



→ IWP Kesme Kafası (abrasive+safsu), Standart Abraziv dozaj valfi

- Pnömatik valf ON/OFF (Normalde kapalı)
- Karıştırma tübü (mixing tube)
- Orifis (elmas safir ruby)
- Nozul (focusing tube) 9,43mmOD
- Maksimum kullanılabilir orifis çapı 0,36mm
- Abraziv Dozaj Ünitesi
- Anti back wash valve (Suyun hazneye ulaşarak garnet abrazivini ıslatmasını engeller)
- Elektrik kontrollü mükemmel dozaj ayarı

→ IWP Pneumatic Cutting Head

- Mixing tube
- Orifice
- Nozul (focusing tube)
- Max. orifice dia. 0,36mm
- Abraziv Dosing Unit
- Anti back wash valve
- Patented USA



→ BHTD (Böhler) BFT 40.37
HIGH PRESSURE PUMP 50 HP / 4.000 bar

- 420 MPa design pressure, 400 MPa max. continuous working pressure
- 3.8L/min ax. flow rate
- 37 kW power consumption (400V/ 50 Hz)
- Hydraulic drive with axial piston pump and hydraulic pressure/ flow controller
- Pressure adjustment via proportional valve
- Oil cooling via integrated oil/water cooler as a standard
- Aluminum oil tank with 130 liter hydraulic oil ISO VG 46
- 1.6 liter accumulator according to pressure equipment directive 2014/68/ EU
- On/ Off valve to switch-off feed water supply when the pump is stopped
- Double low pressure filter unit, mesh size 5 um and 1.2 um
- Bleed down valve pneumatically actuated
- Control panel with touch screen
- Display of all warning and monitoring functions in plain text
- Continuous pressure adjustment from 50 MPa up to maximum pressure
- Connection for external pressure adjustment (set value with 0-10 V)
- Connection for external start/ stop and emergency stop
- Connection for external signal for pressure release
- Connection for external report of ready operation/ malfunction
- Connection for control signal of cutting head to avoid pressure increase switch off
- Electric and electronic components installed in the cabinet
- Remote control of all signals via UDP(User Data Protocol) with ethernet connection
- Additional operating option via web server (possible with each standard browser)
- Hydraulic and high pressure components together on a base frame
- Booster pump
- Oil/ Air Heat exchanger
- Compact design, including housing, tubing and wiring
- Sound insulated housing with swivelling top covers and removable side walls
- Spare part kit, HP sealings and check valves
- Special mounting tools for high pressure sealing an Special lubricants

COMPACT WATERJET CUTTING MACHINE

YÜKSEK BASINÇLI COMPACT SU JETİ KESİM MAKİNASI

- 1000mm / 1000mm Portal Çalışma Tablası
Portal Cutting Table
- BFT Ecotron 50HP 4.000 bar
- IWP Kesme Kafası
Cutting Head
- Manuel abrasive regülatörü
Manuel abrasive regulator
- BECKHOFF CNC Kontrol Ünitesi ve CONTRANEST Waterjet yazılımı
BECKHOFF CNC Control Unite and CONTRANEST Waterjet software
- Merkezi Yağlama
Centralised Lubrication



STORMA WJ1010

www.usel.com.tr



Makina Sanayi ve Tic. Ltd. Şti.

İMES Sanayi Sit. A Blok 104. Sokak No:5
Y. Dudullu Ümraniye İstanbul
Tel: +90 216 526 45 75 Fax: +90 216 526 45 76
www.usel.com.tr info@usel.com.tr



STORMA WJ1010

COMPACT WATERJET

YÜKSEK BASINÇLI COMPACT SU JETİ KESİM MAKİNASI
COMPACT WATERJET CUTTING MACHINE

1000 x 1000mm

Net Kesim alanı
Cutting Area

100 mm Kalınlık

CNC Kontrollü Kesim
CNC Controlled Cutting

0,05 mm'den küçük

Mekanik Hassasiyet
Less than 0.5mm Mechanical Accuracy

4000 Bar 50 HP

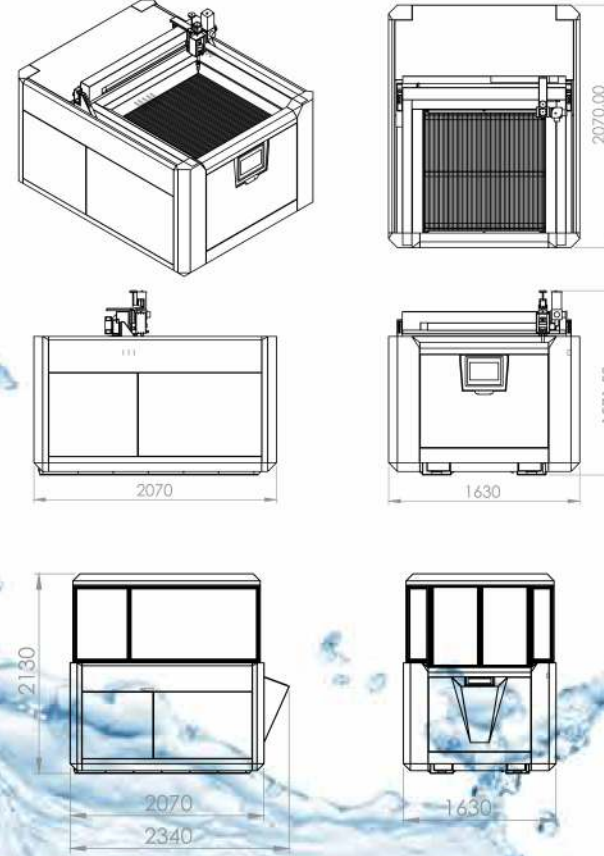
Yüksek Basınç
High Pressure

0,05 mm'den küçük

Tekrarlama Hassasiyeti
Less than 0.5mm Repeatability Accuracy

%50 Daha Ekonomik

%50 Daha Uygun Fiyatıyla Compact WaterJet
Compact WaterJet with 50% More Affordable Price



Öne Çıkan Detaylar Highlights



BECKHOFF CNC Kontrol Ünitesi



Yüksek kesim hassasiyeti



Geniş Çalışma Alanı

Endüstrinin Her alanında In All Areas of Industry



- Mekanik Hassasiyet / Cutting Accuracy
 - Tekrarlama Hassasiyeti / Repeatability $\pm 0.05 \text{ mm}$
 - Kesme Hızları X-Eksen/Axis 0 - 30.000 mm/min
 - Highest cutting speed Y-Eksen/Axis 0 - 30.000 mm/min

- Tabla Yapısı
 - Portal tip gövde, 2 kat çinko esaslı astar ve 2 kat poliüretan akrilik boya, kapaklar ve koruyucular fırın boyalı
 - Portal (köprü) tip gantry portal tip tamamen gerilme giderme tavlama uygulanmış tabla ile bohrwerk işlemine tabi tutulmuş montaj yüzeyleri
 - Paslanmaz çelik kenar korumaları 0 (sıfır) pozisyonu için proximity switch malzeme yükleme boşaltmasına mani olmayan komple açık alan (standart makina)
 - Değişebilir ızgaralar, 950mm tabla yüksekliği

- Hareket sistemi
 - Sızdırmaz koruyucu içerisinde lineer kızaklar (x ve y eksen)
 - X ekseninde ve y ekseninde bilyalı vida/hassas kremayer/ lineer kızaklar, körük korumalı
 - X, y ve z ekseninde servo motorla (FAGOR) kontrol elektronik merkezi yağlama sistemi mekanik/elektrikli ürünler, alman menşei ağırlıklıdır

- Table Structure
 - Bridge Type Table Rigid Construction , Gantry control, bellow covers and protections
 - Table Square tubular frame high strength and stiffness, stainless steel edge profile
 - Internal location of the linear units inside the frame
 - Proximity switches for Zero (reference) point and Extra Route
 - Complete open area for the loading-unloading of material
 - Interchangeable galvanized grids table
 - Total wght.(without water):1.500 kg

- Movement System
 - Linear Guides
 - X ve Y Automatic Internal Lubrication System of linear units
 - Ball Screw system of X and Y axis
 - Manual Z axis (Opti. Auto)
 - Servo controlled CNC movement of the X-Y axis with low backlash Gearboxes with Brushless AC servo motors,
 - digital communication
 - Sealing protections by a rubber belt on the linear unit frame and by vertical external bellows
 - Location of the linear units inside the table frame for an higher protection

- CNC Kontrol Ünitesi ve CAD Yazılımı
 - BECKHOFF CNC ve CONTRANEST yazılım, Standard 12" colored touch screen
 - Display: TFT WVGA 800x480 pixel (format 15:9) with touch screen, renkli Supply 24 Vdc, min. 1GB memory, USB input
 - CAM Yazılımı, DXF formatında okuma, süre ve uzunluk hesaplama, simulasyon, piercing option, nesting, high-low pressure selection, Pump control

- CNC Control Ünitesi and Software
 - Beckhoff CNC Control Unit
 - Display: TFT WVGA 800x480 pixel touch screen, colored 15"
 - Supply 24 Vdc, min. 1GB memory, USB input
 - Contranest CAM Software,
 - Piercing option, nesting, high-low pressure selection, Pump control (pump includes proportional valve)

