

CMS EASYLINE
Water Jet Cutting Machine

The Italian CMS Waterjet system is capable of cutting a wide variety of materials using a very high pressure waterjet and abrasive mineral. Waterjet cutting is one of the fastest growing cutting processes around the globe and is used across many engineering and fabrication sectors. It is the preferred method for cutting materials that are sensitive to high temperatures generated by other methods such as laser and plasma systems.



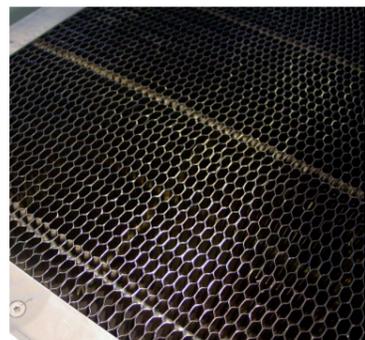
Optional Anti Collision Probe



Standard Bed



Special Application Bed



Honey Comb Bed



TECHNICAL SPECIFICATION

EASYLINE	1010	2020	2040	2060
X Axis	1000mm	2000mm	4000mm	6000mm
Y Axis	1000mm	2000mm	2000mm	2000mm
Z Axis	220mm	220mm	220mm	220mm
Rest Surface	1210 x 1225 mm	2210 x 2225 mm	4210 x 2225 mm	6210 x 2225mm
Over all Dimensions	1936 x 2393 mm	2936 x 3393 mm	4936 x 3393 mm	6936 x 3393 mm

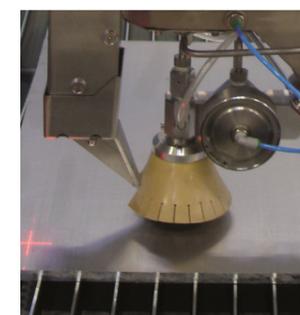
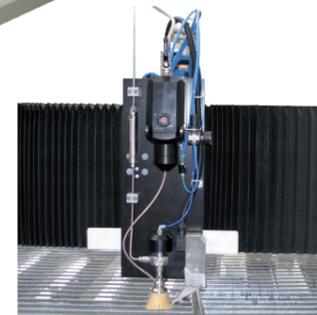
The Easyline range of waterjets offer all customers an entry level accurate, cost effective waterjet cutting system. This system is capable of cutting a wide variety of materials using a very high pressure jet of water or a mixture of water and abrasive. Waterjet cutting is often used for fabrication and engineering parts. It is the preferred method when the materials being cut are sensitive to the high temperatures generated by other methods. Waterjet cutting is used in various industries including mining and aerospace for cutting, shaping and reaming.

FEATURES

- Mobile Console with Notebook PC
- Accurate linear motion by rack and pinion, protected by heat welded bellows ensuring perfect tightness against water and dust
- Automatic lubrication system
- Cuttinghead equipped with touch feeler to adjust automatically the cutting head height
- Working surfaces dedicated to different cutting applications
- Cyclone abrasive removal system
- Protection of the work area by light barriers
- Cantilever with independent tank which allows an ease of access from the three open sides
- 180kg Abrasive Feeding System

OPTIONS

- 30/60 Hp Easy Pump Pressure Intensifier
- 30/60/120 Hp Jetpower Evo Pressure Intensifier
- Xstream Pressure Intensifier
- Laser pointer
- Anti-collision feeler
- Drilling Unit
- Electronic Hopper
- 330kg /2000kg Abrasive Feeding System



Light Guards



CMS MILESTONE
Water Jet Cutting Machine

The Milestone 1720 waterjet offers all customers an easy and essential cutting machine. This system is capable of cutting a wide variety of materials using a very high pressure jet of water or a mixture of water and abrasive. Waterjet cutting is often used for fabrication and engineering parts. It is the preferred method when the materials being cut are sensitive to the high temperatures generated by other methods. Waterjet cutting is used in various industries including mining and aerospace for cutting, shaping and reaming.

- FEATURES**
- Cutting robot management hardware and software
 - Precise rack and pinion transmission
 - Monolithic base with side openings for loading and unloading
 - Light barriers
 - Support plate
 - 330kg abrasive feeding system



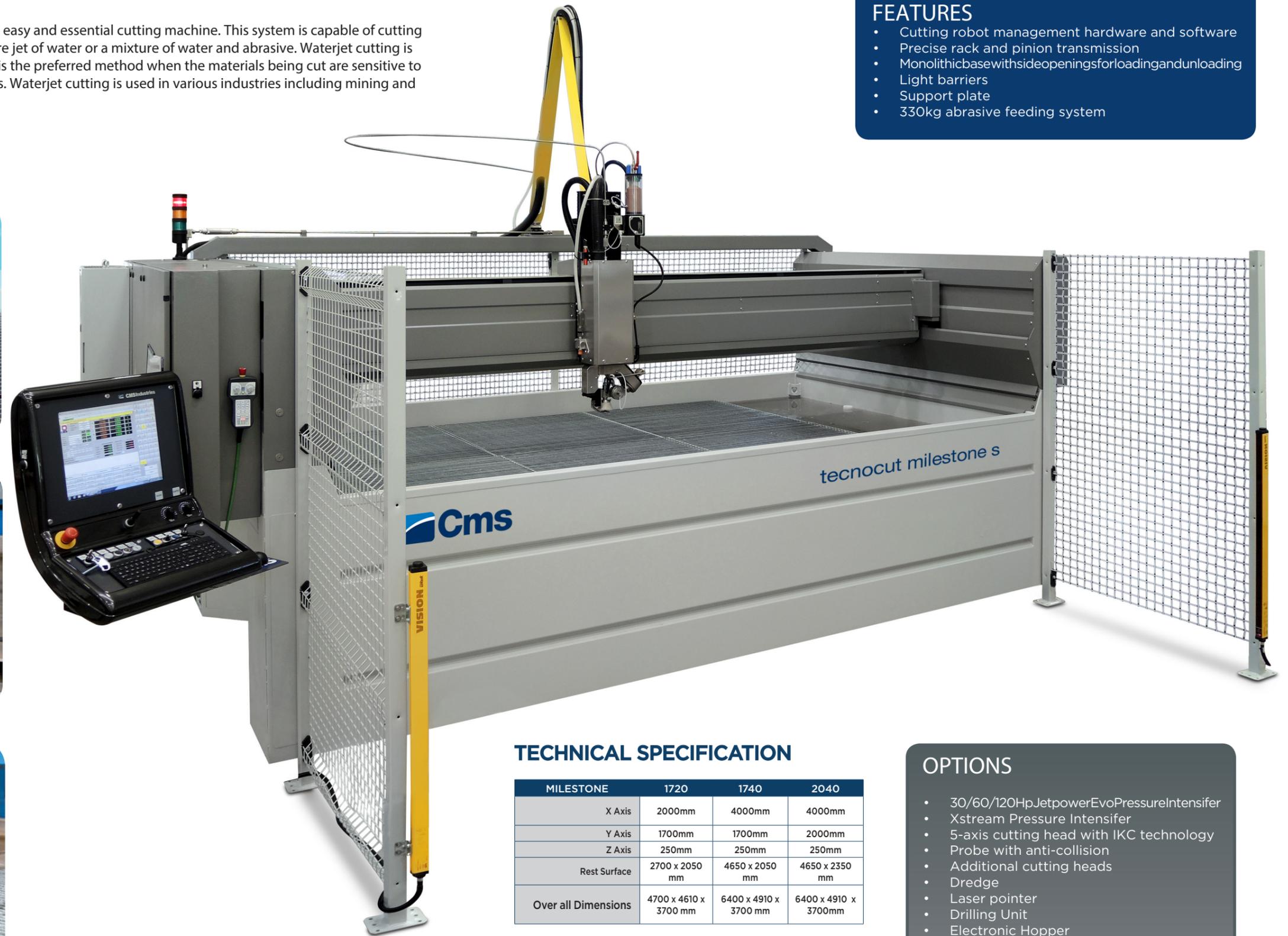
OPTIONAL COLLISION PROBE



OPTIONAL ROTATING AXIS FOR PIPES



OPTIONAL 5 AXIS CUTTING HEAD



TECHNICAL SPECIFICATION

MILESTONE	1720	1740	2040
X Axis	2000mm	4000mm	4000mm
Y Axis	1700mm	1700mm	2000mm
Z Axis	250mm	250mm	250mm
Rest Surface	2700 x 2050 mm	4650 x 2050 mm	4650 x 2350 mm
Over all Dimensions	4700 x 4610 x 3700 mm	6400 x 4910 x 3700 mm	6400 x 4910 x 3700mm

- OPTIONS**
- 30/60/120Hp Jetpower Evo Pressure Intensifier
 - Xstream Pressure Intensifier
 - 5-axis cutting head with IKC technology
 - Probe with anti-collision
 - Additional cutting heads
 - Dredge
 - Laser pointer
 - Drilling Unit
 - Electronic Hopper
 - 2000kg Abrasive Feeding System

CMS IDROLINE S HYDRO ABRASIVE
Water Jet Cutting Machine

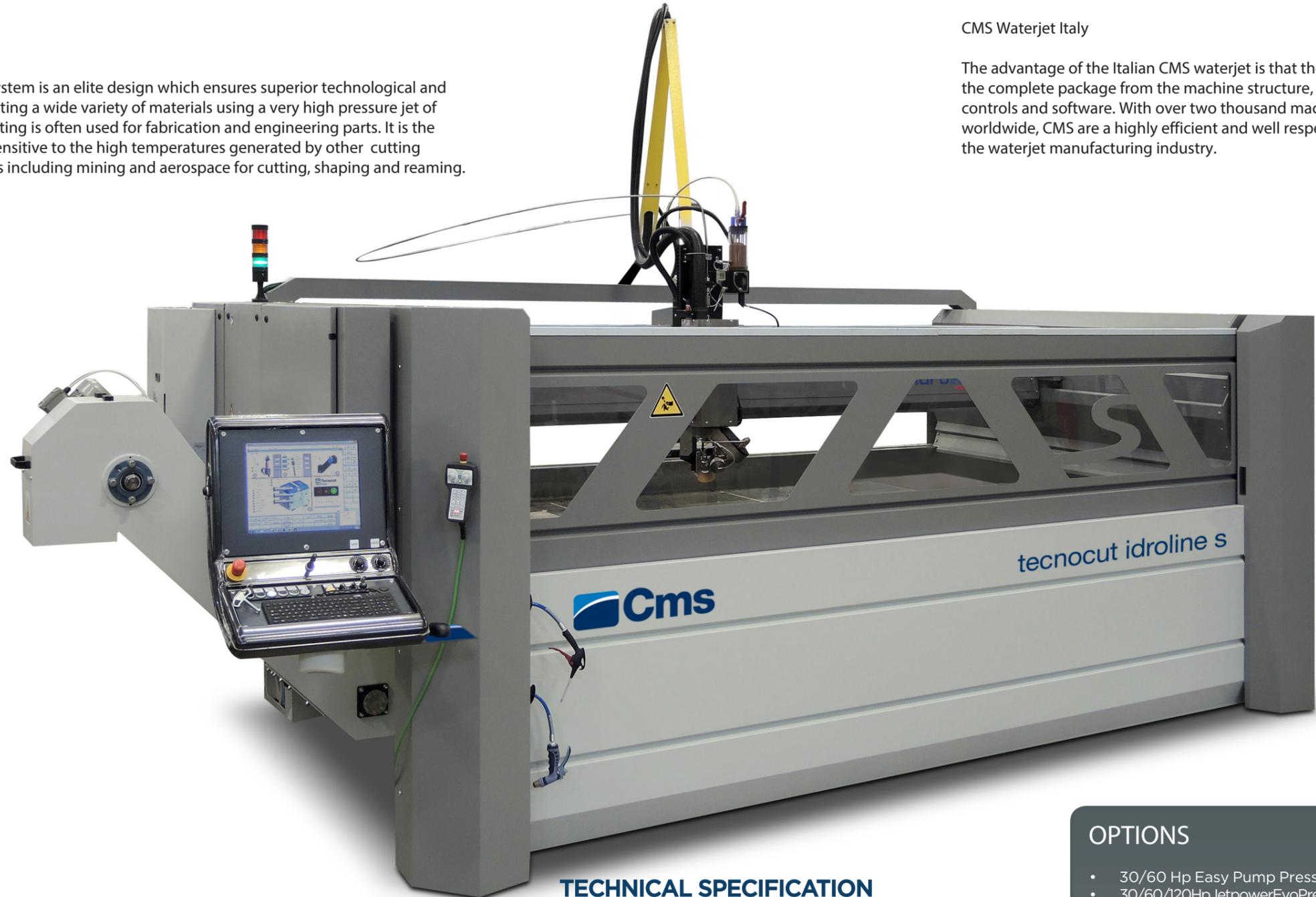
The Idroline S 1720 hydro-abrasive waterjet cutting system is an elite design which ensures superior technological and productive performance. This system is capable of cutting a wide variety of materials using a very high pressure jet of water or a mixture of water and abrasive. Waterjet cutting is often used for fabrication and engineering parts. It is the preferred method when the materials being cut are sensitive to the high temperatures generated by other cutting methods. Waterjet cutting is used in various industries including mining and aerospace for cutting, shaping and reaming.

CMS Waterjet Italy

The advantage of the Italian CMS waterjet is that they manufacture the complete package from the machine structure, pump, controls and software. With over two thousand machines installed worldwide, CMS are a highly efficient and well respected within the waterjet manufacturing industry.

FEATURES

- Digital CNC communication with remote push-button panel
- New Z axis strokes up to 350mm 3 axis, up to 250mm 5 axis and tube cutting up to 500mm
- OSAI cnc with control panel to check the system's main functional parameters
- Stand grid plate
- Electronic hopper for abrasive automatic monitoring with sensors for cutting parameters automatic control
- Automatic hose reel
- 330kg Abrasive Feeding System



SETTING & SQUARING DEVICE



DREDGE

TECHNICAL SPECIFICATION

IDROLINE S	1720	1730	2040
X Axis	2000mm	3000mm	4000mm
Y Axis	1700mm	1700mm	2000mm
Z Axis	350mm	350mm	350mm
B Axis	+/- 60°	+/- 60°	+/- 60°
R Axis	Tubes 42>508mm Length Max 2570mm Weight Max 400kg	Tubes 42>508mm Length Max 2570mm Weight Max 400kg	Tubes 42>508mm Length Max 2570mm Weight Max 400kg
Support Plane	2650 x 2050 mm	4600 x 2050 mm	4600 x 2350 mm
Rest Surface	2700 x 2050 mm	3700 x 2050 mm	4650 x 2050 mm
Over all Dimensions	4700 x 4610 x 3700 mm	5700 x 2700 x 3700 mm	6400 x 3000 x 3800 mm
Weight	3500kg	4000kg	4500kg

OPTIONS

- 30/60 Hp Easy Pump Pressure Intensifier
- 30/60/120HpJetpowerEvoPressureIntensifier
- Xstream Pressure Intensifier
- Probe system for automatic adjustment of cutting head distance from the machine workpiece
- Drilling Head
- Laser pointer
- Rotating axis for pipe processing
- Setting device
- EWL - Electronic Water Level gauge (max 100mm)
- 5 axis cutting head with IKC technology
- Anti-collision feeler pin
- Pipe processing
- 2000kg Abrasive Feeding System

TECNOCUT EASY PUMP

Water Jet Cutting Systems Intensifier



EASY PUMP 30PH	
Power	22.5/30 KW
Cylinders	2 n°
Max Water Pressure	4150/60.000 bar/psi
Max Flow Rate	2.5/0.66 lpm/gpm
Max Diameter	0.28/0.011 mm/in
Voltage	400V +/- 5% 50-60 Hz

Tecnocut have established a new concept of ultra high pressure intensifiers: two electronically, synchronized, parallel, independent cylinders that enable the machine to maintain constant pressure, avoiding typical drops of the traditional intensifiers with single opposite cylinder and pressure attenuator

FEATURES

- Perfect cutting quality due to the dynamics pressure signal stability.
- Electronic pressure control by software.
- Temperature, pressure and filter blocking electronic check up.
- Noiseless system to reduce the intensifier noise while running.



TECNOCUT JET POWER EVO

Water Jet Cutting Systems Intensifier

JET POWER	EVO 30PH	EVO 60PH	120PH
Power	22.5 kw	45 kw	90 kw
Cylinders	2 n°	3 n°	6 n°
Max Water Pressure	413.7 Mpa	413.7 Mpa	413.7 Mpa
Max Flow Rate	2.5 l/min	5 l/min	9 l/min
Max Diameter	0.28 mm	0.40 mm	0.50 mm
Voltage	400V +/- 5% 50-60 Hz	400V +/- 5% 50-60 Hz	400V +/- 5% 50-60 Hz

TECNOCUT XSTREAM

Water Jet Cutting Systems Intensifier



FEATURES

- Reduces operating costs by over 40%
- Cuts up to 50% faster
- Uses 30% less water
- Uses 30% less power
- Uses up to 50% less abrasive
- Pressure electronic control

XSTREAM	XP90-50	XP90-100	XP90-100 ADVANCED
Power	37kw	75 kw	75 kw
Cylinders	2 n°	4 n°	4 n°
Max Water Pressure	6200 Mpa	6200 Mpa	6200 Mpa Electronic Control
Max Flow Rate	2.61 l/min	5.50 l/min	5.50 l/min
Max Diameter	0.28 mm	0.43 mm	0.43 mm
Voltage	400V +/- 5% 50-60 Hz	400V +/- 5% 50-60 Hz	400V +/- 5% 50-60 Hz

MAXIMUM CUTTING SPEEDS PER MINUTE	Mater./Thickn. (mm)	EASY PUMP 20 HP JETPOWER EVO 30HP			EASYPUMP 60 HP JETPOWER EVO 60 HP			X STREAM XP 50-90			JETPOWER 120 HP			X STREAM XP 100-90		
		Q2	Q3	Q4	Q2	Q3	Q4	Q2	Q3	Q4	Q2	Q3	Q4	Q2	Q3	Q4
STAINLESS STEEL (304)	1	4255	2669	1917	6654	4174	2998	6645	4169	2995	8822	5534	3975	12921	8106	5823
	3	1203	755	542	1881	1180	848	1879	1178	847	2494	1564	1124	3653	2291	1646
	5	668	419	301	1045	656	471	1044	655	470	1386	869	625	2030	1273	915
	8	389	244	175	609	382	274	608	381	274	807	506	364	1182	742	533
	10	301	189	136	471	296	212	470	295	212	625	392	281	915	574	412
	20	136	85	61	212	133	96	212	133	96	281	177	127	412	259	186
	30	85	53	38	133	84	60	133	83	60	177	111	80	259	162	117
	50	47	30	21	74	46	33	74	46	33	98	62	44	144	90	65
	80	28	17	12	43	27	19	43	27	19	57	36	26	84	53	38
	100	21	13	10	33	21	15	33	21	15	44	28	20	65	41	29
Mild Steel (A36)	1	4285	2688	1931	6701	4204	3020	6693	4198	3016	8884	5573	4004	13013	8164	5864
	2	1931	1211	870	3020	1894	1361	3016	1892	1359	4004	2512	1804	5864	3679	2643
	3	1211	760	546	1894	1188	854	1892	1187	853	2512	1576	1132	2678	2308	1658
	4	870	546	392	1361	854	613	1359	853	612	1804	1132	813	2643	1658	1191
	5	673	422	303	1153	660	474	1051	660	474	1396	876	629	2044	1283	921
	8	392	246	177	613	385	276	612	384	276	813	510	366	1191	747	537
	10	303	190	137	474	298	214	474	297	214	629	395	283	921	578	415
	20	137	86	62	214	134	96	214	134	96	283	178	128	415	260	187
	30	86	54	37	134	84	60	134	84	60	178	112	80	260	163	117
	50	48	30	21	75	47	34	74	47	34	99	62	45	148	91	65
Copper (C110)	5	882	553	387	1379	865	621	1377	864	621	1828	1147	824	2678	1680	1207
	10	397	249	179	621	390	280	621	389	280	824	517	371	1207	757	544
	20	179	112	81	280	176	126	280	175	126	371	233	167	544	341	245
	30	112	70	51	176	110	79	175	110	79	233	146	105	341	214	154
	50	62	39	28	98	61	44	97	61	44	129	81	58	190	119	85
Titanium (6Al-4V)	5	836	587	422	1464	918	660	1462	917	659	1941	1218	875	2843	1784	1281
	10	422	265	190	660	414	297	659	413	297	875	549	394	1281	804	577
	20	190	119	86	297	1887	134	297	186	134	394	247	178	577	362	260
	30	119	75	54	187	117	84	186	117	84	247	155	111	362	227	163
Aluminum (2024)	8	1202	754	542	1879	1179	847	1877	1177	846	2492	1563	1123	3649	2289	1645
	10	930	583	419	1454	912	655	1452	911	654	1928	1209	869	2823	1771	1272
	20	419	263	189	655	411	295	654	410	295	869	545	391	1272	798	573
	30	263	165	118	411	258	185	410	258	185	545	342	246	798	501	360
	50	146	92	66	228	143	103	228	143	103	303	190	136	444	278	200
	60	118	74	53	185	116	83	185	116	83	246	154	111	360	226	162
	80	85	53	38	133	83	54	133	83	60	176	111	79	258	162	116
100	66	41	30	103	65	46	103	64	46	136	86	61	200	125	90	

Q2 = PLASMA QUALITY Q3=HD PLASMA QUALITY Q4 = LASER QUALITY

