

Product Overview

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PUMA ST20GS / 26GS

The PUMA ST20GS / 26GS provide stable, continuous cutting accuracy due to minimized thermal error design.



Major specifications

| Description | Unit | PUMA ST20GS | PUMA ST26GS |
|----------------------------------|-----------|---|---|
| Controll axes | - | 7 (X1,Z1,C1,Y,X2,Z2,C2) | |
| Max. machining length | mm (inch) | 200 (7.9) | |
| Max. spindle power (30min/cont.) | kW (Hp) | Main : 3.7/2.2 (5.0/3.0) Sub : 3.7/2.2 (5.0/3.0) | Main : 5.5/2.2 (7.4/3.0) Sub : 3.7/2.2 (5.0/3.0) |
| Machine dimensions (LxWxH) | mm (inch) | 2320 x 1245 x 1735 (91.3 x 49.0 x 68.3) | |
| Display unit | inch | 10.4 | |
| CNC | | DOOSAN FANUC i | |

PUMA ST20GS

Max. Machining Diameter

ø20mm
(ø0.8 inch)

Max. spindle speed

Main Spindle: **10000 r/min**
Sub-Spindle: **8000 r/min**

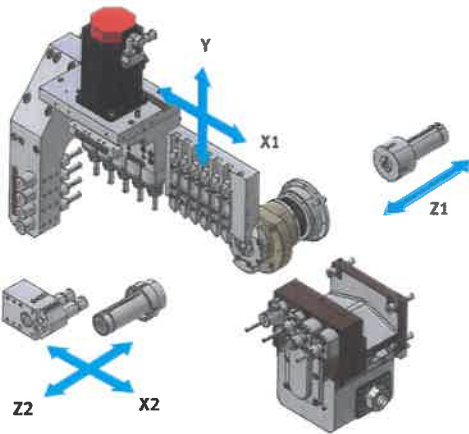
PUMA ST26GS

Max. Machining Diameter

ø26mm
(ø1.0 inch)

Max. spindle speed

Main Spindle: **8000 r/min**
Sub-Spindle: **8000 r/min**



Travel

| Description | Unit | Z1 | X1 | Y | Z2 | X2 |
|-------------------------------|-------------|-------------|----------|------------|-----------|------------|
| Travel distance (PUMA ST20GS) | mm (inch) | 200 (7.9) | 90 (3.5) | 350 (13.8) | 190 (7.5) | 345 (13.6) |
| Travel distance (PUMA ST26GS) | mm (inch) | 200 (7.9) | 90 (3.5) | 386 (15.2) | 186 (7.3) | 345 (13.6) |
| Rapid traverse rate | m/min (ipm) | 32 (1259.8) | | | | |

Tool

| Description | Unit | PUMA ST20GS | PUMA ST26GS |
|---------------------------|----------------------------|-------------------------|------------------------|
| No. Mountable tools (Max) | ea | 25 (30) | 22 (27) |
| Front machining | Turning tool | 6 (12 x 12 x 120) | 5 (16 x 16 x 120) |
| | Sleeve holder | 4 (ER16M) (+4,bifacial) | 4 (ER16) (+4,bifacial) |
| | Cross tool | 5 (ER16) | |
| Back machining | Number of mountable tool | fixed 2+rotation 2 | |
| | Additional fixed type tool | 2 | |
| Deep hole | Number of mountable tool | 2 | X |

PUMA ST GS series Features Highlight



* Except for PUMA ST10GS

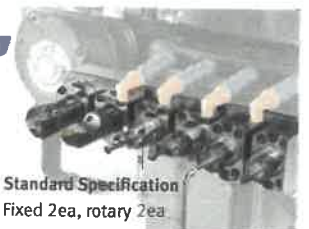
Built-in Sub Spindle

The PUMA ST GS series models provide a built-in sub spindle as an option. The main and sub spindles can be controlled by fast and precise synchronization, improving machining accuracy and allows easy maintenance without affecting belt life and accuracy.

Back Tool Post for 6 Tools option

The Back tool post can hold up to 6 tools to improve efficiency and productivity.

* Except for PUMA ST10GS



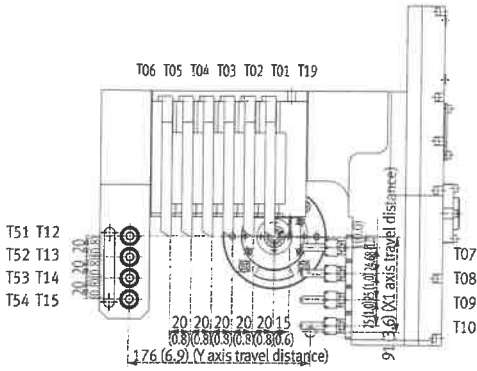
Standard Specification
Fixed 2ea, rotary 2ea

Tooling System

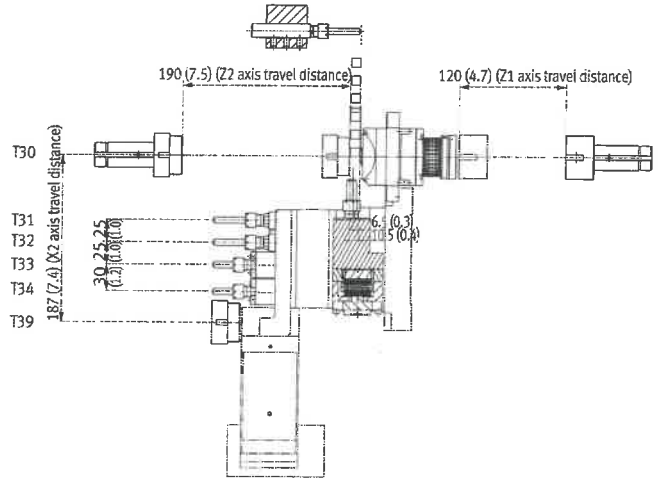
PUMA ST10GS

Unit: mm (inch)

Front Tools



Back Tools

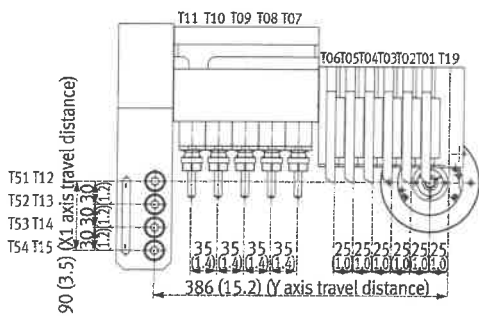


PUMA ST20GS / 26GS

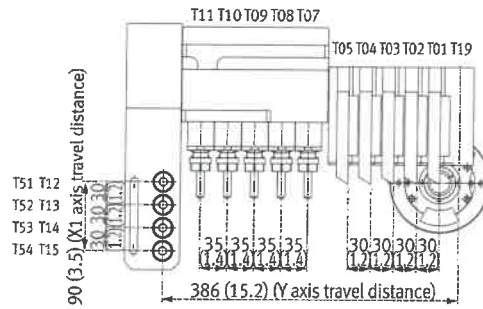
Unit: mm (inch)

Front Tools

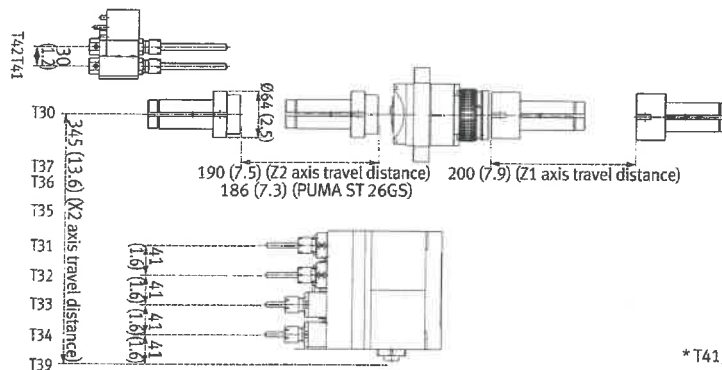
PUMA ST20GS



PUMA ST26GS

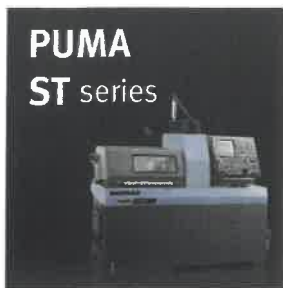


Back Tools



* T41, T42 Except PUMA ST26GS

Machine Specifications



| Description | | Unit | PUMA ST10GS | PUMA ST20GS | PUMA ST26GS | PUMA ST32GS | PUMA ST35GS | |
|-----------------------------------|-------------------------------|----------------------------------|-----------------------|------------------------|------------------------|-------------------------|-------------------------|--------------------|
| Machining Capacity | Max. machining diameter | mm (inch) | Ø10 (Ø0.4) | Ø20 (Ø0.8) | Ø26 (Ø1.0) | Ø32 (Ø1.3) | Ø35 (Ø38) (Ø1.4 (Ø1.5)) | |
| | Max. machining length | mm (inch) | 120 (4.7) | 200 (7.9) | 200 (7.9) | 300 (11.8) | 300 (11.8) | |
| | Max. front drilling / tap | mm (inch) | Ø7 / M6 (Ø0.3 / 0.2) | Ø10 / M8 (Ø0.4 / M0.3) | Ø10 / M8 (Ø0.4 / M0.3) | Ø13 / M12 (Ø0.5 / M0.5) | Ø13 / M12 (Ø0.5 / M0.5) | |
| | Max. cross drill / tap | mm (inch) | Ø5 / M4 (Ø0.2 / M0.2) | Ø8 / M6 (Ø0.3 / M0.2) | Ø8 / M6 (Ø0.3 / M0.2) | Ø8 / M6 (Ø0.3 / M0.2) | Ø8 / M6 (Ø0.3 / M0.2) | |
| Tool post | No. Mountable tools (Max) | ea | 22 | 25 (30) | 22 (27) | 24 (29) | 21 (26) | |
| Front machining | Turning tool | ea | 6 (10x10 x110) | 6 (12x12 x120) | 5 (16x16 x120) | 6 (16x16 x120) | 5 (16x16 x120) | |
| | Sleeve holder | ea | 4(ERM11) | 4 (ER16M) | 4 (ER16) | 4 (ER20M) | 4 (ER20M) | |
| | Cross tool | ea | 4 | 5 (ER16) | 5 (ER16) | 4 (ER16) | 4 (ER16) | |
| | Max. rotary tool speed | r/min | 8000 | 8000 | 8000 | 8000 | 8000 | |
| Back machining | Number of mountable tool | ea | fixed 2 + rotation 2 | | | | | |
| | Additional fixed type tool | ea | - | 2 | 2 | 2 | 2 | |
| | Max. rotary tool speed | r/min | 8000 | 6000 | 6000 | 8000 | 8000 | |
| Spindle | Main spindle | Max. spindle speed | r/min | 12000 | 10000 | 8000 | 8000 | 8000 |
| | | Max. spindle power (30min/cont.) | kW (Hp) | 3.7/2.2 (5.0/3.0) | 3.7/2.2 (5.0/3.0) | 5.5/2.2 (7.4/3.0) | 7.5/5.5 (10.1/7.4) | 7.5/5.5 (10.1/7.4) |
| | Sub spindle | Max. spindle speed | r/min | 10000 | 8000 | 8000 | 8000 | 8000 |
| | | Max. spindle power (30min/cont.) | kW (Hp) | 1.1/0.55 (1.5/0.7) | 3.7/2.2 (5.0/3.0) | 3.7/2.2 (5.0/3.0) | 3.7/2.2 (5.0/3.0) | 3.7/2.2 (5.0/3.0) |
| C-axis minimum indexing increment | | | | | 0.001 | | | |
| Travel | Rapid traverse rate | m/min (ipm) | 35 (1378.0) | 32 (1259.8) | 32 (1259.8) | 32 (1259.8) | 32 (1259.8) | |
| | X1, X2, Z1, Z2, Y motor power | kW (Hp) | 0.75 (1.0) | 0.5 (0.7) | 0.75 (1.0) | 1.0 (1.3) | 1.0 (1.3) | |
| Chuck / Guide bush | Main/sub spindle | | TF15 | TF25 | TF32 | TF37 | TF40 | |
| | Guide bush | | TD10 | TD25NS | CD25 | TD32S | TD35 | |
| Power source | Power consumption | Kva | 11 | 12 | 22 | 22 | 22 | |
| Control | CNC system | DOOSAN FANUC i | | | | | | |

Product Overview

Machine Dimensions

Basic Information

PUMA ST series

Basic Structure
Machining

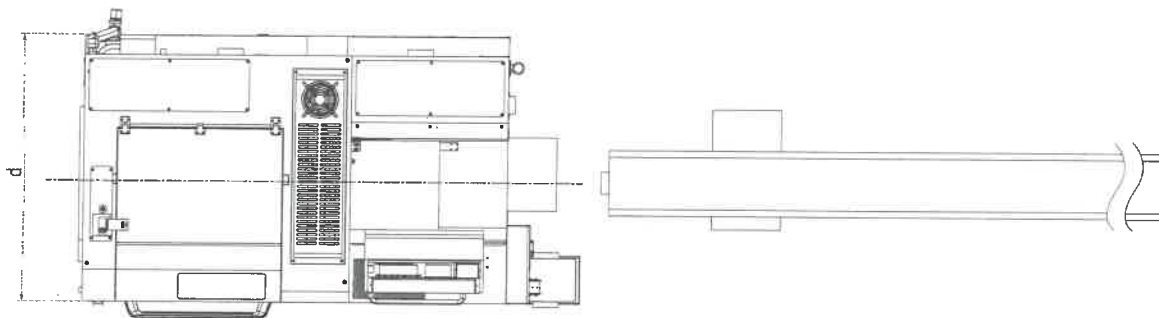
Unit: mm (inch)

Detailed Information

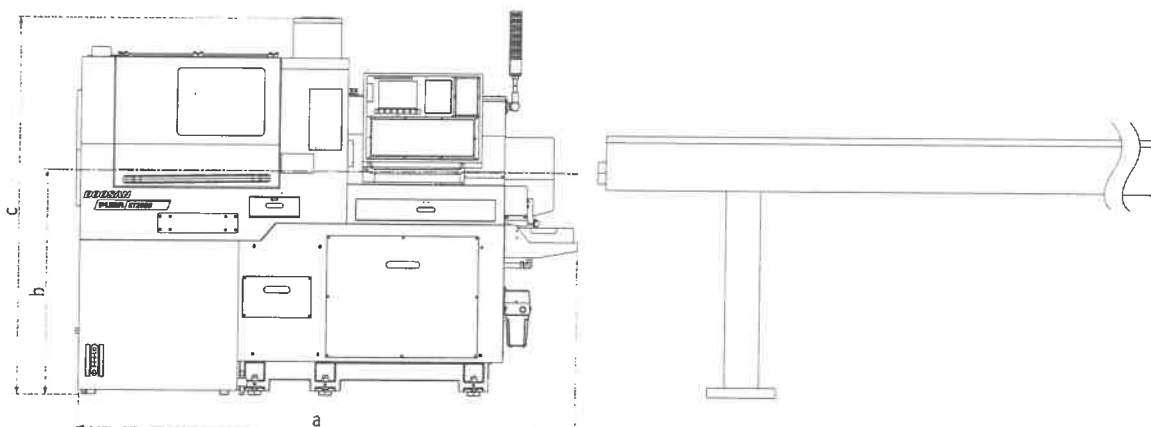
Options
Applications
Capacity Diagram
Specifications

Customer Support Service

Top View



Front View



| Division | Unit | PUMA ST10GS | PUMA ST20GS | PUMA ST26GS | PUMA ST32GS | PUMA ST35GS |
|-------------------|-----------|-------------|-------------|-------------|--------------|--------------|
| Length (a) | mm (inch) | 1929 (75.9) | 2320 (91.3) | 2320 (91.3) | 2835 (111.6) | 2835 (111.6) |
| Center height (b) | mm (inch) | 1050 (41.3) | 1050 (41.3) | 1050 (41.3) | 1060 (41.7) | 1060 (41.7) |
| Height (c) | mm (inch) | 1710 (67.3) | 1735 (68.3) | 1735 (68.3) | 1850 (72.8) | 1850 (72.8) |
| Width (d) | mm (inch) | 910 (35.8) | 1245 (49.0) | 1245 (49.0) | 1470 (57.9) | 1470 (57.9) |