



Inventory number: 21777

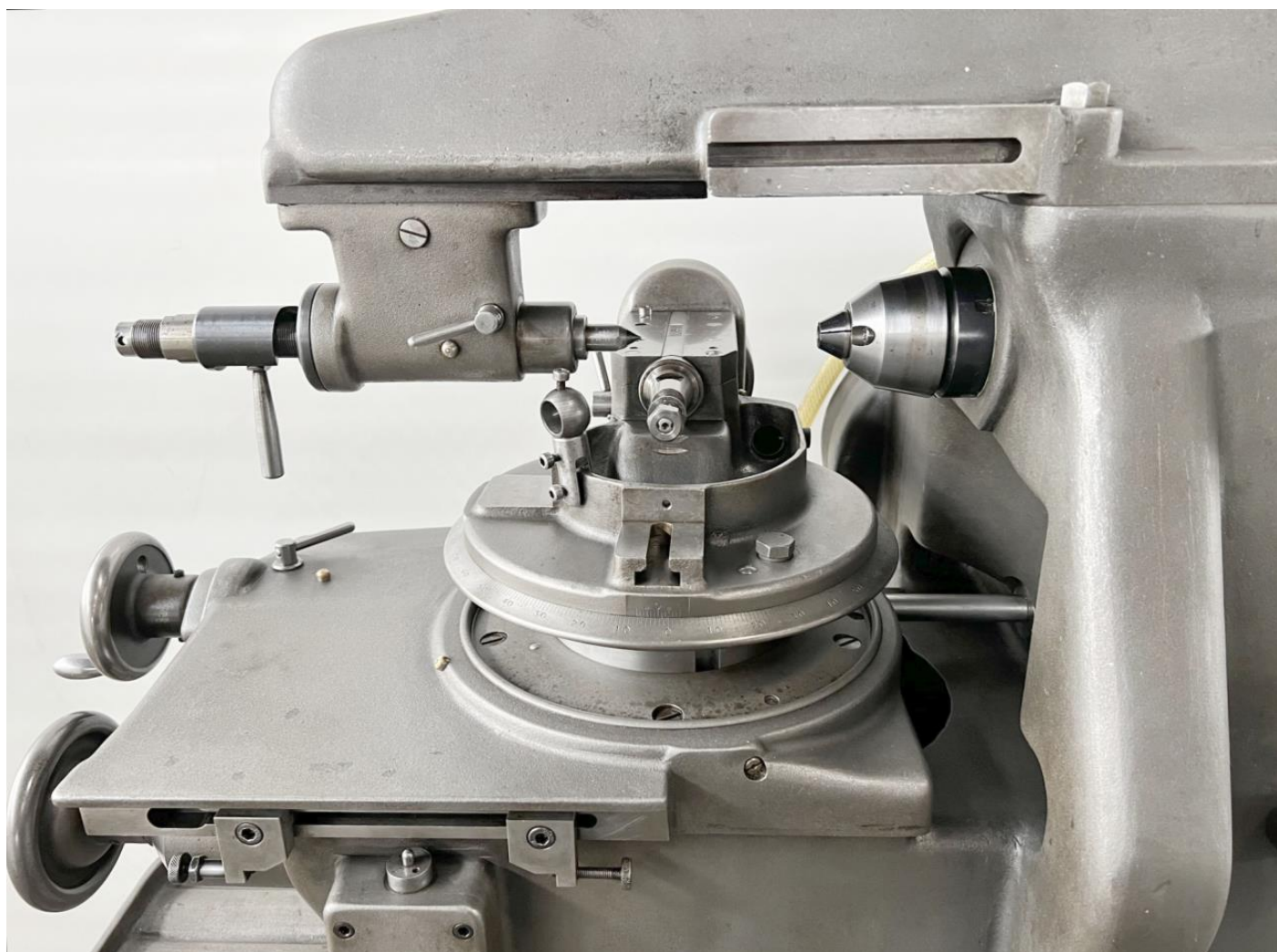
Universal gear hobbing machine  
MIKRON 102.05



### Technical data

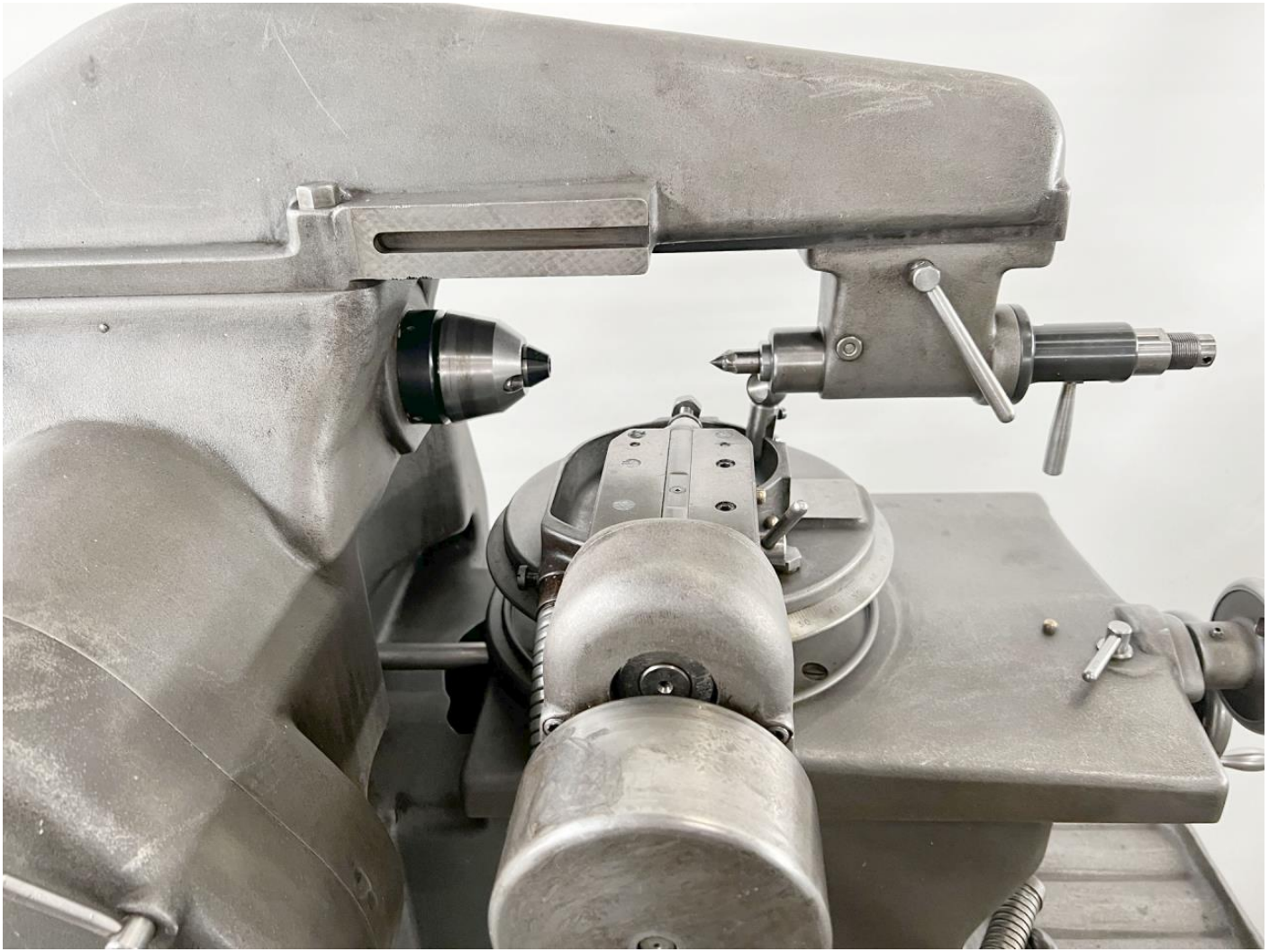
|                              |           |
|------------------------------|-----------|
| Work capacity: max. diameter | 120 mm    |
| Collet attachment            | 20 W      |
| Max. module                  | 2         |
| Workpiece length max.        | 130 mm    |
| Pitch min.                   | 2         |
| max.                         | 400       |
| Spiral lead:                 |           |
| from                         | 2 mm      |
| up to                        | 5000 mm   |
| Spiral lead angle:           |           |
| from                         | 0 °       |
| up to                        | 90 °      |
| Milling cutter speeds:       |           |
| number (steps)               | 14        |
| from                         | 140 rpm   |
| up to                        | 1870 rpm  |
| Feeds:                       |           |
| from                         | 0.05 mm/r |
| up to                        | 0.6 mm/r  |

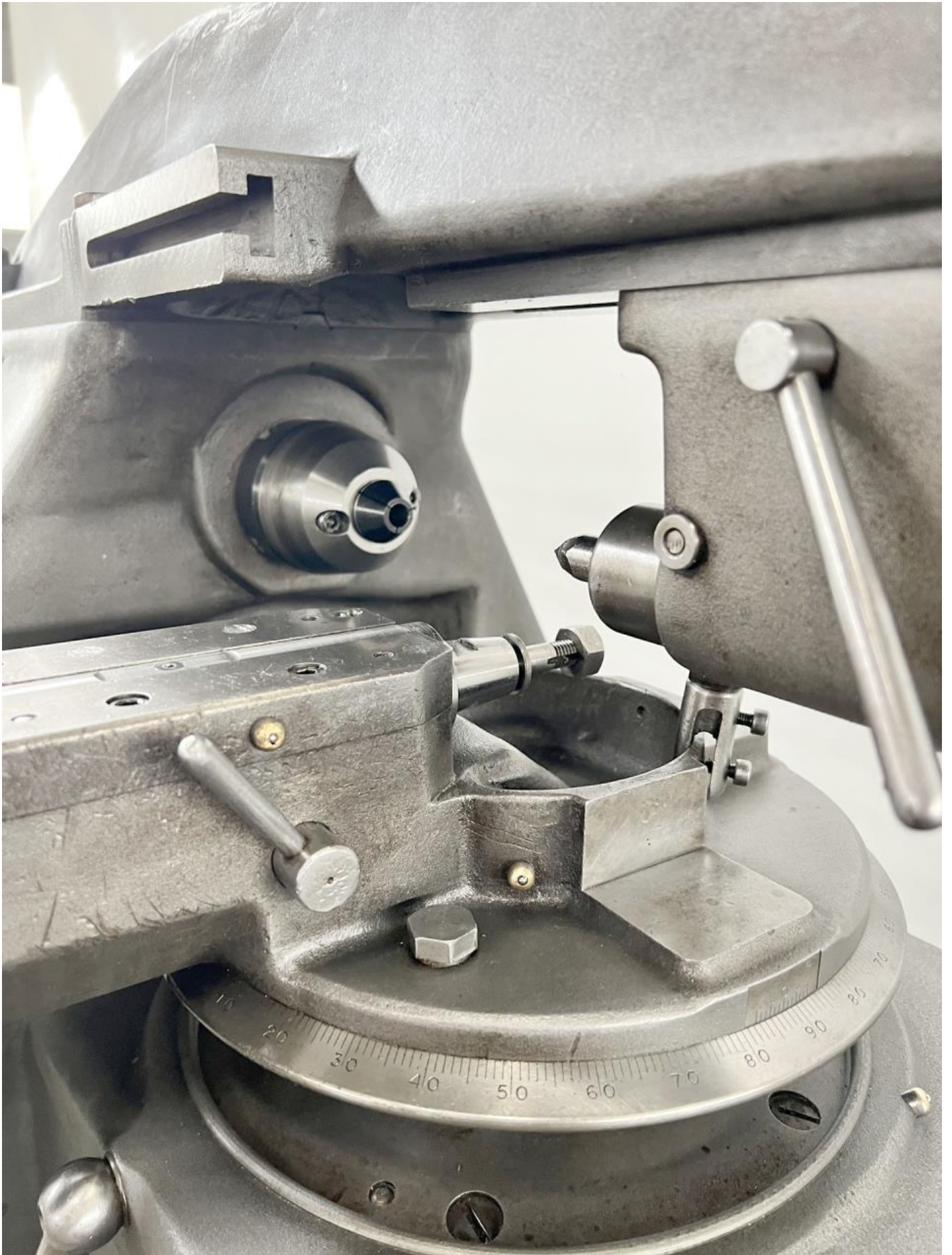
|                             |          |          |
|-----------------------------|----------|----------|
| Voltage                     | 50 Hz 3x | 380 Volt |
| Power                       |          | 0.75 kW  |
| Total power required        |          | 0.85 kW  |
| Machine's weight about      |          | 800 kg   |
| Overall dimensions machine: |          |          |
| Length                      |          | 1200 mm  |
| Width                       |          | 700 mm   |
| Height                      |          | 1600 mm  |
| Various accessories:        |          |          |
| Worm wheel milling device   |          |          |



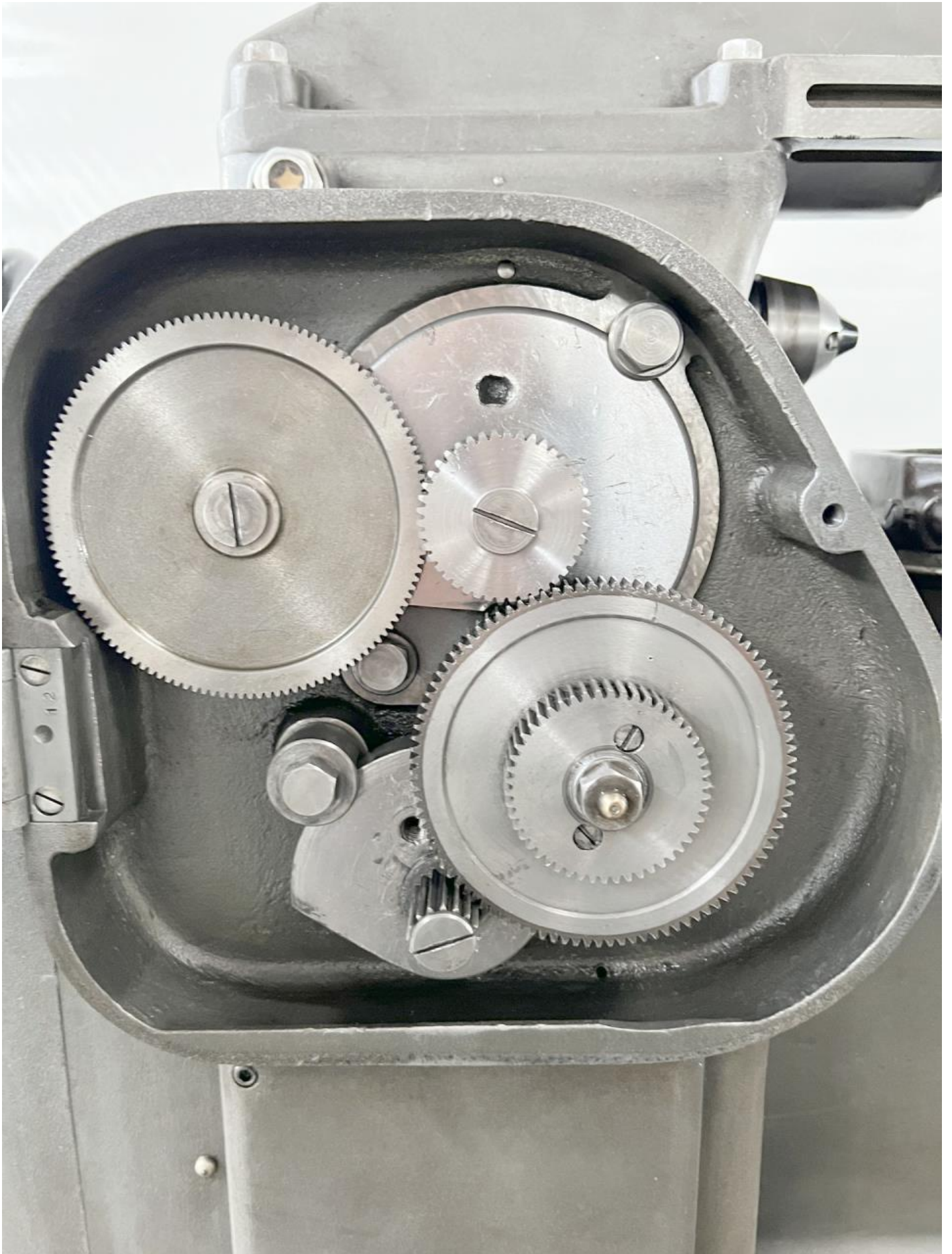


















d'hélice -- Spiral -- Helix

| Module | DP  | Ø Fraise -- Fräser Ø -- Hob Ø |                 |                 |                 |
|--------|-----|-------------------------------|-----------------|-----------------|-----------------|
|        |     | 40 mm<br>1 9/16"              | 32 mm<br>1 1/4" | 24 mm<br>15/16" | 18 mm<br>11/16" |
| 0.1    | 250 | 8'                            | 10'             | 15'             | 20'             |
| 0.15   | 170 | 13'                           | 15'             | 20'             | 25'             |
| 0.2    | 125 | 17'                           | 20'             | 30'             | 40'             |
| 0.25   | 100 | 20'                           | 25'             | 35'             | 50'             |
| 0.3    | 85  | 25'                           | 35'             | 45'             | 1°              |
| 0.35   | 72  | 30'                           | 40'             | 50'             | 1° 10'          |
| 0.4    | 64  | 35'                           | 45'             | 1°              | 1° 20'          |
| 0.45   | 56  | 40'                           | 50'             | 1° 10'          | 1° 30'          |
| 0.5    | 50  | 45'                           | 55'             | 1° 15'          | 1° 40'          |
| 0.55   | 46  | 50'                           | 1°              | 1° 25'          | 1° 50'          |
| 0.6    | 42  | 55'                           | 1° 10'          | 1° 30'          | 2° 05'          |
| 0.65   | 40  | 1°                            | 1° 15'          | 1° 40'          | 2° 15'          |
| 0.7    | 36  | 1° 05'                        | 1° 20'          | 1° 50'          | 2° 30'          |
| 0.75   | 34  | 1° 10'                        | 1° 25'          | 1° 55'          | 2° 40'          |
| 0.8    | 32  | 1° 10'                        | 1° 30'          | 2° 05'          | 2° 50'          |
| 0.85   | 30  | 1° 15'                        | 1° 40'          | 2° 15'          | 3°              |
| 0.9    | 28  | 1° 20'                        | 1° 45'          | 2° 20'          | 3° 15'          |
| 0.95   | 27  | 1° 25'                        | 1° 50'          | 2° 30'          | 3° 20'          |
| 1      | 25  | 1° 30'                        | 1° 55'          | 2° 40'          |                 |
| 1,05   | 24  | 1° 35'                        | 2° 05'          | 2° 50'          |                 |
| 1,1    | 23  | 1° 40'                        | 2° 10'          | 3°              |                 |
| 1,15   | 22  | 1° 45'                        | 2° 15'          | 3° 10'          |                 |
| 1,2    | 21  | 1° 50'                        | 2° 20'          | 3° 20'          |                 |
| 1,25   | 20  | 1° 55'                        | 2° 30'          |                 |                 |
| 1,4    | 18  | 2° 10'                        | 2° 50'          |                 |                 |
| 1,5    | 17  | 2° 20'                        | 3°              |                 |                 |
| 1,6    | 16  | 2° 30'                        | 3° 15'          |                 |                 |
| 1,75   | 15  | 2° 45'                        | 3° 35'          |                 |                 |
| 1,8    | 14  | 2° 55'                        |                 |                 |                 |
| 2      | 13  | 3° 15'                        |                 |                 |                 |
| 2,1    | 12  | 3° 30'                        |                 |                 |                 |

**MIKRON S.A.**  
Bienne Suisse