



Размер D 0,2-6

HLRS • HLRS-E



22 новых моделей

Обрабатываемый материал (наиболее подходящий, подходящий)

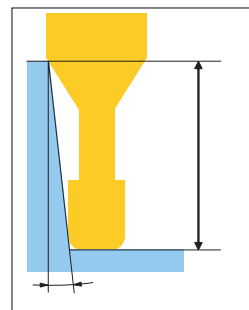
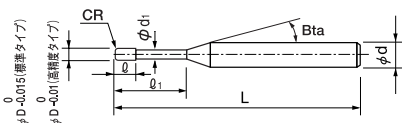
Материал									Рекомендуемое охлаждение — Подходящее охлаждение	
Углеродистые стали S45C S55C	Легированные стали SK-SCM SUS	Упрочненные стали NAK HPM	Закаленные стали			Чугун	Алюминиевые сплавы	Графит		Медь
			(~55HRC)	(~60HRC)	(~65HRC)					
									*1	

*1 Рекомендуется масло или водная эмульсия для фрезерования Меди

Общее количество моделей 245

Ед.изм. (мм)

Модель	Рабочий диаметр	Радиус угла	Длина рабочей части	Длина режущей части	Диаметр шейки	Угол конуса	Общая длина	Диаметр хвостов.	Цена
	D	CR	ℓ ₁	ℓ	φ d ₁	β/α	L	d	
HLRS 2002-005-005 E	0.2	R0.05	0.5	0.2	0.17	16°	50	4	
HLRS 2002-005-010 E			1				50	4	
HLRS 2003-005-010 E	0.3	R0.05	1	0.3	0.27	16°	50	4	
HLRS 2003-005-020 E			2				50	4	
HLRS 2004-005-010 E	0.4	R0.05	1	0.4	0.38	16°	50	4	
HLRS 2004-005-015 E			1.5				50	4	
HLRS 2004-005-020 E			2				50	4	
HLRS 2004-005-030 E			3				50	4	
HLRS 2004-005-040 E			4				50	4	
HLRS 2004-01-010			1				50	4	
HLRS 2004-01-015		1.5	50				4		
HLRS 2004-01-020		R0.1	2				50	4	
HLRS 2004-01-030			3				50	4	
HLRS 2004-01-040			4				50	4	
HLRS 2005-01-010	1		50	4					
HLRS 2005-01-020	0.5	R0.1	2	0.5	0.48	16°	50	4	
HLRS 2005-01-030			3				50	4	
HLRS 2005-01-040			4				50	4	
HLRS 2005-01-050			5				50	4	
HLRS 2005-01-060			6				50	4	
HLRS 2006-01-020			0.6				R0.1	2	0.6
HLRS 2006-01-020 E	2	50		4					
HLRS 2006-01-030	3	50		4					
HLRS 2006-01-030 E	3	50		4					
HLRS 2006-01-040	4	50		4					
HLRS 2006-01-040 E	4	50		4					
HLRS 2006-01-060	6	50		4					
HLRS 2006-01-080	8	50		4					



	0/-0.015	±0.005 ±0.005
	0/-0.01	±0.005 ±0.005

Модель	Рабочий диаметр D	Радиус угла CR	Длина раб. части ℓ ₁	Длина раб. части при различных углах наклона				
				30'	1°	1°30'	2°	3°
				HLRS 2002-005-005 E	0.2	R0.05	0.5	0.65
HLRS 2002-005-010 E	1	1.25	1.43	1.58			1.71	1.94
HLRS 2003-005-010 E	0.3	R0.05	1	1.25	1.43	1.58	1.71	1.94
HLRS 2003-005-020 E			2	2.38	2.61	2.79	2.95	3.22
HLRS 2004-005-010 E	0.4	R0.05	1	1.25	1.43	1.58	1.71	1.94
HLRS 2004-005-015 E			1.5	1.82	2.03	2.19	2.34	2.59
HLRS 2004-005-020 E			2	2.38	2.61	2.79	2.95	3.22
HLRS 2004-005-030 E			3	3.48	3.74	3.95	4.13	4.30
HLRS 2004-005-040 E			4	4.56	4.85	5.08	5.28	5.67
HLRS 2004-01-010			R0.1	1	1.24	1.42	1.57	1.69
HLRS 2004-01-015		1.5		1.81	2.02	2.18	2.32	2.57
HLRS 2004-01-020		2		2.37	2.60	2.78	2.93	3.20
HLRS 2004-01-030		3		3.47	3.73	3.94	4.11	4.28
HLRS 2004-01-040		4	4.55	4.84	5.07	5.26	5.65	
HLRS 2005-01-010	0.5	R0.1	1	1.24	1.42	1.57	1.69	1.92
HLRS 2005-01-020			2	2.37	2.60	2.78	2.93	3.20
HLRS 2005-01-030			3	3.47	3.73	3.94	4.11	4.28
HLRS 2005-01-040			4	4.55	4.84	5.07	5.26	5.65
HLRS 2005-01-050			5	5.62	5.94	6.19	6.40	6.88
HLRS 2005-01-060			6	6.68	7.03	7.30	7.54	8.10
HLRS 2006-01-020	0.6	R0.1	2	2.37	2.60	2.78	2.93	3.20
HLRS 2006-01-020 E				2.37	2.60	2.78	2.93	3.20
HLRS 2006-01-030		3	3.47	3.73	3.94	4.11	4.28	
HLRS 2006-01-030 E			3.47	3.73	3.94	4.11	4.28	
HLRS 2006-01-040		4	4.55	4.84	5.07	5.26	5.65	
HLRS 2006-01-040 E			4.55	4.84	5.07	5.26	5.65	
HLRS 2006-01-060		6	6.68	7.03	7.30	7.54	8.10	
HLRS 2006-01-080		8	8.79	9.18	9.50	9.82	10.55	

Обозначение новой модели

Модель	Рабочий диаметр D	Радиус угла CR	Длина рабочей части l_1	Длина режущей части l	Диаметр шейки ϕd_1	Угол конуса Beta	Общая длина L	Диаметр хвостов. d	Цена	
HLRS 2007-01-040	0.7	R0.1	4	0.7	0.68	16 °	50	4		
HLRS 2007-01-060			6				50	4		
HLRS 2008-01-040	0.8	R0.1	4	0.8	0.78	16 °	50	4		
HLRS 2008-01-060			6				50	4		
HLRS 2008-02-040		R0.2	4				50	4		
HLRS 2008-02-060			6				50	4		
HLRS 2010-01-020	1	R0.1	2	1	0.95	16 °	50	4		
HLRS 2010-01-020 E			50				4			
HLRS 2010-01-040			4				50	4		
HLRS 2010-01-040 E			50				4			
HLRS 2010-01-060			6				50	4		
HLRS 2010-01-060 E			50				4			
HLRS 2010-01-080			8				50	4		
HLRS 2010-01-100			10				50	4		
HLRS 2010-01-120			12				55	4		
HLRS 2010-01-160			16				60	4		
HLRS 2010-01-200			20				60	4		
HLRS 2010-02-020			R0.2				2	50	4	
HLRS 2010-02-020 E							50	4		
HLRS 2010-02-040							4	50	4	
HLRS 2010-02-040 E							50	4		
HLRS 2010-02-060							6	50	4	
HLRS 2010-02-060 E		50					4			
HLRS 2010-02-080		8					50	4		
HLRS 2010-02-100		10					50	4		
HLRS 2010-02-120		12					55	4		
HLRS 2010-02-160		16					60	4		
HLRS 2010-02-200		20					60	4		
HLRS 2010-03-020		R0.3					2	50	4	
HLRS 2010-03-020 E							50	4		
HLRS 2010-03-040							4	50	4	
HLRS 2010-03-040 E							50	4		
HLRS 2010-03-060							6	50	4	
HLRS 2010-03-060 E			50				4			
HLRS 2010-03-080			8				50	4		
HLRS 2010-03-100			10				50	4		
HLRS 2010-03-120			12				55	4		
HLRS 2010-03-160			16				60	4		
HLRS 2010-03-200	20	60	4							
HLRS 2012-02-060	1.2	R0.2	6	1.2	1.14	16 °	50	4		
HLRS 2012-02-120			12				55	4		
HLRS 2012-02-200			20				60	4		
HLRS 2012-03-060		R0.3	6				50	4		
HLRS 2012-03-120			12				55	4		
HLRS 2012-03-200			20				60	4		



Модель	Рабочий диаметр D	Радиус угла CR	Длина раб. части l_1	Длина раб. части при различных углах наклона					
				30'	1°	1°30'	2°	3°	
HLRS 2007-01-040	0.7	R0.1	4	4.55	4.84	5.07	5.26	5.65	
HLRS 2007-01-060			6	6.68	7.03	7.30	7.54	8.10	
HLRS 2008-01-040	0.8	R0.1	4	4.55	4.84	5.07	5.26	5.65	
HLRS 2008-01-060			6	6.68	7.03	7.30	7.54	8.10	
HLRS 2008-02-040		R0.2	4	4.53	4.82	5.05	5.23	5.61	
HLRS 2008-02-060			6	6.66	7.01	7.28	7.51	8.06	
HLRS 2010-01-020	1	R0.1	2	2.53	2.71	2.88	3.01	3.27	
HLRS 2010-01-020 E				2.53	2.71	2.88	3.01	3.27	
HLRS 2010-01-040			4	4.67	4.93	5.14	5.33	5.72	
HLRS 2010-01-040 E				4.67	4.93	5.14	5.33	5.72	
HLRS 2010-01-060			6	6.78	7.10	7.36	7.60	8.17	
HLRS 2010-01-060 E				6.78	7.10	7.36	7.60	8.17	
HLRS 2010-01-080			8	8.88	9.24	9.56	9.88	10.61	
HLRS 2010-01-100			10	10.97	11.37	11.76	12.16	13.06	
HLRS 2010-01-120			12	13.05	13.50	13.96	14.44	15.51	
HLRS 2010-01-160			16	17.20	17.76	18.36	18.99	20.40	
HLRS 2010-01-200			20	21.33	22.02	22.76	23.54	25.30	
HLRS 2010-02-020			R0.2	2	2.51	2.69	2.86	2.98	3.23
HLRS 2010-02-020 E					2.51	2.69	2.86	2.98	3.23
HLRS 2010-02-040				4	4.65	4.91	5.12	5.30	5.68
HLRS 2010-02-040 E		4.65			4.91	5.12	5.30	5.68	
HLRS 2010-02-060		6		6.76	7.08	7.34	7.57	8.13	
HLRS 2010-02-060 E				6.76	7.08	7.34	7.57	8.13	
HLRS 2010-02-080		8		8.86	9.22	9.54	9.85	10.57	
HLRS 2010-02-100		10		10.95	11.35	11.74	12.13	13.02	
HLRS 2010-02-120		12		13.03	13.48	13.94	14.41	15.47	
HLRS 2010-02-160		16		17.18	17.74	18.34	18.96	20.36	
HLRS 2010-02-200		20		21.31	22.00	22.74	23.51	25.26	
HLRS 2010-03-020		R0.3		2	2.49	2.67	2.84	2.95	3.19
HLRS 2010-03-020 E					2.49	2.67	2.84	2.95	3.19
HLRS 2010-03-040				4	4.63	4.89	5.10	5.27	5.64
HLRS 2010-03-040 E			4.63		4.89	5.10	5.27	5.64	
HLRS 2010-03-060			6	6.74	7.06	7.32	7.54	8.09	
HLRS 2010-03-060 E				6.74	7.06	7.32	7.54	8.09	
HLRS 2010-03-080			8	8.84	9.20	9.52	9.82	10.53	
HLRS 2010-03-100			10	10.93	11.33	11.72	12.10	12.98	
HLRS 2010-03-120			12	13.01	13.46	13.92	14.38	15.43	
HLRS 2010-03-160			16	17.16	17.72	18.32	18.93	20.32	
HLRS 2010-03-200			20	21.29	21.98	22.72	23.48	25.22	
HLRS 2012-02-060			1.2	R0.2	6	6.18	6.38	6.59	6.82
HLRS 2012-02-120	12				12.37	12.77	13.19	13.65	14.67
HLRS 2012-02-200	20				20.62	21.29	22.00	22.76	24.46
HLRS 2012-03-060	R0.3	6		6.18	6.38	6.59	6.81	7.31	
HLRS 2012-03-120		12		12.37	12.77	13.19	13.64	14.66	
HLRS 2012-03-200		20		20.62	21.28	21.99	22.75	24.45	

Модель	Рабочий диаметр	Радиус угла	Длина рабочей части	Длина режущей части	Диаметр шейки	Угол конуса	Общая длина	Диаметр хвостов.	Цена
	D	CR	l_1	l	ϕ_{d1}	$\beta_{та}$	L	d	
HLRS 2015-02-040	1.5	R0.2	4	1.5	1.45	16°	50	4	
HLRS 2015-02-060			6				50	4	
HLRS 2015-02-080			8				50	4	
HLRS 2015-02-100			10				50	4	
HLRS 2015-02-120			12				55	4	
HLRS 2015-02-160			16				55	4	
HLRS 2015-02-200			20				60	4	
HLRS 2015-03-040		R0.3	4				50	4	
HLRS 2015-03-060			6				50	4	
HLRS 2015-03-080			8				50	4	
HLRS 2015-03-100			10				50	4	
HLRS 2015-03-120			12				55	4	
HLRS 2015-03-160			16				55	4	
HLRS 2015-03-200			20				60	4	
HLRS 2015-05-040		R0.5	4				50	4	
HLRS 2015-05-060			6				50	4	
HLRS 2015-05-080			8				50	4	
HLRS 2015-05-100			10				50	4	
HLRS 2015-05-120			12				55	4	
HLRS 2015-05-160			16				55	4	
HLRS 2015-05-200	20		60	4					
HLRS 2020-01-040	2	R0.1	4	2	1.92	16°	50	4	
HLRS 2020-01-040 E			50				4		
HLRS 2020-01-060			6				50	4	
HLRS 2020-01-060 E			50				4		
HLRS 2020-01-080			8				50	4	
HLRS 2020-01-080 E			50				4		
HLRS 2020-01-100			10				50	4	
HLRS 2020-01-100 E			50				4		
HLRS 2020-01-120			12				55	4	
HLRS 2020-01-120 E			55				4		
HLRS 2020-01-160			16				60	4	
HLRS 2020-01-200			20				60	4	
HLRS 2020-01-260			26				70	4	
HLRS 2020-02-040		R0.2	4				50	4	
HLRS 2020-02-040 E			50				4		
HLRS 2020-02-060			6				50	4	
HLRS 2020-02-060 E			50				4		
HLRS 2020-02-080			8				50	4	
HLRS 2020-02-080 E			50				4		
HLRS 2020-02-100			10				50	4	
HLRS 2020-02-100 E			50				4		
HLRS 2020-02-120			12				55	4	
HLRS 2020-02-120 E			55				4		
HLRS 2020-02-160			16				60	4	
HLRS 2020-02-200			20				60	4	
HLRS 2020-02-260			26				70	4	



Модель	Рабочий диаметр D	Радиус угла CR	Длина раб. части l_1	Длина раб. части при различных углах наклона				
				30°	1°	1°30'	2°	3°
HLRS 2015-02-040	1.5	R0.2	4	4.12	4.25	4.39	4.54	4.88
HLRS 2015-02-060			6	6.18	6.38	6.59	6.82	7.33
HLRS 2015-02-080			8	8.24	8.51	8.79	9.10	9.77
HLRS 2015-02-100			10	10.31	10.64	10.99	11.37	12.22
HLRS 2015-02-120			12	12.37	12.77	13.19	13.65	14.67
HLRS 2015-02-160			16	16.49	17.03	17.60	18.21	19.56
HLRS 2015-02-200			20	20.62	21.29	22.00	22.76	
HLRS 2015-03-040		R0.3	4	4.12	4.25	4.39	4.54	4.87
HLRS 2015-03-060			6	6.18	6.38	6.59	6.81	7.31
HLRS 2015-03-080			8	8.24	8.51	8.79	9.09	9.76
HLRS 2015-03-100			10	10.30	10.64	10.99	11.37	12.21
HLRS 2015-03-120			12	12.37	12.77	13.19	13.64	14.66
HLRS 2015-03-160			16	16.49	17.02	17.59	18.20	19.55
HLRS 2015-03-200			20	20.62	21.28	21.99	22.75	
HLRS 2015-05-040		R0.5	4	4.11	4.24	4.38	4.52	4.85
HLRS 2015-05-060			6	6.18	6.37	6.58	6.80	7.29
HLRS 2015-05-080			8	8.24	8.50	8.78	9.08	9.74
HLRS 2015-05-100			10	10.30	10.63	10.98	11.35	12.19
HLRS 2015-05-120			12	12.36	12.76	13.18	13.63	14.64
HLRS 2015-05-160			16	16.49	17.02	17.58	18.19	19.53
HLRS 2015-05-200	20		20.62	21.28	21.98	22.74	24.42	
HLRS 2020-01-040	2	R0.1	4	4.16	4.29	4.43	4.59	4.93
HLRS 2020-01-040 E				4.16	4.29	4.43	4.59	4.93
HLRS 2020-01-060			6	6.22	6.42	6.64	6.87	7.38
HLRS 2020-01-060 E				6.22	6.42	6.64	6.87	7.38
HLRS 2020-01-080			8	8.28	8.55	8.84	9.14	9.83
HLRS 2020-01-080 E				8.28	8.55	8.84	9.14	9.83
HLRS 2020-01-100			10	10.34	10.68	11.04	11.42	12.27
HLRS 2020-01-100 E				10.34	10.68	11.04	11.42	12.27
HLRS 2020-01-120			12	12.41	12.81	13.24	13.70	14.72
HLRS 2020-01-120 E				12.41	12.81	13.24	13.70	14.72
HLRS 2020-01-160			16	16.53	17.07	17.64	18.25	
HLRS 2020-01-200		20	20.66	21.33	22.04	22.81		
HLRS 2020-01-260		26	26.85	27.72	28.65			
HLRS 2020-02-040		R0.2	4	4.15	4.29	4.43	4.58	4.92
HLRS 2020-02-040 E				4.15	4.29	4.43	4.58	4.92
HLRS 2020-02-060			6	6.22	6.42	6.63	6.86	7.37
HLRS 2020-02-060 E				6.22	6.42	6.63	6.86	7.37
HLRS 2020-02-080			8	8.28	8.55	8.83	9.14	9.82
HLRS 2020-02-080 E				8.28	8.55	8.83	9.14	9.82
HLRS 2020-02-100			10	10.34	10.68	11.03	11.41	12.26
HLRS 2020-02-100 E				10.34	10.68	11.03	11.41	12.26
HLRS 2020-02-120			12	12.40	12.81	13.23	13.69	14.71
HLRS 2020-02-120 E				12.40	12.81	13.23	13.69	14.71
HLRS 2020-02-160			16	16.53	17.06	17.64	18.25	
HLRS 2020-02-200			20	20.66	21.32	22.04	22.80	
HLRS 2020-02-260			26	26.84	27.71	28.64		



Модель	Рабочий диаметр D	Радиус угла CR	Длина рабочей части l_1	Длина режущей части l	Диаметр шейки ϕd_1	Угол конуса $\beta_{та}$	Общая длина L	Диаметр хвостов. d	Цена	
HLRS 2020-03-040	2	R0.3	4	2	1.92	16 °	50	4		
HLRS 2020-03-040 E							50	4		
HLRS 2020-03-060			6				50	4		
HLRS 2020-03-060 E							50	4		
HLRS 2020-03-080			8				50	4		
HLRS 2020-03-080 E							50	4		
HLRS 2020-03-100			10				50	4		
HLRS 2020-03-100 E							50	4		
HLRS 2020-03-120			12				55	4		
HLRS 2020-03-120 E							55	4		
HLRS 2020-03-160			16				60	4		
HLRS 2020-03-200							20	60	4	
HLRS 2020-03-260			26					70	4	
HLRS 2020-05-040							R0.5	4	50	4
HLRS 2020-05-040 E		50	4							
HLRS 2020-05-060		6	50					4		
HLRS 2020-05-060 E			50					4		
HLRS 2020-05-080		8	50					4		
HLRS 2020-05-080 E			50					4		
HLRS 2020-05-100		10	50					4		
HLRS 2020-05-100 E			50					4		
HLRS 2020-05-120		12	55					4		
HLRS 2020-05-120 E			55					4		
HLRS 2020-05-160		16	60					4		
HLRS 2020-05-200			20					60	4	
HLRS 2020-05-260		26						70	4	
HLRS 2025-03-100	2.5		R0.3	10	2.5	2.42		16 °	50	4
HLRS 2025-03-200		20		60			4			
HLRS 2025-03-300		30		70			4			
HLRS 2025-05-100		R0.5	10	50			4			
HLRS 2025-05-200			20	60			4			
HLRS 2025-05-300			30	70			4			
HLRS 2030-01-060	3	R0.1	6	3	2.92	16 °	55	6		
HLRS 2030-01-060 E							55	6		
HLRS 2030-01-160			16				60	6		
HLRS 2030-01-160 E							60	6		
HLRS 2030-01-260							26	70	6	
HLRS 2030-01-360								36	80	6
HLRS 2030-02-060		R0.2	6				55	6		
HLRS 2030-02-060 E							55	6		
HLRS 2030-02-160			16				60	6		
HLRS 2030-02-160 E							60	6		
HLRS 2030-02-260							26	70	6	
HLRS 2030-02-360								36	80	6



Модель	Рабочий диаметр D	Радиус угла CR	Длина раб. части ℓ ₁	Длина раб. части при различных углах наклона					
				30°	1°	1°30'	2°	3°	
HLRS 2020-03-040	2	R0.3	4	4.15	4.28	4.42	4.57	4.91	
HLRS 2020-03-040 E				4.15	4.28	4.42	4.57	4.91	
HLRS 2020-03-060			6	6.21	6.41	6.63	6.85	7.36	
HLRS 2020-03-060 E				6.21	6.41	6.63	6.85	7.36	
HLRS 2020-03-080			8	8.28	8.54	8.83	9.13	9.80	
HLRS 2020-03-080 E				8.28	8.54	8.83	9.13	9.80	
HLRS 2020-03-100			10	10.34	10.67	11.03	11.41	12.25	
HLRS 2020-03-100 E				10.34	10.67	11.03	11.41	12.25	
HLRS 2020-03-120			12	12.40	12.80	13.23	13.68	14.70	
HLRS 2020-03-120 E				12.40	12.80	13.23	13.68	14.70	
HLRS 2020-03-160			16	16.53	17.06	17.63	18.24	19.59	
HLRS 2020-03-200				20	20.65	21.32	22.03	22.79	
HLRS 2020-03-260			26	26.84	27.71	28.64			
HLRS 2020-05-040			2	R0.5	4	4.15	4.28	4.41	4.56
HLRS 2020-05-040 E		4.15				4.28	4.41	4.56	4.89
HLRS 2020-05-060		6			6.21	6.41	6.62	6.84	7.34
HLRS 2020-05-060 E					6.21	6.41	6.62	6.84	7.34
HLRS 2020-05-080		8			8.27	8.54	8.82	9.12	9.78
HLRS 2020-05-080 E					8.27	8.54	8.82	9.12	9.78
HLRS 2020-05-100		10			10.34	10.67	11.02	11.39	12.23
HLRS 2020-05-100 E					10.34	10.67	11.02	11.39	12.23
HLRS 2020-05-120		12			12.40	12.80	13.22	13.67	14.68
HLRS 2020-05-120 E					12.40	12.80	13.22	13.67	14.68
HLRS 2020-05-160		16			16.53	17.06	17.62	18.23	19.57
HLRS 2020-05-200					20	20.65	21.31	22.02	22.78
HLRS 2020-05-260		26			26.84	27.70	28.63		
HLRS 2025-03-100	2.5	R0.3			10	10.34	10.67	11.03	11.41
HLRS 2025-03-200			20	20.65	21.32	22.03			
HLRS 2025-03-300			30	30.97	31.97				
HLRS 2025-05-100		R0.5	10	10.34	10.67	11.02	11.39	12.23	
HLRS 2025-05-200			20	20.65	21.31	22.02			
HLRS 2025-05-300			30	30.97	31.96				
HLRS 2030-01-060	3	R0.1	6	6.21	6.42	6.63	6.86	7.37	
HLRS 2030-01-060 E				6.21	6.42	6.63	6.86	7.37	
HLRS 2030-01-160			16	16.53	17.06	17.64	18.25	19.61	
HLRS 2030-01-160 E				16.53	17.06	17.64	18.25	19.61	
HLRS 2030-01-260			26	26.84	27.71	28.64	29.64		
HLRS 2030-01-360				36	37.16	38.36	39.65	41.02	
HLRS 2030-02-060		R0.2	6	6.21	6.41	6.63	6.85	7.36	
HLRS 2030-02-060 E				6.21	6.41	6.63	6.85	7.36	
HLRS 2030-02-160			16	16.53	17.06	17.63	18.24	19.60	
HLRS 2030-02-160 E				16.53	17.06	17.63	18.24	19.60	
HLRS 2030-02-260			26	26.84	27.71	28.64	29.63		
HLRS 2030-02-360				36	37.15	38.36	39.64	41.02	



Модель	Рабочий диаметр	Радиус угла	Длина рабочей части	Длина режущей части	Диаметр шейки	Угол конуса	Общая длина	Диаметр хвостов.	Цена
	D	CR	ℓ ₁	ℓ	φ _{d1}	β _{та}	L	d	
HLRS 2030-03-060	3	R0.3	6	3	2.92	16 °	55	6	
HLRS 2030-03-060 E			55				6		
HLRS 2030-03-160			60				6		
HLRS 2030-03-160 E			60				6		
HLRS 2030-03-260			70				6		
HLRS 2030-03-360			80				6		
HLRS 2030-05-060		R0.5	6				55	6	
HLRS 2030-05-060 E			55				6		
HLRS 2030-05-160			60				6		
HLRS 2030-05-160 E			60				6		
HLRS 2030-05-260			70				6		
HLRS 2030-05-360			80				6		
HLRS 2030-10-060		R1	6				55	6	
HLRS 2030-10-060 E			55				6		
HLRS 2030-10-160			60				6		
HLRS 2030-10-160 E			60				6		
HLRS 2030-10-260			70				6		
HLRS 2030-10-360			80				6		
HLRS 2040-01-080	4	R0.1	8	4	3.82	16 °	65	6	
HLRS 2040-01-080 E			65				6		
HLRS 2040-01-200			65				6		
HLRS 2040-01-200 E			65				6		
HLRS 2040-01-320			80				6		
HLRS 2040-01-480			100				6		
HLRS 2040-02-080		R0.2	8				65	6	
HLRS 2040-02-080 E			65				6		
HLRS 2040-02-200			65				6		
HLRS 2040-02-200 E			65				6		
HLRS 2040-02-320			80				6		
HLRS 2040-02-480			100				6		
HLRS 2040-03-080		R0.3	8				65	6	
HLRS 2040-03-080 E			65				6		
HLRS 2040-03-200			65				6		
HLRS 2040-03-200 E			65				6		
HLRS 2040-03-320			80				6		
HLRS 2040-03-480			100				6		
HLRS 2040-05-080		R0.5	8				65	6	
HLRS 2040-05-080 E			65				6		
HLRS 2040-05-200			65				6		
HLRS 2040-05-200 E			65				6		
HLRS 2040-05-320			80				6		
HLRS 2040-05-480			100				6		

Модель	Рабочий диаметр	Радиус угла	Длина раб. части	Длина раб. части при различных углах наклона				
				30°	1°	1°30'	2°	3°
HLRS 2030-03-060	3	R0.3	6	6.21	6.41	6.62	6.85	7.35
HLRS 2030-03-060 E				6.21	6.41	6.62	6.85	7.35
HLRS 2030-03-160			16	16.53	17.06	17.63	18.23	19.59
HLRS 2030-03-160 E				16.53	17.06	17.63	18.23	19.59
HLRS 2030-03-260			26	26.84	27.71	28.63	29.62	
HLRS 2030-03-360			36	37.15	38.35	39.64	41.01	
HLRS 2030-05-060		R0.5	6	6.21	6.40	6.61	6.83	7.33
HLRS 2030-05-060 E				6.21	6.40	6.61	6.83	7.33
HLRS 2030-05-160			16	16.52	17.05	17.62	18.22	19.57
HLRS 2030-05-160 E				16.52	17.05	17.62	18.22	19.57
HLRS 2030-05-260			26	26.84	27.70	28.62	29.61	
HLRS 2030-05-360			36	37.15	38.35	39.63	41.00	
HLRS 2030-10-060		R1	6	6.20	6.39	6.59	6.80	7.28
HLRS 2030-10-060 E				6.20	6.39	6.59	6.80	7.28
HLRS 2030-10-160			16	16.51	17.04	17.59	18.19	19.52
HLRS 2030-10-160 E				16.51	17.04	17.59	18.19	19.52
HLRS 2030-10-260			26	26.83	27.68	28.60	29.57	
HLRS 2030-10-360			36	37.14	38.33	39.60	40.96	
HLRS 2040-01-080	4	R0.1	8	8.45	8.73	9.02	9.33	10.03
HLRS 2040-01-080 E				8.45	8.73	9.02	9.33	10.03
HLRS 2040-01-200			20	20.83	21.50	22.23	23.00	
HLRS 2040-01-200 E				20.83	21.50	22.23	23.00	
HLRS 2040-01-320			32	33.21	34.28	35.43		
HLRS 2040-01-480			48	49.71	51.32			
HLRS 2040-02-080		R0.2	8	8.45	8.72	9.01	9.33	10.02
HLRS 2040-02-080 E				8.45	8.72	9.01	9.33	10.02
HLRS 2040-02-200			20	20.83	21.50	22.22	22.99	
HLRS 2040-02-200 E				20.83	21.50	22.22	22.99	
HLRS 2040-02-320			32	33.20	34.28	35.43		
HLRS 2040-02-480			48	49.71	51.32			
HLRS 2040-03-080		R0.3	8	8.45	8.72	9.01	9.32	10.01
HLRS 2040-03-080 E				8.45	8.72	9.01	9.32	10.01
HLRS 2040-03-200			20	20.83	21.50	22.22	22.98	
HLRS 2040-03-200 E				20.83	21.50	22.22	22.98	
HLRS 2040-03-320			32	33.20	34.28	35.42		
HLRS 2040-03-480			48	49.71	51.31			
HLRS 2040-05-080		R0.5	8	8.45	8.71	9.00	9.31	9.99
HLRS 2040-05-080 E				8.45	8.71	9.00	9.31	9.99
HLRS 2040-05-200			20	20.82	21.49	22.21	22.97	
HLRS 2040-05-200 E				20.82	21.49	22.21	22.97	
HLRS 2040-05-320			32	33.20	34.27	35.41		
HLRS 2040-05-480			48	49.70	51.31			

Модель	Рабочий диаметр D	Радиус угла CR	Длина рабочей части l_1	Длина режущей части l	Диаметр шейки ϕ_{d1}	Угол конуса $\beta_{та}$	Общая длина L	Диаметр хвостов. d	Цена				
HLRS 2040-10-080	4	R1	8	4	3.82	16°	65	6					
HLRS 2040-10-080 E			65				6						
HLRS 2040-10-200			20				65	6					
HLRS 2040-10-200 E			65				6						
HLRS 2040-10-320			32				80	6					
HLRS 2040-10-480			48				100	6					
HLRS 2050-02-200	5	R0.2	20	5	4.82	16°	70	6					
HLRS 2050-02-400			40				90	6					
HLRS 2050-03-200		R0.3	20				70	6					
HLRS 2050-03-400			40				90	6					
HLRS 2050-05-200		R0.5	20				70	6					
HLRS 2050-05-400			40				90	6					
HLRS 2050-10-200		R1	20				70	6					
HLRS 2050-10-400			40				90	6					
HLRS 2060-01-120		6	R0.1				12	6	5.82	—	65	6	
HLRS 2060-01-120 E							65				6		
HLRS 2060-01-300	30			100	6								
HLRS 2060-01-300 E	100			6									
HLRS 2060-01-600	60		120	6									
HLRS 2060-02-120	R0.2		12	65	6								
HLRS 2060-02-120 E			65	6									
HLRS 2060-02-300			30	100	6								
HLRS 2060-02-300 E			100	6									
HLRS 2060-02-600			60	120	6								
HLRS 2060-03-120			R0.3	12	65	6							
HLRS 2060-03-120 E	65			6									
HLRS 2060-03-300	30			100	6								
HLRS 2060-03-300 E	100			6									
HLRS 2060-03-600	60		120	6									
HLRS 2060-05-120	R0.5		12	65	6								
HLRS 2060-05-120 E			65	6									
HLRS 2060-05-300			30	100	6								
HLRS 2060-05-300 E			100	6									
HLRS 2060-05-600	60		120	6									
HLRS 2060-10-120	R1		12	65	6								
HLRS 2060-10-120 E			65	6									
HLRS 2060-10-300			30	100	6								
HLRS 2060-10-300 E			100	6									
HLRS 2060-10-600	60	120	6										

Модель	Рабочий диаметр D	Радиус угла CR	Длина раб. части ℓ1	Длина раб. части при различных углах наклона					
				30°	1°	1°30'	2°	3°	
HLRS 2040-10-080	4	R 1	8	8.44	8.70	8.98	9.27	9.93	
HLRS 2040-10-080 E				8.44	8.70	8.98	9.27	9.93	
HLRS 2040-10-200			20	20.82	21.48	22.18	22.94		
HLRS 2040-10-200 E				20.82	21.48	22.18	22.94		
HLRS 2040-10-320				32	33.19	34.25	35.39		
HLRS 2040-10-480				48	49.69	51.29			
HLRS 2050-02-200	5	R 0.2	20	20.83	21.50				
HLRS 2050-02-400			40	41.46					
HLRS 2050-03-200		R 0.3	20	20.83	21.50				
HLRS 2050-03-400			40	41.45					
HLRS 2050-05-200		R 0.5	20	20.82	21.49				
HLRS 2050-05-400			40	41.45					
HLRS 2050-10-200		R 1	20	20.82	21.48				
HLRS 2050-10-400			40	41.44					
HLRS 2060-01-120		6	R 0.1	12					
HLRS 2060-01-120 E				30					
HLRS 2060-01-300					60				
HLRS 2060-01-300 E			R 0.2	12					
HLRS 2060-02-120	30								
HLRS 2060-02-120 E				60					
HLRS 2060-02-300	R 0.3		12						
HLRS 2060-02-300 E			30						
HLRS 2060-02-600				60					
HLRS 2060-03-120	R 0.5		12						
HLRS 2060-03-120 E			30						
HLRS 2060-03-300				60					
HLRS 2060-03-300 E	R 1		12						
HLRS 2060-03-600			30						
HLRS 2060-05-120				60					
HLRS 2060-05-120 E	R 1		12						
HLRS 2060-05-300			30						
HLRS 2060-05-300 E				60					
HLRS 2060-05-600	R 1		12						
HLRS 2060-10-120			30						
HLRS 2060-10-120 E				60					
HLRS 2060-10-300	R 1		12						
HLRS 2060-10-300 E			30						
HLRS 2060-10-600				60					

