

AGS-TECH Inc.

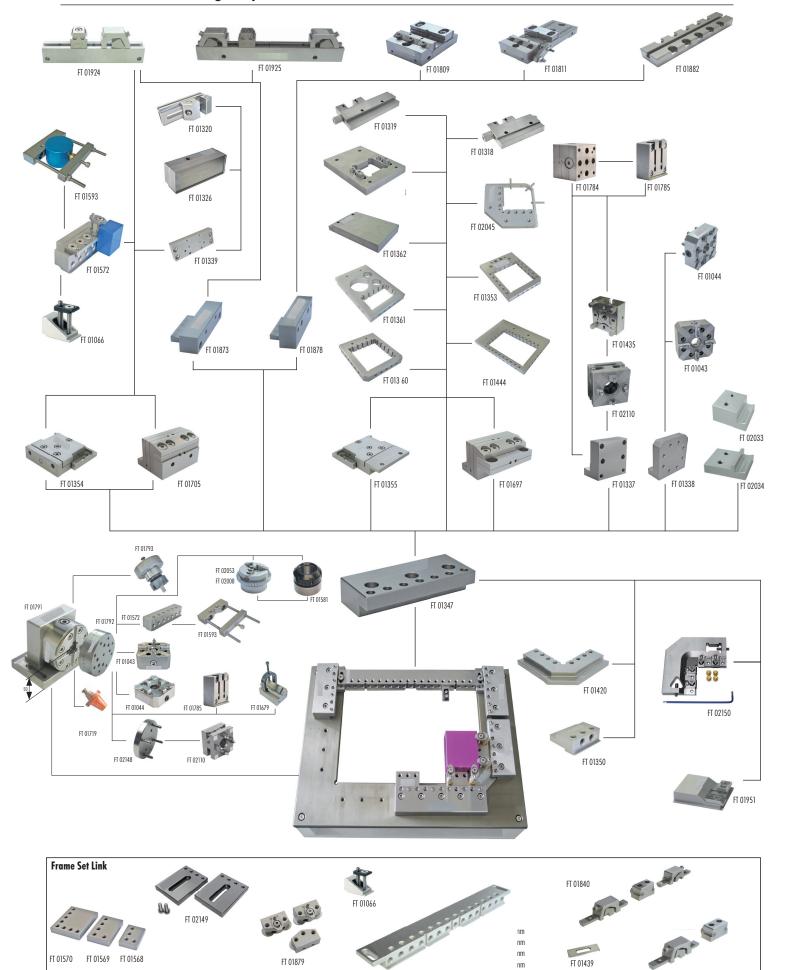
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WEDM tooling system

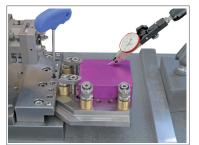
Patent pending



Extensive duties - simply resolved!







Presetting and control outside the machine



Simple, handy manipulation and transfer into the machine.



Clamped fast in reference position.

CLAMP

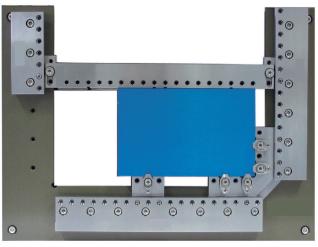


PRESET

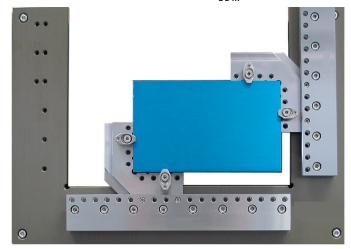


PROCESS

Ready for: ► EDM DRILLING WIRE EDM EDM

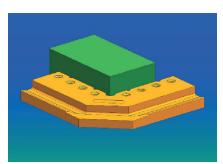


Modular layout in the machine with stoppers tixtures and multitunctional clamping bars.

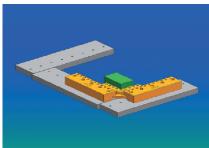


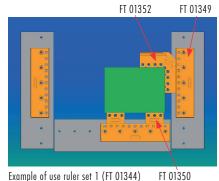
Large and small pieces can be clamped flexibly with an optimal accessibility into the working range of the machine.

A comprehensive, accurate clamping assortment completes the system

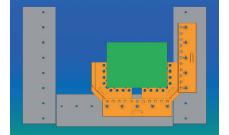


The parts can be palletised outside the machine...

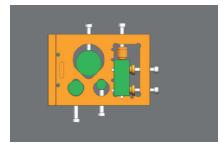




Example of use ruler set 1 (FT 01344)



Example of use with two corner sets 85 (FT 01352)



The universal pallet can be charged on a stone plate...

► The zero position is simple and with no effort warranted.



...and in no time at all be fixed in the machine.

WEDM tooling system

Optimises wire EDMing with the new wire tooling system

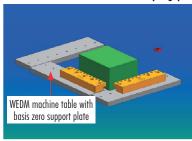
- Rationalisation through simple clamping
- Step ahead with smart solution

The new WEDM tooling system is developing continuously to the needs of the end users.

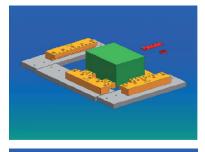
The WEDM clamping system provides:

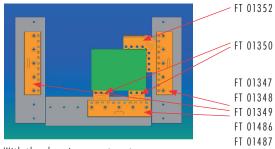
- accurate and extensive clamping possibilities
- economic and extendable solutions
- palletisable clamping elements
- compatible solutions to existing tooling systems

Provides multifunctional clamping possibilities

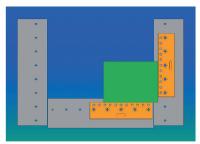


The basic ruler provides a reference stop and clamping beam for large parts and different clamping elements.



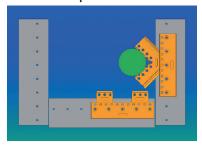


With the clamping assortment one can clamp collision-free and the free access to the work piece is warranted.

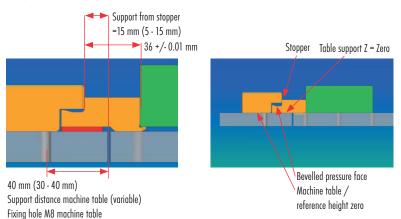


Large parts are clamped directly in aligned position.

Multifunctional, economic and palletisable clamping elements set up the basis of the WEDM tooling line

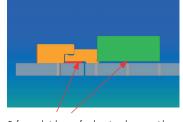


Example corner set 85 with round piece.



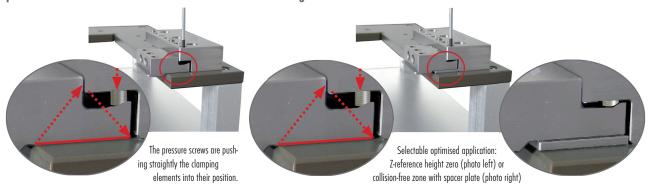
FT 01568
FT 01569
FT 01570

FT 01327
FT 01063
FT 01064
FT 01347 FT 01349 FT 01487
FT 01348 FT 01486



Reference height zero for clamping elements with clamping lips can be hoisted +3 mm with the spacer plate

The clamping concept is solved simply and efficiently. By pulling the pressure screw tight, the clamping elements are clamped very strong and precise into the reference position. The basic rulers are compatible with all Wire EDM-machines with working table chuck Z-O.



WEDM basic sets



Ruler set

The ruler set is an economic basis equipment. Suitable for all wire EDM machines with basis zero table and hole pattern 50 mm M8 and hole pattern from table edge 30 - 40 mm.

The set contains: 2 x FT 01349 FT basic ruler 230 mm / 2 x FT 01350 FT front spanner / 1 x FT 01352 FT corner set 85 / 2 x FT 01376 stopper / 2 x FT 01457* Spacer Plate 100 x 29 x 3 mm, with 2 x hole Ø 9 mm / 2 x FT 01947* Spacer plate 60 x 29 x h3 mm / comprehensive clamping applicances with support plates / brackets / screws / keys

Article no.	Article	Quantity	Weight	Code	
FT 01344	Ruler set	1 set	10.60 kg	W	
FT 02128	Ruler set Z+3mm**	1 set	10.60 kg	W	

^{*} Not included in FT 02128

^{**} FT 01789 and FT 01790 instead of FT 01352 and FT 01350



Ruler set

The ruler set ML is alike the ruler set FT 01344 but with basic rulers 230 mm ML. Suitable for all wire EDM machines with basis zero table and hole pattern 50 mm ML and hole pattern from table edge 30-55 mm.

The set contains: 2 x FT 01780 FT basic ruler 230 mm / 2 x FT 01350 FT front spanner / 1 x FT 01352 FT corner set 85 / 2 x FT 01376 stopper / 2 x FT 01457 Spacer Plate 100 x 29 x 3 mm, with 2 x hole Ø 9 mm / 2 x FT 01947 FTool Spacer plate 60 x 29 x h3 mm / comprehensive clamping applicances with support plates / brackets / screws / keys

Article no.	Article	Quantity	Weight	Code	
FT 01342	Ruler set ML	1 set	10.60 kg	W	



Corner set

The corner set is the perfect pallet for wire EDM plants. The corner set can be fixed left side, right side as well as frontal over 45°. The parts can be clamped outside the machine in the corner set and afterwards be clamped with the bead stops (basic ruler) in reference position of the machine. The clamping lips are lying in basic position on zero level. This zero level can be hoisted 3 mm with the spacer plates.

Dimension: leg length = 135 x 135 mm / height = 22 mm

The set contains: 1 x corner set / 2 x FT 01070 spacer plate 100 x 29 x 3 mm / screws / keys / brackets / support plates

Article no.	Article	Quantity	Weight	Code	
FT 01352	Corner set 85	1 set	2.60 kg	W	
FT 01420	Corner 85 (without accessories)	1 piece	1.26 kg	W	
FT 01675	Corner set 85 special with adjusting screws	1 set	2.60 kg	W	
FT 01789	Corner set 85 special +3 mm	1 set	2.60 ka	w	



Corner basic set 14/85

The corner basic set 14/85 is a simple, economic and flexible way to clamp the pieces in the wire cutting machine. The corner 14/85 can be fixed in three different directions in the machine and can cut small as well as big work pieces with the best possible accessibility. The removable supporting bracket allows to cut the piece without any collision risk of the below wire quide in the highest precise and fastest zero position.

Article no.	Article	Quantity	Weight	Code	
FT 01345	Corner basic set 14/85	1 set	4.05 kg	W	

WEDM basic sets



WEDM tool set

The WEDM tool set contains a practical assortment of corrosion-resistant screws, keys, brackets, support plates and bases. We recommend the set to every wire EDM user.

Article no.	Article	Quantity	Weight	Code	
FT 01071	WEDM tool set	1 set	4.07 kg	W	



Corner set 14/85 and 14/215 x 135

The corner set 14/85 supports the direct insert in the basic rulers.

Article no.	Article	Quantity	Weight	Code	
FT 02045	Corner set 14/85 (with brackets and screws)	1 set	1.75 kg	W	
FT 02044	Corner 14/85 (without brackets and screws)	1 piece	1.37 kg	W	
FT 02049	Spacer plate 100 x 29 x h8 mm (for swivel head FT 01697)	1 piece	0.17 kg	W	

Combination examples:

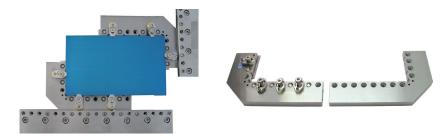




FT 02043 corner set 14 / 215 x 135

The FT corner set 14 / 164 / 84 has a height of 14 mm and can be screwed directly under the basic rulers, sinistral or dexter according to requirements. The tensioning bracket made of hardened stainless steel is delivered with three pieces of FT 02051 Z-0 base plate 3.3 mm and miscellaneous clamping material. With the option FT 02097 brass corner jaw block you can clamp the work pieces without Z-base plates on Z-0, designed to preclude any collisions.

Artic	cle no.	Article	Quantity	Weight	Code	
FT 0	2043	Corner 14/164 x 84	1 piece	2.07 kg	W	



WEDM basic sets



FT 02097 brass corner jaw block

The brass corner jaw block is an easy tool to clamp work pieces on Z-O levels and miscellaneous clamping elements with hole grids 20 mm, designed to preclude any collisions.

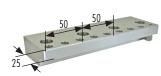
Article	e no.	Article	Quantity	Weight	Code	
FT 02	097	Brass corner jaw block M6 (set of 2 pieces)	1 set	0.23 kg	W	

Combination example:





Basic ruler and spanner



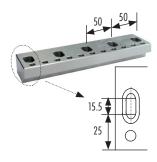
Basic ruler

The basic ruler are adjusted to the coordinate system of the machine and provide afterwards a fast clamping of work pieces or Fpallets and clamping elements in reference position.

Dimension: length = x mm / width = 60 mm / height = 30 mm

The set contains: 1 x basic ruler / 1 x FT 01376 stopper / the required attachement and pressure screws (FT 01373)

Basic rulers standard: Suitable for machine tables with hole pattern 50 mm from table edge 30-40 mm



Article no.	Article	Quantity	Weight	Code	
FT 01347	Basic ruler 140 mm	1 piece	1.75 kg	W	
FT 01348	Basic ruler 180 mm	1 piece	2.30 kg	W	
FT 01349	Basic ruler 230 mm	1 piece	2.80 kg	W	
FT 01486	Basic ruler 320 mm	1 piece	3.90 kg	W	
FT 01487	Basic ruler 380 mm	1 piece	4.70 kg	W	
Basic rulers w	vith long hole: Suitable for machine tables with hole pattern 50 mm from	table edge 30 -55 n	nm.		
FT 01858	Basic ruler 140 mm ML	1 piece	1.65 kg	W	
FT 01859	Basic ruler 180 mm ML	1 piece	2.20 kg	W	
FT 01780	Basic ruler 230 mm ML	1 piece	2.70 kg	W	
FT 01860	Basic ruler 320 mm ML	1 piece	3.80 kg	W	
FT 01820	Basic ruler 380 mm ML	1 piece	4.42 kg	W	



Side spanner

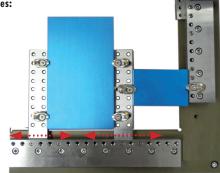
The side spanner has two bearing sides and provides a support of larger plates. The side spanner is suited excellent in combination with the corner set 85 (FT 01352) or with the front spanner (FT 01350).

Dimension: 215 x 50 mm / height = 22 mm

The set contains: 1 x side spanner / 1 x FT 01439 spacer plate 60 x 20 x 3 mm

Article no.	Article	Quantity	Weight	Code	
FT 01351	Side spanner	1 piece	1.43 kg	W	





Basic ruler and spanner

The the level Dim The FT 01350

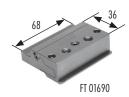
Front spanner

The front spanner provides a support plate for small parts or can be used in combination with the side spanner (FT 01351), the corner set 85 (FT 01352) or with the distance support mini (FT 01066). The clamping lip lies in basic position on zero level. This zero level can be hoisted 3 mm with the spacer plates.

Dimension: 55 x 60 mm / height = 22 mm

The set contains: 1 x front spanner / 2 x FT 01382 bracket ER34 corrosion-resistant

Article no.	Article	Quantity	Weight	Code	
FT 01350	Front spanner	1 piece	0.43 kg	W	
FT 01790	Front spanner special +3 mm	1 piece	0.48 kg	W	
FT 01690	Front spanner Z-Vario	1 piece	0.60 kg	W	





The front spanner Z-Vario (FT 01690) is continuously adjustable ca 0.2 mm

NEW Clamping solutions for the Ruler Set



Watch-maker wire tool set

The smaller the work pieces, the harder it is to clamp in a selected, aligned position.

The watch maker wire tool set is the right support, when flat plates or subtle stamps have to be clamped fast and accurate in the EDM wire cutting machine.

Assembling

- The watch maker wire tool set can be clamped fast and comfortable into the basic rulers on the table.
- Z-Support lies crash-free +2mm over Z-zero.
- In combination with two clamping sets you can as well clamp larger plates in the working area range.

Technical data

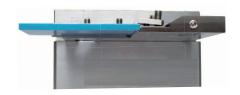
- Rust resistant, hardened, precision ground stainless steel
- External dimension: 120 x 120 x 12 mm
- Clamping dimension: 60 x 60 mm
- Opening for work pieces with diameters from 5 to 16 mm
- Opening for stamp sizes up to 30 x 15 mm
- 4 small brackets: 22 x 13 x 4 mm
- Max. work piece size: approx. 80 x 80 x 1-20 mm



Article no.	Article	Quantity	Weight	Code	
FT 02150	Watch-maker wire tool set	1 piece	0.87 kg	W	

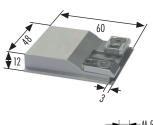
Delivered in case with screws and keys

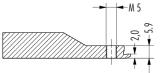
Examples of use

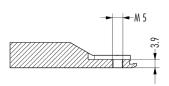




The Mini universal plate, to clamp thin plates in the RulerSet





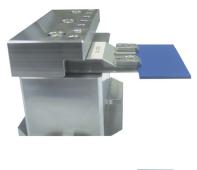


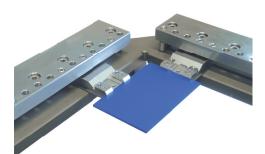
Mini universal clamping plate

The Mini Universal clamping plate, to fix thin plates in the RulerSet. The z-lip supports are just +2 mm above the O-level to avoid any collision with the flushing nozzle. The z-lips on both sides of the clamping plate give a high flexible application range. The clamping plate can be mounted as a single-, or over the corner as a multifunctional clamping devise. The Mini clamping plate is delivered with two Mini brackets.

Article no.	Article	Quantity	Weight	Code	
FT 01951	Mini Universal clamping plate Z+2// 60 x 54 x 12 mm	1 piece	0.26 kg	W	
FT 01952	Mini Bracket 22 x 13 x 3.8 mm	1 piece	0.05 kg	W	

Combination examples:

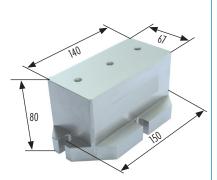








Clamping block, the bridge from Presetting to EDM drilling to EDM- and wire EDMing.



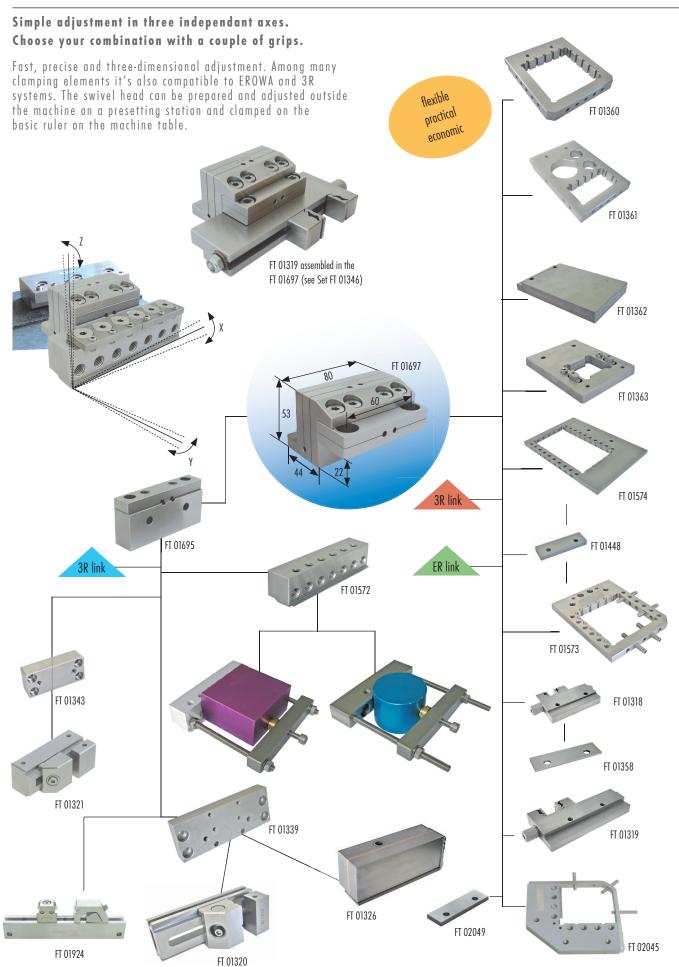
Clamping block

The Clamping block can be used as a basement on the EDM, EDM-drilling and Presetting machines. On the top surface the FT 01347 Basic Ruler 140 mm can be fitted. The clamping block is a high accurate clamping surface for workpieces and fixtures for RulerSet equipments.

Article no.	Article	Quantity	Weight	Code	
FT 01945	Clamping block h80	1 piece	6.78 kg	В	
FT 01347	Basic ruler 140 mm	1 piece	1.75 ka	w	



3D swivel head multifunctional



WEDM basic sets



3D ViseSet 100

Fast, precise and three-dimensional adjustment.

A universal and multifunctional set. Quick assembling with the basic ruler 140 mm. Compatible to WEDM-machines with Z-reference height 0.

The set contains:

1 x FT 01697 3D swivel head IF 22 1 x FT 01319 vise 100F22

1 x FT 01347 basic ruler 140 mm diverse screws and keys

→ delivered in a synthetic case

Article no.	Article	Quantity	Weight	Code	
FT 01346	3D ViseSet 100	1 set	5.04 kg	W	



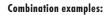
3D ViseSet 220B28

Fast, precise and three-dimensional adjustment.

Flexible machining of cubic pieces of miscellaneous sizes in Z-zero position. Accurate, strong ond centrically clamping, simplifies the adjustment.

Maximal clamping size: 130 mm, Maximal workpiece size: 130 x 100 x 100 mm, Maximal weight: 10 kg

Article no.	Article	Quantity	Weight	Code	
FT 02046	3D ViseSet 220B28	1 set		W	









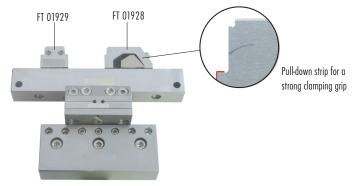
3D ViseSet 220B28 incl. basic ruler 140 mm

Fast, precise and three-dimensional adjustment.

Flexible machining of cubic pieces of miscellaneous sizes in Z-zero position. Accurate, strong ond centrically clamping, simplifies the adjustment.

Maximal clamping size: 130 mm, Maximal workpiece size: 130 x 100 x 100 mm, Maximal weight: 10 kg

Article no.	Article	Quantity	Weight	Code	
FT 02047	3D ViseSet 220B28 incl. basic ruler 140 mm	1 set	5.66 kg	W	



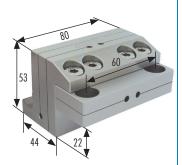
Details swivel



3D swivel head with front spanner 140

The 3D swivel head with front spanner 140 is delivered completely with screws, brackets and allen keys. The prism holder (FT 01593) and the yoke 140 mm (FT 01594) can be fixed frontal into the FT 01693. The yoke can be used directly on the beams and on the front spanner to clamp square pieces as well.

Article no.	Article	Quantity	Weight	Code	
FT 01693	3D swivel head with front spanner 140	1 piece	2.78 kg	W	
Options:					
FT 01593	Prism holder 110 mm complete	1 piece	1.50 kg	W	
FT 01594	Prism holder 110 mm complete	1 piece	0.65 kg	W	



3D swivel head IF 22

The 3D swivel head IF 22 can be used in combination with many clamping elements. Furthermore, this article is compatible with some EROWA PalletSet W elements.

Article no.	Article	Quantity	Weight	Code	
FT 01697	3D swivel head IF 22	1 piece	1.43 kg	W	
Options:					
FT 01318	Vise 55F18	1 piece	1.07 kg	W	
FT 01319	Vise 100F22	1 piece	1.43 kg	W	
FT 01358	Spacer plate 100 x 29 x H 4 mm	1 piece	0.11 kg	W	
FT 01360	Frame pallet 100 x 22 mm	1 piece	3.28 kg	W	
FT 01361	Universal pallet 22 mm	1 piece	3.80 kg	W	
FT 01362	Blank pallet 22 mm	1 piece	2.75 kg	W	
FT 01363	RefTool IF pallet 14 mm	1 piece	1.34 kg	W	
FT 01448	Spacer plate 100 x 29 x H 12 mm	1 piece	0.31 kg	W	
FT 01573	Frame pallet 75 x 75 x 10 mm without clamping beam	1 piece	0.85 kg	W	
FT 01574	Frame pallet 135 x 75 x 10 mm without clamping beam	1 piece	1.50 kg	W	



Swivel head IF 90°

The 3D swivel head IF 90° is used for the frontal collet of clamping elements and adapter plates.

Article no.	Article	Quantity	Weight	Code	
FT 01705	3D swivel head IF 90°	1 piece	1.48 kg	W	
Options:					
FT 01320	Vise 80VL50	1 piece	1.40 kg	W	
FT 01321	Vise 20VL24	1 piece	0.26 kg	W	
FT 01326	Magnetic table 140 x 50 x 44 mm	1 piece	2.60 kg	W	
FT 01339	Interface plate 146 x 56 x 16 mm	1 piece	1.30 kg	W	
FT 01343	Interface uniplate for vise 20VL24	1 piece	0.22 kg	W	



3D swivel head IF 15 / 3R

Compatible with many 3R clamping elements.

Article no.	Article	Quantity	Weight	Code	
FT 01706	3D swivel head IF 15 / 3R	1 piece	1.39 kg	W	

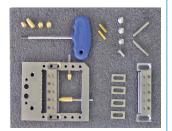


Adapter to swivel head

For every application the right adapter.

Article no.	Article	Quantity	Weight	Code	
FT 01694	IF 22 for 3D swivel head	1 piece	0.24 kg	W	
FT 01695	IF 90° for 3D swivel head	1 piece	0.34 kg	W	
FT 01696	IF 15 / 3R for 3D swivel head	1 piece	0.26 kg	W	

WEDM clamping elements



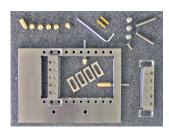
Frame pallet

The frame pallet $75 \times 75 \times 10$ mm has a height of 10 mm only and is suited for the collet of thin plates $<75 \times 75$ mm. The parts can be clamped with M6 screws sideways on plan-eroded pins. Parallel grinded plates with unmachined side faces can be clamped accurate on small support beams. The frame pallet can be inserted directly in the corner set 85, in the palletset W adapter, the swivel table with IF 22 or in the ER swivel. The frame pallet is delivered completely with screws and 2 small clamping beams.

Pallet dimension: 130 x 105 x 10 mm

Clamping beam height: lips = -2 mm / strip from height zero = 16 mm

Article no.	Article	Quantity	Weight	Code	
FT 01353	Frame pallet 75 x 75 x 10 mm with clamping beam	1 piece	1.20 kg	W	
FT 01573	Frame pallet 75 x 75 x 10 mm without clamping beam	1 piece	0.85 kg	W	



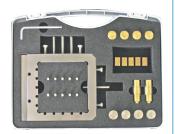
Frame pallet

The frame pallet $135 \times 75 \times 10$ mm has a height of 10 mm only and is suited for the collet of thin plates $< 135 \times 75$ mm. The parts can be clamped with M6 screws sideways on plan-eroded pins. Parallel grinded plates with unmachined side faces can be clamped on small support beams. The frame pallet can be clamped directly with the basic ruler or be inserted in the swivel table IF 22. The frame pallet is delivered completely with screws and 2 small clamping beams.

Pallet dimension: 195 x 137 x 10 mm

Clamping beam height: lips = -2 mm / strip from height zero = 16 mm

Article no.	Article	Quantity	Weight	Code	
FT 01444	Frame pallet 135 x 75 x 10 mm with clamping beam	1 piece	1.90 kg	W	
FT 01574	Frame pallet 135 x 75 x 10 mm without clamping beam	1 piece	1.50 kg	W	



Frame pallet

The frame pallet 100 x 22 mm is an economic, universal clamping frame with variable clamping possibilities. The clamping frame can be charged with parts very simple outside the machine on a flat surface. Afterwards the clamping frame, charged with parts, is available for the handling with a few hand grips. The base frame consists of corrosion-resistant, not hardened high-grade steel. The surface or the provided hardened, corrosion-resistant cylinder bolts provide optionally a stopper for the parts. The clamping beam is delivered completely with screws, keys, cylinder bolts and jacks.

Pallet dimension 170 x 150 x 22 mm

Article no.	Article	Quantity	Weight	Code	
FT 01360	Frame pallet 100 x 22 mm	1 piece	3.28 kg	W	



universal pallet

The universal pallet is a multifunctional clamping frame for round and square parts. The universal pallet can be charged with parts very simple outside the machine on a flat surface, like the frame pallet, and is available anytime for the application on the machine. The base frame consists of corrosion-resistant, not hardened high-grade steel. The surface or the provided hardened, corrosion-resistant cilynder bolts provide optionally a stopper for the parts. The universal pallet is delivered completely with screws, keys, cylinder bolts and jacks.

Pallet dimension: 200 x 140 x 22 mm

Article no.	Article	Quantity	Weight	Code	
FT 01361	Universal pallet 22 mm	1 piece	3.80 kg	W	

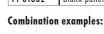


Blank pallet

The end user can cut his forms by himself analog the universal pallet or the frame pallet.

Pallet dimension: 160 x 100 x 22 mm

Article no.	Article	Quantity	Weight	Code	
FT 01362	Blank pallet 22 mm	1 piece	2.75 kg	W	





FT 01044 chuck 80 IF3R

FT 01362 blank pallet 22 mm



FT 01765 square 25 front part

FT 01362 blank pallet 22 mm

RefTool IF pallet

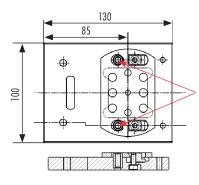


RefTool IF pallet

With the RefTool IF pallet, electrodes can be handled on the RefTool holders in reference position with the wire EDM machine. The RefTool IF pallet is delivered completely with screws and keys.

Pallet dimension: 130 x 100 x 14 mm

Article no.	Article	Quantity	Weight	Code	
FT 01363	RefTool IF pallet 14 mm	1 piece	1.34 kg	W	



Stop pin with reference hole

WEDM vises and magnetic tables



Vise 55F18

Handy, flat accurate vise (18 mm) with pull-down spring return effect for wire EDM plants. Can be inserted in thel ruler set, in the ER swivel, in the swivel table or in the palletset W. Made of corrosion-resistant, hardened high-grade steel. Clamping length: 55 mm, clamping height: 18 mm

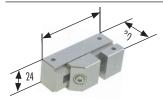
Article no.	Article	Quantity	Weight	Code	
FT 01318	Vise 55F18	1 piece	1.07 kg	W	



Vise 100F22

Handy, flat accurate vise (22 mm) with pull-down spring return effect for wire EDM plants. Can be inserted in the ruler set, in the ER swivel, in the swivel table or in the palletset W. Made of corrosion-resistant, hardened, grinded high-grade steel. Clamping length: 100 mm, clamping height: 22 mm

Article no.	Article	Quantity	Weight	Code	
FT 01319	Vise 100F22	1 piece	1.43 kg	W	



Vise 20VL24

Small accurate vise made of corrosion-resistant, hardened, grinded high-grade steel for EDM and wire EDM machines.

Hole pattern from behind: 4 x M5 / 16 x 52 mm

Clamping length: 20 mm, clamping height: 24 mm

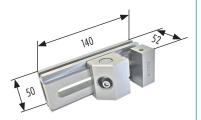
Article no.	Article	Quantity	Weight	Code	
FT 01321	Vise 20VL24	1 piece	0.26 kg	W	



Interface uniplate for vise 20VL24

On the front side, the vise 20VL24, hole pattern $(4 \times 5.8 / 16 \times 52 \text{ mm})$, on the back side, the ER plate (FT 01435) or the uniplate (FT 01079 / FT 01080) can be assembled, hole pattern $(2 \times M6 / 40 \text{ mm})$.

Article no.	Article	Quantity	Weight	Code	
FT 01343	Interface uniplate for vise 20VL24	1 piece	0.22 kg	W	



Vise 80VL50

Accurate vise made of corrosion-resistant, hardened, grinded high-grade steel for EDM and wire EDM machines.

Hole pattern from behind: 4 x M8 / 25 x 127 mm

Clamping length: 80 mm, clamping height: 50 mm

Article no.	Article	Quantity	Weight	Code	
FT 01320	Vise 80VL50	1 piece	1.40 kg	W	

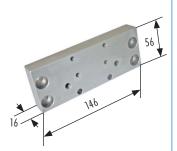
WEDM vises and magnetic tables



Magnetic table 140 x 50 x 44 mm

Small, corrosion-resistant magnetic table for the insertion on EDM, wire EDM and grinding machines. Hole pattern from behind: 4 x M8 / 25 x 127 mm

Article no.	Article	Quantity	Weight	Code	
FT 01326	Magnetic table 140 x 50 x 44 mm	1 piece	2.60 kg	W	



Interface plate

Multiple applicable interface plate.

Back side mountable

WEDM angle QC50 (FT 01337) Swivel interface 90° (FT 01359) ER plate (FT 01435) Uniplate (FT 01079 / FT 01080)

Front side mountable

Vse 80VL50 (FT 01320)

Magnetic table 140 x 50 x 44 mm (FT 01326)

Fixtures with hole pattern 4 x M8 / 25 x 127 mm SH 28 mm

Article no. Article Quantity Weight Code FT 01339 Interface plate 146 x 56 x 16 mm 1 piece 1.30 kg W





IF angle QC50

FT 01326 magnetic table 140 x 50 x 44 mm

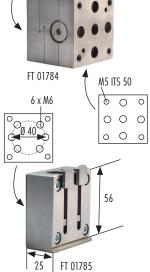
FT 01339 interface plate 146 x 56 x 16 mm



IF angle QC50

FT 01339 interface plate 146 x 56 x 16 mm





Swivel block 56 and WEDM vise V 0-75 mm

Made of corrosion-resistant, hardened stainless steel. Vise delivered with clamping jaws for the stress area of 0-75 mm. Hole pattern appropriate to electrode holders with hole distance for M6 distance 40 mm.

Article no.	Article	Quantity	Weight	Code	
FT 01784	Swivel block 56	1 piece	0.74 kg	W	
FT 01785	WEDM vise V 0-75 mm	1 piece	0.63 kg	W	
Appropriate	for the assembling on:				
FT 01337	WEDM IF angle QC50	1 piece	0.61 kg	W	
FT 01435	ER-plate EWIS	Set of 10 pieces	4.50 kg	Α	
FT 01727	PIN pallet aluminium Ø 80 mm	1 piece	0.34 kg	P	

Combination examples:



FT 01337 WEDM FT 01785 WEDM IF angle QC50 vise V 0-75 mm



FT 01337 WEDM FT 01784 IF angle QC50

FT 01785 WEDM swivel block vise V 0-75 mm



FT 01060

FT 01785 WEDM FT 01435 Chucking spigot ER-plate EWIS vise V 0-75 mm

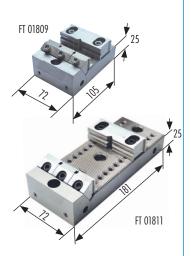




FT 01784 **≋** swivel block FT 01785 WEDM vise V 0-75 mm

Vises in high performance rust resistant steel, for various applications

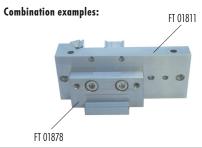
MultiClamp, with link to the RulerSet



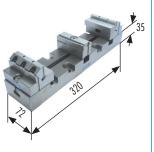
MultiClamp 105 and 181

The MultiClamp is a pull-down clamp with adjustable, hardened pull-down and stop jaws. It is corrosion-resistant and hardened. The stop jaw can be set every 2 mm in the tooth grid. The support surface is put up on 25 ± 0.01 mm. The MultiClamp fits for the insert as a multiple clamp on the T-slot pallet, ITS/UPC pallet and square block. The maximum clamping range on the MultiClamp 105 is 48 mm, on the MultiClamp 181//124 mm. The clamp travel of the clamping jaw is 3 mm.

Article no.	Article	Quantity	Weight	Code	
FT 01809	PIN MultiClamp 105 x 72 mm B40, corrosion-resistant	1 piece	1.90 kg	P	
FT 01811	PIN MultiClamp 181 x 72 mm B40, corrosion-resistant	1 piece	2.94 kg	P	
FT 01878	Basic Ruler IF100/50	1 piece	0.84 kg	W	







WEDM ClampingBeam B72

The MC railer set 320 B72 is a perfect, upgradable basic initial equipment for general multiple-clamping-jobs in the daily business. The hole grid 50 mm matches for the direct assembling on UPC pallets. Max. clamping power 10 - 15 KN

Article no.	Article	Quantity	Weight	Code	
FT 01857	MC Railer Set 320 B72	1 set	8.87 kg	Р	
FT 01878	Basic Ruler IF100/50	1 piece	0.84 kg	W	



Combination examples:



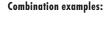




WEDM ClampingBeam B28

The WEDM railer is prepared with a disc pull-down-system and a quickly adjustable clamping-slide. With the help of the basic rulers IF FT 01873 or with the two fixing holes \emptyset 9 D200, the railer can be clamped horizontal in the EDM wire cutting machine. Maximal holding capacity B220 B28 = 130 mm, B320 B28 = 2 x 0-88 mm or 1 x 0-230 mm

Article no.	Article	Quantity	Weight	Code	
FT 01924	WEDM clamping beam 220B28 with sliding jaws B28WEDM	1 piece	1.80 kg	P	
FT 01925	WEDM clamping beam 320B28 with sliding jaws B28WEDM	1 piece	2.70 kg	P	
FT 01873	Basic Ruler IF100/30	1 piece	0.55 kg	W	



FT 01928





WEDM pendulum holder

With the pendulum holder, work pieces can be aligned independent with 2 screws (per level) in the X- and Y-level. The pendulum holder can be clamped directly on the zero level of the machine table or underneath the basic ruler. To adapt the several clamping elements, two different adapter types are available:

- a) the adapter for rather flat collets, the interface 22 (IF 22) b) the adapter for rather high collets, the interface 90 $^\circ$ (IF 90 $^\circ$)



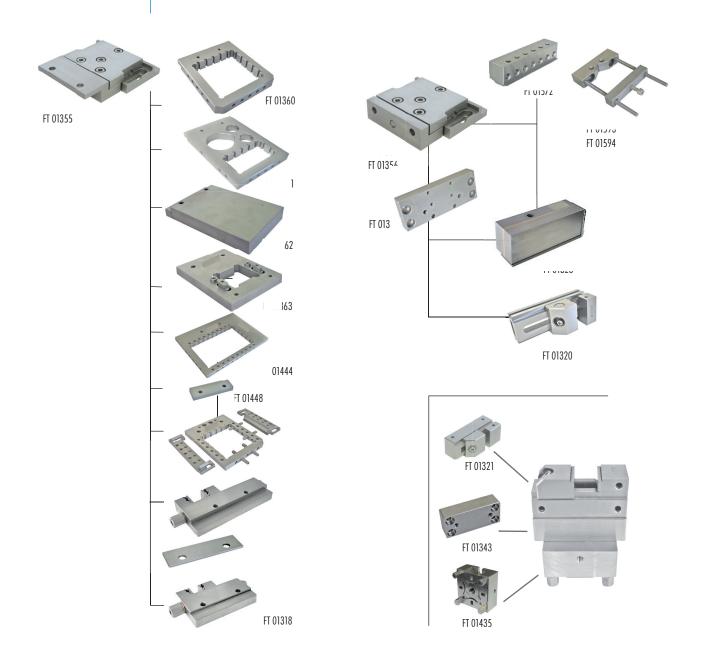
Swivel table

Pendulum-table (adjustment table) with receiver. The clamping lip lies in basis zero level. When there is risk of collision, the pendulum-table can be hoisted by 3 mm with the spacer plate (FT 01070).

Hole distance: X = 100 mm

The set contains: swivel table with front spanner / spacer plate 3 mm (FT 01070) / miscellaneous screws, keys and brackets \rightarrow The swivel table is delivered in the same plastic case like e.g. article no. FT 01354

Article no.	Article	Quantity	Weight	Code	
FT 01571	Swivel table with front spanner 140 x 30 x 35 mm	1 piece	4.40 kg	W	





Swivel table complete

Complete adjustment table with all cutting sites for high or flat clamping elements.

Hole distance: X = 100 mm

The set contains: swivel table with IF 22 (FT 01357) and IF 90° (FT 01359) / spacer plate 3 mm (FT 01070) / spacer plate 4 mm (FT 01358) / spacer plate 12 mm (FT 01448) / interface plate 146 x 56 x 12 mm (FT 01339) / miscellaneous screws and keys

Article no.	Article	Quantity	Weight	Code	
FT 01354	Swivel table complete	1 piece	5.28 kg	W	



Swivel table with IF 22

Basic equipment adjustment table to adapt predominantly flat clamping elements.

Installation size: 175 x 120 x 30 mm / hole distance: X = 100 mm

The set contains: swivel table with IF 22 / spacer plate 3 mm (FT 01070) / spacer plate 4 mm (FT 01358) / spacer plate 12 mm (FT 01448) / miscellaneous screws and keys

Article no.	Article	Quantity	Weight	Code	
FT 01355	Swivel table with IF 22	1 piece	3.70 kg	W	



Swivel interface 90°

For the frontal collet of miscellaneous clamping elements or work pieces. As option to the swivel table IF 22 (FT 01355).

Article no.	Article	Quantity	Weight	Code	
FT 01359	Swivel interface 90°	1 piece	0.65 kg	W	

ightarrow Delivered with cylinder bolt and miscellaneous screws



Swivel table with IF 90°

Basic equipment adjustment table to adapt predominantly high clamping elements and for the frontal collet of miscellaneous clamping elements or work pieces.

Installation size: 145 x 120 x 30 mm / hole distance: X = 100 mm

The set contains: swivel table with IF 90° / spacer plate 3 mm (FT 01070) / miscellaneous screws and keys

Article no.	Article	Quantity	Weight	Code	
FT 01356	Swivel table with IF 90°	1 piece	3.10 kg	W	



Front spanner

For the direct collet of miscellaneous work pieces. As option to the swivel table IF 90° (FT 01356), to the 3D swivel with front spanner (FT 01693) and to the WEDM square block-index-table 80 (FT 01791).

Article no.	Article	Quantity	Weight	Code	
FT 01572	Front spanner 140 x 30 x 35 mm complete with brackets	1 piece	1.46 kg	W	

ightarrow Delivered with miscellaneous screws, keys, insert plates, distance pieces and brackets



Swivel interface 22

For the collet of miscellaneous flat clamping elements. As option to the swivel table IF 90° (FT 01356).

Article no.	Article	Quantity	Weight	Code	
FT 01357	Swivel interface 22	1 piece	0.85 kg	W	

 \rightarrow Delivered with cylinder bolt and miscellaneous screws



Hole pattern from the bottom

V-block corrosion-resistant

The V-Block is qualified for the fast clamping of arbores, punches and pushers up to Ø 32 mm. It can be assembled frontally or from the back on diverse holders. The best compatibility is with the uniplate EWIS (FT 01080), the ER-plate EWIS (FT 01435), the basic plate IF3R (FT 01135) and the universal index adapter plate 80 with graduation (FT 01792). For the application on EDM, WEDM and grinding machines.

Article no.	Article	Quantity	Weight	Code	
FT 01679	V-block corrosion-resistant	1 piece	1.64 kg	W	

Details Interfaces



Swivel interface 3R 22

This swivel interface 3R 22 is useful to integrate the practical and economic frame pallets and vises into the 3R system.

Article no.	Article	Quantity	Weight	Code				
FT 01782	Swivel interface 3R 22	1 piece	0.93 kg	В				
Options:	Options:							
FT 01318	Vise 55F18	1 piece	1.07 kg	W				
FT 01319	Vise 100F22	1 piece	1.43 kg	W				
FT 01358	Spacer plate 100 x 29 x H 4 mm	1 piece	0.11 kg	W				
FT 01360	Frame pallet 100 x 22 mm	1 piece	3.28 kg	W				
FT 01361	Universal pallet 22 mm	1 piece	3.80 kg	W				
FT 01362	Blank pallet 22 mm	1 piece	2.75 kg	W				
FT 01363	RefTool IF pallet 14 mm	1 piece	1.34 kg	W				
FT 01448	Spacer plate 100 x 29 x H 12 mm	1 piece	0.31 kg	W				
FT 01573	Frame pallet 75 x 75 x 10 mm without clamping beam	1 piece	0.85 kg	W				
FT 01574	Frame pallet 135 x 75 x 10 mm without clamping beam	1 piece	1.50 kg	W				



Swivel interface 3R 90°

This swivel interface 3R 90° is useful to integrate a great many of clamping pieces into the 3R system.

Article no.	Article	Quantity	Weight	Code	
FT 01783	Swivel interface 3R 90°	1 piece	0.96 kg	В	
Options:					
FT 01320	Vise 80VL50	1 piece	1.40 kg	W	
FT 01321	Vise 20VL24	1 piece	0.26 kg	W	
FT 01326	Magnetic table 140 x 50 x 44 mm	1 piece	2.60 kg	W	
FT 01339	Interface plate 146 x 56 x 12 mm	1 piece	1.30 kg	W	
FT 01343	Interface uniplate for vise 20VL24	1 piece	0.22 kg	W	



Interfaces EROWA

The practical and economic frame pallets and vises can be inserted in the EROWA palletset W as well. It must be pointed out, that pin and excentric in the palletset W holder have to be removed on this application.

Article no.	Article	Quantity	Weight	Code	
FT 01046	Basic WEDM fix holder palletset W	1 piece	3.10 kg	В	
FT 01047	Basic WEDM pendulum holder palletset W	1 piece	3.25 kg	В	
Options:					
FT 01318	Vise 55F18	1 piece	1.07 kg	W	
FT 01319	Vise 100F22	1 piece	1.43 kg	W	
FT 01358	Spacer plate 100 x 29 x H 4 mm	1 piece	0.11 kg	W	
FT 01360	Frame pallet 100 x 22 mm	1 piece	3.28 kg	W	
FT 01361	Universal pallet 22 mm	1 piece	3.80 kg	W	
FT 01362	Blank pallet 22 mm	1 piece	2.75 kg	W	
FT 01363	RefTool IF pallet 14 mm	1 piece	1.34 kg	W	
FT 01448	Spacer plate 100 x 29 x H 12 mm	1 piece	0.31 kg	W	
FT 01573	Frame pallet 75 x 75 x 10 mm without clamping beam	1 piece	0.85 kg	W	
FT 01574	Frame pallet 135 x 75 x 10 mm without clamping beam	1 piece	1.50 kg	W	



ICS adapter

With the ICS adapter, available ICS clamping elements can be received, respectively continued to be used with the basic rulers.

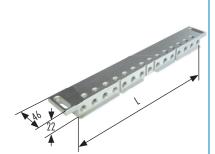
Article no.	Article	Quantity	Weight	Code	
FT 02033	ICS Adapter 22	1 piece	0.48 kg	W	
FT 02034	ICS Adapter 12	1 piece	0.32 kg	W	





Frame set link

The frame set link contains clamping elements, which can also be inserted in combination with the ER frame set.



Beams

The beams are accurate grinded and consist of hardened, corrosion-resistant, alloyed high-grade steel. The beams are furnished with clamping lips for the work piece clamping on one side and on the other side they can be clamped frontal. With the spacer plates 3 mm (FT 01070) the 3 mm high clamping lip can be lifted over the collision zone.

On the beams without Z-support you can assemble the Z-discs (FT 01911) and the Z-0 base plate (FT 01906).

A beam set consists of: 1 x beam / 2 x FT 01439 spacer plate 60 x 20 x 3 mm / 2 x FT 01441 countersunk screw corrosion-resistant, M8 x 25 / 2 x FT 01377 slide disc

Article no.	Article	Quantity	Weight	Code	
FT 01327	Beam L = 220 mm with clamping lips	1 piece	1.62 kg	W	
FT 01063	Beam L = 300 mm with clamping lips	1 piece	1.97 kg	W	
FT 01064	Beam L = 380 mm with clamping lips	1 piece	2.70 kg	W	
FT 01065	Beam L = 460 mm with clamping lips	1 piece	3.20 kg	W	
FT 01826	Beam L = 300/H22 mm without clamping lip	1 piece	2.19 kg	W	
FT 01827	Beam L = 380/H22 mm without clamping lip	1 piece	2.74 kg	W	
FT 01828	Beam L = 460/H36 mm without clamping lip	1 piece	5.73 kg	W	
FT 02121	Clamping beam enforcement 380 / 460 x 36 x 8 mm	1 piece	0.90 kg	W	





FT 02121

Beam IF

With the combination of beam interfaces, span lengths in 5 mm steps, from 70 mm to 170 mm can be bridged. The FT beams can be assembled sideways or lengthwise. At the insertion of the basic ruler, the required bridging width calculates as follows:

Hole distance assembling basic ruler (A) -20 mm -clamping beam length (L) = IF length total (C)

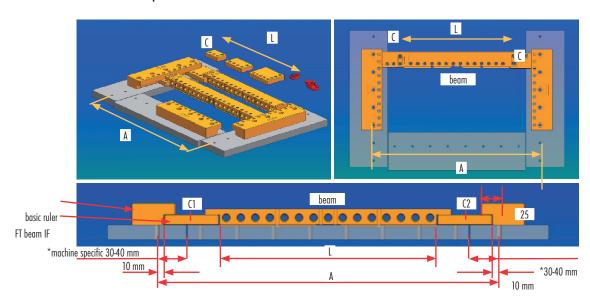
Example: RF12050 A 320-20-L 220 = C 80 this corresponds the IF length C 1 / 35 mm and C 2 / 45 mm AQ537L A 470-20-L 300 = C 150 this corresponds 2 x IF lengths C 1 / C 2 = 75 mm

10

AQ537L A 470 -20 -L 380 = C 70 this corresponds 2 x IF lengths C 1 / C 2 = 35 mm



Article no.	Article	Quantity	Weight	Code	
FT 01568	Beam IF 14/35/55 mm	1 piece	0.24 kg	W	
FT 01569	Beam IF 14/45/75 mm	1 piece	0.41 kg	W	
FT 01570	Beam IF 14/65/85 mm	1 piece	0.61 kg	W	
FT 01825	Beam IF 14/65/95 mm	1 piece	0.68 kg	W	



Frame set link



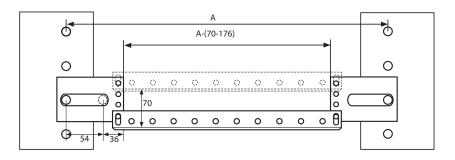
universal clamping beam supporting plate

The universal clamping beam supporting plates can be clamped directly on the machine table, without basic rulers.

Miscellaneous table sizes and beam lengths can be bridged by movement on the side. In the single application you can add a FT 01906 Z-0 base plate to the supporting plate and use it as a clamping plate.

Article no.	Article	Quantity	Weight	Code	
FT 02149	Universal clamping-beam supporting plate 108 x 80 x 14 mm	Set of 2 pieces	1.66 kg	W	

Example of assembling

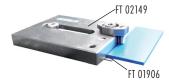


Examples of use

FT 02149



FT 02149 universal clamping beam supporting plate



FT 02149 universal clamping beam supporting plate in the single application

Beam accessories

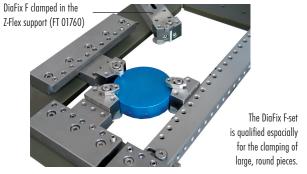


DiaFix

As a support or clamping support plate of large, round work pieces. Frontal assembled, the DiaFix can be inserted into the clamping beams, the front spanner (FT 01350) and the Z-Flex support (FT 01760).

The set contains: 3 x support plate with the appropriate clamping appliances

Article no.	Article	Quantity	Weight	Code	
FT 01879	DiaFix F	Set of 3 pieces	1.30 kg	В	



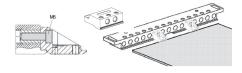
Beam accessories



Distance support mini

For the clamping of small work pieces, respective thin plates. Can be inserted into the clamping beam, into the front spanner (FT 01350) or into the front spanner 140 \times 30 \times 35 mm (FT 01572).

Article no.	Article	Quantity	Weight	Code	
FT 01066	Distance support mini	1 piece	0.18 kg	В	



F

Beamvise single

Variable vise with a flexible and a stop jaw for the assembling on the beams with support plates. Hardened, grinded, rust-resistant.

Article no.	Article	Quantity	Weight	Code	
FT 01839	Beamvise single 100 mm	1 piece	0.66 kg	W	

Combination example:

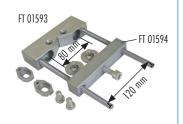




Beamvise twin

Variable vise with two flexible and a stop jaw with double-sided support plate. For the assembling on the beams. Hardened, grinded, rust-resistant.

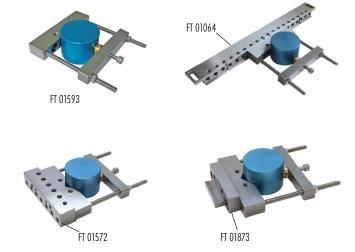
Article no.	Article	Quantity	Weight	Code	
FT 01840	Beamvise twin 2 x 100 mm	1 piece	0.87 kg	W	



Prism holder 110 mm

The prism holder can be assembled frontal in the cross-holes of the beams (FT 01327 / FT 01063 - 65) and in the front spanner (FT 01572). The yoke (FT 01594) can be used directly on the beams and on the front spanner to clamp square pieces as well.

Article no.	Article	Quantity	Weight	Code	
FT 01593	Prism holder 110 mm complete	1 piece	1.50 kg	W	
FT 01594	Yoke 140 mm without prism holder	1 piece	0.65 kg	W	



Z-Flex and Z-Flex support



Z-Flex

The Z-Flex could be clamped frontal in all clamping beams with cross holes Ø M10, distance 20 mm, or in the front spanners FT 01350 and FT 01572. With the Z-Flex you could adjust the supporting surface in state of the clamped work piece on 0.2 mm. Appropriate for the levelling of plates and work pieces. Delivered without brackets and allen key.

Article no.	Article	Quantity	Weight	Code	
FT 01600	Z-Flex	1 piece	0.36 kg	W	



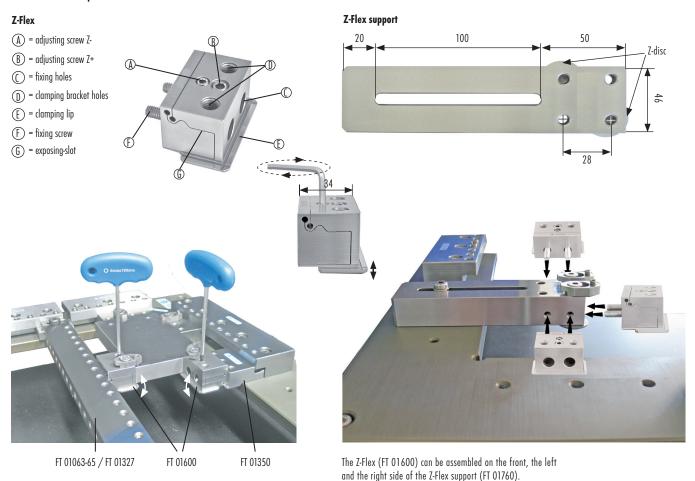
Z-Flex support

The Z-Flex support is ideal for the support of big plates. He can be clamped directly of the machine table. This plates can be levelled after the clamping in combination with the Z-Flex (FT. The Z-Flex can be assembled on the front, right or left side of the Z-Flex support.

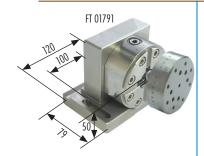
Dimensions: L = 170 / B = 46 / H = 27 mm

Article no.	Article	Quantity	Weight	Code	
FT 01760	Z-Flex support (without Z-Flex)	1 piece	1.60 kg	W	

Delivered incl. brackets, Z-disc and miscellaneous screw material.



Turn and index table



WEDM square block-index-table

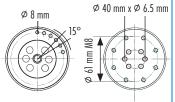
The center chuck with spring-steel centering, 90° raster-indexation or stageless indexation with graduation. Able for the direct application on the drilling machine, on the WEDM-machine table with hole pattern 50 mm or to clamp with the basic rulers (arbour height 50 mm). Delivered with a universal index adapter plate 80 with graduation (FT 01792) to adapt the ER chuck 80P (FT 01043), chuck 80 IF3R (FT 01044), collet chuck holder (FT 01580/FT 01581), electrodes or working pieces.

Dimension: 120 x 79 x 92 mm / Spindle height 50 mm

Article no.	Article	Quantity	Weight	Code	
FT 01791	WEDM square block-index-table 80, corrosion-resistant	1 piece	2.50 kg	W	







universal index adapter plate

Universal adapter plate 80 with nonius-display to adapt the ER chuck 80P (FT 01043), chuck 80 IF3R (FT 01044), collet chuck holder (FT 01580/FT 01581), electrodes or working pieces.

Hole pattern: 8 x M8 reference circle 61 for ER chuck 80P & chuck 80 IF3R

For 6 x M6 circle diameter 40 mm (to adapt collet chuck holder, front spanner FT 01572 or electrodes respective working pieces)

Article no.	Article	Quantity	Weight	Code	
FT 01792	Universal index adapter plate 80 with graduation, corrosion-resistant	1 piece	0.90 kg	W	
FT 01430	PIN index Ø 8/7 mm M5, corrosion-resistant	1 piece	0.01 kg	P	
FT 01745	PIN index Ø 8/7 mm M5, corrosion-resistant, hardened & ground	1 piece	0.01 kg	P	

→ Delivered with RefPIN HP Z (FT 01719) and PIN index (FT 01430)

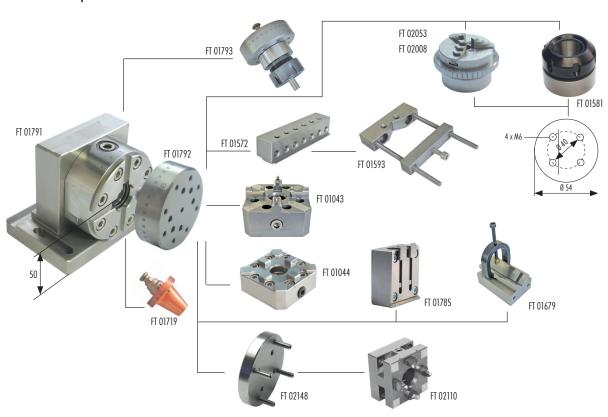


Collet chuck holder

Collet chuck holder with clamping nut for collet chucks ETS 32.

The collet chuck holder is corrosion-resistant and under careful care he could be also inserted in the water.

Article no.	Article	Quantity	Weight	Code	
FT 01793	Collet chuck holder ETS32 incl. index adapter plate 80	1 piece	1.40 kg	W	
FT 01581	Collet chuck holder ETS32 without adapter plate (corrosion-resist.)	1 piece	0.45 kg	Α	



EDM link



ER-Chuck 50

ITS chuck system size 50, manual, corrosion-resistant. Fixing with 4 x M8, hole pattern 44 mm, from back side or with 4 x M6 with stud bolts and screw nut. Use on EDM / WEDM machines and for milling, rotation and grinding jobs. Clamping force 4000 N.

Article no.	Article	Quantity	Weight	Code	
FT 02110	ER-Chuck 50	1 piece	0.72 kg	Α	



ER-Chuck 50 assembled on WEDM angle

ER-Chuck 50 (FT 02110) assembled on WEDM angle (FT 01337) for the fast clamping with the basic ruler.

Arbor height: 28 mm

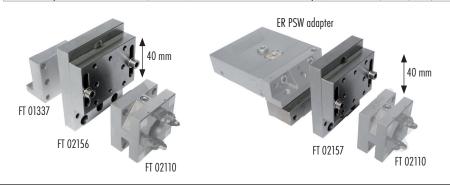
Article no.	Article	Quantity	Weight	Code	
FT 01333	ER-Chuck 50 with WEDM IF angle QC50	1 piece	1.30 kg	W	



Vario hz40

With the Vario hz40 you can set the Z height steplessly. The hardened and ground slide plate is guided in a slot with two pins. The height adjustment is 40 mm. The Vario hz40 can be quickly mounted on the FT 01337 IF angle QC50 or on the FT 01705 3D swivel head. The variant FT 02157 can be mounted on a EROWA PSW-adapter.

Article no.	Article	Quantity	Weight	Code	
FT 02156	Vario hz-40 for assembling on FT 01337 and FT 01705	1 piece	1.30 kg	W	
FT 02157	Vario hz-40 for assemblina on ER-adapter PSW	1 piece	0.72 ka	W	





Adapter plate ERC-50 Ø 80 x 12 - M6-Tk40 (stainless steel)

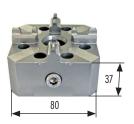
The adapter plate ERC-50 is made of stainless steel, grinded parallel, unhardened.

Dimension: Ø80 x 12 mm

Hole pattern: 4 x M6 44 for ERC-50, 4x washer M6

Delivered with: 4 x headless pin M6 x 30, 4 x washer M6, 4 x hexagon nut M6

Article no.	Article	Quantity	Weight	Code	
FT 02148	Adapter plate ERC-50 Ø 80 x 12	1 piece	0.45 kg	Α	



ER chuck 80P

New, manual chuck. Corrosion-resistant. For the system sizes ER 50 and 100. Grinded flanks for the power centration. Strong, floating gripping mechanism. Clamping force by hand with allen key: 5'000 - 8'000 N

Article no.	Article	Quantity	Weight	Code	
FT 01043	ER chuck 80P	1 piece	1.60 kg	Α	

ightarrow Delivered with miscellaneous screw material and allen key



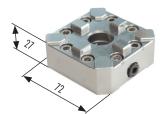
ER chuck 80P assembled on WEDM angle

ER chuck 80P (FT 01043) assembled on WEDM angle (FT 01338). For the fast clamping with the stop beads (basic ruler).

Arbor height: 40 mm

Article no.	Article	Quantity	Weight	Code	
FT 01334	ER chuck 80P with WEDM IF angle 80	1 piece	2.80 kg	W	

EDM link



Chuck 80 IF3R

Manual made by for 3R collet. Stainless. Strong, floating gripping mechanism.

Clamping force by hand with allen key: 5'000 - 8'000 N

Article no.	Article	Quantity	Weight	Code	
FT 01044	Chuck 80 IF3R	1 piece	0.93 kg	A	

ightarrow Delivered with miscellaneous screw material and allen key



Chuck 80 IF3R assembled on WEDM angle

Chuck 80 IF3R (FT 01044) assembled on WEDM angle (FT 01338). For the fast clamping on the stop beads (basic ruler).

Arbor height: 40 mm

Article no.	Article	Quantity	Weight	Code	
FT 01335	Chuck 80 IF3R with WEDM IF angle 80	1 piece	2.10 kg	W	

ightarrow Delivered with miscellaneous screw material and allen key

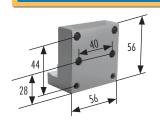


Table set on 3R basis

Those table sets are for the upgrade of oder machines with 3R dove tails.

Article no.	Article	Quantity	Weight	Code	
FT 01907	WEDM table set on 3R base 350 x 105 x 30 mm (RFI200)	1 piece	5.85 kg	W	
FT 01908	WEDM table set on 3R base 250 x 105 x 30 mm (RFI100)	1 piece		W	

Adapter

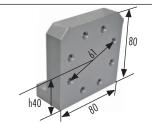


WEDM angle QC50

For the collet of the quickchuck 50, the interface plate $146 \times 56 \times 12$ mm or other appliances. The WEDM angle can be clamped directly in the basic ruler. Delivered with miscellaneous screw material.

Arbor height from basis zero level (mid angle): 28 mm

Article no.	Article	Quantity	Weight	Code	
FT 01337	WEDM IF angle QC50	1 piece	0.61 kg	W	



WEDM angle IF 80

For the clamping of the ER/chuck 80 IF3R and other appliances. The WEDM angle can be clamped directly in the basic

Arbor height from basis zero level (mid angle): 40 mm

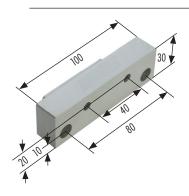
Article no.	Article	Quantity	Weight	Code	
FT 01338	WEDM IF angle ITS/chuck 80 IF3R	1 piece	1.08 kg	W	



Adapter plates palletset W

Adapter plates for the clamping of the magnetic table (FT 01326) and the vise 80VL50 (FT 01320) in the palletSet W-holder. For this application you need both plates.

Article no.	Article	Quantity	Weight	Code	
FT 01842	Adapter plate palletset W	1 piece	0.98 kg	W	
FT 01843	IF plate PW90°	1 piece	0.70 kg	W	



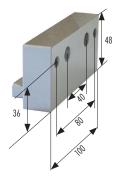
Basic ruler IF100/30

The basic ruler IF100/30 adapter is suited for the collet of the several beams, the front spanner 140 (FT 01572) or other installations directly into the ruler set (FT 01344).

Article no.	Article	Quantity	Weight	Code	
FT 01873	Basic Ruler IF100/30	1 piece	0.55 kg	W	

Combination examples p. 2,16

Adapter



Basic ruler IF100/50

The basic ruler IF100/50 is suited for the clamping of the PIN MultiClamps 105 (FT 01809 + 01810), PIN MultiClamp 181 (FT 01811), MC railer 320 (FT 01882) or other installations directly into the ruler set (FT 01344).

Article no.	Article	Quantity	Weight	Code	
FT 01878	Basic Ruler IF100/50	1 piece	0.84 kg	W	

Combination examples:



FT 01878 with PIN MultiClamp 181 (FT 01811)



FT 01878 with PIN MultiClamp 105 (FT 01809)



FT 01878 with MC railer 320 mm (FT 01882) and 2 x PIN MultiClamp 105 (FT 01809)

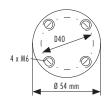
Rustless 3 Jaw scroll chuck

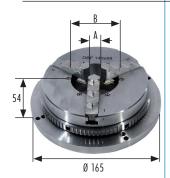


Rustless, precision three-jawed chuck

Suitable for the application on EDM wire cutting machines under water. Hardened clamping jaws for the clamping of outside diameter Ø 1 - Ø 60 mm and inside diameter of Ø 12 - Ø 66 mm. Hole pattern 4 x M6, reference circle 40 mm. Clamping accuracy ± 0.01 mm, maximum work piece weight: 2 kg

Article no.	Article	Quantity	Weight	Code	
FT 02008	3 Jaw scroll chuck DBF63 rustless 0-56 mm Ø 70 mm L = 32 mm	1 piece	0.76 kg	Р	
FT 02053	3 Jaw scroll chuck DBF63 rustless with exchangeable soft jaws	1 piece	0.72 kg	Р	





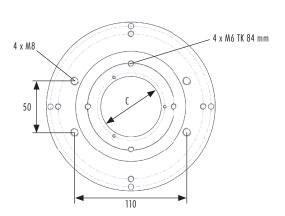
Rustless precision 3 jaw scroll chuck DBF 140/58

Suitable on measuring stations and fine precision works in sinking-EDM and wire-EDM machines. Hardened clamping jaws to clamp external diameters of \emptyset 1 - \emptyset 175 mm and inner diameters of \emptyset 24 - \emptyset 180 mm.

- A = Clamping of shafts / diameters \emptyset 1 175 mm
- B = Clamping of inner diameters Ø 24 Ø 180 mm.
- C = Passage-diameter \emptyset 58 mm

Article no.	Article	Quantity	Weight	Code	
FT 02054	3 Jaw scroll chuck DBF140/58 stainless	1 piece	5.00 kg	P	

Delivered incl. assembled PIN index, but without centering bolt.



Pendulum head for EROWA UnoSet interface



ER swivel 55F18

ER pendulum head with vise 55F18. Adjustable in all three axes. Appropriate for the use on WEDM machines in the quickchuck 50 (arbor height 28 mm) or in the ER chuck 80P (arbor height 40 mm).

Article no.	Article	Quantity	Weight	Code	
FT 01365	ER swivel with FT vise 55F18	1 piece	2.30 kg	W	

→ Delivered with chucking spigot (FT 01060), miscellaneous screw material and allen keys



ER swivel 20VL24

ER pendulum head with vise 20VL24. Adjustable in all three axes. Appropriate for the use on WEDM machines in the quickchuck 50 (arbor height 28 mm) or in the ER chuck 80P (arbor height 40 mm).

Article no.	Article	Quantity	Weight	Code	
FT 01364	ER swivel with FT vise 20VL24	1 piece	2.00 kg	W	

→ Delivered with chucking spigot (FT 01060), miscellaneous screw material and allen keys



ER swivel with frame pallet

ER pendulum head with frame pallet 75 mm. Adjustable in all three axes. Appropriate for the use on WEDM machines in the quickchuck 50 (arbor height 28 mm) or in the ER chuck 80P (arbor height 40 mm).

Article no.	Article	Quantity	Weight	Code	
FT 01445	ER swivel with frame pallet 75 x 75 x 10 mm	1 piece	2.00 kg	W	

→ Delivered with chucking spigot (FT 01060), miscellaneous screw material and brass jacks



ER swivel interfaces

The ER swivel interfaces are used to bring the appropriate clamping elements to the zero-height on the machine table. Therewith, the backside of the ER pendulum head can be combined with several clamping elements.

Article no.	Article	Quantity	Weight	Code	
FT 01432	ER swivel IF for vise 55F18	1 piece	0.26 kg	W	
FT 01431	ER swivel IF for vise 20VL24	1 piece	0.38 kg	W	
FT 01446	ER swivel IF 55 x 18 x 12 mm for frame pallet 75 x 75 x 10 mm	1 piece	0.12 kg	W	



ER adapter

This adapter plate is overwinded parallel in the system and provides an insertion of electrodes, work pieces and appliances. Corrosion-resistant.

Hole distance with 2 x M6 screws: 40 mm

Article no.	Article	Quantity	Weight	Code	
FT 01435	ER-plate EWIS	Set of 10 pieces	4.50 kg	A	



Chucking spigot

Corrosion-resistant chucking spigots for the use in ER chucks on wire EDM machines.

Article no.	Article	Quantity	Weight	Code	
FT 01060	ER chucking spigot F/A WEDM	Set of 10 pieces	0.80 kg	В	

PreSet WT



PreSet WT

Precision grinded granit table $500 \times 315 \times 90/60$ mm, Quality 0, with grinded stopper h25 mm and 6 inlaid thread socket M8, Distance 50 mm.

To control, align and preset of work pieces, installed in miscellaneousl clamping elements.

1 x FT 02119 granite table 1 x FT 01347 basic ruler 140mm

1 x FT 01900 tripod FISSO STRATO M28

1 x FT 01901 mesuring clock 0.002

1 x FT 01403 FTool allen key with hand grip 4 mm

miscellaneous screws and keys

Article no.	Article	Quantity	Weight	Code	
FT 02122	PreSet WT 500 x 315 90/60	1 piece	47.00 kg	В	

Accessories and spare parts



Beam spacer plates

The spacer plate 60/3 mm can be used for the lifting of 3 mm of the clamping beams, the front spanners or the side spanners. The spacer plate 28/2 mm is intended for the lifting of the calmping beam 75 mm (FT 01414) of the frame pallet 10 mm. To protect against collision of the clamping lips and flushing nozzles on machines with closed, no flexible flushing nozzles.

Art	ticle no.	Article	Quantity	Weight	Code	
FT	01439	Spacer plate 60 x 20 x 3 mm for beam	Set of 2 pieces	0.04 kg	W	
FT	01455	Spacer plate 28 x 14 x 2 mm for beam 75 mm	Set of 2 pieces	0.01 kg	W	



Spacer plates

For the assembling of miscellaneous clamping elements in the swivel table IF 22 (FT 01355) or in the palletset W adapter to basis zero.Basis height: 22 mm - height clamping element = height spacer plate

The spacer plate H 3 mm (FT 01070) can be used as well for the lifting of the clamping elements with clamping lips.

To protect against collision of the clamping lips and flushing nozzles on machines with closed, no flexible flushing nozzles.

Article no.	Article	Quantity	Weight	Code	
FT 01070	Spacer plate 100 x 29 x H 3 mm	1 piece	0.09 kg	W	
FT 01358	Spacer plate 100 x 29 x H 4 mm	1 piece	0.11 kg	W	
FT 01448	Spacer plate 100 x 29 x H 12 mm	1 piece	0.31 kg	W	
FT 01457	Spacer plate 100 x 29 x H 3 mm	1 piece	0.09 kg	W	
FT 01947	Spacer plate 60 x 29 x H3 mm	1 piece	0.04 kg	W	
FT 02049	Spacer plate 100 x 29 x H 8 mm	1 piece	0.17 kg	W	



Clamping beam for frame pallet

Small, accurate, corrosion-resistant clamping beams for the frame pallet 10 mm. Provided with 2 mm lips on both sides. On one side, equipped with a compact strip for work pieces of < 10 mm height. On the other side with exemption for the clamping of high work pieces. Delivered completely with screws.

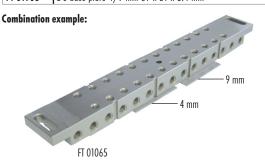
Article no.	Article	Quantity	Weight	Code	
FT 01414	Clamping beam 75 mm two-sided for frame pallet 10 mm	1 piece	0.23 ka	w	



Z-plate

The Z-O base plate, made of corrosion-resistant, grinded steel, can be assembled on beams without clamping lips. Depending on the direction, respective the clamping function, the lip overlap 4 mm or 9 mm from the support.

Article no.	Article	Quantity	Weight	Code	
FT 01906	7-0 base plate 4/9 mm 69 x 31 x 3.4 mm	1 piece	0.10 ka	W	





Z-plate

The Z-O base plate, made of corrosion-resistant, grinded steel, can be assembled on beams without clamping lips or other clamping devices.

Article no.	Article	Quantity	Weight	Code	
FT 01911	Z-disc 3 mm incl. countersunk screw M8 x 14 mm	1 Set	0.05 kg	В	



Pressure screw

Pressure screw, corrosion-resistant with pressure surface and applicable pressure angle for the basic ruler.

Article no.	Article	Quantity	Weight	Code	
FT 01373	Pressure screw M8 x 18 mm	1 piece	0.01 kg	W	



Stoppe

Stopper hardened, corrosion-resistant, complete with special screw M6 x 16 mm. To fix on the basic ruler's.

Article no.	Article	Quantity	Weight	Code	
FT 01376	Stopper hardened with screw M6 corrosion-resistant	1 piece	0.01 kg	W	

Accessories and spare parts





Brackets

Brackets corrosion-resistant for the miscellaneous clamping elements.

Article no.	Article	Quantity	Weight	Code	
FT 01381	Bracket 70E103 corrosion-resistant	1 piece	0.07 kg	W	
FT 01382	Bracket ER34 corrosion-resistant	1 piece	0.02 kg	W	
FT 01383	Bracket ER45 corrosion-resistant	1 piece	0.08 kg	В	
FT 01447	Multi bracket 60 x 26 x H6 mm corrosion-resistant	1 piece	0.06 kg	W	
FT 01952	Mini Bracket 22 x 13 x 3.8 mm	1 piece	0.05 kg	W	

FT 01456 FT 01323 FT 01322





jacks

The jacks can be used as bracket supports or as screw extensions on the universal pallet and the miscellaneous frame pallets. The soft material prevents the marking by the brackets and the screws on the work piece.

Article no.	Article	Quantity	Weight	Code	
FT 01322	Jack Ø 20 x 10 mm for M8	1 piece	0.02 kg	W	
FT 01323	Jack extension Ø 20 x 20 mm	1 piece	0.05 kg	W	
FT 01456	Jackset adjustable Ø 20 x 20-26 mm	1 piece	0.05 kg	W	
FT 01492	Jack brass Ø 9.5 x 10 mm for M6	1 piece	0.01 kg	W	
FT 01493	Jack extension brass Ø 9.5 x 20 mm	1 piece	0.01 kg	W	



Allen keys

Allen keys with hand grip.

Article no.	Article	Quantity	Weight	Code	
FT 01403	Allen key with hand grip 4 mm L = 100 mm	1 piece	0.01 kg	В	
FT 01404	Allen key with hand grip 5 mm L = 150 mm	1 piece	0.02 kg	В	
FT 01405	Allen key with hand grip 6 mm L = 150 mm	1 piece	0.03 kg	В	

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