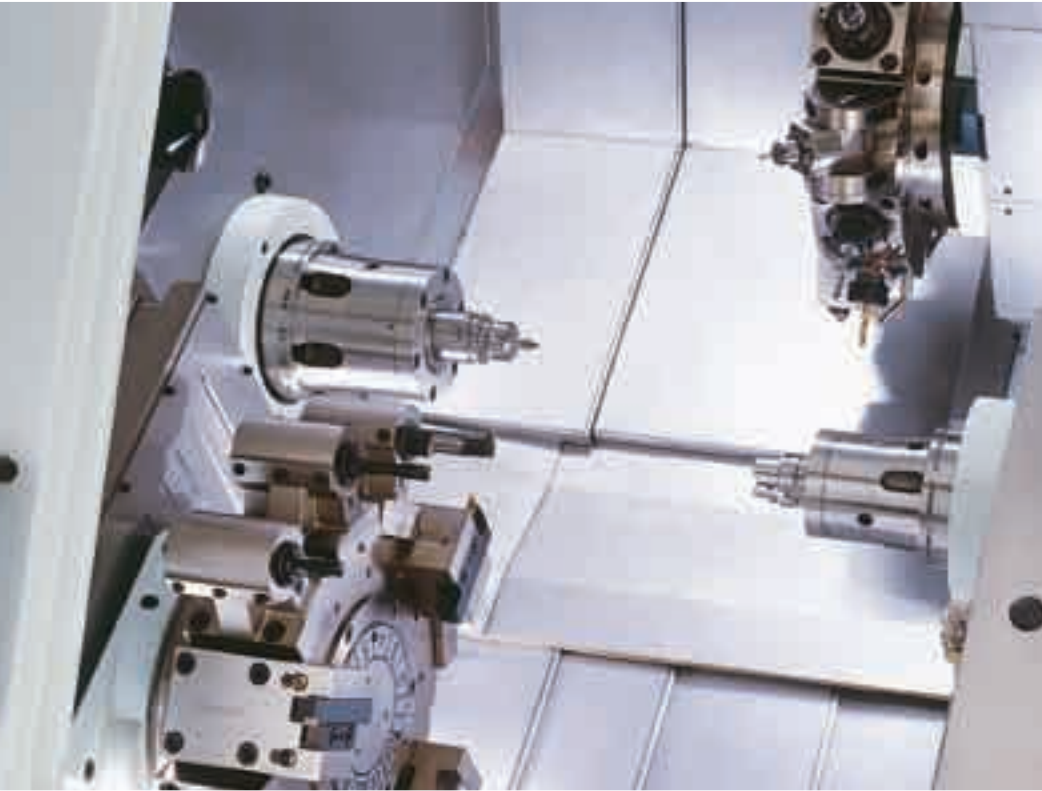


WIN WITH TECHNOLOGY

9-Axis Turn/Mill Center Quattro Series 420 710 810



**"The Eurotechs are
20% faster than our
other machines -
without changing
anything."**

*Doug Coster - Vice President
Nolte Precise Manufacturing*



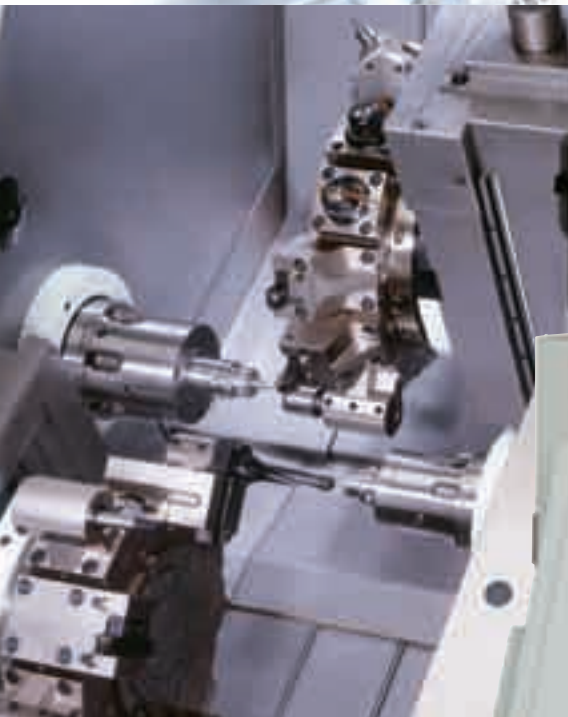
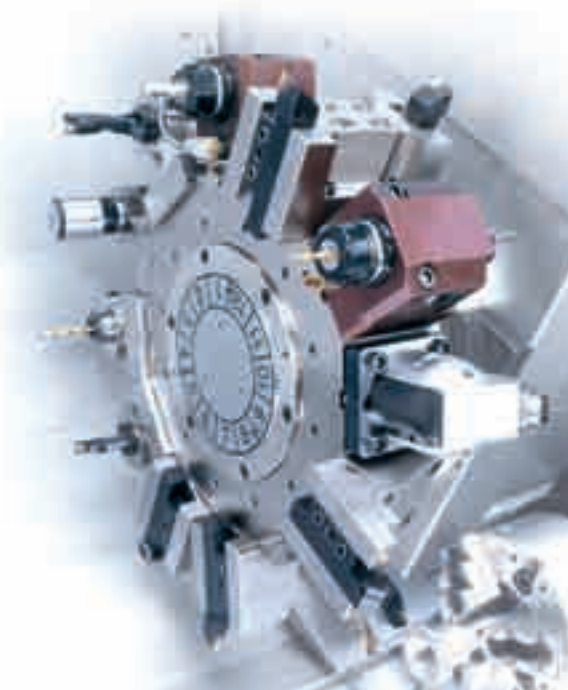
**"Not only is the
Eurotech faster than
the competition, it's
technology allows
us to truly run
'Lights-out' and that's
worth even more..."**

*Jeff Roth - Owner
Chasco Machine & Manufacturing.*



EUROTECH

Technology - Runs Faster Sleeps Less



SBS: EUROTECH SAFETY SOFTWARE TOOL LOAD MONITORING - This system monitors the loading of the most heavily used tools: e.g. 1st OP. cutting tools, roughing tools, drills or U-drills. It ensures safe automatic machining with limited operator presence.

Keep 2 tools in the cut: 25% or better cycle times

The QUATTRO range of dual-turret dual-spindle machining centers -- the ultimate for bar machining and auto loaded components. The main performance benefits offered:

- Reduction of cycle times
- Great rigidity to allow machining of tough materials
- Load up to 192 cutting tools for machining of complex parts and reduced set-up times
- Ergonomics for quick and easy access for retooling operations
- Up to 48 live tools for milling operations
- EUROPE's #1 selling multi-axis turn/mill center

The superior design delivers extremely efficient and fast production of complex parts using live tools, C-axis and Y-axis.

The Eurotech Speed Secret

Eurotech machines are designed from the ground up to be fast and automated with:

- Gap elimination: Eurotech's logic software
- Indexing on the fly
- Elimination of dwell times
- Incredible pick-off speeds
- Zero wait for C-axis engagement on live tool machines
- ClearShift sub-spindle eliminates interference and decreases cycle times
- Built-in, no add-on automation
- CNC controls loaded with "options"



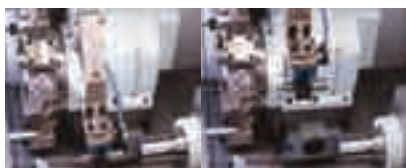
Wide range of equipment and machining solutions.

STANDARD FEATURES:

- 30-degree slant cast-iron bed
- Cartridge spindles and air purge on both main and sub-spindle
- 12-station servo-turrets - 192 tool capacity
- Sub-spindle with axial traverse
- **Polygon turning**



- Rigid tapping
- **Programmable Automatic parts-catcher**



- Finished parts conveyor
- Sub-spindle equipped with ejector and air blow
- Chip conveyor
- Coolant system featuring 7-bar pumps and filters
- Two color alarm lamp
- Air conditioned electrical cabinet

- Tool probing system
- Bar-feeder interface
- SBS tool load monitoring system
- Eurotech "EASY CYCLES"
- Eurotech "GAP ELEMINATION" software



EUROTECH SERVO TURRETS:

The rugged, quick, servo turrets (index time 0.15 sec), all prepared to accept live tools, reduce idle-times and assure high rigidity and accuracy in machining, combine with Eurotech Gang Tool (EGT) to offer extraordinary number of cutting tools (up to 96 per turret).

The position of the turrets enable reliable and flexible machining ops' on both spindles. Advantage being:

- Reduction of non-productive times
- Automatic and simultaneous machining on both sides of any workpiece
- 4-axis turning using both turrets on main or sub-spindle for simultaneous ops'
- Parts unload performed in cut time

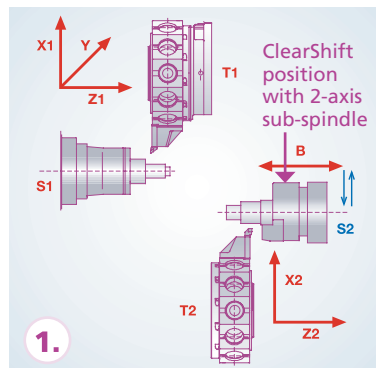


The **ClearShift®** sub-spindle features 2-axis movement (longitudinal and transversal); and is offset from the main spindle eliminating most interference problems between the two turrets and improves

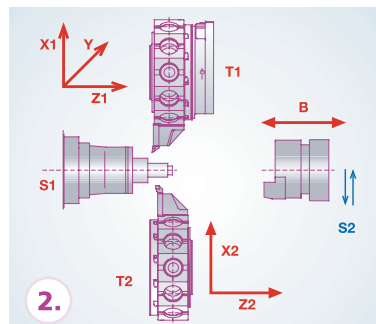
cycles times and allows safer, simpler and faster set-up times.



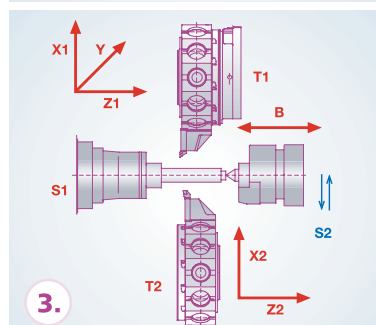
Legend = • S1: main spindle • S2: sub-spindle
• T1: upper turret • T2: lower turret



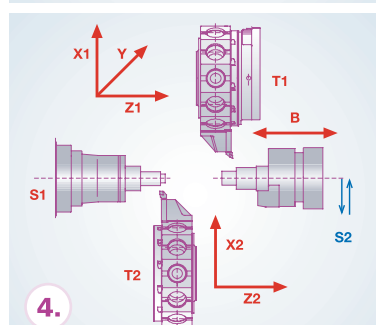
1.
Simultaneous machining of T1 on S1 and T2 on the offset S2



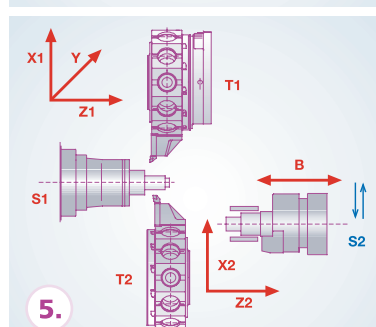
2.
Simultaneous machining of T1 and T2 on S1



3.
Simultaneous machining of T1 and T2 on S1 using S2 as regular tailstock



4.
Simultaneous machining of T2 on S1 and T1 on S2. Sub-spindle (S2) coaxial to the main spindle (S1)



5.
As per picture 2, but with offset S2 to unload the parts in idle time

MACHINE TYPE		420 S	420 SL	420 SLL	420 SLLY
MACHINING CAPACITY					
Bar capacity	in	1.77	1.77	1.77	1.77
Max. machining diameter	in	9.45	9.45	9.45	9.45
Max. swing over diameter	in	20.47	20.47	20.47	20.47

MAIN SPINDLE					
Max. speed	rpm	5000	5000	5000	5000
Spindle nose	ASA	5"	5"	5"	5"
Spindle bore	in	2.17	2.17	2.17	2.17
Inside diam. of bearings	in	3.15	3.15	3.15	3.15
Chuck diameter	in	8	8	8	8
Motor power	HP	20.1	20.1	20.1	20.1
C-axis: least input value	deg	-	0.001°	0.001°	0.001°

SUB-SPINDLE					
Max. speed	rpm	4000	4000	4000	4000
Spindle nose	ASA	5"	5"	5"	5"
Spindle bore	in	2.17	2.17	2.17	2.17
Inside diam. of bearings	in	3.15	3.15	3.15	3.15
Chuck diameter	in	6.5	6.5	6.5	6.5
Motor power	HP	15	15	15	15
C-axis: least input value	deg	-	-	0.001°	0.001°
ClearShift travel	in	4.72	4.72	4.72	4.72

UPPER TURRET					
Max no. of static tools	no.	96	96	96	96
Turret indexing (1 pos)	sec	0.15	0.15	0.15	0.15
Max no. of live tools	no.	-	24	24	24
RPM live tool - std. / max	rpm	-	4000 / 60,000	4000 / 60,000	4000 / 60,000
Motor power	HP	-	5 geared	5 geared	5 geared

LOWER TURRET					
No of stations	no.	12	12	12	12
Turret indexing (1 pos)	sec	0.15	0.15	0.15	0.15
Max no. of live tools	no.	-	-	24	24
RPM live tool - std. / max	rpm	-	-	4000 / 60,000	4000 / 60,000
Motor power (30 min. rating)	HP	-	-	5 geared	5 geared

COOLING SYSTEM					
Tank capacity	gal	66	66	66	66
Electropump motor rating	HP	5	5	5	5

DIMENSIONS AND WEIGHT					
Machine with chip conveyor	in	163.4 l x 82.7 w x 86.6 h			
Spindle center height	in	41.7	41.7	41.7	41.7
Machine weight with chip conveyor	lb	14109	14330	14550	14991

() Option

Specifications contained herein are approximate and subject to change without notice

() Option

Models available:

- S** _____ 2 turrets, 2 spindles
- SL** _____ 2 turrets (one with live tooling)
 _____ 2 spindles (one equipped with C-axis)
- SLL** _____ 2 turrets equipped with live tooling
 _____ 2 spindles featuring C-axis
- SLLY** _____ 2 turrets equipped with live tooling
 _____ 2 spindles featuring C-axis
 Y-axis on the upper turret

MACHINE TYPE		7/810 S	7/810 SL	7/810 SLL	7/810 SLLY
MACHINING CAPACITY					
Bar capacity	in	2.56 (3.15)	2.56 (3.15)	2.56 (3.15)	2.56 (3.15)
Max. machining diameter	in	9.45	9.45	9.45	9.45
Max. swing over diameter	in	20.47	20.47	20.47	20.47

MAIN SPINDLE					
Max. speed	rpm	4000 (3200)	4000 (3200)	4000 (3200)	4000 (3200)
Spindle nose	ASA	6" (8")	6" (8")	6" (8")	6" (8")
Spindle bore	in	3.15 (3.62)	3.15 (3.62)	3.15 (3.62)	3.15 (3.62)
Inside diam. of bearings	in	4.33 (5.12)	4.33 (5.12)	4.33 (5.12)	4.33 (5.12)
Chuck diameter	in	8	8	8	8
Motor power	HP	35	35	35	35
C-axis: least input value	deg	-	0.001°	0.001°	0.001°

SUB-SPINDLE					
Max. speed	rpm	4000	4000	4000	4000
Spindle nose	ASA	5"	5"	5"	5"
Spindle bore	in	2.17	2.17	2.17	2.17
Inside diam. of bearings	in	3.15	3.15	3.15	3.15
Chuck diameter	in	6.5	6.5	6.5	6.5
Motor power	HP	15	15	15	15
C-axis: least input value	deg	-	-	0.001°	0.001°
ClearShift travel	in	4.72	4.72	4.72	4.72

UPPER TURRET					
Max no. of static tools	no.	96	96	96	96
Turret indexing (1 pos)	sec	0.15	0.15	0.15	0.15
Max no. of live tools	no.	-	24	24	24
RPM live tool - std. / max	rpm	-	4000 / 60,000	4000 / 60,000	4000 / 60,000
Motor power	HP	-	5.0	5.0	5.0

LOWER TURRET					
No of stations	no.	12	12	12	12
Turret indexing (1 pos)	sec	0.15	0.15	0.15	0.15
Max no. of live tools	no.	-	-	24	24
RPM live tool - std. / max	rpm	-	-	4000 / 60,000	4000 / 60,000
Motor power (30 min. rating)	HP	-	-	5 geared	5 geared

COOLING SYSTEM					
Tank capacity	gal	66	66	66	66
Electropump motor rating	HP	5	5	5	5

DIMENSIONS AND WEIGHT					
Machine with chip conveyor	in	163.4 l x 82.7 w x 86.6 h			
Spindle center height	in	41.7	41.7	41.7	41.7
Machine weight with chip conveyor	lb	14330	14550	14771	15212



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