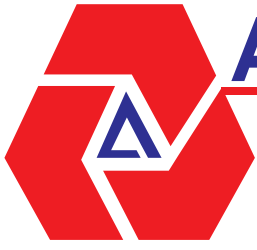


... Machining Video of TTRE3

... all

± 0.001 - 450/700 Nm
+120° - 90° 450/630 Nm
0.001 (point)
18000 rpm
Built-in HSK-A63
3000 rpm
3 kW (380V)
100 Nm



ANADOLU CNC MAKİNA

SANAYİ ve TİCARET A.Ş.



Twinhorn



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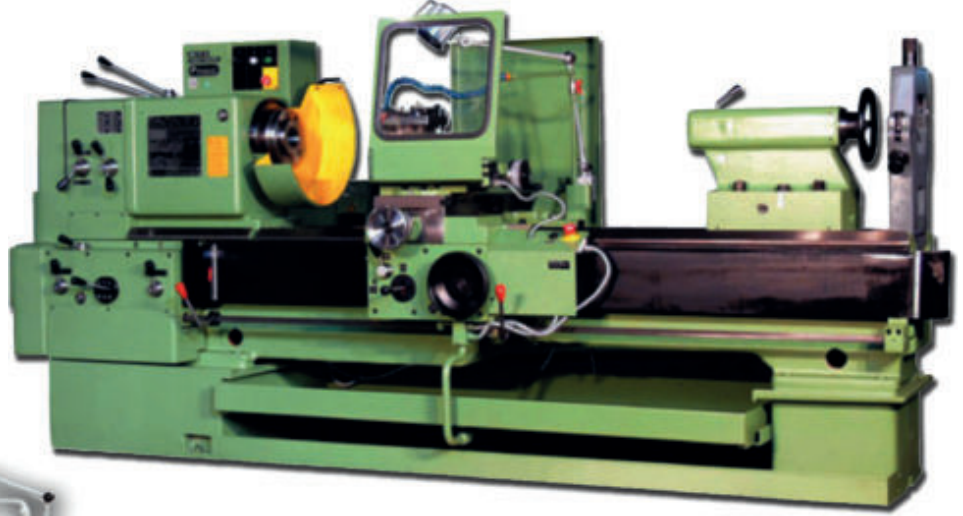


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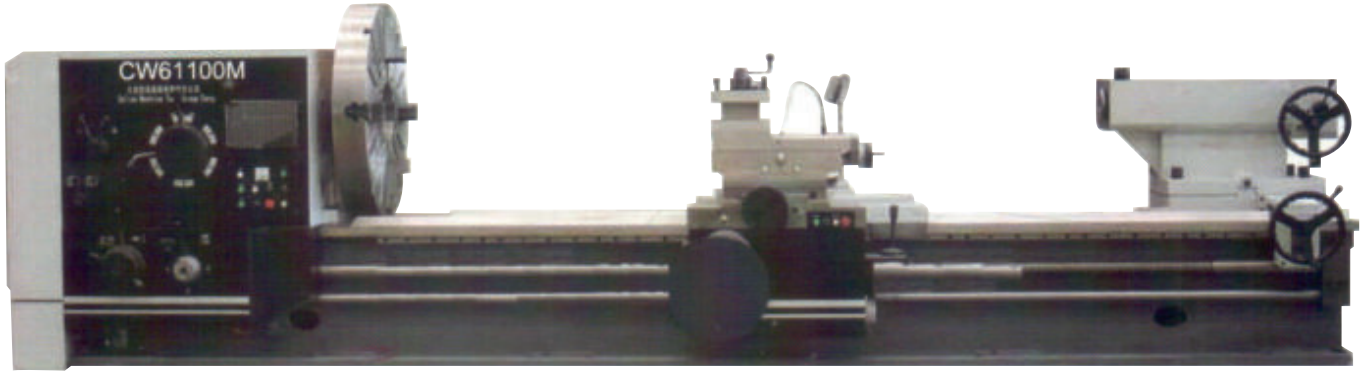
TOS TORNA TEZGAHLARI



| TEKNİK ÖZELLİKLER | BİRİM | SN 50 |
|---------------------------------------|----------|------------------|
| Gövde üzerinde işlenebilecek çap | mm. | 500 |
| Puntalar arası mesafe | mm. | 1000-1500-2000 |
| Suport üzerinde işlenebilecek çap | mm. | 270 |
| Köprü boşluğunda işlenebilecek çap | mm. | 700 |
| Düz ayna önünde köprü genişliği | mm. | 230 |
| Gövde genişliği | mm. | 340 |
| Puntalar arasında max. parça ağırlığı | kg. | 300 |
| En büyük takım şaftının kesiti | mm. | 32x20 |
| İş mili devir adedi | ad. | 12 kademe 2 seri |
| Devir sayısı ağırlığı | dev/dak. | 22-2000 |
| İş mili deliği boydan boya | mm. | 51 |
| İş mili iç koniği | - | 6 mors |
| İş mili kısa kafa koniği | no. | 6 |
| İş milinde max. moment | nm. | 1200 |
| Karşı punta pinözü çapı | mm. | 70 |
| Karşı punta koniği | mors | 5 |
| Karşı punta pinözü hareket miktarı | mm. | 180 |
| Karşı puntanın aksel ayarı | mm. | ±12 |
| Enine suport hareket miktarı | mm. | 300 |
| Çapraz suport hareket miktarı | mm. | 140 |
| Suport ilerlemeleri kademe sayısı | ad. | 38 |
| Boyuna ilerleme alanı | mm/dev. | 0.05-6.4 |
| Vida hatveleri | - | - |
| 29 çeşit metrik vida | mm. | 0.05-40 |
| 35 çeşit withworth vida | z/1 | 80-1 |
| 31 çeşit diametral pitch vida | dp. | 72-1 |
| 26 çeşit modül vida | modül | 0.25-20 |
| Anamı çapı x hatvesi | mm. | 40x6 |
| Ana motor gücü | kw/hp | 5.5/7.5 |
| Tezgahın ağırlığı | kg. | (PA 1000) 1685 |

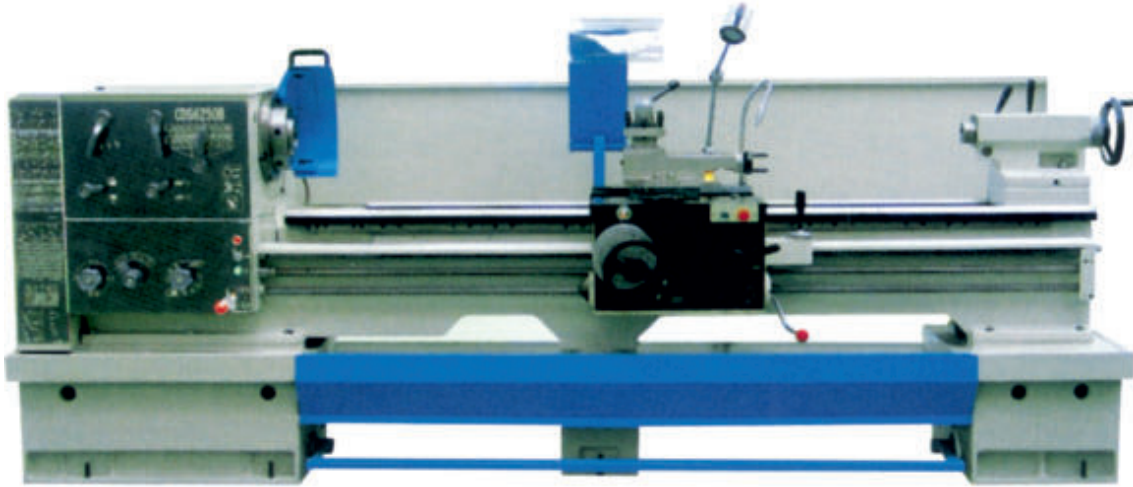
| TEKNİK ÖZELLİKLER | BİRİM | SN 71 C | |
|-----------------------|------------------------------------|------------------|------------------|
| Kapasite | Banko Üzeri Çap | mm | 500 |
| | Banko Üzeri Mesafe | mm | 1030-1500-2000 |
| | Köprü Boşluğundaki Çap | mm | 270 |
| | Karşı Üzerindeki Çap | mm | 270 |
| Puntalar Arası Mesafe | Puntalar Arası Mesafe | mm | 230 |
| | Mil Ucu | mm | 340 |
| | Mil Delik Çapı | mm | 300 |
| | Mil Konisi | mm | 32x20 |
| Mili Hız Aralığı | Mil Hız Aralığı | dk -1 | 12 Kademe 2 Seri |
| | Enine Suport Hareketi | mm | 300 |
| | Çapraz Suport Hareketi | mm | 140 |
| | Doğrusal İlerleme Oranı | mm.ot-1 | 6 Mors |
| Araba | Enine İlerleme Oranı | mm.ot-1 | 6 |
| | Metrik 29 | mm | 1200 |
| | Withworth 35 | Hatve Sayısı /1* | 70 |
| | Modül Hatve 20 | mm | 5 |
| Karşı Punta | Diametrik Hatve 31 | DP | 180 |
| | Karşı Punta Çapı | mm. | ±12 |
| | Karşı Punta Koniği | mm. | 300 |
| | Karşı Punta Bıçak | mm. | 140 |
| Güç | Ana Motor Çıkış Gücü | kW | 38 |
| | Yükseklik - Geniçlik | mm | 0.05-6.4 |
| Uzunluk | Uzunluk DBC 1500, 2000, 3000, 4000 | mm | |
| | Ağırlık | kg | 0.05-40 |

CW-M SERİSİ TORNA TEZGAHLARI



ÖZELLİKLER

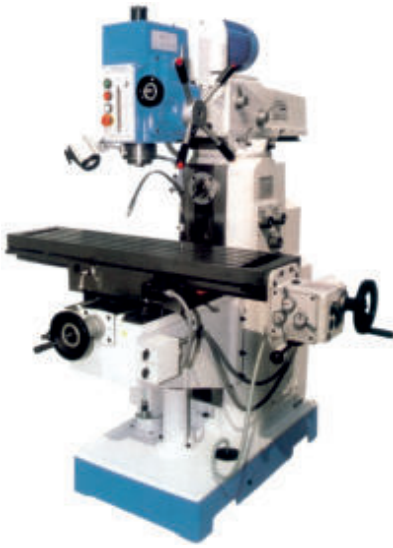
| Model | Cw6 100M | Cw6 100M | Cw6 100M | Cw6 100M |
|------------------------------|----------------|----------|----------|----------|
| Yatak üstü çevirme | 1000 mm. | 1200 mm. | 1400 mm. | 1600 mm. |
| Kesme çapı | 830 mm. | 880 mm. | 1030 mm. | 1230 mm. |
| Max. çevirme çapı | 1400 mm. | 1650 mm. | 1800 mm. | 2000 mm. |
| Kızak uzunluğu | 600 mm. | | | |
| Merkezler arası uzaklık | | | | |
| Fener mili | 130 mm. | | | |
| Fener mili taperi | 140 mm. (1:20) | | | |
| İş mili burnu | A-15 | | | |
| İş mili hızı | 21 | | | |
| İş mili hız aralığı | | | | |
| Max. mil motoru | 22 kW | | | |
| Soğutma motoru | 0.126 kW | | | |
| Kızak genişliği | 755 mm. | | | |
| Max. x ekseni hareketi | 580 mm. | 670 mm. | 725 mm. | 825 mm. |
| Max. y ekseni hareketi | 300 mm. | | | |
| Max. takım boşluğu genişliği | 45x45 mm. | | | |
| Boştaki eksen hızı | 0.05-6 mm/rev | | | |
| X ekseni ikileme | 0.1-12 mm/rev | | | |
| Modül mesafesi | 1/2-56 DP | | | |
| Modül dia çekme | 1 120 mm. | | | |
| Punta ebadları | 0.5-60 MOD | | | |
| Punta taperi | 150 mm. | | | |
| Punta hareketi | 80 mm/1:20 | | | |
| Makina ağırlığı | 300 mm | | | |
| | 10000 mm | 750 mm | 11000 mm | 11500 mm |
| Merkezler arası | | | | |
| Makina genişliği | 1855 mm | 1955 mm | 2010 mm | 21110 mm |
| Makina yüksekliği | 1780 mm | 1910 mm | 1980 mm | 2080 mm |

TORNA TEZGAHLARI


| Model | | CD6240A/50A/66A | CD6245B/56B/66B | CDS6250B50B/66B | CDS6250C/66C |
|--------------------------|-----|-------------------------|-----------------|-----------------|--------------|
| Max. Swing over bed | mm | 400/500/660 | 450/560/660 | 500/660 | 500/660 |
| Max. Swing over carriage | mm | 220/290/430 | 220/330/430 | 290/440 | 290/440 |
| Max. swing in gap | mm | 700/760/910 | 700/810/910 | 760/910 | 760/910 |
| Max. Length of workpiece | mm | 750/1000/1500/2000/3000 | | | |
| Spindle speed | rpm | 11 ~1400 | 16 - 1600 | 26 - 2000 | 26 - 1700 |
| Spindle bore | mm | Ø 52 | Ø 82 | Ø 82 | Ø 105 |



KALIPCI FREZE TEZGAHLARI



MILLING MACHINE X6332C

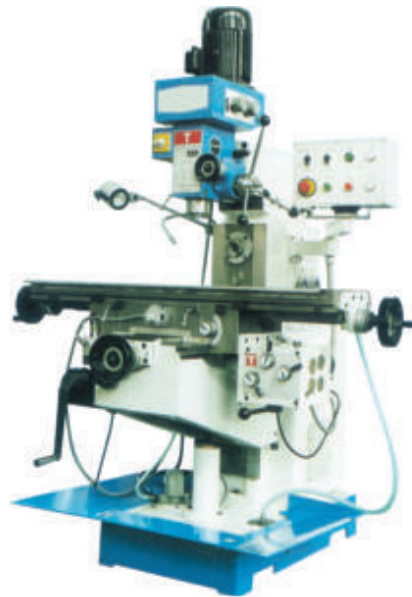
| | |
|---------------------------------|--|
| Spindle taper | ISO 40 |
| Spindle travel | 150 mm |
| Distance from spindle to column | 200-600 mm |
| Distance from spindle to table | 155-450 mm (V) 0-300 mm (H) |
| Range fo spindle speed | 20 step 76-6980rpm(V) 12 step 60-1350rpm(H) |
| Size of table surface | 1250x320 mm |
| Table travel (X, Y, Z) | 800x300x300 mm |
| T-slot (number-width-distance) | 3/14/70 mm |
| Main motor power | 3.7kW(V);2kW (H) |
| Overall dimension | 1820x1520x2270 mm |
| N.W./G.W. | 1850/2050kg |

STANDART AKSESUARLAR

**3 Eksen Dijital
Üniversal Divizör
Döner Tabla Divizörü
Pens Takımı
Bağlama Seti
Mengene + Avadanlıklar**

| MODEL | XZ6326 |
|--|-------------------------|
| Max. drilling dia (mm) | 40 |
| Max. horizontal milling dia. (mm) | 125 |
| Max. vertical milling dia (mm) | 25 |
| Max. boring dia (mm) | 120 |
| Max. tapping dia. | M16 |
| Distance spindle to table surface (mm) | 100-480 67-2010 40-1300 |
| Spindle speeds range (rpm) | 120 |
| Spindle travel (mm) | 0.1 0.15 0.3 |
| Automatic spindle feeds | 1120x260 |
| table size (mm) | 600x300 |
| Table travel (mm) | 1580x1450x2150 |
| Overall dimensions (mm) | 1.5.1450x2150 |
| Motor (kw) | 1.5/2.2 2.2 |
| N.W./G.W (kg) | 1350/1500 |

| MILLING MACHINE X6336C | |
|--|--|
| Spindle taper | ISO 40 (Vertical) ISO 50 (Horizontal) |
| Distance from vertical spindle to worktable | 135-484 mm |
| Distance from horizontal spindle to worktable | 0-350 mm |
| Distance from horizontal spindle to supporting | 230 mm |
| Spindle speeds | 75-3500rpm (Vertical) 60-1800rpm (Horizontal) |
| Table size | 1250x360 mm |
| Max. travel of table | 1000x300x350 mm |
| Main motor power | 5.5kw (Vertical) 4 kw (Horizontal) |
| Arm travel | 500 mm |
| Overall dimension | 2220x1790x2360 mm |
| N.W./G.W. | 2500x2700 kg |



| UNIVERSAL HORIZONTAL/VERTICAL MILLING MACHINE | |
|---|--|
| SPECIFICATIONS | XZ6350A |
| MAX.DRILLING DIA. | 50(2") |
| SDTNDLE TAPER | MT4; ISO 30 |
| MAX. HORIZONTAL MILLING DIA. | 100 |
| MAX. VERTICAL MILLING DIA. | 25 |
| MAX. BORING DIA. | 120 |
| SPINDLE SPEEDS (R.P.M.) | VERTICAL 115-1750(8) HORIZONTAL 40-1300(12) |
| DISTANCE BETWEEN SPINDLE AND TABLE | 150-650 |
| SPINDLE TRAVEL | 120 |
| TABLE TRAVEL | 600X300 |
| TABLE SIZE | 1250X320 |
| MOTOR POWER (KW) | VERTICAL 0.8/1.5 HORIZONTAL 2.2 |
| NET/GROSS WEIGHT (KGS) | 1400/1550 |



ŞANZUMANLI VE RADYAL MATKAPLAR

Z5050



| İtem | Model | Z3050 X 16/A1 |
|-----------------------------|-------|----------------|
| Max. delpe çapı | | 50 |
| Mil arası mesafe | | 1600 |
| Colen arası mesafe | | 350 |
| Mil Burnu | | 1220 |
| Ve taban table arası mesafe | | 320 |
| Mil Hareketi | | 315 |
| Mil taperi | | 5 |
| Mil hız aralığı | | 25-2000 |
| Mil hızı numaraları | | 16 |
| Mil besleme aralığı | | 0.04-3.20 |
| Mil besleme sayısı | | 16 |
| Tabla ebatları | | 500x630 |
| Mil kafa girişi | | 1250 |
| Ara motor gücü | | 4 |
| Net ağırlık | | 3500 |
| Ebatlar | | 2500x1070x2840 |

| İtem | Model | Z5032V | Z5035A | Z5040A | Z5045A |
|---|-------------------|-------------------|-----------------|--------------------|--------------------|
| Max. drilling capacity (mm) | | 32 | 35 | 40 | 50 |
| Max. topping capacity (mm) | | | M20 | M24 | M24 |
| Disanec from spindle axiz to generating line of column (mm) | | 290 | 330 | 360 | 360 |
| Max. distance from spindle nose to working surface of work table (mm) | | 790 | 610 | 600 | 600 |
| Max. distance from spindle nose to working surface of base plate (mm) | | 1300 | 1150 | 1215 | 1205 |
| Max. traverse of spindle (mm) | | 115 | 150 | 180 | 180 |
| Max. adjustment of work table and table rest (mm) | | 790 | 540 | 560 | 525 |
| Swivel of table and table rest | | ±45° | ±45° | ±45° | ±45° |
| Spindle bore taper (Morese) | | 3 | 4 | 4 | 4 |
| Spindle speed steps | | | 12 | 12 | 12 |
| Spindle speed (r/min) | | L55-350 H350-2300 | 70-2600 | 42-2050 | 42-1865 |
| Spindle feed steps | | | 3 | 4 | 4 |
| Spindle feed range (mm/r) | | | 0.1,0.2,0.3 | 0.07,0.15,0.26,0.4 | 0.07,0.15,0.26,0.4 |
| Column diameter (mm) | | Ø120 | Ø140 | Ø160 | Ø170 |
| Effective working area of table (LxW) | | 320x320 | 424x424 | 370x500 | 370x500 |
| Effective working area of base plate (mm) | | 380x380 | 420x380 | 460x450 | 460x450 |
| Dimension of T-slot of table and base plate (mm) | | 2-12 | 2-14 2-16 | 2-14 2-16 | 2-14 2-16 |
| 3-phase two-speed Ac motor | Power (kw) | 1.1 | 1.5/2.2 | 2.2/2.8 | 2.2/2.8 |
| | Voltage (V) | 380,220,420,440 | 220,380,420,440 | 220,380,420,440 | 220,380,420,440 |
| 3-phase pump moutor | (r/min) | 1440 | 960/1450 | 960/1450 | 960/1450 |
| | Power (kw) | 0.06 | 0.09 | 0.09 | 0.09 |
| Package dimension (LxWxH) | Voltage (V) | 380,220,420,440 | 220,380,420,440 | 2230,380,420,440 | 220,380,420,440 |
| | Flow rate (L/min) | 4 | 6 | 6 | 6 |
| Net / gross weight (kg) | | 90x59x198 | 310/360 | 70x115x215 | 740/800 |
| | | | 670/730 | | 800/600 |

PİSTONLU VE VİDALI KOMPRESÖR VE PRESLER



VİDALI HAVA KOMPRESÖRLERİ

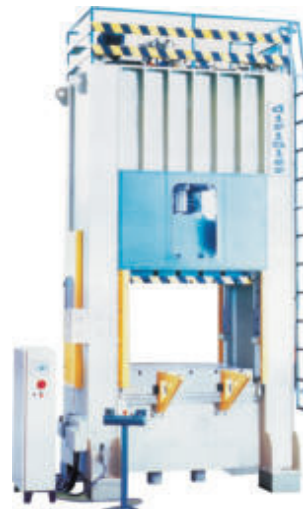
| TİPLER | 7 bar | 10 bar | 13 bar | kW | Ses Seviyesi | HAVA ÇIKIŞI | ÖLÇÜLER (ExBxY)mm | AĞIRLIK |
|----------|-------|--------|--------|---------|--------------|-------------|-------------------|---------|
| ATV-3 | 0.42 | 0.35 | 0.29 | 3/4 | 63 | 1/2" | 500x750x620 | 95 |
| ATV-4 | 0.58 | 0.46 | 0.40 | 4/5,5 | 64 | 1/2" | 500x750x620 | 105 |
| ATV-5.5 | 0.80 | 0.68 | 0.57 | 5,5/7,5 | 65 | 3/4" | 643x818x865 | 200 |
| ATV-7.5 | 1.10 | 0.90 | 0.70 | 7,5/10 | 67 | 3/4" | 643x818x865 | 205 |
| ATV-11 | 1.70 | 1.30 | 1.10 | 11/15 | 69 | 3/4" | 643x818x865 | 250 |
| ATV-15 | 2.50 | 2.10 | 1.75 | 15/20 | 71 | 1" | 740x990x1225 | 335 |
| ATV-18.5 | 3.10 | 2.60 | 2.20 | 18,5/25 | 72 | 1" | 740x990x1225 | 340 |
| ATV-22 | 3.60 | 3.10 | 2.75 | 22/30 | 72 | 1" | 740x990x1225 | 345 |
| ATV-30 | 5.10 | 4.30 | 3.85 | 30/40 | 73 | 1 1/4" | 850x1512x1560 | 648 |
| ATV-37 | 6.30 | 5.20 | 4.30 | 37/50 | 74 | 1 1/2" | 895x1330x1700 | 810 |
| ATV-45 | 7.00 | 6.20 | 5.70 | 45/60 | 74 | 1 1/2" | 895x1330x1700 | 181 |



PİSTONLU HAVA KOMPRESÖRLERİ



EKSANTRİK VE HİDROLİK PRESLER



VA-500 / VF-500 YÜKSEK KAPASİTE

VA Serisi



OPSİYON

12000 Devir/dakika VA 500 Modeli içindir.

| Teknik Özellikler | | | | |
|----------------------------|--------------|-----------|-----------|-----------|
| Model | Birim | VA-500 | VA-500L3 | VF-500 |
| İşmili | | | | |
| Devir | devir/dakika | 8000 | 12000 | 15000 |
| Motor Gücü | | 10HP | 10HP | 10HP |
| İşmili Koniği | | BT-40 | BT-40 | BT-30 |
| Tabla | | | | |
| Ebatlar | (mm) | 700x400 | 700x400 | 700x400 |
| Max.Yük | (kg) | 300 | 300 | 700 |
| Hareketler | | | | |
| X Eksen | (mm) | 500 | 500 | 500 |
| Y Eksen | (mm) | 400 | 400 | 400 |
| Z Eksen | (mm) | 450 | 450 | 450 |
| X-Y Eksen Boştaki ilerleme | (mm/dk.) | 16000 | 48000 | 48000 |
| Z Eksen | (mm/dk.) | 16000 | 32000 | 48000 |
| Kesme Hızı | (mm/dk.) | 10000 | 10000 | 15000 |
| Genel Özellikler | | | | |
| Ağırlık | (kg) | 3800 | 3500 | 3500 |
| Yerleşim Alanı | (mm) | 1950X2140 | 1950X2350 | 1950X3350 |

HT-500A YÜKSEK KAPASİTE

HT Serisi



Teknik Özellikler

| Model | Birim | HT-500 |
|-------------------------------|-------|---|
| Ölçüler | | |
| x eksen | | 800mm |
| y eksen | | 800mm |
| z eksen | | 800mm |
| Hız m/dk | | |
| Boştaki hız x/y/z | | 60/60/60 |
| Kesme Hızı | | 10-30000mm/dk |
| Spindle | | |
| Spindle Tabla Mer.Mesafesi | | 150-950mm |
| Spindle Mer. ile Palet yüzeyi | | 120-920mm |
| İş Mili Koniği | | ISO40(BT 40) |
| Spindle Türü ve Max. Devir | | |
| Bultın motor Spindle yapısı | | 15.0000rpm |
| Fener Mili Çapı | | 70mm |
| Tabla | | |
| Palet Ölçüleri | | |
| Uzunluk Eksen | | 500x500mm |
| Max. Tabla Yükleme kapasitesi | | 600kg |
| Min. İndexleme Derece | | 0.001° |
| Yüzey Konfirigasyonu | | M16x2x33L |
| Max. Dönüş Hızı | | 16.6dk ⁻¹ (1500dk ⁻¹) |
| Tabla Kitleme Gücü | | 350kg-m |
| Palet Kitleme Gücü | | 2000kg |
| İndexleme Zamanı | | 25sn |
| Tekrarlama Hassasiyeti | | ± 2 sn |
| Hassasiyet | | |
| Palet Değiştirme Süresi | | 3.5sn |
| Pozisyonlama Hassasiyeti | | ±0.004mm/300mm |
| Tekrarlama Hassasiyeti | | ±0.003mm |
| Motor | | |
| Fenerleme Motor Gücü | | Fanuca a B112L/15000i (18.5kW (cont.)/22kW (15min)) |
| Servo Motor | | X,Y,Z a40/4000is (5.5kW) |
| Aksesuar | | |
| Standart Kontrol Ünitesi | | Fanuc 18ı-MB (7.2" LCD Ekran) |
| Hava Miktarı | | 5-8 kg/cm ² |
| Motor Gücü | | 45kW |
| Makina Ölçüleri WxDxH | | 300x290x480cm |
| Makina Ağırlığı | | 11.000 kg |

VTJ-SERİSİ AĞIR TIP İŞLEME



OPSİYON

- * Fanuc Oi-MD Kontrol Ünitesi
- * Max Tork 680 N/KG
- * Kalıpcı Modülü
- * Manuel Guide
- * Palet Tip Talaş Konveyörü

Teknik Özellikler

| Model | Birim | VTJ-1480 | VTJ-1680 | VTJ-1880 |
|-------------------------|--------------|----------|-------------|----------|
| İşmili | | | | |
| Devir | devir/dakika | | 6000 | |
| Motor Gücü | | | 22Kv | |
| İşmili Koniği | | | BT 50 | |
| Tabla | | | | |
| Tabla Ebadı | (mm) | | 1700x800 | |
| Max. Yük | (kg) | | 2000 Kg | |
| Hareketler | | | | |
| X/Y/Z | (mm/dk) | 1480 | 1680 | 1880 |
| Kesme Hızı | (mm/dk) | 830 | 800 | 800 |
| Vidalı Mil | (mm) | 800 | 800 | 800 |
| Genel Özellikler | | | | |
| Takım Sayısı | | | 24 | |
| Maks. Takım Ağırlığı | (kg) | | 15 | |
| Maks. Takım Ölçüsü | (mm) | | 125 | |
| Kontrol Ünitesi | | | | |
| Tipi | | | FANUC Oİ-MF | |

VP-1100 / VP-1500

EKSTRA HASSAS ve HIZLI İŞLEME

VP Serisi**OPSİYON**

* 10000 Devir/dakika

| Teknik Özellikler | | | |
|---------------------------|--------------|----------------|----------------|
| Model | Birim | VP-1100 | VP-1500 |
| İşmili | | | |
| Devir | devir/dakika | 8000 | 8000 |
| Motor Gücü | | 15HP | 15HP |
| İşmili Koniği | | BT-40 | BT-40 |
| Tabla | | | |
| Ebatlar | (mm) | 1200x600 | 1600x600 |
| Max. Yük | (kg) | 1000 | 1250 |
| Hareketler | | | |
| X Ekseni | (mm) | 1100 | 1500 |
| Y Ekseni | (mm) | 600 | 600 |
| Z Ekseni | (mm) | 600 | 600 |
| X&Y Ekseni Boşta İlerleme | (mm/dk) | 20000 | 20000 |
| Z Ekseni | (mm/dk) | 20000 | 20000 |
| Kesme Hızı | (mm/dk) | 10000 | 10000 |
| Genel Özellikler | | | |
| Ağırlık | (kg) | 8800 | 10500 |
| Yerleşim Alanı | (mm) | 3300X3100 | 3800X3100 |

VTH-855L3 VTH-1055L3

DİK İŞLEME MERKEZİ
VTH Serisi



Teknik Özellikler

| Model | Birim | VTH-855L3 | VTH-1055L3 |
|---------------------------|-------|---------------------|------------------|
| X Ekseni | | 850mm | 1020mm |
| Y Ekseni | | 550mm | |
| Z Ekseni | | 510mm | |
| X,Y Eksene Boşta İlerleme | | 48000mm/dk | |
| Z Eksene Boşta İlerleme | | 30000mm/dk | |
| Kesme İlerlemesi | | 10000mm/dk | |
| Tablo Boyutu | | 1000x530x1200 | |
| Maks. İş Parçası Ağırlığı | | 500kg | 600kg |
| T-Kanal Sayısı | | 5 | |
| T-Kanal Genişliği | | 100mm | 18mm |
| Spindle Konik | | BT 40 | |
| Spindle Motor 15HP | | 15HP | |
| Spindle devri | | 8000 rpm | |
| ATC | | 24 | |
| Maks. Takım Ağırlığı | | 7 kg | |
| Maks. Takım Çapı | | 80mm | 125mm |
| Maks. Takım Uzunluğu | | 350mm | |
| Makina Ağırlığı | | 5500kg | 6500kg |
| Makina Ölçüleri | | 2400x2285x2800mm | 2400x2285x2800mm |
| Konumlama Hassasiyeti | | 0.004mm | 300mm |
| Takrarlanabilir Doğruluk | | ±0.003mm | |
| Gerekli Hava Basıncı | | 6kg/cm ² | |

VH-650/850/1010 EKONOMİK İŞLEME

VH Serisi



OPSİYON

- * Built In İşmili 15000/20000 Devir (25HP)
- * 10000 Devirli İşmili

| Teknik Özellikler | | | | |
|-----------------------------|--------------|----------------|----------------|-----------|
| Model | Birim | VH-650 | VH-850 | VH-1010 |
| İşmili | | | | |
| Devir | devir/dakika | 8000 | 8000 | 8000 |
| Motor Gücü | | 10 HP | 15 HP | 15 HP |
| İşmili Koniği | | BT-40 (CAT-40) | BT-40 (CAT-40) | BT-40 |
| Tabla | | | | |
| Ebatlar | (mm) | 800x450 | 1000x450 | 1500x450 |
| Max. Yük | (kg) | 400 | 450 | 700 |
| Hareketler | | | | |
| X Ekseni | (mm) | 650 | 850 | 1010 |
| Y Ekseni | (mm) | 500 | 500 | 500 |
| Y Ekseni | (mm) | 520 | 520 | 520 |
| X-Y Ekseni Boştaki İlerleme | (mm/dk.) | 20000 | 20000 | 20000 |
| Z Ekseni | (mm/dk.) | 20000 | 20000 | 20000 |
| Kesme Hızı | (mm/dk.) | 10000 | 10000 | 10000 |
| Genel Özellikler | | | | |
| Ağırlık | (kg) | 5000 | 5200 | 5400 |
| Yerleşim Alanı | (mm) | 2200x2600 | 2500x2600 | 2900x2600 |

ÇİFT PALETLİ DİK İŞLEM

WTW Serisi

VTW-540

MACHINE SPECIFICATION:

| | |
|--------------------------|--|
| SPINDLE SPEED | 15,000 rpm / 20,000 rpm / 24,000 rpm |
| TOOL CAPACITY | 24+1 tools |
| X / Y / Z STROKE | 500 x 400 x 350 mm |
| X / Y / Z RAPID FEEDRATE | 48 / 48 / 48 M/min (opt. 60 / 60 / 60 M/min) |
| TOOL SHANK | BT30 |
| TOOL CHANGE TIME | 1.2 sec |
| PALLET CHANGE TIME | 5 sec |



VTW-755

MACHINE SPECIFICATION:

| | |
|--------------------------|---|
| SPINDLE SPEED | 12,000 / 15,000 rpm |
| TOOL CAPACITY | 30+1 tools |
| X / Y / Z STROKE | 750 x 550 x 500 mm |
| X / Y / Z RAPID FEEDRATE | 48 / 48 / 48 M/min(opt. 60 / 60 / 48 M/min) |
| TOOL SHANK | BBT40 |
| TOOL CHANGE TIME | 1.8 sec |
| PALLET CHANGE TIME | 7 sec |



HF-380 / HF-400

HF Serisi

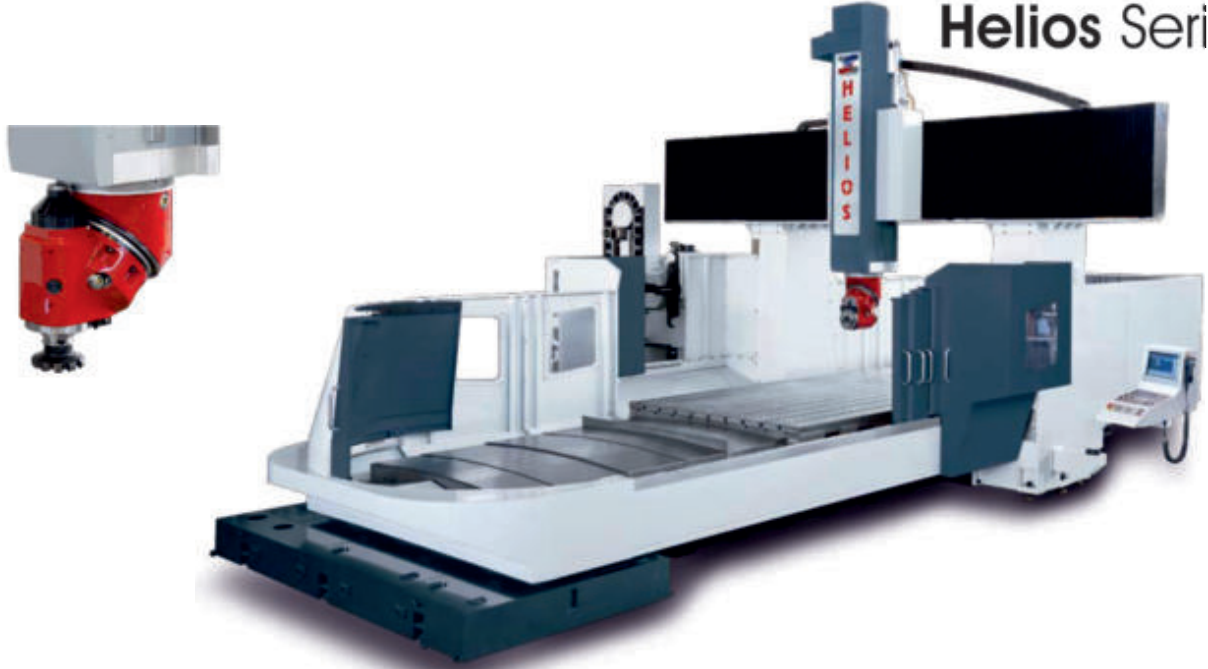


Teknik Özellikler

| Model | Birim | HF-380 A | HF-400 |
|---------------------------|-------|-------------------|-------------------|
| X Ekseni | | 500mm | 600mm |
| Y Ekseni | | 420mm | 500mm |
| Z Ekseni | | 380mm | 500mm |
| Tablo Merkeze Uzaklığı | | 70 - 450mm | |
| Boşta İlerleme | | 48 / 48 / 48 m/dk | 60 / 60 / 60 m/dk |
| Kesme İlerlemesi | | 20 m/dk | 20 m/dk |
| Ballscrew Çap & Pitch | | D32xP16 | 70mm |
| Tabla Boyutu | | 380x380mm | 400x400mm |
| Max. İş Parçası Ağırlığı | | 350 kg | 400 kg |
| Min. Endeks Derecesi | | 0.001 derece | 0.001 derece |
| Tablo Dönem Zamanı | | 3.6 sn/dev. | 3.5 sn |
| Spindle Mil Konik | | BT - 40 | BT - 40 |
| Spindle Mili Motor | | | |
| İş Mili Hızı | | 20/HP | 7.5/11Kw |
| ATC | | 12000rpm | 8.000 rpm |
| Aracı Numarası | | 16 takım kol tipi | 32 takım kol tipi |
| Maks. Takım Ağırlığı | | 7 Kg | |
| Maks. Takım Çapı | | 76/12mm | |
| Maks. Takım Uzunluğu | | 250mm | |
| Aracı Değişim Süresi (TT) | | 2 sn | 1.8 sn |
| Makina Ağırlığı | | 3500kg | 5500 kg |
| Makina Ölçüleri (GxDxY) | | 1500x2500x2450mm | 2200x2800x2490mm |
| Konumlama Hassasiyeti | | 0.004/300mm | |
| Takrarlanabilir Doğruluk | | ±0.003mm | |
| Gerekli Hava Basıncı | | 6kg/cm 2z | |
| Palet Adedi | | 1 | 2 |
| Palet Değişirme Zamanı | | | 11 sn |

VTG Serisi


| Model | | VTG-1065L | VTG-1165L | VTG-1365L | VTG-1565L |
|---|--------|-----------------|--------------------------|-----------------|---------------|
| Travel and machining range | | | | | |
| X-axis travel | mm | 1020 | 1150 | 1300 | 1500 |
| Y-axis travel | mm | | | 650 | |
| Z-axis travel | mm | | | 620 | |
| Spindle nose to table surface | mm | | 100~720 | | |
| Spindle center to front column guide surface | mm | | 765 | | |
| Table | | | | | |
| Table size | mm | 1100×650 | 1250×650 | 1400×650 | 1600×650 |
| Maximum load permissible | kg | 700 | 700 | 1000 | 1000 |
| T slot (width x slot no. x pitch) | | | 18×5×100mm | | |
| Headstock | | | | | |
| Spindle taper | | | BT-40 | | |
| Spindle speed | rpm | | 8000/10000 | | |
| Spindle motor | | | 15/18 | | |
| Axis feedrate | | | | | |
| Rapid feedrate (X/Y/Z) | mm/min | | 48000×48000×48000 | | |
| Cutting feedrate | mm/min | | 10000 | | |
| Ball screw dimension (X/Y/Z) | mm | Ø50 / Ø50 / Ø50 | | Ø50 / Ø50 / Ø50 | |
| Guide way type | mm | | Ø50 | | |
| Automatic tool change | | | | | |
| Arm type ATC system | | | Arm type cam tool change | | |
| Pull stud | | | | | |
| Tool change time | | | | | |
| Tool number | | | 24T | | |
| Maximum tool diameter (with adjacent tool/no adjacent tool) | mm | | Ø125 / Ø200 | | |
| Maximum tool length | mm | | 300 | | |
| Maximum tool weight | kg | | 15 | | |
| Accuracy VDI 3441(JIS B6336-2) (JIS B6338) | | | | | |
| Positioning accuracy | | | P0.014 mm (±0.004/300mm) | | |
| Repeatability accuracy | | | PS 0.010 (±0.003mm) | | |
| General data | | | | | |
| Coolant tank capacity | ℓ | | 300 (240-80%) | | 300 (240-80%) |
| Cutting pump motor | | | 750W / 60HZ | | |
| Air pressure capacity | | | 6kgf / cm ² | | |
| Floor space (H) | mm | | 2727 | | |
| Floor space (W×D) | mm | 5250×3500 | 5250×3500 | 5600×3500 | 6000×3500 |
| Machine weight | kg | 6700 | 7200 | 7700 | 8200 |

Helios Serisi


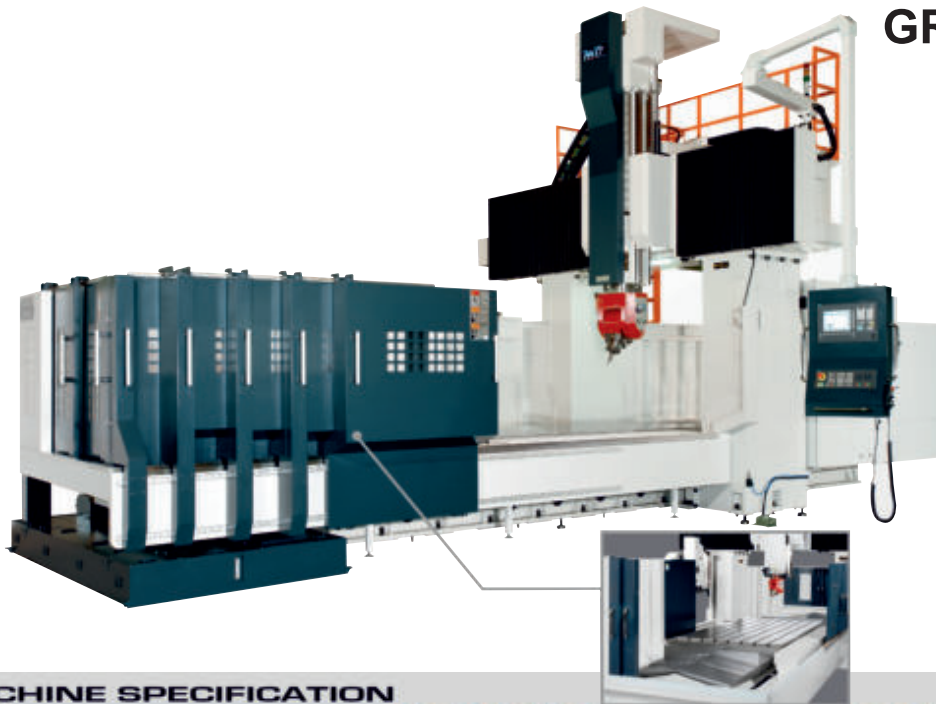
| | | |
|--------------------------------------|-------|---|
| DBC strokes | mm | 2000 - 2500 - 3000 |
| X axis | mm | 3000 - 6200 |
| Y axis | mm | 3000 - 3500 - 4000 |
| Z axis | mm | 1000 |
| table | | |
| table size | mm | X : 3000 - 6000 Y : 1600 - 2000 - 2500 |
| max load | kgs | 8000 - 25000 |
| min distance spindle nose vert/table | mm | 200 |
| auto index head mod. 2i | | |
| index position / min index | | 2 x 144 x 2.5° |
| spindle taper | | BT-50 (DIN-50) |
| spindle motor power | kW | 32(S1) / 37(S6) |
| spindle motor torque | Nm | 580 (S1) / 670 (S6) |
| max spindle speed | rpm | 4000 |
| rapid feed rate | m/min | 20 |
| auto tool changer | | |
| tool storage capacity | T | 30 - 40 - 60 |
| max tool diameter/with gap | mm | 120/220 |
| max tool lenght | mm | 350 |
| max tool weight | kgs | 15 |
| gross weight (table 2000 x 4000 mm) | kgs | 36000 |



| Model | Unit | FG-2215L/LG | FG-2715L/LG | FG-3215L/LG | FG-4215L/LG | FG-2220L/LG | FG-2720L/LG | FG-3220L/LG | FG-4220L/LG |
|------------------------------------|--------------------|--|-------------|----------------------------|-------------|---|-------------|-----------------------|-------------|
| Travel | | | | | | | | | |
| Kolonlar arası uzaklık | mm | 1500 | | | | 2000 | | | |
| x eksenli hareket | mm | 2200 | 2700 | 3200 | 4200 | 2200 | 2700 | 3200 | 4200 |
| y eksenli hareket | mm | 1500 | | | | 2000 | | | |
| z eksenli hareket | mm | 760 | | | | 1000 | | | |
| Spindle-Tabla mesafesi(L serisi) | mm | Bt40 : 200 - 960. Bt50 & FANUC Built in : 105 ~ 865 | | | | Bt40 : 165 - 1165. Bt50 : 150 ~ 1150 | | | |
| (LG serisi) | mm | 225 ~ 985 | | 215 ~ 975 | | 225 ~ 1225 | | | |
| Work Table | | | | | | | | | |
| Boyut | mm | 2000 x 1200 | 2500 x 1200 | 3200 x 1200 | 4200x1200 | 2000x1600 | 2500x1600 | 3000x1600 | 4000x1600 |
| T-slot(Quantity x Width x Pitch) | | 5x22mmx200mm + 2x22mmx100mm | | | | 7x22mmx200mm | | | |
| Max. Yük | kg | 4000 | 5000 | 6000 | 8000 | 8000 | 9000 | 10000 | 12000 |
| Spindle | | | | | | | | | |
| Spindle Koniği (L serisi) | | Bt40 (Opt.: HSK A63 / Bt50 / DIN40 / DIN 50 Bt40 (Opt.:DIN50) | | | | Bt40 (Opt.: Bt50 / DIN40 / DIN 50 Bt40 (Opt.:DIN50) | | | |
| (LG serisi) | | | | | | | | | |
| Spindle Devri (L serisi) | rpm | Built-in Bt40: 12000 (Opt.: 15000 / 20000) Bt50: 8000 (Opt.: 10000) | | | | Built-in Bt40: 12000 (Opt.: 15000) Bt50: 8000 (Opt.: 10000) | | | |
| (LG serisi) | rpm | 2 Steps High-Low speed gear head: 6000 (Opt.: 4500) | | | | 2 Steps High-Low speed gear head: 6000 (Opt.: 4500) | | | |
| Spindle Çapı (L serisi) | rpm | Bt40 & HSK A63 : 70, Bt50 : 100 | | | | Bt40 : 70, Bt50 : 100 | | | |
| (LG serisi) | rpm | 100 | | | | 100 | | | |
| Rapid Feed | | | | | | | | | |
| X axis | mm/min | 20000 | 15000 | | | 20000 | 15000 | | |
| Y/Z axis | mm/min | 20000 / 15000 | | | | 20000 / 10000 | | | |
| Cutting feed (X/Y) | mm/min | 1 - 10000 | | | | 1 - 10000 | | 1 - 7500 | |
| Ballscrew Dia. & Pitch (X/Y/Z) | mm | ø 50/45/45, P16/P10/P10 | | ø 63/45/45, P30/P10/P10 | | ø 63/63/50, P25/20/10 | | ø 80/63/50, P25/20/10 | |
| Ballscrew transmission way (X/Y/Z) | | Direct/Direct/Belt driven | | Belt/Direct/Belt driven | | Gear/Direct/Belt driven | | | |
| ATC | | | | | | | | | |
| Takım Sayısı | pcs | 32(Opt.:40) | | | | 32 (Opt.: 40) | | | |
| Max. tool dia. | mm | Bt40 & HSK A63 : 75 / 125, Bt50 : 125 / 215 | | | | Bt40 & HSK A63 : 75 / 125, Bt50 : 125 / 215 | | | |
| Max. Takım uzunluğu | mm | Bt40 & HSK A63 : 250, Bt50 : 350 | | | | Bt40 & HSK A63 : 250, Bt50 : 350 | | | |
| Max. Takım ağırlığı | kg | Bt40 & HSK A63 : 7, Bt50 : 20 | | | | Bt40 & HSK A63 : 7, Bt50 : 20 | | | |
| Pull stud. spec. | | Bt40 : MAS403 P40T-1, Bt50 : MAS403 P50T-1 | | | | Bt40 : MAS403 P40T-1, Bt50 : MAS403 P50T-1 | | | |
| Motor | | | | | | | | | |
| Spindle Motor (L serisi) | kW | Bt40 & HSK A63 : 11/18.5 (Cont./10min) (Fanuc øB112S) Bt40 18.5/22 (Cont./25%) (Fanuc øB112L) | | | | 18.5/22 (Cont./25%) (Fanuc øB112L) | | | |
| (LG serisi) | kW | 18.5/22 (Cont./30min) (Fanuc A18/7000I) | | | | 18.5/22 (Cont./30min) (Fanuc A18/7000I) | | | |
| Max. Tork (L serisi) | Nm | Bt40 & HSK A63 : 60, Bt50 : 118 | | | | 118 | | | |
| (LG serisi) | Nm | 6000rpm : 584(Opt.: 4500rpm : 752) | | | | 6000rpm : 584(Opt.: 4500rpm : 752) | | | |
| Servo Motor X/Y/Z (FANUC) | kW | 7/4/4/(A30/A22/A22B) | | 6/4/4/(A40/A22/A22B) | | 7/7/7/(A30/A30/A30B) | | | |
| Coolant pump | kW | 0,75 | | | | 0,75 | | | |
| Accuracy | | | | | | | | | |
| Pozisyon Hassasiyeti (JIS 6338) | mm | ±0.005/300 mm, ±0.015 Total length | | | | ±0.005/300 mm, ±0.015 Total length | | | |
| Pozisyon Hassasiyeti (VDI 3441) | mm | P 0.020 | P 0.0025 | | P 0.030 | P 0.020 | P 0.025 | | P 0.030 |
| Dairesellik (JIS 6338) | mm | ±0.003 | | | | ±0.003 | | | |
| Dairesellik (VDI 3441) | mm | Ps 0.015 | Ps 0.020 | | Ps 0.025 | Ps 0.015 | Ps 0.020 | | Ps 0.025 |
| Other | | | | | | | | | |
| Güç kapasitesi | | 50kVA, 220V, 3 phase 50/60 | | | | 50kVA, 220V, 3 phase 50/60 | | | |
| Hava miktarı | kg/cm ² | 5 | | | | 5 | | | |
| Coolant tank capacity | liter | 380 | 5 | | 10260 | 550 | | 10500 | |
| Guide way in each axis | | X Linear guide way + Y&Z Box way | | | | X: 2pcs of roller type Linear guide way, Y: 2pcs of roller type Linear guide way, Z: Box way | | | |
| Makina boyu | mm | 6230 | 7230 | 8230 | 10260 | 6300 | 7300 | 8300 | 10500 |
| Makina eni | mm | 4430 x 3975 | | | | 4950 x 4700 | | | |
| Makina ağırlığı | kg | 13000 | 19000 | 22000 | 26000 | 23000 | 25000 | 28000 | 33000 |



| Model | Unit | FG-3225L/LG | FG-4225L/LG | FG-5225L/LG | FG-6225L/LG | FG-4231L/LG | FG-5231L/LG | FG-6231L/LG |
|--|--------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|---|-----------------------|
| Travel | | | | | | | | |
| Distance between columns | mm | 2500 | | | | | 3100 | |
| X axis | mm | 3200 | 4200 | 5200 | 6200 | 4200 | 5200 | 6200 |
| Y axis | mm | 2500 | | | | | 2100 | |
| Z axis | mm | 1000 | | | | | 1000 | |
| Spindle nose to table surface (L series) | mm | Bt40 : 165 - 1165, Bt50 : 150 ~ 1150 | | | | | 150 ~ 1150 | |
| (L series) | mm | 225 ~ 1225 | | | | | 225 ~ 1225 | |
| Work Table | | | | | | | | |
| Size | mm | 3000x2000 | 4000x2000 | 5000x2000 | 6000x2000 | 4000x2500 | 5000x2500 | 6000x2500 |
| T-slot(Quantity x Width x Pitch) | | 9x22mmx200mm | | | | | 13x22mmx200mm | |
| Max. permissible loading | kg | 12000 | 15000 | 18000 | 20000 | 15000 | 18000 | 20000 |
| Spindle | | | | | | | | |
| Spindle taper (L series) | | Bt40 (Opt.: Bt50 / DIN40 / DIN 50) | | | | | Bt40 (Opt.:DIN50) | |
| (L series) | | Bt40 (Opt.:DIN50) | | | | | Bt40 (Opt.:DIN50) | |
| Spindle speed (L series) | rpm | Built-in Bt40: 12000 (Opt.: 15000) | | | | | Built-in 8000 (Opt.: 10000) | |
| (L series) | rpm | Bt50: 8000 (Opt.: 10000) | | | | | 2 Steps High-Low speed gear head: 6000 (Opt.: 4500) | |
| Spindle diameter (L series) | mm | Bt40 : 70, Bt50 : 100 | | | | | 100 | |
| (L series) | mm | 100 | | | | | 100 | |
| Rapid Feed | | | | | | | | |
| X axis | mm/min | 15000 | 12000 | 10000 | 7500 | 12000 | 10000 | 7500 |
| Y/Z axis | mm/min | 15000 / 10000 | | | | | 12000 / 10000 | |
| Cutting feed (X/Y) | mm/min | 1 - 7500 | | | 1-5000 | | 1-7500 | 1-5000 |
| Ballscrew Dia. & Pitch (X/Y/Z) | mm | ø 63/63/50, P25/20/10 | ø 80/63/50, P25/20/10 | ø 80/63/50, P30/20/10 | ø 80/63/50, P30/20/10 | ø 80/63/50, P25/20/10 | ø 80/63/50, P30/20/10 | ø 80/63/50, P30/20/10 |
| Ballscrew transmission way (X/Y/Z) | | Gear/Direct/Belt driven | | | | | Gear/Belt/Belt driven | |
| ATC | | | | | | | | |
| Tool number | pcs | 32 (Opt.:40) | | | | | 32 (Opt.:40) | |
| Max. tool dia / Without adjacent tool | mm | Bt40 & HSK A63 : 75 / 125, Bt50 : 125 / 215 | | | | | 125 / 215 | |
| Max. tool length | mm | Bt40 & HSK A63 : 250, Bt50 : 350 | | | | | 350 | |
| Max. tool weight | kg | Bt40 & HSK A63 : 7, Bt50 : 20 | | | | | 20 | |
| Pull stud. spec. | | Bt40 : MAS403 P40T-1, Bt50 : MAS403 P50T-1 | | | | | MAS403 P50T-1 (Opt.:DIN69872 Form A) | |
| Motor | | | | | | | | |
| Spindle Motor (L series) | kW | 18,5/22 (Cont./25%) (Fanuc αB112L) | | | | | 18,5/22 (Cont./25%) (Fanuc αB112L) | |
| (L series) | kW | 18,5/22 (Cont./30min) (Fanuc A18/7000I) | | | | | 18,5/22 (Cont./30min) (Fanuc A18/7000I) | |
| Max. torque (L series) | Nm | 118 | | | | | 118 | |
| (L series) | Nm | 6000rpm : 564(Opt.: 4500rpm : 752) | | | | | 6000rpm : 564(Opt.: 4500rpm : 752) | |
| Servo Motor X/Y/Z (FANUC) | kW | 7/7/7(A30/A30/A30B) | | | | | 6/7/7(A40/A30/A30B) | |
| Coolant pump | kW | 0,75 | | | | | 0,75 | |
| Accuracy | | | | | | | | |
| Positioning (JIS 6338) | mm | ±0.005/300 mm, ±0.015 Total length | | | | | ±0.005/300 mm, ±0.015 Total length | |
| Positioning (VDI 3441) | mm | P 0.025 | P 0.030 | P 0.040 | P 0.050 | P 0.025 | P 0.030 | P 0.040 |
| Repeatability (JIS 6338) | mm | | | | | | | |
| Repeatability (VDI 3441) | mm | Ps 0.020 | Ps 0.025 | Ps 0.030 | Ps 0.035 | Ps 0.020 | Ps 0.025 | Ps 0.030 |
| Other | | | | | | | | |
| Power capacity | | 65kVA, 220V, 3 phase 50/60 | | | | | 65kVA, 220V, 3 phase 50/60 | |
| Pneumatic pressure required | kg/cm ² | 5 | | | | | 5 | |
| Coolant tank capacity | liter | 660 | | | | | 750 | |
| Guide way in each axis | | X: 2pcs of roller type Linear guide way, Y: 2pcs of roller type Linear guide way, Z: Box way | | | | | X: 4pcs of roller type Linear guide way, Y: 2pcs of roller type Linear guide way Z: Box way | |
| Machine size (Length) | mm | 8365 | 10500 | 12550 | 14750 | 11000 | 13000 | 15000 |
| Machine size (Width x Height) | mm | 5450 x 4700 | | | | | 6050 x 4800 | |
| Machine weight | kg | 33000 | 38000 | 45000 | 52000 | 43000 | 50000 | 57000 |

GRANDER Serisi

MACHINE SPECIFICATION

| MODEL | | FG-2725-5A | FG-3225-5A | FG-4225-5A | FG-3230-5A | FG-4230-5A | FG-5230-5A |
|---|--------------------|----------------------------------|--------------|---|-----------------------------------|--------------|------------|
| Travel | | | | | | | |
| X-axis | mm | 2700 | 3200 | 4200 | 3200 | 4200 | 5200 |
| Y-axis | mm | | 2500 | | | 3000 | |
| Z-axis | mm | | | | 1000 | | |
| Spindle nose to table surface | mm | | | 120 ~ 1120 | | | |
| Distance from spindle 90° centerline to table surface | mm | | | 473 ~ 1473 | | | |
| Distance between two columns table | mm | | 2000 | | | 2500 | |
| Table size (X direction) | mm | 2500 | 3000 | 4000 | 3000 | 4000 | 5000 |
| Table size (Y direction) | mm | | 1600 | | | 2000 | |
| T slot size (quantity x size x distance) | mm | | 7×22mm×200mm | | | 9×22mm×200mm | |
| Max. table load | kg | 9000 | 10000 | 12000 | 12000 | 15000 | 18000 |
| Spindle | | | | | | | |
| Spindle motor | kw | | | 35/49 (S1/S6-40%) | | | |
| Spindle speed | rpm | | | 12000 | | | |
| Spindle taper | | | | HSK-A63 | | | |
| Spindle maximum torque | Nm | | | 120/170 (S1/S6-40%) | | | |
| Spindle diameter | mm | | | 70 | | | |
| head | | | | | | | |
| B/C axis travel | deg. | | | B= +120° ~ -95°, C= ±200° | | | |
| B/C axis resolution | deg. | | | 0.001° (Continuously) | | | |
| B axis working torque (S1/S6) | Nm | | | 450 / 630 | | | |
| C axis working torque (S1/S6) | Nm | | | 450 / 700 | | | |
| B/C clamping torque | Nm | | | 3750 / 2700 | | | |
| Feedrate | | | | | | | |
| Rapid feedrate X / Y / Z | M/min | 20/20/12 | | 15/15/12 | | 15/15/12 | |
| B swing speed/C rotation speed | deg./sec. | | | B=50 , C=180 | | | |
| Cutting speed (X, Y, Z) | mm/min | | | 1-10000 | | | |
| Tool magazine | | | | | | | |
| Tool number | pcs | | | 32 (Opt. 40 , 60) | | | |
| Max. tool diameter/ w./w.o. adjacent tool | mm | | | Ø80 / Ø150 | | | |
| Max. tool length | mm | | | 300 | | | |
| Max. tool weight | kg | | | 8 (Average tool weight 6kg, total weight 160kg) | | | |
| Accuracy (VDI/DGQ 3441) | | | | | | | |
| Positioning accuracy P (X, Y, Z) | mm | 0.023 | 0.025 | 0.030 | 0.025 | 0.030 | 0.035 |
| Repeatability accuracy Ps (X, Y, Z) | mm | 0.018 | 0.020 | 0.025 | 0.020 | 0.025 | 0.030 |
| B/C axis positioning accuracy P | arcsec | | | 14 | | | |
| B/C repeatability accuracy Ps | arcsec | | | 8 | | | |
| Power capacity | kVA | 80KVA(380±10%Vac,3phase 50/60Hz) | | | 100KVA(380±10%Vac,3phase 50/60Hz) | | |
| Air pressure required | kg/cm ² | | | 6 | | | |
| Tank capacity | L | | 550 | | | 660 | |
| Machine length L | mm | 7990 | 8990 | 11125 | 8990 | 11125 | 12550 |
| Machine width x high W x H | mm | | 4900×5590 | | | 5450×5600 | |
| Machine weight | kg | 25000 | 30000 | 35000 | 35000 | 40000 | 47000 |

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Standard Accessories

- Three-axis optical scales
- A/C axes Renishaw rotary optical encoders
- Automatic lubrication system
- Chip conveyor and cart
- Rigid tapping
- Electrical cabinet air conditioner
- Tool clamp unclamp foot pedal switch
- Coolant system
- Leveling bolt and Leveling pad
- Inspection report
- Mechanical operation manual and system instruction book

Optional Accessories

- Spindle 15000 rpm
- Spindle 18000 rpm
- Coolant through spindle(CTS)
- Magazine 40 tool, 60 tool
- Auto tool length measurement device
- Auto workpiece measurement device
- Five-axis anti-collision protection function
- Five-axis rotary center error compensation function (RTCP)

- **Optional controller**
SIEMENS 840DSL
HEIDENHAIN TNC640
FAGOR
FANUC

UNIKA SERİSİ


| MODEL | UK-2020-5A | UK-3020-5A | UK-4020-5A | UK-3025-5A | UK-4025-5A | UK-(5025-12025)-5A | UK-4030-5A | UK-(5030-24030)-5A | UK-(5035-24035)-5A | UK-(5040-24040)-5A |
|---|--------------------|--|------------|--|--|--------------------|--|--------------------|---|--------------------|
| Travel | | | | | | | | | | |
| X-axis | mm | 2000 | 3000 | 4000 | 3000 | 4000 | 5000 + (per 1M)* | 4000 | 5000 + (per 1M)* | 5000 + (per 1M)* |
| Y-axis | mm | 2000(Vertical) / 1295(Horizontal) | | 2500(Vertical) / 1795(Horizontal) | | | 3000(Vertical) / 2295(Horizontal) | | 3600(Vertical) / 2795(Horizontal) 4000(Vertical) / 3295(Horizontal) | |
| Z-axis | mm | 800 | | 1000(Opt. 1200) | | | 1000(Opt. 1200) | | 1000(Opt. 1200) | |
| Spindle nose to table surface | mm | 120 ~ 920 | | 120 ~ 1120 | | | 120 ~ 1120 | | 120 ~ 1120 | |
| Distance from spindle 90° centerline to table surface | mm | 473 ~ 1273 | | 473 ~ 1473 | | | 473 ~ 1473 | | 473 ~ 1473 | |
| Distance between two columns | mm | 2800 | | 3300 | | | 3800 | | 4300 4800 | |
| Working table | | | | | | | | | | |
| Table size (X direction) | mm | 3000 | 4000 | 5000 | 4000 | 5000 | 6000 + (per 1M)* | 5000 | 6000 + (per 1M)* | 6000 + (per 1M)* |
| Table size (Y direction) | mm | 2000 | | 2500 | | | 3000 | | 3500 4000 | |
| T slot Size (W x D) | mm | 18x200 | | 28x250 | | | 28x250 | | 28x250 | |
| Loading capacity | kg/M ² | 2500 | | 2500 | | | 2500 | | 2500 | |
| Spindle | | | | | | | | | | |
| Spindle motor | kW | 35/49(S1/S6-40%) | | 35/49(S1/S6-40%) | | | 35/49(S1/S6-40%) | | 35/49(S1/S6-40%) | |
| Spindle speed | min ⁻¹ | 12000(Opt. 15000) | | 12000(Opt. 15000) | | | 12000(Opt. 15000) | | 12000(Opt. 15000) | |
| Spindle taper | | HSK-A63 | | HSK-A63 | | | HSK-A63 | | HSK-A63 | |
| Spindle maximum torque | Nm | 120/170(S1/S6-40%) | | 120/170(S1/S6-40%) | | | 120/170(S1/S6-40%) | | 120/170(S1/S6-40%) | |
| Spindle diameter | mm | 70 | | 70 | | | 70 | | 70 | |
| Axis head | | | | | | | | | | |
| B-axis rotation angle | deg | B= +120° ~ -95° | | B= +120° ~ -95° | | | B= +120° ~ -95° | | B= +120° ~ -95° | |
| C-axis rotation angle | deg | C= ±200° | | C= ±200° | | | C= ±200° | | C= ±200° | |
| B/C axis min. division | deg | 0.001°(Continuously) | | 0.001°(Continuously) | | | 0.001°(Continuously) | | 0.001°(Continuously) | |
| B-axis working torque (S1/S6) | Nm | 450/630 | | 450/630 | | | 450/630 | | 450/630 | |
| C-axis working torque (S1/S6) | Nm | 450/700 | | 450/700 | | | 450/700 | | 450/700 | |
| B/C axis clamping torque | Nm | 3750/2700 | | 3750/2700 | | | 3750/2700 | | 3750/2700 | |
| Feedrate | | | | | | | | | | |
| Rapid feedrate X / Y / Z | m/min | 20/20/12 | | 20/20/12 | | | 20/15/12 | | 20/15/12 | |
| B/C swing speed/rotation speed | deg./sec | B=50,C=180 | | B=50,C=180 | | | B=50,C=180 | | B=50,C=180 | |
| Cutting rate (X, Y, Z) | m/min | 1-10000 | | 1-10000 | | | 1-10000 | | 1-10000 | |
| Tool magazine | | | | | | | | | | |
| Tool number | pcs | 24(Opt. 32,40) | | 24(Opt. 32,40) | | | 24(Opt. 32,40) | | 24(Opt. 32,40) | |
| Max. tool diameter/ Adjacent pot (full/empty) | mm | Ø75/Ø120 | | Ø75/Ø120 | | | Ø75/Ø120 | | Ø75/Ø120 | |
| Max. tool length | mm | 300 | | 300 | | | 300 | | 300 | |
| Max. tool weight | kg | 8(Average tool weight 6kg, total weight 160kg) | | 8(Average tool weight 6kg, total weight 160kg) | | | 8(Average tool weight 6kg, total weight 160kg) | | 8(Average tool weight 6kg, total weight 160kg) | |
| Accuracy (VDI3000 3441) | | | | | | | | | | |
| Positioning accuracy P (X, Y, Z) | mm | 0.020 | 0.025 | 0.030 | 0.025 | 0.030 | 0.035 +(0.005/1M) | 0.030 | 0.035 +(0.005/1M) | 0.035 +(0.005/1M) |
| Repeatability accuracy Pa (X, Y, Z) | mm | 0.015 | 0.020 | 0.025 | 0.020 | 0.025 | 0.030 +(0.005/1M) | 0.025 | 0.030 +(0.005/1M) | 0.030 +(0.005/1M) |
| B/C-axis positioning accuracy P | arcsec | 14 | | 14 | | | 14 | | 14 | |
| B/C repeatability accuracy Pa | arcsec | 8 | | 8 | | | 8 | | 8 | |
| Transmission | | | | | | | | | | |
| | | X, Y, Z: Ball screw | | | Y, Z: Ball screw, X: Ball screw (travel ≤ 4000mm), Rack & pinion (travel ≥ 5000mm) | | Y, Z: Ball screw, X: Ball screw (travel ≤ 4000mm), Rack & pinion (travel ≥ 5000mm) | | X, Y: Rack & pinion, Z: Ball screw | |
| Power capacity | kVA | 80kVA(380±10%Vac,3phase 50/60Hz) | | 100kVA(380±10%Vac,3phase 50/60Hz) | | | 100kVA(380±10%Vac,3phase 50/60Hz) | | 100kVA(380±10%Vac,3phase 50/60Hz) | |
| Air pressure required | kg/cm ² | 6 | | 6 | | | 6 | | 6 | |
| Coolant tank | L | 600 | | 720 | | | 830 | | 900 1000 | |
| Machine length (L) | mm | 6330 | 7330 | 8330 | 7330 | 8330 | 9330 + (per 1M)* | 8330 | 9330 + (per 1M)* | 1000 |
| Machine width x high (W x H) | mm | 5600x4900 | | 5600x4900 | | | 6600x5100 | | 7100x5100 8600x5100 | |
| Machine weight | kg | 31000 | 36000 | 41000 | 37000 | 42500 | 49000(X:5m) | 45000 | 50000(X:5m) | 55000(X:5m) |

© The company reserves the right to change the mechanical specifications, accessories and appearance without prior notification.

Remark: 1. If X travel >= 6000 mm, rack & pinion transmission system is adopted.
2. If Y travel >= 3000 mm, rack & pinion transmission system is adopted.

Standard Accessories

- Siemens 840DS/15 LCD
- Centralized lubrication system
- Rigid tapping/programs and MDI auto power off
- Three-axis linear scale/hidden/air
- Electric control box with air conditioner
- Tool clamping/clamp foot pedal switch
- Front door safety interlock switch
- Coolant system
- Leveling bolts and pads
- Inspection chart
- Mechanical operation and instruction manual

Optional Accessories

- Spindle 15000 rpm
- Spindle 18000 rpm
- Coolant through spindle
- Tool magazine 32 tool, 40 tool
- Automatic tool length measurement
- Automatic work piece measurement
- Hidden/air
- Fagor, Fanuc 31i

TWISTER SERİSİ



Machine Specification

TRAVEL

| | |
|--------------------------------|--------------|
| X-ax travel | 650 mm |
| Y-ax travel | 820 mm |
| Z-ax travel | 550 mm |
| Spindle nose to pallet surface | 125 ~ 675 mm |
| Axis movement "A" tilting | -120°~ +100° |
| Axis movement "C" Table | 0°~360° |

PALLET

| | |
|--|--------|
| Table size | Ø 650 |
| Height of the table surface from the floor | 910 mm |
| Number of slots | 7 |
| Distance between T-slots | 80 mm |
| Maximum loading capacity | 750 kg |

SPINDLE

| | |
|----------------------|--|
| Spindle speed | Built-in 12000 rpm |
| Spindle motor | (F): 11 / 18.5 kW (S1/S3-10%, LOW) 15 / 26 kW (S1/S3-25%, HIGH) |
| Spindle rated torque | (F): 45.7 / 124 N-m (S1/S3-15%, LOW)) 23.9 / 41.4 N-m (S1/S3-25%, HIGH) |
| Spindle taper | BBT40 (opt. HSK- A63) |

FEED

| | |
|-------------------------------|-------------------------------------|
| Rapid feed (X / Y / Z axis) | 36 m/min (opt. 48 m/min , 60 m/min) |
| Cutting feed (X / Y / Z axis) | 10,000 mm/min |
| Ballscrew dia. | 40 mm |
| Axis rotation speed "A" | 5 rpm |
| Axis rotation speed "C" | 300 rpm |

AUTOMATIC TOOL CHANGER (ATC)

| | |
|--|-----------------------|
| Tool change system | ARM |
| Type of tool shank | BBT40 (opt. HSK- A63) |
| Type of pull-stud | MAS403 B40T-1 |
| Tool exchange time | T-T 2 sec ; C-C 4 sec |
| Max. tool dia. (adjacent pot full / empty) | Ø 80 / 120 mm |
| Max. tool length | 300 mm |
| Max. tool weight | 7 kg |

SUPPLY

| | |
|-----------------------|----------------------------|
| Electric voltage | 200-220 V (50 / 60 Hz) |
| Electric power supply | 40 KVA |
| Air pressure & volume | 0.6 MPa , 350 liters / min |
| Coolant tank | 400 L |

SIZE

| | |
|----------------|--------------|
| Floor space | 4508×2600 mm |
| Machine height | 3500 mm |
| Machine weight | 10000 Kg |

* The company reserves the right to change the mechanical specifications, accessories and appearance without prior notice.

Standard Accessories

- Built-in spindle 12000 rpm
- Arm type tool magazine 30 tools
- Coolant system
- Fully enclosed splash guard
- LED lamp
- Automatic lubrication system
- Operation indication lamp
- Three-axis linear scale
- A / C axis rotary optical encoders
- Spindle air curtain
- Chip conveyor and cart
- Spindle oil cooler
- Heat exchanger for electrical cabinet
- Leveling bolts and pads
- Tools and tool box
- Operation and maintenance manual
- Water gun and air gun

Optional Accessories

- Built-in spindle 15000 rpm / 20000 rpm
- Coolant through spindle system (20 bar)
- Arm type tool magazine 40 tools, 60 tools
- Automatic tool length measurement
- Automatic work piece measurement
- Five-axis rotary center error compensation function (RTCP)
- Transformer
- Controller:
Fanuc
Mitsubishi
Siemens
Heidenhain
Fagor

VF-500-5A



VF-500-5A Vertical High Efficiency 5-axis Machining Center

| ITEM | VF-500-5A |
|-------------------------------------|--|
| Travel | |
| X axis travel | 500 mm |
| Y axis travel | 380 mm |
| Z axis travel | 400 mm |
| B axis tilting movement | +20°~115° |
| C axis rotating movement | 360° |
| C axis max. travel | Ø 170 mm |
| Rotation speed "B" | 50 rpm |
| Rotation speed "C" | 100 rpm |
| Table Size | Ø 170 mm |
| Max. table loading | 30 kg |
| Spindle | |
| Spindle nose to table | 80~480 mm |
| Spindle center to "Z" cover | 640 mm |
| Spindle taper | BT30 (opt. DIN30/ ISO30) |
| Spindle speed | Direct type: 12,000rpm (opt. 15,000/20,000rpm) Built-in type: 24,000rpm |
| Spindle dia. | 50 mm |
| Feed | |
| Rapid feed (X/Y/Z) | 16000/16000/16000 mm/min |
| Cutting feed (X/Y/Z) | 10000 mm / min |
| Z axis counter weight | NA |
| Ballscrew dia. & pitch | Ø 32mm, P5/P5/P5 mm |
| Guide way type | Linear guide way W25/25/30 |
| Accuracy VDI 3441(JIS B6338) | |
| X/Y/Z Positioning accuracy | P0.014 mm (± 0.004 / 300 mm) |
| X/Y/Z Repeatability | PS0.010 mm (± 0.003 mm) |
| "C" axis Repeatability | 4" |
| "B" axis Repeatability | 8" |
| ATC System | |
| Tool shank | BT30 |
| Tool capacity | 20T |
| Tool exchange time | T-T 1 sec, C-C 2.5 sec |
| Max. tool diameter (with adj. tool) | 60 mm |
| Max. tool diameter (w/o adj. tool) | 100 mm |
| Max. tool length | 200 mm |
| Max. tool weight | 3 kg |
| Motor | |
| Spindle motor | Direct(F): 3.7/5.6 kW (5/7.5HP) ; Built-in(F): 4.6/5.3 kW (6.1/7HP) |
| Servo motor X/Y/Z | 1.5/1.5/2.0 kW |
| Other | |
| Power required | 15 kVA |
| Air pressure required | 5~6 kg/cm ² ; 200 L/min |
| Machine dimension W/D/H | 1624x2250x2530 mm |
| Machine weight | 2800 kg |

Standard Accessories

- 12000 rpm Direct-driven spindle (Mitsubishi)
- 15000 rpm Direct-driven spindle (Fanuc, Siemens)
- ATC system (arm type 20T)
- Coolant system
- Powerful chip flush system
- Work lamp
- Indicating light
- Spindle air blast
- Auto Lubrication system
- Fully enclosed splash guard
- Auto power off (M30)
- RS 232 Interface
- Heat exchanger for elec. cabinet
- Rigid tapping
- Tool box with adjustment tools
- Leveling bolts & pads
- Operation & maintenance manual
- Water gun / Air gun

Optional Accessories

- 20000 rpm Direct-driven spindle
- 24000 rpm built-in type spindle
- Spindle oil cooler
- Coolant through spindle (built-in spindle)
- Auto tool length measurement device
- Auto workpiece measurement device

※Specification and design characteristics subject to change without prior notice.



◀ 5-axis Machining Video of TTFE3



A wide range of milling heads all equipped with CTS



5-axis simultaneous movement control milling head (TTFE3)

Rigid, compact, agile and accurate design to ensure machining speed and efficiency.

| | | |
|----------------------------|-------------------------------|------------|
| C-axis travel | ± 200° | 450/700 Nm |
| B-axis travel | +120°~-95° | 450/630 Nm |
| Resolution of B/C | 0.001°(cont.) | |
| Spindle type | 18000 rpm Built-in HSK-A63 | |
| Base speed | 3000 rpm | |
| Spindle power (S1/S6-40%) | 35/49 kW (380V) | |
| Spindle torque (S1/S6-40%) | 120/170 Nm | |



4-axis simultaneous movement control 5-axis milling head (TTFG1)

Sturdy, accurate, efficient adaptable design.

| | | |
|----------------------------|---------------------------------------|--------------|
| C-axis travel | ± 200° | 1470/3670 Nm |
| B-axis travel | ±95° | 1470/3670 Nm |
| Resolution of B/C | 0.001°(index), 0.001°(cont.) | |
| Spindle type | 4000 rpm BT-50(DIN-50) Gear-driven | |
| Spindle power (S1) | 34 kW (380 V) | |
| Spindle torque (S1/S6-40%) | 860/1100 Nm | |



Universal milling head (TT2i)

Simple, accurate and adaptable universal head.

| | | |
|----------------------------|---------------------------------------|--|
| B-axis | 360° | |
| C-axis | ±185°, 1200/1700 Nm | |
| B-axis resolution | 2.5°(index), opt.0.001°(index) | |
| C-axis resolution | 0.001°(cont.) | |
| Spindle type | 5000 rpm BT-50(DIN-50) Gear-driven | |
| Spindle power (S1) | 37 kW (380 V) | |
| Spindle torque (S1/S6-40%) | 500/700 Nm(S1/S6-40%) | |

HORNET Serisi



MACHINE SPECIFICATION

| | |
|--|------------------------------|
| Stroke | |
| X-axis | 3000 mm |
| Y-axis | 1000 mm |
| Z-axis | 1000 mm |
| Table | |
| Table size | 3280×1065 mm |
| maximum loading capacity (per square meter) | 2500 kg/m ² |
| Distance from spindle nose vertical to table surface | 100 - 1100 mm |
| T-slot (number x size x pitch) | 7x18 mmx130 mm+2x18 mmx90 mm |
| Swivel head (B-axis) | |
| Swivel angle | ±95° |
| B-axis speed | 120°/sec |
| Positioning accuracy | 0.001* |
| Maximum rotating torque | 450 (S1) / 630 (S6) Nm |
| Clamping torque | 2000 Nm |
| Built-in spindle | |
| Spindle taper | HSK-A63 |
| Motor power | 35/49 (S1/S6-40%) kw |
| Speed | 10000 rpm |
| Maximum torque | 120/170 (S1/S6-40%) Nm |
| Rapid feedrate | |
| X/Y/Z rapid | 30 m/min |
| Cutting speed | 1-10000 mm/min |
| Diameter & pitch of ballscrews | X/Y/Z : 63/50/50 , P20/20/20 |
| Rotary table | |
| Diameter of rotary table | 640 mm |
| Diameter of center hole | 60 mm |
| Maximum loading capacity | 1000 kg |
| Rotating angle | Continuous |
| Maximum rotating speed | 130 rpm |
| Positioning accuracy | ±0.0015* |
| Rotating torque | 530/980 Nm (normal/peak) |
| Clamping torque | 2500 Nm |
| ATC | |
| Number of tools | 32 Tool ATC |
| Max. tool diameter (w./w.o. adjacent tool) | 80 / 120 mm |
| Max. tool length | 300 mm |
| Max. tool weight | 8 kg |
| Tool change time | T-T 10 sec |
| Others | |
| Machine dimension (WxDxH) | 7650x4150x3320 mm |
| Machine weight | 25000 kg |

Standard Accessories

- 32 Tool ATC
- 3-axis optical scale
- Spindle oil cooler
- Coolant system
- Automatic lubrication system
- Electric control box with airconditioner
- Working lamp
- Maintenance tools
- Warning lamp
- Leveling pads and bolts
- M30 Automatic power off
- Operation manual
- Chain type chip conveyor with cart

Optional Accessories

- 4th Axis rotary table
- Coolant through spindle
- 40/48 Tool ATC
- Spindle speed 12000/15000 18000 rpm
- Automatic tool length measuring system
- Automatic workpiece measuring system

Controller

SIEMENS
HEIDENHAIN
FAGOR
FANUC
MITSUBISHI

LINEAR KIZAK SERİSİ



| MODEL | | FCL-140 | FCL-200 |
|-----------------------------|--------|-----------------|-----------------|
| Çevirme Çapı | mm | 470 | 470 |
| Max. kesme çapı | mm | 260 | 292 |
| Max. kesme boyu | mm | 290 | 500 |
| İki punta arası mesafe | mm | 397 | 620 |
| Spindle nose | ASA | A2-5 | A2-6 |
| Ayna ebadı | inch | 6 | 8 |
| Fener mili dış çap | mm | 57 | 67 |
| İş mili devri | rpm | 6000 | 4500 |
| Spindle motor gücü | kW | 7.5/11 | 7.5/11 |
| Spindle sargı | mm | 0.003 | 0.003 |
| Fener mili iç çap | mm | 45/52 (Opt.) | 52 |
| Z eksen hareketi | mm | 320 | 520 |
| X eksen hareketi | mm | 150 | 176 |
| Z eksen boşta ilerleme hızı | m/min | 30 | 30 |
| X eksen boşta ilerleme hızı | m/min | 30 | 30 |
| Takım adedi | | 10 | 10 |
| Takım dış çap | mm | 20 x 20 | 20 x 20 |
| Delik bara çap | mm | 32 | 32 |
| Punta hareketi mesafesi | mm | 250 | 450 |
| Pinol hareketi | mm | 80 | 100 |
| Pinol çapı | mm | 70 | 75 |
| Punta koniği | MT | 4 | 4 |
| Punta sürüşü | | Hydraulic | Hydraulic |
| Punta konumlandırma | | manual | Manual |
| Boyutlar (ExBxY) | M | 2.1 x 1.6 x 1.6 | 2.8 x 1.7 x 1.6 |
| Makina ağırlığı | ib/kg. | 6160 / 2800 | 8487 / 3850 |

LINEAR KIZAK SERİSİ



| | FCL-200HT | FCL-200MC | FCL-300 | FCL-300MC |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| Çevirme Çapı | 470 | 470 | 600 | 600 |
| Max. kesme çapı | 300 | 196 | 450 | 330 |
| Max. kesme boyu | 479 | 444 | 700 | 669 |
| İki punta arası mesafe | 620 | 620 | 620 | 810 |
| Spindle nose | A2-6 | A2-6 | A2-8 | A2-8 |
| Ayna ebadı | 8 | 8 | 10 | 10 |
| Fener mili dış çap | 67 | 67 | 88 | 88 |
| İş mili devri | 3500 | 4500 | 3000 | 3000 |
| Spindle motor gücü | 11/15 | 5.5/7.5 | 15/18.5 | 15/18.5 |
| Spindle sargı | 0.003 | 0.003 | 0.003 | 0.003 |
| Fener mili iç çap | 52 | 52 | 77 | 77 |
| Z eksen hareketi | 520 | 520 | 762 | 762 |
| X eksen hareketi | 176 | 161 | 260 | 260 |
| Z eksen boşta ilerleme hızı | 30 | 30 | 24 | 24 |
| X eksen boşta ilerleme hızı | 30 | 30 | 20 | 20 |
| Takım adedi | 10 | 10 | 10 | 10 |
| Takım dış çap | 25 x 25 | 20 x 20 | 25 x 25 | 25 x 25 |
| Delik bara çapı | 40 | 32 | 40 | 40 |
| Punta hareketi mesafesi | 450 | 450 | 627 | 627 |
| Pinol hareketi | 100 | 100 | 120 | 120 |
| Pinol çapı | 75 | 75 | 85 | 85 |
| Punta koniği | 4 | 4 | 4 | 4 |
| Punta sürüşü | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| Punta konumlandırma | Manual | Manual | Manual | Manual |
| Boyutlar (ExBxY) | 2.8 x 1.7 x 1.6 | 2.8 x 1.7 x 1.6 | 3.6 x 1.8 x 1.8 | 3.6 x 1.8 x 1.8 |
| Makina ağırlığı | 8487 / 3900 | 8487 / 3950 | 11000 / 5600 | 12570 / 5700 |

CNC LATHES

KUTU KIZAK SERİSİ

FBL-200/A/L

FBL-300

FBL-360



| MODEL | | FBL-200 | FBL-200L | FBL-230 |
|-----------------------------|--------|-----------------|---------------|-----------------|
| Çevirme Çapı | mm | 470 | 470 | 330 |
| Max. kesme çapı | mm | 260 | 280 | 311 |
| Max. kesme boyu | mm | 408 | 610 | 443 |
| İki punta arası mesafe | mm | 480 | 680 | 507 |
| Spindle nose | ASA | A2-6 | A2-6 | A2-6 |
| Ayna ebadı | inch | 8 | 8 | 8 |
| Fener mili dış çap | mm | 62 | 62 | 62 |
| İş mili devri | rpm | 3500 | 3500 | 3500 |
| Spindle motor gücü | kW | 11/15 | 11/15 | 11/15 |
| Spindle sargı | mm | 0.003 | 0.003 | 0.003 |
| Fener mili iç çap | mm | 52/65 (Opt.) | 52/65 (Opt.) | 52 |
| Z eksen hareketi | mm | 450 | 650 | 450 |
| X eksen hareketi | mm | 175 | 175 | 210 |
| Z eksen boşta ilerleme hızı | | 20 | 20 | 20 |
| X eksen boşta ilerleme hızı | | 20 | 20 | 20 |
| Takım adedi | | 8 | 8 | - |
| Takım dış çap | mm | 25 x 25 | 25 x 25 | 25 x 25 |
| Delik bara çapı | mm | 40 | 40 | 40 |
| Punta hareket mesafesi | mm | 310 | 510 | 310 |
| Pinol hareketi | mm | 100 | 100 | 120 |
| Pinol çapı | mm | 75 | 75 | 75 |
| Punta koniği | MT | 4 | 4 | 4 |
| Punta sürüşü | | Hydraulic | Hydraulic | Hydraulic |
| Punta konumlandırma | | Manual | Manual | Manual |
| Boyutlar (ExBxY) | M | 2.7 x 1.7 x 1.6 | 3 x 1.7 x 1.6 | 2.8 x 1.7 x 1.7 |
| Makina ağırlığı | ıb/kg. | 7678 / 3490 | 9921 / 4500 | 3500 |

KUTU KIZAK SERİSİ

CNC LATHES

FBL-300/L/MC
FBL-360/L/MC
FBL-460/L/MC



| MODEL | | FBL-300 | FBL-300MC | FBL-300L |
|-----------------------------|--------|----------------|----------------|-------------|
| Çevirme Çapı | mm | 654 | 654 | 654 |
| Max. kesme çapı | mm | 510 | 390 | 510 |
| Max. kesme boyu | mm | 594 | 554 | 1554 |
| İki punta arası mesafe | mm | 748 | 748 | 1708 |
| Spindle nose | ASA | A2-8 | A2-8 | A2-8 |
| Ayna ebadı | inch | 10 (12) | 10 (12) | 10 (12) |
| Fener mili dış çap | mm | 88 | 88 | 88 |
| İş mili devri | rpm | 2500 | 2500 | 2500 |
| Spindle motor gücü | kW | 15/18.5 | 15/18.5 | 15/18.5 |
| Fener mili iç çap | mm | 77 | 77 | 77 |
| Z eksen hareketi | mm | 640 | 640 | 160 |
| X eksen hareketi | mm | 290 | 290 | 290 |
| Z eksen boşta ilerleme hızı | mm | 20 | 20 | 18 |
| X eksen boşta ilerleme hızı | m/min | 20 | 20 | 18 |
| Takım sistemi | m/min | - | BMT-65 | - |
| Takım adedi | | 10 (12) | 12 | 10 (12) |
| Takım dış çap | mm | 25 x 25 | 25 x 25 | 25 x 25 |
| Delik bara çapı | mm | 40 | 40 | 40 |
| Punta hareketi | mm | 550 | 550 | 1510 |
| Pinol hareketi | mm | 130 | 130 | 130 |
| Pinol çapı | mm | 90 | 90 | 90 |
| Punta koniği | MT | 5 | 5 | 5 |
| Punta sürüşü | | Hydraulic | Hydraulic | Hydraulic |
| Punta konumlandırma | | Manual | Manual | Manual |
| Boyutlar (ExBxY) | M | 3.5 x 1.95 x 2 | 3.6 x 1.95 x 2 | 4.7 x 2 x 2 |
| Makina ağırlığı | ib/kg. | 5800 | 5800 | 9000 |

KUTU KIZAK SERİSİ



| FBL-360 | FBL-360MC | FBL-360L | FBL-360LMC | FBL-460 | FBL-460MC | FBL-460L | FBL-460LMC |
|-----------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|
| 770 | 770 | 770 | 770 | 840 | 840 | 840 | 840 |
| 570 | 452 | 570 | 452 | 650 | 530 | 650 | 530 |
| 762 | 739 | 2026 | 1997 | 694 | 665 | 1992 | 1960 |
| 1020 | 1020 | 2300 | 2300 | 820 | 820 | 2200 | 2200 |
| A2-8 (A2-11) | A2-8 (A2-11) | A2-8 (A2-11) | A2-8 (A2-11) | A2-15 | A2-15 | A2-15 | A2-15 |
| 12 (15) | 12 (15) | 12 (15) | 12 (15) | 15 | 15 | 15 | 15 |
| 105 (134) | 105 (134) | 105 (134) | 105 (134) | 153 | 153 | 153 | 153 |
| 2500 (1500) | 2500 (1500) | 2500 (1500) | 2500 (1500) | 1400 | 1400 | 1400 | 1400 |
| 22/26/30/37 | 18.5/22/22/26 | 22/26/30/37 | 18.5/22/22/26 | 22/26/30/37 | 22/26/30/37 | 22/26/30/37 | 22/26/30/37 |
| 91(115) | 91(115) | 91(115) | 91(115) | 140 | 140 | 140 | 140 |
| 820 | 820 | 2100 | 2100 | 820 | 820 | 2000 | 2000 |
| 320 | 320 | 320 | 320 | 360 | 360 | 360 | 360 |
| 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| - | BMT-75 | - | BMT-75 | - | BMT-75 | - | BMT-75 |
| 10 (12) | 12 | 10 (12) | 12 | 10 (12) | 12 | 10 (12) | 12 |
| 32 X 32 | 32 X 32 | 32 X 32 | 32 X 32 | 32 X 32 | 32 X 32 | 32 X 32 | 32 X 32 |
| 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 820 | 820 | 2000 | 820 | 2000 | 820 | 2000 | 2000 |
| 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| Programmable | Programmable | Programmable | Programmable | Programmable | Programmable | Programmable | Programmable |
| 4.4 x 2.1 x 2.2 | 4.4 x 2.1 x 2.2 | 5.8 x 2.25 x 2.3 | 5.8 x 2.25 x 2.3 | 4.3 x 2.25 x 2.2 | 2.8 x 1.7 x 1.6 | 5.8 x 2.25 x 2.2 | 5.8 x 2.25 x 2.2 |
| 8880 | 8880 | 12760 | 12760 | 9500 | 9500 | 9500 | 13500 |

FNL SERİSİ 250Y/320Y/SY

C ve Y Eksenli CNC Torna



| MODEL | | FNL-250Y | FNL-250SY | FNL-320Y | FNL-320SY |
|----------------------------|----------------------------|----------|-----------------|-----------------|-----------------|
| Ayna Ebadı | inch | 8(10) | 8(10) | 10 | 10 |
| Çevirme Çapı | mm | 600 | 600 | 600 | 600 |
| İşleme Çapı | mm | 600 | 600 | 600 | 600 |
| Max. İşleme Çapı | mm | 350 | 460 | 460 | 460 |
| İki Punta Arası | mm | 558 | 558 | 548 | 548 |
| Çubuk İşleme Çapı | mm | 65 | 65 | 77 | 77 |
| Axis travel | X eksen | mm | 310 | 310 | 310 |
| | Y eksen | mm | ± 55 | ± 55 | ± 55 |
| | Z eksen | mm | 620 | 620 | 620 |
| | ZB eksen | mm | 650 | 650 | 650 |
| Main Spindle | İş Mili Devri | rpm | 4,500 | 4,500 | 3,500 |
| | İş Mili Ucu | ASA | A2-6 | A2-6 | A2-8 |
| Main Spindle | Fener Mili Delik Çapı | mm | 77 | 77 | 88 |
| | Transmisyon | | Belt | Belt | Belt |
| Çift Ayna | Ayna Ebadı | inch | Built-in (Opt.) | Built-in (Opt.) | Built-in (Opt.) |
| | İş Mili Devri | rpm | | 6,000 | 6,000 |
| | İş Mili Ucu | ASA | N/A | A2-5 | N/A |
| | Fener Mili Delik Kalınlığı | mm | | 33 (ø40x170) | 33 (ø40x170) |
| C Eksen Pozisyon Derinliği | Transmisyon | | Built-in | Built-in | Built-in |
| | | | 0,001° | 0,001° | 0,001° |
| Taret | | BMT 60 | BMT 60 | BMT 60 | BMT 60 |
| Takım Sayısı | EA | 12 | 12 | 12 | 12 |
| Takım Özellikleri | Takım Dönüş Ölçüsü | mm | 25 | 25 | 25 |
| | Takım Sıkma Ölçüsü | mm | 40 | 40 | 40 |
| Takım Değiştirme | sec. | 0.2 | 0.2 | 0.2 | 0.2 |
| Takım Hareketi | Max. Dönüş | rpm | 4000(6000) | 4000(6000) | 6000 |
| | Max. Hız | kW | 2.7 (46Nm) | 2.7 (46Nm) | 4.5 (55Nm) |
| Hızlı Traverse | X/Y eksen | m/min | 24/20 | 24/20 | 24/20 |
| | Z/ZB eksen | m/min | 30/20 | 30/20 | 30/20 |
| Punte | Punte Deliği | | MT#4 | - | MT#5 |
| | Punte Hareketi | mm | 650 | - | 650 |
| Spindle Motors | Ara Spindle | kW | 11/15 | 11/15 | 11/15 |
| | Yardımcı Spindle | kW | - | 5,5/7,5 | - |
| Servo Motor | X/Y eksen | kW | 2,7/2,7 | 2,7/2,7 | 2,7/2,7 |
| | Z/ZB eksen | kW | 2,7/2,7 | 2,7/2,7 | 2,7/2,7 |
| KWA/Güç | KVA | 40 | 40 | 40 | 40 |
| Makina Ağırlığı | kg | 5,700 | 5,800 | 6,500 | 6,500 |

FBL AĞIR TİP SERİ

FBL-520
FBL-530
FBL-540



| MODEL | | FBL-520 | FBL-530 | FBL-540 |
|-------------------------------|---------|---------|---------|---------|
| Çevirme çapı | mm | Ø 1030 | Ø 1030 | Ø 1030 |
| Max. kesme çapı | mm | Ø 800 | Ø 800 | Ø 800 |
| Merkezler arası mesafe | mm | 2000 | 3000 | 4000 |
| İş mili ucu | ASA | A2-15 | A2-15 | A2-15 |
| Ayna ölçüsü | inch | 18" | 18-24" | 18" |
| İş mili rulman çapı | mm | Ø 260 | Ø 260 | Ø 260 |
| İş mili delik çapı | mm | Ø 196 | Ø 196 | Ø 196 |
| İş mili hızı | rpm | 1000 | 1000 | 1000 |
| İş mili motoru | kW | 37/45 | 37/45 | 37/45 |
| İş mili torku | kgf-m | 726 | 726 | 726 |
| Z eksen hareketi | mm | 2000 | 2000 | 4000 |
| X eksen hareketi | mm | 490 | 490 | 490 |
| X/Y Eksenleri boşta hızları | M / dak | 10/12 | 10/12 | 10/12 |
| Takım sayısı | adet | 12 | 12 | 12 |
| Dış kater tipi | mm | 32 x 32 | 32 x 32 | 32 x 32 |
| Delik bara çapı | mm | Ø 60 | Ø 60 | Ø 60 |
| Takım değiştirme süresi (T-T) | saniye | 0.45 | 0.45 | 0.45 |
| Punta hareket mesafesi | mm | 2000 | 2000 | 4000 |
| Pinol hareket mesafesi | mm | 100 | 100 | 100 |
| Pinol çapı | mm | Ø 200 | Ø 200 | Ø 200 |
| Pinol konik çapı | MT | 6 | 6 | 6 |
| Soğutma tankının kapasitesi | L | 180 | 180 | 180 |
| Net ağırlık | kg | 19000 | 19000 | 29000 |

VMC Serisi



| TEMEL ÖZELLİKLER | BİRİM | MODEL | | | |
|---|--------|----------------|----------------|----------------|----------------|
| | | VMC-855 | VMC-1160 | VMC-1300 | VMC-1580L |
| X, Y, Z Table travel (X,Y,Z) | mm | 800×550×550 | 1100×600×600 | 1300×700×700 | 1500×800×700 |
| Table size | mm | 1000X550 | 1200X600 | | 1700X800 |
| Number/Width/Distance of T-slot | mm | 5-18-90 | 5-18-100 | | 5-22-135 |
| Max. load of table | kg | 500 | 600 | 1200 | 1500 |
| Distance from spindle nose to table surface | mm | 150-700 | 120-720 | 160-860 | 160-860 |
| Distance from spindle axis to column guideway | mm | 610 | 670 | 775 | |
| Taper of spindle | | Bt40 | Bt40 | Bt40 | Bt50 |
| Spindle speed range | rpm | 10000 | 10000 | 10000 | 40-6000 |
| Spindle motor power | kW | 11/15 | 11/15 | 11/15 | 15/18.5 |
| X, Y, Z Rapid feed speed | mm/min | 36/36/30 | 36/36/30 | 18/18/15 | 24/24/15 |
| X, Y, Z Cutting feed speed | mm/min | 1-10000 | 1-10000 | 2.5-10000 | 1-10000 |
| Positioning accuracy | mm | ±0.005/300 JIS | ±0.005/300 JIS | ±0.005/300 JIS | ±0.005/300 JIS |
| Repeat positioning accuracy | mm | ±0.003/300 JIS | ±0.003/300 JIS | ±0.003/300 JIS | ±0.003 JIS |
| Tool magazine capability | qty | 24 | 24 | 24 | 24 |
| Max. weight of tool | kg | 8 | 8 | 15 | 25 |
| Max. dimension of tool | mm | Φ130/300 | Φ78/300 | Φ200/300 | Φ110/220 |
| Min. time of tool change | sec | 1.75 | 1.55 | 3 | 2.91/6 |
| Overall dimension | mm | 2550×2280×2800 | 3100×2460×2860 | 3700×2340×2800 | 4200×3110×3100 |
| Machine weight | kg | 5000 | 6000 | 10000 | 13000 |

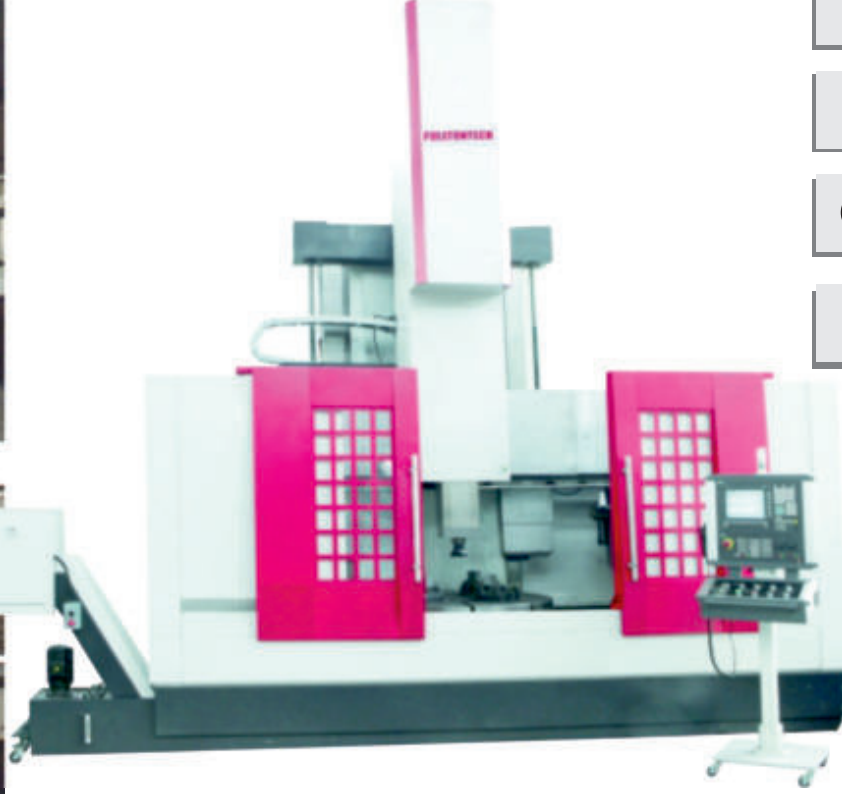


| MODEL | BİRİM | GLG-1270 | GLG-1470 | |
|---|----------------|---|------------------------------|--|
| TABLA | | | | |
| Tabla ebadı | MM(inch) | 1200 x 650 (47.2" x 25.6") | 1500 x 600 (59" x 23.6") | |
| Çalışma alanı | MM(inch) | 1300x 650 (51.2" x 25.6") | 1400x 650 (55.1" x 25.6") | |
| Tee slots (CD x W x NO) | MM | CD 100x18x5 | CD 100x18x5 | |
| Tabla yükü (max.) | KG(lbs) | 1200(2640) | 1500(3300) | |
| HAREKET MESAFESİ | | | | |
| X-ekseni | MM(inch) | 1200(47.2") | 1400(55.1") | |
| Y-ekseni | MM(inch) | 650(25.6") | 650(25.6") | |
| Z-ekseni | MM(inch) | 650(25.6") | 650(25.6") | |
| Spindle nose to table surface | MM(inch) | 100-760 (3.9"-30") | 100-760 (3.9"-30") | |
| Spindle center to column surface | MM(inch) | 700(27.6") | 700(27.6") | |
| X.Y.Z. Axis Ball screws dia | MM | 40xPitch12 | 40xPitch12 | |
| SPINDLE | | | | |
| Spindle koniği | | BT 40 / CAT 40 (opt: BT 50) | | |
| Spindle hızı - standard ulaşma | RPM | | | |
| Compatible with various types of spindles | kayışlı | Bt40 8,000 / 10,000 / 12,000 Bt50 8,000 / 10,000 | | |
| | Direct Drive | opt BT40 10,000/12,000/15,000-Direct drive Bt50 10,000/12,000-Direct drive | | |
| | Built-in Drive | opt BT40 16,000/20,000/24,000/30,000-Built in BT 50 12,000/15,000/20,000 – Built in | | |
| İLERLEME HIZI | | | | |
| kesme hızı (X, Y, Z eksen) | MM/MIN | 1-10000(Depending Controller) | | |
| 3 eksenli kızak | | LINEAR BALL SLIDE, opt: LINEAR ROLL SLIDE | | |
| Boşta ilerleme hızı oranı (X/Y/Z eksen) | MM/MIN | 30/30/24 | | |
| ATC | | | | |
| Standart erişim kapasitesi | PCS | 24 (Arm) | | |
| Opsiyonel ulaşım kapasitesi | PCS | 32/40(Chain Type), 30(Arm) | | |
| Takım seçimi | | Bi-directional & min.path | | |
| Maksimum takım çapı x uzunluk | MM(inch) | Armless Type: 80 x 250(3.1"x9.8"), Arm Type: 80 x 250(3.1"x9.8") | | |
| Maksimum takım ağırlığı | KG(lbs) | Armless 6(13.2) / Arm 8(17.6) | | |
| Gerekli hava gücü (basıncı) | | 6KG/cm | | |
| Takım kolu | | BT40, ISO40 or CAT40 (Option) | | |
| MOTOR | | | | |
| Spindle Motor gücü | KW(HP) | Std: 7.5KW(10HP), opt: 11KW(15HP) | | |
| LINEAR BİLYE YOLU | | | | |
| X/Y/Z eksen | | 45x2sets/30x4sets/45x2sets | | |
| Blok başına kızak yolu eksen | | 6 / 8 / 6 blocks | | |
| Soğutma pompası | HP | 1/2 | | |
| Power Supply | | STD: 20KVA | | |
| Net ağırlık | KG(lbs) | 7100(15620) | 7500(16500) | |
| EBAT | | | | |
| A | cm | 340 | 380 | |
| B | cm | 233 | 233 | |
| C | cm | 200 | 200 | |
| D | cm | 80 | 81 | |
| E (kayış/şanzıman spindle) | cm | 310/320 | 320/330 | |

CNC DİK TORNA SERİSİ



ATC is an option



| TEMEL ÖZELLİKLER | BİRİM | MODEL | | | | |
|---------------------------------------|--------|--|-----------|----------|----------|-----------|
| | | Ck5112 | Ck5116 | Ck5120 | Ck5123 | Ck5126 |
| Dik taret kesme çapı (max.) | mm | 1250 | 1600 | 2000 | 2300 | 2600 |
| Çalışma tablası çapı | mm | 1000 | 1400 | 1800 | 2000 | 2250 |
| Max. işleme yüksekliği | mm | 1000 | 1200 | 1400 | 1400 | 1600 |
| Max. işleme ağırlığı | ton | 3,5 | 5 | 8 | 8 | 10 |
| Çalışma tablası çevirme hızı | r/min | 2-250 | 2-200 | 2-120 | 2-120 | 2-80 |
| Çalışma tablası çevirme derecesi hızı | step | 4 etaplı değiştirme sırası, teker teker kademesiz erişme | | | | |
| Dik takım başlığı max. kesme gücü | N. | 17000 | 25000 | 40000 | 40000 | 50000 |
| Takım başlığı yatay hareket | mm | 850 | 1020 | 1115 | 1400 | 1500 |
| Takım başlığı dikey hareket | mm | 750 | 750 | 750 | 750 | 800 |
| Kater | | Elektrikli 4 pozisyon | | | | |
| Takım başlığı hareket hızı | mm/min | | 8000/3000 | 3000 | 3000 | 3000 |
| Geçiş rayı hareket mesafesi | mm | 600 | 850/1000 | 890/1240 | 990/1240 | 1240/1640 |
| Geçiş rayı hareket yolu | mm/min | 660 | 660 | 440 | 440 | 440 |
| Takım kolu bölümü (Boy x Ağırlık) | mm | 32x32 | 40x40 | 40x40 | 40x40 | 40x40 |
| Ana motor | kW | 37 | 45 | 45 | 45 | 45 |
| Makina Net ağırlığı | ton | 9 | 16 | 16 | 19,5/22 | 28/30 |
| CNC sistemi | | Siemens/Fanuc | | | | |

CNC DİK TORNA SERİSİ



| TEMEL ÖZELLİKLER | BİRİM | MODEL | | | |
|----------------------------------|--------|--------|--------|---------------|--------|
| | | Ck5225 | Ck5228 | Ck5231 | Ck5235 |
| Dik taret kesme çapı (max.) | mm | 2500 | 2800 | 3100 | 3500 |
| Çalışma tablası çapı | mm | 2250 | 2250 | 2830 | 2830 |
| Max. işleme yüksekliği | mm | 2000 | 2000 | 2000 | 2000 |
| Max. işleme ağırlığı | ton | 10 | 10 | 10 | 10 |
| Tabla çevirme torku (max.) | N.m | 63000 | 63000 | 63000 | 63000 |
| Sağ takımı ana işleme kapasitesi | N. | 35000 | 35000 | 35000 | 35000 |
| Sol takımı ana işleme kapasitesi | N. | 30000 | 30000 | 30000 | 30000 |
| Takım tutucu | | | | 3000 | |
| Çalışma tablası kademe hızları | step | | | 3000 | |
| Çalışma tablası hızı | r/min | 1-80 | 1-80 | 1-80 | 1-80 |
| Takım başı yatay hareket | mm | 1400 | 1400 | 1400 | 1400 |
| Takım başı dikey hareket | mm | 1000 | 1000 | 1000 | 1000 |
| Takım başı kademeli hareket hızı | mm/min | 3000 | 3000 | 3000 | 3000 |
| Geçiş rayı kademeli hareket hızı | mm/min | 350 | 350 | 350 | 350 |
| Ana motor | kW | AC55 | AC55 | AC55 | AC55 |
| CNC sistemi | | | | Siemens/Fanuc | |

BORVEK SERİSİ



| TEMEL ÖZELLİKLER | BİRİM | Tk6511 | Tk6513 | Tk6516 |
|------------------------------------|--------|---------------|---------------|---------------|
| Boring spindle diameter | mm | 110 | 130 | 160 |
| Dia. of milling spindle | mm | 221,44 | 221,44 | 240 |
| Spindle koniği | | ISO50 | ISO50 | ISO50 |
| Spindle hızı | rpm | 10-2500 | 2-1500 | 2-1500 |
| Spindle motor gücü | kW | 17 | 37 | 37 |
| Boring Spindle Max. Torku | N.m | 1077 | 3150 | 3150 |
| Max. Spindle thrust capacity | N.m | 15000 | 25000 | 25000 |
| Ram boyutu (ExB) | mm | -- | 420x480 | 480x520 |
| Tabla boyutu (ExB) | m | 1,4x1,6(2x2) | 2x2(2x2,5) | 2x2(2x2,5) |
| Max. workpiece load | ton | 10-20 | 20-35 | 20-40 |
| Transverse of spindle head (L) | m | 2(2,5/2/4/5) | 2(3/4/5) | 2(3/4/5) |
| Vertica travel of spindle head (Y) | m | 1,6(2) | 2(2,5/3) | 890/1240 |
| Lonitudinal travel of column (W) | m | 1,5 | 1,5 | 1,5(2) |
| Axial travel of spindle (Z) | mm | 600 | 800 | 800 |
| Ram travel (B) | mm | -- | 800 | 800 |
| Tabla dönüşü (B) | degree | 360 | 360 | 360 |
| Pozisyon doğruluğu | mm | 0,02 | 0,025 | 0,025 |
| | mm | 0,03 | 0,03 | 0,03 |
| | mm | -- | 0,02 | 0,02 |
| | mm | 10" | 10" | 10" |
| Tekrarlanabilirlik | mm | 0,015 | 0,02 | 0,02 |
| | mm | 0,025 | 0,025 | 0,025 |
| | mm | -- | 0,015 | 0,015 |
| | mm | 7" | 7" | 7" |
| CNC sistemi | | Siemens 840 D | Siemens 840 D | Siemens 840 D |
| | | Fanuc 18i/31i | Fanuc 18i/31i | Fanuc 18i/31i |
| Makina Net ağırlığı | kg. | 42000 | 58000 | 63000 |



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