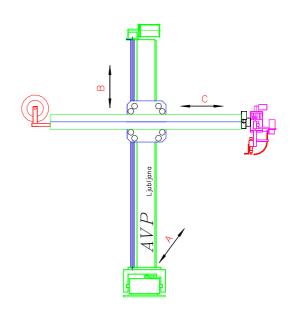
WELDING CONSOLE - KVS L





	KVS-L 1x1	KVS-L 2x2	KVS-L 3,5x2
A (mm)	AS REQUEST	AS REQUEST	AS REQUEST
B (mm)	1000	2000	3500
C (mm)	1000	2000	2000
DIFFERENT WELDING	TIG, MIG,MAG	TIG, MIG,MAG	TIG, MIG,MAG
PROCCESS	SAW	SAW	SAW

Consol welding machine is designed for welding different machine parts with different welding procedures TIG, SAW, MIG/MAG. It's composed from three parts:

Horizontal railway

- Horizontal movement by railway which is firmly fixed to the ground.
- Horizontal movement is manual (option el. motor)

Vertical pillar

- turning round its axle
- el. motor movement with constant speed

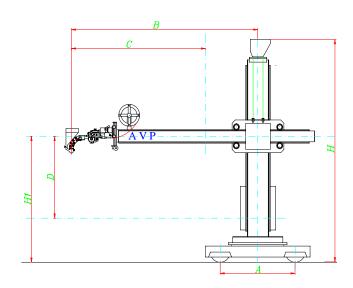
Welding arm

- el. motor movement with adjustment speed
- at the end of the arm it is fixed a welding head for selected welding procedure



WELDING CONSOLE KVS - T

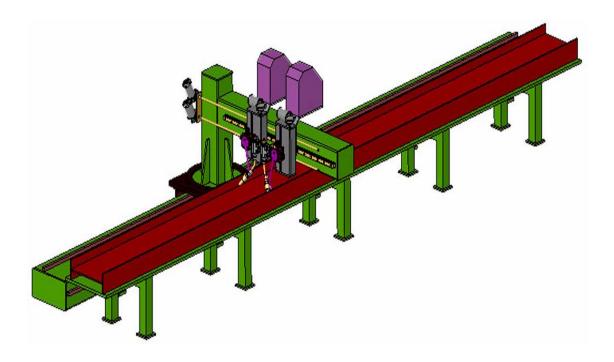




MODEL	A	В	C	D	Н	H1
KVS T 2,5 x 2,5	1700	4500	2500	2500	4750	3500
KVS T 3x3	1700	5000	3000	3000	5250	4000
KVS T 4x4	2150	6000	4000	4000	6550	5200
KVS T 5x5	2150	7000	5000	5000	7650	6200

Welding console is designed for welding bigger and heavier machine parts with different welding procedures (SAW, MIG/MAG). It's composed from three parts, lower part of console is a remote control and it's moving by railway which is firmly fixed on the ground. The movement is electro motor with adjustable speed. The vertical pillar with cross support is rotating on its axis. The movement of welding arm with torch is electro motor with adjustable speed.

WELDING CONSOLE KVS – T2



Technical characteristics:

- Length of welding 15 m
- Motor drive longitudinal movement with adjustable speed
- Transversal and vertical manual adjusted
- Machine water cooled torch, 2 pieces

Options:

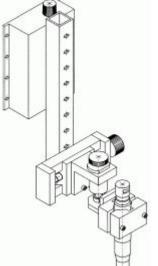
- Transversal and vertical manual no contact tracking
- Welding source, wire feed unit, water cooling, cable package, second part by selection

AVC ARC VOLTAGE CONTROL

AVC module

- positioning of the welding torch for the ignition distance (touch-retract)
- positioning for the welding distance
- arc voltage control for TIG welding processes
- automatic welding current detection
- HF security
- 4 quadrant motor control
- precision lengths control
- voltage sensor for the AVC arc length monitoring
- motor operated adjustable slide with 66 mm operating distance
- X axis with two limit switches as safety device and torch holding device





- Manually operated slide 50 mm
- Bearing joint with torch holder



- Motor driven slide, 66 mm or 100 mm travel length motor with tacho feedback limit switches, torch holder



LASER PROBE



...Improving productivity.....

Automating a welding process can dramatically improve productivity and reduce scrap and rework. Some means of seam tracking is normally required to fully realise these improvements, traditionally this has been mechanical probe or through arc sensing systems.

In practice these types of tracking systems require manual input and operators cannot be redeployed to productive tasks elsewhere. Mechanical probes have severe limitations such as welding thin sheet, tight butt welds and coping with tack welds. In addition they are prone to damage often resulting in scrap and rework. Laser Probe is the latest generation laser vision product from Meta Vision Systems and offers a unique combination of ease of use with sophisticated capability and high performance to fully automate welding processes.

Laser Probe is a non-contact seam tracking system based on well proven laser vision technology used in previous generation Laser Probe systems. In the last two years over 300 systems have been

successfully installed on new and existing welding.

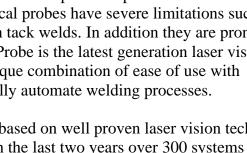


The features of the Laser Probe are:

- Suitable for TIG, MIG/MAG, sub arc, plasma and laser welding
- Operated by a simple pendant
- Capable of process speeds of up to 8m/min
- Easily interfaced to welding machine controllers
- Available with Laser Probe Tools software package for complex joints and applications

By overcoming limitations of alternative tracking system, Laser Probe hepls the welding manufacturing costs and improve product quality.

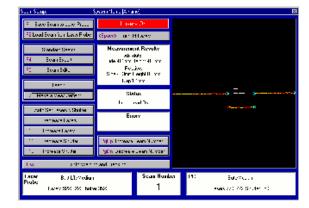




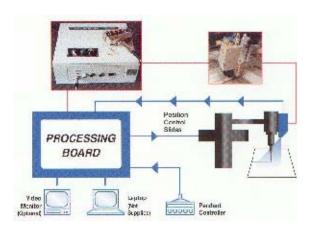
LASER PROBE

Laser Probe is a complete laser seam finding and tracking system. Each system can be configured depending on user requirements and consists of:

- Robust laser sensor head with a choice of 5, 10, 15, 30, 45 or 60 mm field of view.
- Sensor mounting plate (water cooled mount is optional)
- Camera cable connecting the sensor and the control box (10 m standard,up to 50m optional)
- Small control box with panel mounted on/off switch
- Video monitor (optional)
- Laser Probe Tools programming software and hand held pendan
- DC motorised cross slides 25-3,0t00mm length (optional)



The Laser Probe control system uses a single processing board instead of a PC. All software required for system operation resides on a flash memory device. Programming the Laser Probe is made simple by a Windows based software package called Laser Probe Tools. Laser Probe Tools is provided on a CD and is used on a lap top or PC connected to the Laser Probe system with a serial lead. After system installation and when programming is complete, settings are saved onto the processing board and Laser Probe Tools are disconnected. This protects settings during system operation.

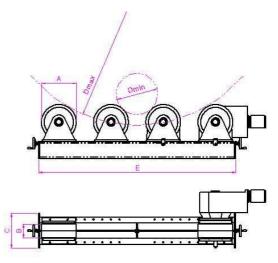






ROLLER BEDS ON 5 - 100 T





Roller beds ON 5 - 100t are use for rotating objects in field of welding, cutting, painting and positioning.

They are built from two independent units, one driving and other free. Both units can be longitudinally movable. Driving unit has one free and one drive wheel while other unit has free wheels.

Each unit is constructed from basic frame, wheels' carriers, wheels and supporting carrier in case of movable version. Rim of rotating ball-bearing wheels is hard-rubber coated. Rotating wheels' carrier can move along basic frame depending on diameter of threaten object and it is fasten on frame with screws.

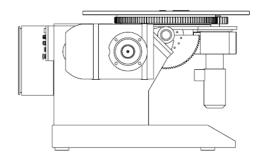
Rotating of object is remote controlled left or right with linear speed control.

Options: Wireless remote control

	MODEL	ON - 5t	ON - 10t	ON - 20t	ON - 40t	ON - 60t	ON - 100t
A (mm)		300	300	500	500	500	500
B (mm)		75	150	100	200	300	500
C (mm)		200	300	400	500	500	800
D (mm)		2200	2200	2200	2800	2800	3200
$\mathbf{D}_{\min}/\mathbf{D}_{\max}$		200/3800	200/3800	200/3800	400/5500	400/5500	400/5500
Load capacity (t/unit)		2,5	5	10	20	30	50
Rotation torque Nm		600	1200	3000	5000	6000	15000
Rotation speed		0,1-2	0,1-2	0,1-2	0,1-2	0,1-2	0,1-2
(m/min)							
Roller diameter /		250/75	400/100	400/200	500/200	500/300	500/500
width (mm)							
Roller material		PU	PU	PU	PU	PU	PU
Length (mm)	Drive unit	2500	2500	2500	3100	3100	3600
	Free unit	2200	2200	2500	3100	3100	3600
Width (mm)	Drive unit	500	500	700	800	900	1100
	Free unit	300	300	400	500	600	800
Remote control		included	included	included	included	included	included

ROTARY TABLE WP 800 - 50.000





Туре	Inclination Moment/ Nm	Turning Moment/ Nm	Plate diameter mm	Load Capacity (t)	Table inclination	RPM o/min
WP 800	2500	1200	800	0.8	0°-120°	0-1.5
WP 1500	4500	3000	1000	1.5	0°-120°	0-1
WP 3000	15000	9000	1200	3.0	0°-120°	0-1
WP 5000	25000	15000	1500	5.0	0°-120°	0-0.6
WP 10000	50000	30000	2000	10.0	0°-120°	0-0.5
WP 50000	250000	150000	4000	50.0	0°-120°	0-0.2

Rotary table WP800 – WP50.000 are universal for partial or complete welding automation with MIG MAG, TIG, PLAZMA and SAW process. Inclination: manual, drive or hydraulic. Circular propulsion is electric motor with adjustment speed.

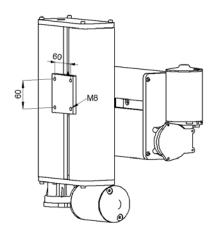


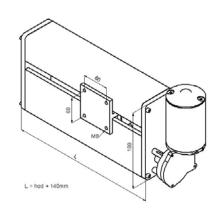


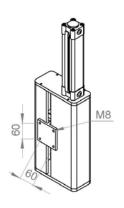
AVP d.o.o. Welding automation

Cesta v Log 15, 1351 Brezovica pri Ljubljani / SLOVENIJA tel: +386 1514 04 10, fax: +386 1514 04 12 e-mail: info@avp.si www.avp.si

ELEMENTS FOR AUTOMATION







Electric motor slide

Electric motor slide

Pneumatic slide

Use:

- for precise set up position of welding torch, even during welding
- set up position of torch in two axis
- moving torch in two axis
- automatic set up of torch with sensor use

Property:

- module building
- one- axis or two-axis electromotor movement
- stroke 50-300 mm, others by order
- DC electromotor 90 W, 42 V
- transfer of circular movement is linear over the spindle and spherical female screw
- robust make
- minimum maintenance

60 60 MB

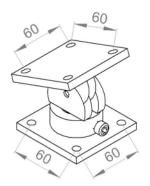
Additional equipment:

- Control box:

- Cross shaped manual slide
- Movement left-right, up-down. Switch on with joystick.
- Final switches
- Speed is linear adjustable with SCR (thyristor) regulation.

Other control boxes by order.

- Cross shaped manual slide
- Ring for torch
- Incline element

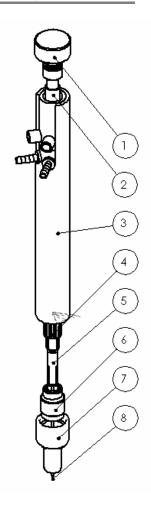




MACHINE TIG TORCHES

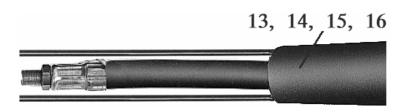
Tehnical data	TG 202S	TG 302S
Welding current	200A, 100%	300A, 100%
Length	3; 4 m	3; 4 m

- Air coolant
- Water coolant



Constituent parts of torch:

- 1 assenting tap
- 2 torch tube
- 3 torch isolation
- 4 center part
- 5 collet 1; 1,6; 2,4; 3,2
- 6 collet body
- 7 ceramics nozzle 6; 9; 11; 13 (l=30; l=50)
- 8 wolfram electrode 1; 1,6; 2,4; 3,2
- 13 air tube package 3m
- 14 air tube package 4m
- 15 water tube package 3m
- 16 water tube package 4m



MACHINE TORCH MG 505V water coolant

Technical data

Welding current, 60% load

Welding wire Length

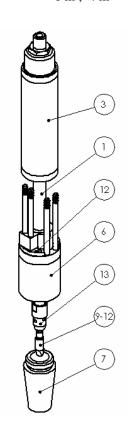
MG 505V

500 A, CO2

450 A, 60% mixture

0,8; 1,0; 1,2

1 m; 4 m



Component parts of torch

- 1 torch tube MG 505V
- 2 support
- 3 holder set (machine)
- 4 nut
- 4A nut
- 5 isolation
- 6 cooling body II.
- 7 gas nozzle MG 505V
- 9 contact nozzle 0,8
- 10 contact nozzle 1,0
- 11 contact nozzle 1,2
- 12 contact nozzle 1,6
- 13 tip adaptor MG 505S
- 20 coaxial cable MG 505V 1 m
- 21 coaxial cable MG 505V 4 m
- 22 connection element Iskra
- 23 connection element Binzel
- 24 connection element Uljanik-Esab
- 25 nut Iskra
- 26 nut Binzel
- 27 support sleeve Iskra-Binzel
- 28 support sleeve Uljanik-Esab
- 30 liner S Iskra
- 31 liner Teflon Iskra
- 32 liner S Binzel
- 33 liner Teflon Binzel
- 34 liner S Uljanik-Esab
- 35 liner Teflon Uljanik-Esab
- 40. water tube 1 m
- 41. water tube 4 m
- 42. water tube 1 m
- 43. water tube 4 m 44. jacket 1 m
- 45. jacket 4 m







Torch set

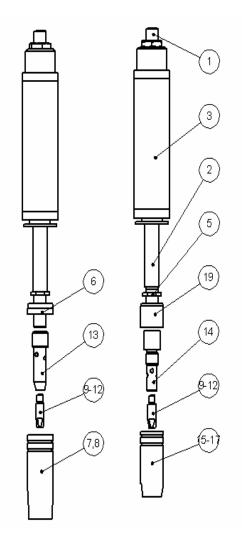
Central connection Iskra Central connection Binzel Central connection Uljanik



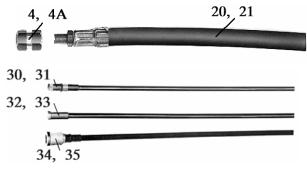
Welding automation

MACHINE TORCHES - air coolant

Technical data	MG 355S	MG 255S
Welding current, 60% load	350 A, CO2	250 A, CO2
	280 A, 60% mixture	200 A 60% mixture
Welding wire	0,8; 1,0; 1,2	0,8; 1,0; 1,2; 1,6
Length	1; 1,2; 1,5; 2; 3 m	



Component parts of torch: torch tube 2 isolation 3 holder 4 nut 4A nut 5 limit nut 6 limiter MG 355 gas nozzle 18 MG 355S 8 gas nozzle 21 MG 355S 9 contact nozzle 0,8 10 contact nozzle 1,0 11 contact nozzle 1,2 12 contact nozzle 1,6 13 tip adapter MG 355 14 tip adapter MG 255 15 gas nozzle 12 MG 255S 16 gas nozzle 16 MG 255S 17 gas nozzle 19 MG 255S 19 limiter MG 255 20 coaxial cable MG 355 21 coaxial cable MG 255 22 connection element Iskra 23 connection element Binzel 24 connection element Uljanik-Esab 25 nut Iskra 26 nut Binzel 27 support sleeve Iskra-Binzel 28 support sleeve Uljanik-Esab 30 liner S Iskra 31 liner Teflon Iskra







32 liner S Binzel33 liner Teflon Binzel34 liner S Uljanik-Esab