

SAPA - Indice punzonatrice Punching machines contents



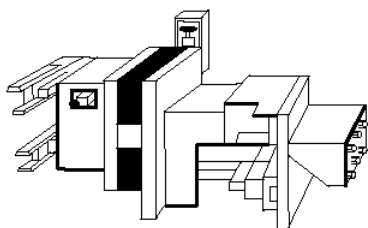
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**SAPA Indice punzonatrici
Punching machines contents**



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Codice - Code **ZPX14051/B**



sapa:

Sistema - Systems
Teknowindow

WIN 54 SYSTEM **WIN** 54^{TT} SYSTEM **WIN** 62 SYSTEM
WIN 62^{TT} SYSTEM/A **WIN** 65s SYSTEM **WIN** 65s^{TT} SYSTEM
WIN 70^{TT} SYSTEM **WIN** 82 SYSTEM **WIN** 90s SYSTEM
WIN 90s^{TT} SYSTEM **WIN** LIGNUM SYSTEM **WIN** LIGNUM^{TT} SYSTEM

Imballo compreso azionamento incluso (pedaliera)
Packing included drive unit included (foot pedal)

La punzonatrice è corredata di manuale
uso manutenzione e catalogo ricambi.
The punching machine is complete of
operation manual, and spares catalogue.

Accessorio - Accessories SAPA

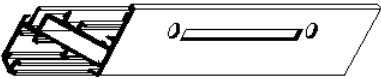
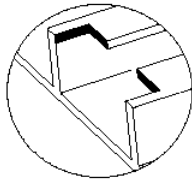

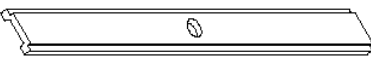
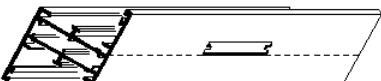
CARATTERISTICHE

cilindro diam. est. 200 mm. - int. 184 mm.
corsa utile stelo 30 mm.
pressione di esercizio .. 6 BAR
forza Kg. 1600
consumo aria per ciclo
normal litro 9,3
peso Kg. 43
ingombro 640 x 290 x h 350

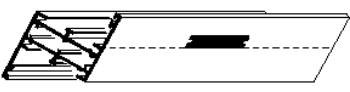
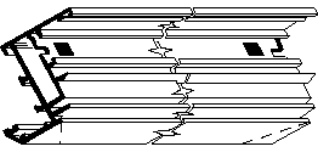
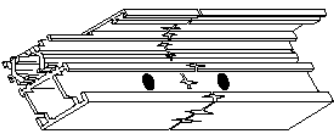
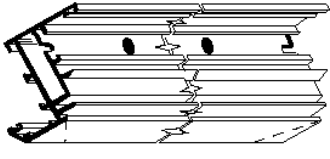
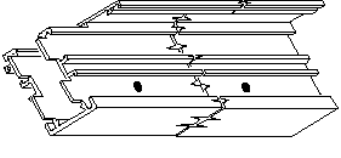


TECHNICAL SPECIFICATIONS

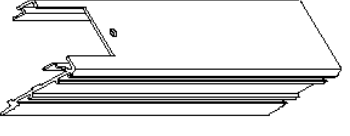
Cylinder 200 mm. dia. (ext.) - 184 mm. (int.)
piston stroke 30 mm.
working pressure 6 BAR
power Kg. 1600
air consumption 9,3 Nl per cycle
weight Kg. 43
Overall dimension 640 x 290 x h 350

<p>Fori e asola per maniglia (interasse fori 78 mm.) <i>Holes and slot for handle (hole center distance 78 mm.)</i></p>	<p>STAZIONE N° 1 <i>STATION one</i></p> <p>TEKNOWINDOW WIN 54 - 54 TT WIN 62 - 62 TT WIN 70 - 70 TT WIN 82</p>	<p style="text-align: right;">1</p> 
<p>Asportazione alette per passaggio astina <i>Removal of tounge for rod passage</i></p>	<p>STAZIONE N° 2 <i>STATION two</i></p> <p>TEKNOWINDOW WIN 54 - 54 TT WIN 62 - 62 TT WIN 70 - 70 TT WIN 82</p>	<p style="text-align: right;">2</p> 
<p>Fori su astina <i>Holes on rod</i></p>	<p>STAZIONE N° 3 <i>STATION three</i></p> <p>TEKNOWINDOW WIN 54 - 54 TT WIN 62 - 62 TT WIN 70 - 70 TT WIN 82</p>	<p style="text-align: right;">3</p> 
		<p style="text-align: right;">4</p> 
<p>Asola scarico acqua a filo camera <i>Slot for water drain in line whit chamber</i></p>	<p>STAZIONE N° 4 <i>STATION four</i></p> <p>TEKNOWINDOW WIN 54 - WIN 62 WIN LIGNUM</p>	<p style="text-align: right;">5</p> 

Codice - Code **ZPX14051**

<p>6</p> 	<p>STAZIONE N° 4 <i>STATION four</i></p> <p>TEKNOWINDOW WIN 54 - 54 TT WIN 62 - 62 TT WIN 70 TT WIN LIGNUM TT</p>	<p>Asola scarico acqua a filo guarnizione <i>Slot for water drain in line with gasket</i></p>
<p>7</p> 	<p>STAZIONE N° 5 <i>STATION five</i></p> <p>TEKNOWINDOW WIN 54 - 54 TT WIN 62 - 62 TT WIN 70 - 70 TT WIN 82 WIN 90S - 90STT WIN LIGNUM - TT</p>	<p>Asola aggancio e asola tiraggio squadretta <i>Hole and slot for corner joint</i></p>
<p>8</p> 	<p>STAZIONE N° 6 <i>STATION six</i></p>	<p>Foro per fissaggio cavallotto <i>Hole for cross-connector fixing</i></p>
<p>9</p> 	<p>TEKNOWINDOW WIN 54 - 54 TT WIN 62 - 62 TT WIN 70 - 70 TT WIN 65S - 65STT WIN 82 WIN 90S - 90STT WIN LIGNUM WIN LIGNUM TT</p>	<p>Foro per squadretta a spinare <i>Hole for broaching corner joint</i></p>
<p>10</p> 		<p>Foro per cavallotto a spinare <i>Hole for broaching cross-connector</i></p>

Kit optional - kit en option **ZHX17002**

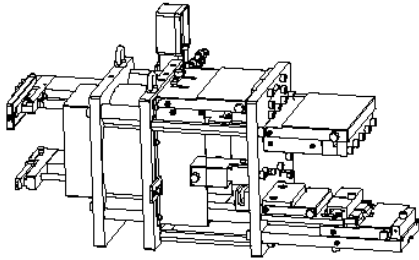
<p>11</p> 	<p>STAZIONE N° 7 <i>STATION seven</i></p> <p>TEKNOWINDOW WIN 90S - 90STT</p>	<p>Asola e foro per tappo passaggio binario <i>Slot and hole for rail plug</i></p>
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Kit optional - kit en option **ZHX17087**

<p>12</p> 	<p>STAZIONE N° 7 <i>STATION seven</i></p> <p>TEKNOWINDOW WIN 65S - 65STT</p>	<p>Asola e foro per tappo passaggio binario <i>Slot and hole for rail plug</i></p>
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Codice - Code **ZPX14445**

sapa:



Sistema R

- R** 40 SYSTEM **R** 50 SYSTEM **R** 50^{TT} SYSTEM
- R** 60^{TT} SYSTEM **R** 62^{TT} SYSTEM **R** 72^{TT 1.3} SYSTEM
- R** 85^{TT 1.0} SYSTEM

Imballo compreso azionamento incluso (pedaliera)
Packing included drive unit included (foot pedal)

La punzonatrice è corredata di manuale uso manutenzione e catalogo ricambi.
The punching machine is complete of operation manual, and spares catalogue.

Accessorio - Accessories ALUTEC

CARATTERISTICHE

cilindro diam. 200 mm.
corsa utile stelo 20 mm.
pressione di esercizio .. 6 BAR
forza Kg. 1740
consumo aria per ciclo
normal litro 7,4
peso Kg. 76
Ingombro 744 x 280 x h 368

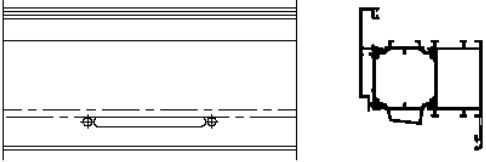
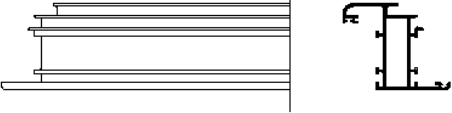
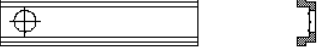
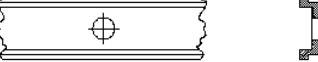


TECHNICAL SPECIFICATIONS

Cylinder 200 mm. dia.
piston stroke 20 mm.
working pressure 6 BAR
power Kg. 1740
air consumption 7,4 Nl per cycle
weight Kg. 76
Overall dimension 744 x 280 x h 368


	<p>STAZIONE N° 1 STATION one</p>	<p>1</p>
<p>Asola scarico acqua a filo camera <i>Slot for water drain in line whit chamber</i></p>	<p>R 40 R 40 Revamping R 50</p>	<p>2</p>
<p>Asola scarico acqua a filo guarnizione <i>Slot for water drain in line whit gasket</i></p>	<p>R 40 R 40 Revamping R 50 - R 50 TT R 60 TT - R 62 TT R 72 TT 1.3 R 85 TT</p>	<p>3</p>
		<p>4</p>

Codice - Code **ZPX14445**

5		<p>STAZIONE N° 2 STATION <i>two</i></p> <p>R 40 R 40 Revamping R 50 - R 50 TT R 60 TT - R 62 TT R 72 TT ^{1.3} R 85 TT</p>	<p>Fori e asola per maniglia (interasse fori 84,5 mm.)</p> <p><i>Holes and slot for handle (hole center distance 84,5 mm.)</i></p>
6		<p>STAZIONE N° 3 STATION <i>three</i></p> <p>R 40 R 40 Revamping R 50 - R 50 TT R 60 TT - R 62 TT R 72 TT ^{1.3} R 85 TT</p>	<p>Asportazione alette per passaggio astina</p> <p><i>Removal of toungees for rod passage</i></p>
7		<p>STAZIONE N° 4 STATION <i>four</i></p> <p>R 40 R 40 Revamping R 50 - R 50 TT R 60 TT - R 62 TT R 72 TT ^{1.3} R 85 TT</p>	<p>Fori su astina</p> <p><i>Holes on rod</i></p>
8		<p>STAZIONE N° 5 STATION <i>five</i></p> <p>R 40 R 40 Revamping R 50 - R 50 TT R 60 TT - R 62 TT R 72 TT ^{1.3} R 85 TT</p>	<p>Asola aggancio e asola tiraggio squadretta</p> <p><i>Slot and slot for corner joint</i></p>

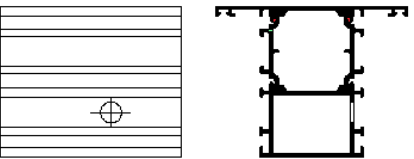
Codice - Code **ZPX14445**

Kit Optional - Kit en option **ZHX17213**

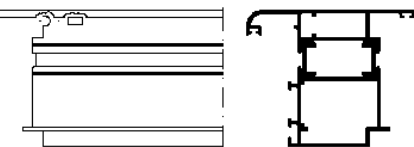
10	<p>Asola scarico condensa (esterna ed interna)</p> <p><i>Slot for water drainage (External and Internal)</i></p>	<p>STAZIONE N° 6 STATION <i>six</i></p> <p>R 40 R 40 Revamping R 50 - R 50 TT R 60 TT - R 62 TT R 72 TT ^{1.3} R 85 TT</p>	
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Il kit optional ZHX17213 deve essere ordinato congiuntamente alla punzonatrice

Kit Optional - Kit en option **ZHX17214**

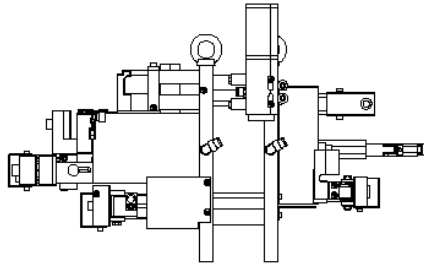
11	<p>Foro diam. 10,5 mm. per fissaggio cavallotto</p> <p><i>Hole diam. 10,5 mm. for cros-connector fixing</i></p>	<p>STAZIONE N° 7 STATION <i>seven</i></p> <p>R 40 R 40 Revamping R 50 - R 50 TT R 60 TT - R 62 TT R 72 TT ^{1.3} R 85 TT</p>	
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Kit Optional - Kit en option **ZHX17212**

12	<p>Asola aggancio e asola tiraggio squadretta su camera esterna</p> <p><i>Slot and slot for corner joint on external chamber</i></p>	<p>STAZIONE N° 8 STATION <i>eight</i></p> <p>R 72 TT ^{1.3}</p>	
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Il kit optional ZHX17212 deve essere montato in alternativa al kit ZHX17214

Codice - Code **ZPX14386**



Imballo compreso azionamento incluso (pedaliera)
Packing included drive unit included (foot pedal)

La punzonatrice è corredata di manuale
uso manutenzione e catalogo ricambi.
The punching machine is complete of
operation manual, and spares catalogue.

sapa:

Sistema - Systems
Teknowindow

WIN 65s SYSTEM **WIN 65s^{TT}** SYSTEM
WIN 90s SYSTEM **WIN 90s^{TT}** SYSTEM
WIN 140sa^{TT} SYSTEM

Accessorio - Accessories

SAPA

CARATTERISTICHE

cilindro diam. est. 212 mm. - int. 200 mm.
corsa utile stelo 20 mm.
pressione di esercizio .. 6 BAR
forza Kg. 1740
consumo aria per ciclo
normal litro 7,4
peso Kg. 59
Ingombro 591 x 268 x h 367



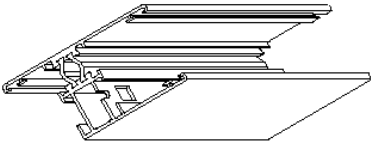
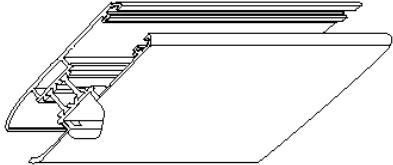
TECHNICAL SPECIFICATIONS

Cylinder 212 mm. dia. (ext.) - 200 mm. (int.)
piston stroke 20 mm.
working pressure 6 BAR
power Kg. 1740
air consumption 7,4 Nl per cycle
weight Kg. 59
Overall dimension 591 x 268 x h 367

<p>1</p>	<p>STAZIONE N° 1 STATION one</p> <p>TEKNOWINDOW WIN 65S WIN 65 STT WIN 90S WIN 90 STT</p>	<p>Asola scarico acqua Slot for water drain</p>
<p>2</p>	<p>STAZIONE N° 2 STATION two</p> <p>TEKNOWINDOW WIN 90 S WIN 90 STT</p>	<p>Asola e foro per tappo passaggio binario Slot and hole for rail plug</p>
<p>3</p>	<p>STAZIONE N° 3 STATION three</p> <p>TEKNOWINDOW WIN 65 S WIN 65 STT</p>	<p>Asola e foro per tappo passaggio binario Slot and hole for rail plug</p>



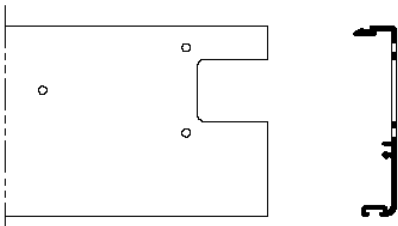
Codice - Code **ZPX14386**

<p>Asola aggancio e asola tiraggio squadretta <i>Slot and slot for corner joint</i></p>	<p>STAZIONE N° 4 <i>STATION four</i> TEKNOWINDOW WIN 65S WIN 65 STT WIN 90S WIN 90 STT WIN 140 saTT</p>	<p>5</p> 
<p>Fori squadretta anta taglio termico <i>Corner Holes for T.T. sash frame</i></p>	<p>STAZIONE N° 5 <i>STATION five</i> TEKNOWINDOW WIN 65 STT</p>	<p>6</p> 

Kit Optional - Kit en option **ZHX17090**

<p>Asola maniglia a vaschetta <i>Slot for handle</i></p>	<p>STAZIONE N° 6 <i>STATION six</i> TEKNOWINDOW WIN 65S WIN 65 STT WIN 90S WIN 90 STT</p>	<p>7</p> 
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Kit Optional - Kit en option **ZHX17172**

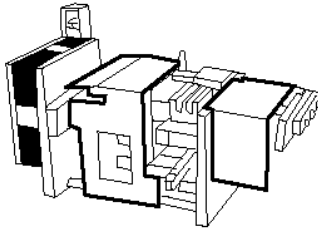
<p>Asola e fori per tappo passaggio binario <i>Slot and holes for rail plug</i></p>	<p>STAZIONE N° 7 <i>STATION seven</i> TEKNOWINDOW WIN 140 saTT</p>	<p>8</p> 
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Codice - Code **ZPX14456**

sapa:

Sistema - Systems

R 50s
SYSTEM



Imballo compreso azionamento incluso (pedaliera)
Packing included drive unit included (foot pedal)

La punzonatrice è corredata di manuale
uso manutenzione e catalogo ricambi.
The punching machine is complete of
operation manual, and spares catalogue.

Accessorio - Accessories ALUTEC

CARATTERISTICHE

cilindro diam. 200 mm.
corsa utile stelo 26 mm.
pressione di esercizio .. 6 BAR
forza Kg. 1740
consumo aria per ciclo
normal litro 9,62
peso Kg. 49
ingombro 623 x 248 x h 317

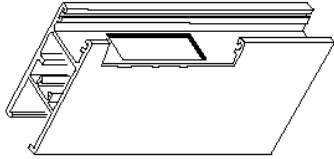
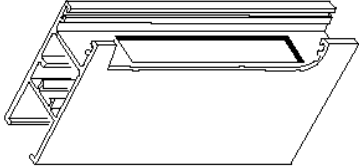


TECHNICAL SPECIFICATIONS

Cylinder 200 mm. dia.
piston stroke 26 mm.
working pressure 6 BAR
power Kg. 1740
air consumption 9,62 Nl per cycle
weight Kg. 49
Overall dimension 623 x 248 x h 317

<p>1</p>	<p>STAZIONE N° 1 STATION <i>one</i></p> <p>R 50S</p>	<p>Asola aggancio e asola tiraggio squadretta (anta e telaio)</p> <p>Slot and slot for corner joint (wing and frame)</p>
<p>2</p>	<p>STAZIONE N° 2 STATION <i>two</i></p> <p>R 50S</p>	<p>Asola scarico acqua</p> <p>Slot for water drain</p>
<p>3</p>	<p>STAZIONE N° 3 STATION <i>three</i></p> <p>R 50S</p>	<p>Asola e foro per tappo passaggio binario</p> <p>Slot and hole for rail plug</p>

Codice - Code **ZPX14456**

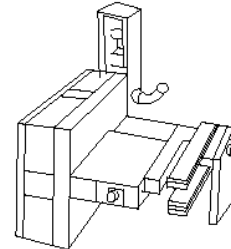
<p>Asola per carrello singolo <i>Slot for single carriage</i></p>	<p>STAZIONE N° 4 <i>STATION four</i></p>	 <p style="text-align: right;">4</p>
<p>Asola per carrello doppio <i>Slot for double carriage</i></p>	<p>R 50S</p>	 <p style="text-align: right;">5</p>

sapa:

Codice - Code **ZPX14057**

Sistema R

R 40 SYSTEM **R** 50 SYSTEM **R** 50^{TT} SYSTEM
R 60^{TT} SYSTEM **R** 62^{TT} SYSTEM **R** 72^{TT1.3} SYSTEM
R 85^{TT1.0} SYSTEM



Imballo compreso azionamento incluso (valvola)
Packing included drive unit included (valve)

La punzonatrice é corredata di manuale uso manutenzione e catalogo ricambi.
The punching machine is complete of operation manual, and spares catalogue.

Accessorio - Accessories **ALUTEC**

CARATTERISTICHE TECNICHE

cilindro diam. est. 112 mm. - int. 100 mm.
corsa utile stelo 23 mm.
pressione di esercizio .. 6 BAR
forza Kg. 900
consumo aria per ciclo
normal litro 3,88
peso Kg. 15
ingombro 250 x 230 x h 280



TECHNICAL SPECIFICATIONS

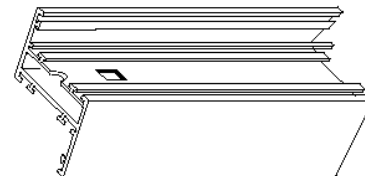
Cylinder 112 mm. dia. (ext.) - 100 mm. (int.)
piston stroke 23 mm.
working pressure 6 BAR
power Kg. 900
air consumption 3,88 N/l per cycle
weight Kg. 15
Overall dimension 250 x 230 x h 280

STAZIONE N° 1
STATION **one**

Asola aggancio e asola
tiraggio squadretta

Slot and slot for corner joint

R 40
R 40 Revamping
R 50 - R 50 TT
R 60 TT - R 62 TT
R 72 TT^{1.3}
R 85 TT

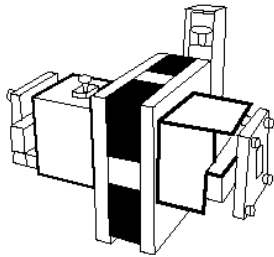


1

Codice - Code **ZPX14058**

sapa:

Sistema - Systems



GR **14**
SYSTEM

Imballo compreso azionamento incluso (pedaliera)
Packing included drive unit included (foot pedal)

La punzonatrice è corredata di manuale
uso manutenzione e catalogo ricambi.
*The punching machine is complete of
operation manual, and spares catalogue.*

Accessorio - Accessories COMPAS

CARATTERISTICHE TECNICHE

cilindro diam. est. 200 mm. - int. 184 mm.
corsa utile stelo 30 mm.
pressione di esercizio .. 6 BAR
forza Kg. 1600
consumo aria per ciclo
normal litro 9,3
peso Kg. 28
Ingombro 380 x 250 x h 300

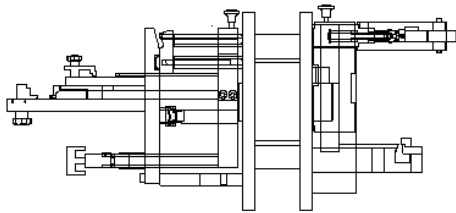


TECHNICAL SPECIFICATIONS

Cylinder 200 mm. dia. (ext.) - 184 mm. (int.)
piston stroke 30 mm.
working pressure 6 BAR
power Kg. 1600
air consumption 9,3 N/l per cycle
weight Kg. 28
Overall dimension 380 x 250 x h 300

<p>1</p>	<p>STAZIONE N° 1 STATION <i>one</i></p> <p>GR 14</p>	<p>Asola per passaggio barre verticali Slot for vertical bars passage</p>
<p>2</p>	<p>STAZIONE N° 2 STATION <i>two</i></p> <p>GR 14</p>	<p>Fori per passaggio barre verticali Holes for assembling vertical bars</p>
<p>3</p>		

Codice - Code **ZPX14400**



sapa:

Sistema - Systems

Alfil

A54 RPT SYSTEM

A65 RPT SYSTEM

Imballo compreso azionamento incluso (pedaliera)
Packing included drive unit included (foot pedal)

La punzonatrice è corredata di manuale
uso manutenzione e catalogo ricambi.
The punching machine is complete of
operation manual, and spares catalogue.

Accessorio - Accessories

SAPA

CARATTERISTICHE

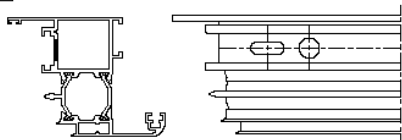
cilindro diam. est. 200 mm. - int. 184 mm.
corsa utile stelo 30 mm.
pressione di esercizio .. 6 BAR
forza Kg. 1600
consumo aria per ciclo
normal litro 9,3
peso Kg. 50
Ingombro 550 x 280 x h 340



TECHNICAL SPECIFICATIONS

Cylinder 200 mm. dia. (ext.) - 184 mm. (int.)
piston stroke 30 mm.
working pressure 6 BAR
power Kg. 1600
air consumption 9,3 Nl per cycle
weight Kg. 50
Overall dimension 550 x 280 x h 340

1



STAZIONE N° 1
STATION **one**

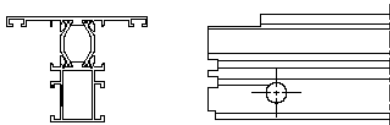
Foro aggancio e asola
tiraggio squadretta

Hole and slot for corner joint

A54 RPT SYSTEM

A65 RPT SYSTEM

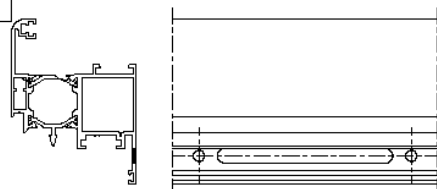
2



Foro per fissaggio cavallotto

Hole for cross-connector fixing

3



STAZIONE N° 2
STATION **two**

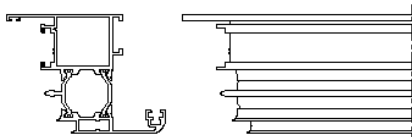
Fori e asola per maniglia
(Interasse fori 104 mm.)

*Holes and slot for handle
(hole center distance 104 mm.)*

A54 RPT SYSTEM

A65 RPT SYSTEM

4



STAZIONE N° 3
STATION **three**

Asportazione alette per
passaggio astina

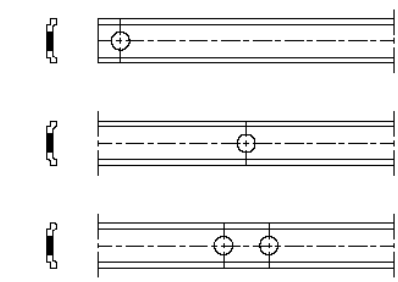


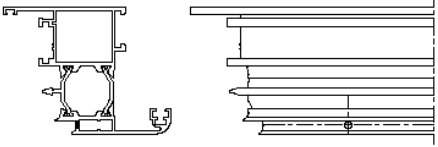
*Removal of tounge for
rod passage*

A54 RPT SYSTEM



A65 RPT SYSTEM



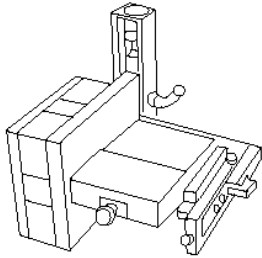
Codice - Code ZPX14400

<p>Asola su astina <i>Slot on rod</i></p>	<p>STAZIONE N° 4 <i>STATION four</i></p> <p>A54 RPT SYSTEM A65 RPT SYSTEM</p>	<p>5</p> 
<p>Asola scarico acqua a filo camera <i>Slot for water discharge in line with chamber</i></p>	<p>STAZIONE N° 5 <i>STATION five</i></p> <p>A54 RPT SYSTEM A65 RPT SYSTEM</p>	<p>6</p> 
<p>Asola scarico acqua a filo dentino <i>Slot for water discharge in line with tooth</i></p>	<p>A54 RPT SYSTEM A65 RPT SYSTEM</p>	<p>7</p> 
<p>Foratura squadretta a spinare D=3,9 mm. su camera piccola <i>Diam. 3,9 mm. hole for broaching corner on small chamber</i></p>	<p>STAZIONE N° 6 <i>STATION six</i></p> <p>A54 RPT SYSTEM A65 RPT SYSTEM</p>	<p>8</p> 

Kit Optional - Kit en option ZHX17184

<p>Asola per scarico condensa Lavorazione interna <i>Slot for condensation discharge Internal working</i></p>	<p>STAZIONE N° 7 <i>STATION seven</i></p> <p>A54 RPT SYSTEM A65 RPT SYSTEM</p>	<p>9</p> 
<p>Asola per scarico condensa Lavorazione esterna <i>Slot for condensation discharge External working</i></p>	<p>A54 RPT SYSTEM A65 RPT SYSTEM</p>	<p>10</p> 

Codice - Code **ZPX14437**



sapa:

Sistema - Systems

R 72^{TT 1.3}
SYSTEM

Imballo compreso azionamento incluso (valvola)
Packing included drive unit included (valve)

La punzonatrice è corredata di manuale
uso manutenzione e catalogo ricambi.
*The punching machine is complete of
operation manual, and spares catalogue.*

Accessorio - Accessories

ALUTEC

CARATTERISTICHE TECNICHE

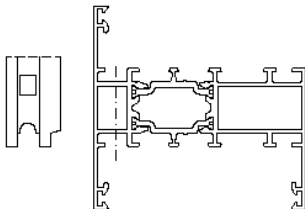
cilindro diam. int. 135 mm.
corsa utile stelo 23 mm.
pressione di esercizio .. 6 BAR
forza Kg. 900
consumo aria per ciclo
normal litro 3,88
peso Kg. 11
ingombro 230 x 250 x h 180



TECHNICAL SPECIFICATIONS

Cylinder 135 mm. (int.)
piston stroke 23 mm.
working pressure 6 BAR
power Kg. 900
air consumption 3,88 Nl per cycle
weight Kg. 11
Overall dimension 230 x 250 x h 180

1



STAZIONE N° 1
STATION one

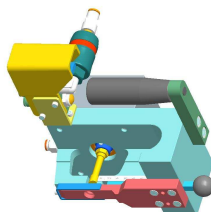
R 72^{TT 1.3}
SYSTEM

Asola aggancio e asola
tiraggio squadretta su camera esterna

*Slot and slot for corner joint on external
chamber*

EASY

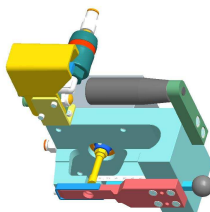
sapa:



PUNZONATRICE PNEUMATICA PORTATILE HANDLY PUNCHING MACHINE

LISTINO PREZZI – <i>PRICE LIST</i>			03/2012
CODICE/ <i>CODE</i>	DESCRIZIONE – <i>ITEM</i>	LAVORAZIONE – <i>WORKING</i>	
ZPX14900	GR 9	FORO Ø 11,5 mm	
ZPX14904	FB 12	FORO Ø 11,5 mm	
ZPX14918	FB 12 Ala Lunga	FORO Ø 11,5 mm	
ZPX14901	R40	FORO Ø 10,5 mm	
ZPX14905	R50	FORO Ø 10,5 mm	
ZPX14906	R50TT	FORO Ø 10,5 mm	
ZPX14921	R60TT	FORO Ø 10,5 mm Cavallotto	
ZPX14902	R40 SCURETTO – profilo 800366	FORO Ø 10,5 mm	

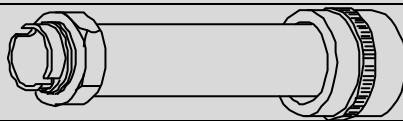
EASY

PUNZONATRICE PNEUMATICA PORTATILE HANDLY PUNCHING MACHINE

LISTINO PREZZI – PRICE LIST			03/2012
CODICE/CODE	DESCRIZIONE – ITEM	LAVORAZIONE – WORKING	
MATRICI DI RICAMBIO			
MMX42944	GR 9 – FB 12 – FB 12 Ala Lunga	FORO Ø 11,5 mm	
MMX42941	R40	FORO Ø 10,5 mm	
MMX42946	R50	FORO Ø 10,5 mm	
MMX42947	R50TT	FORO Ø 10,5 mm	
MMX43769	R60TT	FORO Ø 10,5 mm Cavallotto	
MMX42942	R40 SCURETTO – profilo 800366	FORO Ø 10,5 mm	
PUNZONI DI RICAMBIO			
MPX43013	GR 9 – FB 12	FORO Ø 11,5 mm	
MPX43014	R40 – R50 – R60TT	FORO Ø 10,5 mm	
MPX43647	FB 12 Ala Lunga	FORO Ø 11,5 mm	
MPX43842	R50TT	FORO Ø 10,5 mm	
MPX44860	R40 SCURETTO – profilo 800366	FORO Ø 10,5 mm	

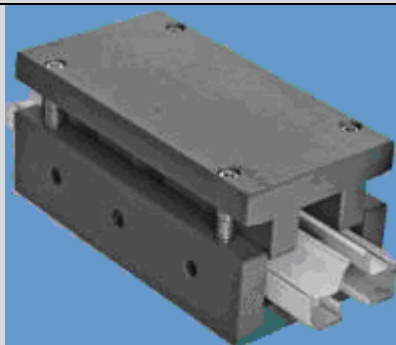
CANNOTTO PORTAFRESE/CUTTERS SLEEVE
PER INTESTATRICI COMALL/FOR COMALL END-MILLING MACHINES



CODICE/CODE	
ZEX17147	
ZEX17710 per intestatrici SILVER LINE	

EASY CLAMP

KIT INTESTATURA FERMAVETRI / MILLING ROUND EDGED GLAZING BEADS



CODICE/CODE	PREZZO/PRICE Euro
ZEX17210	

GRUPPI FRESE PER FERMAVETRO



CODICE/CODE	SERIE	LAVORAZIONE	
FDX30324	R40/R50/R60TT	Intestatura Fermavetro	

GRUPPI FRESE – MILLING CUTTERS GROUPS


CODICE/CODE	SERIE	LAVORAZIONE	
FDX30122	R40	Intestatura persiana	
FDX30124	R40	Intestatura	
FDX30125	R40	Intestatura serie arrotondato rotazione orario	
FDX30126	R40	Intestatura serie arrotondato rotazione antiorario	
FDX30127	R40	Intestatura serie piana	
FDX30128	R40 - R50	Intestatura serie piana	
FDX30129	R40 - R50	Intestatura	
FDX30130	R40 – R50 –R50TT	Intestatura	
FDX30131	R50	Intestatura	
FDX30132	R50	Intestatura serie arrotondato rotazione orario	
FDX30133	R50	Intestatura serie arrotondato rotazione antiorario	
FDX30134	R50	Intestatura serie piana	
FDX30135	R50TT	Intestatura	
FDX30139	R60TT	Intestatura	
FDX30140	R60TT	Intestatura serie piana	
FDX30409	R62TT	Intestatura profilo R62C10	
FDX30550	R72TT	Intestatura	
FDX30691	R72TT	Intestatura profilo R72C06	
FDX30692	Win.Teknowall	Intestatura profilo 1W54108	