# LIFTRONIC<sup>®</sup> AIR VS. PNEUMATIC MANIPULATOR

### LIFTRONIC<sup>®</sup> AIR

#### Very precise

The INDEVA® doesn't over-travel, nor bounce and doesn't require lots of small corrective movements to reach the required position; the load doesn't suffer any impact when positioned.

LIFTRONIC <sup>®</sup> AIR	PNEUMATIC MANIPULATOR	VERS	ATILITY
SAF	ETY	Simple and quick	
Total	Limited	Modifications to movement parameters are simple and quick via electronic software.	Modifications t and can result
If a load is lost, the controls immediately balance the system so removing the risk of sudden upward movement of the controls and tooling.	Only mechanical or pneumatic devices available. Vertical movement especially is difficult to control.	MAN / MACH	INE INTERFACE
AUTO WEIGHT SENSE		Simple and efficient	
IN REA Standard feature	Not possible in real time	By means of display.	By means of pneu
By means of a load cell and electronic signalling, the INDEVA® not only automatically balances the	The auto weight sense function is not easy to implement and is not precise. Usually, load	INTERFACE WITH	OTHER MACHINES
load weight in real time, but it also senses the load weight continually. The balance is adjusted accordingly allowing for very precise moves and	balancing is carried out manually by means of a pressure regulator or selector; Counter balancing is much slower because it takes	Thanks to the INDEVA® electronic control, endless interfaces are possible.	By means of traditi
load positioning.	longer for pneumatic signalling (by compressed air) to travel around the circuits than an electronic signal.	ELECTRONIC	CYCLE COUNTER
LOAD BALANCING ALON		Different actions	
Constant	Not constant	It can be associated with many different actions.	Only the ND MAINTENANCE
Special sensors and electronic controls allow perfect balancing along the whole stroke.	The cylinder pressure does not react as quickly as the arm movement required by the operator.	Simple	
VERTICAL M	OVEMENTS	Fault finding by means of microprocessor and remote service AppIndeva* <sup>2</sup> .	Fault finding, esp
Quick and effortless*	Slower and more effort required		
Thanks to its special finger tip sensing handle, the INDEVA® reacts instantaneously to the operator's touch, thus providing fine control of up/down movements.	The restriction of air flow in and out of the cylinders gives a much slower movement than the operator expects.		
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\*The effort required for lifting or lowering a load of any weight is equal to 0, 3 kg

## PNEUMATIC MANIPULATOR

#### LOAD POSITIONING

It requires lots of little corrective movements to reach the required position if load has to be placed in a restricted area. Load positioning implies an impact that may harm delicate loads.

Modifications to tooling functions are difficult and can result in costly upgrades by qualified technicians.

> Complicated and with fewer functions

By means of pneumatic lamps which are slow to react.

### THER MACHINES

By means of traditional means which allows for a limited scope application.

Difficult

Only the total cycle counter is available.

Fault finding, especially for complex systems, is very difficult.



Only the total cycle





Not precise

#### Difficult