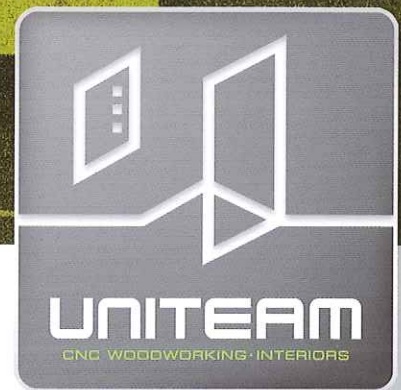
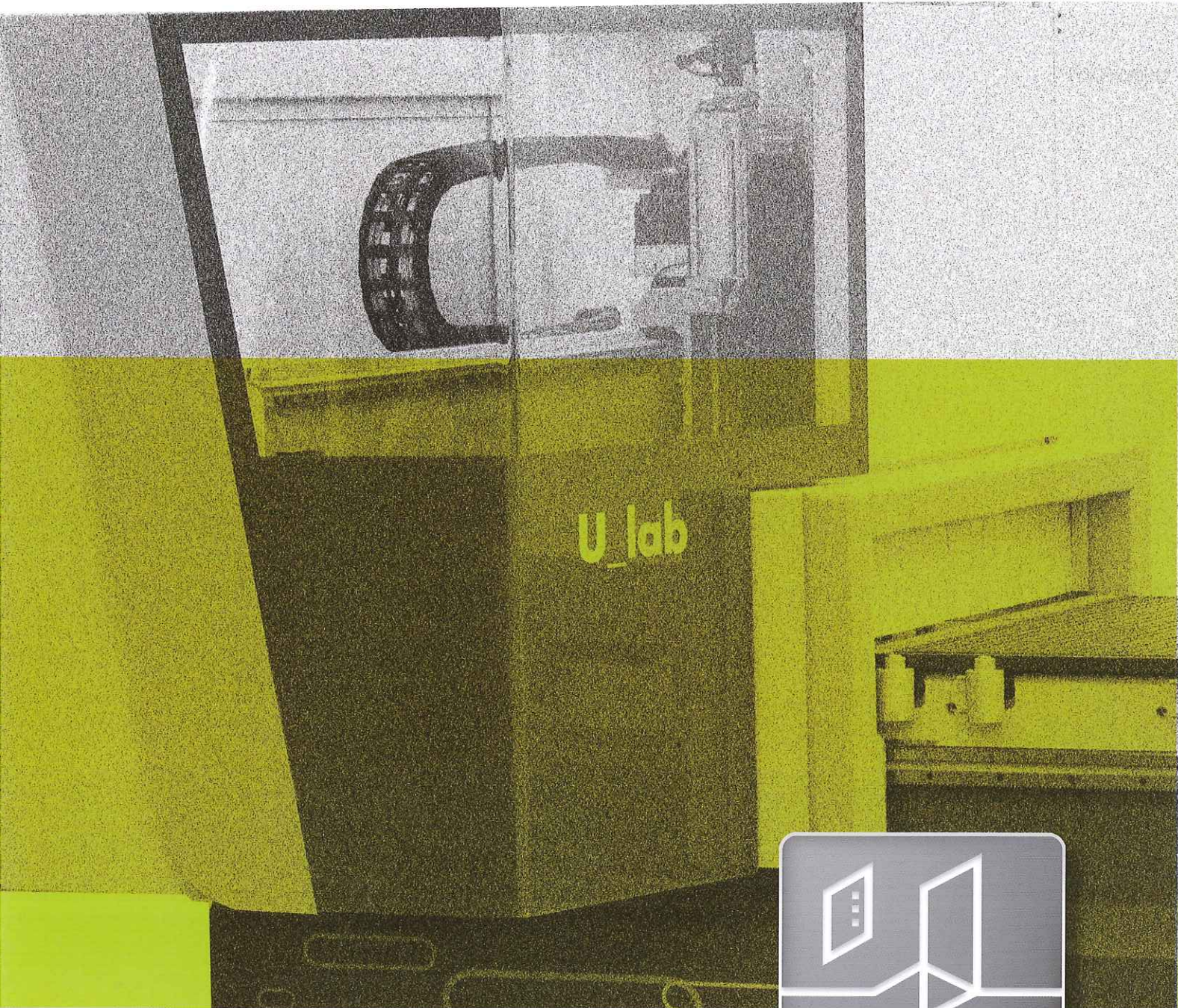


High performance multipurpose 3-4 axis machining centres

Centri di lavoro ad alte prestazioni a 3-4-assi

U_lab N



U_lab N: Il CNC che consente di produrre in nesting per singola commessa

The nesting CNC solution for job lot production

U_lab N è un moderno CNC concepito per la produzione di elementi per l'industria del mobile e dei compositi. I singoli pezzi vengono ricavati da un unico pannello o strato di materiale, di formato commerciale standard, utilizzando la tecnica del Nesting. L'elevata automazione ed integrazione software del centro di lavoro consentono di ottimizzare al massimo la produttività, riducendo al minimo l'intervento dell'operatore.

U_lab N is a new modern CNC designed to produce elements for furniture cabinets or composite materials. The single pieces of different shapes and sizes are cut out from a single, commercial size raw panels using the Nesting mode technique.

The high levels automation and software integration of the CN allow a considerable time saving during the production cycle, optimising the processing and remarkably reducing operator interventions.

U_lab N



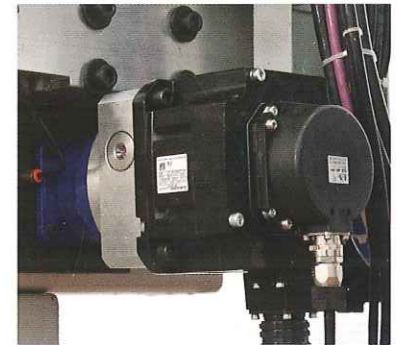
U_lab N technology highlights:

- CNC a 3-4 assi interpolati
- Area di lavoro: 25.12 - 37.15 - 37.18 - 30.22 - 42.22
- Spessore max. lavorabile: 100 mm
- Elettro-mandrino da 8 - 9,6 Kw (S1/S6) HSK 63F - 24.000 RPM (std.)
- Elettro-mandrino da 11 - 13 Kw (S1/S6) HSK 63F - 24.000 RPM (opt.)
- Cambio utensili in automatico
- Testa a forare da 1,7 Kw, (2,5 HP), 6.000 RPM con inverter
- Motori assi con encoder assoluti
- Pompa Vacuum da 250 m3/h (fino a 2 pompe da 250 m3/h)

U_lab N technology highlights.

- CNC with 3-4-interpolated axis
- Useful working area: 25.12 - 37.15 - 37.18 - 30.22 - 42.22
- Max working thickness: 100 mm
- 8 - 9,6 Kw (S1/S6) elctro-spindle, HSK 63F - 24.000 RPM (std.)
- 11 - 13 Kw (S1/S6) elctro-spindle, HSK 63F - 24.000 RPM (opt.)
- Automatic tool changer
- 1,7 Kw (2,5 HP) drilling unit motor, inverter driven, 6.000 RPM
- Brushless axis motor with absolute encoder
- 250 m3/h Vacuum pump (up to 2, 250 m3/h)

Positioning system



movimentazione assi con motori brushless ed encoder pignone-cremagliera e guide a ricircolo di sfere.
axis driven by digital brushless motors and absolute encoders; movements on rack and pinion, bearings on linear guides

U_lab N features

1

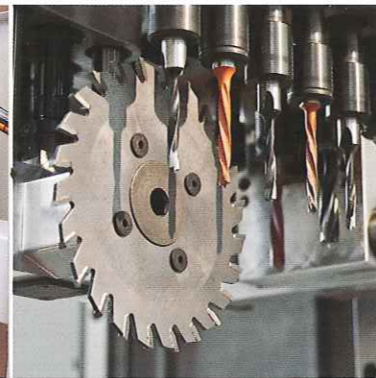
Elettro mandrino



Electro spindle

2

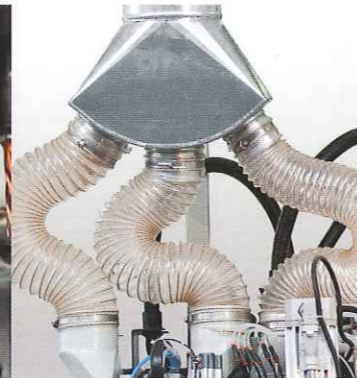
Tre tipologie di unità a forare



Three types of drilling units

3

Gruppo aspirazione (a richiesta)



Dust extraction unit (optional)

4

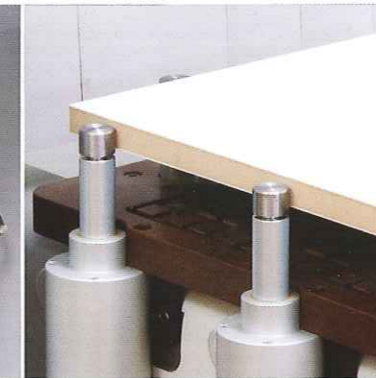
Gruppo lubrificazione centralizzato (a richiesta)



Centralized lubrication unit (optional)

5

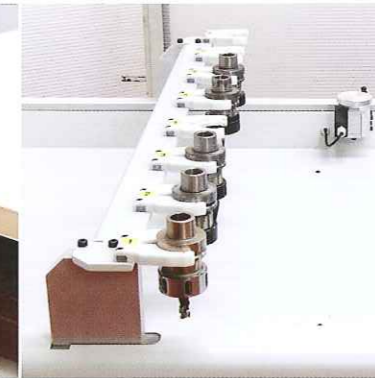
Battute di riferimento con cilindri pneumatici (std.)



Pneumatic reference stops (std.)

6

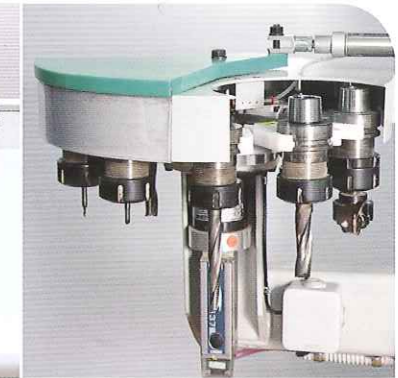
Magazzino utensili lato basamento (std.)



Tool storage (std.)

7

Magazzino utensili a 10 posizioni con revolver (a richiesta)



10 position traveling revolving tool changer (optional)

DATI TECNICI

Campo utile di lavoro asse X	2500 - 3050 - 3750 - 4250 mm
Campo utile di lavoro asse Y	1250 - 1550 - 1850 - 2200 mm
Spessore massimo pezzo	100 mm
Traslazione asse X	pignone e cremagliera
Traslazione asse Y	pignone e cremagliera
Traslazione asse Z	vite a riciccolo di sfere
Velocità massima in asse X	25 / 60 m/1'
Velocità massima in asse Y	25 / 60 m/1'
Velocità massima in asse Z	20 m/1'
mandrini verticali	5 / 10
mandrini orizzontali	2+2 / 1+1
lama D=120 mm X - XY	1 / 1+1
Dispositivo Touch	optional
Spintore di carico / scarico automatico	optional
Pompa a vuoto	1/2 x 250 m3/h
Battute pneumatiche	4 / 5
Velocità rotazione fresatore	1000 - 24000 rpm
Potenza elettrica installata	17 / 26 kW
Attacco alla rete pneumatica	3/8" G pollici
Pressione aria d'esercizio	6-7 bar
Diametro bocca d'aspirazione	250 mm
Velocità minima di aspirazione	30 m/s
Consumo aria per aspirazione	5300 m3/h

TECHNICAL FEATURES

Working field - X axis	2500 - 3050 - 3750 - 4250 mm
Working field - Y axis	1250 - 1550 - 1850 - 2200 mm
Maximum work piece thickness	100 mm
Driven system X-axis	rack & pinion
Driven system Y-axis	rack & pinion
Driven system Z-axis	ballscrew
Maximum speed - X axis	25 / 60 m/1'
Maximum speed - Y axis	25 / 60 m/1'
Maximum speed - Z axis	20 m/1'
vertical spindles	5 / 10
horizontal spindles	2+2 / 1+1
1 sawblade unit D=120 mm X - XY	1 / 1+1
Touch device	optional
Automatic loading/ unloading pusher	optional
Vacuum pumps	1/2 x 250 m3/h
Pop-up stops	4 / 5
Milling aggregate rotation speed	1000 - 24000 rpm
Total power installed	17 / 26 kW
Connection to air supply	3/8" G inches
Air working pressure	6-7 bar
Suction inlet diameter	250 mm
Minimal speed suction	30 m/s
Average air consumption per cycle	5300 m3/h

TECHNISCHE DATEN

Max. Arbeitsbereich Achse X	2500 - 3050 - 3750 - 4250 mm
Max. Arbeitsbereich Achse Y	1250 - 1550 - 1850 - 2200 mm
Max. Werkstückstärke Achse Z	100 mm
Antrieb Achse X	durch und geschliffener
Antrieb Achse Y	durch und geschliffener
Antrieb Achse Z	geschliffenen Kugelumlaufspindeln
Max. Verfahrgeschwindigkeit in X	25 / 60 m/1'
Max. Verfahrgeschwindigkeit in Y	25 / 60 m/1'
Max. Verfahrgeschwindigkeit in Z	20 m/1'
vertikale Spindeln	5 / 10
horizontale Spindeln	2+2 / 1+1
1 Nutsäge D=120 mm X - XY	1 / 1+1
Werkzeugmessung	fakultativ
Automatisches Laden / Entladen Drücker	fakultativ
Vakuumpumpen	1/2 x 250 m3/h
pneumatische Vorrüstung	4 / 5
Drehgeschwindigkeit Fräsaggregat stufenlos	1000 - 24000 u/min
Total installierte elektrische Leistung	17 / 26 kW
Anschluss Pneumatikanlage	3/8" Gas
Betriebsluftdruck	6-7 bar
Durchmesser Absaugstutzen	250 mm
Notwendige Absauggeschwindigkeit	30 m/sek
Absaugvolumen	5300 m3/h

DONNEES TECHNIQUES

Champ utile d'usinage de l'axe X	2500 - 3050 - 3750 - 4250 mm
Champ utile d'usinage de l'axe Y	1250 - 1550 - 1850 - 2200 mm
Epaisseur maximum de la pièce	100 mm
Le déplacement X s'obtient	pignon et crémaillère
Le déplacement Y s'obtient	pignon et crémaillère
Le déplacement Z s'obtient	vis à roulement à billes
Vitesse maximum en axe X	25 / 60 m/1'
Vitesse maximum en axe Y	25 / 60 m/1'
Vitesse maximum en axe Z	20 m/1'
broches verticales	5 / 10
broches horizontales	2+2 / 1+1
1 lame diam = 120 mm X - XY	1 / 1+1
palpeur outil	en option
Automatique poussoir de chargement / déchargement	en option
Pompes à vide	x 250 m3/h
butées pneumatique	4 / 5
Vitesse rotation défonçage	1000 - 24000 t/1'
Puissance électrique absorbée	17 / 26 kW
Branchement au réseau air comprimé	3/8" G pouces
Pression de service air comprimé	6-7 bar
Diamètre goulotte d'aspiration	250 mm
Vitesse minimum d'aspiration	30 m/s
Consommation d'air pour l'aspiration	5300 m3/th

DATOS TECNICOS

Campo de trabajo útil eje X	2500 - 3050 - 3750 - 4250 mm
Campo de trabajo útil eje Y	1250 - 1550 - 1850 - 2200 mm
Grosor máximo pieza	100 mm
El movimiento X se produce a través	piñón y cremallera
El movimiento Y se produce a través	piñón y cremallera
El movimiento Z se produce a través	tomillo de recirculo de esferas
Velocidad máxima de desplazamiento eje X	25 / 60 m/1'
Velocidad máxima de desplazamiento eje Y	25 / 60 m/1'
Velocidad máxima de desplazamiento eje Z	20 m/1'
mandriles verticales	5 / 10
mandriles horizontales	2+2 / 1+1
1 sierra D=120 mm X - XY	1 / 1+1
sonda con contacto	opcional
Empujador automático de carga / descarga	opcional
Bombas de vacío	1/2 x 250 m3/h
topes neumáticos	4 / 5
Velocidad rotación fresador	1000 - 24000 rpm
Potencia eléctrica instalada	17 / 26 kW
Unión a la red neumática	3/8" G pulgadas
Presión aire de funcionamiento	6-7 bar
Diametro toma de aspiración	250 mm
Velocidad mínima de aspiración	30 m/s
Consumo aire de aspiración por ciclo	5300 m3/h

TEHNIČKE KARAKTERISTIKE

Radna dužina po osi X	2500 - 3050 - 3750 - 4250 mm
Radna dužina po osi Y	1250 - 1550 - 1850 - 2200 mm
Max. debljina komada	100 mm
Pomicanje osi X	prenosni stakal
Pomicanje osi Y	prenosni stakal
Pomicanje osi Z	vreteno
Max brzina pomaka u osi X	25 / 60 m/1'
Max brzina pomaka u osi Y	25 / 60 m/1'
Max brzina pomaka u osi Z	20 m/1'
vertikalnih svrdla	5 / 10
horizontalnih svrdla	2+2 / 1+1
pila D=120 mm X - XY	1 / 1+1
Senzorni uređaj Touch	opcija
Potiskivač automatskog utovara/istovara	opcija
Vakuumska pumpa	x 250 m3/h
Pneumatske referentne točke	4 / 5
Broj okretaja glodala	1000 - 24000 o/1'
Ukupna instalirana snaga	17 / 26 kW
Priključak na odsisnu mrežu	3/8" G pollici
Pritisak zraka	6-7 bar
Priključak za odsis	250 mm
Minimalna brzina odsisa zraka	30 m/sek
Potrošnja zraka na odsisu	5300 m3/h

ТЕХНИЧЕСКИЕ ДАННЫЕ

Полезный ход по оси X	2500 - 3050 - 3750 - 4250 mm
Полезный ход по оси Y	1250 - 1550 - 1850 - 2200 mm
Максимальная толщина заготовки	100 mm
Передача по оси X	рейка-шестерня
Передача по оси Y	рейка-шестерня
Передача по оси Z	винт-гайка
Максимальная скорость по оси X	25 / 60 м/мин
Максимальная скорость по оси Y	25 / 60 м/мин
Максимальная скорость по оси Z	20 м/мин
вертикальных шпинделей	5 / 10
горизонтальных шпинделей	2+2 / 1+1
Пила D=120 X - XY	1 / 1+1
Сенсорное устройство Touch	опция
Толкатель автоматической системы загрузки / выгрузки	опция
Вакуумный насос	1/2 x 250 м3/ч
Всплывающие пневматические упоры	4 / 5
Скорость вращения фрезы	1000 - 24000 об/мин
Установленная электрическая мощность	17 / 26 кВт
Соединение к пневматической сети	3/8" G дюйм
Рабочее давление воздуха	6-7 бар
Диаметр вытяжного отверстия	250 мм
Минимальная скорость вытяжки	30 м/с
Расход воздуха для аспирации	5300 м3/ч

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