
T-CUT

ICS "Aufspann-Verfahren"

VIA Porrini

A S E
Applied Systems Engineering

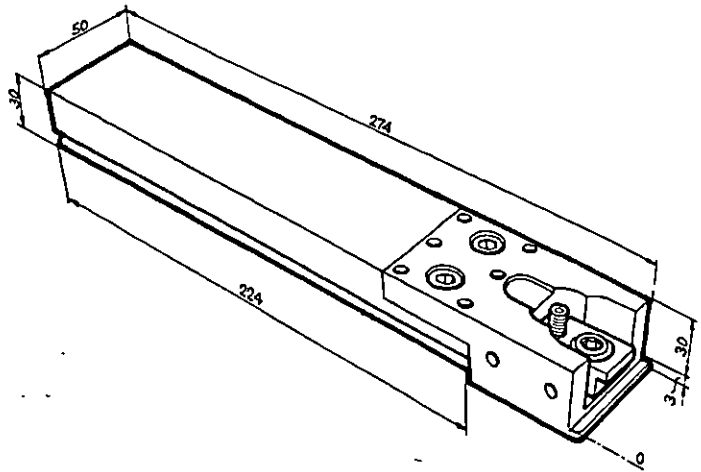


Tooling System of Büchler AG + Erowa AG

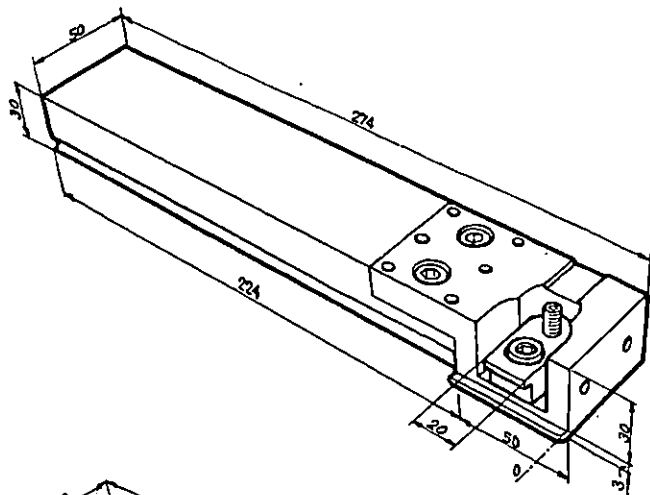


Schlittenspanner
Slide clamp
Glissière de serrage
Slitta serrapezzo

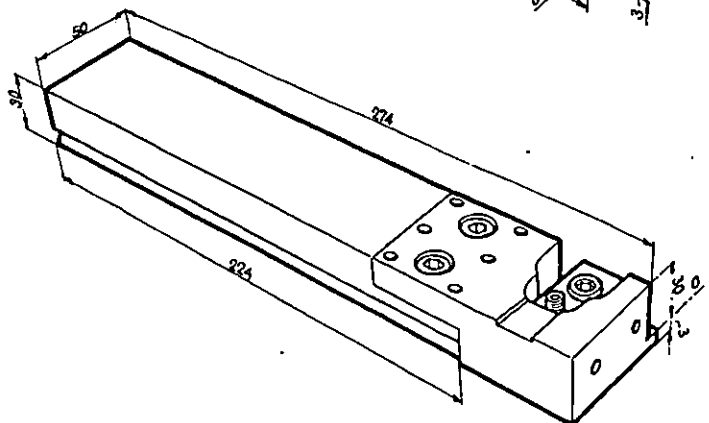
ICS 404.00
Schlittenspanner 30/274
Slide clamp 30/274
Glissière de serrage 30/274
Slitta serrapezzo 30/274



ICS 405.00
Schlittenspanner rechts 30/274
Slide clamp right 30/274
Glissière de serrage droite 30/274
Slitta serrapezzo destra 30/274



ICS 406.00
Schlittenspanner links 30/274
Slide clamp left 30/274
Glissière de serrage gauche
30/274
Slitta serrapezzo sinistra 30/274



ICS 410.00

Schlittenspanner 26

Spannbereich variabel

Slide clamp 26

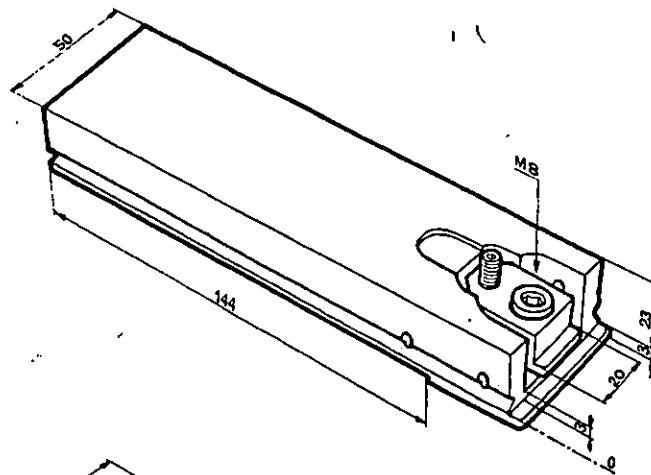
Clamping range variable

Glissière de serrage 26

Capacité de serrage variable

Slitta serrapezzo 26

Campo di serraggio variabile



ICS 415.00

Schlittenspanner 12

Spannbereich bis 12 mm

Slide clamp 12

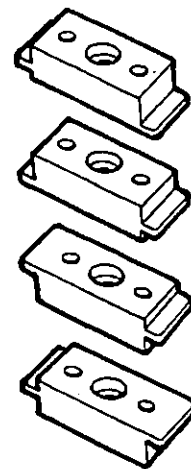
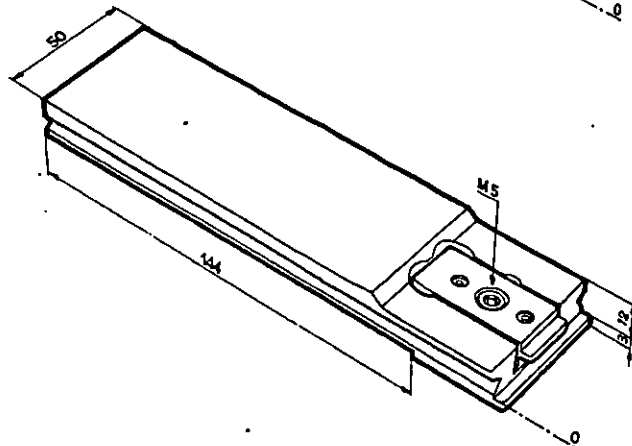
Clamping range up to 12 mm

Glissière de serrage 12

Capacité de serrage jusqu'à 12 mm

Slitta serrapezzo 12

Campo di serraggio fino a 12 mm

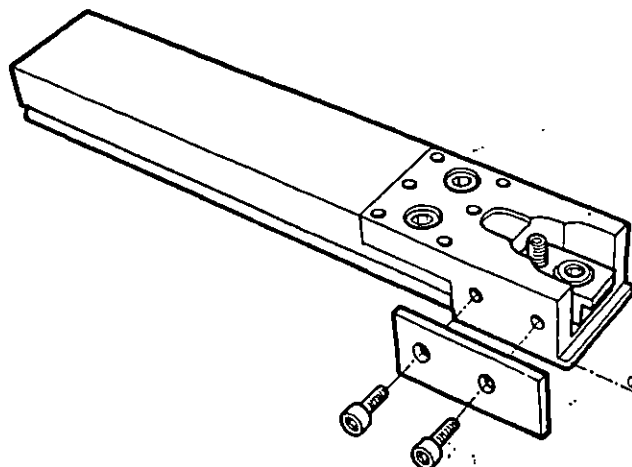


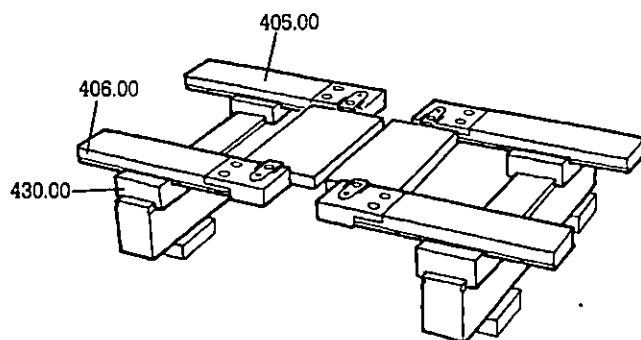
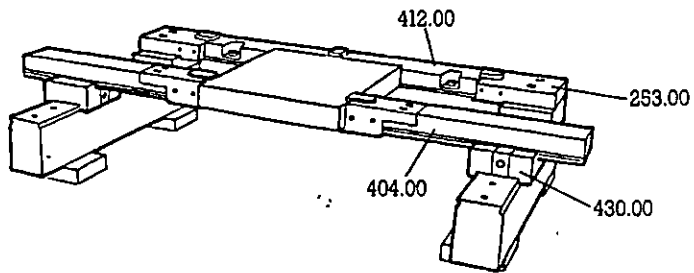
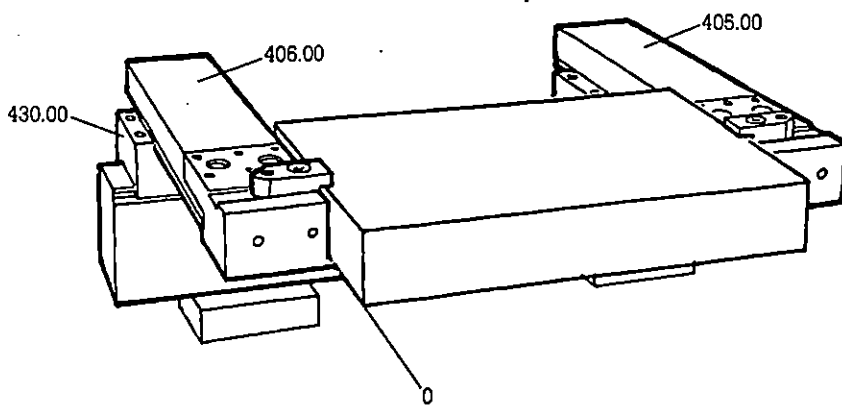
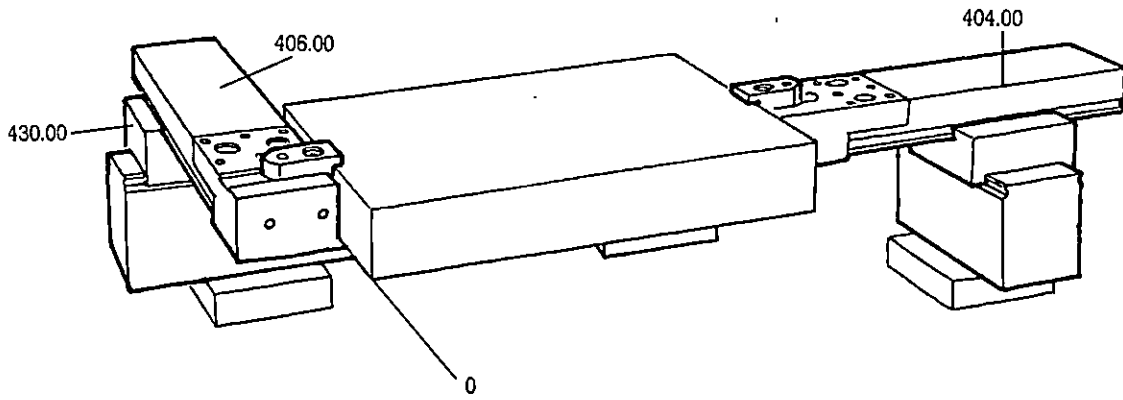
Beispiel: Anschlag

Example: Stop

Exemple: Arrêt

Esempio: Arresto



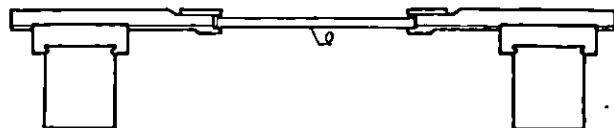
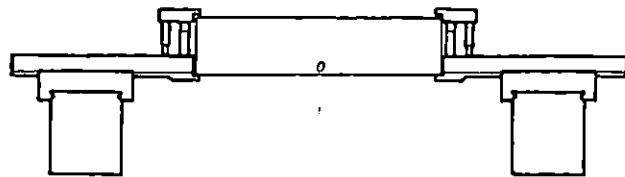
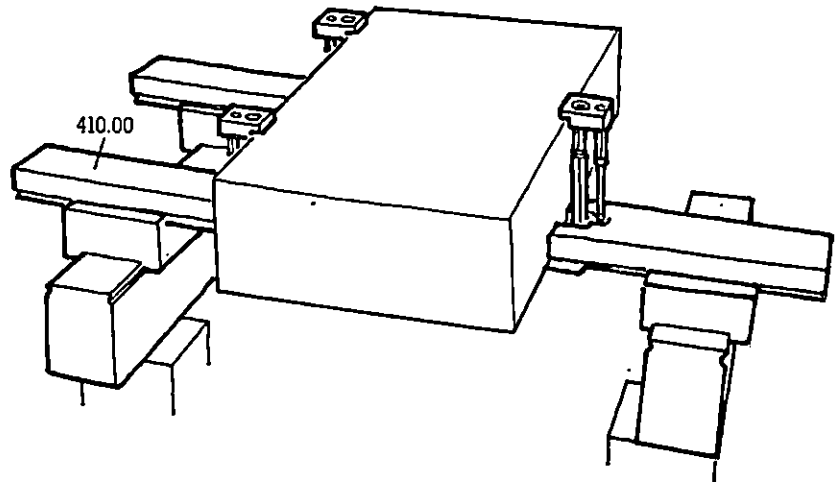


Mit zusätzlichen Distanzmuttern aus dem Doppelspannsatz ICS 420.00 können beliebig hohe Werkstücke bequem gespannt werden.

With additional distance nuts out of the double clamping set ICS 420.00 any height of workpieces can easily be clamped on.

Des écrous d'écartement additionnels du double jeu de brides permettent de serrer un hauteur quelconque.

Con appositi distanziatori dal gioco di bride ICS 420.00 si possono serrare pezzi alti comodamente.

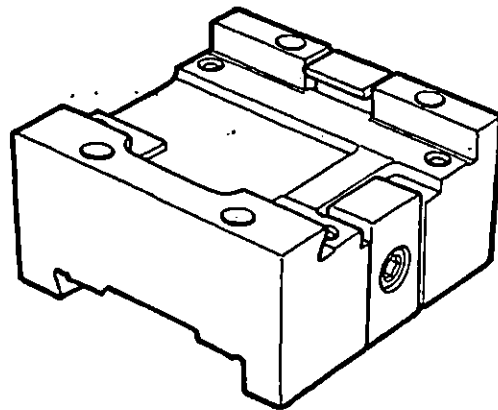


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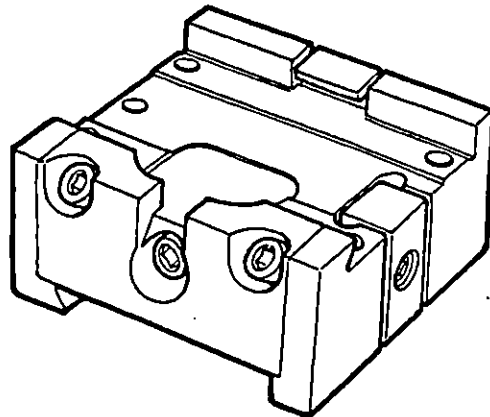
ICS
Integrated Clamping System

Führung

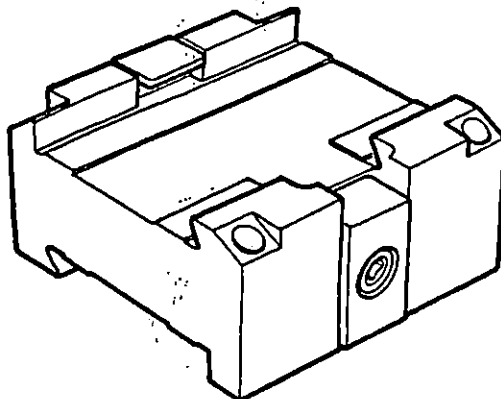
ICS 430.00
Kreuzführung



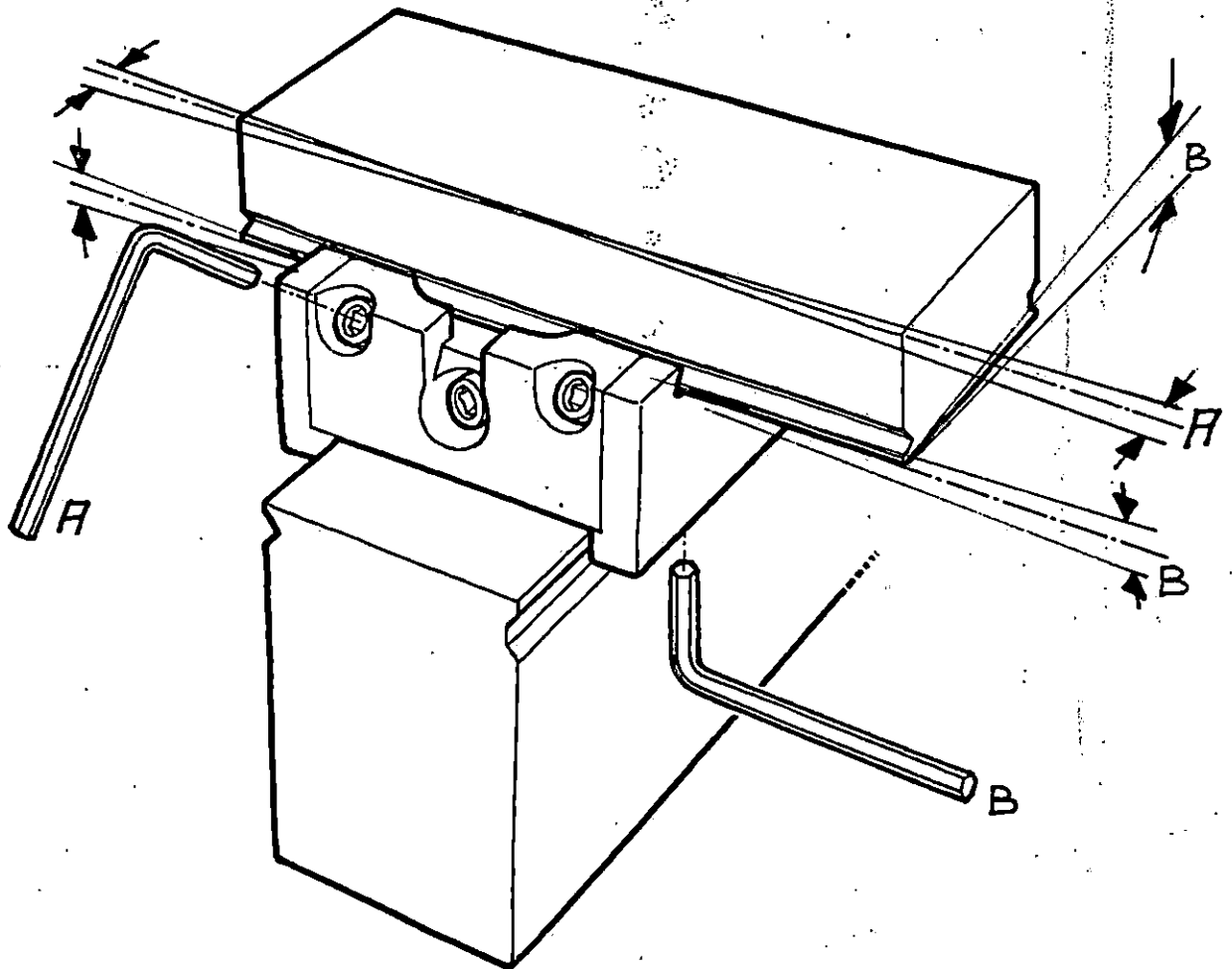
ICS 432.00
Kreuzführung 3D



ICS 431.00
Parallelführung



3-D-Justierung
mit 6-Kt.-Schlüssel A
seitliches Ausrichten
mit 6-Kt.-Schlüssel B
planausrichten



Neuartiges Ausrichten
New alignment
Nouvelle méthode d'alignement
Nuovo metodo di allineamento

ASE

Tooling System of **Büchler AG + Erowa AG**

ICS

Schlittenanschlag
Slide stop
Butée pour glissière
Arresto per slitta

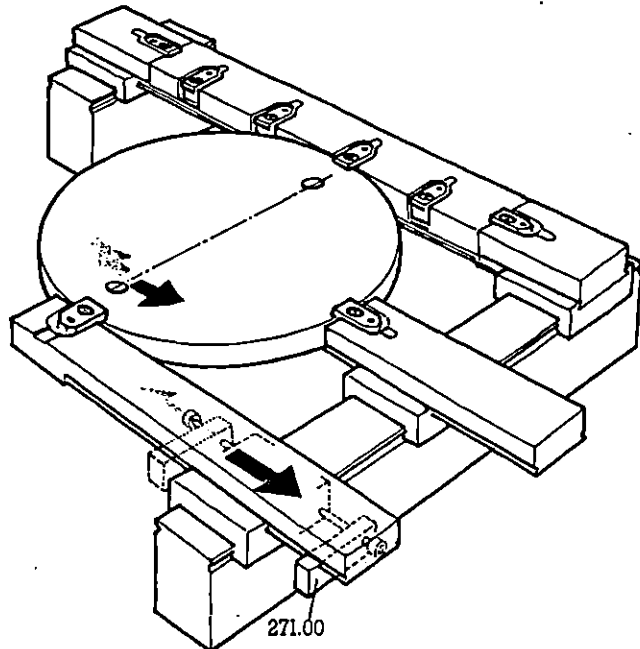
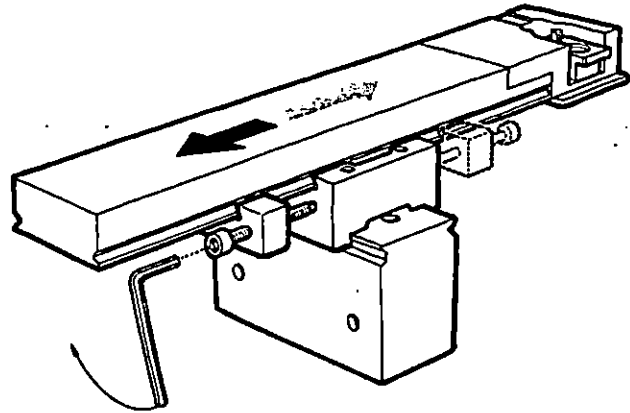
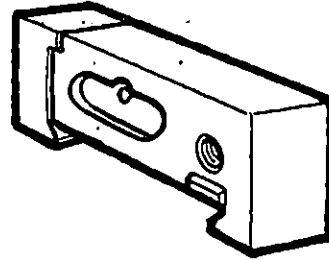
ICS 271.00
Schlittenanschlag
Slide stop
Butée pour glissière
Arresto per slitta

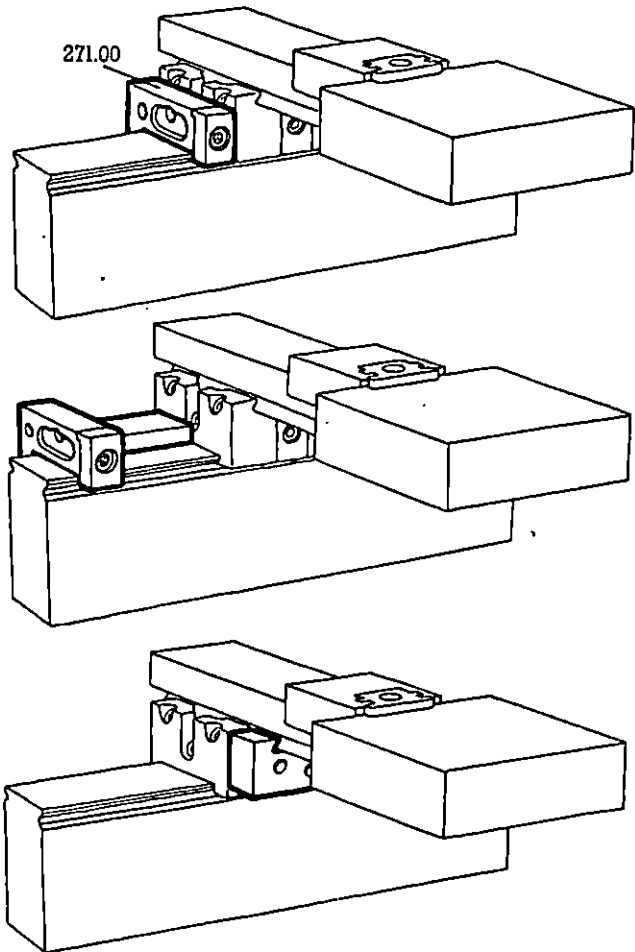
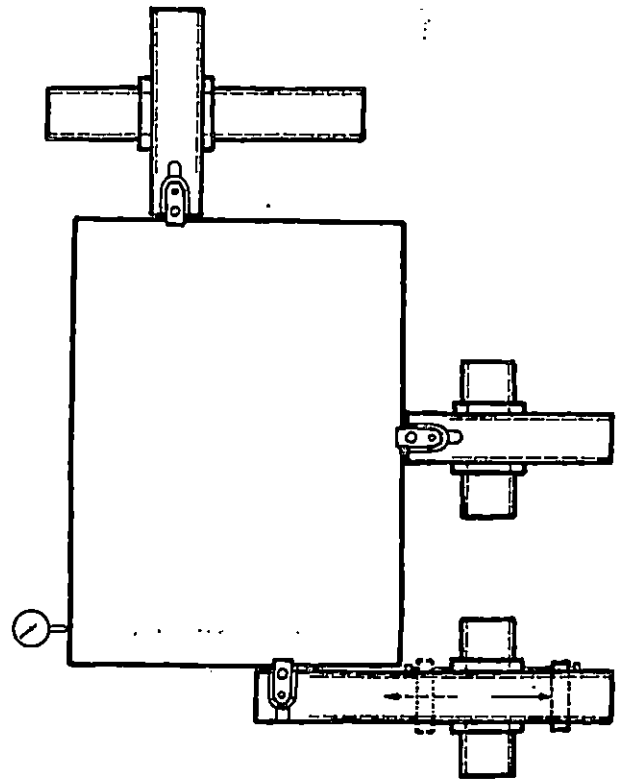
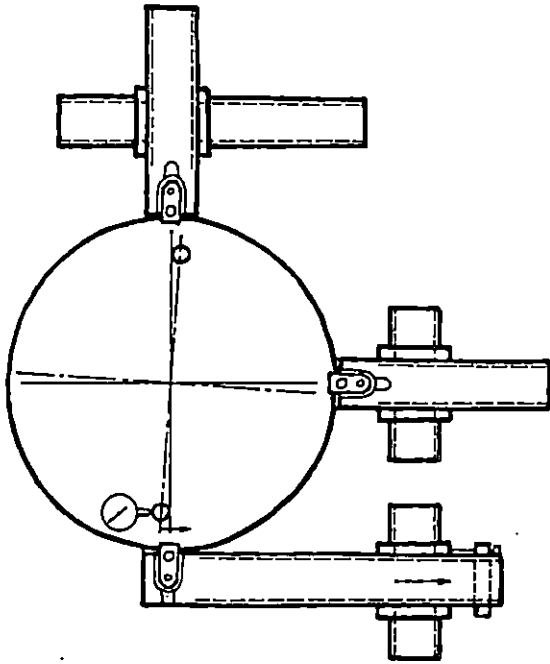
Ausrichten durch Verschieben des Schlittens.

Workpiece aligning through slide stop.

Alignement de la pièce avec la butée pour glissière.

Allineamento del pezzo tramite l'arresto per slitta.





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Mehr Komfort
More efficient
Plus pratique
Più funzionale

ASE

Tooling System of Büchler AG + Erowa AG

ICS

Mess- und Voreinstellplatz OMEGA
Measuring and presetting station OMEGA
Poste de pré - réglage OMEGA
Posto di preparazione OMEGA

OMEGA 1086

Bestehend aus:
 Composed of:
 Composé de:
 Composto da:

ICS 382.00
 Werkzeugschrank leer
 Tool cabinet empty
 Armoire d'outils vide
 Armadio per attrezzi vuoto

ICS 372.00
 Richtplatte 680x1200
 Precision slab 680x1200
 Marbre d'alignement 680x1200
 Piano di riscontro 680x1200

ICS 351.00
 Richtbalken K
 Set-up beam K
 Traverse de dégauchissage K
 Traversa di preparazione K

ICS 360.00
 Vertikalführung K
 Vertical guide K
 Guide vertical K
 Guida verticale K

ICS 361.00
 Kreuzführung K
 Cross guide K
 Guide en coordonnées K
 Guida ortogonale K

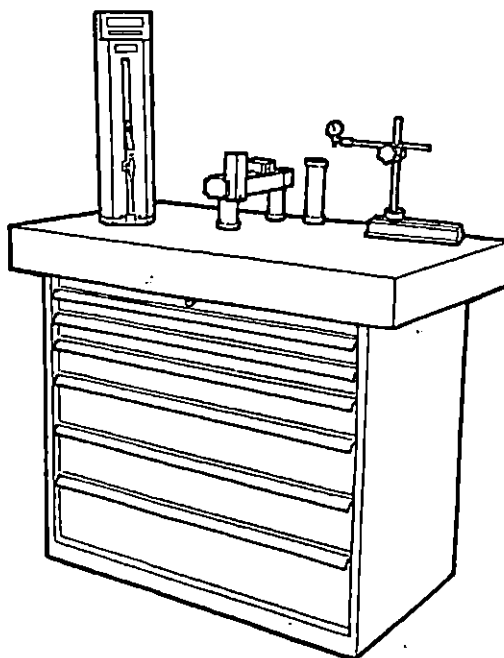
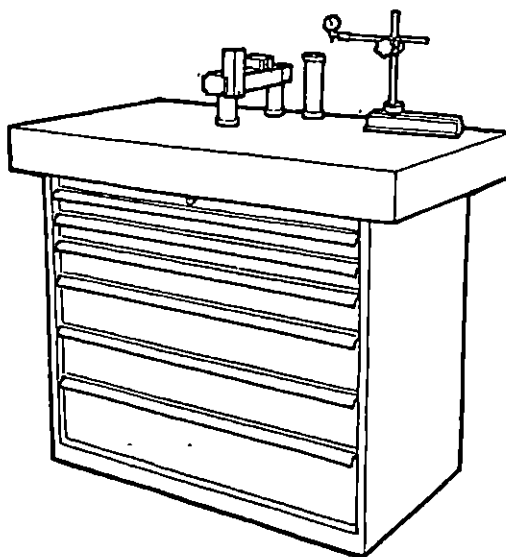
ICS 241.00
 Stützfuß 175 mm
 Support leg 175 mm
 Plot d'appui 175 mm
 Piedistallo di appoggio 175 mm

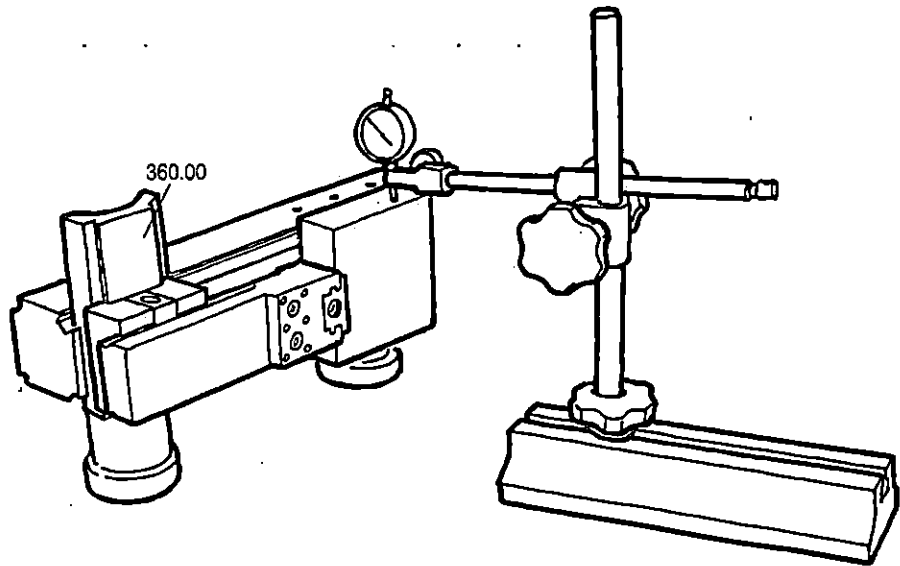
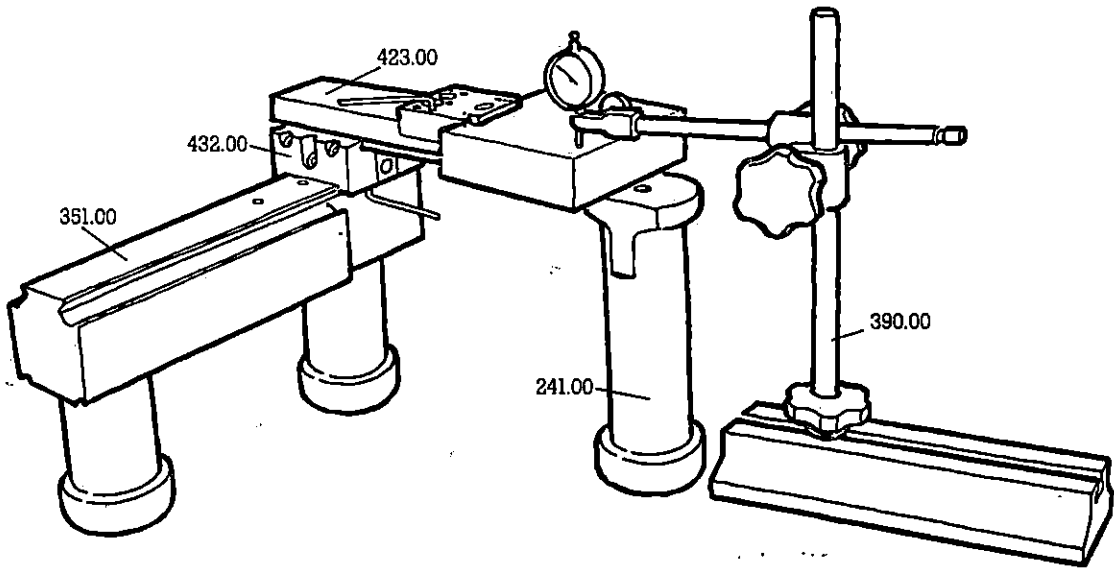
ICS 390.00
 Uhrenständer mit Messuhr
 Stand with dial gauge
 Colonne avec comparateur
 Colonna per misurazione digitale

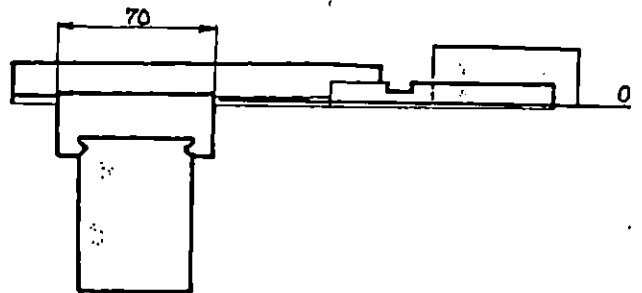
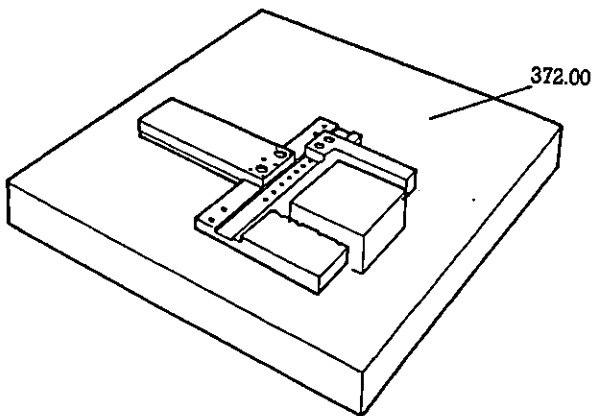
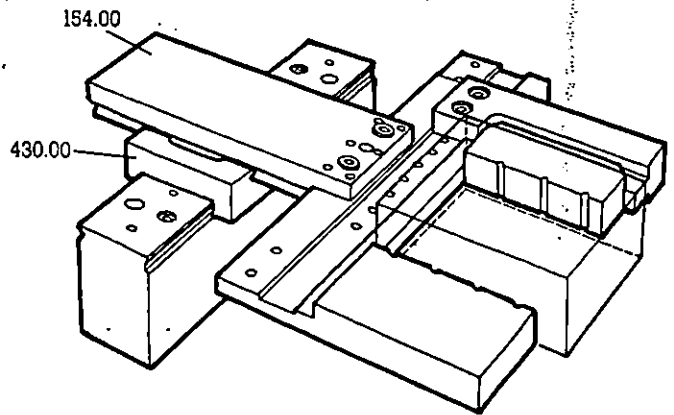
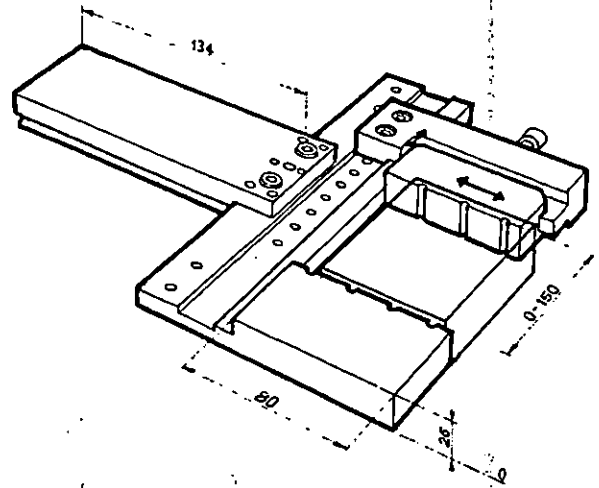
OMEGA 2086

Zusätzlich:
 Additional:
 Supplémentair:
 Supplementare:

ICS 391.00
 Vertikalmessgerät VM
 300/0,005 mm
 Vertical measuring device VM
 300/0,005 mm
 Appareil de mesure vertical VM
 300/0,005 mm
 Colonna per misurazione digitale VM
 300/0,005 mm







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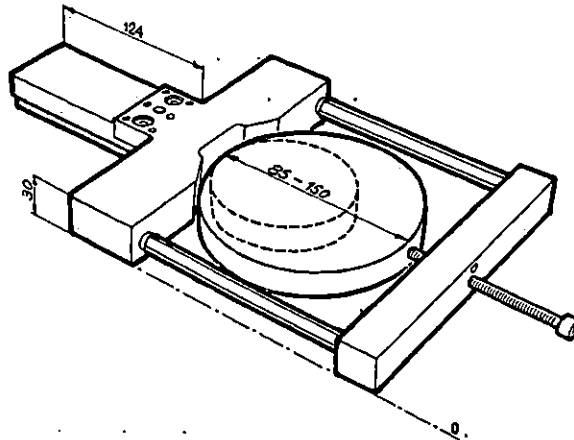
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Tooling System of Büchler AG + Erowa AG

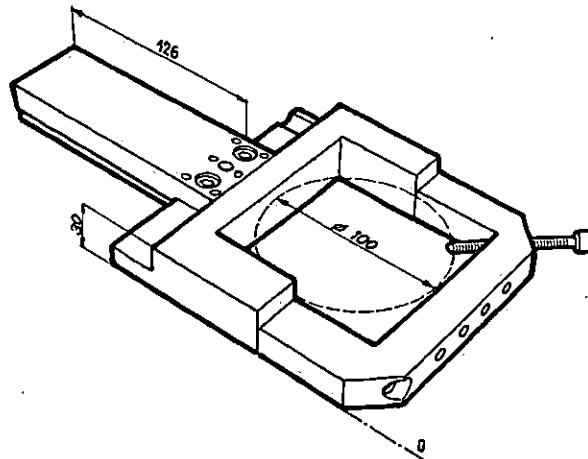
ICS

**Schlittenprisma
Slide V-bloc
Prisme sur glissière
Prisma su slitta**

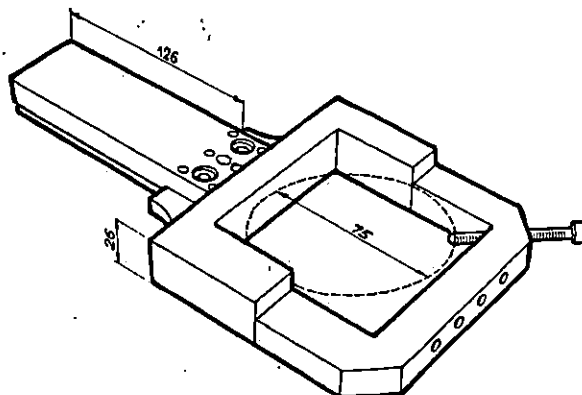
ICS 312.00
Schlittenprisma 30/150
Slide V-bloc 30/150
Prisme sur glissière 30/150
Prisma su slitta 30/150



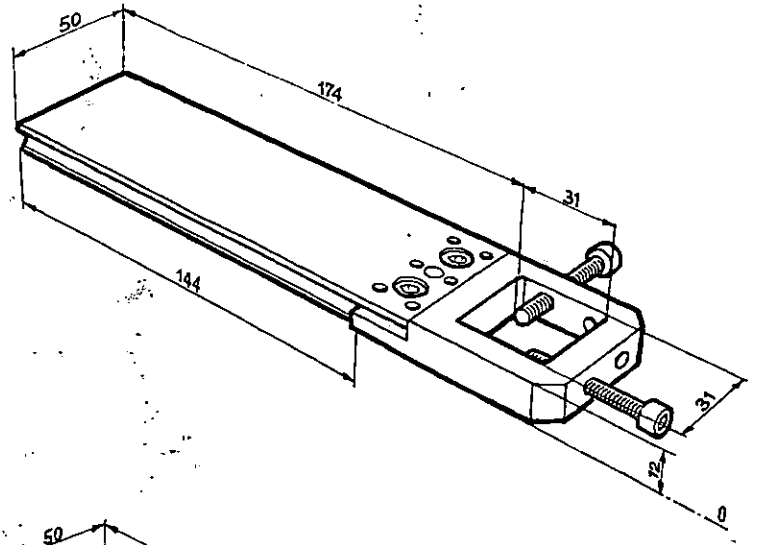
ICS 315.00
Schlittenprisma 30/100
Slide V-bloc 30/100
Prisme sur glissière 30/100
Prisma su slitta 30/100



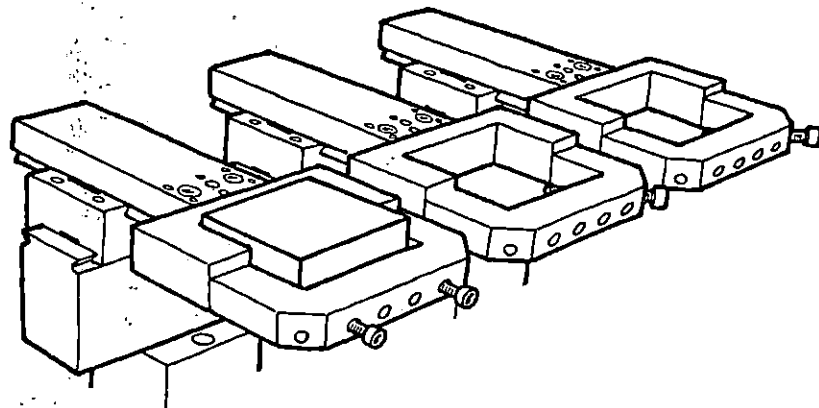
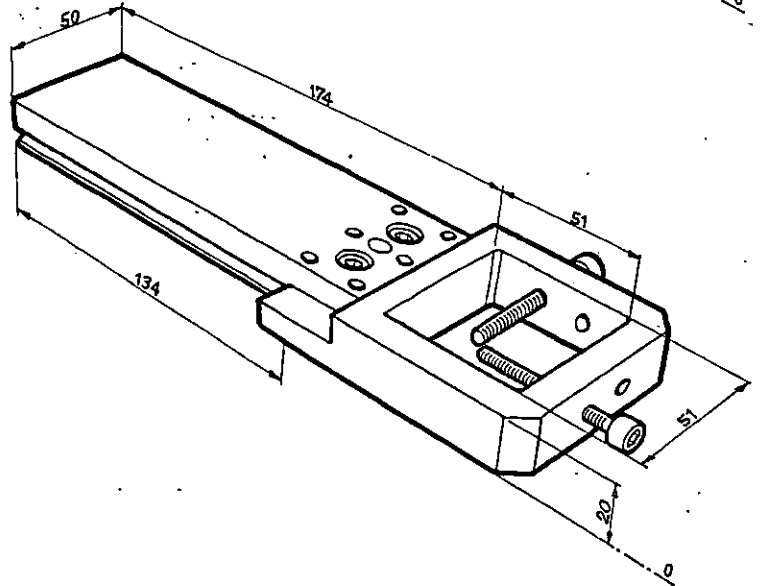
ICS 319.00
Schlittenprisma 26/75
Slide V-bloc 26/75
Prisme sur glissière 26/75
Prisma su slitta 26/75

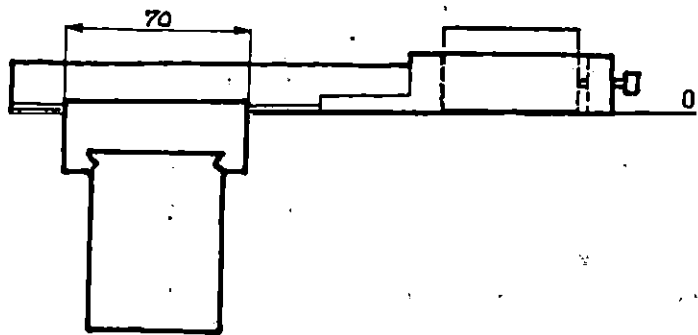
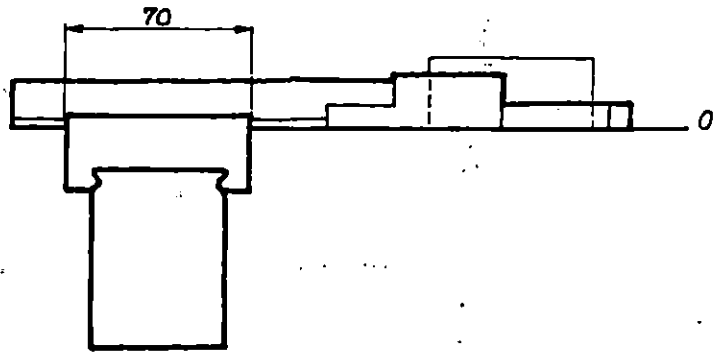


ICS 303.00
Schlittenprisma 12/30
Slide V-bloc 12/30
Prisme sur glissière 12/30
Prisma su slitta 12/30



ICS 304.00
Schlittenprisma 20/50
Slide V-bloc 20/50
Prisme sur glissière 20/50
Prisma su slitta 20/50



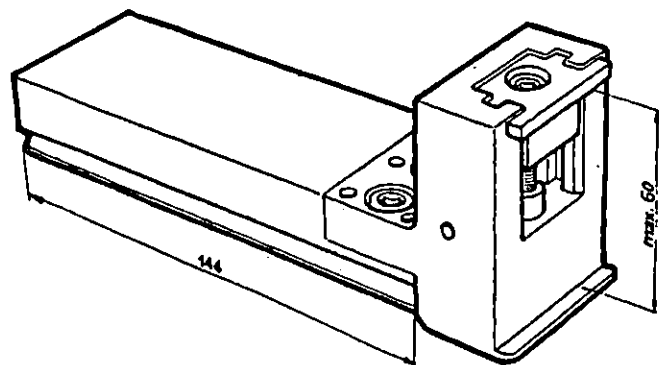
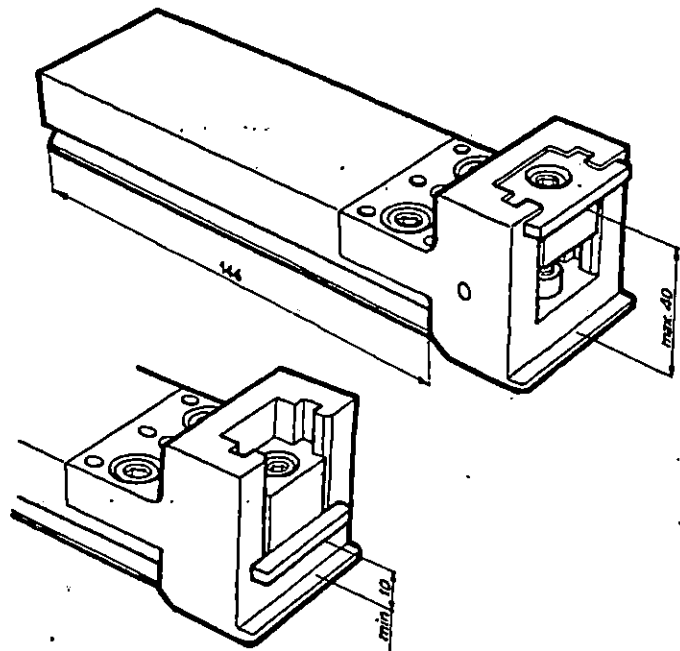


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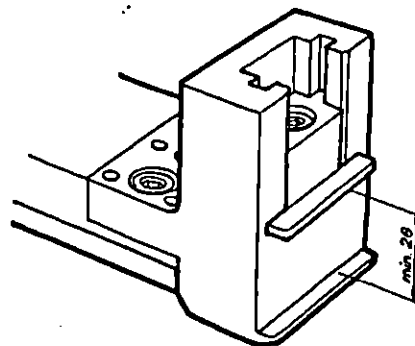
Integrated **ICS** Clamping System

Schlittenschraubstock

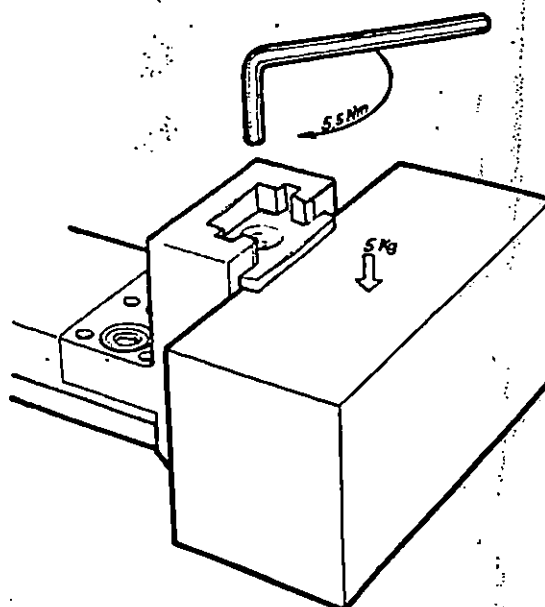
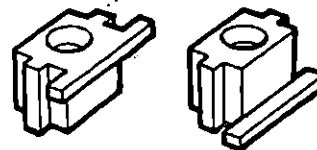
ICS 417.00
Schlittenschraubstock 40/50
Zum Spannen von 10 bis
40 mm hohen Kleinteilen



ICS 418.00
Schlittenschraubstock 60/50
Zum Spannen von 26 bis
60 mm hohen Kleinteilen



Bei allen Schraubstocktypen
kann die Klemmbacke je
nach Klemmdistanz auf die
eine oder andere Seite ein-
gelegt werden.



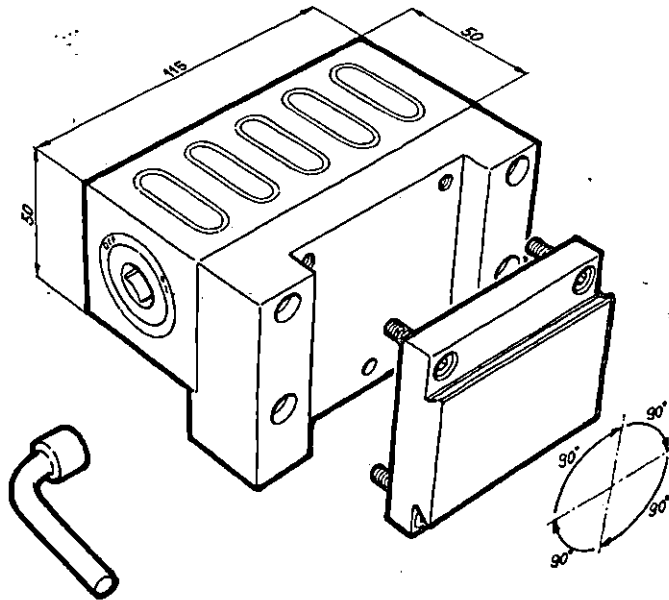
ASE

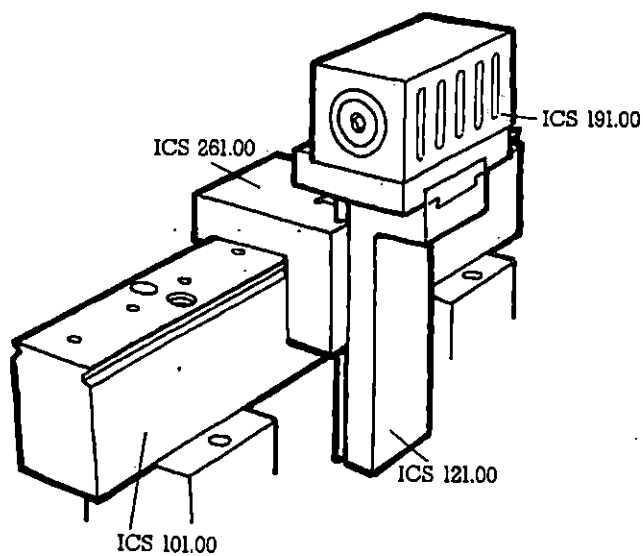
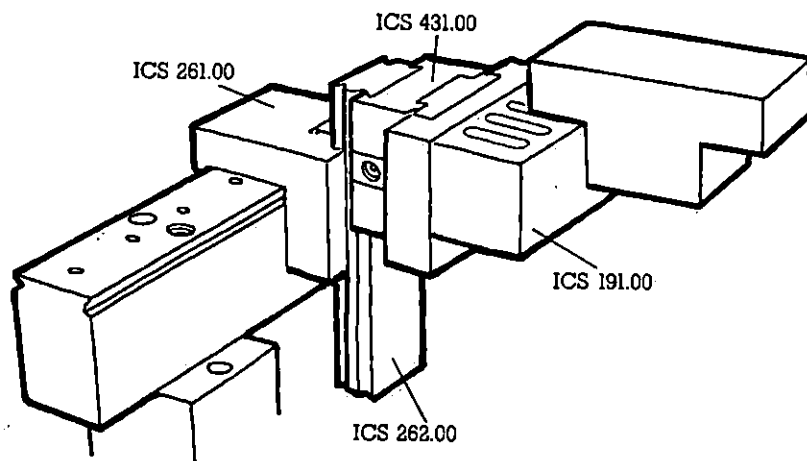
Tooling System of **Büchler AG + Erowa AG**

ICS

**Magnetflansch
Magnetic flange
Flasque magnétique
Flangia magnetica**

**ICS 191.00
Magnetflansch 50 H
Magnetic flange 50 H
Flasque magnétique 50 H
Flangia magnetica 50 H**





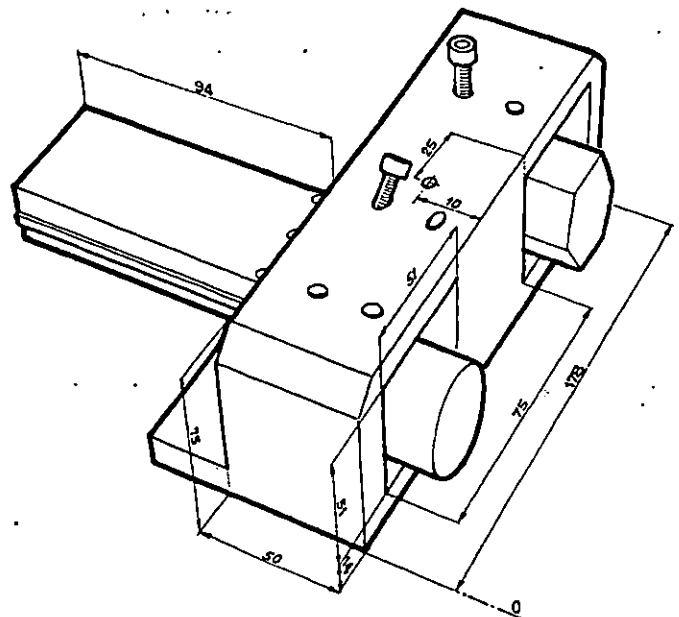
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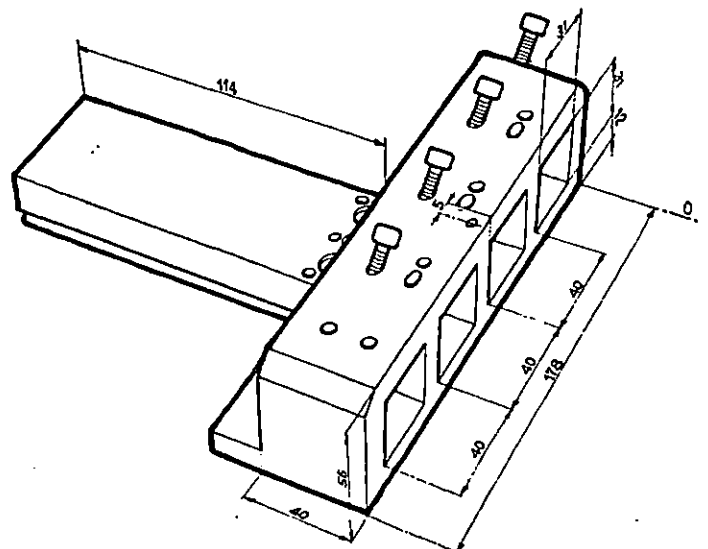
ICS

Schlittenprisma H horizontal
Slide V-bloc H horizontal
Prisme sur glissière H horizontale
Prisma su slitta H orizzontale

ICS 318.00
2fach Schlittenprisma H 50
2-fold Slide V-bloc H 50
Prisme double sur glissière H 50
Prisma doppio su slitta H 50



ICS 314.00
4fach Schlittenprisma H 30
4-fold Slide V-bloc H 30
Prisme quadruple sur glissière H 30
Prisma quadruplo su slitta H 30



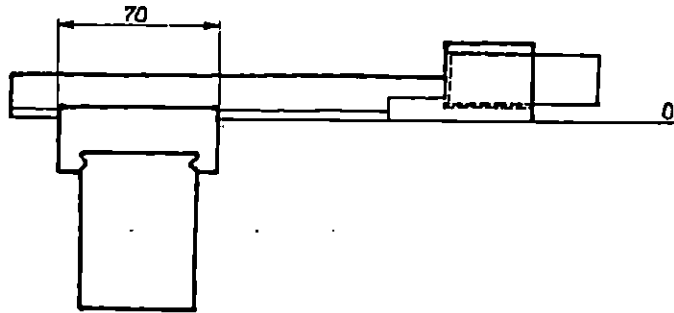
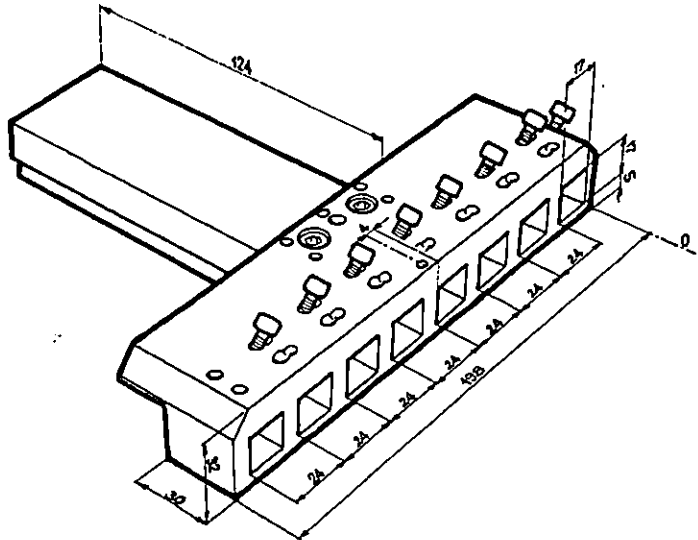
ICS 306.00

8fach Schlittenprisma H 15

8-fold Slide V-bloc H 15

Prisme octuple sur glissière H 15

Prisma ottuplo su slitta H 15



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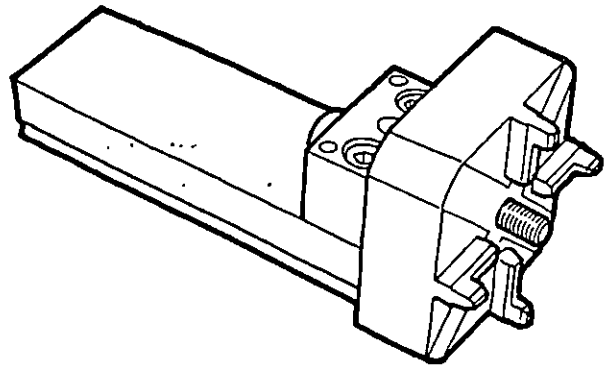
Verbalg:

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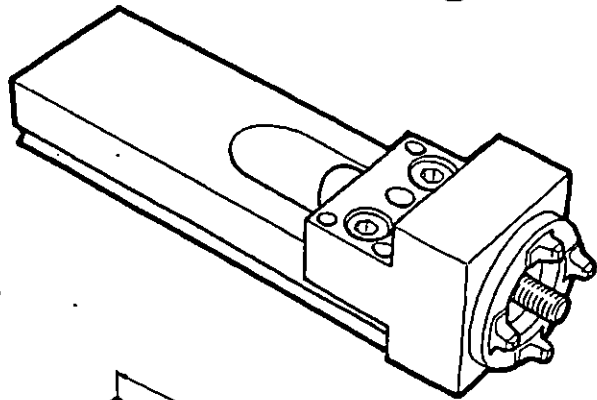
ICS
Integrated Clamping System

Schlittenadapter

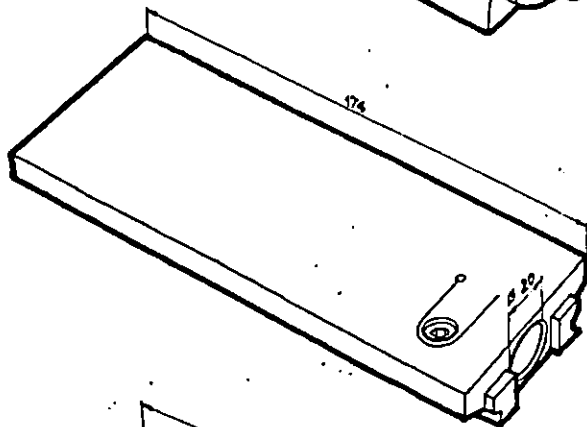
ICS 442.00
Schlittenadapter ITS 100
4 Werkstückpositionen
um 90° gedreht



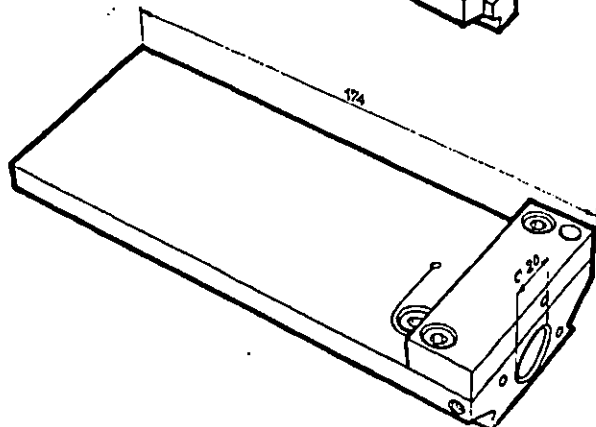
ICS 441.00
Schlittenadapter ITS 50
4 Aufnahmepositionen
um 90° gedreht



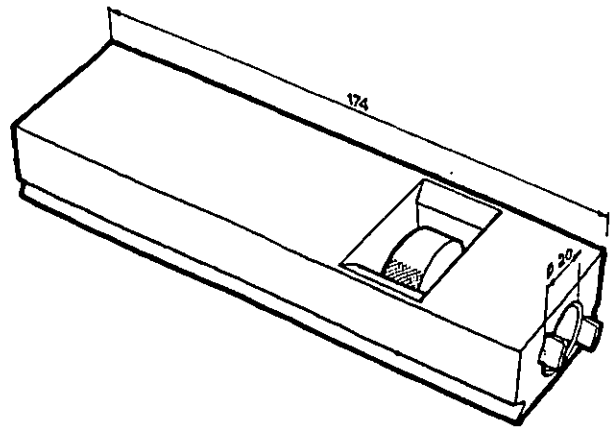
ICS 133.00
Schlittenadapter IMEA
Ø 20
2 Werkstückpositionen
um 180° gedreht



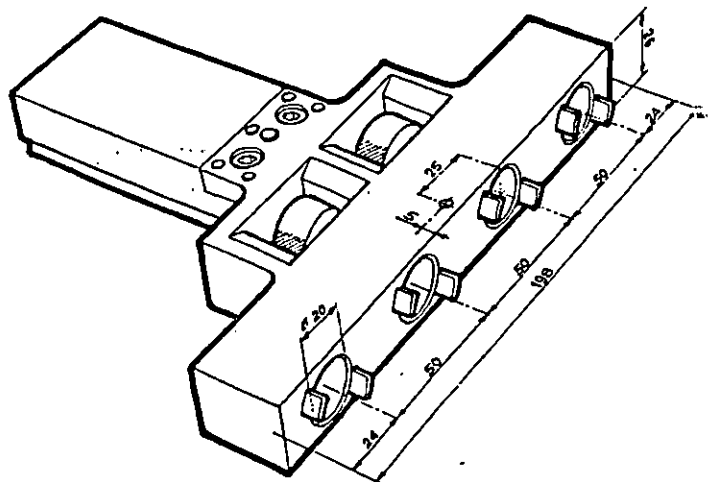
ICS 134.00
Schlittenadapter 3R
Ø 20 mm 4fach
3 Positionen um 90° gedreht



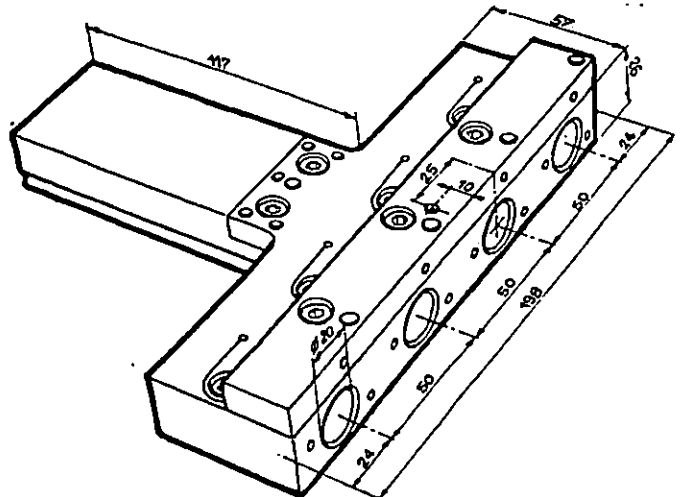
ICS 136.00
Schlittenadapter C20
 2 Aufnahmepositionen
 um 180° gedreht



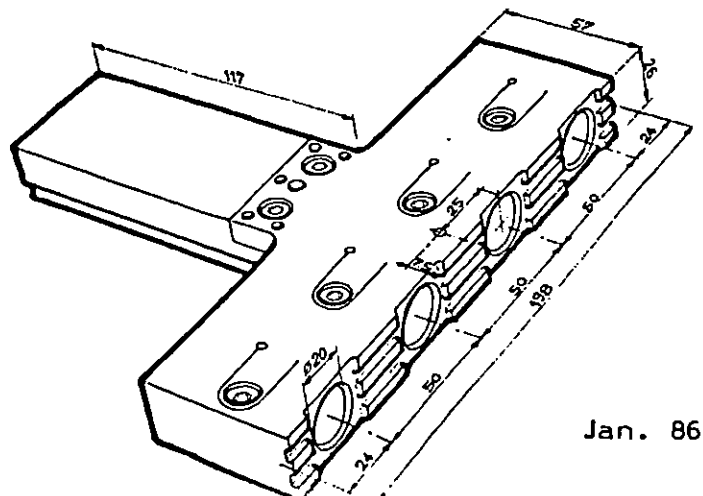
ICS 137.00
Schlittenadapter C20 4fach
 2 Werkstückpositionen
 um 180° gedreht



ICS 132.00
Schlittenadapter 3R
 Ø20 mm
 3 Positionen um 90° gedreht



ICS 135.00
Schlittenadapter IMEA
 Ø 4fach
 2 Werkstückpositionen
 um 180° gedreht



ASE

Tooling System of Büchler AG + Erowa AG

ICS

Schlittenflansch
Slide flange
Barre latérale sur glissière
Slitta con flangia

ICS 151.00**Schlittenflansch 26**

Zum seitlichen Anschrauben oder Anbriden von Werkstücken

Slide flange 26

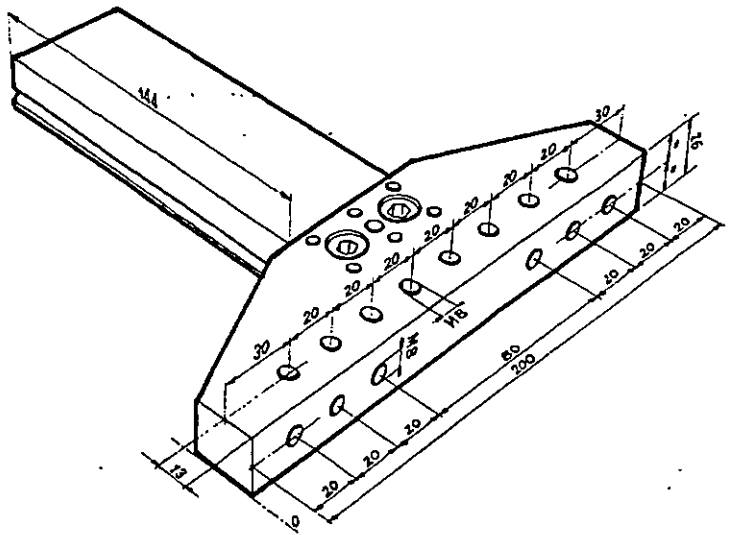
For lateral clamping

Barre latérale sur glissière 26

Pour fixation ou bridage latéral

Slitta con flangia 26

Per fissare il pezzo lateralmente

**ICS 161.00****Schlittenflansch 50**

Zum seitlichen Anschrauben oder Anbriden von Werkstücken

Slide flange 50

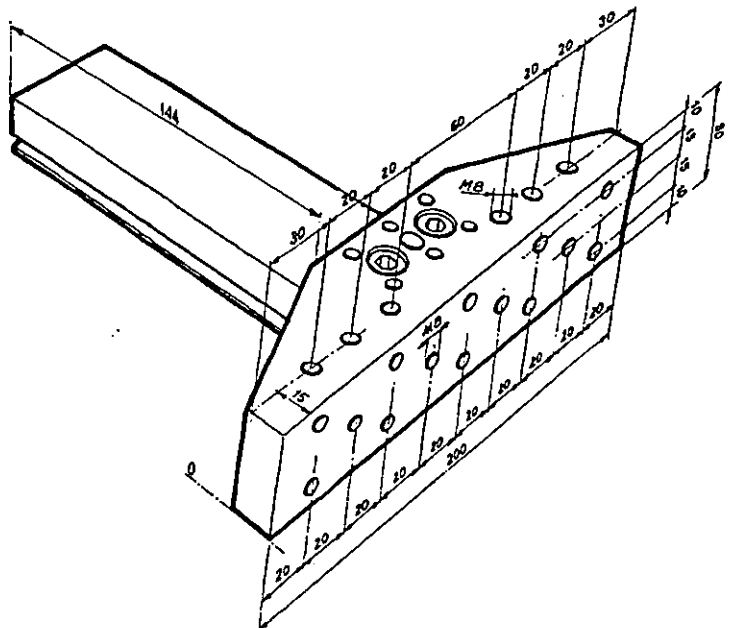
For lateral clamping

Barre latérale sur glissière 50

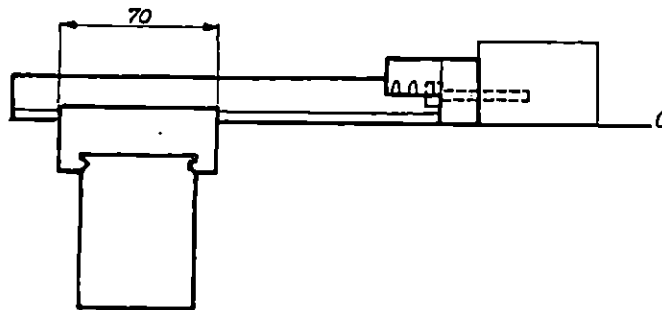
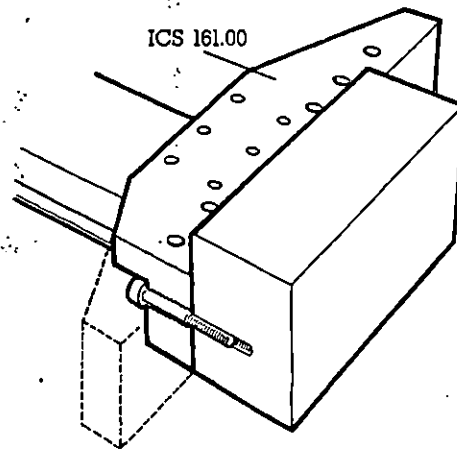
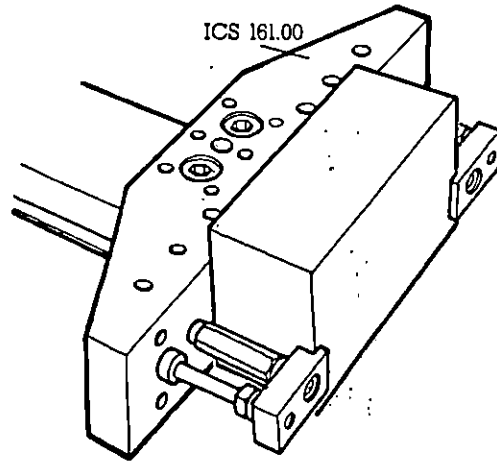
Pour fixation ou bridage latéral

Slitta con flangia 50

Per fissare il pezzo lateralmente



Verschiedene Spannmöglichkeiten
Various clamping possibilities
Différentes possibilités de bridage
Diverse possibilità di serraggio



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12/004 04.86 Änderungen vorbehalten

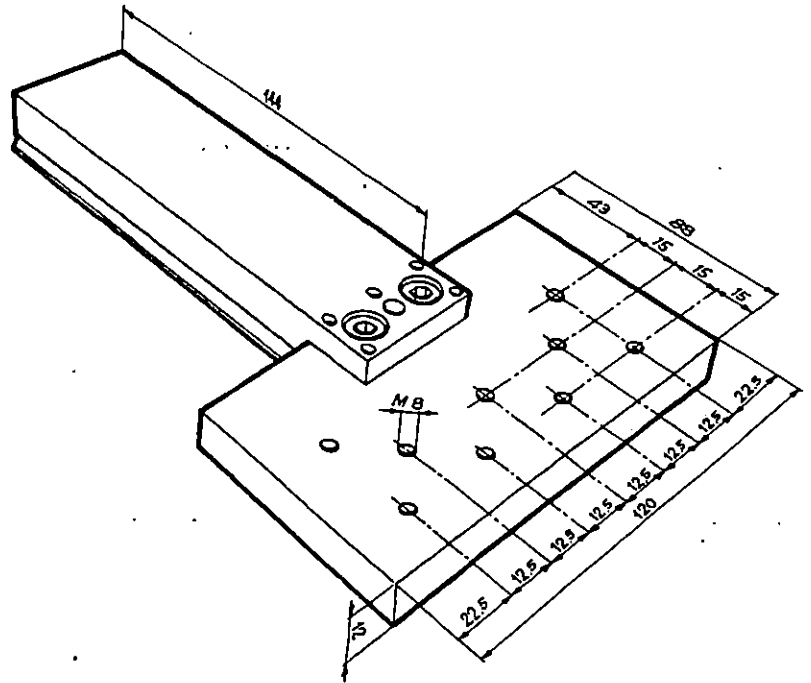
Printed in Switzerland

A S E

Tooling System of Bühler AG + Erowa AG

ICS

Schlittenauflage
 Slide support
 Flasque support glissière
 Slitta con piano di appoggio

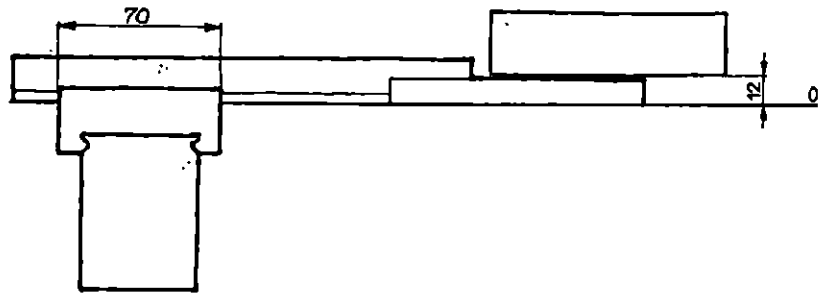


ICS 141.00
Schlittenauflage
 zum Aufbriden von mittelgrossen
 Teilen

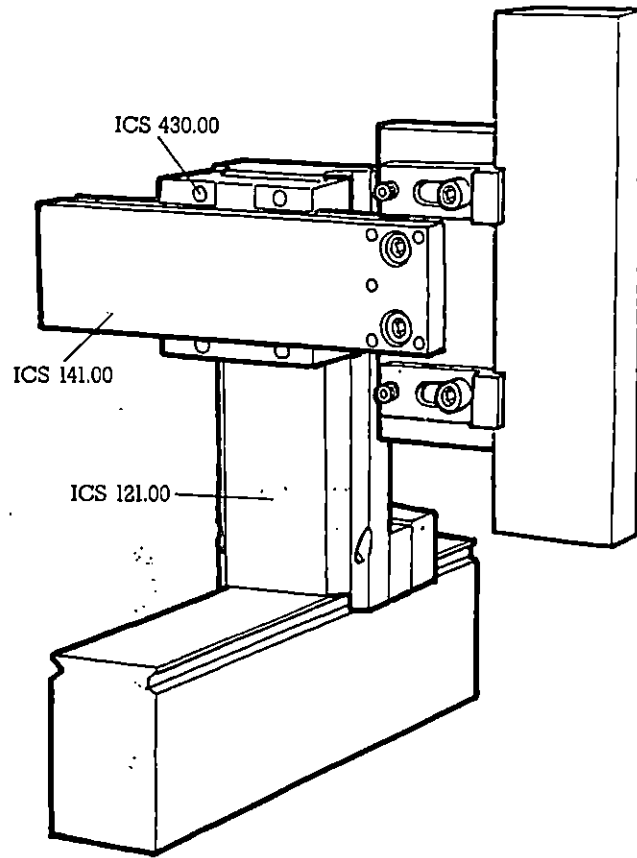
Slide support
 for clamping mid-size
 work pieces

Flasque support glissière
 pour brider des pièces de
 moyennes dimensions

Slitta con piano di appoggio
 per serrare con staffe pezzi di
 medie dimensioni



Vertikale Aufspannmöglichkeit
Vertical clamping possibility
Possibilité de bridage vertical
Esempio di serraggio verticale

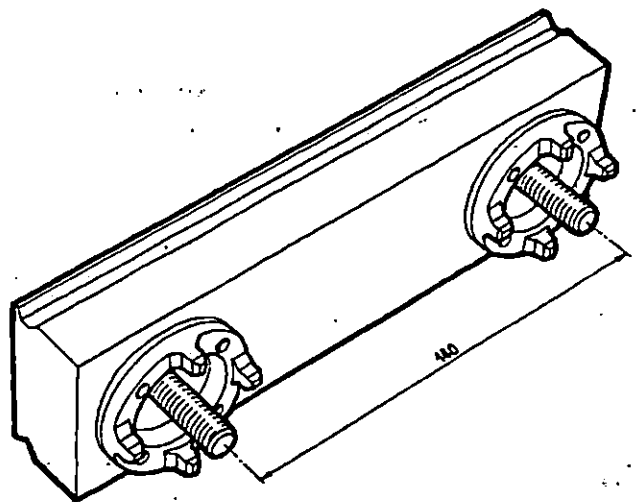


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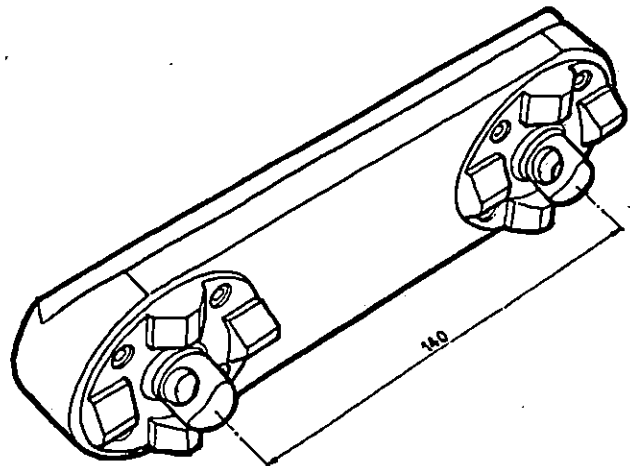
ICS
Integrated Clamping System

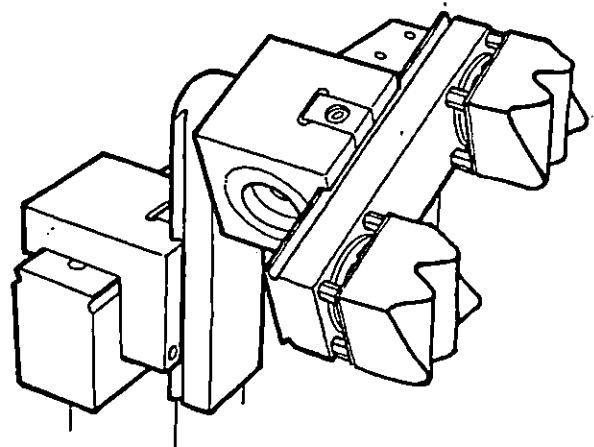
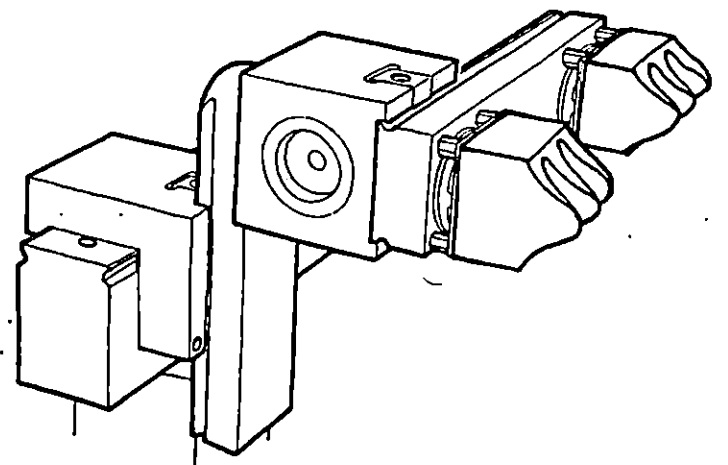
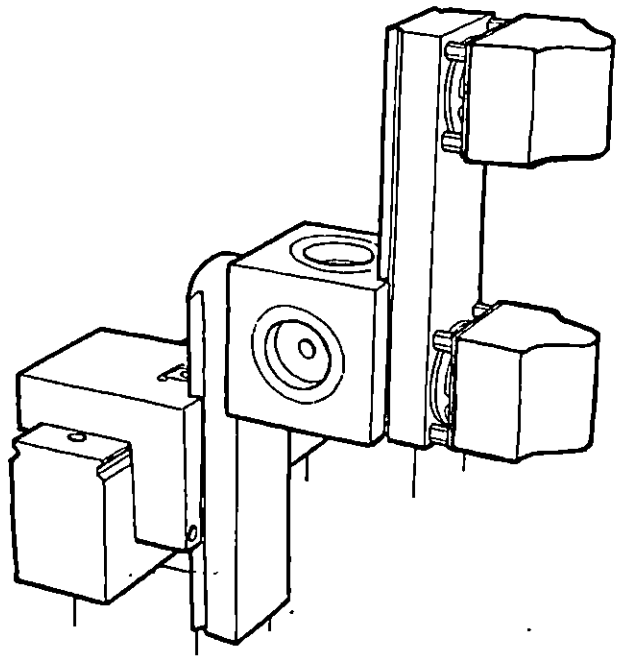
Schlittenflansch

ICS 203.00
Schlittenflansch Tandem
ITS 50



ICS 202.00
Schlittenflansch Tandem
IMEA





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Applied Systems Engineering

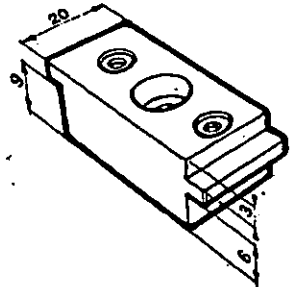
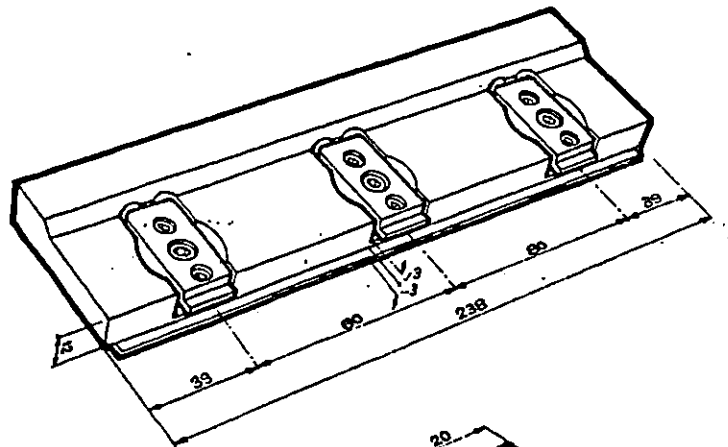
ICS
Integrated Clamping System

Leistenspanner

ICS 416.00

Spannerleiste 12/238

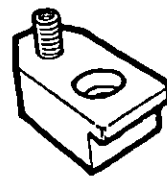
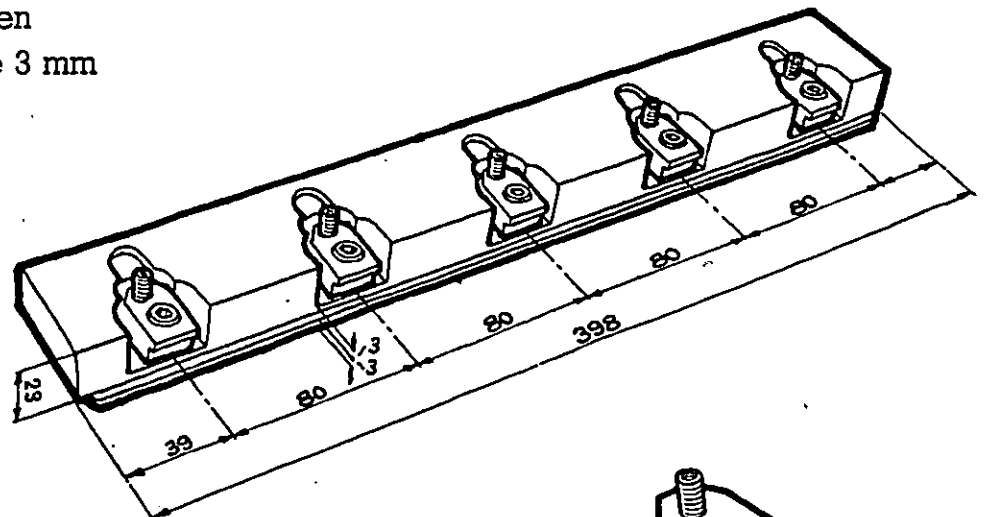
Elementhöhe im Spann-
bereich 12 mm mit 3 Spann-
briden,
min. Spanndicke 0 mm

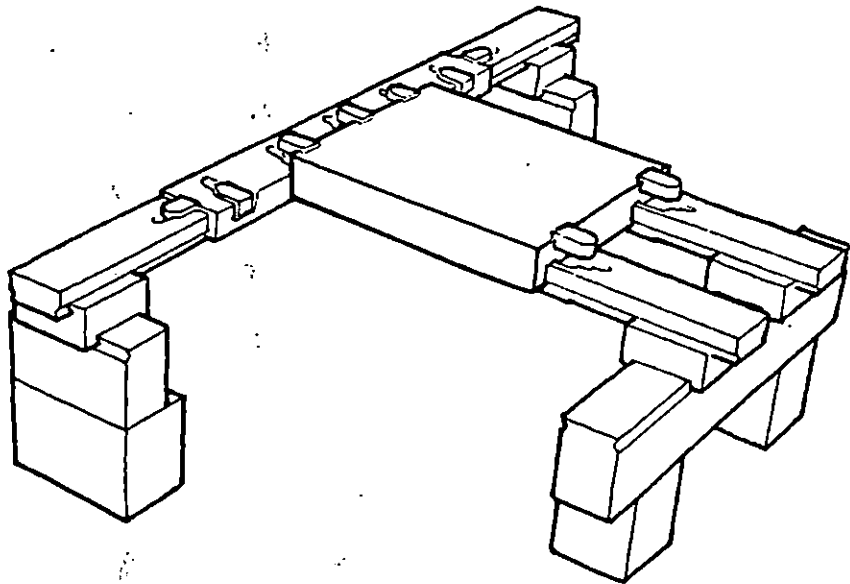
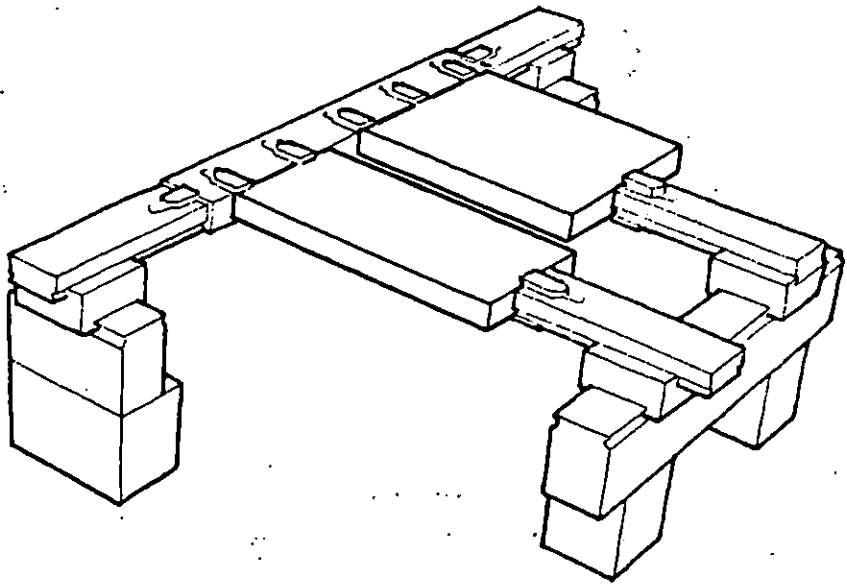


ICS 412.00

Spannerleiste 23/398

mit 5 Spannbriden
min. Spanndicke 3 mm





ASE

Tooling System of **Büchler AG + Erowa AG**

ICS

Schlittenrohling 26
Blank slide 26
Glissière 26 ébauche
Slitta 26 sbozzata

ICS 411.00

Schlittenrohling 26

Für Sonderaufspannungen lässt sich der Messingkörper leicht bearbeiten.

Blank slide 26

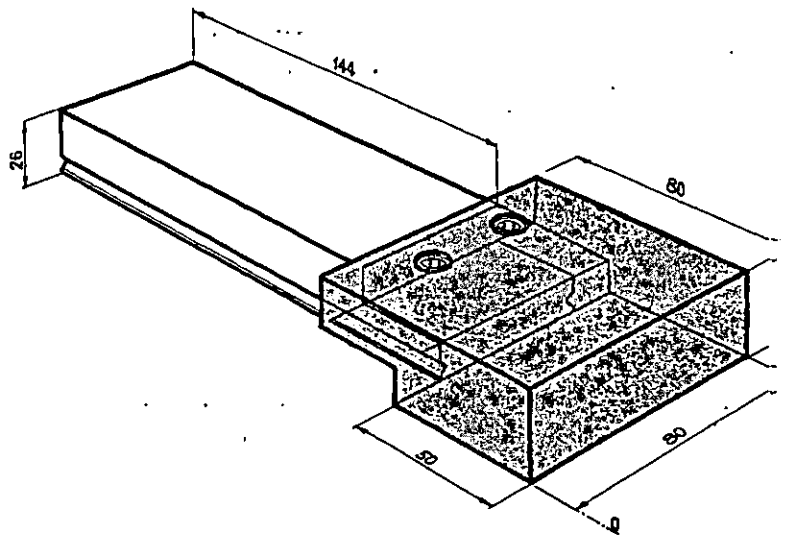
The brass cube can easily be formed for special clampings.

Glissière 26 ébauche

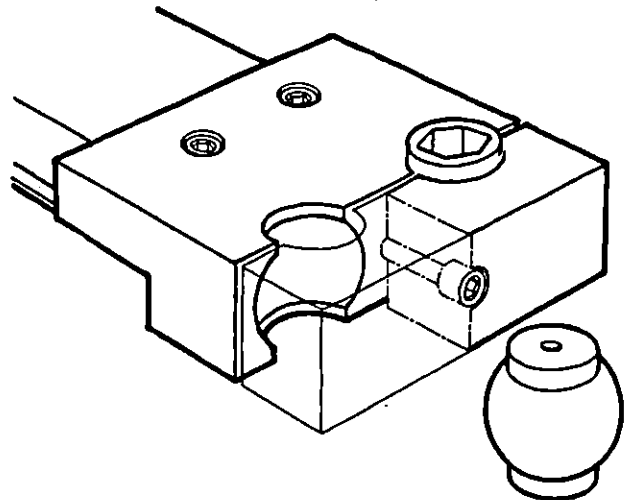
Pour des bridages spéciaux, le corps en laiton peut être usiné facilement.

Slitta 26 sbozzata

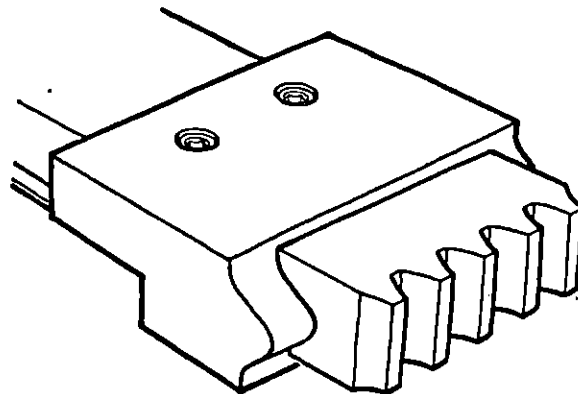
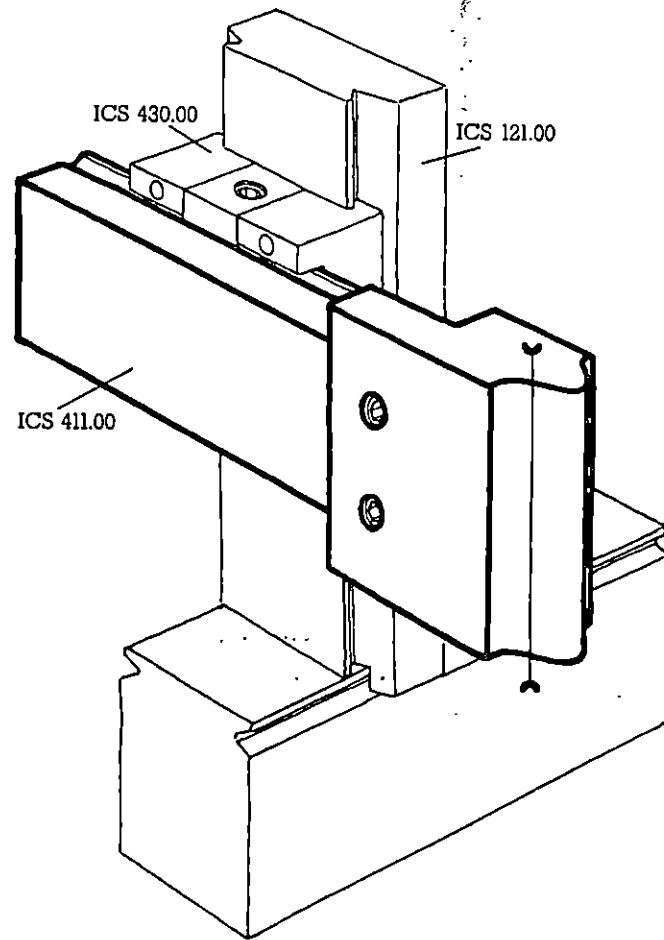
Per serraggi speciali la parte anteriore in ottone si lascia lavorare facilmente.



Beispiel für Produktionsteile
Examples for production parts
Exemple pièce de production
Esempio pezzi di produzione



Vertikale Aufspannung
Vertical mounting
Bridage vertical
Fissaggio verticale



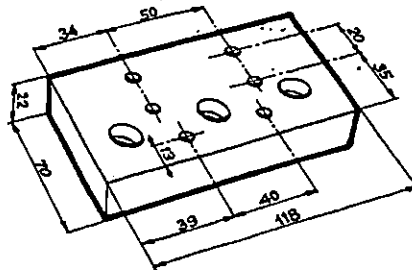
ASE

Tooling System of **Büchler AG + Erowa AG**

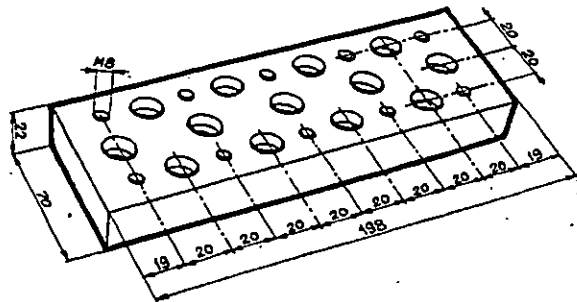
ICS

Anflage
Support plate
Plan d'appui
Piano di appoggio

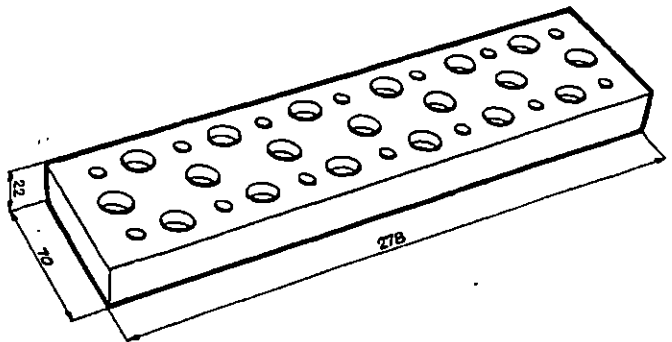
ICS 254.00
Anflage 70×118
Support plate 70×118
Plan d'appui 70×118
Piano di appoggio 70×118



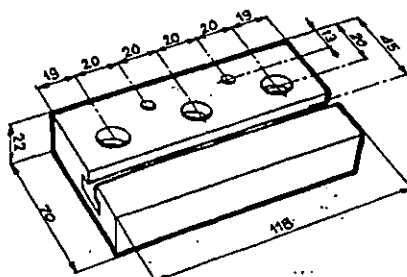
ICS 255.00
Anflage 70×198
Support plate 70×198
Plan d'appui 70×198
Piano di appoggio 70×198



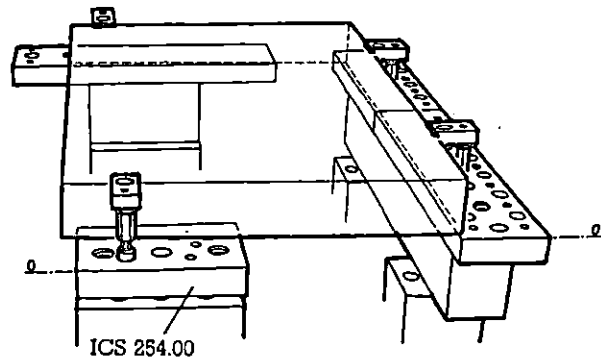
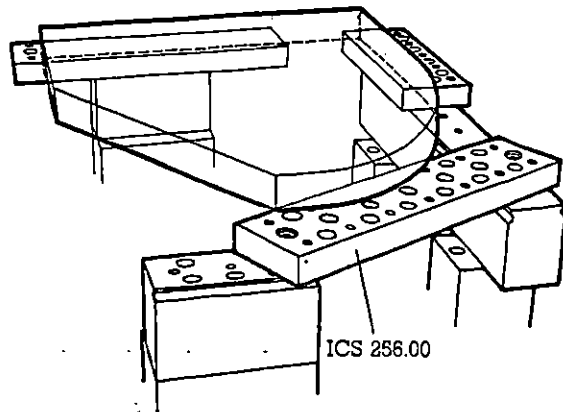
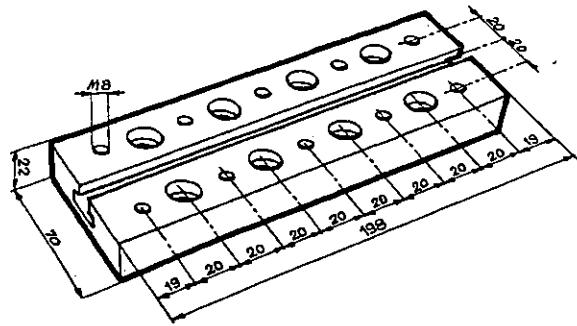
ICS 256.00
Anflage 70×278
Support plate 70×278
Plan d'appui 70×278
Piano di appoggio 70×278



ICS 257.00
Anflage 70×118 mit T-Nut 10 mm
Support plate 70×118 with
T-Slot 10 mm
Plan d'appui 70×118 avec rainure
en T 10 mm
Piano di appoggio 70×118 con
scanalatura a T 10 mm



IPS 1258.00
Auflage 70×198 mit T-Nut 10 mm
Support plate 70×198 with
T-Slot 10 mm
Plan d'appui 70×198 avec rainure
en T 10 mm
Piano di appoggio 70×198 con
scanalatura a T 10 mm



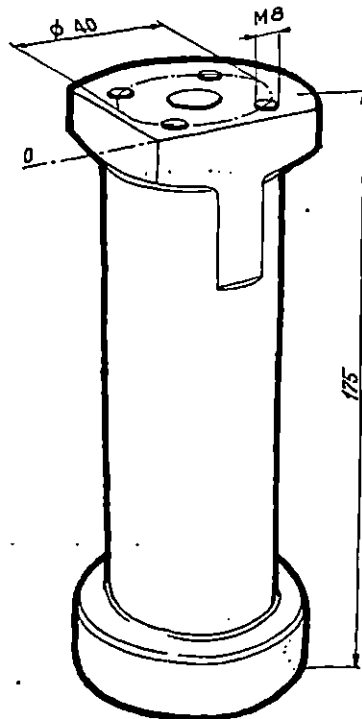
ASE

Tooling System of Büchler AG + Erowa AG

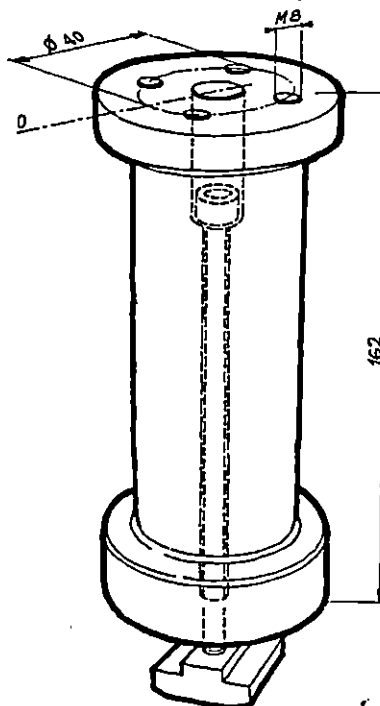
ICS

Stützfuss
Support leg
Support d'appui
Piedistallo di appoggio

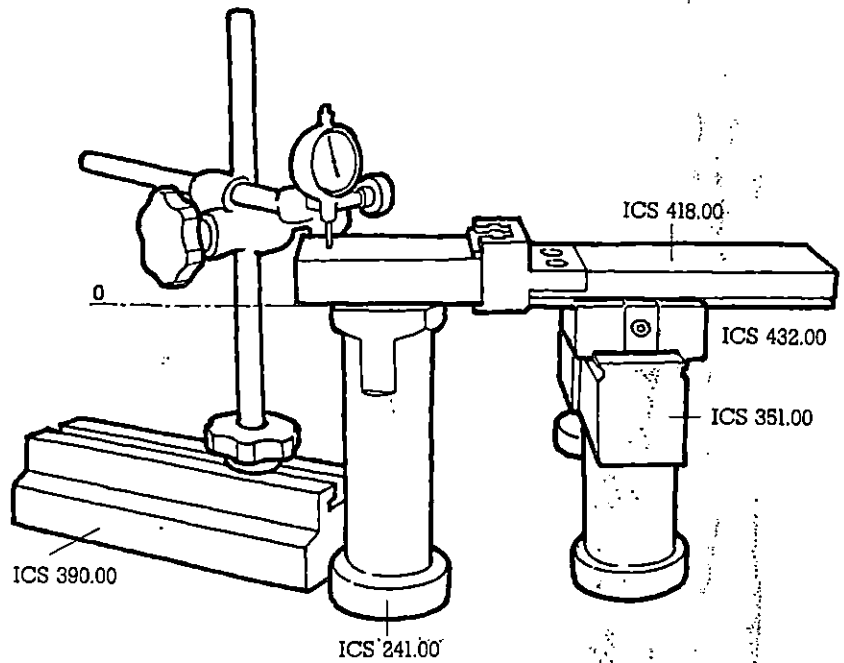
ICS 241.00
Stützfuss 175 mm
Support leg 175 mm
Support d'appui 175 mm
Piedistallo di appoggio 175 mm



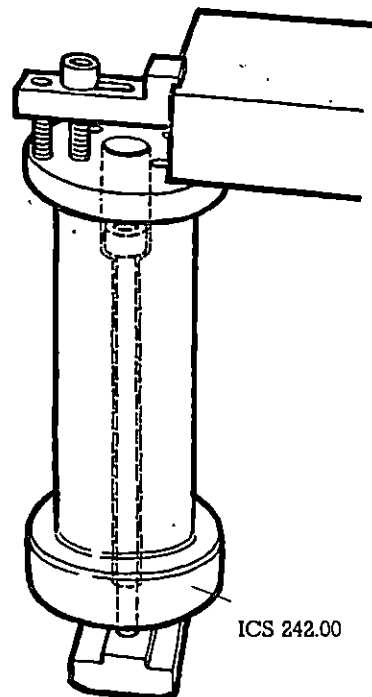
ICS 242.00
Stützfuss 162 mm
Support leg 162 mm
Support d'appui 162 mm
Piedistallo di appoggio 162 mm



Voreinstellen mit Stützfuß
Preset with support leg
Pré régler avec support d'appui
Preregolare con il piedistallo di appoggio



Tischbefestigung
Fastening on the machine table
Fixation sur table
Fissaggio sul tavolo



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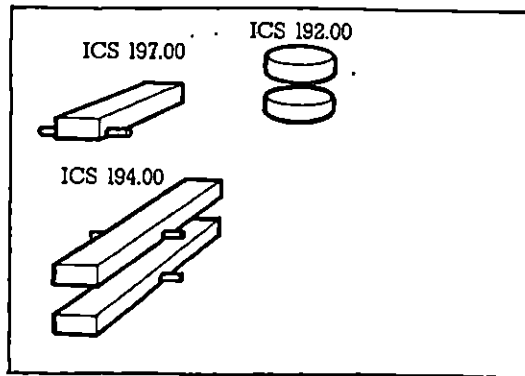
ASE

Tooling System of Büchler AG + Erowa AG

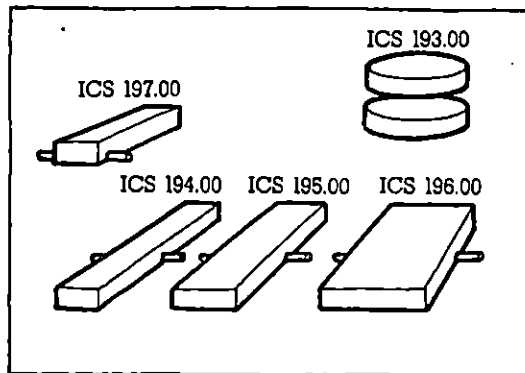
ICS

Magnet Set
Magnet Set
Jeu d'aimants
Set di magneti

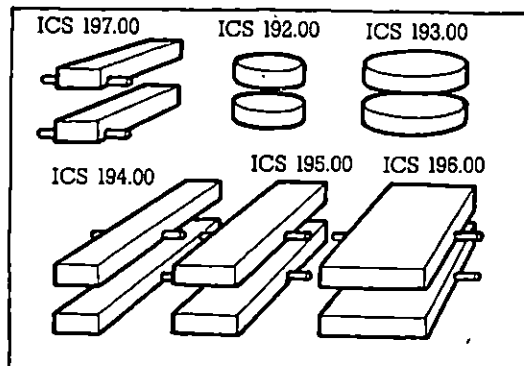
M.ICS 680
ASE-Magnet Set klein
ASE-Magnet Set small
Petit jeu d'aimants ASE
Set di magneti ASE
 1×ICS 197.00
 2×ICS 192.00
 2×ICS 194.00



M.ICS 685
ASE-Magnet Set gross
ASE-Magnet Set large
Grand jeu d'aimants ASE
Set di magneti grande ASE
 1×ICS 197.00
 2×ICS 193.00
 1×ICS 194.00
 1×ICS 195.00
 1×ICS 196.00



M.ICS 690
ASE-Magnet Set Total
ASE-Magnet Set complete
Jeu d'aimants ASE total
Set di magneti ASE totale
 2×ICS 197.00
 2×ICS 192.00
 2×ICS 193.00
 2×ICS 194.00
 2×ICS 195.00
 2×ICS 196.00



ICS 192.00

Magnet-Pille mittel $\varnothing 20 \times 8$ mm

Haltekraft 45 N

Zur Sicherung von Ausfallteilen

Magnet medium $\varnothing 20 \times 8$ mm

Holding force 45 N

For securing of heavy cut-out parts

Aimant moyen $\varnothing 20 \times 8$ mm

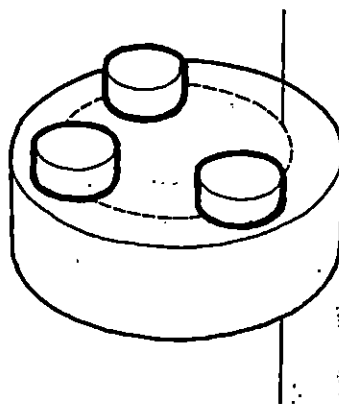
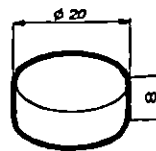
Force d'adhésion 45 N

Pour adhérer les pièces découpées

Magnete medio $\varnothing 20 \times 8$ mm

Forza d'adesione 45 N

Per assicurare i pezzi tagliati



ICS 193.00

Magnet-Pille stark $\varnothing 28 \times 8$ mm

Haltekraft 230 N

Zur Sicherung von schweren
Ausfallteilen

Magnet strong $\varnothing 28 \times 8$ mm

Holding force 230 N

For securing of heavy cut-out parts

Aimant fort $\varnothing 28 \times 8$ mm

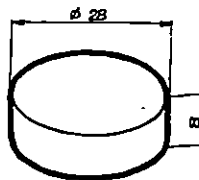
Force d'adhésion 230 N

Pour adhérer les pièces lourdes dé-
coupées

Magnete forte $\varnothing 28 \times 8$ mm

Forza d'adesione 230 N

Per assicurare i pezzi tagliati



ICS 194.00

Magnet-Brücke mittel mit

Positionierstift $12 \times 55 \times 8$ mm

Haltekraft 90 N

Magnet Bridge medium

with Positioning Pin $12 \times 55 \times 8$ mm

Holding force 90 N

Pont magnétique moyen avec

goupille de positionnement

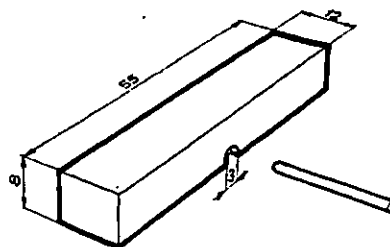
$12 \times 55 \times 8$ mm

Force d'adhésion 90 N

Ponte magnetico medio con spina

$12 \times 55 \times 8$ mm

Forza d'adesione 90 N



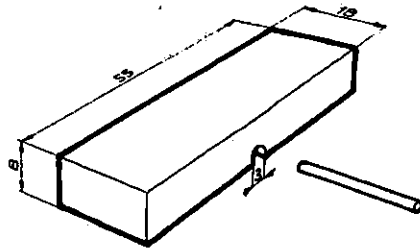
ICS 195.00

**Magnet-Brücke stark mit
Positionierstift 18×55×8 mm**
Haltekraft 280 N

**Magnet Bridge strong
with Positioning Pin 18×55×8 mm**
Holding force 280 N

**Pont magnétique fort avec
goupille de positionnement
18×55×8 mm**
Force d'adhésion 280 N

**Ponte magnetico forte con spina
18×55×8 mm**
Forza d'adesione 280 N



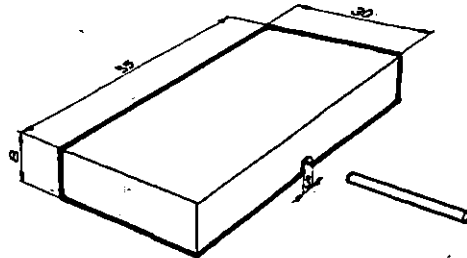
ICS 196.00

**Magnet-Brücke superstark mit
Positionierstift 30×55×8 mm**
Haltekraft 580 N

**Magnet Bridge extra strong
with Positioning Pin 30×55×8 mm**
Holding force 580 N

**Pont magnétique extra fort avec
goupille de positionnement
30×55×8 mm**
Force d'adhésion 580 N

**Ponte magnetico extra forte con
spina 30×55×8 mm**
Forza d'adesione 580 N



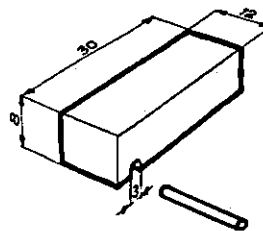
ICS 197.00

**Richtmagnet mit Positionierstift
12×30×8 mm**
Haltekraft 45 N.
Zum Vertikalausrichten
der Drahtelektroden

**Adjusting magnet with
Positioning Pin 12×30×8 mm**
Holding force 45 N
For the vertical set-up of the
wire-electrode

**Aimant de réglage avec goupille
de positionnement 12×30×8 mm**
Force d'adhésion 45 N
Pour le réglage vertical du fil

**Magnete di regolazione con
spina 12×30×8 mm**
Forza d'adesione 45 N
Per l'allineamento verticale del filo



Magnetbrücken

- Zur Teilesicherung bei Trennschnitten
- Für die Verbesserung der Anschnittbedingungen

Magnet Bridges

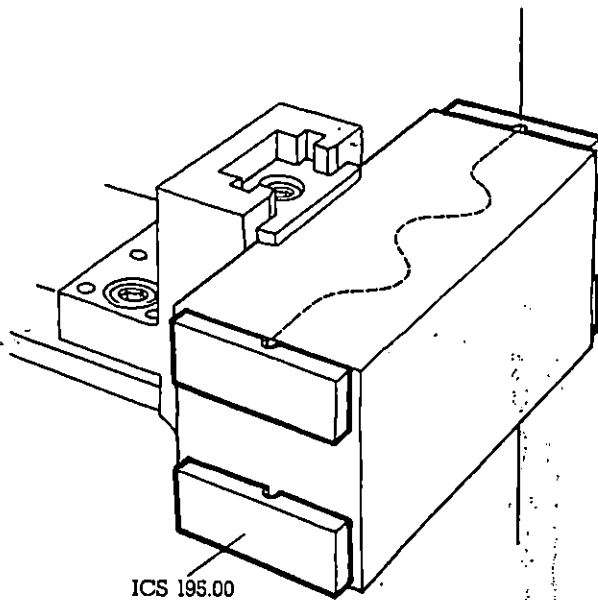
- For securing parts during a separating cut
- For improvement of the first cut conditions

Pont magnétique

- Pour adhérer les pièces découpées
- Pour améliorer les conditions de coupe

Ponte magnetico

- Per fissare lateralmente pezzi tagliati
- Per migliorare le condizioni iniziali di taglio dall'esterno



- Beispiel : Drahtausrichten
Example : Wire set up
Example : Aligneement vertical du fil
Esempio : Allineamento del filo

