

PLX - High Capacity Loader

RX7

To enhance the production capabilities of the RX7 ANCA have released the PLX, a high capacity pallet style loader. The PLX is the perfect addition to the RX7 and completes the package as the optimum small to medium tool production Tool and Cutter Grinder.

The PLX is suitable for loading tools from Ø1mm to Ø26mm and up to 250mm in length. An example of its capacity is, 154 tools for Ø16mm, 1242 tools for a Ø1mm tool.

As the name suggests the PLX uses a pallet to store the tools in the loading cell. Two pallets are required for each tool size, 1 pallet for the tool blanks and another for the finished tool. These pallets are referred to as the pickup and store pallets.

Although the PLX is designed to primarily load round shank tools, an option to load Nikken KM20 collets is available.



The PLX offers the following benefits:

- Extremely high pallet capacity resulting in longer periods of unattended machine operation
- Design and functionality has proven reliability
- Small foot print
- Can load KM20 collets if desired
- Fast changeover between tool types
- Capable of loading a wide variety of tool types
- Large door opening providing good operator access

ANCA[®]
TOTAL PRECISION

Precision
Versatility
Productivity
Confidence

PLX - Compact Loader

How Does it Work?

The Loader uses a combination of servo driven motors and pneumatic devices for its automation. The PLX uses 2 pallets per tool size. The concept of using 2 pallets was done to facilitate very high tool quantities in the pallets.



A basic sequence of operation is a blank tool is picked up from the pallet and passed to a transfer gripper which rotates the tool from a vertical to horizontal. The tool is then loaded into another set of grippers where it waits for the machine to request the next tool to be loaded. When a new blank is required the loading arm slides into the machine area, unloads the finished tool, reloads the new blank and returns to its original position. The finished tool is then passed between the loader grippers in the reverse sequence and placed in the store (finished) pallet.

There are 4 sets of pallet grippers required to cover the tool range from 1mm to 16mm. Change over of Pallet grippers is quick and easy as they are designed with precision datum faces so, re-teaching of the Loader is not necessary. Loadermate software automatically recalculates all new loading positions based on tool diameter. All other grippers used on the loader are capable of spanning the full tool range and therefore are not required to be changed between tool types.



TOTAL PRECISION

www.anca.com

ANCA Inc
ANCA do Brasil
ANCA (UK) Ltd
ANCA GmbH
ANCA Machine Tool (Shanghai) Co. Ltd
ANCA (Thailand) Ltd
ANCA Italia
ANCA Japan

Michigan, USA
Sao Paulo, Brasil
Coventry, UK
Mannheim, Germany
Shanghai, China
Rayong, Thailand
Vicenza, Italy
Nagoya, Japan

Specifications

- Min tool shank \varnothing 1
- Max tool shank \varnothing 26
- Max tool head dia is \varnothing 32mm
- Max tool length is 250mm
- Can also be adapted to load KM 20 Nikken collets.

Pallet Capacity	
Tool Dia	Pallet Capacity
3	840
6	520
8	396
10	323
12	255
16	164



Tel: (+1) 248 926 4466
Tel: 015 3221 5512
Tel: (+44) 02476 44 7000
Tel: (+49) 0621 338 100
Tel: (+86) 21 5868 2940
Tel: (+66) 03895 9252
Tel: (+39) 0444 341 642
Tel: (+81) 561 53 8543

Fax: (+1) 248 926 4475
Fax: 015 3221 5512
Fax: (+44) 02476 44 7333
Fax: (+49) 0621 335 27
Fax: (+86) 21 5868 2921
Fax: (+66) 03895 9251
Fax: (+39) 0444 523 136
Fax: (+81) 561 53 8544