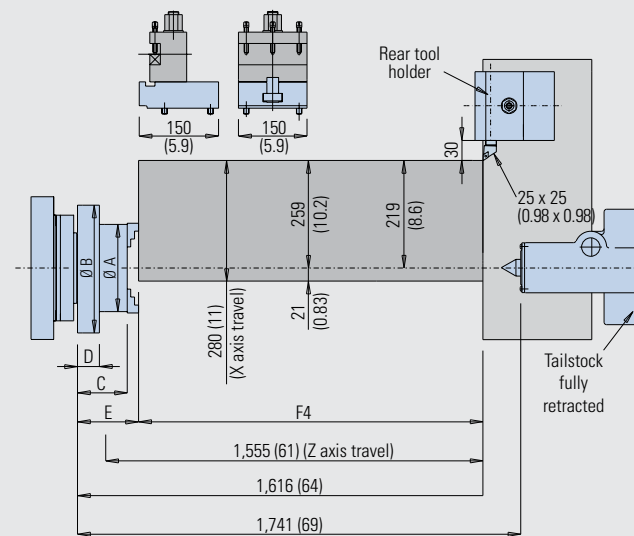
Internal turning



**Rear tool holder**

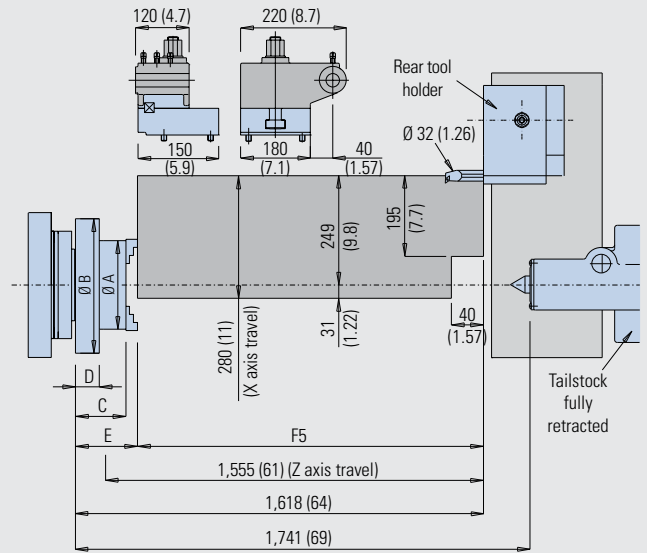
External turning

Rear tool holder - front and lateral view



Internal turning

Rear tool holder - front and lateral view



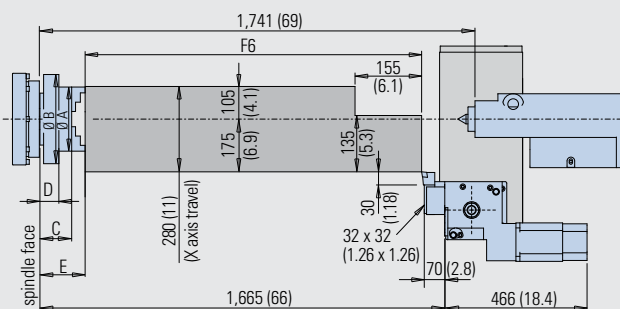
| Chuck model                           | A          | B          | C         | D         | E           | F            | F1           | F2           | F3           | F4           | F5           |
|---------------------------------------|------------|------------|-----------|-----------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 3 jaws universal chuck - Ø 200 mm (*) | 200 (7.9)  | -          | 113 (4.4) | -         | 157.5 (6.2) | 1,472.5 (58) | 1,530.5 (60) | 1,378.5 (54) | 1,385.5 (55) | 1,458.5 (57) | 1,460.5 (58) |
| 3 jaws universal chuck - Ø 250 mm (*) | 250 (9.8)  | -          | 109 (4.3) | -         | 162 (6.4)   | 1,468 (58)   | 1,526 (60)   | 1,374 (54)   | 1,381 (54)   | 1,454 (57)   | 1,456 (57)   |
| Pneumatic chuck - Ø 215 mm            | 215 (8.5)  | 280 (11)   | 160 (6.3) | 100 (3.9) | 210 (8.3)   | 1,420 (56)   | 1,478 (58)   | 1,326 (52)   | 1,333 (52)   | 1,406 (55)   | 1,408 (55)   |
| Pneumatic chuck - Ø 250 mm            | 250 (9.8)  | 350 (13.8) | 175 (6.9) | 120 (4.7) | 230 (9.1)   | 1,400 (55)   | 1,458 (57)   | 1,306 (51)   | 1,313 (52)   | 1,386 (55)   | 1,388 (55)   |
| Hydraulic chuck - Ø 210 mm            | 210 (8.3)  | -          | 104 (4.1) | -         | 153 (6)     | 1,477 (58)   | 1,535 (60)   | 1,383 (54)   | 1,390 (55)   | 1,463 (58)   | 1,465 (58)   |
| Hydraulic chuck - Ø 250 mm            | 250 (9.8)  | -          | 124 (4.9) | -         | 184 (7.2)   | 1,446 (57)   | 1,504 (59)   | 1,352 (53)   | 1,359 (54)   | 1,432 (56)   | 1,434 (56)   |
| 4 jaws independent chuck - Ø 250 mm   | 250 (9.8)  | -          | 120 (4.7) | -         | 160 (6.3)   | 1,480 (58)   | 1,528 (60)   | 1,376 (54)   | 1,383 (54)   | 1,456 (57)   | 1,458 (57)   |
| 4 jaws independent chuck - Ø 315 mm   | 315 (12.4) | -          | 118 (4.6) | -         | 168 (6.6)   | 1,472 (58)   | 1,520 (60)   | 1,368 (54)   | 1,375 (54)   | 1,448 (57)   | 1,450 (57)   |
| 3 jaws universal chuck - Ø 250 mm (*) | 250 (9.8)  | -          | 115 (4.5) | -         | 168 (6.6)   | 1,462 (58)   | 1,520 (60)   | 1,368 (54)   | 1,375 (54)   | 1,448 (57)   | 1,450 (57)   |
| Pneumatic chuck - Ø 250 mm            | 250 (9.8)  | 350 (13.8) | 175 (6.9) | 120 (4.7) | 230 (9.1)   | 1,400 (55)   | 1,458 (57)   | 1,306 (51)   | 1,313 (52)   | 1,386 (55)   | 1,388 (55)   |
| Hydraulic chuck - Ø 250 mm            | 250 (9.8)  | -          | 119 (4.7) | -         | 179 (7)     | 1,451 (57)   | 1,509 (59)   | 1,357 (53)   | 1,364 (54)   | 1,437 (57)   | 1,439 (57)   |
| 4 jaws independent chuck - Ø 315 mm   | 315 (12.4) | -          | 133 (5.2) | -         | 183 (7.2)   | 1,457 (57)   | 1,505 (59)   | 1,353 (53)   | 1,360 (54)   | 1,433 (56)   | 1,435 (56)   |
| 4 jaws independent chuck - Ø 400 mm   | 400 (15.7) | -          | 130 (5.1) | -         | 180 (7.1)   | 1,460 (57)   | 1,508 (59)   | 1,356 (53)   | 1,363 (54)   | 1,436 (57)   | 1,438 (57)   |

(\*) With reversible jaws

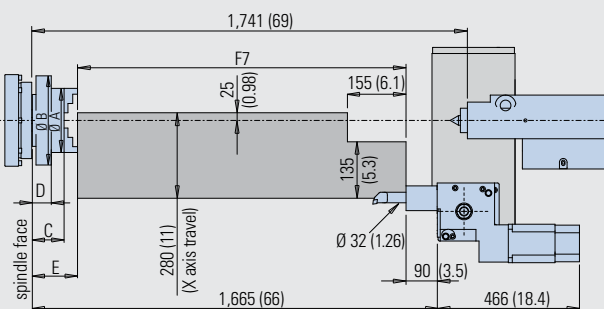
## Work layout - dimensions in mm (in)

### WTO tool holder for static and driven tool (VDI-50 tool holder)

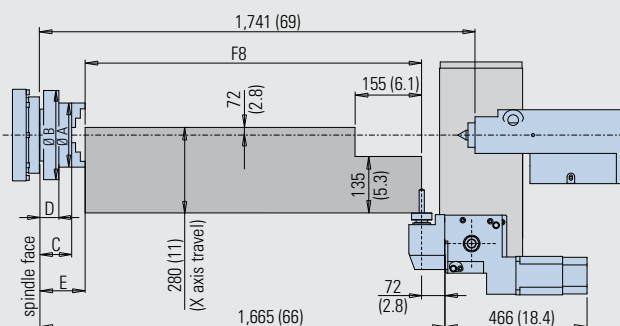
External turning



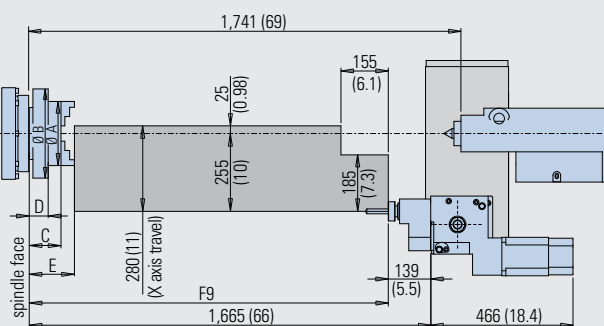
Internal turning



Radial driven tool machining



Axial driven tool machining



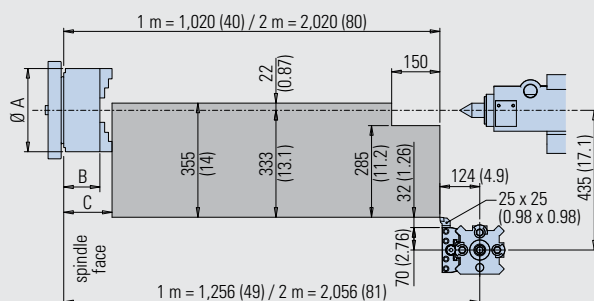
|           | Chuck model                           | A          | B          | C           | D         | E           | F6           | F7           | F8           | F9           |
|-----------|---------------------------------------|------------|------------|-------------|-----------|-------------|--------------|--------------|--------------|--------------|
| ASA A2-6" | 3 jaws universal chuck - Ø 200 mm (*) | 200 (7.9)  | -          | 112.5 (4.4) | -         | 157.5 (6.2) | 1,437.5 (57) | 1,417.5 (56) | 1,435.5 (57) | 1,368.5 (54) |
|           | 3 jaws universal chuck - Ø 250 mm (*) | 250 (9.8)  | -          | 109 (4.3)   | -         | 162 (6.4)   | 1,433 (56)   | 1,413 (56)   | 1,431 (56)   | 1,364 (54)   |
|           | Pneumatic chuck - Ø 215 mm            | 215 (8.5)  | 280 (11)   | 160 (6.3)   | 100 (3.9) | 210 (8.3)   | 1,385 (55)   | 1,365 (54)   | 1,383 (54)   | 1,316 (52)   |
|           | Pneumatic chuck - Ø 250 mm            | 250 (9.8)  | 350 (13.8) | 175 (6.9)   | 120 (4.7) | 230 (9.1)   | 1,365 (54)   | 1,345 (53)   | 1,363 (54)   | 1,305 (51)   |
|           | Hydraulic chuck - Ø 210 mm            | 210 (8.3)  | -          | 104 (4.1)   | -         | 153 (6)     | 1,442 (57)   | 1,422 (56)   | 1,440 (57)   | 1,373 (54)   |
|           | Hydraulic chuck - Ø 250 mm            | 250 (9.8)  | -          | 124 (4.9)   | -         | 184 (7.2)   | 1,411 (56)   | 1,391 (55)   | 1,409 (55)   | 1,342 (53)   |
|           | 4 jaws independent chuck - Ø 250 mm   | 250 (9.8)  | -          | 120 (4.7)   | -         | 160 (6.3)   | 1,435 (56)   | 1,415 (56)   | 1,433 (56)   | 1,366 (54)   |
| ASA A2-8" | 4 jaws independent chuck - Ø 315 mm   | 315 (12.4) | -          | 118 (4.6)   | -         | 168 (6.6)   | 1,427 (56)   | 1,407 (55)   | 1,425 (56)   | 1,358 (53)   |
|           | 3 jaws universal chuck - Ø 250 mm (*) | 250 (9.8)  | -          | 115 (4.5)   | -         | 168 (6.6)   | 1,427 (56)   | 1,407 (55)   | 1,425 (56)   | 1,358 (53)   |
|           | Pneumatic chuck - Ø 250 mm            | 250 (9.8)  | 350 (13.8) | 175 (6.9)   | 120 (4.7) | 230 (9.1)   | 1,365 (54)   | 1,345 (53)   | 1,363 (54)   | 1,305 (51)   |
|           | Hydraulic chuck - Ø 250 mm            | 250 (9.8)  | -          | 119 (4.7)   | -         | 179 (7)     | 1,416 (56)   | 1,396 (55)   | 1,414 (56)   | 1,347 (53)   |
|           | 4 jaws independent chuck - Ø 315 mm   | 315 (12.4) | -          | 133 (5.2)   | -         | 183 (7.2)   | 1,412 (56)   | 1,392 (55)   | 1,410 (56)   | 1,343 (53)   |
|           | 4 jaws independent chuck - Ø 400 mm   | 400 (15.7) | -          | 130 (5.1)   | -         | 180 (7.1)   | 1,415 (56)   | 1,395 (55)   | 1,413 (56)   | 1,346 (53)   |

(\*) With reversible jaws

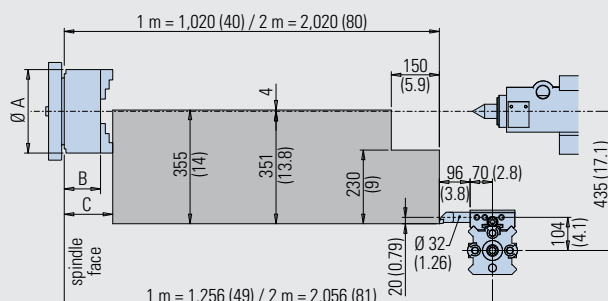
**ROMI C 620**

**Quick change tool holder**

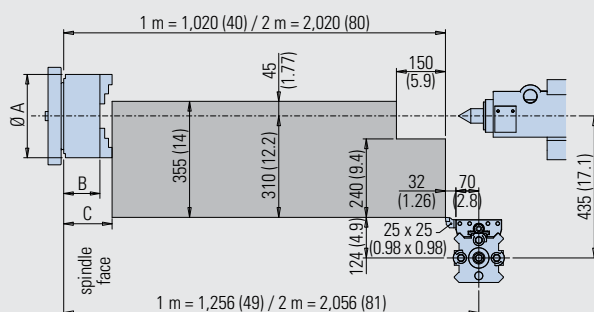
External turning



Internal turning

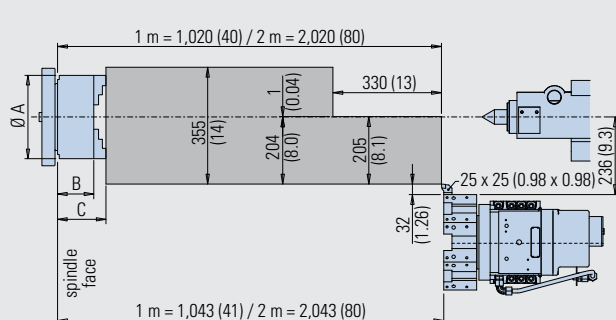


Face turning

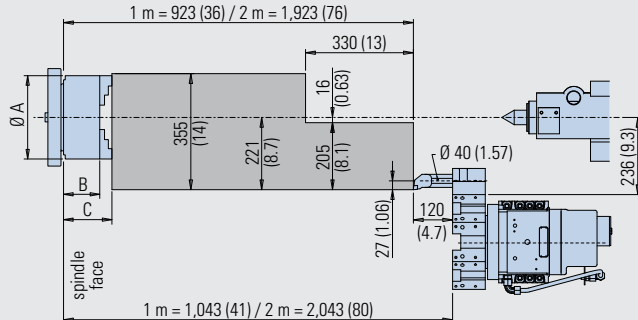


**8-station disk type automatic turret electrically driven - Romi disk**

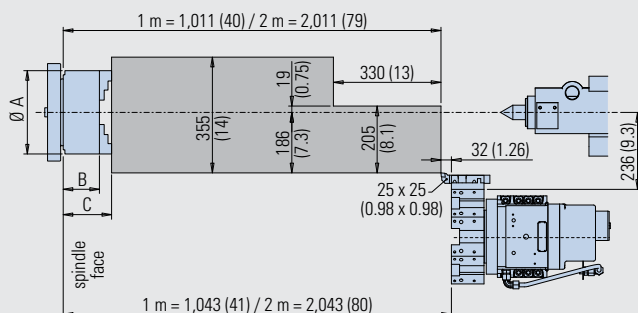
External turning



Internal turning



Face turning

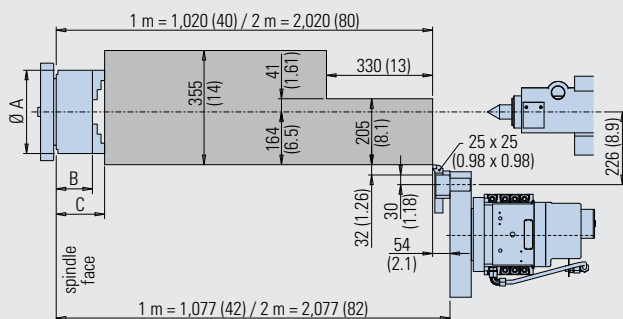


| Chuck model |                                         | A          | B         | C         |
|-------------|-----------------------------------------|------------|-----------|-----------|
| ASA A2-8"   | Hydraulic chuck - Ø 250 mm              | 250 (9.8)  | 119 (4.7) | 168 (6.6) |
|             | Hydraulic chuck - Ø 315 mm              | 315 (12.4) | 136 (5.4) | 190 (7.5) |
|             | 3 jaws universal chuck - Ø 250 mm (*)   | 250 (9.8)  | 115 (4.5) | 168 (6.6) |
|             | 3 jaws universal chuck - Ø 315 mm (*)   | 315 (12.4) | 135 (5.3) | 192 (7.6) |
|             | 4 jaws independent chuck - Ø 315 mm (*) | 315 (12.4) | 130 (5.1) | 180 (7.1) |
|             | 4 jaws independent chuck - Ø 400 mm (*) | 400 (15.7) | 138 (5.4) | 210 (8.3) |
|             | 4 jaws independent chuck - Ø 500 mm (*) | 500 (20)   | 155 (6.1) | 216 (8.5) |

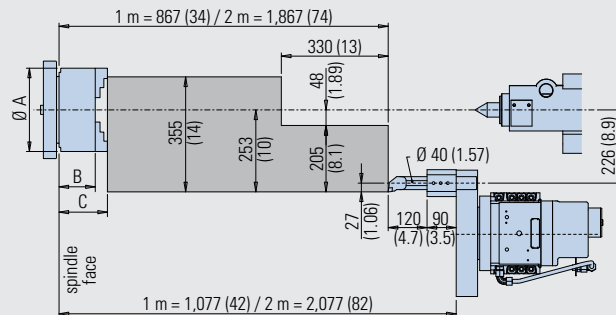
(\*) With reversible jaws

## 8-station disk type automatic turret electrically driven - VDI-40 disk

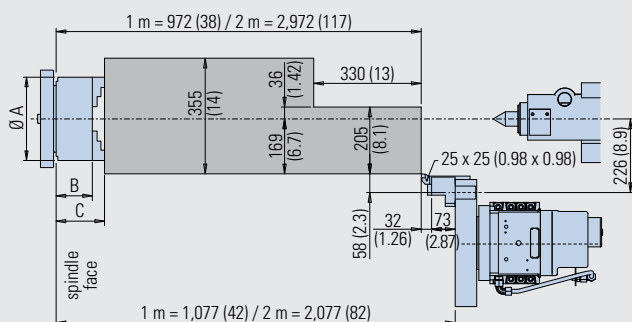
External turning



Internal turning

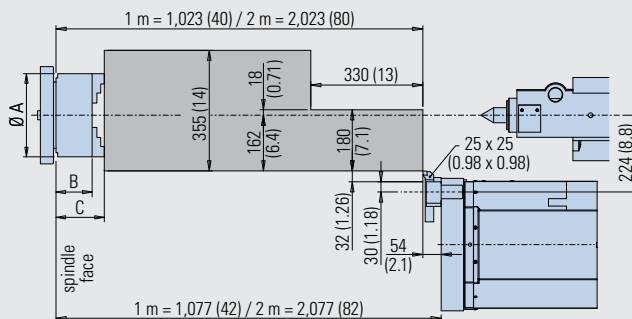


Face turning

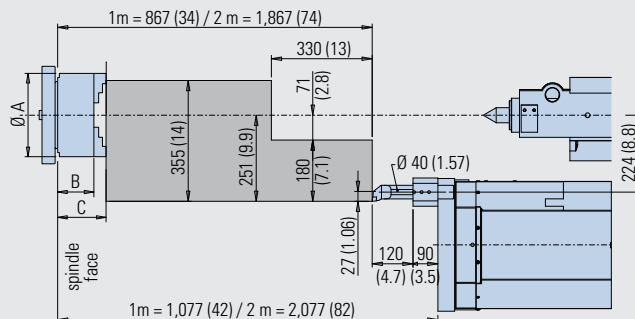


## 8-station disk type automatic turret electrically driven - VDI-40 disk for driven tool

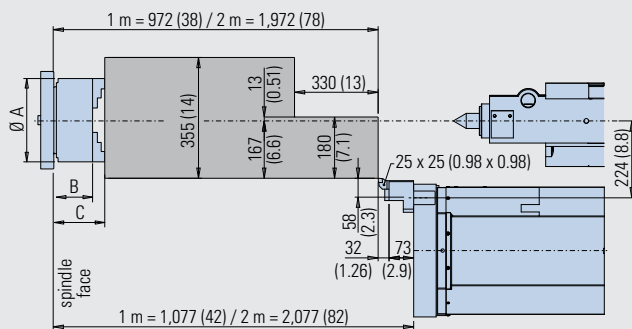
External turning



Internal turning



Face turning

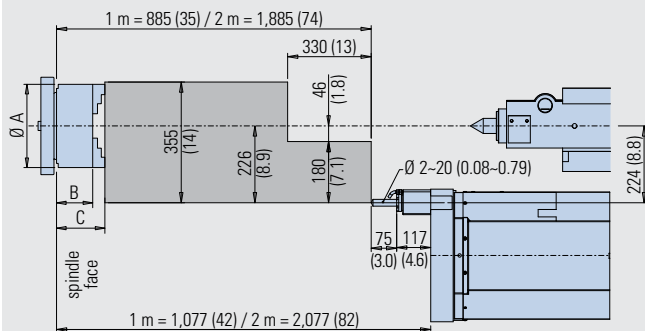


| Chuck model |                                         | A          | B         | C         |
|-------------|-----------------------------------------|------------|-----------|-----------|
| ASA A2-8"   | Hydraulic chuck - Ø 250 mm              | 250 (9.8)  | 119 (4.7) | 168 (6.6) |
|             | Hydraulic chuck - Ø 315 mm              | 315 (12.4) | 136 (5.4) | 190 (7.5) |
|             | 3 jaws universal chuck - Ø 250 mm (*)   | 250 (9.8)  | 115 (4.5) | 168 (6.6) |
|             | 3 jaws universal chuck - Ø 315 mm (*)   | 315 (12.4) | 135 (5.3) | 192 (7.6) |
|             | 4 jaws independent chuck - Ø 315 mm (*) | 315 (12.4) | 130 (5.1) | 180 (7.1) |
|             | 4 jaws independent chuck - Ø 400 mm (*) | 400 (15.7) | 138 (5.4) | 210 (8.3) |
|             | 4 jaws independent chuck - Ø 500 mm (*) | 500 (20)   | 155 (6.1) | 216 (8.5) |

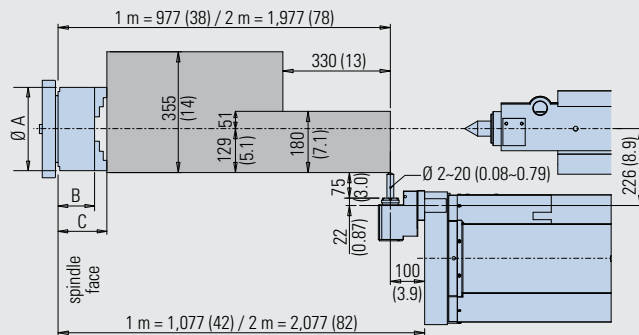
(\*) With reversible jaws

### 8-station disk type automatic turret electrically driven - VDI-40 disk for driven tool

Axial driven tool machining

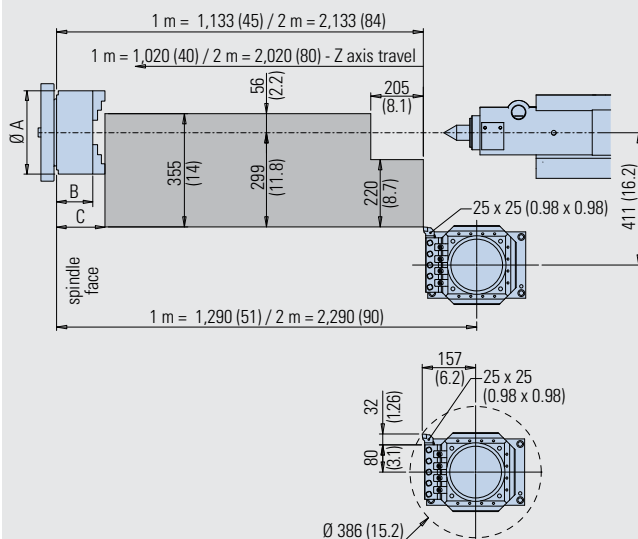


Radial driven tool machining

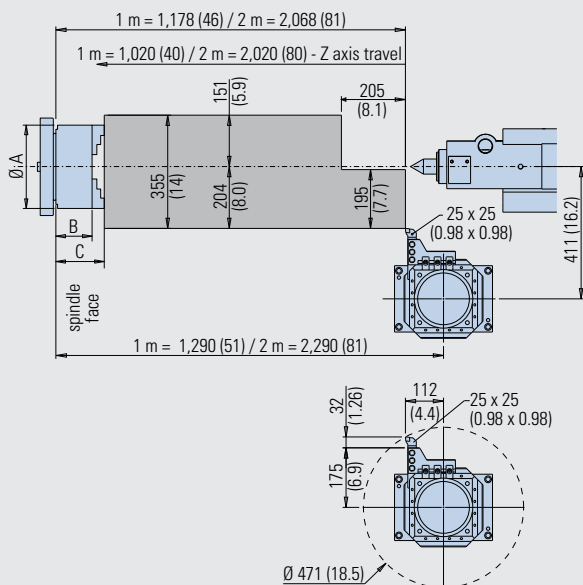


### 4-station vertical automatic turret, electrically driven

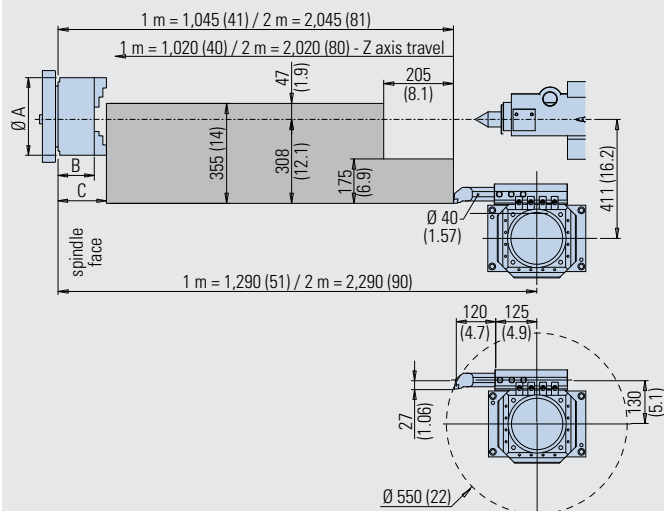
External turning



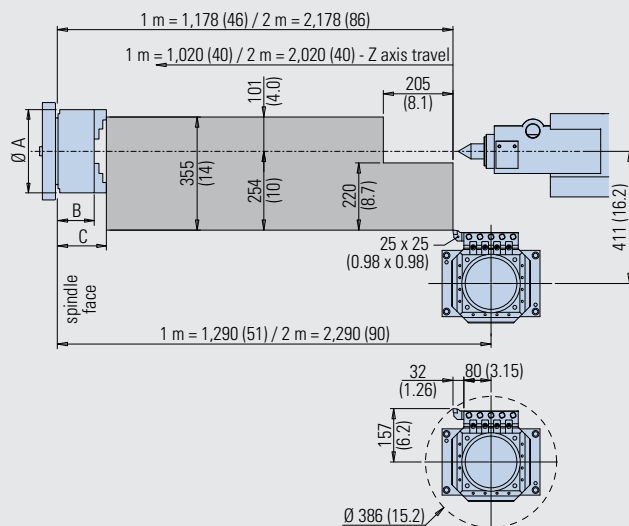
External turning



Internal turning

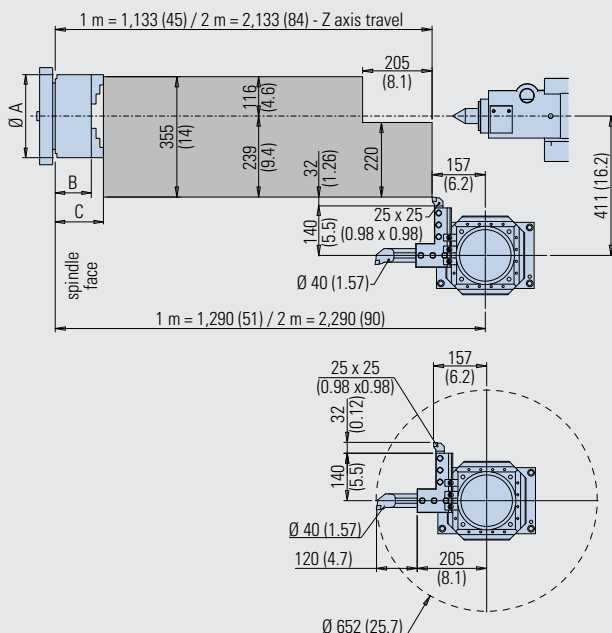


Face turning

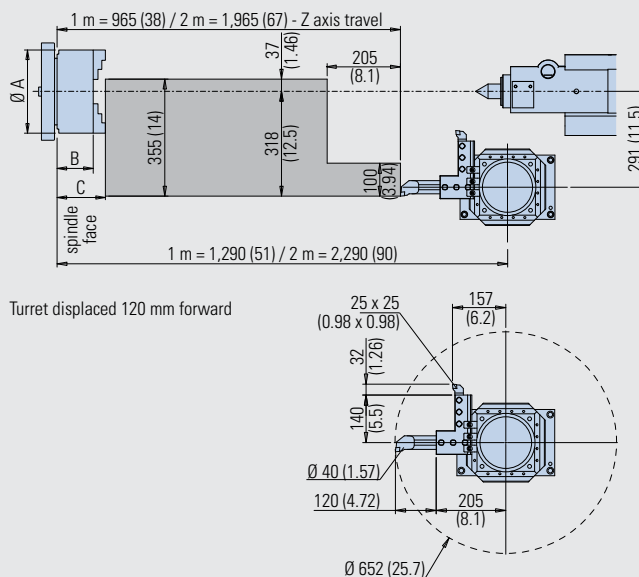


## 4-station vertical automatic turret, electrically driven

External turning - double support

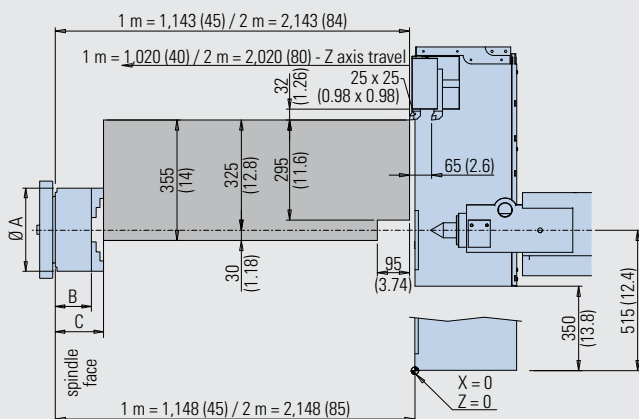


Internal turning - double support

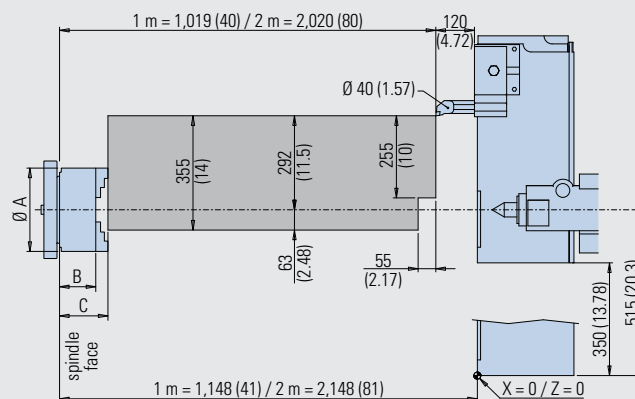


## Rear tool holder

External turning



Internal turning



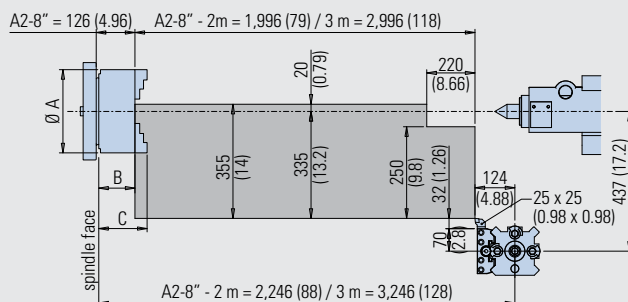
| Chuck model                             | A          | B         | C         |
|-----------------------------------------|------------|-----------|-----------|
| Hydraulic chuck - Ø 250 mm              | 250 (9.8)  | 119 (4.7) | 168 (6.6) |
| Hydraulic chuck - Ø 315 mm              | 315 (12.4) | 136 (5.4) | 190 (7.5) |
| 3 jaws universal chuck - Ø 250 mm (*)   | 250 (9.8)  | 115 (4.5) | 168 (6.6) |
| 3 jaws universal chuck - Ø 315 mm (*)   | 315 (12.4) | 135 (5.3) | 192 (7.6) |
| 4 jaws independent chuck - Ø 315 mm (*) | 315 (12.4) | 130 (5.1) | 180 (7.1) |
| 4 jaws independent chuck - Ø 400 mm (*) | 400 (15.7) | 138 (5.4) | 210 (8.3) |
| 4 jaws independent chuck - Ø 500 mm (*) | 500 (20)   | 155 (6.1) | 216 (8.5) |

(\*) With reversible jaws

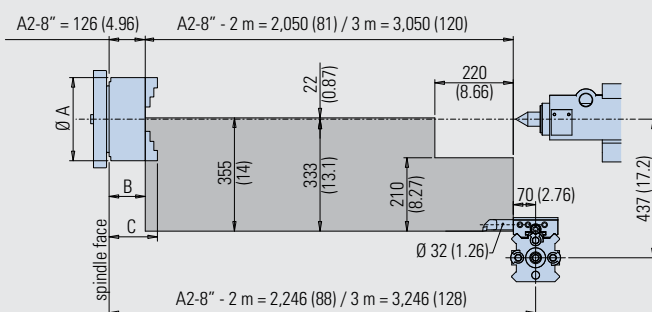
**ROMI C 680**

**Quick change tool holder**

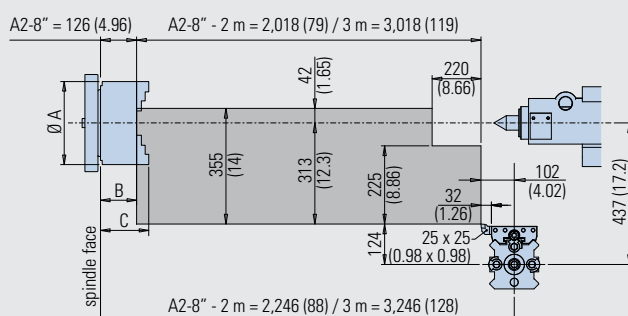
External turning



Internal turning

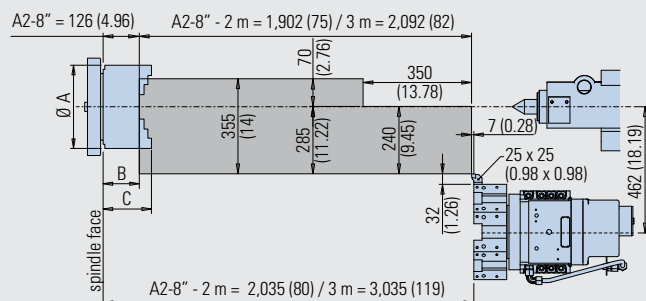


Face turning

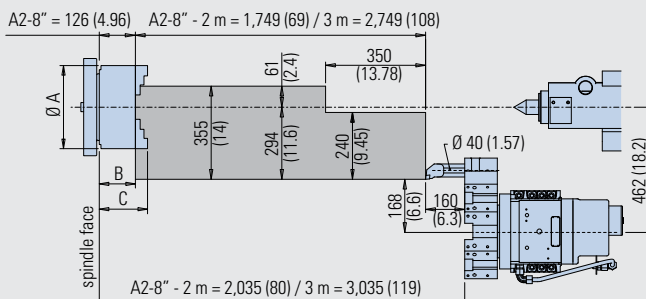


**8-station disk type automatic turret electrically driven - Romi disk**

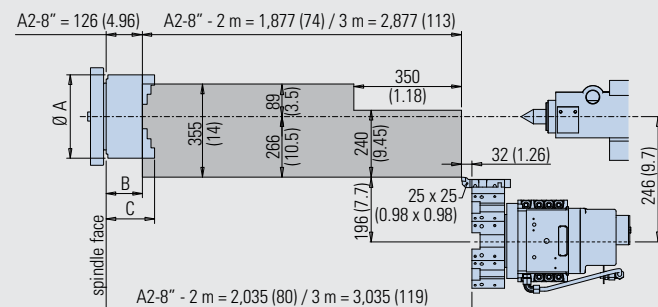
External turning



Internal turning



Face turning

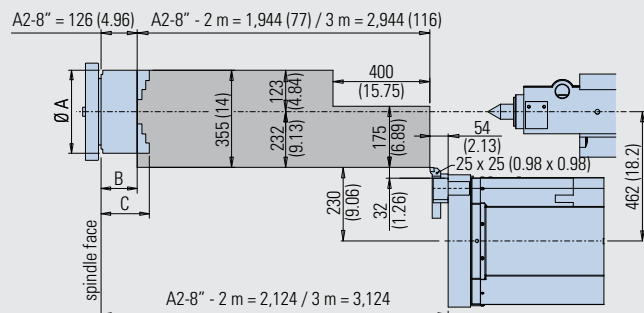


| Chuck model |                            | A            | B         | C         |
|-------------|----------------------------|--------------|-----------|-----------|
| ASA A2-8"   | Hydraulic chuck            | Ø 254 (10)   | 119 (4.7) | 168 (6.6) |
|             | Hydraulic chuck            | Ø 315 (12.4) | 136 (5.4) | 190 (7.5) |
|             | 3 jaws universal chuck (*) | Ø 254 (10)   | 89 (3.5)  | 142 (5.6) |
|             | 3 jaws universal chuck (*) | Ø 315 (12.4) | 96 (3.8)  | 153 (6)   |

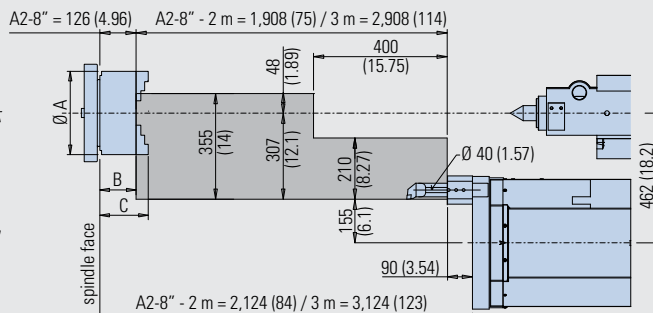
(\*) With reversible jaws

# **8-station disk type automatic turret electrically driven - Romi disk**

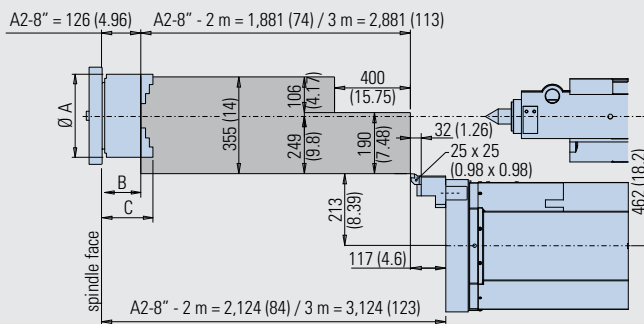
## External turning



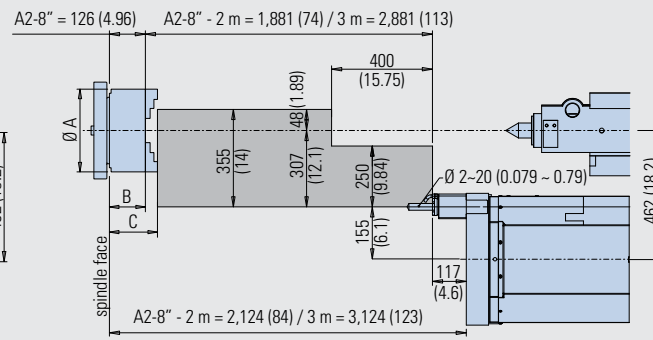
## Internal turning



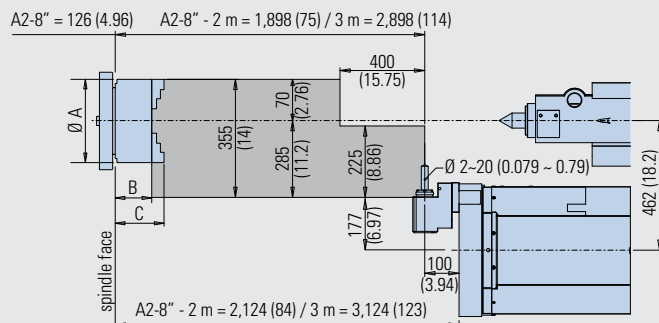
## Face turning



## Axial driven tool machining



## Radial driven tool machining

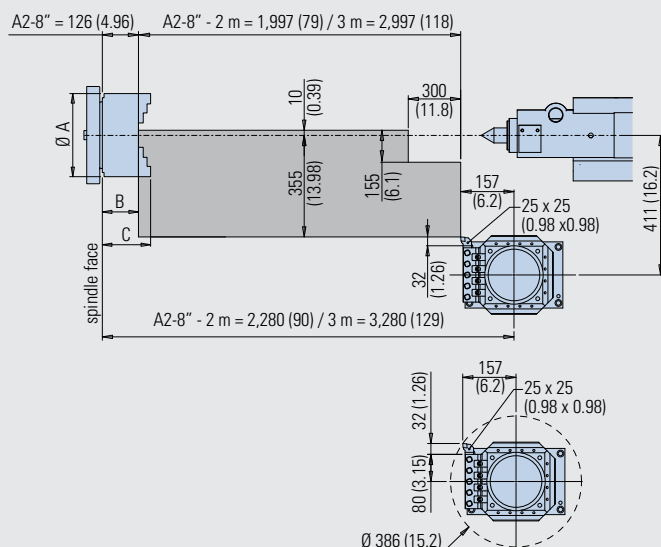


| Chuck model |                            | A            | B         | C         |
|-------------|----------------------------|--------------|-----------|-----------|
| ASA A2-8"   | Hydraulic chuck            | Ø 254 (10)   | 119 (4.7) | 168 (6.6) |
|             | Hydraulic chuck            | Ø 315 (12.4) | 136 (5.4) | 190 (7.5) |
|             | 3 jaws universal chuck (*) | Ø 254 (10)   | 89 (3.5)  | 142 (5.6) |
|             | 3 jaws universal chuck (*) | Ø 315 (12.4) | 96 (3.8)  | 153 (6)   |

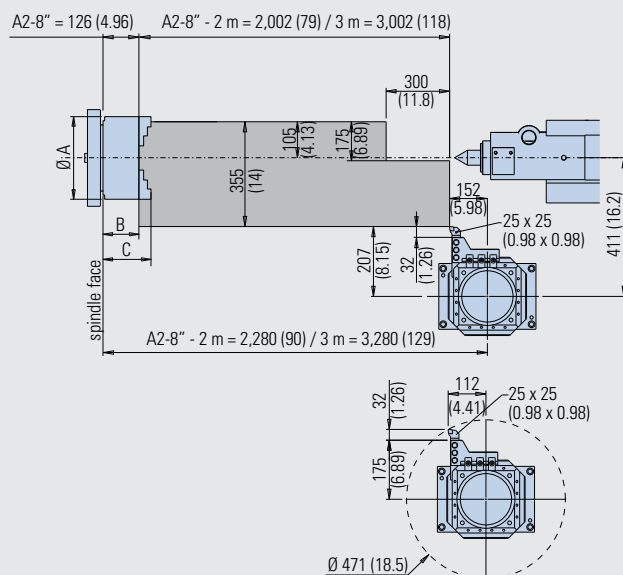
(\*) With reversible jaws

# **4-station vertical automatic turret, electrically driven**

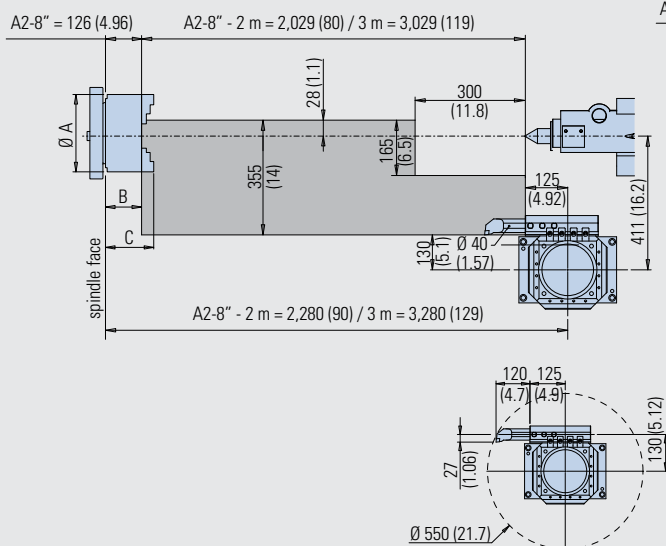
## External turning



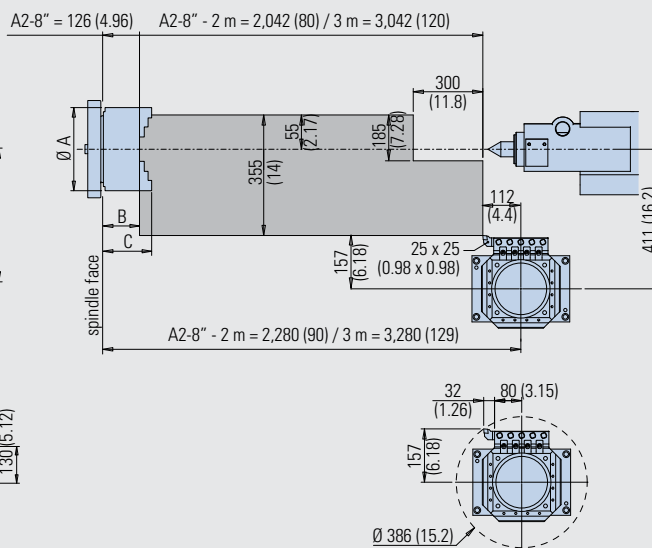
## External turning



## Internal turning



## Face turning

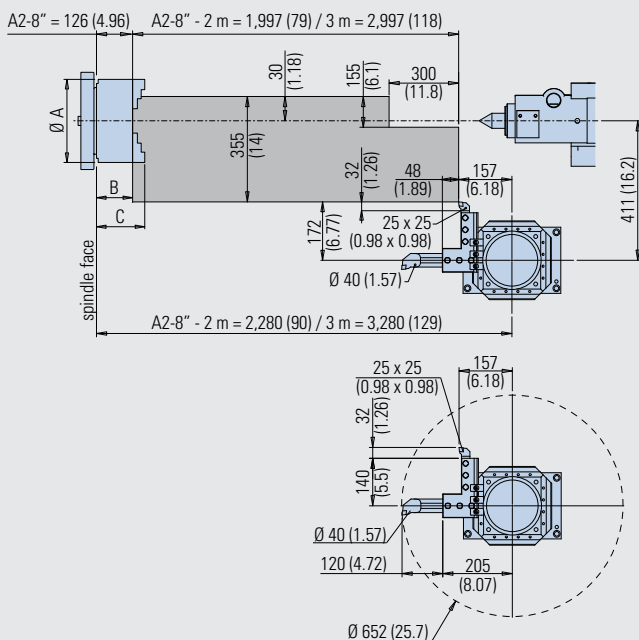


| Chuck model |                            | A            | B         | C         |
|-------------|----------------------------|--------------|-----------|-----------|
| ASA A2-8"   | Hydraulic chuck            | Ø 254 (10)   | 119 (4.7) | 168 (6.6) |
|             | Hydraulic chuck            | Ø 315 (12.4) | 136 (5.4) | 190 (7.5) |
|             | 3 jaws universal chuck (*) | Ø 254 (10)   | 89 (3.5)  | 142 (5.6) |
|             | 3 jaws universal chuck (*) | Ø 315 (12.4) | 96 (3.8)  | 153 (6)   |

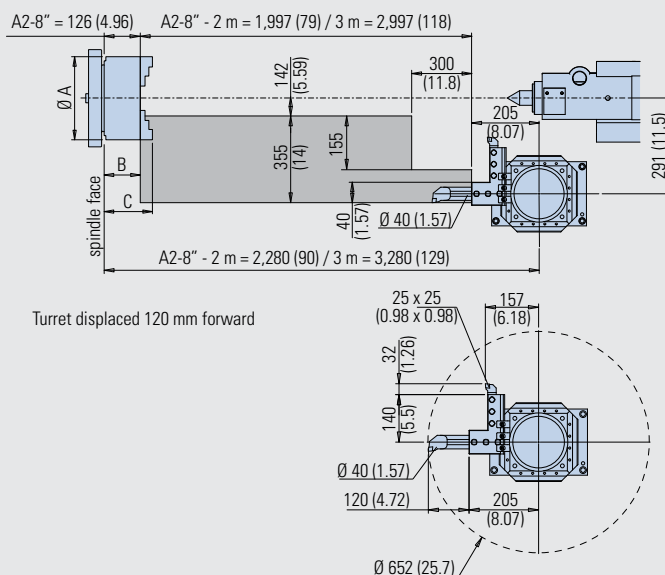
(\*) With reversible jaws

## 4-station vertical automatic turret, electrically driven

External turning - double support

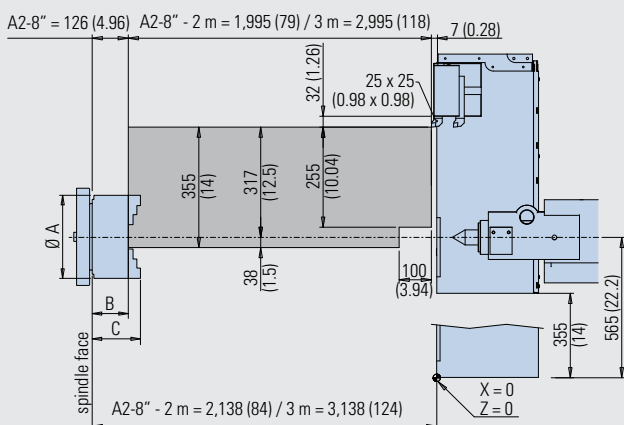


Internal turning - double support

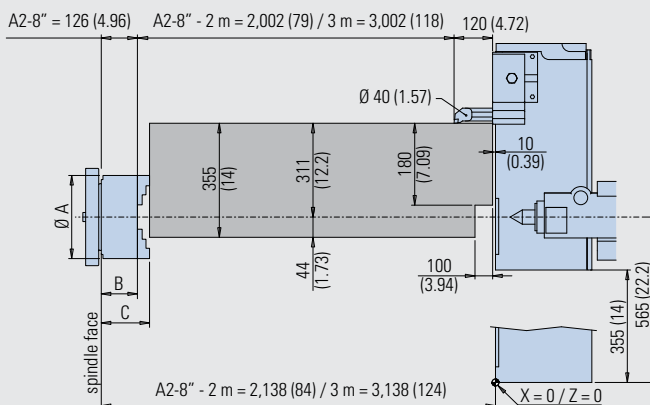


## Rear tool holder

External turning



Internal turning



| Chuck model |                            | A            | B         | C         |
|-------------|----------------------------|--------------|-----------|-----------|
| ASA A2-8"   | Hydraulic chuck            | Ø 254 (10)   | 119 (4.7) | 168 (6.6) |
|             | Hydraulic chuck            | Ø 315 (12.4) | 136 (5.4) | 190 (7.5) |
|             | 3 jaws universal chuck (*) | Ø 254 (10)   | 89 (3.5)  | 142 (5.6) |
|             | 3 jaws universal chuck (*) | Ø 315 (12.4) | 96 (3.8)  | 153 (6)   |

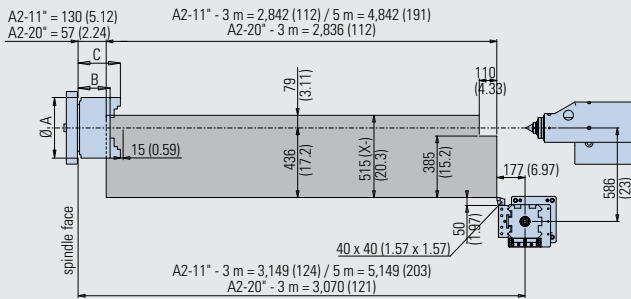
(\*) With reversible jaws

## Work layout - dimensions in mm (in)

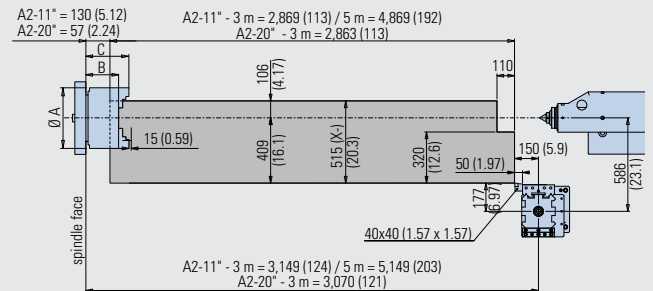
### ROMI C 830 / ROMI C 1000 / ROMI C 1000BB

#### Quick change tool holder

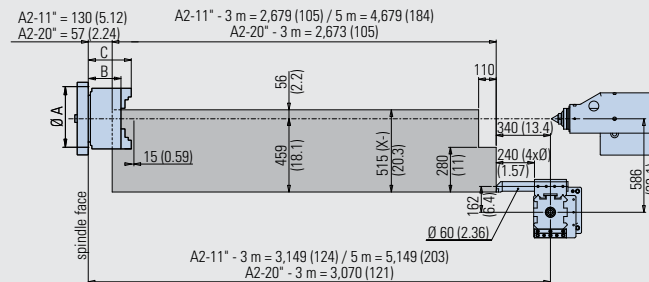
##### External turning



##### Face turning

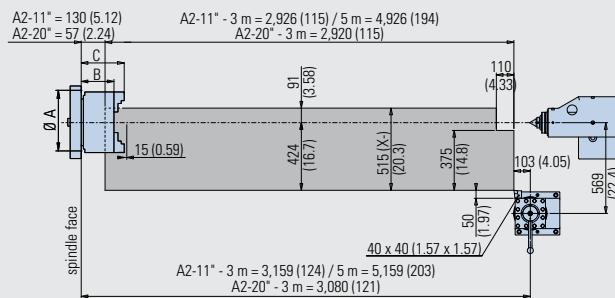


##### Internal turning

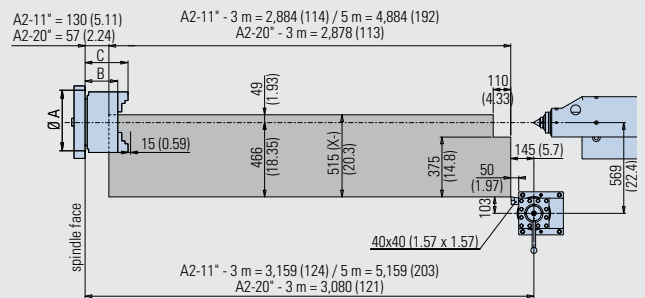


#### 4-station manual square turret

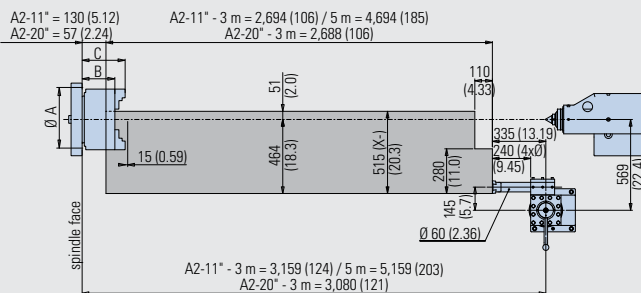
##### External turning



##### Face turning



##### Internal turning

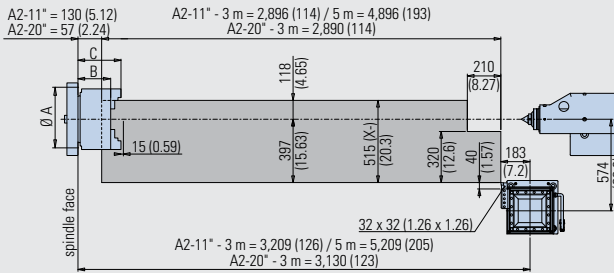


| Chuck model |                          | A            | B           | C           |
|-------------|--------------------------|--------------|-------------|-------------|
| ASA A2-11"  | 3 jaws universal chuck   | Ø 400 (15.7) | 148.7 (5.9) | 198.7 (7.8) |
|             | 3 jaws universal chuck   | Ø 500 (20)   | 158.5 (6.2) | 238.5 (9.4) |
|             | 4 jaws independent chuck | Ø 550 (22)   | 120 (4.7)   | 180 (7.1)   |
|             | 4 jaws independent chuck | Ø 700 (28)   | 130 (5.1)   | 190 (7.5)   |
|             | Hydraulic chuck          | Ø 315 (12.4) | 139 (5.5)   | 193 (7.6)   |
|             | Hydraulic chuck          | Ø 390 (15.4) | 143 (5.6)   | 197 (7.8)   |
| ASA A2-20"  | 3 jaws universal chuck   | Ø 630 (25)   | 188 (7.4)   | 275 (10.8)  |
|             | 3 jaws universal chuck   | Ø 800 (31)   | 201 (7.9)   | 287 (11.3)  |
|             | 4 jaws independent chuck | Ø 720 (28)   | 120 (4.7)   | 206 (8.1)   |

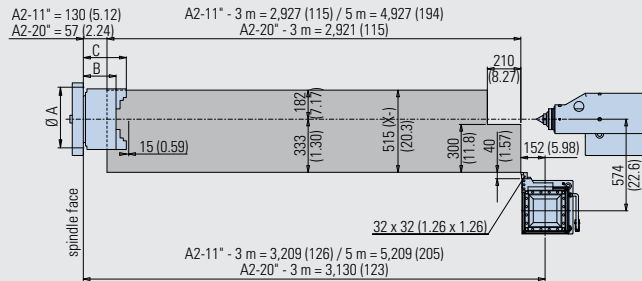
## Work layout - dimensions in mm (in)

### 4-station vertical automatic turret, electrically driven

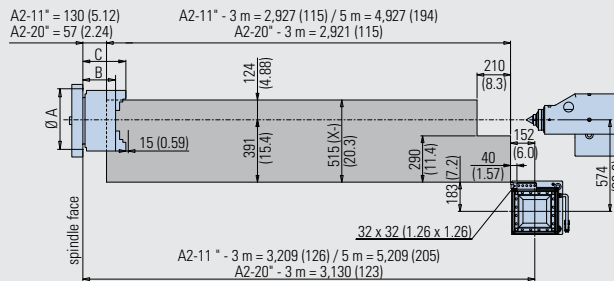
#### External turning



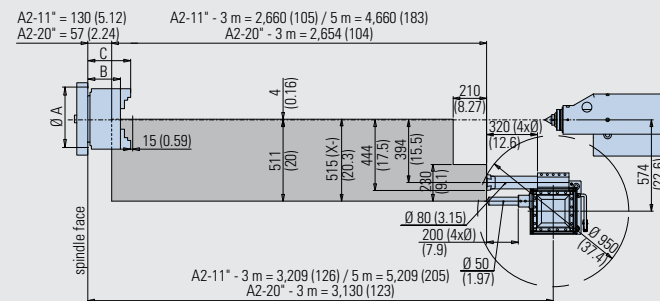
#### External turning



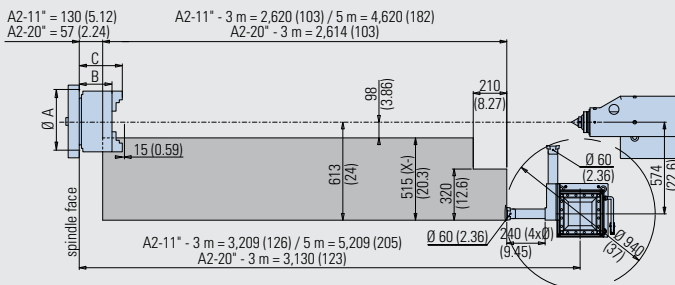
#### Face turning



#### Internal turning



#### External turning - double support

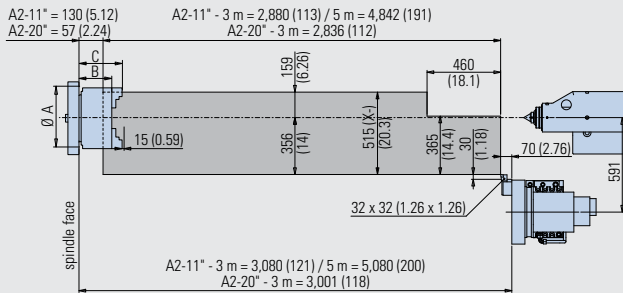


| Chuck model |                          | A            | B           | C           |
|-------------|--------------------------|--------------|-------------|-------------|
| ASA A2-11"  | 3 jaws universal chuck   | Ø 400 (15.7) | 148.7 (5.9) | 198.7 (7.8) |
|             | 3 jaws universal chuck   | Ø 500 (20)   | 158.5 (6.2) | 238.5 (9.4) |
|             | 4 jaws independent chuck | Ø 550 (22)   | 120 (4.7)   | 180 (7.1)   |
|             | 4 jaws independent chuck | Ø 700 (28)   | 130 (5.1)   | 190 (7.5)   |
|             | Hydraulic chuck          | Ø 315 (12.4) | 139 (5.5)   | 193 (7.6)   |
|             | Hydraulic chuck          | Ø 390 (15.4) | 143 (5.6)   | 197 (7.8)   |
| ASA A2-20"  | 3 jaws universal chuck   | Ø 630 (25)   | 188 (7.4)   | 275 (10.8)  |
|             | 3 jaws universal chuck   | Ø 800 (31)   | 201 (7.9)   | 287 (11.3)  |
|             | 4 jaws independent chuck | Ø 720 (28)   | 120 (4.7)   | 206 (8.1)   |

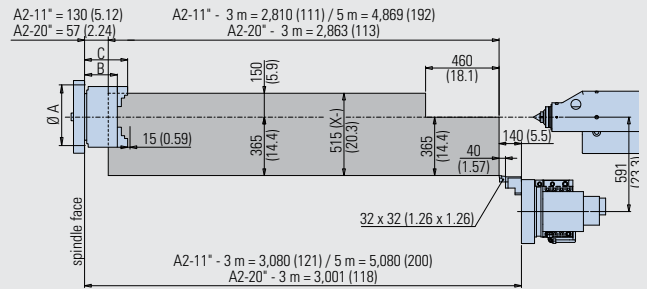
## Work layout - dimensions in mm (in)

### 8-station disk type automatic turret electrically driven - VDI-50 disk

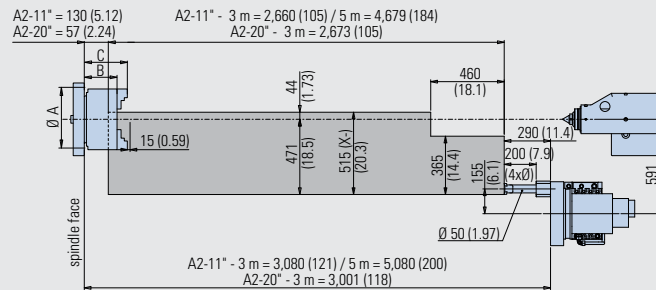
#### External turning



#### Face turning

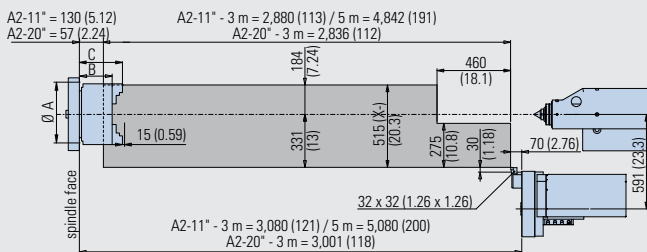


#### Internal turning

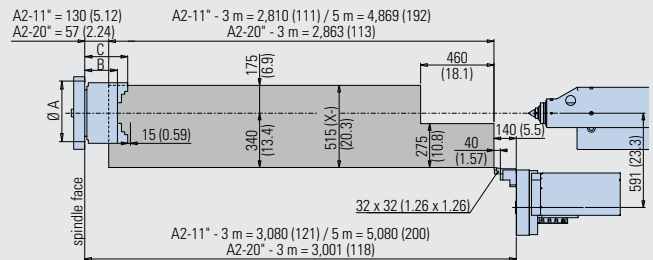


### 8-station disk type automatic turret electrically driven - VDI-50 disk for driven tool

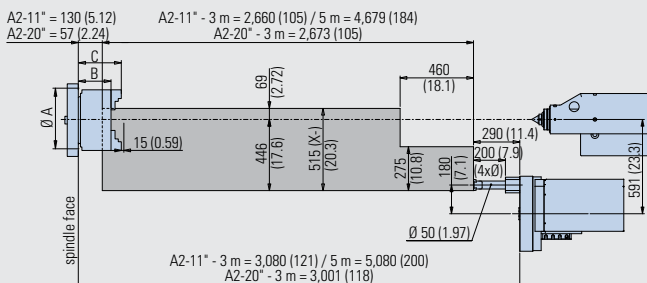
#### External turning



#### Face turning



#### Internal turning



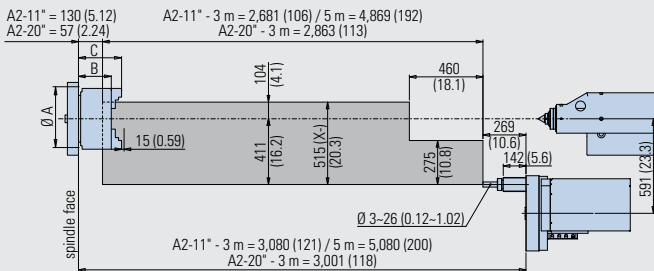
| Chuck model |                          | A            | B           | C           |
|-------------|--------------------------|--------------|-------------|-------------|
| ASA A2-11"  | 3 jaws universal chuck   | Ø 400 (15.7) | 148.7 (5.9) | 198.7 (7.8) |
|             | 3 jaws universal chuck   | Ø 500 (20)   | 158.5 (6.2) | 238.5 (9.4) |
|             | 4 jaws independent chuck | Ø 550 (22)   | 120 (4.7)   | 180 (7.1)   |
|             | 4 jaws independent chuck | Ø 700 (28)   | 130 (5.1)   | 190 (7.5)   |
|             | Hydraulic chuck          | Ø 315 (12.4) | 139 (5.5)   | 193 (7.6)   |
|             | Hydraulic chuck          | Ø 390 (15.4) | 143 (5.6)   | 197 (7.8)   |
| ASA A2-20"  | 3 jaws universal chuck   | Ø 630 (25)   | 188 (7.4)   | 275 (10.8)  |
|             | 3 jaws universal chuck   | Ø 800 (31)   | 201 (7.9)   | 287 (11.3)  |
|             | 4 jaws independent chuck | Ø 720 (28)   | 120 (4.7)   | 206 (8.1)   |

Drawings are not in scale

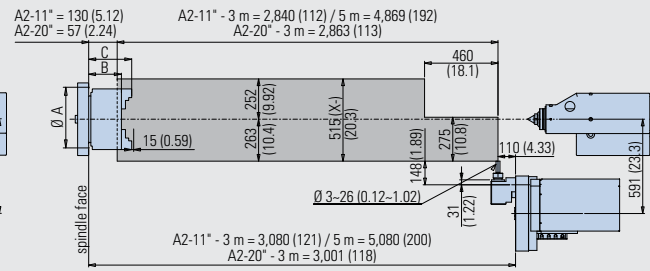
## Work layout - dimensions in mm (in)

### 8-station disk type automatic turret electrically driven - VDI-50 disk for driven tool

#### Axial driven tool machining

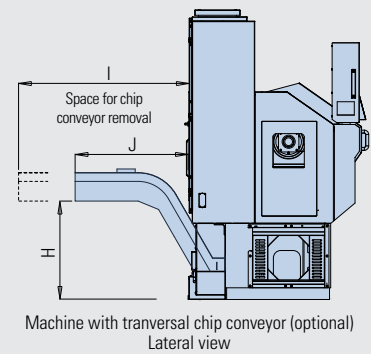
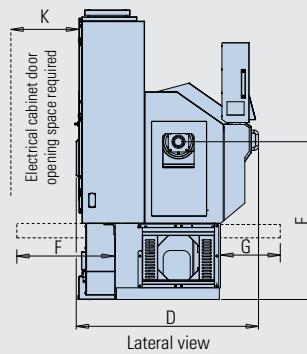
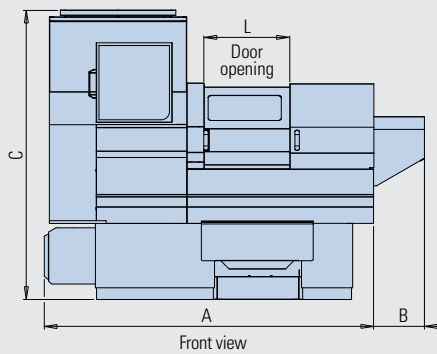


#### Radial driven tool machining



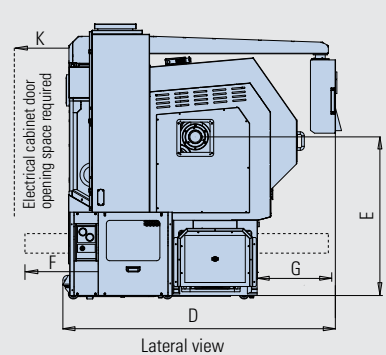
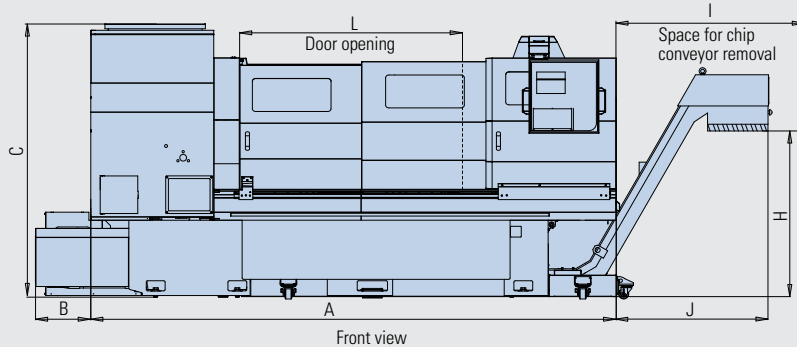
## Machine dimensions - dimensions in mm (in)

### ROMI C 420 / C 510



|                   |         | A           | B          | C          | D          | E          | F        | G        | H        | I          | J          | K        | L          |
|-------------------|---------|-------------|------------|------------|------------|------------|----------|----------|----------|------------|------------|----------|------------|
| <b>ROMI C 420</b> | mm (in) | 2,755 (108) | 345 (13.6) | 1,980 (78) | 1,240 (49) | 1,100 (43) | 730 (29) | 730 (29) | 505 (20) | 1,550 (61) | 780 (31)   | 935 (37) | 720 (28)   |
| <b>ROMI C 510</b> | mm (in) | 3,615 (142) | 132 (5.2)  | 2,010 (79) | 1,675 (66) | 1,130 (44) | 900 (35) | 900 (35) | 670 (26) | 2,200 (87) | 1,126 (44) | 995 (39) | 1,515 (60) |

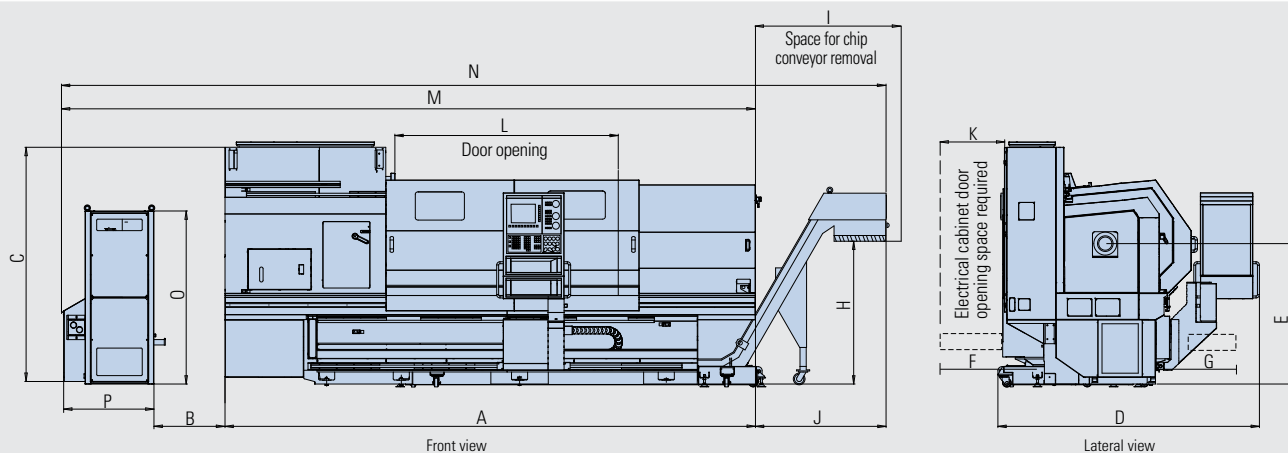
### ROMI C 620



|                   |         | A           | B          | C          | D          | E          | F        | G        | H          | I           | J          | K        | L           |
|-------------------|---------|-------------|------------|------------|------------|------------|----------|----------|------------|-------------|------------|----------|-------------|
| <b>ROMI C 620</b> | mm (in) | 3,435 (135) |            |            |            |            |          |          |            | 3,490 (137) |            |          | 3,435 (135) |
|                   |         | (1.0 m)     |            |            |            |            |          |          |            | (1.0 m)     |            |          | (1.0 m)     |
|                   |         | 4,435 (175) | 410 (16.1) | 2,030 (80) | 2,075 (82) | 1,205 (47) | 587 (23) | 587 (23) | 1,230 (48) | 4,500 (177) | 1,130 (44) | 995 (39) | 4,435 (175) |
|                   |         | (2.0 m)     |            |            |            |            |          |          |            | (2.0 m)     |            |          | (2.0 m)     |

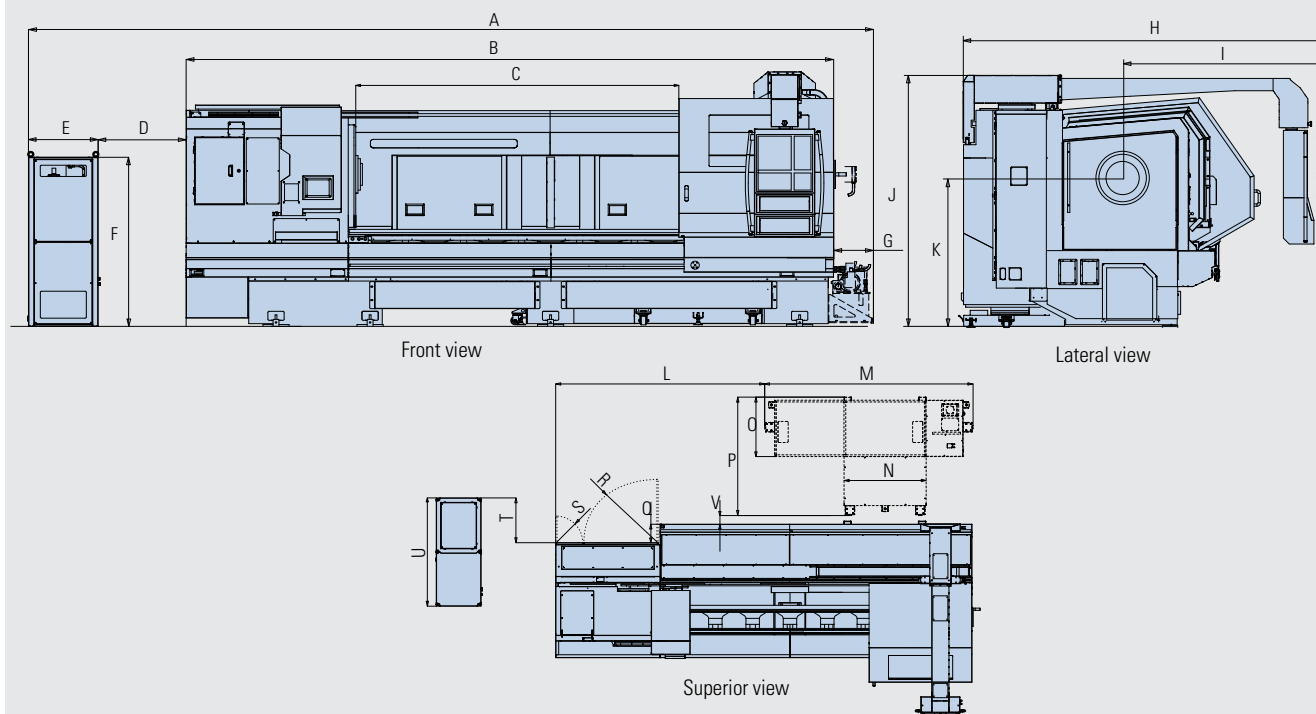
## Machine dimensions - dimensions in mm (in)

### ROMI C 680



|            |      | A          | B     | C     | D     | E     | F    | G    | H          | I          | J          | K    | L          | M          | N          | O     | P    |
|------------|------|------------|-------|-------|-------|-------|------|------|------------|------------|------------|------|------------|------------|------------|-------|------|
| ROMI C 680 |      | 4,840 (2m) |       |       |       |       |      |      | 1,743 (2m) | 3,490 (2m) | 1,140 (2m) |      | 2,090 (2m) | 6,645 (2m) | 7,780 (2m) |       |      |
|            | mm   | (191)      | 1,000 | 2,110 | 2,430 | 1,222 | 587  | 587  | (69)       | (137)      | (45)       | 965  | (82)       | (262)      | (306)      | 1,510 | 790  |
|            | (in) | 5,845 (3m) | (39)  | (83)  | (96)  | (48)  | (23) | (23) | 1,282 (3m) | 4,500 (2m) | 1,150 (3m) | (38) | 3,130 (3m) | 7,655 (3m) | 8,800 (3m) | (59)  | (31) |
|            |      | (230)      |       |       |       |       |      |      | (50)       | (177)      | (45)       |      | (123)      | (301)      | (346)      |       |      |

### ROMI C 830 / ROMI C 1000 / ROMI C 1000BB



|                    |     | B,C, (*) | A     | B     | C     | D     | E    | F     | G      | H     | I     | J     | K     | L     | M     | N     | O    | P     | Q     | R    | S      | T    | U     | V     |
|--------------------|-----|----------|-------|-------|-------|-------|------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|--------|------|-------|-------|
| ROMI C 830         | 3 m |          | 7,520 | 5,575 | 2,780 | 1,000 | 600  | 1,500 | 340    | 3,200 | 1,860 | 2,270 | 1,354 | 2,800 | 2,790 | 1,100 | 890  | 1,825 | 250   | 990  | 360    | 600  | 1,450 | 100   |
|                    |     |          | (296) | (219) | (109) | (39)  | (24) | (59)  | (13.4) | (126) | (73)  | (89)  | (53)  | (110) | (110) | (43)  | (35) | (72)  | (9.8) | (39) | (14.2) | (24) | (57)  | (3.9) |
| ROMI C 1000        | 5 m |          | 9,520 | 7,575 | 4,780 | 1,000 | 600  | 1,500 | 340    | 3,200 | 1,860 | 2,270 | 1,354 | 2,800 | 2,790 | 1,100 | 890  | 1,825 | 250   | 990  | 360    | 600  | 1,450 | 100   |
|                    |     |          | (375) | (298) | (188) | (39)  | (24) | (59)  | (13.4) | (126) | (73)  | (89)  | (53)  | (110) | (110) | (43)  | (35) | (72)  | (9.8) | (39) | (14.2) | (24) | (57)  | (3.9) |
| ROMI C 1000BB (**) | 3 m |          | 7,520 | 5,575 | 2,780 | 1,000 | 600  | 1,500 | 340    | 3,200 | 1,860 | 2,270 | 1,354 | 2,800 | 2,790 | 1,100 | 890  | 1,825 | 250   | 990  | 360    | 600  | 1,450 | 100   |
|                    |     |          | (296) | (219) | (109) | (39)  | (24) | (59)  | (13.4) | (126) | (73)  | (89)  | (53)  | (110) | (110) | (43)  | (35) | (72)  | (9.8) | (39) | (14.2) | (24) | (57)  | (3.9) |

(\*) B.C. = between centers

(\*\*) Available only on version 3 meters between centers

## CNC Features

### CNC Siemens Sinumerik 828D



#### High technology control with excellent performance and reliability

The CNC Siemens Sinumerik 828D offers 10.4" LCD color monitor, drive for Compact Flash Card, USB connection, and Ethernet interface for factory network, offering great flexibility for loading programs and parameters.

Machining programs can be executed directly from PCMCIA card or a Pen Drive.

#### Resources and CNC performance

- Accuracy 80bit NANOtp
- Minimum block cycle time = 6 ms
- Look Ahead = 1
- Acceleration with Jerk Limitation
- Synchronous Actions and High Speed Output
- Idioms: Portuguese, English, Spanish, Italian, German, French
- Ethernet Interface
- USB Interface
- Part Number, Machining Cycle Time and Clock
- Calculation Function
- Network drive management

#### Programming resources

- Directory Classified by Program, Subprogram and Cycles
- High Level Language
- ProgramGuide
- ProgramGUIDE CNC-Programming
- Program Block Search
- Background Editing
- Subprogram call
- Memory Program Number
- Part Program Storage = 3 MB
- Program Creation and Editing
- Linear, Circular and Helical Interpolation
- Dwell Time

#### Feedrate functions

- Feedrate in mm/min or inch/min
- Feedrate in mm/min or inch/min
- Feedrate and Precision Position on the Corners
- Exact Stop

#### Graphic functions

- PC alike
- Animated Elements - cycle parameters support
- Graphic simulation 2D

#### Coordinate systems

- Work Plane Selection
- Workpiece Coordinate System with 100 Pairs
- Machine Coordinate System
- Workpiece Coordinate System Presetting
- Local Workpiece Coordinate System
- Tool length measuring Screen - Manual Mode

#### Coordinate values and dimensions

- Speed and Dimension in Inch or Metric
- Absolute and Incremental Programming Mode
- Linear and Circular Interpol with Polar Coordinates
- Scale / Ascale
- Mirror / Amirror
- Coordinate System Rotating
- Transfer Zero Point

#### Spindle functions

- RPM in S coder
- Spindle Angular Positioning (M19 ou Spos)

#### Applied tool function

- Tool Radius Compensation
- Tool Length and Radius Manual Measurement
- Tool Offset Compensation Pairs = 256 (Length and Diameter/Radius)
- Tool Management
- Tool Life Management

#### Macro

- Parametric Programming
- Macro and User Variables
- System Variables

#### Functions for program simplification

- Canned Cycle for Drilling, Boring and Tapping
- Circular Pattern for Straight and Circular Slots
- Canned Cycle for Rigid Tapping
- Canned Cycle for Thread Milling
- Floating Tapping
- Thread repair

#### Programming format - 828D Series

- ISO Programming Format
- ProgramGUIDE CNC-Programming

#### Execution operations

- JOG Mode
- Handwheel Mode
- MDA Operation
- Automatic Mode
- Single Block Mode
- Program Stop Mode
- Optional Stop Mode
- Program Test Operation Mode
- Block Delete Mode
- Axes Referencing by Program
- Program Restart
- Automatic Operation by Memory or Remote

#### Maintenance functions

- Emergency Stop
- Diagnostics and Alarms Functions
- Repair Service Contract (24 months- RSC)

#### Energy control system

- Control Energy CTRL-E

#### Optional

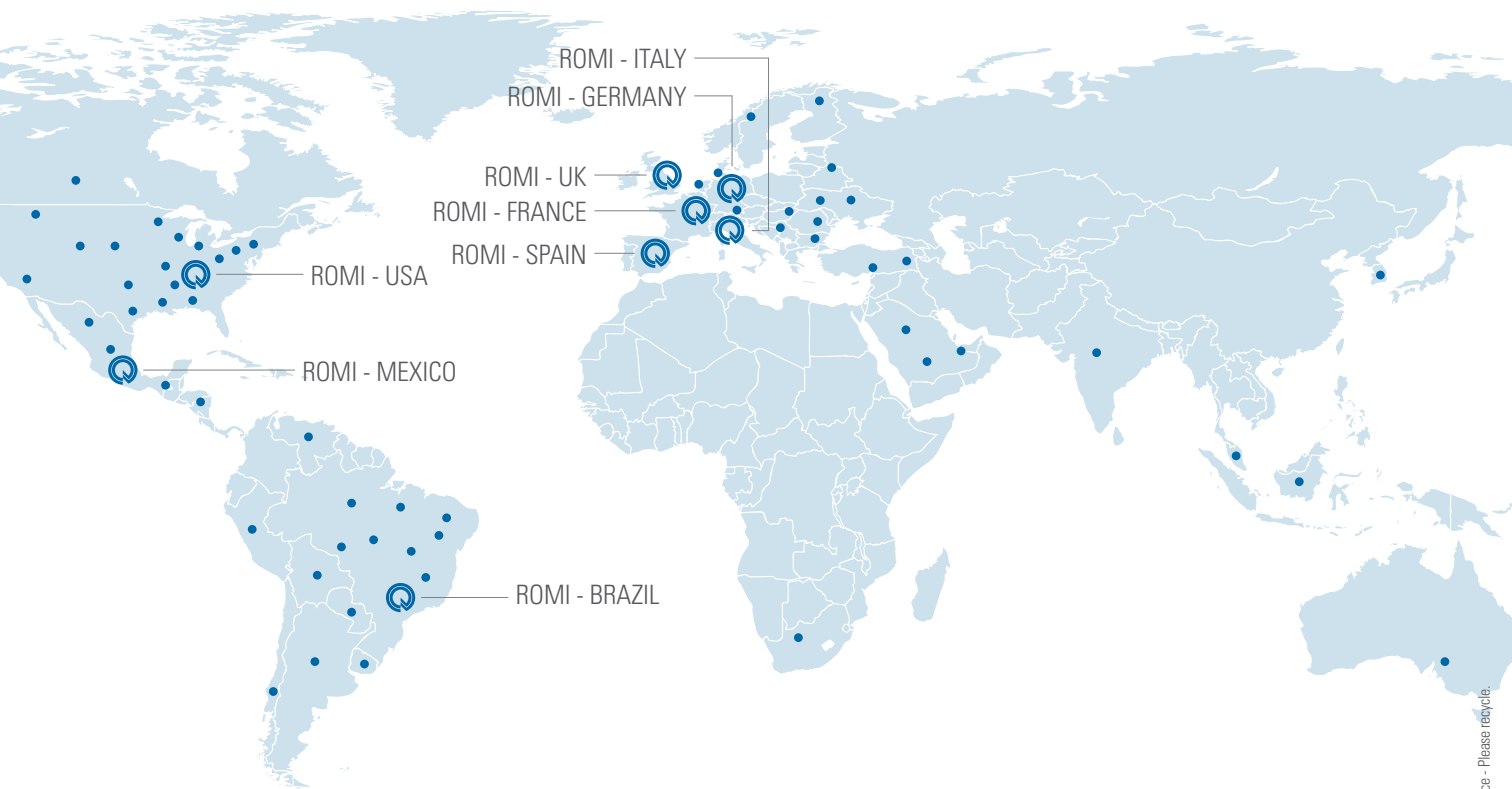
- Conversational Programming step-by-step SHOPTURN / SHOPMILL (A)
- On-time simulation software
- Residual material removal software
- Software "Contour Handwheel Siemens 840D SL/828D"
- 3D simulation software

(A) Available for new machines (factory installed) and also for machines already delivered (in this case, for field installation, it is necessary to issue a Special Execution Request).

When the item Kit Multiplic is sold, this option is already included.

This software enables the elaboration of programs in a simple manner (conversational program) through data input on friendly-screen. It makes available the following cycles: Canned cycles for drilling and threading; Cycle for milling; Free contouring, Graphic simulation and Manual Machining by the option Manual Machine.

## WORLDWIDE PRESENCE



Brazil



United States



Germany



England



France



Spain



Italy



Germany - B+W



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