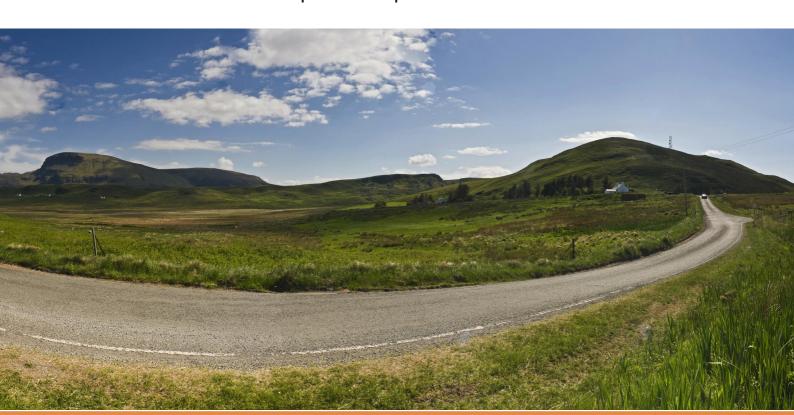




Universal but Special High-Performance Joints

Fifty years Company tuned to guarantee the best JOINTS | SHAFT | E-MOTION TECHNOLOGY









ROTAR is a worldwide known company focused on Special Joints and Shafts with a stunning reliability and a consistant quality.

With more than 50 years of experince and thousands of satisfied customers, ROTAR is the leading company in motion technology.

ROTAR today adds to its Legacy portfolio, the new High Tech Series which sets the standards to the top making a revolution in the market.



COMPANY PROFILE



About us

Rotar* was founded in 1960 and since that date, its target was the product quality and the reliability.

Main idea was a totally different way to apply the wellknown Mr. Cardano idea. This plus determined the ROTAR's success.

Today ROTAR is a worldwide known leader in the Universal & Special Joints and Shafts which exports to 85 countries and produces more than 200.000 joints and shafts per year.

Rotar 80% of the turnover is made overseas.

With an everyday work on new technologies and solutions, ROTAR is proud to renew an important part of the mechanic historical solution as the joint is, always with absolutely revolutionary products.

The third Aramini generation, which manages today the company, boosts the renovation of all internal processes such as the production flow to the Kanban Method, the sales approach and the distribution network into a faster response which makes the Rotar even closer to the customers.

Strenghts

Rotar is all trained and focused on:

- TRACEABILITY on all item
- CERTIFIED MATERIAL
- CUSTOMIZED ON SPECIFIC DESIGN
- FAST DELIVERY

References

ROTAR has a long experience in all markets possible. Here below some of those:

- Automotive
- Trucks, Heavy and Special Vehicoles
- Automation
- Food Handling Machinery
- · Packaging Machines
- Wood Machinery
- Military
- Aerospace
- Conveying
- Cinema Cameras



^{*} Rotar is a brand owned by OFFICINA MECCANICA F.LLI ARAMINI.

Product Portfolio

AL Series

Legacy

Steel Series with the best compromise for costratio. Perfect for medium-low speed and limited transmitted torque.



A Series

Steel Series

These joints are the result of an handmade careful construction method which reduces to zero the tollerances. This guarantees the BEST PERFOR-MANCES. A sofisticated grounding technic assures both a perfect axes parallelism and great single elements quality. All the components are hardened, grounded and lapped.



X Series

All Stainless Steel Series AISI 304. quality guarantes Higher material Performance allowed to the use in the FOOD and PHARMACEUTICAL INDUSTRY.



V Series

Steel and Stainless Steel Series HIGH PRECISION CARDAN JOINTS with NEEDLE BEARING. These joints are the result of an handmade careful construction method which reduces to zero the tollerances. This guarantees the BEST PERFORMANCES. A sofisticated grounding technic assures both a perfect axes parallelism and great single elements quality. All the components are hardened, prounded and lapped.



VC Series

High precision cardan joints with cross.



XV Series

A combination between the Stainless Steel X Series with the niddle bearing solution typical of the V Series.



Rolling Balls Shafts

High precision slip shaft with rolling balls. Specifically designed for high temperature and low friction applications.



Hi Performance

ER HY Series

The Easy Rotar HYBRID Series joins the legacy products to the newest HIGH PERFORMANCE ER HT Series. In fact, the internal ball is composed by one of the new patented material to get highest performances such as dust free movement, very high temperature typical of the ER HT Series.



ER HT Series

Based on new raw material (all patented), an entire new family of products suitable for several markets. These technical solutions grants foods certifications, dust and maintenence free environment, for medium high to very high temperature never reachd by the steel nor stainless stell solutions.







PRODUCT OVERVIEW

Rotar sets the New Standard in the Joints and Shafts World

LEGACY SERIES

	AL	Α	V	VC	X	XV
Available In	STEEL	STEEL	STEEL	STEEL	STAINLESS STEEL	STAINLESS STEEL
Weight	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
Speed	LOW	MEDIUM	VERY HIGH	VERY HIGH	LOW	VERY HIGH
Torque	HIGH	VERY HIGH	VERY HIGH	VERY HIGH	LOW	HIGH
Available Dimension	ALL	ALL	ALL	from 32-to 63 mm	ALL	ALL
Temperature	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM
Chemical Corrosion Resistance	LOW	LOW	LOW	LOW	MEDIUM	MEDIUM
Autolubricate	NO	NO	NO	NO	NO	NO
Dust Free	NO	NO	NO	NO	NO	NO
Special Diameters, Bores, Set Screw, Key Ways Applicable	YES	YES	YES	YES	YES	YES
Food Certified	NO	NO	NO	NO	NO	NO
uitable For Food, Pharmaceutical, Clean Room Applications	NO	NO	NO	NO	DEPENDING ON APPLICATION	DEPENDING ON APPLICATION
Suitable For Mechanical Applications	YES	YES	YES	YES	YES	YES
Suitable For Automotive Applications	YES	YES	YES YE		YES	YES
Shaft Available	YES	YES	YES	YES	YES	YES
Rolling Balls Shaft Available	NO	NO	YES	YES	NO	NO







HI PERFORMANCE SERIES

ER	HY		ER HT							
STAINLESS STEELS + R4FI	STEEL + R4TI	R4FI	R4FI-LT	R4TI	R4SI	R4P1	Available In			
MEDIUM	MEDIUM	VERY LOW	VERY LOW	VERY LOW	VERY LOW	VERY LOW	Weight			
HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	Speed			
HIGH	HIGH	MEDIUM	LOW	MEDIUM	MEDIUM	LOW	Torque			
ALL	ALL	ALL	ALL	ALL	ALL	ALL	Available Dimension			
HIGH	HIGH	VERY HIGH	HIGH	VERY HIGH	HIGH	MEDIUM	Temperature			
MEDIUM	MEDIUM	VERY HIGH	HIGH	VERY HIGH	HIGH	HIGH	Chemical Corrosion Resistance			
YES	YES	YES	YES	YES	YES	YES	Autolubricate			
YES	YES	YES	YES	YES	YES	YES	Dust Free			
YES	YES	YES	YES	YES	YES	YES	Special Diameters, Bores, Set Screw, Key Ways Applicable			
NO	NO	YES	YES	NO	NO	NO	Food Certified			
DEPENDING ON APPLICATION	NO	YES	YES	DEPENDING ON APPLICATION	DEPENDING ON APPLICATION	DEPENDING ON APPLICATION	Suitable For Food, Pharmaceutical, Clean Room Applications			
YES	YES	YES	YES	YES	YES	YES	Suitable For Mechanical Applications			
YES	YES	YES	YES	YES	YES	YES	Suitable For Automotive Applications			
NO	NO	YES	YES	YES	YES	YES	Shaft Available			
NO	NO	NO	NO	NO	NO	NO	Rolling Balls Shaft Available			







ER-HY Series

The **Easy Rotar HYBRID Series** joins the legacy products to the newest HIGH PERFORMANCE ER HT Series. In this Series, the internal ball is always made by the new patented material in order to get highest performances in those applications where the Legacy products meet their natural limits such as the very high temperature, the problem caused by the dust generated during the regular appliance, the restriction to work in some food environments and so on.

The ER-HY Series includes the following versions:

- Stainless Steel + R4FI (SS+R4FI).
- Steel + R4TI (S+R4TI).

Stainless Steel + R4FI Strenghts



This Version combines the hardness of the Stainless Steel and the Patented High Performance of the R4FI. The combination is a goal for all food packaging system manufactures who needs to handle heavy weights having guaranteed a dust free environment.

This solution grants an applicable very high torque. Available in the Double Joint Version.

Steel + R4TI Strenghts



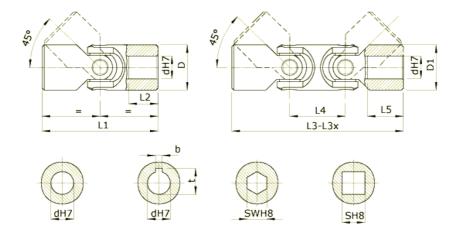
This Version combines the Steel and the Patented High Performance **CARBON FIBRE R4TI**. The combination is a goal for all manufactures who needs to handle heavy weights assuring a dust free environment.

This solution grants an applicable very high torque.

Available in the Double Joint Version.







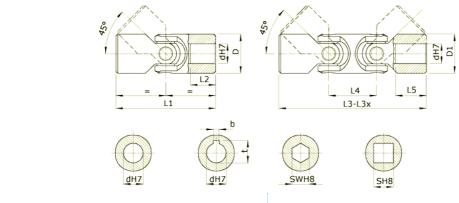
All models in the table are available in SS+R4FI and S+R4TI

	SINGL	E JOINT	s		BORES ON REQUEST						
TYPE	dh7	D	L1	L2	dh7	D	L1	L2	L1X	L2X	
100HY	5	10	40	13	-	-	-	-	-	-	
101HY	6	13	40	13	-	-	-	-	-	-	
102HY	8	16	40	10	-	-	-	-	-	-	
103HY	10	20	45	10	12	22	50	12	48	62	
104HY	12	25	50	11	14	25	56	14	56	74	
105HY	14	29	56	13	16	29	65	17	60	74	
106HY	16	32	65	15	18	32	72	18	68	86	
107HY	18	37	72	17	20	37	82	22	74	-	
108HY	20	40	82	19	22	40	95	25	108	-	
109HY	22	47	95	22	25	45	108	28	-	-	
110HY	25	50	108	27	30	50	122	34	105	132	
111HY	30	58	122	30	35	58	140	39	166	-	

		DOUE	BLE JOINT	BORES ON REQUEST							
TYPE	dh7	D1	L3	L3x	L4	L5	dh7	b	t	SH8	SWh8
-	-	-	-	-	-	-	-	-	-	-	5
101HYD	6	13	63	-	23	13	-	-	-	6	-
102HYD	8	16	67	-	27	10	-	2	9	8	8
103HYD	10	20	74	-	29	10	12	3	11,4	10	10
104HYD	12	22	74	86	29	11	16	4	13,8	12	12
105HYD	14	25	85	95	33	13	-	5	16,3	14	14
106HYD	16	29	100	104	35	19	20	5	18,3	16	16
107HYD	18	32	112	114	39	20	-	6	20,8	18	18
108HYD	20	40	128	127	46	19	25	6	22,8	20	20
109HYD	22	40	145	-	46	25	-	6	24,8	22	22
110HYD	25	50	163	-	59	24	-	8	28,3	25	25
111HYD	30	58	182	-	66	30	-	8	33,3	30	30

Single Joints with Quick Release

Available standard dimensions. Others on request. Stainless Stell solution X5Cr



TIPO	d	D	l1	12	В	E/F	s	sw	bxt
125HY	10	22	45	10	40	11/14	10	10	3x11,4
126HY	12	25	50	11	45	13/16	12	12	4x13,8
127HY	14	29	56	13	45	13/16	14	14	5x16,3
128HY	16	32	65	15	45	16/20	16	16	5x18,3
129HY	18	37	72	17	45	16/20	18	18	6x20,8
130HY	20	40	82	19	45	18/22	20	20	6x22,8
131HY	22	47	95	22	48	21/25	22	22	6x24,8
132HY	25	50	108	27	48	23/28	25	25	8x28,3
133HY	30	58	122	30	50	26/32	30	30	8x33,8
133HY	30	58	122	30	50	26/32	30	30	8x33,8







ER-HT Series

ROTAR's R&D took a long time to study such a great and wide possible solution products such as the ER-HT Series. The development involved chemists with a long experience in High Technocology Compounds which are even today something related to the future.

Rotar invested time, energy and belief in an innovative key that will move the Joints Application World in a fast forward step, in a totally new market which is today not yet investigated.

In Rotar, we think a bit out of the box, otherwise it would be difficult to understand why we are still believing that the Quality is a value in which we believe so strongly, and would be impossibile to understand why we worked so hard to make the best, even better presenting to the market an innovation like the one which is contained, in its technical beauty, in the ER-HT Series.

There are many opportunities which remain today without answers. ER-HT Series responds to all these requests and does it with technology, innovation and quality.

Based on new raw material (all patented), the Series of products is suitable for several markets. These technical solutions grants foods certifications, dust and maintenence free environment, for medium high to very high temperature never reached until today by the steel nor stainless stell solutions. With a 20% of the Stainless Steel weight, the ER-HT Series is the perfect solution for all applications which need a light and smart idea.

All these new compounds have been developed in cooperation with a top world chemical company.

The ER-HT Series includes the following versions:

- R4FI
- R4TI-LT
- R4TI
- R4SI
- R4P1

R4FI Strenghts



This new Series is proudly made with patented material called R4FI.

The R4FI (an owned mix based on the well known Polyether Ether Ketone) allows the direct handling and contact of food in accordance with the principles of good manufacturing practice in such a way that they do not give off any of their constituent parts to the food under normal or foreseeable conditions which could pose a threat to human health.

This stipulation is defined in food regulatory standards and safeguarded by means of tests, controls and stipulations. Significant institutions in this field are the FDA (Food and Drug Administration) in the USA, the BfR (Federal Institute for Risk Assessment) in Germany and the EFSA (European Food Safety Authority) for the EU.

It means that the new R4FI complies with the BfR, FDA or EU standard and are consequently compliant with food regulations and may be used in direct contact with food.

Some techs specs.

- > DUST FREE
- > Maintenance free (no lubrication needed)
- > Very High Chemical Corrosion Resistance
- > Max speed: 2000 RPM
- > Temperature range: -60 up to 250° C, with peek up to 300° C
- > Available in the Double Joint Version.
- > Applicable torque depending on the avg working Temperature, Speed and working angle.





R4FI-LT Strenghts



The R4FI-LT version is an High Performance Solution for those applications which need to safisty the same criteria of the R4FI except the Very High Working Temperature.

Some techs specs.

- > DUST FREE
- > Maintenance free (no lubrication needed)
- > High Chemical Corrosion Resistance
- > Max speed: 2000 RPM
- > Temperature range: up to 150° C
- > Available in the Double Joint Version.
- > Applicable torque depending on the avg working Temperature, Speed and working angle. For further info, please provide all this information.

R4TI Strenghts



R4TI is a product developed for the Top Industries which are seeking for the best performance in the motion technology in a very light material. The **Carbon Fiber** is an add on which adds roboustness, solid response to torsion, traction even in a very light product.

This solution grants an applicable very high torque.

Some techs specs.

- > DUST FREE
- > Maintenance free (no lubrication needed)
- > Very High Chemical Corrosion Resistance
- > Max speed: 2000 RPM
- > Temperature range: up to 150° C
- > Available in the Double Joint Version.
- > Applicable torque depending on the avg working Temperature, Speed and working angle. For further info, please provide all this information.

R4SI Strenghts



R4SI has been developed for all industries which are searching for a reliable solution which contains **Fiber Glass** as the add on

Some techs specs.

- > DUST FREE
- > Maintenance free (no lubrication needed)
- > High Chemical Corrosion Resistance
- > Max speed: 2000 RPM
- > Temperature range: up to 150° C
- > Available in the Double Joint Version.
- > Applicable torque depending on the avg working Temperature, Speed and working angle. For further info, please provide all this information.

R4P1 Strenghts



R4SI has been developed for all industries which are searching the best compromise to between High Performance and cost. The high product quality allow to be applied in a very wide range of applications.

Some techs specs.

- > DUST FREE
- > Maintenance free (no lubrication needed)
- > Very High Chemical Corrosion Resistance
- > Max speed: 2000 RPM
- > Temperature range: up to 60° C
- > Available in the Double Joint Version.
- > Applicable torque depending on the avg working Temperature, Speed and working angle. For further info, please provide all this information.



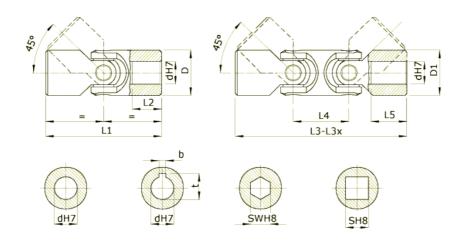
BORES ON REQUEST





Single Joints

Available standard dimensions. Others on request.



All models in the table are available in R4FI, R4FI-LT, R4TI, R4SI and R4P1

	SINGL	E JOINT	S		BORES ON REQUEST						
TYPE	dh7	D	L1	L2	dh7	D	L1	L2	L1X	L2X	
100HT	5	10	40	13	-	-	-	-	-	-	
101HT	6	13	40	13	-	-	-	-	-	-	
102HT	8	16	40	10	-	-	-	-	-	-	
103HT	10	20	45	10	12	22	50	12	48	62	
104HT	12	25	50	11	14	25	56	14	56	74	
105HT	14	29	56	13	16	29	65	17	60	74	
106HT	16	32	65	15	18	32	72	18	68	86	
107HT	18	37	72	17	20	37	82	22	74	-	
108HT	20	40	82	19	22	40	95	25	108	-	
109HT	22	47	95	22	25	45	108	28	-	-	
110HT	25	50	108	27	30	50	122	34	105	132	
111HT	30	58	122	30	35	58	140	39	166	-	

		DOOL	JLL JOIN	BORLS ON REGULST							
TYPE	dh7	D1	L3	L3x	L4	L5	dh7	b	t	SH8	SWh8
-	-	-	-	-	-	-	-	-	-	-	5
101HTD	6	13	63	-	23	13	-	-	-	6	-
102HTD	8	16	67	-	27	10	-	2	9	8	8
103HTD	10	20	74	-	29	10	12	3	11,4	10	10
104HTD	12	22	74	86	29	11	16	4	13,8	12	12
105HTD	14	25	85	95	33	13	-	5	16,3	14	14
106HTD	16	29	100	104	35	19	20	5	18,3	16	16
107HTD	18	32	112	114	39	20	-	6	20,8	18	18
108HTD	20	40	128	127	46	19	25	6	22,8	20	20
109HTD	22	40	145	-	46	25	-	6	24,8	22	22
110HTD	25	50	163	-	59	24	-	8	28,3	25	25
111HTD	30	58	182	-	66	30	-	8	33,3	30	30

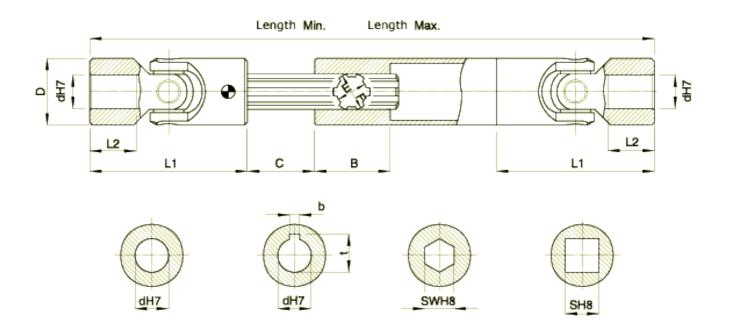
DOUBLE JOINTS





Slip Shafts with ER-HT Series Joints

Available standard dimensions. Others on request.



TYPE	MIN LENGTH	MAX LENGTH	KEYWAY	QTY	dh7	D	L1	L2	В	bxt	E	F	STROKE
125HT	130	150	ВТ	2	10,00	22,00	45,00	10,00	40,00	3 X 11,4	11	14	20
125HT	140	170	ВТ	2	10,00	22,00	45,00	10,00	40,00	3 X 11,4	11	14	30
125HT	160	200	ВТ	2	10,00	22,00	45,00	10,00	40,00	3 X 11,4	11	14	40
125HT	170	230	ВТ	2	10,00	22,00	45,00	10,00	40,00	3 X 11,4	11	14	60
125HT	1080	240	ВТ	2	10,00	22,00	45,00	10,00	40,00	3 X 11,4	11	14	60
125HT	230	330	ВТ	2	10,00	22,00	45,00	10,00	40,00	3 X 11,4	11	14	100
126HT	140	170	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	30
126HT	160	200	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	40
126HT	180	225	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	45
126HT	200	270	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	70
126HT	220	300	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	80
126HT	250	355	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	105
126HT	280	420	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	140
126HT	300	450	ВТ	2	12,00	25,00	50,00	11,00	45,00	4 X 13,8	13	16	150
127HT	160	190	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	30
127HT	170	200	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	30
127HT	180	220	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	40
127HT	200	260	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	60
127HT	210	280	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	70
127HT	220	300	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	80
127HT	250	350	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	100
127HT	280	420	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	140
127HT	300	450	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	150
127HT	350	550	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	200





ER-HT SERIES

			,		,	,	,	,			,		,
127HT	400	650	ВТ	2	14,00	29,00	56,00	13,00	45,00	5 X 16,3	13	16	250
128HT	180	210	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	30
128HT	190	220	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	30
										5 x 18,3			40
128HT	210	250	ВТ	2	16,00	32,00	65,00	15,00	45,00		16	20	
128HT	240	320	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	80
128HT	250	350	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	100
128HT	275	390	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	115
128HT	300	430	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	130
128HT	380	590	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	210
128HT	400	630	ВТ	2	16,00	32,00	65,00	15,00	45,00	5 x 18,3	16	20	230
			ВТ	2									
129HT	195	225			18,00	37,00	72,00	17,00	45,00	6 x 20,8	16	20	30
129HT	230	280	ВТ	2	18,00	37,00	72,00	17,00	45,00	6 x 20,8	16	20	50
129HT	250	320	ВТ	2	18,00	37,00	72,00	17,00	45,00	6 x 20,8	16	20	70
129HT	270	370	ВТ	2	18,00	37,00	72,00	17,00	45,00	6 x 20,8	16	20	100
129HT	290	400	BT	2	18,00	37,00	72,00	17,00	45,00	6 x 20,8	16	20	110
129HT	300	415	ВТ	2	18,00	37,00	72,00	17,00	45,00	6 x 20,8	16	20	115
129HT	400	620	ВТ	2	18,00	37,00	72,00	17,00	45,00	6 x 20,8	16	20	220
	500	820	ВТ	2							16	20	320
129HT					18,00	37,00	72,00	17,00	45,00	6 x 20,8			
130HT	220	250	BT 	2	20,00	40,00	82,00	19,00	45,00	6 x 22,8	18	22	30
130HT 130H	250 270	300 340	BT BT	2	20,00	40,00 40,00	82,00 82,00	19,00 19,00	45,00 45,00	6 x 22,8 6 x 22,8	18 18	22	50 70
130HT	290	380	BT	2	20,00	40,00	82,00	19,00	45,00	6 x 22,8	18	22	90
130HT	320	440	BT	2	20,00	40,00	82,00	19,00	45,00	6 x 22,8	18	22	120
130HT	380	560	ВТ	2	20,00	40,00	82,00	19,00	45,00	6 x 22,8	18	22	180
130HT	420	640	ВТ	2	20,00	40,00	82,00	19,00	45,00	6 x 22,8	18	22	220
130HT	500	800	BT	2	20,00	40,00	82,00	19,00	45,00	6 x 22,8	18	22	300
131HT 131HT	250 270	280 320	BT BT	2	22,00 22,00	47,00 47,00	95,00 95,00	22,00 22,00	48,00 48,00	6 x 24,8 6 x 24,8	21 21	25 25	30 50
131HT	290	350	ВТ	2	22,00	47,00	95,00	22,00	48,00	6 x 24,8	21	25	60
131HT	330	430	ВТ	2	22,00	47,00	95,00	22,00	48,00	6 x 24,8	21	25	100
131HT	350	470	BT	2	22,00	47,00	95,00	22,00	48,00	6 x 24,8	21	25	120
131HT	470	710	BT	2	22,00	47,00	95,00	22,00	48,00	6 x 24,8	21	25	240
132HT 132HT	270 295	320 350	BT BT	2	25,00 25,00	50,00 50,00	108,00 108,00	26,00 26,00	48,00 48,00	8 x 28,3 8 x 28,3	23 23	28 28	50 55
132HT	310	375	BT	2	25,00	50,00	108,00	26,00	48,00	8 x 28,3	23	28	65
132HT	350	450	ВТ	2	25,00	50,00	108,00	26,00	48,00	8 x 28,3	23	28	100
132HT	380	500	ВТ	2	25,00	50,00	108,00	26,00	48,00	8 x 28,3	23	28	120
132HT	420	590	BT	2	25,00	50,00	108,00	26,00	48,00	8 x 28,3	23	28	170
132HT 132HT	460 500	660 745	BT BT	2	25,00 25,00	50,00 50,00	108,00 108,00	26,00 26,00	48,00 48,00	8 x 28,3 8 x 28,3	23 23	28 28	200 245
133HT	320	390	BT	2	30,00	58,00	122,00	30,00	50,00	8 x 33,3	26	32	70
133HT	350	420	ВТ	2	30,00	58,00	122,00	30,00	50,00	8 x 33,3	26	32	70
133HT	370	455	ВТ	2	30,00	58,00	122,00	30,00	50,00	8 x 33,3	26	32	85
133HT	400	510	BT 	2	30,00	58,00	122,00	30,00	50,00	8 x 33,3	26	32	110
133HT 133HT	450 500	620 720	BT BT	2	30,00	58,00 58,00	122,00 122,00	30,00	50,00 50,00	8 x 33,3 8 x 33,3	26 26	32 32	170 220
133HT	540	720	BT	2	30,00	58,00	122,00	30,00 30,00	50,00	8 x 33,3	26	32	255
134HT			BT	2	35,00	70,00	140,00	35,00	50,00				ON RE- QUEST
135HT			ВТ	2	40,00	80,00	160,00	42,00	50,00				ON RE- QUEST
136HT			ВТ	2	50,00	95,00	190,00	54,00	50,00				ON RE- QUEST







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