

Flexibility: Modular system using standard elements ...

Horizontal machining centers



5-axis machining center



ONE modular system ...



Clamping cube
rotoFIX cube



4th axis
EA-type rotary table



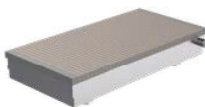
Clamping yoke
rotoFIX yoke



4./5. Axis
T-type rotary table



Tailstock
Counter bearing



Magnetic
clamping plate

**With standard
elements ...**



Clamping rail
or vise



Cover plate



Zero point system
SCHUNK Vero-S



Zero point system
GRESSEL gredoc



Machine table



Sectors

Workpiece
clamping

Machine
concept

DD or
PGD

DD
benchmark

PGD
benchmark

Additional
USPs

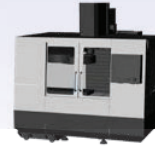
ROTOLUTION
& Service

User
reports

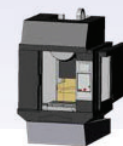
... with almost unlimited possibilities thanks to zero point clamping on all elements

Ideal for vertical machining centers

3-axis vertical machining center



3-axis vertical machining center (TC)



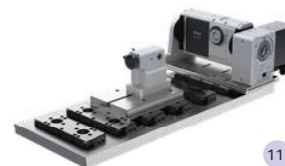
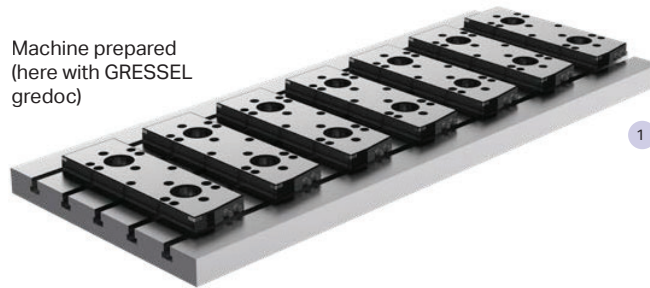
... many solutions



with clamping rails from TRIAG (above) for producing large plates (below)



Machine prepared (here with GRESSEL gredoc)



... change-over in 10-15 minutes – to any variant!

→ Customer experience report, see p. 224



can be combined with every variant – e.g. for unattended production during the night shift

Sectors

Workpiece clamping

Machine concept

DD or PGD

DD benchmark

PGD benchmark

Additional USPs

ROTOLUTION & Service

User reports

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5-axis machining center

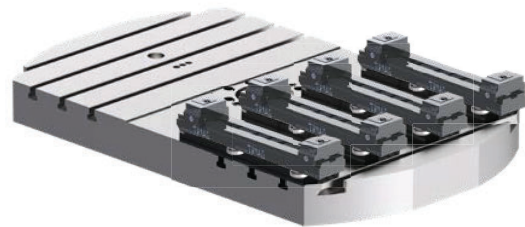


4th axis with clamping yoke on GREDOC, opposite side standard

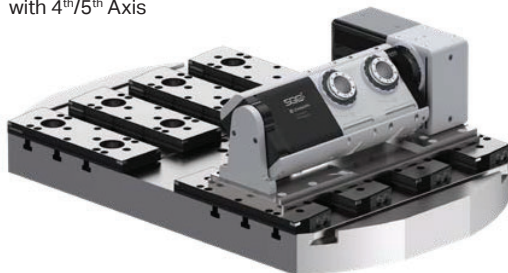


A few examples ...

Clamping rails from TRIAG on GREDOC, opposite side standard



Both sides prepared with GREDOC, one side with 4th/5th Axis



Both sides 4th/5th axis on GREDOC, opposite side standard



Both sides prepared with GREDOC, both for any variant



... of additional ideas