



Pfiffner Production Transfer
PT 52-12 CNC and PT 45-16 CNC

The Pfiffner PT-Rotary Transfer Machines

Precise | Productive | Reliable

Model brochure



The evolution of our Transfer Machine: The new PT-Machine series

Pfiffner is the world's leading manufacturer of rotary transfer machines and offers the best solutions for work pieces at required in high volume.

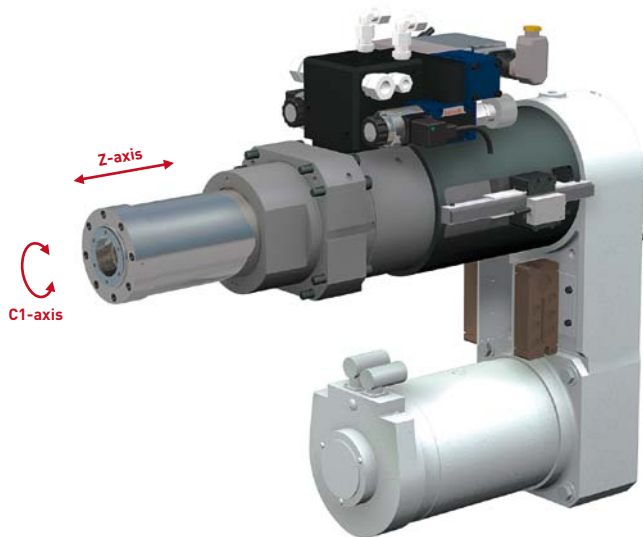
These electro-hydraulic rotary transfer machines can work from bar, coil or with the automatic feeding of blanks. An intelligent modular system offers maximum flexibility. The Pfiffner machine specification is essentially determined by the work piece to be machined.

Worldwide more than 2'400 Pfiffner Rotary Transfer Machines are installed.

Precision and productivity are the essential features of the rotary transfer technology. Pfiffner now sets new standards with the PT-series: more flexibility with increased functionality at lower costs.

One base module with a universal interface for the 12 or 16-station rotary transfer machine, with fully CNC-controlled machining processes. Quality and process reliability are at the highest level.

For bars up to \varnothing 52 mm or with automatic work piece feeding: wherever demanding parts are manufactured with high precision, in large quantities and at high speed, the PT-Machine series from Pfiffner offers the best solution.



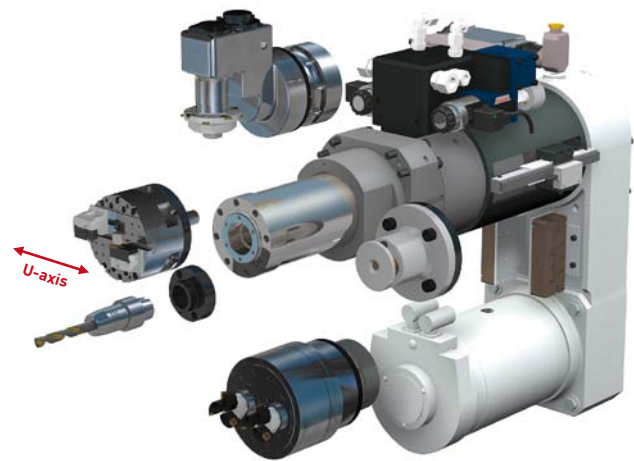
Basic module GM 50/150

Basic module GM 50/150

Quick set up – short changeover – the highest manufacturing precision.

The basic module of the latest generation combines proven mechanics with the latest CNC technology. Equipped with C1- and Z-axis as standard, each unit can be individually extended up to 5 axes.

Electric drives with hydraulic and mechanical elements ensure maximum compliance and reduced energy consumption – the new eco-standard in rotary Indexing technology.



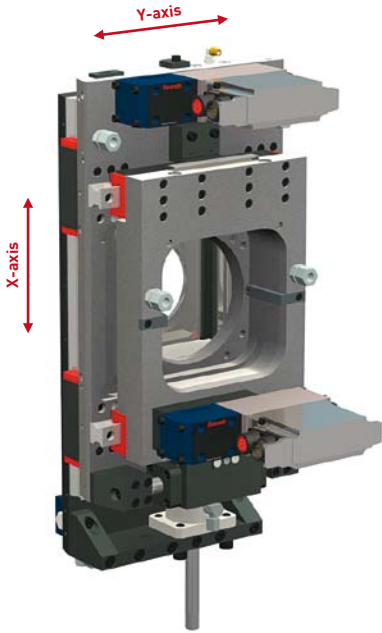
Modular and universal interface

Universal interface X/Y-flange

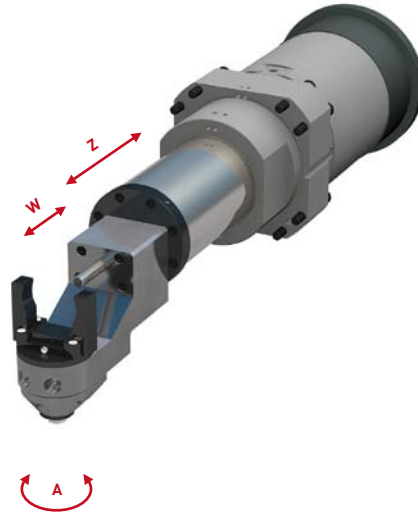
With the new universal interface all machining heads – cross slide heads – are simple to adapt. A cost-efficient adjustment is possible at any time – investing in the future!

The following configurations are modular and can be used:

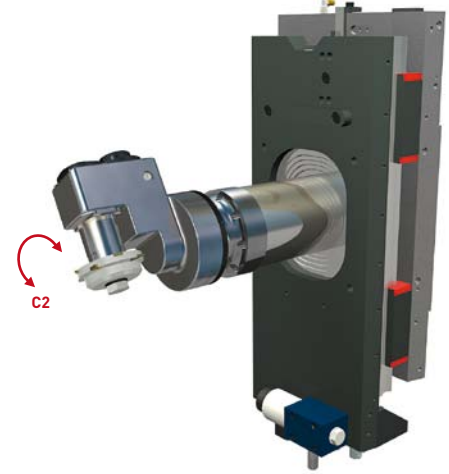
- Basic module + cross slide head (3 axes)
- Basic module + X/Y-flange (4 axes)
- Basic module + X/Y-flange + cross slide head (5 axes)
- Basic module + X/Y-flange + swivel quill (5 axes)



X/Y-flange



Inverting unit



Basic module with swivel quill

Inverting unit

The newly developed 3-axes CNC inverting module ensures a reliable inversion – machining reverse side. The first step of the inverting process detects the position of the work piece.

Then the gripper system will open, clamp over the work piece and rotate 180 degrees. The component is reinserted back into the collet and the insertion rod makes a positional comparison with the measurement taken at the start of the sequence.

The detection of the work piece position and the positive gripper system guarantee a correct position, damage-free and accurate turning position.

Machine control

The modern digital machine control SINUMERIK 840 D sl, together with the new interface, reflects the consistent design to provide a modular and flexible mechanism within the electrical control and operating concept of the machine. Via powerful bus systems, the individual axes can be freely configured with one another and interpolate. This highly flexible system forms the basis and guarantee for efficient setting of the machine when changing products. In conjunction with the new machine kinematics, the precision on the work piece can be increased significantly. Mechanically related manufacturing tolerances of the basic machine and other components such as collets can be stored and automatically compensated by the controller.



		PT 52-12 CNC	PT 45-16 CNC
Rotary indexing table	number of stations	12	16
	clamping element	collet	collet
	indexing time	0,8 second	0,8 second
Work piece dimensions (max.)	bar material Ø	52 mm	45 mm
	cubic capacity	50 x 60 x 60 mm	50 x 60 x 60 mm
	length capacity	150 mm	150 mm
Number of machining units	horizontal	12	16
	vertical	6	8
	total no. of units	18	24
Basic module GM 50/150	Z-axis	150 mm	150 mm
	driving power C1-axis	5 kW	5 kW
	speed	0 – 9'000 rpm	0 – 9'000 rpm
X/Y-flange	universal interface	max. HSK-63	max. HSK-63
	X-axis	80 mm	80 mm
	Y-axis	40 mm	40 mm
Machine size and weight	l x w x h	11,0 x 4,5 x 2,6 m *	11,0 x 4,5 x 2,6 m *
	approximate weight	9 tons	10 tons

* with bar feeder 4m

Head office:

K.R. Pfiffner AG

Gewerbestrasse 14
Postfach 229
CH-8800 Thalwil
Switzerland
phone +41 (0)44 722 66 66
fax +41 (0)44 722 67 17
info@pfiffner.com
www.pfiffner.com

K.R. Pfiffner AG, Utzenstorf

Sonnmattstrasse 28
CH-3427 Utzenstorf
Switzerland
phone +41 (0)32 666 35 35
fax +41 (0)32 666 35 55
utzenstorf@pfiffner.com
www.pfiffner.com

K.R. Pfiffner GmbH

Axtbühl 2
DE-78658 Zimmern o.R.
Germany
phone +49 (0)741 92 88 0
fax +49 (0)741 92 88 155
info@pfiffner.de
www.pfiffner.com

K.R. Pfiffner AG, Branche Office

Business-Centre Citydel
Regus 4th Floor
Zemlyanoy Val 9
RU-105064 Moskau
Russia
phone +7 (495)287 13 94
fax +7 (495)967 97 67
info@pfiffner.com
www.pfiffner.com

Pfiffner Trading Shanghai Co. Ltd.

Room 1606, Building No. 1,
369 Xianxia Road
CN-200336 Shanghai
China
info@pfiffner.com
www.pfiffner.com