## MAX DRILL PRODUCTS:

CNC LATHE SERIES

- vertical machining center series
- horizontal machining center series

|  | BT/MT/MTY/RT SERIES |  |  |  |  |  | BT/MT/MTY / RT SERIES |  |  |  |  | AERO TURN CNC LATHE RT-280 SERIES/ |  |  |  |  | BT-300 SERIES |  | BT-380 SERIES |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standard and options | $\begin{aligned} & \text { RT-280 } \\ & \text { SERIISS } \end{aligned}$ | $\begin{gathered} \text { BT-300 } \\ \text { STRPIES } \end{gathered}$ | $\begin{gathered} \text { BT-380 } \\ \text { SFRIES } \end{gathered}$ | $\begin{aligned} & \text { MT-300 } \\ & \text { MT- } 7000 \mathrm{y} \end{aligned}$ | $\xrightarrow{\text { MT-380 }}$ | Standard and options | $\begin{gathered} \text { RT-280 } \\ \text { crevic } \end{gathered}$ SERIES | $\begin{gathered} \text { BT-300 } \\ \text { CDEIITC } \end{gathered}$ | $\begin{gathered} \text { BT-380 } \\ \text { SRRIES } \end{gathered}$ | $\xrightarrow{\text { MT-300 }}$ | $\underset{\substack{\text { MT-380 } \\ \mathrm{MT}-380 \mathrm{Y}}}{\substack{\text { and }}}$ | MACHINE SPECIFI | cations |  | RT-280 | ${ }^{\text {Br-300 }}$ | Br-3002 | ${ }_{\text {Br-300xL }}$ | ${ }^{\text {Br-380 }}$ | ${ }^{\text {Br-380 }}$ | ${ }_{\text {Br-380xL }}$ |
| Splinde |  |  |  |  |  | Micro-Coolant System | SERIES | SERES | SERIES | SERİS | SERIES | Capacity | Max. Swing Over Bed | mm | 470 | 600 | 600 | 600 | 600 | 600 | 600 |
| Rigid Tapping | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - | AUTO ACCESSORIES |  |  |  |  |  |  | Max. Swing Over Cross Slide | mm | 285 | 400 | 400 | 400 | 400 | 400 | 400 |
| Multiple Position Indexing | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | Auto Tool Setter (Renishaw) | - | - | - | - | - |  | Max. Turning Diameter | mm | 260 | 410 | 410 | 410 | 410 | 410 | 410 |
| Elarge Hole Chuck System | x | 5 | $\bigcirc$ | 5 | $\bigcirc$ | Manual Tool Setter | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | Spindle | Max Turning Length | mm | 500 | 500 | 750 | 1000 | 500 | 750 | 1000 |
|  | + | x $\times$ $\times$ | x | 5 | s | ${ }^{\text {Part Catcher }}$ Part Catcher (Conveyor Type) | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | Spindle Nose | ASA | A2-6 | A2-6 | A2-6 | A2-6 | A2-8 | A2-8 | A2.8 |
| Sub-Spindle+CS axis+Disk Braking | $\times$ | $\times$ | $\times$ | - | - | Auto Barfeeder / Interface | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | Chuck size | mm | $8^{8 \prime}$ | $8{ }^{8 / 10^{\circ}}$ | $8^{\prime \prime} 10^{\circ}$ | $88^{\prime \prime} 10^{\prime \prime}$ | $12^{*}$ | $12^{-}$ | $12^{2}$ |
| One Each Set Hard / Soft Jaw | 5 | 5 | 5 | 5 | 5 | Bridge Tye Loadin/ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | Spindle Eore Hole | mm | 65 | 76 | 76 | 76 | 92 | 92 | 92 |
| Collect System Special Chuck | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | Auto Door | - | $\bigcirc$ | 0 | - | 。 |  | Spinde Speed | rpm | 4500 | $8: 4200$ | $\mathrm{g}^{8}: 4200$ | $\mathrm{g}^{8}: 4200$ | 3200 | 3200 | 3200 |
| turret |  |  |  |  |  | Spinde Air flow | - | - | - | - | - |  | Spinde Motor | Hp | 15 | - | 20 | 20 | 25 | 25 | 25 |
| 10 Station Hydralic Turret | x | $s$ | $s$ | x | x | Safety srstem |  |  |  |  |  |  |  |  | 15 |  |  |  |  |  |  |
| 10 Station Servo Turret | 5 | $\bigcirc$ | $\bigcirc$ | $\times$ | $\times$ | Door Interlock | $\bigcirc$ | $\bigcirc$ | 0 | $\bigcirc$ | $\bigcirc$ |  | Bar Material Thu Dia | mm | 52 | 65 | 65 | 65 | 76 | 76 | 76 |
| 12 Station Hydraulic Turret | $\times$ | $\bigcirc$ | $\bigcirc$ | x | x | ${ }^{\text {Tin }}$ Twin-layer Safety Window | 5 | s | 5 | 5 | s | Travel | $z$ Axis Travel | mm | 510 | 550 | 800 | 1050 | 550 | 800 | 1050 |
| 12 Station Sevo Turret | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\times$ | + | CEs System ${ }^{\text {Hetect }}$ | ¢ | ¢ | s | ¢ | ¢ |  | X Axis Travel | mm | 320 | 230 (25+205) | 230 (25+205) | 230 (25+205) | 230 (25+205) | 230 (25+205) | 230 (25+205) |
| 12 Station Vol Servo Turet | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\times$ | $\times$ | Part clamping system |  |  |  |  |  | Rapid Feed Rate | z Axis Rapid Traverse | M/min | 30 | 24 | 24 | 24 | 24 | 24 | 24 |
| 12 Sta. Power Turret (BARUFFALDI) | $\times$ | $\times$ |  | 5 |  | Bar Stopper | 0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | X Axis Rapid Traerse | M/min | ${ }^{30}$ | 20 | 20 | 20 | 20 | 20 | 20 |
| Tool Holder \& Sleeve | s | s | 5 | $\bigcirc$ | $\bigcirc$ | Chuck Foot Pad | $s$ | $s$ | $s$ | s | $s$ |  |  |  |  |  |  |  |  |  |  |
| Power Tool Holder | $\times$ | $\times$ | x | - | - | Tailsock foot Pad | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - | $\bigcirc$ | Turret | Number of Tools | units | 10 | $10 / 12$ (0pt.) | $10 / 12$ (0pt.) | $10 / 12$ (0pt) | $10 / 12$ (0pt) | $10 / 12$ (0pt.) | $10 / 12$ (0pt.) |
| Vol Tool Holder \& Sleeve | $\bigcirc$ | $\bigcirc$ | - | - | - | Hydraulic Steady Rest | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  | Turning Tool Size | mm | $\square 25$ | $\square 25$ | $\square 25$ | $\square 25$ | $\square 25$ | $\square 25$ | $\square 25$ |
| TAlLsToCk | 5 | 5 | 5 | 5 | 5 | Manual Steady Rest Chuck High / ow Pressure | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | Boring Tool Size | mm | ${ }^{63}$ | ${ }^{6} 40$ | ${ }^{8} 40$ | ${ }_{8} 40$ | ه40/850 (0pt) | ø $40 / 850$ (0pt) | $\varnothing 40 / 850$ (0pt.) |
| Programmable Live Center | $\bigcirc$ | - | - |  | 0 | OTHERS |  |  |  |  |  |  | Tailsock Travel | mm | 250 | 580 | 830 | 1080 | 580 | 830 | 1080 |
| Programmable Tailstock (Saddle Type) | $\times$ | - | - | - | - | Transformer | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | 0 | Tailstock | Quill Travel |  |  | 100 | 100 | 100 | 100 | 100 | 100 |
| Programmable Tailsock (Ball Screw Type) | $\times$ | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | Oil Mist | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |  |  |  |  |
| Built-In Taistock | $\bigcirc$ | $\bigcirc$ | - | $\bigcirc$ | - | Chip Conveyor | 5 | 5 | 5 | 5 | 5 |  | Quill Diameter | mm | 70 | 85 | 85 | 85 | 85 | ${ }^{85}$ | 85 |
| COOLANT |  |  |  |  |  | Tool Box | 5 | 5 | 5 | 5 | 5 |  | Taper Center | mт | 4 | 5 | 5 | 5 | 5 | 5 | 5 |
| High Pressure Pump Oil Mist | ¢ | ${ }^{\text {s }}$ | ${ }^{\text {s }}$ | ¢ | ${ }^{\text {s }}$ | ${ }^{\text {3 }}$-.Color Light | s | s | s | s | s | Measurement | Floor Space | mm | $2350 \times 1500$ | $2750 \times 1800$ | $3000 \times 1800$ | 3550 1800 | $2750 \times 1800$ | $3000 \times 1800$ | $3550 \times 1800$ |
| Coolant Sun | - | - | - | - | - | Auto Lubrication | 5 | 5 | $s$ | 5 | 5 |  | Machine Height | mm | 1726 | 1860 | 1860 | 1950 | 1860 | 1860 | 1950 |
| Coolant Flush System for Inside Cover | $s$ | $s$ | $s$ | $s$ | $s$ | Live Center | 5 | $s$ | $s$ | $s$ | s |  | Net Weight | kg | 3500 | 4800 | 5300 | 5700 | 5000 | 5500 |  |
| Coolant on Spinde side | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - | 10.44 Screen | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $s$ | s |  |  |  |  |  |  |  |  |  |  |

AERO TURN CNC LATHE BT/MT SERIES With surpass competitors design, this machine offers EXCELLENT TECHNOLOGY IS OUR BASIC REQUIREMENT $\begin{aligned} & \text { not only superior heavy cutting ability, but also better } \\ & \text { finishing surface and accuracy than linear way machine. }\end{aligned}$


CUTTING CONTINUOUS TEST RESULT

## Cutting Conditions

| Process | Single side rough turning: 2 mm |
| :--- | :--- |
|  |  |


| Process | Finishing turning: 0.1 mm |
| :--- | :--- |

Workpiece material: 545 C
Workpiece quantity: 50pcs / continuous
Testing machine selected by random

Surface roughness: Ra $0.27 \mu \mathrm{~m}$ Roundness: $0.62 \mu \mathrm{~m}$
(Certificated by Metal Industries R\&D Center)

## Cutting Conditions

Workpiece material: Brass
Insert material: KPD (Diamond)

$$
\text { Toolnose: } 0.4
$$

$$
\text { Cutting depth: } 0.03 \mathrm{~mm} \text { (Each side) }
$$

## Unitumm 66.997 6696 66995 66.94 66993 66992 66991 66.90 66999 66988 66897



Feed rate: $0.02 \mathrm{~mm} /$ rev
speed: 2500rpm Workpiece dia.: $\$ 40 \mathrm{~mm}$

ぼTOMJMMIC DESIGN


|  | AERO TURN CNC LATHE |  | MT-300 SERIES |  |  | MT-380 SERIES |  |  | AERO TURN CNC LATHE |  |  | MT-300Y SERIES |  | MT-380Y SERIES |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capacity | MACHINE SPECIFICATIONS |  | мт-300 | Mr-300L | MT-300xL | mт-380 | мт-380L | MT-380xL | Capacity | Machine specilications |  | mT-3001Y | MT-30xLIY | mr-380LY | mT-380xıY |
|  | Max. Swing over Bed | mm | 600 | 600 | 600 | 600 | 600 | 600 |  | Max. Swing Over Bed | mm | 600 | 600 | 600 | 600 |
|  | Max. Swing Over Cross slide | mm | 400 | 400 | 400 | 400 | 400 | 400 |  | Max. Swing Over Cross side | mm | 400 | 400 | 400 | 400 |
|  | Max. Turning Diameter | mm | 310 | 310 | 310 | 310 | 310 | 310 |  | Max. Turning Diameter | mm | 310 | 310 | 310 | 310 |
|  | Max. Turning Length | mm | 530 | 780 | 1030 | 525 | 775 | 1025 |  | Max. Turning Length | mm | 780 | 1030 | 775 | 1025 |
| Spinde | Spinde Nose | ASA | A2-6 | A2-6 | A2-6 | A2-8 | A2-8 | A2-8 | Spindle | Spindle Nose | ASA | A2-6 | A2-6 | A2-8 | A2.8 |
|  | Chuck Size | inch | $10^{\circ}$ | $10^{\circ}$ | $10^{\circ}$ | $12^{*}$ | $12^{*}$ | $12^{*}$ |  | Chuck Size | inch | $10^{\circ}$ | $10^{\circ}$ | $12^{\text {. }}$ | $12^{\prime \prime}$ |
|  | Spindle Bre Hole | mm | 76 | 76 | 76 | 92 | 92 | 92 |  | Spindle Bre Hole | mm | 76 | 76 | 92 | 92 |
|  | Spindle Speed | rpm | 4200 | 4200 | 4200 | 3500 | 3500 | 3500 |  | Spindle Speed | rpm | 4200 | 4200 | 3500 | 3500 |
|  | Spinde Motor | HP | 20 | 20 | 20 | 25 | 25 | 25 |  | Spindle Motor | HP | 20 | 20 | 25 | 25 |
|  | Bar Material Thru Dia | mm | 65 | 65 | 65 | 76 | 76 | 76 |  | Bar Material Thru Dia | mm | 66 | 66 | 78 | 78 |
| Travel | $z$ Axis Travel | mm | 580 | 830 | 1080 | 580 | 830 | 1080 | Travel | Z Axis Travel X Axis Travel | mm | $\begin{gathered} 790 \\ 230(10+220) \end{gathered}$ |  | $\begin{gathered} 790 \\ 230(10+220) \end{gathered}$ |  |
|  | x Axis Travel | mm | 230 (10+220) | 230 (10+220) | 230 (10+220) | 230 (10+220) | 230 (10+220) | 230 (10+220) |  |  | ${ }_{\substack { \text { m } \\ \begin{subarray}{c}{\text { m }{ \text { m } \\ \begin{subarray} { c } { \text { m } } }\end{subarray}}$ |  |  |  | $\begin{gathered} 230(10+220) \\ \pm 50 \\ \pm 50 \end{gathered}$ |
| Rapid Feed Rate | 2 A Axis Rapid Trverse | ${ }_{\text {M/min }}^{\text {Mmin }}$ | 24 20 | 24 <br> 20 <br> 12 | 24 20 12 | 24 20 | 24 20 12 | 24 20 | Rapid Feed Rate | Z Axis Rapid Traverse | ${ }_{M \text { Mmin }}^{\text {min }}$ |  |  |  |  |
|  | X Axis Rapid Traverse | M $/$ min | 20 | 20 | 20 | 20 | 20 | 20 |  | Y Axis Rapid Treverse |  | $\begin{aligned} & 20 \\ & 20 \\ & 10 \end{aligned}$ | 20 | 242010 |  |
| Turret | Number of Tools | units | 12 | 12 | 12 | 12 | 12 | 12 |  |  | units | 12 | ${ }^{12}$ |  | 12 |
|  | Turning Tool Size | mm | $\square 25$ | $\square 25$ | $\square 25$ | $\square 25$ | $\square 25$ | $\square 25$ | Turret |  |  | $\square 25$ | ${ }_{640}$ | 12 $\square$ $\square$ | $\square 25$ |
|  | Boring Tool Size | mm | ${ }_{6} 40$ | ${ }_{8} 40$ | ${ }_{8} 40$ | ${ }_{6} 40$ | ${ }_{8} 40$ | ${ }_{6} 40$ |  |  |  | ${ }_{\square} 40$ |  | $\varnothing 40$$\text { TBMR } 200$ | TBMR 200 |
|  | Power Turret |  | темА-200 | темА-200 | темА-200 | темА-200 | твмА-200 | темА-200 |  | Power Turret |  | TеMR 200 | Sero |  |  |
|  | Indexing Type |  | Sero | Sero | Sero | Sero | Sero | Sero |  | Indexing Type |  | Seno |  |  | $\begin{gathered} \text { Servo } \\ 40 \text { (IN1809) } \end{gathered}$ |
|  | Tool Holder | mm | 40 (IIN1809) | 40 (IDN1809) | 40 (IN18099) | 40 ( (IN1809) | 40 ( (IN1809) | 40 (IIN1809) |  | Endmiling Capability $\quad m m \times m m \times m m /$ min |  |  | ${ }^{40} 825 \times 18 \times 14 \times 4090$ |  |  |
|  | Endmiling Capability | $m m \times m m \times m m m i n$ | $025 \times 14 \times 40$ | ¢ $25 \times 14 \times 40$ | ${ }^{2} 25 \times 14 \times 40$ | $825 \times 14 \times 40$ | $825 \times 14 \times 40$ | ¢ $25 \times 14 \times 40$ |  |  |  | ${ }^{40} 250 \times 10 \times 14 \times 4090$ |  | ${ }^{6} 25 \times 14 \times 40$ |  |
|  | Tapping Capability | mm×p | M16×2 | M16×2 | M16x2 | M16×2 | M16x2 | M16x2 |  | Tapping Capability Drilling Capability | mm×p |  | $\mathrm{M} 16 \times 2$ <br> $\varnothing 20 \times 0.2$ | M16 x 2 <br> $\varnothing 20 \times 0.2$ | $\mathrm{M} 16 \times 2$$\varnothing 20 \times 0.2$ | M16 $\times 2$$820 \times 0.2$ |
|  | Drilling Capability | $m m \times m m$ rev | $820 \times 0.2$ | $820 \times 0.2$ | ¢ $20 \times 0.2$ | ¢ $20 \times 0.2$ | ¢ $20 \times 0.2$ | ¢ $20 \times 0.2$ |  |  | $m m \times m m m e v$ |  |  |  |  |  |
|  | Tool to Tool Change Time (Neighboring Tools) | sec | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |  | Tool to Tool Change Time (Neighboring Tools) | sec | 0.3 | 0.3 | 0.3 | 0.3 |  |
|  | Tool to Tool Change Time (Furthest Tool) | sec | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |  | Tool to Tool Change Time (Furthest Tool) | sec | 0.9 | 0.9 | 0.9 | 0. 9 |  |
| Taistock | Tailsock Travel | mm | 580 | 830 | 1080 | 580 | 830 | 1080 | Tailstock | Tailstock Travel | mm | 830 | $\begin{aligned} & 1080 \\ & 100 \end{aligned}$ | $\begin{aligned} & 830 \\ & 100 \end{aligned}$ | 1080 |  |
|  | Quill Travel | ${ }^{\text {mm }}$ | 100 | 100 | 100 | 100 | 100 | 100 |  | Quill Travel Quill Diameter | mm | 10085 |  |  | 10085 |  |
|  | Quill Diameter | mm | 85 | 85 | 85 | 85 | 85 | 85 |  |  | mm |  | 855 | 855 |  |  |
|  | Taper Center | мт | 5 | 5 | 5 | 5 | 5 | 5 |  | Taper Center | мт | 5 |  |  | 5 |  |
| Measurement | Floor Space Machine teight | ${ }_{\text {m }}^{\text {m }}$ m | $2750 \times 1800$ 1880 | $3000 \times 1800$ 1860 | $3550 \times 1800$ 1950 | $2750 \times 1800$ 1860 | $3000 \times 1800$ 1860 | $3550 \times 1800$ 1950 | Measurement | Floor Space Machine Height Net Weight | ${ }_{\text {m }}^{\text {m m }}$ | $\begin{gathered} 3000 \times 1800 \\ 1860 \\ 4700 \end{gathered}$ |  | $3000 \times 1800$18804900 | $\begin{gathered} 3550 \times 1800 \\ 1950 \\ 5100 \end{gathered}$ |  |
|  | Net Weight | kg | 4900 | 5400 | 5800 | 5100 | 5600 | 6000 |  |  | kg |  | 1950 4900 |  |  |  |



## 10.4" SCREEN+MANUAL GUIDE i



