



TRF

HIGH CAPACITY MILLING SYSTEM FOR WELDING



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TECOI
Technology for large installations



The most appropriate sectors for the TRF are: wind tower manufacturing industry, shipbuilding, civil construction, large steel structures, petrochemical and large metallic pressure vessels.

CUSTOMER

The TRF system manufactured by Tecoi is specially designed for plate edge preparation jobs for welding and drilling application where high machining capacity is need for plate fabrication.

The main advantages of Tecoi's TRF system are:

- High beveling speeds, superior to conventional systems.
- High precision in the geometry of the bevels.
- Nearly non-existent heat input.
- Complete cleanness of the beveled zones.
- High performance tools utilization.



Shipbuilding Industry



The TRF machine is the solution for the most demanding requirements in the welding edge preparation standards.



MACHINE

Head and motor



- Up to 90 Kw power heads
- Constant torque
- Height control integrated within head



Head



- Possibility to equip up to 2 heads
- Double channel system to describe different trajectories with each head



Tool

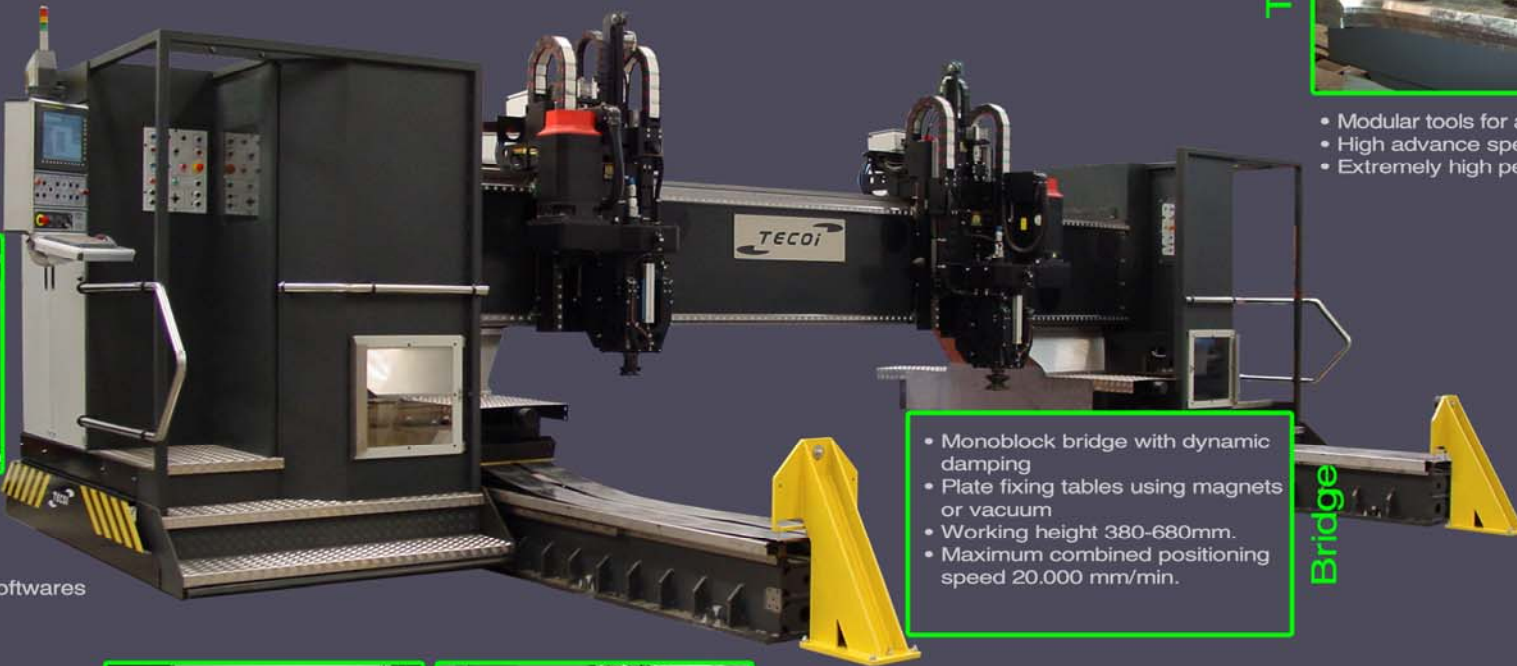


- Modular tools for an easy combination of bevels
- High advance speeds of up to 1.000 mm/min.
- Extremely high performance of carbide inserts

Control



- Fanuc series 30 control
- Integrated control desk
- Double control panel
- Intuitive functioning
- Full compatibility with most softwares



Bridge

- Monoblock bridge with dynamic damping
- Plate fixing tables using magnets or vacuum
- Working height 380-680mm.
- Maximum combined positioning speed 20.000 mm/min.

Storage



- Optional up to five positions per head toll storage system.
- Easy storage configuration

TRF 5000

Useful machining zone	From 16.500 x 3.200 to 40.000 x 4.200
Head's vertical displacement	700 mm
Maximum number of heads	2 for parallel milling with double independent channels
Machining functions	Milling, drilling, tapping and countersinking
X-axis	<ul style="list-style-type: none"> • 2 Fanuc servo motors (tandem system option) • High capacity precision reduction gearboxes
Y-axis	Fanuc servo motor (tandem system option)
Head	30-60-90 Kw Fanuc servo motor
Maximum speed	2.000 - 4.000 - 6.000 rpm
Numeric control	Fanuc series 31i A5
Tool support	HSK 100-125A (big plus optional)
Maximum tool diameter	360 mm
Automatic tool changing system	Yes, 5 positions per head
Maximum single pass milling thickness (355NL)	140 mm
Gantry vibration damping system	CNC autoadjustable double internal system
Combined positioning speed	20m/min.
Acceleration	1.000mm/sec.2
Forces	<ul style="list-style-type: none"> • "X" -axis: maximum 42.000N • "Y" -axis: maximum 22.000N • "Z" -axis : maximum 10.000N
Maximum torque on tools	1.850 N/m
Surface following system	Full position control
Positioning precision	+/-0.1mm
Gantry and 28 meter long guidance system weight	68 Tons
Plate clamping system and interior bed weight	56 Tons

TRF 4000

Useful machining zone	From 6.500 x 3.200 to 28.000 x 3.200
Head's vertical displacement	350 mm
Maximum number of heads	2 for parallel milling
Machining functions	Milling, drilling, tapping and countersinking
X-axis	<ul style="list-style-type: none"> • 2 Fanuc servo motors • High capacity precision reduction gearboxes
Y-axis	Fanuc servo motor
Head	30 Kw Fanuc servo motor
Numeric control	Fanuc series 0i
Tool support	HSK 100
Maximum tool diameter	220 mm
Maximum speed	Maximum speed 2.000 - 4.000 - 6.000 rpm
Maximum single pass milling thickness (355NL)	65 mm
Combined positioning speed	20m/min.
Acceleration	1.000mm/sec.2
Forces	<ul style="list-style-type: none"> • "X" -axis: maximum 22.000N • "Y" -axis: maximum 12.000N • "Z" -axis : maximum 8.000N
Maximum torque on tools	1.150 N/m
Surface following system	Full position control
Positioning precision	+/-0.2mm
Gantry and 28 meter long guidance system weight	42 Tons
Plate clamping system and interior bed weight	41 Tons

CHARACTERISTICS



certificates by

*Present in five continents through a highly qualified and extensive technical and commercial network at your availability.

*Fast and experienced aftersales service.

*Optimum maintenance and correct functioning of the machines guaranteed by the T.A.S.

*Permanent attention and pre-established online assistance.

*Personalized and customer need adapted training programs.

