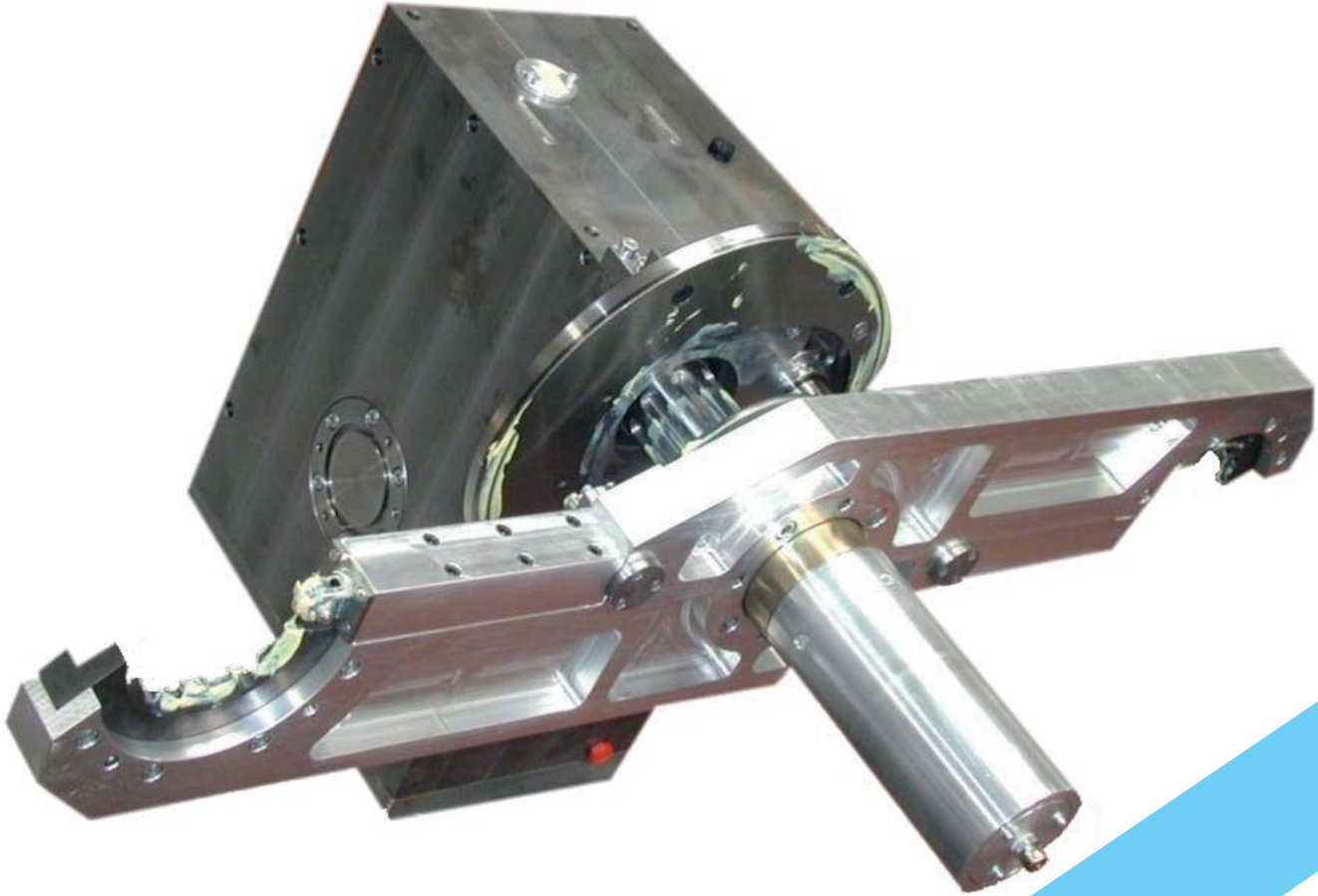


TOOL CHANGER
CU 220



CU 220
meeting a new challenge!

July 08

C006eng/0



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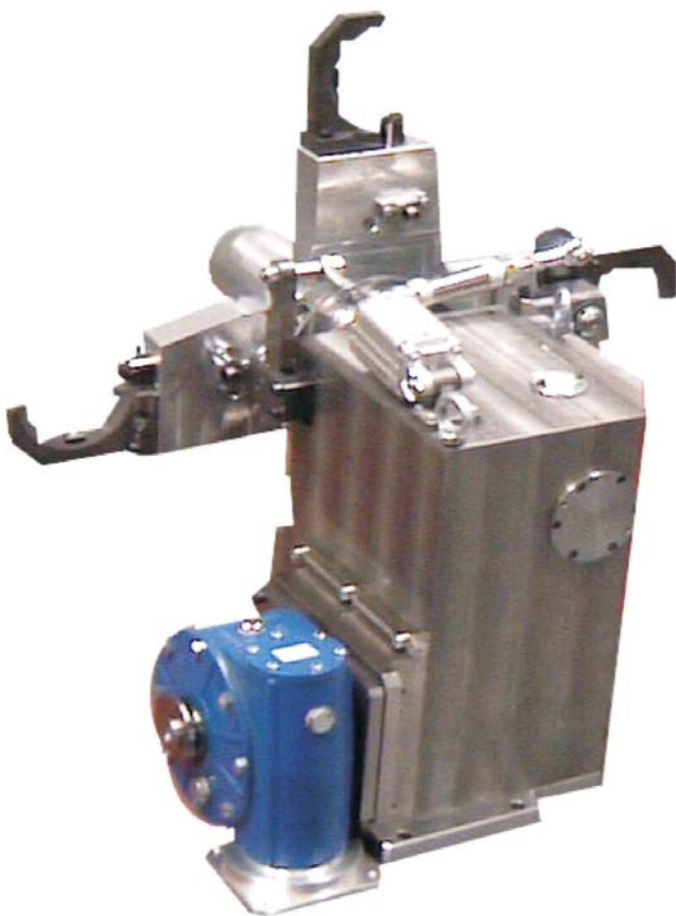
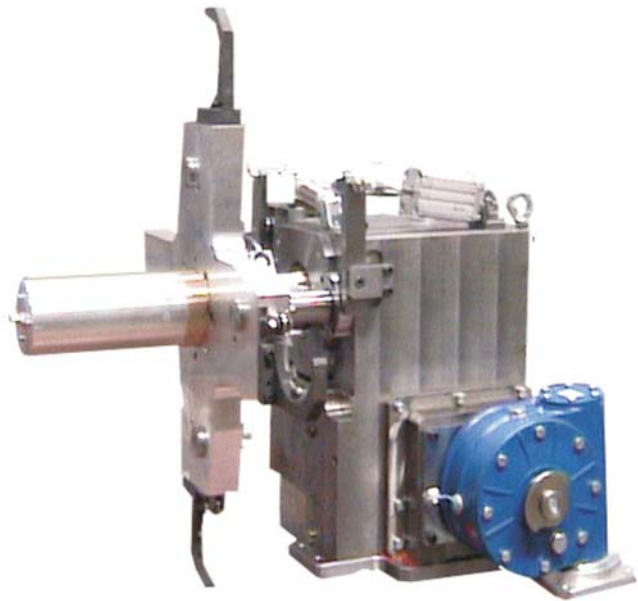


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TOOL CHANGER CU 220

The CU 220 system is a mechanical cam-driven tool changer combining an intermittent series of linear and rotary movements which perform the tool change:

- cone gripping
- extraction (from the magazine and spindle)
- changeover
- insertion (in the magazine and spindle)
- release



CHARACTERISTICS

A mechanical tool safety lock on the gripper holder arm guarantees safe tool transfer during changeover.

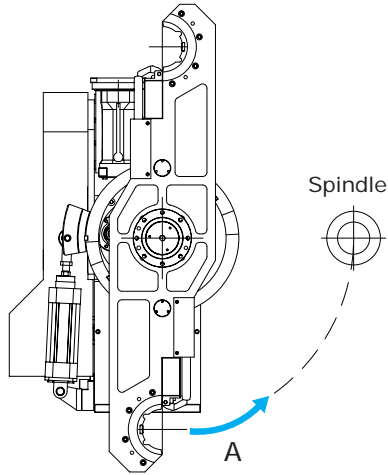
When handling particularly heavy tools and for operations with large tilting movements, a cam can be added to lock the tool on the changeover gripper before it is released from the spindle.

This ensures that tool changeover can be performed in total safety.

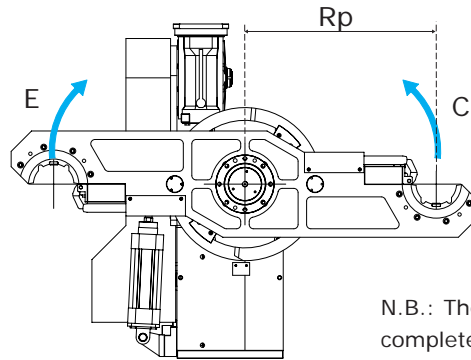
- Type of tool handled = SK 100/ISO50
- Tool change arm with centre distance 900 mm
- Synchroniser torque limiter coupling on input and output shafts (for maximum protection of the tool change unit and adjacent machine components)
- the unit is driven by a reduction gear with Servomotor to optimise cycle speed in relation to the tool for handling
- weight = 340 Kg

TOOL CHANGER CU 220

REST POSITION

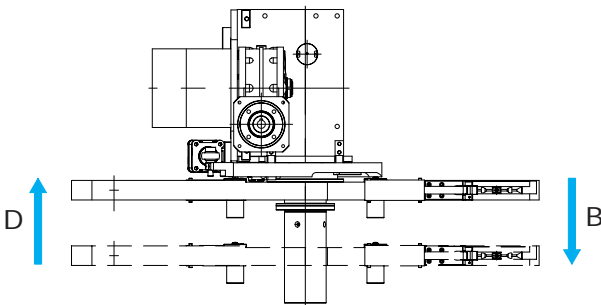


TOOL GRIPPING POSITION



N.B.: The time stated in the table refers to a complete changeover cycle, i.e. 360° of drive input shaft rotation

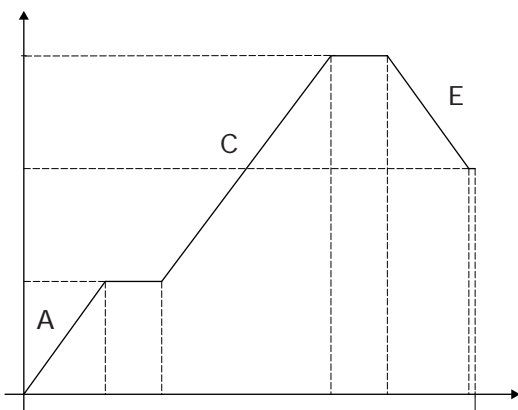
TOOL EXTRACTION/CHANGEOVER



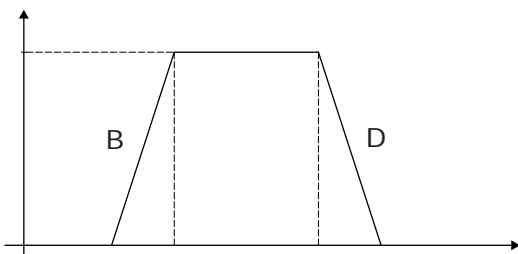
	Rp=450
10	2,3
15	3,125
**20	4
**25	4
**30	5
**40	5,6
TOOL WEIGHT "Kg"	TIME MAX. "Sec"

** For these tools the gripper engagement and disengagement action is required.

GRIPPER ARM ROTATION DIAGRAM



GRIPPER ARM EXTRACTION DIAGRAM



CYCLE DIAGRAM PHASE DESCRIPTIONS

PHASE – A:
90° rotation to grip spindle/magazine tool

PHASE – B:
Tool extraction

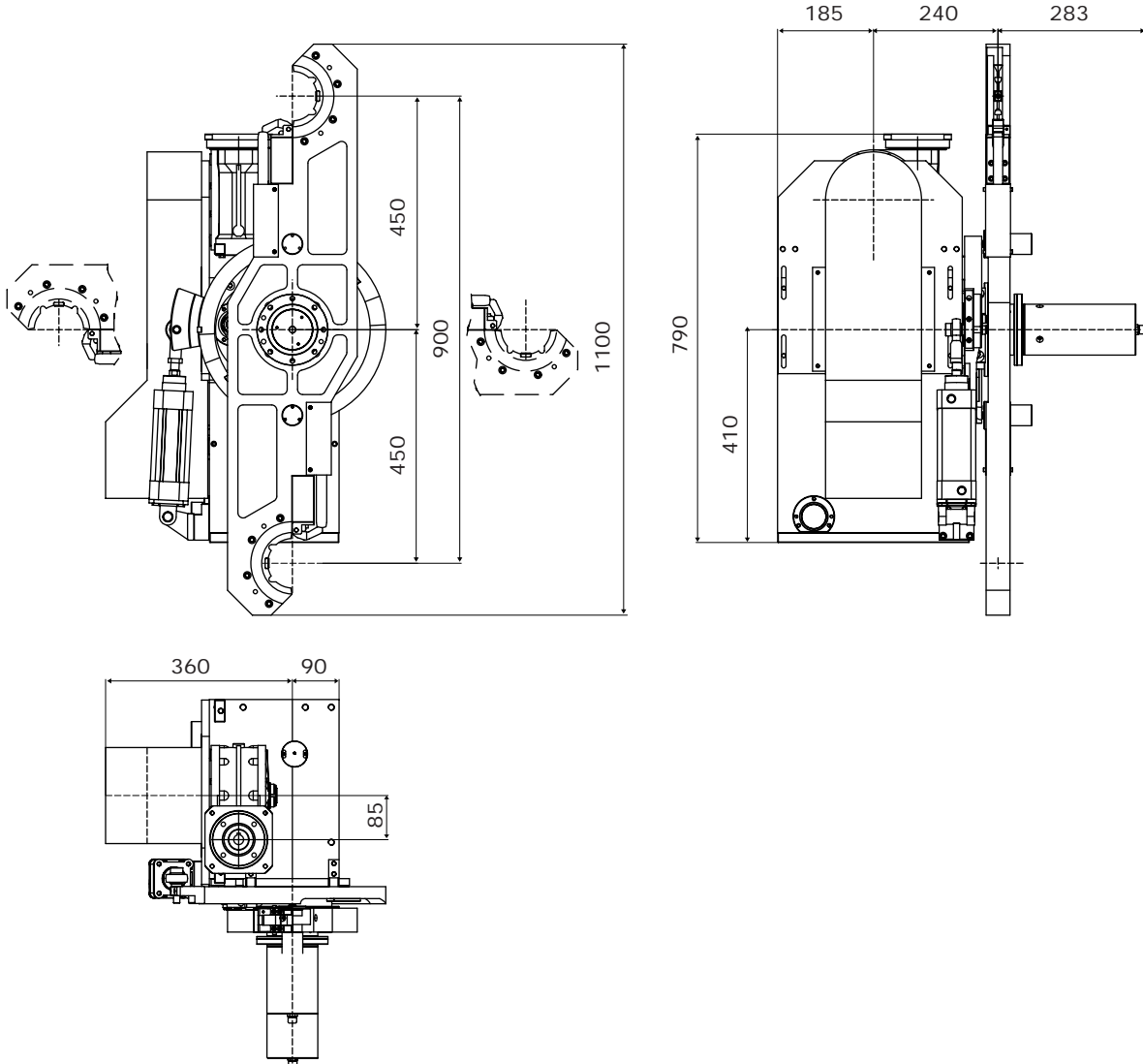
PHASE – C:
Magazine/spindle tool changeover

PHASE – D:
Tool insertion

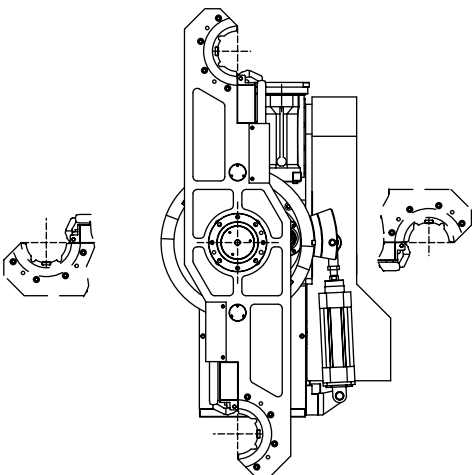
PHASE – E:
Gripper arm return to rest position

TOOL CHANGER CU 220

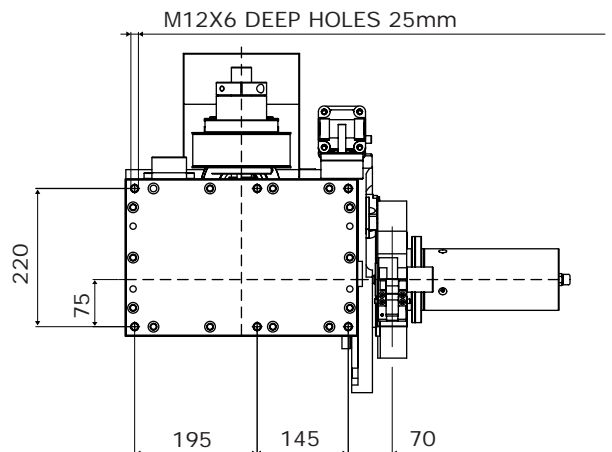
CU220 + GRIPPER ARM, LEFT-HAND VERSION



CU220 + GRIPPER ARM, RIGHT-HAND VERSION



HOLES IN BASE FOR UNIT MOUNTING



Division



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