

# VERTICAL TURNING CENTERS

## **INNOVATION** + QUALITY

#### ROMI: Producing high quality technology since 1930.

Since the beginning, Romi has been recognized for its focus on creating products and innovative solutions which has guaranteed its technological leadership among large manufacturers of machine tools.

Romi's industrial complex is among the most modern and productive sites in the fields of machine tools, plastic processing machines, and high quality cast iron parts.

### Continuous investments in Research & Development result in products with state-of-the-art technology.

The technology applied to Romi machines offers highly reliable products, with high accuracy, efficiency and great flexibility for several types of machining processes.

Romi R&D is focused on increasing competitiveness for its customers.

#### Present throughout Brazil and in over 60 countries.

Romi covers all domestic territory through its sale subsidiaries network fully prepared to support customers by supplying an extensive range of services from marketing to after sales assistance.

The international market is covered by Romi's subsidiaries which are located in the United States, Mexico, Europe, and by its many dealers located in strategic logistic centers around the globe that are capable of serving customers in 5 continents.



## **ROMI VTL** SERIES



ROMI VTL 500R ROMI VTL 500L ROMI VTL 500MR ROMI VTL 500ML ROMI VTL 700R ROMI VTL 700L ROMI VTL 700MR ROMI VTL 700ML

Technology, reliability and productivity for machining of pieces with the aid of chuck. Vertical turning centers from ROMI VTL Series were designed to operate in medium and high production environment. They have a robust structure, offer rigidity, stability and flexibility in the processes for machining several types pieces with the aid of chuck.

precision and assured productivity.



#### ROMI VTL 500L / VTL 500R

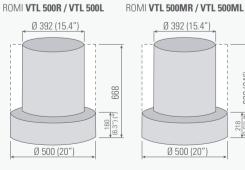
- Max. diameter allowed: Ø 740 mm (29") •
- Max. turning diameter: Ø 500 mm (20") .
- Chuck diameter: Ø 315 (12.4") or Ø 390 mm (15.4") .
- Main motor: 28 hp / 21 kW .
- Turret: 12-station for fixed tools .

#### ROMI VTL 500ML / VTL 500MR

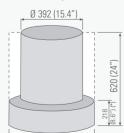
- Max. diameter allowed: Ø 740 mm (29") •
- Max. turning diameter: Ø 500 mm (20") •
- Chuck diameter: Ø 315 (12.4") or Ø 390 mm (15.4") .
- Main motor: 28 hp / 21 kW .
- Turret: 12-station BMT-65 disc for fixed and driven . tools for drilling, milling and tapping operations

## ROMI VTL 500R / VTL 500L / ROMI VTL 500MR / VTL 500ML

#### Capacity

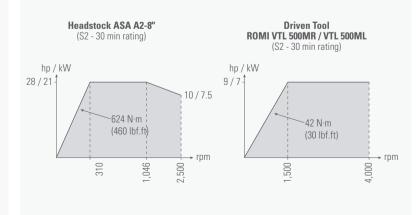


(\*) Interference area when working lenght exceeds 160 mm (6.3")



(\*) Interference area when working lenght exceeds 218 mm (8.6")

#### **Power Graphs**



Flexibilidade de trabalho para múltiplas aplicações, gerando significativo aumento de produtividade e lucratividade.



#### ROMI VTL 700L / VTL 700R

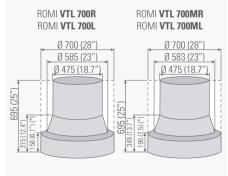
- Max. diameter allowed: Ø 750 mm (30")
- Max. turning diameter: Ø 700 mm (28")
- Chuck diameter: Ø 390 (15.4") or Ø 500 mm (20")
- Main motor: 46 hp / 34 kW
- Turret: 12-station for fixed tools

#### ROMI VTL 700ML / VTL 700MR

- Max. diameter allowed: Ø 750 mm (30")
- Max. turning diameter: Ø 700 mm (28")
- Chuck diameter: Ø 390 (15.4") or Ø 500 mm (20")
- Main motor: 46 hp / 34 kW
- Turret: 12-station BMT-65 disc for fixed and driven tools for drilling, milling and tapping operations

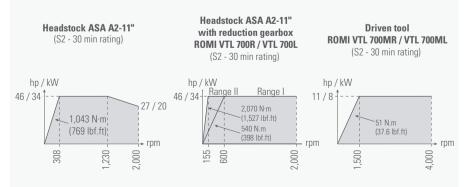
## ROMI VTL 700R / VTL 700L / ROMI VTL 700MR / VTL 700ML

#### Capacity



(\*) Interference area when working lenght exceeds 156 mm (6.1") (\*) Interference area when working lenght exceeds 190 mm (7.5")

#### **Power Graphs**





## **STRUCTURE**

#### 1 Base

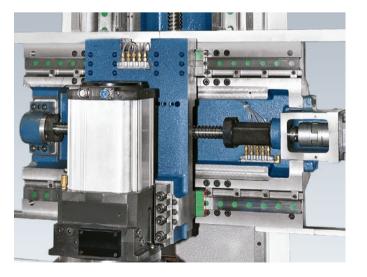
Robust monoblock base made of cast iron is designed to withstand heavy loads and absorb vibrations in severe machining conditions. It supports the motor and the headstock assemblies.

#### 2 Column

Cast iron structure which supports X and Z carriages offering rigidity and stability for machining at full power.

#### 3 Linear guides

ROMI VTL 500R, VTL 500L, VTL 500MR and ROMI VTL 500ML machines are equipped with linear roller guides in X and Z axes offering high load capacity and excellent rigidity. They are designed to withstand high machining efforts and enable feed rates up to 30 m/min. (1,181 in/min)

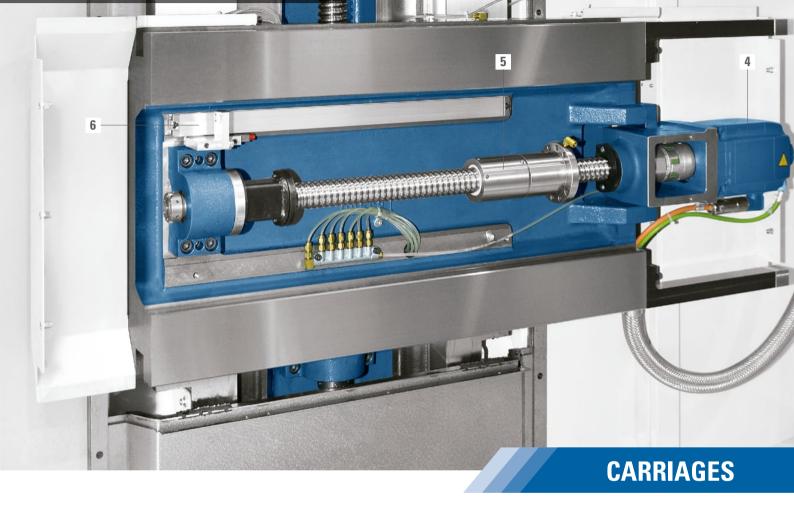


#### **Square guides**

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ROMI VTL 700R, VTL 700L, VTL 700MR and VTL 700ML machines are equipped with hardened and ground square guides in X and Z axes. They are designed to offer high rigidity, absorption of vibrations and high load capacity. They are designed to withstand high machining efforts and enable feed rates up to 20 m/min (787 in/min).

## ROMI VTL 700R, VTL 700L, VTL 700MR and VTL 700ML "X" and "Z" carriages.



#### 4 Servomotors

Directly coupled to high precision ball screws providing excellent performance in speed and accelerations of axes.

#### 5 Ball screws

They are very precise, hardened and ground, with preloaded nuts and offer high rigidity for carriages motion. Together with the servomotors they offer fast and accurate displacements, high speed and accelerations.

#### 6 Linear scale (optional)

ROMI VTL machines can be equipped with linear scale (optional) in X and Z axes granting high precision and repeatability of axes positioning. It provides a direct reading of the position where the axis is and send relative signals to the CNC. The reading is real and direct so there is no interference of any possible ball screw error caused by heating or expansion.



## **HEADSTOCK**

#### Headstock

It consists of a robust spindle cartridge supported on high precision ball bearings of high load capacity.

It enables high rotations ensuring excellent performance even under severe machining conditions.

It provides a system of bearing sealing, between the chuck and spindle, to prevent cartridge contamination with coolant and particles from machining process.

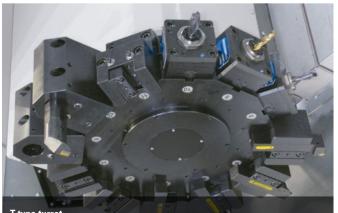




## TURRET



**T type turret** Servodriven with hydraulic locking system and ROMI disc for 12 fixed tools (ROMI VTL 500R / VTL 500L / VTL 700R / VTL 700L).



T type turret Servodriven with hydraulic locking system and ROMI disc for 12 fixed tools (ROMI VTL 500R / VTL 500L / VTL 700R / VTL 700L).



#### Technology, performance and reliability

#### **CNC Siemens Sinumerik 828D**

15" touch screen LCD color monitor with softkeys for functions selection and activation, communication interfaces: USB port and Compact Flash card and Ethernet interface (optional), providing the user the flexibility for loading programs and parameters.

It offers excellent resources for creating and editing machining, programs, such as canned cycles for turning and drilling, linear and circular interpolation functions, thread opening functions, coordinate

systems, 512 pairs of tool wear offsets, tool de life cycle manager, 5 Mbytes of memory, background editing and excellent resources for simulation of 2D machining. Besides, the conversation system ProgramGUIDE is also available which that allows creation of machining programs in an easy and quick manner, through graphical resources, without the need of ISO codes.

ClearchMax. damater allowedmm (m)640 (a)Mol2) (a)700 (a)Max. during dignedmm (m)500 (a)500 (a)700 (a)Max. turing digneter (commend)mm (m)680 (a)600 (a)700 (a)Max. turing digneter (commend)mm (m)680 (a)600 (a)620 (a)620 (a)Max. turing digneter (commend)mm (m)680 (a)600 (a)620 (a)620 (a)Max. turing digneter (commend)mm (m)680 (a)620 (a)620 (a)630 (a)Max. turing digneter (commend)mm (m)620 (a)620 (a)620 (a)630 (a)Max. turing digneter (commend)mm (m)700 (a)700 (a)700 (a)700 (a)Max. turing digneter (commend)m	Technical specifications		ROMI VTL 500R / ROMI VTL 500L	ROMI VTL 500MR / ROMI VTL 500ML	ROMI VTL 700R / ROMI VTL 700L	ROMI VTL 700MR / ROMI VTL 700ML	
Max. duor opening flood / unload)mm (m)640 (25) (A)640 (25) (A)790 (3)790 (3)Max. turning dunneter (nacommended)mm (m)390 (15.4)500 (20)700 (28)700 (28)Max. turning dunneter (nacommended)mm (m)390 (15.4)620 (24)627 (25)635 (25)Max. turning dunneter (nacommended)mm (m)668 (26)620 (24)627 (25)635 (25)Max. height allowedmm (m)205 (12.8)326 (12.8)385 (14.4)386 (14.4)Tavel (Zaxis)mm (m)325 (12.8)326 (12.8)326 (12.8)326 (12.8)Rapid traverse (Zaxis)m/m (in/min)30 (1.81)20 (17.8)20 (787)Bajd traverse (Zaxis)m/m (in/min)30 (1.81)30 (1.81)20 (17.8)20 (17.8)Specif rangesm/m (in/min)30 (1.81)30 (1.81)20 (17.8)20 (17.8)Specif rangesrgm (in/min)20 (1.81)21 (2.20)21 (2.20)21 (2.20)Specif ranges with - 27 reduction geneticrgm (in/min)20 (2.50)21 (2.20)21 (2.20)Specif ranges with - 27 reduction geneticrgm (in/min)25 (2	Capacity						
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Max tuning heightmm (in)668 (26)620 (24)627 (25)635 (25)Max. height allowedmm (in)668 (26)620 (24)627 (25)635 (25)Tavel (Z axis)mm (in)700 (28)700 (28)700 (28)700 (28)Tavel (Z axis)mm (in)mm (in)30 (1,181)20 (727)20 (787)Bapid traverse (Z axis)m/m in/min)30 (1,181)30 (1,181)20 (787)20 (787)Bapid traverse (X axis)m/m in/min)30 (1,181)30 (1,181)20 (787)20 (787)Bapid traverse (X axis)m/m (in/min)30 (1,181)30 (1,181)20 (787)30 or 500 (1)Bapid traverse (X axis)m/m (in/min)30 (1,181)30 (1,181)20 (787)39 or 500 (1)Bapid traverse (X axis)m/m (in)ASAA 2 4"A 2 4"A 2 4"A 2 1"Chuic dametermin (in)(17 4 or 15.4)(15 4 or 15.4)(15 4 or 15.7)(15 4 or 15.4)Speed ranges with - 2F reduction groupfrange I.2 to 2,5002 to 2,500Total controlfrange Ifrange I.2 to 2,500	Max. turning diameter	mm (in)	500 (20)	500 (20)	700 (28)	700 (28)	
Max height allowedmm (in)668 (2i)620 (2i)627 (2i)635 (2i)Tavel (X axis)mm (in)302 (12.0)325 (12.8)365 (14.4)365 (14.4)Tavel (Z axis)mm (in)700 (2i)700 (2i)700 (2i)700 (2i)Feadmm (in/min)301 (181)301 (181)20 (787)20 (787)Bapid traverse (Z axis)m/m (in/min)301 (181)301 (181)20 (787)20 (787)Bapid traverse (X axis)m/m (in/min)31 (57 390 (18))301 (57 390 (150))(15 4 or 187)(15 4 or 187)Chuck diametermm (in)31 (57 390 (18))12 (12 (15 4 or 187))(15 4 or 187)(15 4 or 187)Speed rangesrgm2 to 2 5002 to 2 5002 to 2 5002 to 2 500Age dranges with 2F reduction genatorrgm2 to 2 5002 to 2 5002 to 2 500Age dranges with 2F reduction genator12 (12 (13 (15 (18 (18 (18 (18 (18 (18 (18 (18 (18 (18	Max. turning diameter (recommended)	mm (in)	390 (15.4)	390 (15.4)	470 (18.5)	470 (18.5)	
Tavel K axisjmm (in) $325 [12.8]$ $325 [12.8]$ $396 [14.4]$ $365 [14.4]$ Tavel Z axismm (in)700 (28)700 (28)700 (28)700 (28)FeedsRajd traverse (Z axis)m/min (in/min) $30 (1,181)$ $30 (1,181)$ $20 (787)$ $20 (787)$ Bagid traverse (X axis)m/min (in/min) $30 (1,181)$ $30 (1,181)$ $20 (787)$ $20 (787)$ Bagid traverse (X axis)m/min (in/min) $30 (1,181)$ $30 (1,181)$ $20 (787)$ $20 (787)$ Bagid traverse (X axis)m/min (in/min) $310 (1,181)$ $30 (1,181)$ $30 (1,781)$ $30 (1,781)$ Bagid traverse (X axis)Mm (in) $315 (r 330 (8)$ $330 or 500 (1)$ Bagid traverse (X axis)Trange I $A - A^2$ $A - A^2$ .1" $A - 11^*$ Chuck diametermm (in) $315 (r 330 (8)$ $330 or 500 (1)$ Speed ranges with - Z Froduction geaboxrange I $  6$ to 600 $-$ Agid trave 154 (J (24 or 15.4) $1(124 or 15.4)$ $1(124 cr 15.4)$ $1(124$	Max. turning height	mm (in)	668 (26)	620 (24)	627 (25)	635 (25)	
Tavel (Z axis)mm (in)700 (28)700 (28)700 (28)FocosBajdi traverse (X axis)m/min (in/min)00 (1,181)00 (1,181)20 (787)20 (787)Bajdi traverse (X axis)m/min (in/min)00 (1,181)00 (1,181)20 (787)20 (787)Bajdi traverse (X axis)m/min (in/min)01 (1,81)00 (1,181)20 (787)20 (787)Bajdi traverse (X axis)m/min (in/min)315 or 330 (8)315 or 330 (8)390 or 500 (C)390 or 500 (C)Briddi diametermm (in)315 or 330 (8)(1,24 or 15,4)390 or 500 (C)(1,54 or 18,7)Speed rangesmm (in)315 or 330 (8)(1,24 or 15,4)390 or 500 (C)(1,54 or 18,7)Speed ranges with -2F reduction gealowfrage II2 to 2,000-range IIii121200 (2,00)-Max weight on chuckkg (lbs)590 (1,300)590 (1,300)1,200 (2,000)1,200 (2,000)1,200 (2,000)Max weight on chuckkg (lbs)590 (1,300)590 (1,300)1,200 (2,000)1,200 (2,000)1,200 (2,000)Tote of tools stationsum (in)22121212121212So add arize reques for diverse of the formgea (2,000)52 (2,000 (2,000)63 (2,000)63 (2,000)63 (2,000)63 (2,000)63 (2,000)63 (2,000)So add arize reques for diverse of the formgea (2,000)gea (2,000)12222222 </td <td>Max. height allowed</td> <td>mm (in)</td> <td>668 (26)</td> <td>620 (24)</td> <td>627 (25)</td> <td>635 (25)</td>	Max. height allowed	mm (in)	668 (26)	620 (24)	627 (25)	635 (25)	
Feeds         Numin (invimi)         30 (1,181)         30 (1,181)         20 (787)         20 (787)           Rapid traverse (X axis)         m/min (invimi)         30 (1,181)         30 (1,181)         20 (787)         20 (787)           Headstok           30 (1,181)         30 (1,181)         20 (787)         20 (787)           Headstok           A2-8"         A2-8"         A2-11"         A2-11"           Spindle         ASA         A2-8"         A2-8"         A2-11"         A2-11"           Chuck diameter         mm (in)         315 or 390 (B)         315 or 390 (B)         390 or 500 (C)         390 or 500 (C)           Speed ranges         rpm         2 to 2,500         2 to 2,000         2 to 2,000         -           Speed ranges with - ZF reduction gearbox         range I         -         2 to 2,000         -         -           Max weight on chuck         kg (lbs)         590 (1,300)         590 (1,300)         1,200 (2,700)         1,200 (2,700)         -           Max weight on chuck         kg (lbs)         590 (1,300)         590 (1,300)         1,200 (2,700)         -         25 x 25 (0,98 x 0,98)         32 x 32 (12 6x 1.28)         25 x 25 (0,98 x 0,98)         -         25 x 25 (0,98 x 0,98)	Travel (X axis)	mm (in)	325 (12.8)	325 (12.8)	365 (14.4)	365 (14.4)	
Repid traverse (Z axis) $n/min (in/min)$ $30 (1,181)$ $30 (1,181)$ $20 (787)$ $20 (787)$ Repid traverse (X axis) $n/min (in/min)$ $30 (1,181)$ $30 (1,181)$ $20 (787)$ $20 (787)$ HeadstockSpindleASAA2-8° $A2-8°$ $A2-11^{\circ}$ $A2-11^{\circ}$ $A2-11^{\circ}$ Chuck diameter $nm (in)$ $315 or 390 (B)$ $(12.4 or 15.4)$ $315 or 390 (B)$ $(12.4 or 15.4)$ $315 or 390 (B)$ $(15.4 or 19.7)$ $390 or 500 (C)$ $(15.4 or 19.7)$ Speed ranges $rpm$ $2 to 2,500$ $2 to 2,000$ $2 to 2,000$ $2 to 2,000$ $Beed ranges with - 2F reduction gearboxrange Irange I\cdot\cdotE to 2,000\cdotMumber of tools / stationsun1212121212Number of tools / stationsun1212121212Tool baction squaremn (in)040 (1.57)040 (1.57)050 (2.0)050 (2.0)Axial driven tool holderDIN 6499 ER-3 (03 - 02 nm) ER-40 (03 - 02 mm)Read frame tool holderDIN 6499 ER-3 (03 - 02 nm) ER-40 (03 - 02 mm)Speed ranges driven toolrgm 4 to 4,000  4 to 4,000Tool section sar diven tool holderph/W28 / 2128 / 2126 / 23 -Roud I driven tool holderph/W28 / 2128 / 2126 / 3446 / 34-$	Travel (Z axis)	mm (in)	700 (28)	700 (28)	700 (28)	700 (28)	
Repid traverse (X axis)         m/min (in/min)         30 (1,181)         30 (1,181)         20 (787)         20 (787)           Headstock         Spindle         ASA         A2-8"         A2-4"         A2-11"         A2-11"           Chuck diameter         mm (in) $315 \text{ or 330 (B)}$ (12.4 or 15.4) $315 \text{ or 330 (B)}$ (12.4 or 15.4) $330 \text{ or 500 (C)}$ (15.4 or 19.7) $1200 \text{ (2.700)}$ $1200  (2.7$	Feeds						
Headstock         AsA         A2-8"         A2-8"         A2-11"         A2-11"           Spindle         ASA         A2-8"         A2-8"         A2-11"         A2-11"           Chuck diameter         mm (in)         315 or 330 (8) (12.4 or 15.4)         315 or 330 (8) (12.4 or 15.4)         330 or 500 (C) (15.4 or 19.7)         380 or 500 (C) (15.0 or 500         380 or 500 (C) (15.0 or 500 <td>Rapid traverse (Z axis)</td> <td>m/min (in/min)</td> <td>30 (1,181)</td> <td>30 (1,181)</td> <td>20 (787)</td> <td>20 (787)</td>	Rapid traverse (Z axis)	m/min (in/min)	30 (1,181)	30 (1,181)	20 (787)	20 (787)	
SpindleASA $A2-8^{\circ}$ $A2.8^{\circ}$ $A2.1^{\circ}$ $A2.1^{\circ}$ Chuck diametermm (in) $315 \circ r 390 (B)$ (12.4 or 15.4) $315 \circ r 390 (B)$ (12.4 or 15.4) $390 \circ r 500 (C)$ (15.4 or 19.7) $390 \circ r 500 (C)$ (15.4 or 19.7)Speed rangesrpm2 to 2,5002 to 2,0002 to 2,0002 to 2,000Speed ranges with - ZF reduction gearboxrange I6 to 600-Max. weight on chuck(B)500 (1,300)500 (1,300)1,200 (2,700)1,200 (2,700)Max. weight on chuck(B)500 (1,300)500 (1,300)1,200 (2,700)1,200 (2,700)TuretU1212121212Tool holder typeROMIBMT 65ROMIBMT 75Tool section squaremm (in)04 0 (1.57)04 0 (1.57)05 0 (2.0)0 50 (2.0)Axial driven tool holderDIN 6499-ER-32 (0 3 · 0 20 mm)-ER-40 (0 3 · 0 26 mm)Speed ranges for driven toolrpm-4 to 4,000-4 to 4,000Driven tool motor (S2 · 30 min. rating)hp/kW28 / 2128 / 2146 / 3446 / 34Druen tool motor (S2 · 30 min. rating)hp/kW28 / 2128 / 2146 / 3446 / 34Druen tool motor (S2 · 30 min. rating)hp/kW28 / 2128 / 2146 / 3446 / 34Druen tool motor (S2 · 30 min. rating)hp/kW28 / 2128 / 2146 / 3446 / 34Druen tool motor (S2 · 30 min. rating)hp/kW <td< td=""><td>Rapid traverse (X axis)</td><td>m/min (in/min)</td><td>30 (1,181)</td><td>30 (1,181)</td><td>20 (787)</td><td>20 (787)</td></td<>	Rapid traverse (X axis)	m/min (in/min)	30 (1,181)	30 (1,181)	20 (787)	20 (787)	
And the set of the se	Headstock						
Chuck diametermm (n)(12.4 or 15.4)(12.4 or 15.4)(15.4 or 19.7)(15.4 or 19.7)Speed rangesrpm2 to 2,5002 to 2,5002 to 2,0002 to 2,000 $\mathcal{P}_{ped}$ range l6 to 600. $\mathcal{P}_{ped}$ range l2 to 2,0001,200 (2,700)Max weight on chuckkg (lbs)590 (1,300)590 (1,300)1,200 (2,700)1,200 (2,700)TuretNumber of tools / stationsun12121212Tool holder typeROMIBMT 65ROMIBMT 75Tool section squaremm (n)04 0(1.57)04 0(1.57)05 0(2.0)05 0(2.0)Axial driven tool holderpm (n)04 0(1.57)04 0(1.57)05 0(2.0)05 0(2.0)Speed ranges for driven tool holderpm (n)04 0(1.57)04 0(1.57)05 0(2.0)05 0(2.0)Speed ranges for driven tool holderpm (n)04 0(1.57)04 0(1.57)05 0(2.0)05 0(2.0)Speed ranges for driven tool holderpm (n)04 0(1.57)04 0(1.57)05 0(2.0)05 0(2.0)Speed ranges for driven tool holderpm (n)04 0(1.57)04 0(1.57)05 0(2.0)05 0(2.0)Speed ranges for driven tool holderpt (s)3.03.000Driven tool motor (Sc -30 min. rating)hp/XW28 / 2128 / 2146 / 3446 / 34Driven tool motor (Sc -30 min. rating)hp/KW28 / 2128 / 2146 / 3446 / 34Driven tool mo	Spindle	ASA	A2-8"	A2-8"	A2-11"	A2-11"	
Paged ranges with $2F$ reduction graderange I range I-6 to 600.Speed ranges with $2F$ reduction gradekg (lis)590 (1300)590 (1300)120 (2,000)1200 (2,000)Max. weight on chockkg (lis)590 (1300)590 (1300)1200 (2,000)1200 (2,000) <b>Turet</b> Taret12121212Cholder typeRDMIBMT 65RDMIBMT 75Cholder typeRDMI25 25 (0.98 x 0.98)25 25 (0.98 x 0.98)25 25 (0.98 x 0.98)25 25 (0.98 x 0.98)Cholsection squaremm (m)040 (1.57)040 (1.57)050 (2.0)050 (2.0)Cholsection briddermm (m)040 (1.57)040 (1.57)050 (2.0)050 (2.0)Adial driven tool holderpm (m)040 (1.57)040 (1.57)050 (2.0)050 (2.0)Speed ranges for driven toolrpm-4 to 4,000-4 to 4,000Chrone tool tool tool tool tool tool tool too	Chuck diameter	mm (in)	( )		1 - 1		
Speed ranges with - 2F reduction gearbox         range II         -         2 to 2,000         -           Max. weight on chuck         kg (lbs)         550 (1,300)         590 (1,300)         1,200 (2,700)         1,200 (2,700) <b>Hurde</b> Mumber of tools / stations         un         12         12         12           Col holder type          ROMI         BMT 65         ROMI         BMT 75           Col section: square         mm (in)         25 x 25 (0.98 x 0.98)         32 x 32 (1.26 x 1.26)         25 x 25 (0.98 x 0.98)           Col section bar: diameter         mm (in)         Ø 40 (1.57)         Ø 40 (1.57)         Ø 50 (2.0)         Ø 50 (2.0)           Axial driven tool holder         DIN 6499          ER-32 (Ø 30 Ø Z mm)          ER-40 (Ø 30 Ø Z mm)           Speed ranges for driven tool         If M          A to 4,000          ER-40 (Ø 30 Ø Z mm)          If A to 4,000           Speed ranges for driven tool         rpm          A to 4,000          If A to 4,000         If A to 4,000           Speed ranges for driven tool         rpm          A to 4,000          If A to 4,000         If A to 4,000         If A to 4,000         If A to 4,000         <	Speed ranges	rpm	2 to 2,500	2 to 2,500	2 to 2,000	2 to 2,000	
Arror of ange II         2 to 2,000           Max. weight on chuck         kg (lbs)         590 (1,300)         500 (1,300)         1,200 (2,700)         1,200 (2,700)           Turret         Number of tools / stations         un         12         12         12         12           Tool holder type         ROMI         BMT 65         ROMI         BMT 75         25 x25 (0.98 x 0.98)         32 x 32 (1.26 x 1.26)         25 x25 (0.98 x 0.98)           Tool section square         mm (in)         Ø 40 (1.57)         Ø 40 (1.57)         Ø 50 (2.0)         Ø 50 (2.0)           Axial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Speed ranges for driven tool         fpm         -         4 to 4,000         -         4 to 4,000           Driven tool motor (S2 - 30 min. rating)         hp/kW         -         9 / 7         -         1 1/8           Main motor (S2 - 30 min. rating)         hp/kW         28 / 21         28 / 21         46 / 34         46 / 34           Total installed power         kVA         30         30         50         50           Drivensona drueight (approx.)(D)         m(in)         1.7 x 2.3 (67 x 91)         1.7 x 2.3 (67 x 91)         2.0 x 2.3 (79 x 91)	Speed ranges with - ZF reduction gearbox	range l	-	-	6 to 600	-	
Turret         Number of tools / stations         un         12         12         12         12           Tool holder type         ROMI         BMT 65         ROMI         BMT 75           Tool section: square         mm (in)         25 x 25 (0.98 x 0.98)         32 x 32 (1.26 x 1.26)         25 x 25 (0.98 x 0.98)           Tool section bar: diameter         mm (in)         Ø 40 (1.57)         Ø 40 (1.57)         Ø 50 (2.0)         Ø 50 (2.0)           Axial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Radial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Speed ranges for driven tool         rpm         -         4 to 4,000         -         4 to 4,000           Driven tool motor         hp/kW         -         9 / 7         -         11/8           Power         -         -         4 to 4,000         -         -           Main motor (S2 - 30 min. rating)         hp/kW         28 / 21         28 / 21         46 / 34         46 / 34           Total installed power         kVA         30         30         50         50           Dimensions and weight (approx.) (Di		range II	-	-	2 to 2,000	-	
Number of tools / stations         un         12         12         12           Tool holder type         ROMI         BMT 65         ROMI         BMT 75           Tool section: square         mm (in)         25 x 25 (0.98 x 0.98)         32 x 32 (1.26 x 1.26)         25 x 25 (0.98 x 0.98)           Tool section bar: diameter         mm (in)         Ø 40 (1.57)         Ø 40 (1.57)         Ø 50 (2.0)         Ø 50 (2.0)           Axial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Radial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Speed ranges for driven tool         rpm         -         4 to 4,000         -         4 to 4,000           Driven tool motor S2 - 30 min. rating)         hp/kW         -         -         9 / 7         -         11 / 8           Power         -         -         4 to 4,000         -         -         4 to 4,000         -         -           Main motor (S2 - 30 min. rating)         hp/kW         28 / 21         28 / 21         46 / 34         46 / 34           Total installed power         kVA         30         30         50         50	Max. weight on chuck	kg (lbs)	590 (1,300)	590 (1,300)	1,200 (2,700)	1,200 (2,700)	
Tool holder type         ROMI         BMT 65         ROMI         BMT 75           Tool section: square         mm (in)         25 x 25 (0.98 x 0.98)         32 x 32 (1.26 x 1.26)         25 x 25 (0.98 x 0.98)           Tool section bar: diameter         mm (in)         Ø 40 (1.57)         Ø 40 (1.57)         Ø 50 (2.0)         Ø 50 (2.0)           Axial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Radial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Speed ranges for driven tool         DIN 6499         -         4 to 4,000         -         4 to 4,000         -         4 to 4,000         -         4 to 4,000         -         1 / 8 do         - <td>Turret</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Turret						
Tool section: square         mm (in)         25 x 25 (0.98 x 0.98)         25 x 25 (0.98 x 0.98)         32 x 32 (1.26 x 1.26)         25 x 25 (0.98 x 0.98)           Tool section bar: diameter         mm (in)         Ø 40 (1.57)         Ø 40 (1.57)         Ø 50 (2.0)         Ø 50 (2.0)           Axial driven tool holder         DIN 6499         -         ER-32 (Ø 3 · Ø 20 mm)         -         ER-40 (Ø 3 · Ø 26 mm)           Radial driven tool holder         DIN 6499         -         ER-32 (Ø 3 · Ø 20 mm)         -         ER-40 (Ø 3 · Ø 26 mm)           Speed ranges for driven tool         rpm         -         4 to 4,000         -         4 to 4,000           Driven tool motor (S2 · 30 min. rating)         hp/kW         -         9 / 7         -         11/8           Power          -         -         28 / 21         28 / 21         46 / 34         46 / 34           Total installed power         kVA         30         30         50         50           Dimensions and weight (approx.) (D)         m (in)         1.7 x 2.3 (67 x 91)         1.7 x 2.3 (67 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)           Floor space required (front x side)         m (in)         1.7 x 2.3 (67 x 91)         5.000 (11.000)         7.000 (15.500)         7.000 (15.500) <td>Number of tools / stations</td> <td>un</td> <td>12</td> <td>12</td> <td>12</td> <td>12</td>	Number of tools / stations	un	12	12	12	12	
Tool section bar: diametermm (in)Ø 40 (1.57)Ø 40 (1.57)Ø 50 (2.0)Ø 50 (2.0)Axial driven tool holderDIN 6499-ER-32 (Ø 3 - Ø 20 mm)-ER-40 (Ø 3 - Ø 26 mm)Radial driven tool holderDIN 6499-ER-32 (Ø 3 - Ø 20 mm)-ER-40 (Ø 3 - Ø 26 mm)Speed ranges for driven toolrpm-4 to 4,000-4 to 4,000Driven tool motor (S2 - 30 min. rating)hp/kW-9 / 7-11 / 8PowerMain motor (S2 - 30 min. rating)hp/kW28 / 2128 / 2146 / 3446 / 34Tota installed powerkVA30305050Dimensions and weight (approx.) (D)Floor space required (front x side)m (in) $1.7 \times 2.3 (67 \times 91)$ $2.0 \times 2.3 (79 \times 91)$ $2.0 \times 2.3 (79 \times 91)$ Net weightkg (bs)5.000 (11,000)5.000 (11,000)7,000 (15.500)7,000 (15.500)	Tool holder type		ROMI	BMT 65	ROMI	BMT 75	
Axial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Radial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Speed ranges for driven tool         rpm         -         4 to 4,000         -         4 to 4,000           Driven tool motor (S2 - 30 min. rating)         hp/kW         -         9 / 7         -         11 / 8           Power         -         -         28 / 21         28 / 21         46 / 34         46 / 34           Total installed power         kVA         30         30         50         50           Floor space required (front x side)         m (in)         1.7 x 2.3 (67 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)           Net weight         kg (lbs)         5.000 (11.000)         5.000 (11.000)         7.000 (15.500)         7.000 (15.500)	Tool section: square	mm (in)	25 x 25 (0.98 x 0.98)	25 x 25 (0.98 x 0.98)	32 x 32 (1.26 x 1.26)	25 x 25 (0.98 x 0.98)	
Radial driven tool holder         DIN 6499         -         ER-32 (Ø 3 - Ø 20 mm)         -         ER-40 (Ø 3 - Ø 26 mm)           Speed ranges for driven tool         rpm         -         4 to 4,000         -         4 to 4,000           Driven tool motor (S 2 - 30 min. rating)         hp/kW         -         9 / 7         -         11 / 8           Power         -         -         -         -         4 to 4,000         -         1 / 8           Total installed power         -	Tool section bar: diameter	mm (in)	Ø 40 (1.57)	Ø 40 (1.57)	Ø 50 (2.0)	Ø 50 (2.0)	
Speed ranges for driven tool         rpm         -         4 to 4,000         -         4 to 4,000           Driven tool motor (S2 - 30 min. rating)         hp/kW         -         9 / 7         -         11 / 8           Power         -         4 to 4,000         -         4 to 4,000         -         11 / 8           Main motor (S2 - 30 min. rating)         hp/kW         28 / 21         28 / 21         46 / 34         46 / 34           Total installed power         kVA         30         30         50         50           Dimensions and weight (approx.) (D)         m (in)         1.7 x 2.3 (67 x 91)         1.7 x 2.3 (67 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)           Net weight         kg (lbs)         5,000 (11,000)         5,000 (11,000)         7,000 (15,500)         7,000 (15,500)	Axial driven tool holder	DIN 6499	-	ER-32 (Ø 3 - Ø 20 mm)	-	ER-40 (Ø 3 - Ø 26 mm)	
Driven tool motor (S2 - 30 min. rating)hp/kW-9 / 7-11 / 8PowerMain motor (S2 - 30 min. rating)hp/kW28 / 2128 / 2146 / 3446 / 34Total installed powerkVA30305050Dimensions and weight (approx.) (D)Floor space required (front x side)m (in)1.7 x 2.3 (67 x 91)1.7 x 2.3 (75 x 91)2.0 x 2.3 (79 x 91)Net weightkg (lbs)5.000 (11,000)5.000 (11,000)7.000 (15,500)7.000 (15,500)	Radial driven tool holder	DIN 6499	-	ER-32 (Ø 3 - Ø 20 mm)	-	ER-40 (Ø 3 - Ø 26 mm)	
NP/KW         -         9/7         -         11/8           Power         -         9/7         -         11/8           Main motor (S2 - 30 min. rating)         Np/KW         28/21         28/21         46/34         46/34           Total installed power         kVA         30         30         50         50           Dimensions and weight (approx.) (D)         -         1.7 x 2.3 (67 x 91)         1.7 x 2.3 (67 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)           Floor space required (front x side)         m (in)         1.7 x 2.3 (67 x 91)         5.000 (11,000)         7.000 (15,500)         7.000 (15,500)	Speed ranges for driven tool	rpm	-	4 to 4,000	-	4 to 4,000	
Main motor (S2 - 30 min. rating)         hp/kW         28 / 21         28 / 21         46 / 34         46 / 34           Total installed power         kVA         30         30         50         50           Dimensions and weight (approx.) (D)         r <td></td> <td>hp/kW</td> <td>-</td> <td>9 / 7</td> <td>-</td> <td>11 / 8</td>		hp/kW	-	9 / 7	-	11 / 8	
Total installed power         kVA         30         30         50         50           Dimensions and weight (approx.) (D)                 50          50          50          50          50            50          50          50          50          50          50          50          50          50          50         1.7 x 2.3 (67 x 91)         1.7 x 2.3 (67 x 91)         1.7 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)         500 (11,000)         5,000 (11,000)         7,000 (15,500)	Power						
Dimensions and weight (approx.) (D)           Floor space required (front x side)         m (in)         1.7 x 2.3 (67 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)           Net weight         kg (lbs)         5,000 (11,000)         5,000 (11,000)         7,000 (15,500)         7,000 (15,500)	Main motor (S2 - 30 min. rating)	hp/kW	28 / 21	28 / 21	46 / 34	46 / 34	
Floor space required (front x side)         m (in)         1.7 x 2.3 (67 x 91)         1.7 x 2.3 (67 x 91)         2.0 x 2.3 (79 x 91)         2.0 x 2.3 (79 x 91)           Net weight         kg (lbs)         5,000 (11,000)         5,000 (11,000)         7,000 (15,500)         7,000 (15,500)	Total installed power	kVA	30	30	50	50	
Net weight         kg (lbs)         5,000 (11,000)         5,000 (11,000)         7,000 (15,500)         7,000 (15,500)	Dimensions and weight (approx.) (D)						
· ·	Floor space required (front x side)	m (in)	1.7 x 2.3 (67 x 91)	1.7 x 2.3 (67 x 91)	2.0 x 2.3 (79 x 91)	2.0 x 2.3 (79 x 91)	
Max. machine height         m (in)         3.4 (134)         3.4 (134)         3.5 (138)         3.5 (138)	Net weight	kg (lbs)	5,000 (11,000)	5,000 (11,000)	7,000 (15,500)	7,000 (15,500)	
	Max. machine height	m (in)	3.4 (134)	3.4 (134)	3.5 (138)	3.5 (138)	

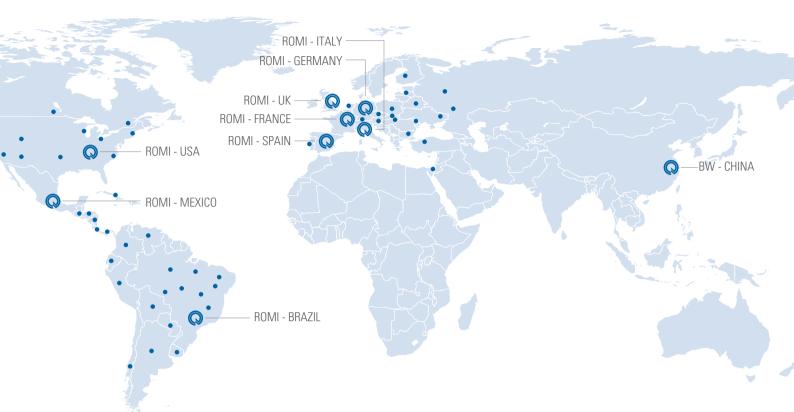
(A) If piece diameter is equal or bigger than maximum door opening it may occur some difficulty for parts load / unload.(B) Speed range up to 2,400 rpm for Ø 390 mm (15.4") chuck

(C) Speed range up to 1,500 rpm for Ø 500 mm (20") chuck. (D) Without chip conveyor.

Chip conveyors (optionals)									
Types of chips		~_/_/	Material						
Model	Curled or long chips	Short thin chips	Steel	Aluminum	Non-ferrous metals (bronze and brass)	Cast iron			
TCE (Longitudinal Hinged belt chip conveyor)	0	Х	0	Х	Х	Х			
TCA (Longitudinal Drag belt chip conveyor)	Х	0	0	0	0	0			
Fully indicated O Partly indicated					Not indicated				

TCA: chips smaller than 0.5 mm may contaminate the coolant tank and require frequent cleaning / chip clusters or chips larger than 50 mm may lock the conveyor

TCE: short chips smaller than 5 mm may contaminate the coolant tank and require frequent cleaning



















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ISO 9001:2015 Certificate No. 31120



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CE safety regulation compliance available only for the European Community or under request. Check availability and technical characteristics of the products to your country.