

## 08 Series

| FZ 08 S five axis baseline     | <table border="1"> <thead> <tr> <th colspan="2" data-bbox="513 417 1445 449">Process advantages</th> </tr> </thead> <tbody> <tr> <td data-bbox="513 449 971 483">Travel / Rapid feed X-Y-Z</td> <td data-bbox="971 449 1445 483">450-270-310 mm / 60-60-60 m/min</td> </tr> <tr> <td data-bbox="513 483 971 522">Number of tools / Tool taper</td> <td data-bbox="971 483 1445 522">40 / HSK-A40</td> </tr> <tr> <td data-bbox="513 522 971 556">Main spindle drive</td> <td data-bbox="971 522 1445 556"></td> </tr> <tr> <td data-bbox="513 556 971 590">Power / Spindle speed / Torque</td> <td data-bbox="971 556 1445 590">7,4 kW / 15.000 rpm / 23 Nm</td> </tr> <tr> <td data-bbox="513 590 971 623">CNC control</td> <td data-bbox="971 590 1445 623">FANUC 31iB5</td> </tr> <tr> <td data-bbox="513 623 971 682">Table options</td> <td data-bbox="971 623 1445 682">2-axis tilt rotary table with NC rotary table face plate</td> </tr> <tr> <td data-bbox="513 682 971 716">Delivery availability</td> <td data-bbox="971 682 1445 716">2-3 Months</td> </tr> <tr> <td data-bbox="513 716 971 749">Warranty</td> <td data-bbox="971 716 1445 749">12 Months</td> </tr> <tr> <td data-bbox="513 749 971 783">Year of construction</td> <td data-bbox="971 749 1445 783">2021</td> </tr> </tbody> </table>                       | Process advantages |  | Travel / Rapid feed X-Y-Z | 450-270-310 mm / 60-60-60 m/min  | Number of tools / Tool taper | 40 / HSK-A40 | Main spindle drive |  | Power / Spindle speed / Torque | 7,4 kW / 15.000 rpm / 23 Nm | CNC control | FANUC 31iB5                | Table options | 2-axis tilt rotary table with NC rotary table face plate | Delivery availability | 2-3 Months | Warranty | 12 Months | Year of construction | 2021 |
|--------------------------------|---|--------------------|--|---------------------------|----------------------------------|------------------------------|--------------|--------------------|--|--------------------------------|-----------------------------|-------------|----------------------------|---------------|--|-----------------------|------------|----------|-----------|----------------------|------|
| Process advantages             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Travel / Rapid feed X-Y-Z      | 450-270-310 mm / 60-60-60 m/min   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Number of tools / Tool taper   | 40 / HSK-A40  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Main spindle drive             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Power / Spindle speed / Torque | 7,4 kW / 15.000 rpm / 23 Nm   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| CNC control                    | FANUC 31iB5   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Table options                  | 2-axis tilt rotary table with NC rotary table face plate  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Delivery availability          | 2-3 Months  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Warranty                       | 12 Months   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Year of construction           | 2021  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| FZ 08 MT precision+            | <table border="1"> <thead> <tr> <th colspan="2" data-bbox="513 806 1445 837">Process advantages</th> </tr> </thead> <tbody> <tr> <td data-bbox="513 837 971 871">Travel / Rapid feed X-Y-Z</td> <td data-bbox="971 837 1445 871">210-200-360 mm / 75-75-75 m/min</td> </tr> <tr> <td data-bbox="513 871 971 911">Number of tools / Tool taper</td> <td data-bbox="971 871 1445 911">60 / HSK-E32</td> </tr> <tr> <td data-bbox="513 911 971 945">Main spindle drive</td> <td data-bbox="971 911 1445 945"></td> </tr> <tr> <td data-bbox="513 945 971 978">Power / Spindle speed / Torque</td> <td data-bbox="971 945 1445 978">5,2 kW / 54.000 rpm / 2 Nm</td> </tr> <tr> <td data-bbox="513 978 971 1012">CNC control</td> <td data-bbox="971 978 1445 1012">FANUC 31iB5</td> </tr> <tr> <td data-bbox="513 1012 971 1045">Table options</td> <td data-bbox="971 1012 1445 1045">Turning- / Counter spindle Ø 32 mm</td> </tr> <tr> <td data-bbox="513 1045 971 1079">Delivery availability</td> <td data-bbox="971 1045 1445 1079">2-3 Months</td> </tr> <tr> <td data-bbox="513 1079 971 1113">Warranty</td> <td data-bbox="971 1079 1445 1113">6 Months</td> </tr> <tr> <td data-bbox="513 1113 971 1146">Year of construction</td> <td data-bbox="971 1113 1445 1146">2014</td> </tr> </tbody> </table>                             | Process advantages |  | Travel / Rapid feed X-Y-Z | 210-200-360 mm / 75-75-75 m/min  | Number of tools / Tool taper | 60 / HSK-E32 | Main spindle drive |  | Power / Spindle speed / Torque | 5,2 kW / 54.000 rpm / 2 Nm  | CNC control | FANUC 31iB5                | Table options | Turning- / Counter spindle Ø 32 mm                       | Delivery availability | 2-3 Months | Warranty | 6 Months  | Year of construction | 2014 |
| Process advantages             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Travel / Rapid feed X-Y-Z      | 210-200-360 mm / 75-75-75 m/min   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Number of tools / Tool taper   | 60 / HSK-E32  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Main spindle drive             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Power / Spindle speed / Torque | 5,2 kW / 54.000 rpm / 2 Nm  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| CNC control                    | FANUC 31iB5   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Table options                  | Turning- / Counter spindle Ø 32 mm  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Delivery availability          | 2-3 Months  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Warranty                       | 6 Months  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Year of construction           | 2014  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| FZ 08 FX precision+            | <table border="1"> <thead> <tr> <th colspan="2" data-bbox="513 1190 1445 1222">Process advantages</th> </tr> </thead> <tbody> <tr> <td data-bbox="513 1222 971 1255">Travel / Rapid feed X-Y-Z</td> <td data-bbox="971 1222 1445 1255">210-270-360 mm / 75-75-100 m/min</td> </tr> <tr> <td data-bbox="513 1255 971 1295">Number of tools / Tool taper</td> <td data-bbox="971 1255 1445 1295">64 / HSK-A40</td> </tr> <tr> <td data-bbox="513 1295 971 1329">Main spindle drive</td> <td data-bbox="971 1295 1445 1329"></td> </tr> <tr> <td data-bbox="513 1329 971 1362">Power / Spindle speed / Torque</td> <td data-bbox="971 1329 1445 1362">14,5 kW / 30.000 rpm / 7 Nm</td> </tr> <tr> <td data-bbox="513 1362 971 1396">CNC control</td> <td data-bbox="971 1362 1445 1396">FANUC 31iB5</td> </tr> <tr> <td data-bbox="513 1396 971 1430">Table options</td> <td data-bbox="971 1396 1445 1430">2-axis tilt rotary table</td> </tr> <tr> <td data-bbox="513 1430 971 1463">Delivery availability</td> <td data-bbox="971 1430 1445 1463">2-3 Months</td> </tr> <tr> <td data-bbox="513 1463 971 1497">Warranty</td> <td data-bbox="971 1463 1445 1497">6 Months</td> </tr> <tr> <td data-bbox="513 1497 971 1530">Year of construction</td> <td data-bbox="971 1497 1445 1530">2018</td> </tr> </tbody> </table>                 | Process advantages |  | Travel / Rapid feed X-Y-Z | 210-270-360 mm / 75-75-100 m/min | Number of tools / Tool taper | 64 / HSK-A40 | Main spindle drive |  | Power / Spindle speed / Torque | 14,5 kW / 30.000 rpm / 7 Nm | CNC control | FANUC 31iB5                | Table options | 2-axis tilt rotary table                                 | Delivery availability | 2-3 Months | Warranty | 6 Months  | Year of construction | 2018 |
| Process advantages             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Travel / Rapid feed X-Y-Z      | 210-270-360 mm / 75-75-100 m/min  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Number of tools / Tool taper   | 64 / HSK-A40  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Main spindle drive             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Power / Spindle speed / Torque | 14,5 kW / 30.000 rpm / 7 Nm   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| CNC control                    | FANUC 31iB5   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Table options                  | 2-axis tilt rotary table  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Delivery availability          | 2-3 Months  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Warranty                       | 6 Months  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Year of construction           | 2018  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| FZ 08 FX precision+            | <table border="1"> <thead> <tr> <th colspan="2" data-bbox="513 1583 1445 1614">Process advantages</th> </tr> </thead> <tbody> <tr> <td data-bbox="513 1614 971 1648">Travel / Rapid feed X-Y-Z</td> <td data-bbox="971 1614 1445 1648">210-270-360 mm / 75-75-100 m/min</td> </tr> <tr> <td data-bbox="513 1648 971 1688">Number of tools / Tool taper</td> <td data-bbox="971 1648 1445 1688">40 / HSK-E40</td> </tr> <tr> <td data-bbox="513 1688 971 1722">Main spindle drive</td> <td data-bbox="971 1688 1445 1722"></td> </tr> <tr> <td data-bbox="513 1722 971 1755">Power / Spindle speed / Torque</td> <td data-bbox="971 1722 1445 1755">14,5 kW / 40.000 rpm / 7 Nm</td> </tr> <tr> <td data-bbox="513 1755 971 1789">CNC control</td> <td data-bbox="971 1755 1445 1789">SIEMENS 840D solution line</td> </tr> <tr> <td data-bbox="513 1789 971 1822">Table options</td> <td data-bbox="971 1789 1445 1822">2-axis tilt rotary table</td> </tr> <tr> <td data-bbox="513 1822 971 1856">Delivery availability</td> <td data-bbox="971 1822 1445 1856">2-3 Months</td> </tr> <tr> <td data-bbox="513 1856 971 1890">Warranty</td> <td data-bbox="971 1856 1445 1890">12 Months</td> </tr> <tr> <td data-bbox="513 1890 971 1923">Year of construction</td> <td data-bbox="971 1890 1445 1923">2019</td> </tr> </tbody> </table> | Process advantages |  | Travel / Rapid feed X-Y-Z | 210-270-360 mm / 75-75-100 m/min | Number of tools / Tool taper | 40 / HSK-E40 | Main spindle drive |  | Power / Spindle speed / Torque | 14,5 kW / 40.000 rpm / 7 Nm | CNC control | SIEMENS 840D solution line | Table options | 2-axis tilt rotary table                                 | Delivery availability | 2-3 Months | Warranty | 12 Months | Year of construction | 2019 |
| Process advantages             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Travel / Rapid feed X-Y-Z      | 210-270-360 mm / 75-75-100 m/min  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Number of tools / Tool taper   | 40 / HSK-E40  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Main spindle drive             |   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Power / Spindle speed / Torque | 14,5 kW / 40.000 rpm / 7 Nm   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| CNC control                    | SIEMENS 840D solution line  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Table options                  | 2-axis tilt rotary table  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Delivery availability          | 2-3 Months  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Warranty                       | 12 Months   |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |
| Year of construction           | 2019  |                    |  |                           |                                  |                              |              |                    |  |                                |                             |             |                            |               |  |                       |            |          |           |                      |      |

## 12 Series

FZ 12 S five axis



| Process advantages             |                                 |
|--------------------------------|---------------------------------|
| Travel / Rapid feed X-Y-Z      | 550-400-400 mm / 75-75-75 m/min |
| Number of tools / Tool taper   | 64 / HSK-A63                    |
| Main spindle drive             |                                 |
| Power / Spindle speed / Torque | 26,5 kW / 12.000 rpm / 110 Nm   |
| CNC control                    | HEIDENHAIN TNC 640              |
| Table options                  | 2-axis tilt rotary table        |
| Delivery availability          | 2-3 Months                      |
| Warranty                       | 6 Months                        |
| Year of construction           | 2017                            |

DZ 12 S five axis



| Process advantages             |                                 |
|--------------------------------|---------------------------------|
| Travel / Rapid feed X-Y-Z      | 550-400-400 mm / 75-75-75 m/min |
| Number of tools / Tool taper   | 2x 52 / HSK-A63                 |
| Main spindle drive             |                                 |
| Power / Spindle speed / Torque | 44,0 kW / 16.000 rpm / 59 Nm    |
| CNC control                    | SIEMENS 840D solution line      |
| Table options                  | 2-axis tilt rotary table        |
| Delivery availability          | 2 Months                        |
| Warranty                       | 12 Months                       |
| Year of construction           | 2019                            |

## 15 Series

FZ 15 W baseline



| Process advantages             |                                 |
|--------------------------------|---------------------------------|
| Travel / Rapid feed X-Y-Z      | 550-400-425 mm / 40-40-40 m/min |
| Number of tools / Tool taper   | 20 / HSK-A63                    |
| Main spindle drive             |                                 |
| Power / Spindle speed / Torque | 23,3 kW / 10.500 rpm / 95 Nm    |
| CNC control                    | SIEMENS 840D solution line      |
| Table options                  | Workpiece changing device       |
| Delivery availability          | Immediately                     |
| Warranty                       | 12 Months                       |
| Year of construction           | 2021                            |

FZ 15 W baseline



| Process advantages             |                                 |
|--------------------------------|---------------------------------|
| Travel / Rapid feed X-Y-Z      | 550-400-425 mm / 40-40-40 m/min |
| Number of tools / Tool taper   | 20 / SK-40                      |
| Main spindle drive             |                                 |
| Power / Spindle speed / Torque | 23,3 kW / 10.500 rpm / 95 Nm    |
| CNC control                    | SIEMENS 840D solution line      |
| Table options                  | Workpiece changing device       |
| Delivery availability          | Immediately                     |
| Warranty                       | 12 Months                       |
| Year of construction           | 2021                            |

## 16 Series

FZ 16 five axis



| Process advantages             |                                 |
|--------------------------------|---------------------------------|
| Travel / Rapid feed X-Y-Z      | 660-660-400 mm / 75-75-75 m/min |
| Number of tools / Tool taper   | 162 / HSK-A63 (HSK-T possible)  |
| Main spindle drive             |                                 |
| Power / Spindle speed / Torque | 59 kW / 20.000 rpm / 137 Nm     |
| CNC control                    | HEIDENHAIN TNC 640              |
| Table options                  | 2-axis tilt rotary table        |
| Delivery availability          | 2-3 Months                      |
| Warranty                       | 12 Months                       |
| Year of construction           | 2019                            |

DZ 16 W



| Process advantages             |                                   |
|--------------------------------|-----------------------------------|
| Travel / Rapid feed X-Y-Z      | 340-450-400 mm / 75-75-75 m/min   |
| Number of tools / Tool taper   | 2 x 28 / HSK-A63 (HSK-T possible) |
| Main spindle drive             |                                   |
| Power / Spindle speed / Torque | 57 kW / 20.000 rpm / 110 Nm       |
| CNC control                    | SIEMENS 840D solution line        |
| Table options                  | Workpiece changing device         |
| Delivery availability          | 2 Months                          |
| Warranty                       | 12 Months                         |
| Year of construction           | 2021                              |