

ROLLERI

TOOLING LAB

LASER CONSUMABLES

PUNCHING TOOLS - IRON WORKER

SHEAR BLADES

PANEL BENDING TOOLS

BENDING

R6 TOOLS TYPE
HÄMMERLE-BYSTRONIC





ISO 9001 - ISO 45001
CERTIFIED
COMPANY



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It contains not only a lot of interesting contents but also sheet metal development calculator and bending ruler. Furthermore this free app contains a useful tool to scan the QR codes in this catalogue.



The **Bending handbook** target is to supply practice and useful information to reach quickly the required result. A lot of examples, easy formulas and information which explain the proper attitude towards the bending process.



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Download Rolleri **Clamping App**

Rolleri App contains a lot of useful information about our fast clamping systems, details for their installation and all user manuals.



BENDING TOOLS

R1 TOOLS TYPE

Compatible with press brakes: Accurl, Accurpress, ACL, Adira, Amada, Atlantic, Baykal, BL, Boschert, Boutillon, Bystronic, Beyeler, Euro-B, Coastone, Colgar, Dener, Deratech, Durmazlar, Ermaksan, Farina, Gade, Gasparini, Gecko, Gilardi, Gizelis, Haco, Hindustan, HPM, Iturraspe, Jfy, JMT, LFK, Metfab, MVD, Oriance, Prima Power, Promecam, Rico, Salvagnini, Schiavi, SMD, Sorg, Somo, Vicla, Vimercati, Warcom, Yawei,...

R2-R3 TOOLS TYPE

Compatible with press brakes: Darley, LVD, Safan, Trumpf and press brakes with NSCL system, Bystronic Beyeler RFA, RF, R, S

R4 TOOLS TYPE

Compatible with press brakes: LVD

R5 TOOLS TYPE

Compatible with press brakes: American

R6 TOOLS TYPE

Compatible with press brakes: Hämmerle-Bystronic

R7 TOOLS TYPE

Compatible with press brakes: Colly

R8 TOOLS TYPE

Compatible with press brakes: Colgar

R9 TOOLS TYPE

Compatible with press brakes: Gasparini (axial)

R10 TOOLS TYPE

Compatible with press brakes: Ajial Axial

Rx TOOLS TYPE

Compatible with press brakes: EHT, Ursviken and Weinbrenner

ROLLERI TECH, MODIFICATIONS AND SERVICES

Compatible with all types of press brakes

CLAMPING SYSTEMS, INTERMEDIATES AND ADAPTERS

Compatible with all types of press brakes

ROLLA-V AND SPECIAL DIES

Compatible with all types of press brakes

MARK FREE BENDING AND ACCESSORIES

Compatible with all types of press brakes

PANEL BENDING TOOLS

SHEAR BLADES

PUNCHING TOOLS

R1 TOOLS TYPE

Compatible with punching machines Amada, Amada ABS, Wilson HP, Wilson HP WLS, Mate Ultra Tec

R2 TOOLS TYPE

Compatible with Trumpf punching machines

RS TOOLS TYPE

Compatible with Salvagnini punching machines

SPECIAL TOOLS

Compatible with different types of punching machines

ACCESSORIES

Compatible with different types of punching machines

IRON WORKER

Iron cutting tools

LASER CONSUMABLES

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6

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9 - PUNCHES

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H61.500.03 25
H61.500.04 25
H61.500.05 25
H61.500.06 25
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R6

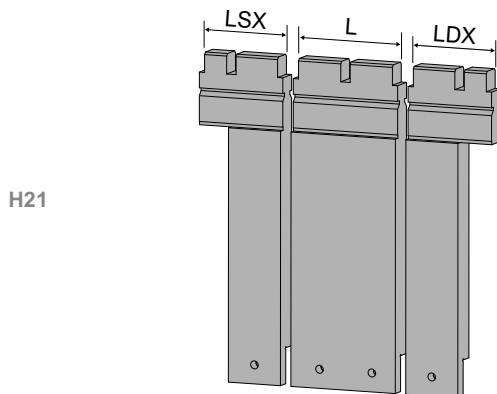
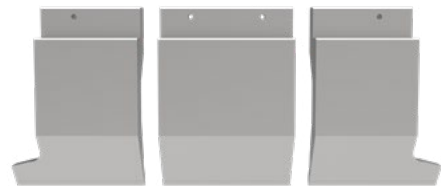
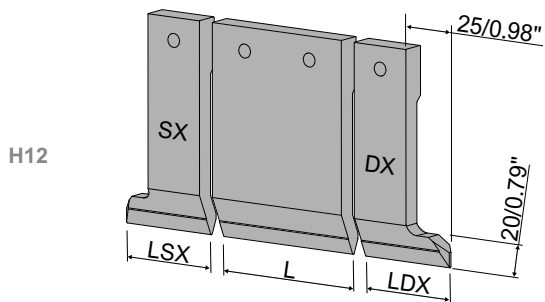
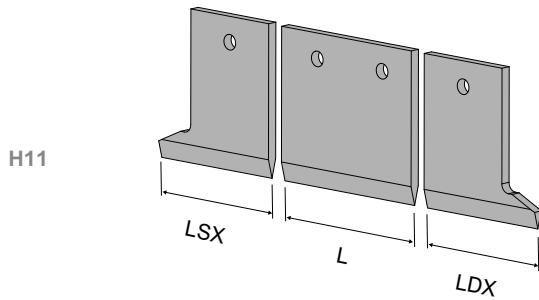
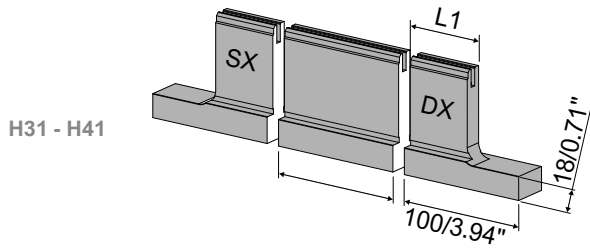
TOOLS

Hämmerle-Bystronic

Our tool codes are listed according to the **tool angle**



STANDARD TANG



Rolleri **BLACKFIRE** is a surface treatment against steel oxidation. After such treatment tools become black and laser marking golden.

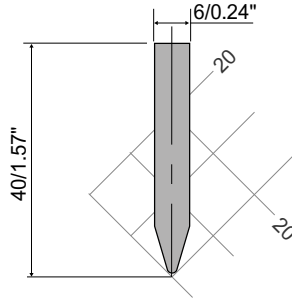


Rolleri **FREEZINC** is a surface treatment to avoid metal residues of galvanized steel or aluminium from remaining on tools during bending. Tools are also protected from oxidation

H11.010.0



	L	R	mm	in	kg
H11.010.01.01			100	3.94	0.17
H11.010.02.01			50	1.97	0.09
H11.010.02.02			55	2.17	0.09
H11.010.02.03			60	2.36	0.10
H11.010.02.04			65	2.56	0.11
H11.010.02.05			70	2.76	0.12
H11.010.02.06			75	2.95	0.13
H11.010.02.07			80	3.15	0.14
H11.010.02.08			85	3.35	0.14
H11.010.02.09			90	3.54	0.15
H11.010.02.10			95	3.74	0.16
H11.010.04.01	•		75	2.95	0.12
H11.010.04.02	•		85	3.35	0.14
H11.010.04.03	•		95	3.74	0.15
H11.010.04.04	•		105	4.13	0.17
H11.010.04.05	•		115	4.53	0.19
H11.010.04.06	•		80	3.15	0.13
H11.010.05.01	•		75	2.95	0.12
H11.010.05.02	•		85	3.35	0.14
H11.010.05.03	•		95	3.74	0.15
H11.010.05.04	•		105	4.13	0.17
H11.010.05.05	•		115	4.53	0.19
H11.010.05.06	•		80	3.15	0.13

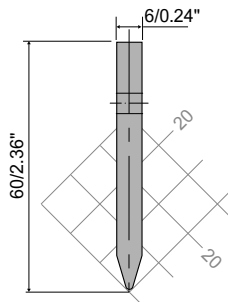


HRc 58-60
600 kN/m max.
30°
H=40 | R=1.0 mm
H=1.57 | R=0.039 in

H11.007.0



	L	R	mm	in	kg
H11.007.01.01			100	3.94	0.26
H11.007.02.01			50	1.97	0.13
H11.007.02.02			55	2.17	0.14
H11.007.02.03			60	2.36	0.16
H11.007.02.04			65	2.56	0.17
H11.007.02.05			70	2.76	0.18
H11.007.02.06			75	2.95	0.20
H11.007.02.07			80	3.15	0.21
H11.007.02.08			85	3.35	0.22
H11.007.02.09			90	3.54	0.23
H11.007.02.10			95	3.74	0.25
H11.007.04.01	•		75	2.95	0.18
H11.007.04.02	•		85	3.35	0.21
H11.007.04.03	•		95	3.74	0.23
H11.007.04.04	•		105	4.13	0.25
H11.007.04.05	•		115	4.53	0.29
H11.007.04.06	•		80	3.15	0.20
H11.007.05.01	•		75	2.95	0.18
H11.007.05.02	•		85	3.35	0.21
H11.007.05.03	•		95	3.74	0.23
H11.007.05.04	•		105	4.13	0.25
H11.007.05.05	•		115	4.53	0.29
H11.007.05.06	•		80	3.15	0.20



HRc 58-60
1000 kN/m max.
30°
H=60 | R=1.0 mm
H=2.36 | R=0.039 in



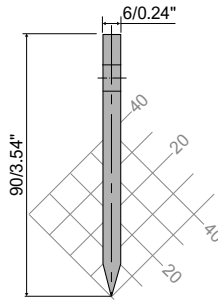
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H11.002.0

	L	R	mm	in	kg
H11.002.01.01			100	3.94	0.40
H11.002.02.01			50	1.97	0.20
H11.002.02.02			55	2.17	0.22
H11.002.02.03			60	2.36	0.24
H11.002.02.04			65	2.56	0.26
H11.002.02.05			70	2.76	0.28
H11.002.02.06			75	2.95	0.30
H11.002.02.07			80	3.15	0.32
H11.002.02.08			85	3.35	0.34
H11.002.02.09			90	3.54	0.36
H11.002.02.10			95	3.74	0.38
H11.002.04.01	•		75	2.95	0.28
H11.002.04.02	•		85	3.35	0.32
H11.002.04.03	•		95	3.74	0.36
H11.002.04.04	•		105	4.13	0.38
H11.002.04.05	•		115	4.53	0.44
H11.002.04.06	•		80	3.15	0.30
H11.002.05.01	•		75	2.95	0.28
H11.002.05.02	•		85	3.35	0.32
H11.002.05.03	•		95	3.74	0.36
H11.002.05.04	•		105	4.13	0.38
H11.002.05.05	•		115	4.53	0.44
H11.002.05.06	•		80	3.15	0.30



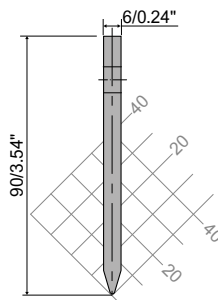
HRc 58-60
1000 kN/m max.

30°
H=90 | R=0.2 mm
H=3.54 | R=0.008 in



H11.001.0

	L	R	mm	in	kg
H11.001.01.01			100	3.94	0.40
H11.001.02.01			50	1.97	0.20
H11.001.02.02			55	2.17	0.22
H11.001.02.03			60	2.36	0.24
H11.001.02.04			65	2.56	0.26
H11.001.02.05			70	2.76	0.28
H11.001.02.06			75	2.95	0.30
H11.001.02.07			80	3.15	0.32
H11.001.02.08			85	3.35	0.34
H11.001.02.09			90	3.54	0.36
H11.001.02.10			95	3.74	0.38
H11.001.04.01	•		75	2.95	0.28
H11.001.04.02	•		85	3.35	0.32
H11.001.04.03	•		95	3.74	0.36
H11.001.04.04	•		105	4.13	0.38
H11.001.04.05	•		115	4.53	0.44
H11.001.04.06	•		80	3.15	0.30
H11.001.05.01	•		75	2.95	0.28
H11.001.05.02	•		85	3.35	0.32
H11.001.05.03	•		95	3.74	0.36
H11.001.05.04	•		105	4.13	0.38
H11.001.05.05	•		115	4.53	0.44
H11.001.05.06	•		80	3.15	0.30



HRc 58-60
1000 kN/m max.

30°
H=90 | R=1.0 mm
H=3.54 | R=0.039 in



Rolleri **BLACKFIRE** is a surface treatment against steel oxidation. After such treatment tools become black and laser marking golden.

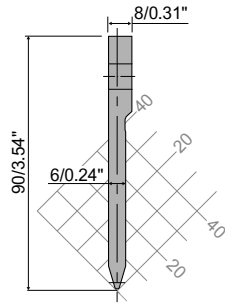


Rolleri **FREEZINC** is a surface treatment to avoid metal residues of galvanized steel or aluminium from remaining on tools during bending. Tools are also protected from oxidation

H11.008.0



	L	R	mm	in	kg
H11.008.01.01			100	3.94	0.44
H11.008.02.01			50	1.97	0.22
H11.008.02.02			55	2.17	0.24
H11.008.02.03			60	2.36	0.26
H11.008.02.04			65	2.56	0.29
H11.008.02.05			70	2.76	0.31
H11.008.02.06			75	2.95	0.33
H11.008.02.07			80	3.15	0.35
H11.008.02.08			85	3.35	0.37
H11.008.02.09			90	3.54	0.40
H11.008.02.10			95	3.74	0.42
H11.008.04.01		•	75	2.95	0.31
H11.008.04.02		•	85	3.35	0.35
H11.008.04.03		•	95	3.74	0.40
H11.008.04.04		•	105	4.13	0.46
H11.008.04.05		•	115	4.53	0.48
H11.008.04.06	•		80	3.15	0.33
H11.008.05.01	•		75	2.95	0.31
H11.008.05.02	•		85	3.35	0.35
H11.008.05.03	•		95	3.74	0.40
H11.008.05.04	•		105	4.13	0.46
H11.008.05.05	•		115	4.53	0.48
H11.008.05.06	•		80	3.15	0.33



HRc 58-60
1000 kN/m max.

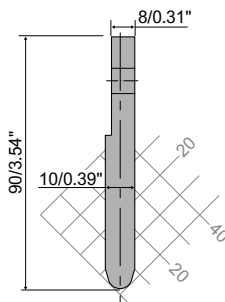
30°
H=90 | R=1.0 mm
H=3.54 | R=0.039 in



H11.034.0



	L	R	mm	in	kg
H11.034.01.01			100	3.94	0.63
H11.034.02.01			50	1.97	0.32
H11.034.02.02			55	2.17	0.35
H11.034.02.03			60	2.36	0.38
H11.034.02.04			65	2.56	0.41
H11.034.02.05			70	2.76	0.44
H11.034.02.06			75	2.95	0.47
H11.034.02.07			80	3.15	0.50
H11.034.02.08			85	3.35	0.54
H11.034.02.09			90	3.54	0.57
H11.034.02.10			95	3.74	0.60
H11.034.04.01		•	75	2.95	0.44
H11.034.04.02		•	85	3.35	0.50
H11.034.04.03		•	95	3.74	0.57
H11.034.04.04		•	105	4.13	0.63
H11.034.04.05		•	115	4.53	0.69
H11.034.04.06	•		80	3.15	0.47
H11.034.05.01	•		75	2.95	0.44
H11.034.05.02	•		85	3.35	0.50
H11.034.05.03	•		95	3.74	0.57
H11.034.05.04	•		105	4.13	0.63
H11.034.05.05	•		115	4.53	0.69
H11.034.05.06	•		80	3.15	0.47



HRc 58-60
1000 kN/m max.

30°
H=90 | R=4.0 mm
H=3.54 | R=0.157 in



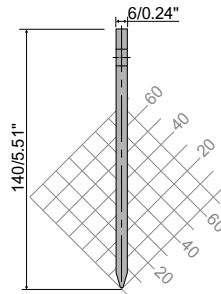
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H11.003.0

	L	R	mm	in	kg
H11.003.01.01			100	3.94	0.63
H11.003.02.01			50	1.97	0.32
H11.003.02.02			55	2.17	0.35
H11.003.02.03			60	2.36	0.38
H11.003.02.04			65	2.56	0.41
H11.003.02.05			70	2.76	0.44
H11.003.02.06			75	2.95	0.47
H11.003.02.07			80	3.15	0.50
H11.003.02.08			85	3.35	0.54
H11.003.02.09			90	3.54	0.57
H11.003.02.10			95	3.74	0.60
H11.003.04.01		•	75	2.95	0.44
H11.003.04.02		•	85	3.35	0.50
H11.003.04.03		•	95	3.74	0.57
H11.003.04.04		•	105	4.13	0.63
H11.003.04.05		•	115	4.53	0.69
H11.003.04.06	•		80	3.15	0.47
H11.003.05.01	•		75	2.95	0.44
H11.003.05.02	•		85	3.35	0.50
H11.003.05.03	•		95	3.74	0.57
H11.003.05.04	•		105	4.13	0.63
H11.003.05.05	•		115	4.53	0.69
H11.003.05.06	•		80	3.15	0.47



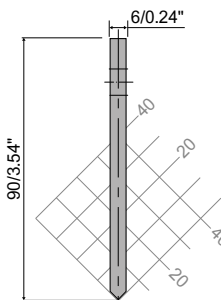
HRc 58-60
1000 kN/m max.

30°
H=140 | R=1.0 mm
H=5.51 | R=0.039 in



H11.005.0

	L	R	mm	in	kg
H11.005.01.01			100	3.94	0.43
H11.005.02.01			50	1.97	0.22
H11.005.02.02			55	2.17	0.24
H11.005.02.03			60	2.36	0.26
H11.005.02.04			65	2.56	0.28
H11.005.02.05			70	2.76	0.30
H11.005.02.06			75	2.95	0.32
H11.005.02.07			80	3.15	0.34
H11.005.02.08			85	3.35	0.37
H11.005.02.09			90	3.54	0.39
H11.005.02.10			95	3.74	0.41
H11.005.04.01		•	75	2.95	0.30
H11.005.04.02		•	85	3.35	0.34
H11.005.04.03		•	95	3.74	0.39
H11.005.04.04		•	105	4.13	0.40
H11.005.04.05		•	115	4.53	0.47
H11.005.04.06	•		80	3.15	0.32
H11.005.05.01	•		75	2.95	0.30
H11.005.05.02	•		85	3.35	0.34
H11.005.05.03	•		95	3.74	0.39
H11.005.05.04	•		105	4.13	0.40
H11.005.05.05	•		115	4.53	0.47
H11.005.05.06	•		80	3.15	0.32



C45: 560-710 N/mm²
1000 kN/m max.

90°
H=90 | R=0.2 mm
H=3.54 | R=0.008 in



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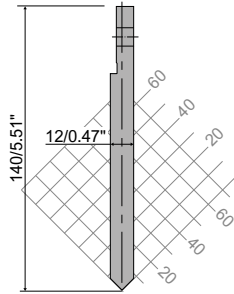


The Bending handbook target is to supply practice and useful information to reach quickly the required result. A lot of examples, easy formulas and information which explain the proper attitude towards the bending process.

H11.009.1



	L	R	mm	in	kg
H11.009.10.01			100	3.94	1.20
H11.009.12.01			50	1.97	0.60
H11.009.12.02			55	2.17	0.66
H11.009.12.03			60	2.36	0.72
H11.009.12.04			65	2.56	0.78
H11.009.12.05			70	2.76	0.84
H11.009.12.06			75	2.95	0.90
H11.009.12.07			80	3.15	0.96
H11.009.12.08			85	3.35	1.02
H11.009.12.09			90	3.54	1.08
H11.009.12.10			95	3.74	1.14
H11.009.14.01	•		75	2.95	0.84
H11.009.14.02	•		85	3.35	0.96
H11.009.14.03	•		95	3.74	1.08
H11.009.14.04	•		105	4.13	1.21
H11.009.14.05	•		115	4.53	1.32
H11.009.14.06	•		80	3.15	0.90
H11.009.15.01	•		75	2.95	0.84
H11.009.15.02	•		85	3.35	0.96
H11.009.15.03	•		95	3.74	1.08
H11.009.15.04	•		105	4.13	1.21
H11.009.15.05	•		115	4.53	1.32
H11.009.15.06	•		80	3.15	0.90



HRc 58-60
1000 kN/m max.

90°
H=140 | R=0.2 mm
H=5.51 | R=0.008 in

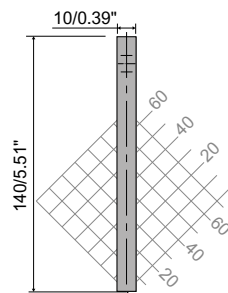
H14.021.0



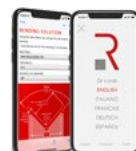
	mm	in	kg
H14.021.01.01	100	3.94	1.09
H14.021.02.01	50	1.97	0.55
H14.021.02.02	55	2.17	0.60
H14.021.02.03	60	2.36	0.65
H14.021.02.04	65	2.56	0.71
H14.021.02.05	70	2.76	0.76
H14.021.02.06	75	2.95	0.82
H14.021.02.07	80	3.15	0.87
H14.021.02.08	85	3.35	0.93
H14.021.02.09	90	3.54	0.98
H14.021.02.10	95	3.74	1.04

HRc 58-60
1000 kN/m max.

H=140 mm
H=5.51 in



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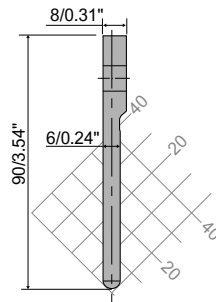


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H11.033.1

	L	R	mm	in	kg
H11.033.11.01			100	3.94	0.46
H11.033.12.01			50	1.97	0.23
H11.033.12.02			55	2.17	0.25
H11.033.12.03			60	2.36	0.28
H11.033.12.04			65	2.56	0.30
H11.033.12.05			70	2.76	0.32
H11.033.12.06			75	2.95	0.35
H11.033.12.07			80	3.15	0.37
H11.033.12.08			85	3.35	0.39
H11.033.12.09			90	3.54	0.41
H11.033.12.10			95	3.74	0.44
H11.033.14.01	•		75	2.95	0.32
H11.033.14.02	•		85	3.35	0.37
H11.033.14.03	•		95	3.74	0.41
H11.033.14.04	•		105	4.13	0.44
H11.033.14.05	•		115	4.53	0.51
H11.033.14.06	•		80	3.15	0.35
H11.033.15.01	•		75	2.95	0.32
H11.033.15.02	•		85	3.35	0.37
H11.033.15.03	•		95	3.74	0.41
H11.033.15.04	•		105	4.13	0.44
H11.033.15.05	•		115	4.53	0.51
H11.033.15.06	•		80	3.15	0.35



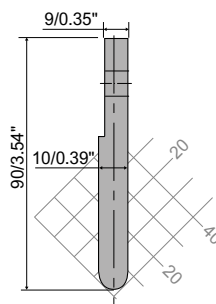
HRc 58-60
1000 kN/m max.

H=90 | R=3.0 mm
H=3.54 | R=0.118 in



H11.035.0

	L	R	mm	in	kg
H11.035.01.01			100	3.94	0.63
H11.035.02.01			50	1.97	0.32
H11.035.02.02			55	2.17	0.35
H11.035.02.03			60	2.36	0.38
H11.035.02.04			65	2.56	0.41
H11.035.02.05			70	2.76	0.44
H11.035.02.06			75	2.95	0.47
H11.035.02.07			80	3.15	0.50
H11.035.02.08			85	3.35	0.54
H11.035.02.09			90	3.54	0.57
H11.035.02.10			95	3.74	0.60
H11.035.04.01	•		75	2.95	0.44
H11.035.04.02	•		85	3.35	0.50
H11.035.04.03	•		95	3.74	0.57
H11.035.04.04	•		105	4.13	0.63
H11.035.04.05	•		115	4.53	0.69
H11.035.04.06	•		80	3.15	0.47
H11.035.05.01	•		75	2.95	0.44
H11.035.05.02	•		85	3.35	0.50
H11.035.05.03	•		95	3.74	0.57
H11.035.05.04	•		105	4.13	0.63
H11.035.05.05	•		115	4.53	0.69
H11.035.05.06	•		80	3.15	0.47



HRc 58-60
1000 kN/m max.

H=90 | R=5.0 mm
H=3.54 | R=0.197 in



Rolleri **BLACKFIRE** is a surface treatment against steel oxidation. After such treatment tools become black and laser marking golden.

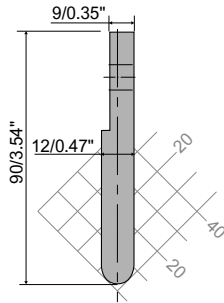


Rolleri **FREEZINC** is a surface treatment to avoid metal residues of galvanized steel or aluminium from remaining on tools during bending. Tools are also protected from oxidation.

H11.036.0



	L	R	mm	in	kg
H11.036.01.01			100	3.94	0.74
H11.036.02.01			50	1.97	0.37
H11.036.02.02			55	2.17	0.41
H11.036.02.03			60	2.36	0.44
H11.036.02.04			65	2.56	0.48
H11.036.02.05			70	2.76	0.52
H11.036.02.06			75	2.95	0.56
H11.036.02.07			80	3.15	0.59
H11.036.02.08			85	3.35	0.63
H11.036.02.09			90	3.54	0.67
H11.036.02.10			95	3.74	0.70
H11.036.04.01	•		75	2.95	0.52
H11.036.04.02	•		85	3.35	0.59
H11.036.04.03	•		95	3.74	0.67
H11.036.04.04	•		105	4.13	0.74
H11.036.04.05	•		115	4.53	0.81
H11.036.04.06	•		80	3.15	0.56
H11.036.05.01	•		75	2.95	0.52
H11.036.05.02	•		85	3.35	0.59
H11.036.05.03	•		95	3.74	0.67
H11.036.05.04	•		105	4.13	0.74
H11.036.05.05	•		115	4.53	0.81
H11.036.05.06	•		80	3.15	0.56

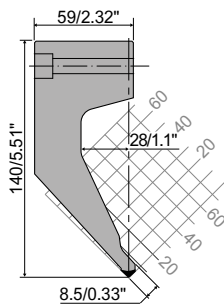


HRC 58-60
1000 kN/m max.
H=90 | R=6.0 mm
H=3.54 | R=0.24 in

H12.014.0



	L	R	mm	in	kg
H12.014.01.01			100	3.94	3.36
H12.014.02.01			50	1.97	1.68
H12.014.02.02			55	2.17	1.85
H12.014.02.03			60	2.36	2.02
H12.014.02.04			65	2.56	2.18
H12.014.02.05			70	2.76	2.35
H12.014.02.06			75	2.95	2.52
H12.014.02.07			80	3.15	2.69
H12.014.02.08			85	3.35	2.86
H12.014.02.09			90	3.54	3.02
H12.014.02.10			95	3.74	3.19
H12.014.04.01	•		75	2.95	2.35
H12.014.04.02	•		85	3.35	2.69
H12.014.04.03	•		95	3.74	3.02
H12.014.04.04	•		105	4.13	3.03
H12.014.04.05	•		115	4.53	3.70
H12.014.04.06	•		80	3.15	2.52
H12.014.05.01	•		75	2.95	2.35
H12.014.05.02	•		85	3.35	2.69
H12.014.05.03	•		95	3.74	3.02
H12.014.05.04	•		105	4.13	3.03
H12.014.05.05	•		115	4.53	3.70
H12.014.05.06	•		80	3.15	2.52



42Cr: 900-1150 N/mm²
975 kN/m max.
H=140 | R=1.0 mm
H=5.51 | R=0.039 in



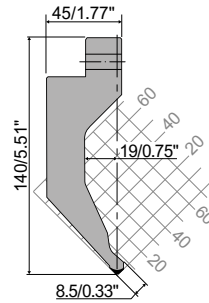
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H12.052.0

	S	D	mm	in	kg
H12.052.01.01			100	3.94	2.63
H12.052.02.01			50	1.97	1.32
H12.052.02.02			55	2.17	1.45
H12.052.02.03			60	2.36	1.58
H12.052.02.04			65	2.56	1.71
H12.052.02.05			70	2.76	1.84
H12.052.02.06			75	2.95	1.97
H12.052.02.07			80	3.15	2.10
H12.052.02.08			85	3.35	2.24
H12.052.02.09			90	3.54	2.37
H12.052.02.10			95	3.74	2.50
H12.052.04.01	•		75	2.95	1.84
H12.052.04.02	•		85	3.35	2.10
H12.052.04.03	•		95	3.74	2.37
H12.052.04.04	•		105	4.13	2.50
H12.052.04.05	•		115	4.53	2.89
H12.052.04.06	•		80	3.15	1.97
H12.052.05.01	•		75	2.95	1.84
H12.052.05.02	•		85	3.35	2.10
H12.052.05.03	•		95	3.74	2.37
H12.052.05.04	•		105	4.13	2.50
H12.052.05.05	•		115	4.53	2.89
H12.052.05.06	•		80	3.15	1.97

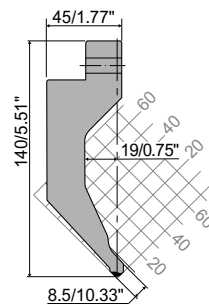


42Cr: 900-1150 N/mm²
975 kN/m max.

H=140 | R=2.0 mm
H=5.51 | R=0.079 in

H12.053.0

	S	D	mm	in	kg
H12.053.01.01			100	3.94	2.65
H12.053.02.01			50	1.97	1.33
H12.053.02.02			55	2.17	1.46
H12.053.02.03			60	2.36	1.59
H12.053.02.04			65	2.56	1.72
H12.053.02.05			70	2.76	1.86
H12.053.02.06			75	2.95	1.99
H12.053.02.07			80	3.15	2.12
H12.053.02.08			85	3.35	2.25
H12.053.02.09			90	3.54	2.39
H12.053.02.10			95	3.74	2.52
H12.053.04.01	•		75	2.95	1.86
H12.053.04.02	•		85	3.35	2.12
H12.053.04.03	•		95	3.74	2.39
H12.053.04.04	•		105	4.13	2.60
H12.053.04.05	•		115	4.53	2.92
H12.053.04.06	•		80	3.15	1.99
H12.053.05.01	•		75	2.95	1.86
H12.053.05.02	•		85	3.35	2.12
H12.053.05.03	•		95	3.74	2.39
H12.053.05.04	•		105	4.13	2.60
H12.053.05.05	•		115	4.53	2.92
H12.053.05.06	•		80	3.15	1.99



42Cr: 900-1150 N/mm²
975 kN/m max.

H=140 | R=3.0 mm
H=5.51 | R=0.118 in



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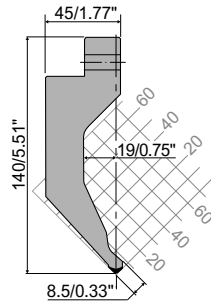


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H12.019.0



	S	D	mm	in	kg
H12.019.01.01			100	3.94	2.60
H12.019.02.01			50	1.97	1.30
H12.019.02.02			55	2.17	1.43
H12.019.02.03			60	2.36	1.56
H12.019.02.04			65	2.56	1.69
H12.019.02.05			70	2.76	1.82
H12.019.02.06			75	2.95	1.95
H12.019.02.07			80	3.15	2.08
H12.019.02.08			85	3.35	2.21
H12.019.02.09			90	3.54	2.34
H12.019.02.10			95	3.74	2.47
H12.019.04.01	•		75	2.95	1.82
H12.019.04.02	•		85	3.35	2.08
H12.019.04.03	•		95	3.74	2.34
H12.019.04.04	•		105	4.13	2.46
H12.019.04.05	•		115	4.53	2.86
H12.019.04.06	•		80	3.15	1.95
H12.019.05.01	•		75	2.95	1.82
H12.019.05.02	•		85	3.35	2.08
H12.019.05.03	•		95	3.74	2.34
H12.019.05.04	•		105	4.13	2.46
H12.019.05.05	•		115	4.53	2.86
H12.019.05.06	•		80	3.15	1.95



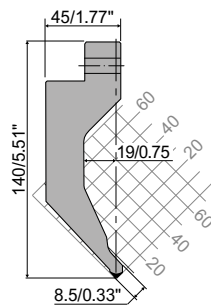
42Cr: 900-1150 N/mm²
975 kN/m max.

H=140 | R=0.2 mm
H=5.51 | R=0.008 in

H12.015.0



	S	D	mm	in	kg
H12.015.01.01			100	3.94	2.63
H12.015.02.01			50	1.97	1.32
H12.015.02.02			55	2.17	1.45
H12.015.02.03			60	2.36	1.58
H12.015.02.04			65	2.56	1.71
H12.015.02.05			70	2.76	1.84
H12.015.02.06			75	2.95	1.97
H12.015.02.07			80	3.15	2.10
H12.015.02.08			85	3.35	2.24
H12.015.02.09			90	3.54	2.37
H12.015.02.10			95	3.74	2.50
H12.015.04.01	•		75	2.95	1.84
H12.015.04.02	•		85	3.35	2.10
H12.015.04.03	•		95	3.74	2.37
H12.015.04.04	•		105	4.13	2.30
H12.015.04.05	•		115	4.53	2.89
H12.015.04.06	•		80	3.15	1.97
H12.015.05.01	•		75	2.95	1.84
H12.015.05.02	•		85	3.35	2.10
H12.015.05.03	•		95	3.74	2.37
H12.015.05.04	•		105	4.13	2.30
H12.015.05.05	•		115	4.53	2.89
H12.015.05.06	•		80	3.15	1.97

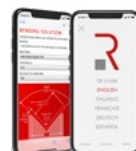


42Cr: 900-1150 N/mm²
975 kN/m max.

85°
H=140 | R=1.0 mm
H=5.51 | R=0.039 in



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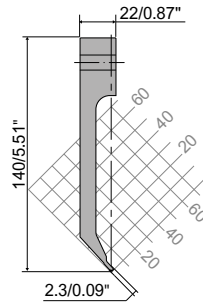


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H12.025.0

	S	D	mm	in	kg
H12.025.01.01			100	3.94	1.36
H12.025.02.01			50	1.97	0.68
H12.025.02.02			55	2.17	0.75
H12.025.02.03			60	2.36	0.82
H12.025.02.04			65	2.56	0.88
H12.025.02.05			70	2.76	0.95
H12.025.02.06			75	2.95	1.02
H12.025.02.07			80	3.15	1.09
H12.025.02.08			85	3.35	1.16
H12.025.02.09			90	3.54	1.22
H12.025.02.10			95	3.74	1.29
H12.025.04.01	•		75	2.95	0.95
H12.025.04.02	•		85	3.35	1.09
H12.025.04.03	•		95	3.74	1.22
H12.025.04.04	•		105	4.13	1.35
H12.025.04.05	•		115	4.53	1.50
H12.025.04.06	•		80	3.15	1.02
H12.025.05.01	•		75	2.95	0.95
H12.025.05.02	•		85	3.35	1.09
H12.025.05.03	•		95	3.74	1.22
H12.025.05.04	•		105	4.13	1.35
H12.025.05.05	•		115	4.53	1.50
H12.025.05.06	•		80	3.15	1.02



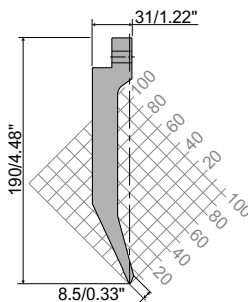
42Cr: 900-1150 N/mm²
250 kN/m max.

85°
H=140 | R=1.0 mm
H=5.51 | R=0.039 in



H12.017.0

	S	D	mm	in	kg
H12.017.01.01			100	3.94	2.76
H12.017.02.01			50	1.97	1.38
H12.017.02.02			55	2.17	1.52
H12.017.02.03			60	2.36	1.66
H12.017.02.04			65	2.56	1.79
H12.017.02.05			70	2.76	1.93
H12.017.02.06			75	2.95	2.07
H12.017.02.07			80	3.15	2.21
H12.017.02.08			85	3.35	2.35
H12.017.02.09			90	3.54	2.48
H12.017.02.10			95	3.74	2.62
H12.017.04.01	•		75	2.95	1.93
H12.017.04.02	•		85	3.35	2.21
H12.017.04.03	•		95	3.74	2.48
H12.017.04.04	•		105	4.13	3.03
H12.017.04.05	•		115	4.53	3.04
H12.017.04.06	•		80	3.15	2.07
H12.017.05.01	•		75	2.95	1.93
H12.017.05.02	•		85	3.35	2.21
H12.017.05.03	•		95	3.74	2.48
H12.017.05.04	•		105	4.13	3.03
H12.017.05.05	•		115	4.53	3.04
H12.017.05.06	•		80	3.15	2.07



42Cr: 900-1150 N/mm²
750 kN/m max.

55°
H=190 mm
H=7.48 in



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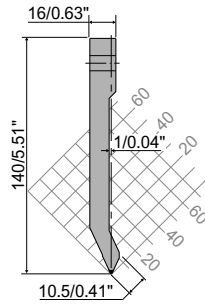


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H12.065.0



S	D	mm	in	kg
H12.065.01.01		100	3.94	1.36
H12.065.02.01		50	1.97	0.68
H12.065.02.02		55	2.17	0.75
H12.065.02.03		60	2.36	0.82
H12.065.02.04		65	2.56	0.88
H12.065.02.05		70	2.76	0.95
H12.065.02.06		75	2.95	1.02
H12.065.02.07		80	3.15	1.09
H12.065.02.08		85	3.35	1.16
H12.065.02.09		90	3.54	1.22
H12.065.02.10		95	3.74	1.29
H12.065.04.01	•	75	2.95	0.95
H12.065.04.02	•	85	3.35	1.09
H12.065.04.03	•	95	3.74	1.22
H12.065.04.04	•	105	4.13	1.35
H12.065.04.05	•	115	4.53	1.50
H12.065.04.06	•	80	3.15	1.02
H12.065.05.01	•	75	2.95	0.95
H12.065.05.02	•	85	3.35	1.09
H12.065.05.03	•	95	3.74	1.22
H12.065.05.04	•	105	4.13	1.35
H12.065.05.05	•	115	4.53	1.50
H12.065.05.06	•	80	3.15	1.02



42Cr: 900-1150 N/mm²
1000 kN/m max.

50°
H=140 | R=1.0 mm
H=5.51 | R=0.039 in



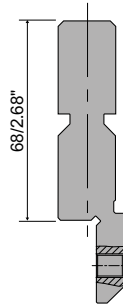
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H21.003.0

	L	R	mm	in	kg
H21.003.01.01			100	3.94	1.18
H21.003.01.03			200	7.87	2.36
H21.003.02.01			50	1.97	0.59
H21.003.02.02			55	2.17	0.65
H21.003.02.03			60	2.36	0.71
H21.003.02.04			65	2.56	0.77
H21.003.02.05			70	2.76	0.83
H21.003.02.06			75	2.95	0.89
H21.003.02.07			80	3.15	0.94
H21.003.02.08			85	3.35	1.00
H21.003.02.09			90	3.54	1.06
H21.003.02.10			95	3.74	1.12
H21.003.04.01		•	75	2.95	0.83
H21.003.04.02		•	85	3.35	0.94
H21.003.04.03		•	95	3.74	1.06
H21.003.04.04		•	105	4.13	1.15
H21.003.04.05		•	115	4.53	1.30
H21.003.04.06	•		80	3.15	0.89
H21.003.05.01	•		75	2.95	0.83
H21.003.05.02	•		85	3.35	0.94
H21.003.05.03	•		95	3.74	1.06
H21.003.05.04	•		105	4.13	1.12
H21.003.05.05	•		115	4.53	1.30
H21.003.05.06	•		80	3.15	0.89

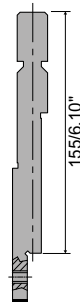


C45: 560-710 N/mm²
1000 kN/m max.

H=68 mm
H=2.68 in

H21.002.0

	L	R	mm	in	kg
H21.002.01.01			100	3.94	1.18
H21.002.01.03			200	7.87	2.36
H21.002.02.01			50	1.97	0.59
H21.002.02.02			55	2.17	0.65
H21.002.02.03			60	2.36	0.71
H21.002.02.04			65	2.56	0.77
H21.002.02.05			70	2.76	0.83
H21.002.02.06			75	2.95	0.89
H21.002.02.07			80	3.15	0.94
H21.002.02.08			85	3.35	1.00
H21.002.02.09			90	3.54	1.06
H21.002.02.10			95	3.74	1.12
H21.002.04.01		•	75	2.95	0.83
H21.002.04.02		•	85	3.35	0.94
H21.002.04.03		•	95	3.74	1.06
H21.002.04.04		•	105	4.13	1.15
H21.002.04.05		•	115	4.53	1.30
H21.002.04.06	•		80	3.15	0.89
H21.002.05.01	•		75	2.95	0.83
H21.002.05.02	•		85	3.35	0.94
H21.002.05.03	•		95	3.74	1.06
H21.002.05.04	•		105	4.13	1.12
H21.002.05.05	•		115	4.53	1.30
H21.002.05.06	•		80	3.15	0.89



C45: 560-710 N/mm²
1000 kN/m max.

H=155 mm
H=6.10 in



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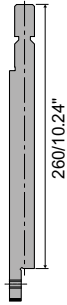


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H21.005.0

	L	R	mm	in	kg
H21.005.01.01			100	3.94	5.06
H21.005.01.03			200	7.87	10.1
H21.005.02.01			50	1.97	2.53
H21.005.02.02			55	2.17	2.78
H21.005.02.03			60	2.36	3.04
H21.005.02.04			65	2.56	3.29
H21.005.02.05			70	2.76	3.54
H21.005.02.06			75	2.95	3.80
H21.005.02.07			80	3.15	4.05
H21.005.02.08			85	3.35	4.30
H21.005.02.09			90	3.54	4.55
H21.005.02.10			95	3.74	4.81
H21.005.04.01		•	75	2.95	3.54
H21.005.04.02		•	85	3.35	4.05
H21.005.04.03		•	95	3.74	4.55
H21.005.04.04		•	105	4.13	5.00
H21.005.04.05		•	115	4.53	5.57
H21.005.04.06	•		80	3.15	3.80
H21.005.05.01	•		75	2.95	3.54
H21.005.05.02	•		85	3.35	4.05
H21.005.05.03	•		95	3.74	4.55
H21.005.05.04	•		105	4.13	5.00
H21.005.05.05	•		115	4.53	5.57
H21.005.05.06	•		80	3.15	3.80



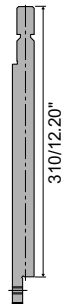
C45: 560-710 N/mm²
1000 kN/m max.

H=260 mm
H=10.24 in



H21.010.0

	L	R	mm	in	kg
H21.010.01.01			100	3.94	6.04
H21.010.01.03			200	7.87	12.0
H21.010.02.01			50	1.97	3.0
H21.010.02.02			55	2.17	3.32
H21.010.02.03			60	2.36	3.60
H21.010.02.04			65	2.56	3.93
H21.010.02.05			70	2.76	4.23
H21.010.02.06			75	2.95	4.53
H21.010.02.07			80	3.15	4.83
H21.010.02.08			85	3.35	5.13
H21.010.02.09			90	3.54	5.44
H21.010.02.10			95	3.74	5.74
H21.010.04.01		•	75	2.95	4.23
H21.010.04.02		•	85	3.35	4.83
H21.010.04.03		•	95	3.74	5.44
H21.010.04.04		•	105	4.13	6.10
H21.010.04.05		•	115	4.53	6.64
H21.010.04.06	•		80	3.15	4.53
H21.010.05.01	•		75	2.95	4.23
H21.010.05.02	•		85	3.35	4.83
H21.010.05.03	•		95	3.74	5.44
H21.010.05.04	•		105	4.13	6.10
H21.010.05.05	•		115	4.53	6.64
H21.010.05.06	•		80	3.15	4.53



C45: 560-710 N/mm²
1000 kN/m max.

H=310 mm
H=12.20 in



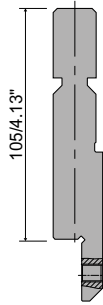
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H21.004.0

	L	R	mm	in	kg
H21.004.01.01			100	3.94	1.82
H21.004.01.03			200	7.87	3.64
H21.004.02.01			50	1.97	0.91
H21.004.02.02			55	2.17	1.00
H21.004.02.03			60	2.36	1.09
H21.004.02.04			65	2.56	1.18
H21.004.02.05			70	2.76	1.27
H21.004.02.06			75	2.95	1.37
H21.004.02.07			80	3.15	1.46
H21.004.02.08			85	3.35	1.55
H21.004.02.09			90	3.54	1.64
H21.004.02.10			95	3.74	1.73
H21.004.04.01	•		75	2.95	1.27
H21.004.04.02	•		85	3.35	1.46
H21.004.04.03	•		95	3.74	1.64
H21.004.04.04	•		105	4.13	1.80
H21.004.04.05	•		115	4.53	2.00
H21.004.04.06	•		80	3.15	1.37
H21.004.05.01	•		75	2.95	1.27
H21.004.05.02	•		85	3.35	1.46
H21.004.05.03	•		95	3.74	1.64
H21.004.05.04	•		105	4.13	1.80
H21.004.05.05	•		115	4.53	2.00
H21.004.05.06	•		80	3.15	1.37

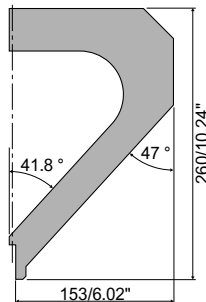


C45: 560-710 N/mm²
1000 kN/m max.

H=105 mm
H=4.13 in

H22.006.0

	mm	in	kg
H22.006.01.01	100	3.94	10.3
H22.006.02.01	50	1.97	5.15
H22.006.02.02	55	2.17	5.67
H22.006.02.03	60	2.36	6.18
H22.006.02.04	65	2.56	6.70
H22.006.02.05	70	2.76	7.21
H22.006.02.06	75	2.95	7.73
H22.006.02.07	80	3.15	8.24
H22.006.02.08	85	3.35	8.76
H22.006.02.09	90	3.54	9.27
H22.006.02.10	95	3.74	9.79

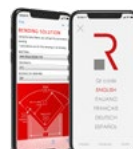


C45: 560-710 N/mm²
600 kN/m max.

H=260 mm
H=10.24 in



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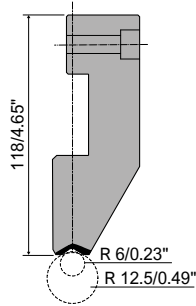
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H22.013.0



	mm	in	kg
H22.013.01.01	100	3.94	10.3
H22.013.02.01	50	1.97	5.15
H22.013.02.02	55	2.17	5.67
H22.013.02.03	60	2.36	6.18
H22.013.02.04	65	2.56	6.70
H22.013.02.05	70	2.76	7.21
H22.013.02.06	75	2.95	7.73
H22.013.02.07	80	3.15	8.24
H22.013.02.08	85	3.35	8.76
H22.013.02.09	90	3.54	9.27
H22.013.02.10	95	3.74	9.79



C45: 560-710 N/mm²
1000 kN/m max.

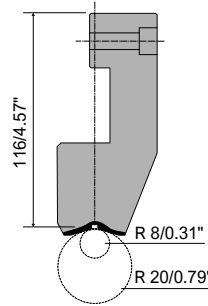
H=118 mm
H=4.65 in



H22.014.0



	mm	in	kg
H22.014.01.01	100	3.94	3.06
H22.014.02.01	50	1.97	1.53
H22.014.02.02	55	2.17	1.68
H22.014.02.03	60	2.36	1.83
H22.014.02.04	65	2.56	1.98
H22.014.02.05	70	2.76	2.14
H22.014.02.06	75	2.95	2.29
H22.014.02.07	80	3.15	2.44
H22.014.02.08	85	3.35	2.59
H22.014.02.09	90	3.54	2.75
H22.014.02.10	95	3.74	2.90



C45: 560-710 N/mm²
1000 kN/m max.

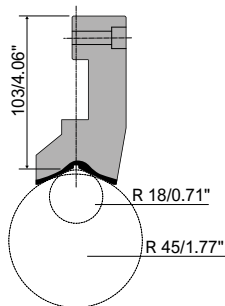
H=116 mm
H=4.57 in



H22.015.0



	mm	in	kg
H22.015.01.01	100	3.94	3.28
H22.015.02.01	50	1.97	1.64
H22.015.02.02	55	2.17	1.80
H22.015.02.03	60	2.36	1.97
H22.015.02.04	65	2.56	2.13
H22.015.02.05	70	2.76	2.30
H22.015.02.06	75	2.95	2.46
H22.015.02.07	80	3.15	2.62
H22.015.02.08	85	3.35	2.79
H22.015.02.09	90	3.54	2.95
H22.015.02.10	95	3.74	3.12



C45: 560-710 N/mm²
1000 kN/m max.

H=103 mm
H=4.06 in



A holder can mount several radius tools. Such system has been designed to guarantee flexibility, as you can choose among a wide range of standard radius tools. The same system can be used for special tools like U, omega etc...



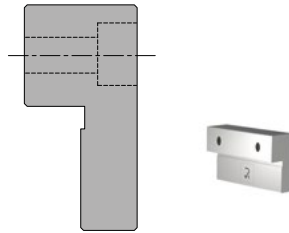
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H61.100.01 / H61.500.01

	mm	in	kg
H61.100.01	100	3.94	0.63
H61.500.01	500	19.68	3.15



C45: 560-710 N/mm²
1000 kN/m max.

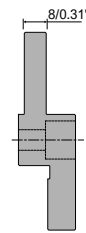


H61.100.02 / H61.500.02

	mm	in	kg
H61.100.02	100	3.94	0.70
H61.500.02	500	19.68	3.50



C45: 560-710 N/mm²
1000 kN/m max.

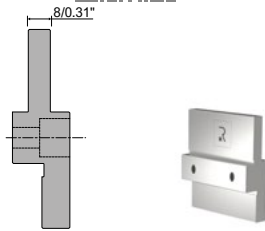


H61.100.03 / H61.500.03

	mm	in	kg
H61.100.03	100	3.94	0.70
H61.500.03	500	19.68	3.50



C45: 560-710 N/mm²
1000 kN/m max.

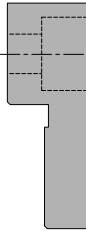


H61.100.04 / H61.500.04

	mm	in	kg
H61.100.04	100	3.94	0.70
H61.500.04	500	19.68	3.50



C45: 560-710 N/mm²
600 kN/m max.

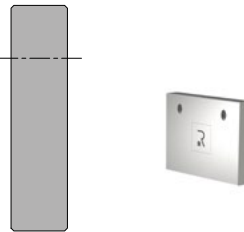


H61.100.05 / H61.500.05

	mm	in	kg
H61.100.05	100	3.94	0.30
H61.500.05	500	19.68	1.50



C45: 560-710 N/mm²
1000 kN/m max.

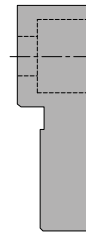


H61.100.06 / H61.500.06

	mm	in	kg
H61.100.06	100	3.94	0.63
H61.500.06	500	19.68	3.15



C45: 560-710 N/mm²
975 kN/m max.

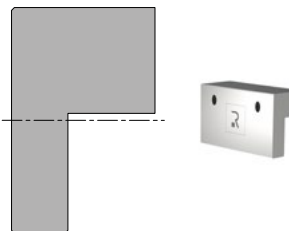


H61.100.07

	mm	in	kg
H61.100.07	100	3.94	0.65



C45: 560-710 N/mm²
975 kN/m max.

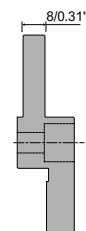


H61.100.08 / H61.500.08

	mm	in	kg
H61.100.08	100	3.94	0.70
H61.500.08	500	19.68	3.50



C45: 560-710 N/mm²
975 kN/m max.



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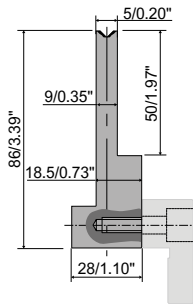


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H41.005.0



	L	R	mm	in	kg
H41.005.01.01			100	3.94	0.94
H41.005.02.01	●		50	1.97	0.71
H41.005.02.02		●	55	2.17	0.71
H41.005.02.03		●	60	2.36	0.75
H41.005.02.04		●	65	2.56	0.75
H41.005.02.05		●	70	2.76	0.75
H41.005.02.06		●	75	2.95	0.85
H41.005.02.07		●	80	3.15	0.85
H41.005.02.08		●	85	3.35	0.85
H41.005.02.09		●	90	3.54	0.94
H41.005.02.10		●	95	3.47	0.94
H41.005.03.01		●	50	1.97	0.71
H41.005.03.02	●		55	2.17	0.71
H41.005.03.03	●		60	2.36	0.75
H41.005.03.04	●		65	2.56	0.75
H41.005.03.05	●		70	2.76	0.75
H41.005.03.06	●		75	2.95	0.85
H41.005.03.07	●		80	3.15	0.85
H41.005.03.08	●		85	3.35	0.85
H41.005.03.09	●		90	3.54	0.94
H41.005.03.10	●		95	3.47	0.94



42Cr: 900-1150 N/mm²
1000 kN/m max.

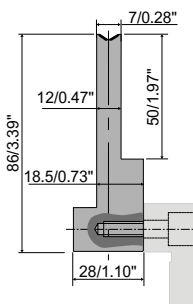
90°

H=86 | V=5 mm
H=3.39 | V=0.20 in

H41.007.0



	L	R	mm	in	kg
H41.007.01.01			100	3.94	1.12
H41.007.02.01	●		50	1.97	0.84
H41.007.02.02		●	55	2.17	0.84
H41.007.02.03		●	60	2.36	0.9
H41.007.02.04		●	65	2.56	0.9
H41.007.02.05		●	70	2.76	0.9
H41.007.02.06		●	75	2.95	1.01
H41.007.02.07		●	80	3.15	1.01
H41.007.02.08		●	85	3.35	1.01
H41.007.02.09		●	90	3.54	1.12
H41.007.02.10		●	95	3.47	1.12
H41.007.03.01		●	50	1.97	0.84
H41.007.03.02	●		55	2.17	0.84
H41.007.03.03	●		60	2.36	0.9
H41.007.03.04	●		65	2.56	0.9
H41.007.03.05	●		70	2.76	0.9
H41.007.03.06	●		75	2.95	1.01
H41.007.03.07	●		80	3.15	1.01
H41.007.03.08	●		85	3.35	1.01
H41.007.03.09	●		90	3.54	1.12
H41.007.03.10	●		95	3.47	1.12



42Cr: 900-1150 N/mm²
1000 kN/m max.

90°

H=86 | V=7 mm
H=3.39 | V=0.28 in



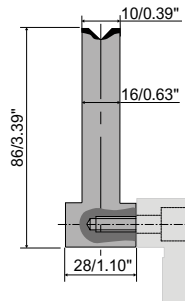
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H41.010.0

	L	R	mm	in	kg
H41.010.01.01			100	3.94	1.22
H41.010.02.01	●		50	1.97	0.92
H41.010.02.02		●	55	2.17	0.92
H41.010.02.03		●	60	2.36	0.98
H41.010.02.04		●	65	2.56	0.98
H41.010.02.05		●	70	2.76	0.98
H41.010.02.06		●	75	2.95	1.10
H41.010.02.07		●	80	3.15	1.10
H41.010.02.08		●	85	3.35	1.10
H41.010.02.09		●	90	3.54	1.22
H41.010.02.10		●	95	3.47	1.22
H41.010.03.01		●	50	1.97	0.92
H41.010.03.02	●		55	2.17	0.92
H41.010.03.03	●		60	2.36	0.98
H41.010.03.04	●		65	2.56	0.98
H41.010.03.05	●		70	2.76	0.98
H41.010.03.06	●		75	2.95	1.10
H41.010.03.07	●		80	3.15	1.10
H41.010.03.08	●		85	3.35	1.10
H41.010.03.09	●		90	3.54	1.22
H41.010.03.10	●		95	3.47	1.22



42Cr: 900-1150 N/mm²
1000 kN/m max.

90°

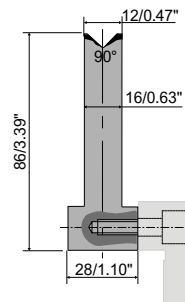
H=86 | V=10 mm

H=3.39 | V=0.39 in



H41.012.0

	L	R	mm	in	kg
H41.012.01.01			100	3.94	1.20
H41.012.02.01	●		50	1.97	0.90
H41.012.02.02		●	55	2.17	0.90
H41.012.02.03		●	60	2.36	0.96
H41.012.02.04		●	65	2.56	0.96
H41.012.02.05		●	70	2.76	0.96
H41.012.02.06		●	75	2.95	1.08
H41.012.02.07		●	80	3.15	1.08
H41.012.02.08		●	85	3.35	1.08
H41.012.02.09		●	90	3.54	1.20
H41.012.02.10		●	95	3.47	1.20
H41.012.03.01		●	50	1.97	0.90
H41.012.03.02	●		55	2.17	0.90
H41.012.03.03	●		60	2.36	0.96
H41.012.03.04	●		65	2.56	0.96
H41.012.03.05	●		70	2.76	0.96
H41.012.03.06	●		75	2.95	1.08
H41.012.03.07	●		80	3.15	1.08
H41.012.03.08	●		85	3.35	1.08
H41.012.03.09	●		90	3.54	1.20
H41.012.03.10	●		95	3.47	1.20



42Cr: 900-1150 N/mm²
1000 kN/m max.

90°

H=86 | V=12 mm

H=3.39 | V=0.47 in



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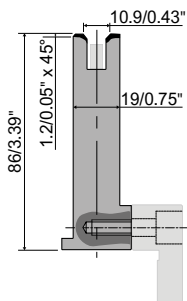
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H31.010.2



	L	R	mm	in	kg
H31.010.21.01			100	3.94	1.07
H31.010.22.01	●		50	1.97	0.80
H31.010.22.02		●	55	2.17	0.80
H31.010.22.03		●	60	2.36	0.86
H31.010.22.04		●	65	2.56	0.86
H31.010.22.05		●	70	2.76	0.86
H31.010.22.06		●	75	2.95	0.96
H31.010.22.07		●	80	3.15	0.96
H31.010.22.08		●	85	3.35	0.96
H31.010.22.09		●	90	3.54	1.07
H31.010.22.10		●	95	3.47	1.07
H31.010.23.01		●	50	1.97	0.80
H31.010.23.02	●		55	2.17	0.80
H31.010.23.03	●		60	2.36	0.86
H31.010.23.04	●		65	2.56	0.86
H31.010.23.05	●		70	2.76	0.86
H31.010.23.06	●		75	2.95	0.96
H31.010.23.07	●		80	3.15	0.96
H31.010.23.08	●		85	3.35	0.96
H31.010.23.09	●		90	3.54	1.07
H31.010.23.10	●		95	3.47	1.07



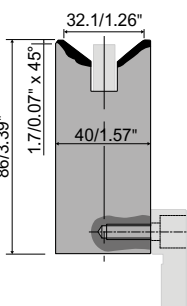
42Cr: 900-1150 N/mm²
550 kN/m max.

H=86 | R=1.0 mm
H=3.39 | R=0.039 in

H31.032.1



	L	R	mm	in	kg
H31.032.11.01			100	3.94	2.17
H31.032.12.01	●		50	1.97	1.63
H31.032.12.02		●	55	2.17	1.63
H31.032.12.03		●	60	2.36	1.74
H31.032.12.04		●	65	2.56	1.74
H31.032.12.05		●	70	2.76	1.74
H31.032.12.06		●	75	2.95	1.95
H31.032.12.07		●	80	3.15	1.95
H31.032.12.08		●	85	3.35	1.95
H31.032.12.09		●	90	3.54	2.17
H31.032.12.10		●	95	3.47	2.17
H31.032.13.01		●	50	1.97	1.63
H31.032.13.02	●		55	2.17	1.63
H31.032.13.03	●		60	2.36	1.74
H31.032.13.04	●		65	2.56	1.74
H31.032.13.05	●		70	2.76	1.74
H31.032.13.06	●		75	2.95	1.95
H31.032.13.07	●		80	3.15	1.95
H31.032.13.08	●		85	3.35	1.95
H31.032.13.09	●		90	3.54	2.17
H31.032.13.10	●		95	3.47	2.17



C45: 560-710 N/mm²
1200 kN/m max.

H=86 | R=2.0 mm
H=3.39 | R=0.079 in



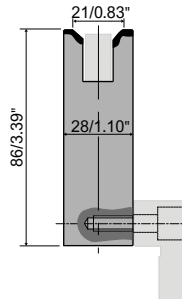
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H31.021.0

	L	R	mm	in	kg
H31.021.01.01			100	3.94	1.51
H31.021.02.01	●		50	1.97	1.13
H31.021.02.02		●	55	2.17	1.13
H31.021.02.03		●	60	2.36	1.21
H31.021.02.04		●	65	2.56	1.21
H31.021.02.05		●	70	2.76	1.21
H31.021.02.06		●	75	2.95	1.36
H31.021.02.07		●	80	3.15	1.36
H31.021.02.08		●	85	3.35	1.36
H31.021.02.09		●	90	3.54	1.51
H31.021.02.10		●	95	3.47	1.51
H31.021.03.01		●	50	1.97	1.13
H31.021.03.02	●		55	2.17	1.13
H31.021.03.03	●		60	2.36	1.21
H31.021.03.04	●		65	2.56	1.21
H31.021.03.05	●		70	2.76	1.21
H31.021.03.06	●		75	2.95	1.36
H31.021.03.07	●		80	3.15	1.36
H31.021.03.08	●		85	3.35	1.36
H31.021.03.09	●		90	3.54	1.51
H31.021.03.10	●		95	3.47	1.51

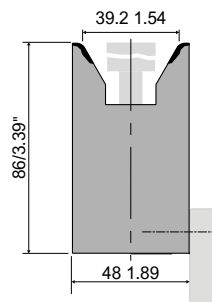


C45: 560-710 N/mm²
500 kN/m max.

H=86 | R=3.5 mm
H=3.39 | R=0.138 in

H31.040.1

	L	R	mm	in	kg
H31.040.11.01			100	3.94	2.66
H31.040.12.01	●		50	1.97	2.00
H31.040.12.02		●	55	2.17	2.00
H31.040.12.03		●	60	2.36	2.13
H31.040.12.04		●	65	2.56	2.13
H31.040.12.05		●	70	2.76	2.13
H31.040.12.06		●	75	2.95	2.39
H31.040.12.07		●	80	3.15	2.39
H31.040.12.08		●	85	3.35	2.39
H31.040.12.09		●	90	3.54	2.66
H31.040.12.10		●	95	3.47	2.66
H31.040.13.01		●	50	1.97	2.00
H31.040.13.02	●		55	2.17	2.00
H31.040.13.03	●		60	2.36	2.13
H31.040.13.04	●		65	2.56	2.13
H31.040.13.05	●		70	2.76	2.13
H31.040.13.06	●		75	2.95	2.39
H31.040.13.07	●		80	3.15	2.39
H31.040.13.08	●		85	3.35	2.39
H31.040.13.09	●		90	3.54	2.66
H31.040.13.10	●		95	3.47	2.66

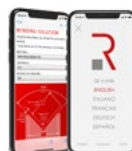


C45: 560-710 N/mm²
750 kN/m max.

H=86 | R=4 mm
H=3.39 | R=0.16 in



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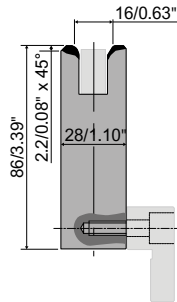
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H31.016.0



	L	R	mm	in	kg
H31.016.01.01			100	3.94	1.51
H31.016.02.01	●		50	1.97	1.13
H31.016.02.02		●	55	2.17	1.13
H31.016.02.03		●	60	2.36	1.21
H31.016.02.04		●	65	2.56	1.21
H31.016.02.05		●	70	2.76	1.21
H31.016.02.06		●	75	2.95	1.36
H31.016.02.07		●	80	3.15	1.36
H31.016.02.08		●	85	3.35	1.36
H31.016.02.09		●	90	3.54	1.51
H31.016.02.10		●	95	3.47	1.51
H31.016.03.01		●	50	1.97	1.13
H31.016.03.02	●		55	2.17	1.13
H31.016.03.03	●		60	2.36	1.21
H31.016.03.04	●		65	2.56	1.21
H31.016.03.05	●		70	2.76	1.21
H31.016.03.06	●		75	2.95	1.36
H31.016.03.07	●		80	3.15	1.36
H31.016.03.08	●		85	3.35	1.36
H31.016.03.09	●		90	3.54	1.51
H31.016.03.10	●		95	3.47	1.51



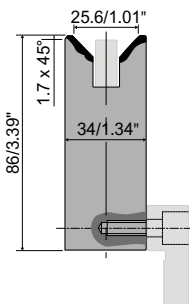
C45: 560-710 N/mm²
500 kN/m max.

H=86 | R=2 mm
H=3.39 | V=0.079 in

H31.024.0



	L	R	mm	in	kg
H31.032.11.01			100	3.94	1.81
H31.032.12.01	●		50	1.97	1.36
H31.032.12.02		●	55	2.17	1.36
H31.032.12.03		●	60	2.36	1.45
H31.032.12.04		●	65	2.56	1.45
H31.032.12.05		●	70	2.76	1.45
H31.032.12.06		●	75	2.95	1.63
H31.032.12.07		●	80	3.15	1.63
H31.032.12.08		●	85	3.35	1.63
H31.032.12.09		●	90	3.54	1.81
H31.032.12.10		●	95	3.47	1.81
H31.032.13.01		●	50	1.97	1.36
H31.032.13.02	●		55	2.17	1.36
H31.032.13.03	●		60	2.36	1.45
H31.032.13.04	●		65	2.56	1.45
H31.032.13.05	●		70	2.76	1.45
H31.032.13.06	●		75	2.95	1.63
H31.032.13.07	●		80	3.15	1.63
H31.032.13.08	●		85	3.35	1.63
H31.032.13.09	●		90	3.54	1.81
H31.032.13.10	●		95	3.47	1.81



C45: 560-710 N/mm²
750 kN/m max.

H=86 | R=2 mm
H=3.39 | V=0.079 in



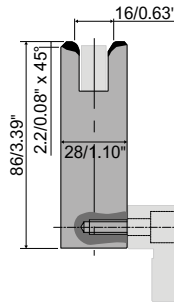
Rolleri **BLACKFIRE** is a surface treatment against steel oxidation. After such treatment tools become black and laser marking golden.



Rolleri **FREEZINC** is a surface treatment to avoid metal residues of galvanized steel or aluminium from remaining on tools during bending. Tools are also protected from oxidation

H31.016.1

	L	R	mm	in	kg
H31.016.11.01			100	3.94	1.55
H31.016.12.01	●		50	1.97	1.16
H31.016.12.02		●	55	2.17	1.16
H31.016.12.03		●	60	2.36	1.24
H31.016.12.04		●	65	2.56	1.24
H31.016.12.05		●	70	2.76	1.24
H31.016.12.06		●	75	2.95	1.40
H31.016.12.07		●	80	3.15	1.40
H31.016.12.08		●	85	3.35	1.40
H31.016.12.09		●	90	3.54	1.55
H31.016.12.10		●	95	3.47	1.55
H31.016.13.01		●	50	1.97	1.16
H31.016.13.02	●		55	2.17	1.16
H31.016.13.03	●		60	2.36	1.24
H31.016.13.04	●		65	2.56	1.24
H31.016.13.05	●		70	2.76	1.24
H31.016.13.06	●		75	2.95	1.40
H31.016.13.07	●		80	3.15	1.40
H31.016.13.08	●		85	3.35	1.40
H31.016.13.09	●		90	3.54	1.55
H31.016.13.10	●		95	3.47	1.55

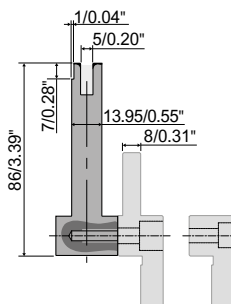


C45: 560-710 N/mm²
250 kN/m max.

H=86 | R=3.5 mm
H=3.39 | V=0.138 in

H31.005.0

	L	R	mm	in	
H31.005.01.01			100	3.94	1.07
H31.005.02.01	●		50	1.97	0.80
H31.005.02.02		●	55	2.17	0.80
H31.005.02.03		●	60	2.36	0.86
H31.005.02.04		●	65	2.56	0.86
H31.005.02.05		●	70	2.76	0.86
H31.005.02.06		●	75	2.95	0.96
H31.005.02.07		●	80	3.15	0.96
H31.005.02.08		●	85	3.35	0.96
H31.005.02.09		●	90	3.54	1.07
H31.005.02.10		●	95	3.47	1.07
H31.005.03.01		●	50	1.97	0.80
H31.005.03.02	●		55	2.17	0.80
H31.005.03.03	●		60	2.36	0.86
H31.005.03.04	●		65	2.56	0.86
H31.005.03.05	●		70	2.76	0.86
H31.005.03.06	●		75	2.95	0.96
H31.005.03.07	●		80	3.15	0.96
H31.005.03.08	●		85	3.35	0.96
H31.005.03.09	●		90	3.54	1.07
H31.005.03.10	●		95	3.47	1.07



42Cr: 900-1150 N/mm²
250 kN/m max.

H=86 | R=0.6 mm
H=3.39 | V=0.024 in



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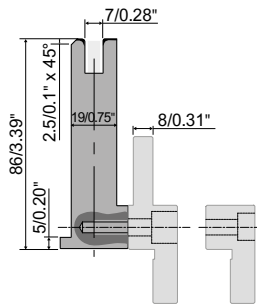


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H31.007.0



	L	R	mm	in	kg
H31.007.01.01			100	3.94	1.24
H31.007.02.01	●		50	1.97	0.93
H31.007.02.02		●	55	2.17	0.93
H31.007.02.03		●	60	2.36	0.99
H31.007.02.04		●	65	2.56	0.99
H31.007.02.05		●	70	2.76	0.99
H31.007.02.06		●	75	2.95	1.12
H31.007.02.07		●	80	3.15	1.12
H31.007.02.08		●	85	3.35	1.12
H31.007.02.09		●	90	3.54	1.24
H31.007.02.10		●	95	3.47	1.24
H31.007.03.01		●	50	1.97	0.93
H31.007.03.02	●		55	2.17	0.93
H31.007.03.03	●		60	2.36	0.99
H31.007.03.04	●		65	2.56	0.99
H31.007.03.05	●		70	2.76	0.99
H31.007.03.06	●		75	2.95	1.12
H31.007.03.07	●		80	3.15	1.12
H31.007.03.08	●		85	3.35	1.12
H31.007.03.09	●		90	3.54	1.24
H31.007.03.10	●		95	3.47	1.24



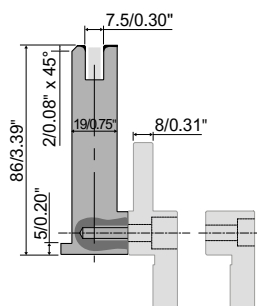
42Cr: 900-1150 N/mm²
500 kN/m max.

H=86 | R=1 mm
H=3.39 | V=0.039 in

H31.007.2



	L	R	mm	in	kg
H31.007.21.01			100	3.94	1.23
H31.007.22.01	●		50	1.97	0.92
H31.007.22.02		●	55	2.17	0.92
H31.007.22.03		●	60	2.36	0.98
H31.007.22.04		●	65	2.56	0.98
H31.007.22.05		●	70	2.76	0.98
H31.007.22.06		●	75	2.95	1.11
H31.007.22.07		●	80	3.15	1.11
H31.007.22.08		●	85	3.35	1.11
H31.007.22.09		●	90	3.54	1.23
H31.007.22.10		●	95	3.47	1.23
H31.007.23.01		●	50	1.97	0.92
H31.007.23.02	●		55	2.17	0.92
H31.007.23.03	●		60	2.36	0.98
H31.007.23.04	●		65	2.56	0.98
H31.007.23.05	●		70	2.76	0.98
H31.007.23.06	●		75	2.95	1.11
H31.007.23.07	●		80	3.15	1.11
H31.007.23.08	●		85	3.35	1.11
H31.007.23.09	●		90	3.54	1.23
H31.007.23.10	●		95	3.47	1.23



42Cr: 900-1150 N/mm²
500 kN/m max.

H=86 | R=2.5 mm
H=3.39 | V=0.098 in



Download Roller Bending App

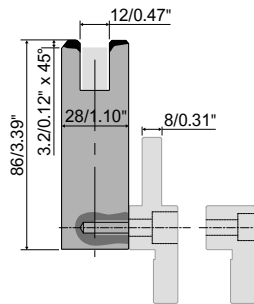
It contains not only a lot of interesting contents but also sheet metal development calculator and bending ruler. Furthermore this free app contains a useful tool to scan the QR codes in this catalogue.



The **Bending handbook** target is to supply practice and useful information to reach quickly the required result. A lot of examples, easy formulas and information which explain the proper attitude towards the bending process.

H31.013.0

	L	R	mm	in	kg
H31.013.01.01			100	3.94	1.77
H31.013.02.01	●		50	1.97	1.33
H31.013.02.02		●	55	2.17	1.33
H31.013.02.03		●	60	2.36	1.42
H31.013.02.04		●	65	2.56	1.42
H31.013.02.05		●	70	2.76	1.42
H31.013.02.06		●	75	2.95	1.59
H31.013.02.07		●	80	3.15	1.59
H31.013.02.08		●	85	3.35	1.59
H31.013.02.09		●	90	3.54	1.77
H31.013.02.10		●	95	3.47	1.77
H31.013.03.01		●	50	1.97	1.33
H31.013.03.02	●		55	2.17	1.33
H31.013.03.03	●		60	2.36	1.42
H31.013.03.04	●		65	2.56	1.42
H31.013.03.05	●		70	2.76	1.42
H31.013.03.06	●		75	2.95	1.59
H31.013.03.07	●		80	3.15	1.59
H31.013.03.08	●		85	3.35	1.59
H31.013.03.09	●		90	3.54	1.77
H31.013.03.10	●		95	3.47	1.77



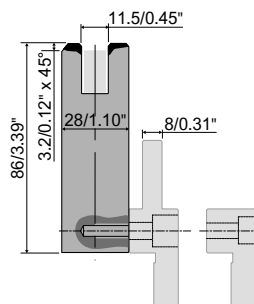
C45: 560-710 N/mm²
500 kN/m max.

H=86 | R=3 mm
H=3.39 | V=0.118 in



H31.012.0

	L	R	mm	in	kg
H31.012.01.01			100	3.94	1.76
H31.012.02.01	●		50	1.97	1.32
H31.012.02.02		●	55	2.17	1.32
H31.012.02.03		●	60	2.36	1.41
H31.012.02.04		●	65	2.56	1.41
H31.012.02.05		●	70	2.76	1.41
H31.012.02.06		●	75	2.95	1.58
H31.012.02.07		●	80	3.15	1.58
H31.012.02.08		●	85	3.35	1.58
H31.012.02.09		●	90	3.54	1.76
H31.012.02.10		●	95	3.47	1.76
H31.012.03.01		●	50	1.97	1.32
H31.012.03.02	●		55	2.17	1.32
H31.012.03.03	●		60	2.36	1.41
H31.012.03.04	●		65	2.56	1.41
H31.012.03.05	●		70	2.76	1.41
H31.012.03.06	●		75	2.95	1.58
H31.012.03.07	●		80	3.15	1.58
H31.012.03.08	●		85	3.35	1.58
H31.012.03.09	●		90	3.54	1.76
H31.012.03.10	●		95	3.47	1.76



C45: 560-710 N/mm²
500 kN/m max.

H=86 | R=1.5 mm
H=3.39 | V=0.059 in



Visit R3 dies section to discover all the standard dies compatible with Hämmerle-Bystronic press brakes.

Or you can request general bending tools catalogue.

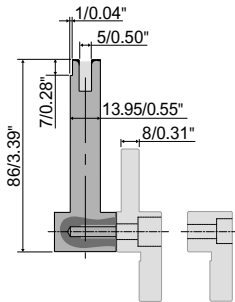


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H31.006.0



	L	R	mm	in	kg
H31.006.01.01			100	3.94	1.08
H31.006.02.01	●		50	1.97	0.81
H31.006.02.02		●	55	2.17	0.81
H31.006.02.03		●	60	2.36	0.86
H31.006.02.04		●	65	2.56	0.86
H31.006.02.05		●	70	2.76	0.86
H31.006.02.06		●	75	2.95	0.97
H31.006.02.07		●	80	3.15	0.97
H31.006.02.08		●	85	3.35	0.97
H31.006.02.09		●	90	3.54	1.08
H31.006.02.10		●	95	3.47	1.08
H31.006.03.01		●	50	1.97	0.81
H31.006.03.02	●		55	2.17	0.81
H31.006.03.03	●		60	2.36	0.86
H31.006.03.04	●		65	2.56	0.86
H31.006.03.05	●		70	2.76	0.86
H31.006.03.06	●		75	2.95	0.97
H31.006.03.07	●		80	3.15	0.97
H31.006.03.08	●		85	3.35	0.97
H31.006.03.09	●		90	3.54	1.08
H31.006.03.10	●		95	3.47	1.08



42Cr: 900-1150 N/mm²
350 kN/m max.

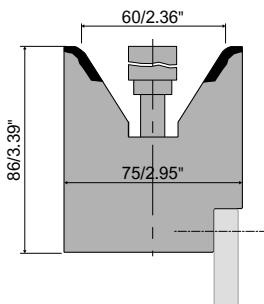
H=86 | R=2 mm
H=3.39 | V=0.079 in



H31.060.0



	L	R	mm	in	kg
H31.060.01.01			100	3.94	3.76
H31.060.02.01	●		50	1.97	2.82
H31.060.02.02		●	55	2.17	2.82
H31.060.02.03		●	60	2.36	3.01
H31.060.02.04		●	65	2.56	3.01
H31.060.02.05		●	70	2.76	3.01
H31.060.02.06		●	75	2.95	3.38
H31.060.02.07		●	80	3.15	3.38
H31.060.02.08		●	85	3.35	3.38
H31.060.02.09		●	90	3.54	3.76
H31.060.02.10		●	95	3.47	3.76
H31.060.03.01		●	50	1.97	2.82
H31.060.03.02	●		55	2.17	2.82
H31.060.03.03	●		60	2.36	3.01
H31.060.03.04	●		65	2.56	3.01
H31.060.03.05	●		70	2.76	3.01
H31.060.03.06	●		75	2.95	3.38
H31.060.03.07	●		80	3.15	3.38
H31.060.03.08	●		85	3.35	3.38
H31.060.03.09	●		90	3.54	3.76
H31.060.03.10	●		95	3.47	3.76



C45: 560-710 N/mm²
1500 kN/m max.

H=86 | R=8 mm
H=3.39 | V=0.315 in



Rolleri **BLACKFIRE** is a surface treatment against steel oxidation. After such treatment tools become black and laser marking golden.



Rolleri **FREEZINC** is a surface treatment to avoid metal residues of galvanized steel or aluminium from remaining on tools during bending. Tools are also protected from oxidation

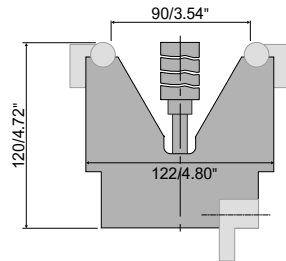
H31.090.01.01

	mm	in	kg
H31.090.01.01	100	3.94	8.15



C45: 560-710 N/mm²
1500 kN/m max.

H=120 | R=8 mm
H=4.72 | V=0.315 in



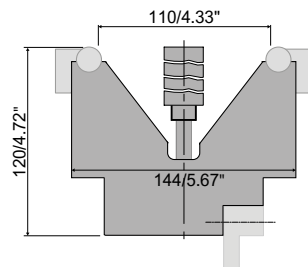
H31.110.01.01

	mm	in	kg
H31.110.01.01	100	3.94	8.83



C45: 560-710 N/mm²
1500 kN/m max.

H=120 | R=8 mm
H=4.72 | V=0.315 in



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English edition 1.0 | 2020

Rolleri S.p.A.

Via Artigiani · Loc. Cabina · 29020

Vigolzone (PC) · Italy

Tel. +39 0523 870905

Fax +39 0523 879030

www.rolleritools.com

sales@rolleri.it

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