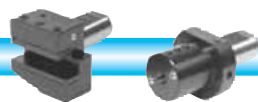




**INDICE
CONTENTS**

<p>1 Pinze di serraggio <i>Clamping collets</i></p> 	<p>3 Pinze spinte din 6343 <i>Collets din 6343</i></p> 	<p>4 Pinze di avanzamento <i>Feed fingers collets</i></p> 	<p>4 Pinze di avanzamento <i>Feed fingers collets</i></p> 
<p>5 Pinze a doppio cono <i>Double cone collets</i></p> 	<p>5 Pinze tirate <i>Draw back collets</i></p> 	<p>5 Pinze a cono morse <i>Morse taper collets</i></p> 	<p>6-9 Pinze torni plurimandrino <i>Collets multispindle lathes</i></p> 
<p>6-9 Pinze torni plurimandrino <i>Collets multispindle lathes</i></p> 	<p>6-9 Pinze torni plurimandrino <i>Collets multispindle lathes</i></p> 	<p>6-9 Pinze torni plurimandrino <i>Collets multispindle lathes</i></p> 	<p>6-9 Pinze torni plurimandrino <i>Collets multispindle lathes</i></p> 
<p>10 Pinze per caricatori <i>Barloaders collets</i></p> 	<p>12 Pinze per caricatori <i>Barloaders collets</i></p> 	<p>11-13 Rotanti per caricatori <i>Barloaders revolving</i></p> 	<p>11-13 Rotanti per caricatori <i>Barloaders revolving</i></p> 
<p>14 Bussole fisse met.duro <i>Hard metal fixed bushes</i></p>  <p>Metallo duro <i>Hard metal</i></p>	<p>15-16 Bussole registrabili <i>Adjustable bushes</i></p>  <p>Metallo duro <i>Hard metal</i></p>	<p>17 Pinze ERC din 6499B <i>ERC collets din 6499B</i></p> 	<p>18 Pinze portamaschi <i>Tap holder collets</i></p>  <p>DIN 6499B</p>
<p>19 Pinze portamaschi <i>Tap collets with extension</i></p>  <p>DIN 6499B</p>	<p>19 Pinze per alesatura <i>Reamer collets</i></p>  <p>DIN 6499B</p>	<p>20 Contenitori per pinze <i>ERC racks</i></p> 	<p>20 Pinze ERC con tenuta <i>Sealed collets</i></p>  <p>DIN 6499B</p>
<p>21 Ghiere per pinze ERC <i>ERC clamping nuts</i></p> 	<p>21 Ghiere per pinze ERC <i>ERC clamping nuts</i></p> 	<p>21 Ghiere per pinze ERC <i>ERC clamping nuts</i></p> 	<p>21 Chiavi per ghiera ERC <i>ERC nuts pin spanners</i></p> 
<p>22-23 Morse pneumatiche <i>Pn. chucking devices</i></p> 	<p>22-23 Morse pneumatiche <i>Pn. chucking devices</i></p> 	<p>22-23 Morse pneumatiche <i>Pn. chucking devices</i></p> 	<p>24 Morse pneumatiche <i>Pn. chucking devices</i></p> 





24 Morse pneumatiche
Pn. chucking devices



26 Porta bussole per CNC
CNC bush holders



26 Porta bussole per CNC
CNC bush holders



27 Porta utensili per CNC
CNC toolholders



27 Porta utensili per CNC
CNC toolholders



28 Porta bussole per CNC
CNC bush holders



29 Porta utensili per CNC
CNC toolholders



30 Porta bussole per CNC
CNC bush holders



30 Porta bussole per CNC
CNC bush holders



31 Porta bussole per CNC
CNC bush holders



31 Porta utensili per CNC
CNC toolholders



31 Porta utensili per CNC
CNC toolholders



32 Porta utensili per CNC
CNC toolholders



39 Porta bussole per CNC
CNC bush holders



39 Porta utensili per CNC
CNC toolholders



40 Porta bussole per CNC
CNC bush holders



41 Porta utensili per CNC
CNC toolholders



41 Porta utensili per CNC
CNC toolholders



41 Porta utensili per CNC
CNC toolholders



41 Porta bussole per CNC
CNC bush holders



43 Bussole per baren
Boring bar sleeves



44 Bussole per baren
Boring bar sleeves



45 Bussole per baren
Boring bar sleeves



45 Bussole per baren
Boring bar sleeves



46 Bussole per baren
Boring bar sleeves



46 Bussole per baren
Boring bar sleeves



46 Bussole per baren
Boring bar sleeves



47 Bussole per baren
Boring bar sleeves



48 Bussole per cono morse
Morse taper bushes



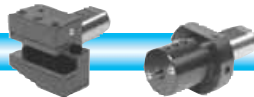
48 Bussole per cono morse
Morse taper bushes



49 Bussole per coduli
Bushes



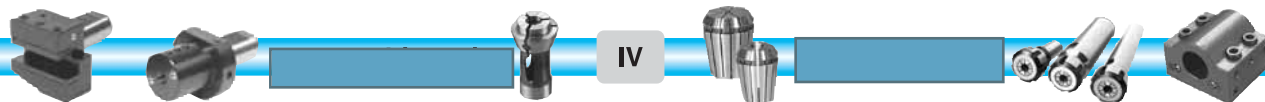
52 VDI 3425-2
B1-B2

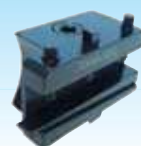
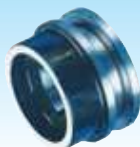
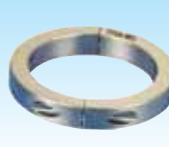
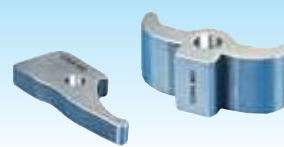
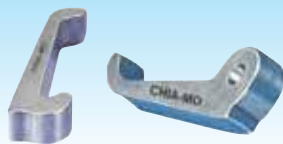
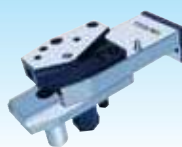
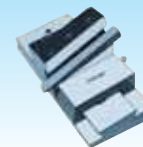


**INDICE
CONTENTS**

53 VDI 3425-2 B3-B4 	54 VDI 3425-2 B5-B6 	55 VDI 3425-2 B7-B8 	56 VDI 3425-2 C1-C2 
57 VDI 3425-2 C3-C4 	58 VDI 3425-2 D1-D2 	59 VDI 3425-2 E1 	60 VDI 3425-2 E2 
61 VDI 3425-2 P,pinza ERC E4 ERC collet holders 	61 VDI 3425-2 P,cono morse F1 Morse taper holders 	62 VDI 3425-2 P,brocchia R2 Broach holders 	62 VDI 3425-2 Contropunta V3 Revolving tailstock  <i>A compressione With compression</i>
63 VDI 3425-2 P,alesatore K3 Reamer holders  <i>Ref. interna Coolant flow</i>	64 VDI 3425-2 P,maschio M1 Tap holders 	64 VDI 3425-2 P,filiera Y1 Die holders 	65 VDI 3425-2 Fermo barra S3 Rotating stop-shock 
67 P,utensile combinato Turn and drill holder 	68 P,utensile combinato Turn and drill holder 	68 P,utensile combinato Turn and drill holder 	69 P,utensile combinato Turn and drill holder 
70-71 P,utensile registrabile Adjustable toolholder 	70-71 P,utensile registrabile Adjustable toolholder 	70-71 P,bareno registrabile Adjust. boring holder 	72 Supportino guida barra Supporting bar shaft 
72 Porta godroni Knurl holders 	73 P,bareno registrabile Adjust. boring holder 	75 P,utensile per recesso Recessing toolholder 	76 Porta punte registrabile Adjustable collet chucks 
77 Porta alesatori flottanti Floating reamer holder 	78 Porta alesatori flottanti Floating reamer holder  <i>Refr. interna Coolant flow</i>	79 P,alesatori cono morse Morse taper reamer holder  <i>Refr. interna Coolant flow</i>	80 Mandrini ERC doppi Double-seated spindles  DIN 6499B



<p>81 Mandrini ERC doppi <i>Double-seated spindle</i></p> 	<p>82-85 Mandrini ERC ghiera mini <i>Mini nut ERC spindle</i></p>  <p>DIN 6499B</p>	<p>82-85 Mandrini ERC ghiera mini <i>Mini nut ERC spindle</i></p>  <p>DIN 6499B</p>	<p>86-87 Mandrini ERC ghiera ex. <i>Ex. nut ERC spindle</i></p>  <p>DIN 6499B</p>
<p>88-90 Mandrini ERC ghiera std. <i>Std. nut ERC spindle</i></p>  <p>DIN 6499B</p>	<p>88-90 Mandrini ERC ghiera std. <i>Std. nut ERC spindle</i></p>  <p>DIN 6499B</p>	<p>91 Mandrini a cono morse <i>Morse taper spindle</i></p>  <p>DIN 6499B</p>	<p>91 Mandrini ERC ghiera mini <i>Mini nut ERC spindle</i></p>  <p>DIN 6499B</p>
<p>92 Fermo barra rotante <i>Adjustable stop-shock</i></p> 	<p>93 Fermo barra rotante <i>Adjustable stop-shock</i></p> 	<p>93 Contropunta rotante <i>Revolving live centre</i></p> 	<p>94-96 Contropunta cono morse <i>Morse taper live centre</i></p> 
<p>94-96 Contropunta rotante <i>Revolving live centre</i></p> 	<p>94-96 Contropunta rotante <i>Revolving live centre</i></p> 	<p>94-96 Cuspidi intercambiabili <i>Interchangeable inser</i></p> 	<p>97 Brocciatore registrabile <i>Adjustable broach holder</i></p> 
<p>98 Brocciatore fisso <i>Broach toolholder</i></p> 	<p>98 Brocciatore cono morse <i>Morse taper broach holder</i></p> 	<p>99-100 Brocche <i>Broach</i></p> 	<p>101 Brocciatore per esterni <i>Outside broach holders</i></p> 
<p>103-104 P.maschi compensati <i>Floating tap holders</i></p> 	<p>104 P.maschi compensati <i>Floating tap holders</i></p>  <p>Corsa maggiorata <i>Bigger stroke</i></p>	<p>105-106 P.maschi compensati <i>Floating tap holder</i></p>  <p>Pinza ERC <i>ERC collet</i></p>	<p>107 P.maschi compensati <i>Floating tap holders</i></p>  <p>Pinza ERC <i>ERC collet</i></p>
<p>108 P. maschi doppi <i>Double tap holder</i></p>  <p>Pinza ERC <i>ERC collet</i></p>	<p>108 P. filiera compensati <i>Floating die holders</i></p> 	<p>109 P. maschi compensati <i>Floating tap holder</i></p> 	<p>109 Bussole p. maschi <i>Tap holder bushes</i></p> 
<p>110 P.filiera compensati <i>Floating die holders</i></p> 	<p>111 P.filiera compensati <i>Floating die holders</i></p>  <p>Corsa maggiorata <i>Bigger stroke</i></p>	<p>111 Cappellotti p.filiera <i>Die holder caps</i></p> 	<p>113 P.utensili trasversali <i>Crosswise toolholders</i></p> 

**114** P.utensili trasversali
Crosswise toolholders**115** P.utensili trasversali
Crosswise toolholders**116-117** P.utensili "Index"
"Index" toolholders**118** P.utensili "Index"
"Index" toolholders**119** P.utensili trasversali
Crosswise toolholders**120** P.utensili trasversali
Crosswise toolholders**121** P.utensili trasversali
Crosswise toolholders**123** Porta godroni
Knurl holders**126-127** P.filiera fissi
Fixed die holders**128-131** Canotti porta pinza
Collet holder sleeves**128-131** Ghiere
Clamping nuts**133-134** Manicotti porta levette
Lever-holder sleeves**133-134** Anelle di chiusura
Chuck rings**133-134** Anelle di chiusura
Chuck rings**135** Settori in bronzo
Bronze rings**135-139** Levette
Levers**135-139** Levette di serraggio
Clamping levers**141-148** Camme a disco-ad anello
Tube and disk cams**149-150** Porta camme
Cam holder**149-150** Porta camme
Cam holder**155** Viti senza fine
Worms**155** Ruote elicoidali
Worm wheels**156** Ingranaggi
Pinion gears - wire coil**157** Corone-Flange-Catene
Gear-Flange-Chain**160-161** Albero mandrino
Shaft chuck**162-163** Supporti e carri verticali
Vertical slide**164** Carri verticali
Vertical slide**165** Carri tornitura longit.
Turn along slide**166** Carri trasversali
Crosswise slide**167** Dispos. apri-chiudi pinza
Open-close collet device**168** Contropunta
Tailstock**169** Dispositivo fermo barra
Stop device