

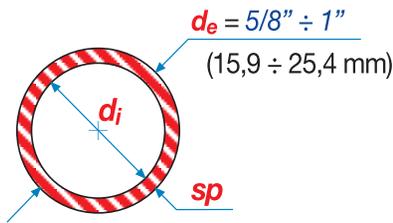
R/141-R/161

Mandrino allargatubi a passo multiplo per piastre tubiere di grosso spessore

Step by step tube expander for thick tube-sheets

Dudgeon évaseur à pas multiple pour plaques tubulaires de forte épaisseur

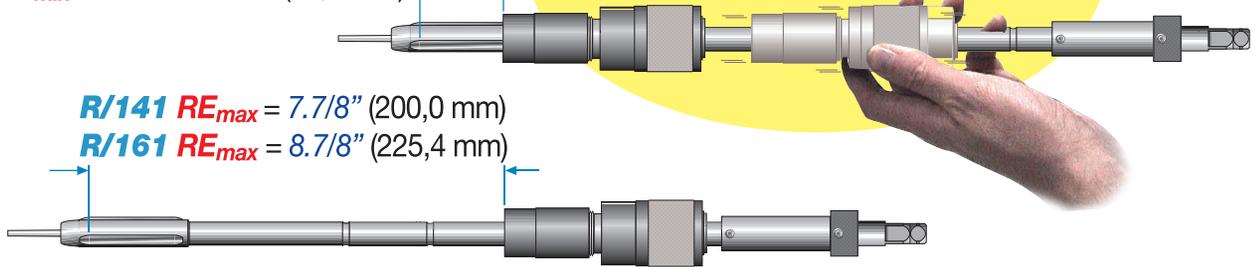
Selbsttätige Schnellstepp-Rohrwalze für Rohrböden mit großer Stärke



RE_{min} R/141 = 1" (25,4 mm)
 RE_{min} R/161 = 1.3/4" (44,5 mm)

R/141 RE_{max} = 7.7/8" (200,0 mm)
R/161 RE_{max} = 8.7/8" (225,4 mm)

Testa di battuta con dispositivo a scatto. Risparmio di tempo e riduzione degli errori!
Thrust collar with release device. Savings of time and reduction of errors!
Tête de butée avec dispositif à déclic. Economie de temps et réduction des erreurs!
Anschlagkopf mit Schnappvorrichtung. Zeitersparnis und Fehlerreduzierung!

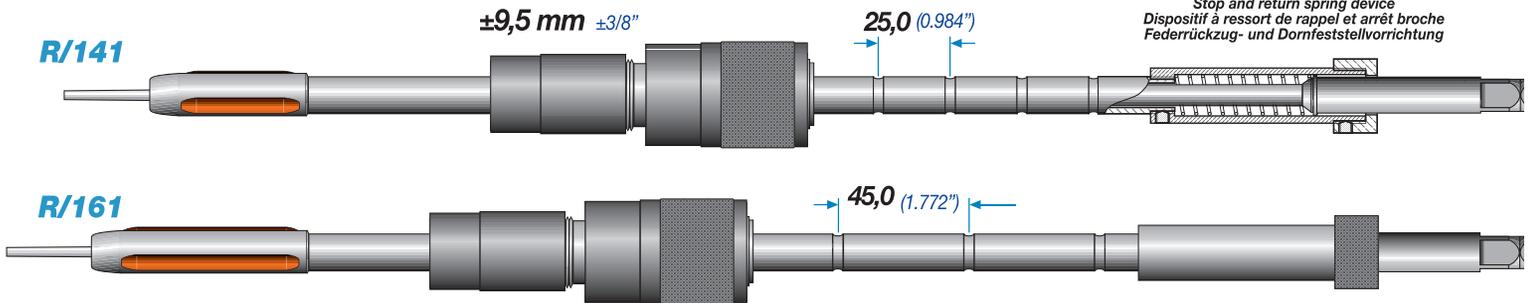


Regolabilità della testa filettata

Adjustment of the threaded thrust collar
Tête fileté réglable
Justierbarkeit des Kopfs mit Gewinde

Dispositivo a molla di ritorno e fermo spina

Stop and return spring device
Dispositif à ressort de rappel et arrêt broche
Federrückzug- und Dornfeststellvorrichtung



Codice d'esempio per ordinazione mandrini

Sample code for ordering tube expanders
Code d'exemple pour commande dudgeons
Bestellnr.: Bestellbeispiel Rohrwalze

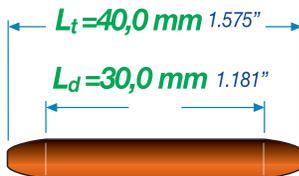
Testa di battuta

Thrust collar
Tête de butée
Anschlagkopf



d_e 3/4" - 20 B.W.G.

R/141

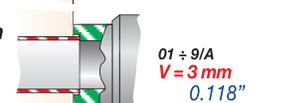


DLS ← R141.#-3/B

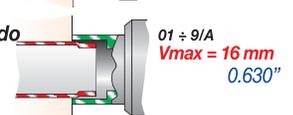
.0 a battuta piana
with plane shoulder
a butée plane
mit flachem Anschlag



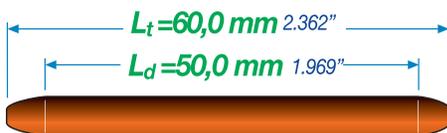
.1 con incavo a 3 mm
with 3 mm recess
avec entaille à 3 mm
mit 3 mm Eindrehung



.2 con incavo profondo
with deep recess
avec entaille profonde
mit tiefer Eindrehung



R/161



DLS ← R161.#-3/B

Tubo
Tube
Tube
Rohr

R/141 R/161

Mandrinatrici consigliate
Suggested rolling machines
Dudgeonneuses conseillées
Empfohlene Rohrwalzanlagen

de inches mm	sp B.W.G. inches mm	di		Espansione		Mandrino	Rulli	Mandrino	Rulli	Spina	inches mm	Elettriche		Pneumatiche	
		inches	mm	inches	mm	Cod.	Cod.	Cod.	Cod.	Cod.		R/141	R/161	Pneumatische	
5/8" (15,9)	14	0.083	2,11	0.459	11,7	0.437 ÷ 0.500	11,1 ÷ 12,7	R141.#-01/A	01/A-T	R161.#-01/A	01/A-V	6-01/A	F90 + MS/40 MS/60 M4/V	F90 + MS/40 M4/V	Macrol 750
	15	0.072	1,83	0.481	12,2	0.452 ÷ 0.523	11,5 ÷ 13,3	R141.#-02-M	02-T	R161.#-02-M	02-V	6-02 ÷ 02/A	Matex	Matex	
	16	0.065	1,65	0.495	12,6	0.472 ÷ 0.543	12,0 ÷ 13,8	R141.#-02/A-M	02/A-T	R161.#-02/A-M	02-A-V				
	17	0.058	1,47	0.509	12,9	0.492 ÷ 0.571	12,5 ÷ 14,5	R141.#-03-M	03-T	R161.#-03-M	03-V	6-03 ÷ 1	F90 + MP/2 MS/60 M4/V	F90 + MP/1 MS/60 M4/V	Minirol 500 Macrol 1350
	18	0.049	1,24	0.527	13,4	0.512 ÷ 0.590	13,0 ÷ 15,0	R141.#-04-M	04-T	R161.#-04-M	04-V				
	19	0.042	1,07	0.541	13,7	0.531 ÷ 0.610	13,5 ÷ 15,5	R141.#-1-M	1-1/A-T	R161.#-1-M	1-1/A-V				
	20	0.035	0,89	0.555	14,1										
22	0.028	0,71	0.569	14,5											
3/4" (19,0)	10	0.134	3,40	0.482	12,2	0.452 ÷ 0.523	11,5 ÷ 13,3	R141.#-02	02-T	R161.#-02	02-V	6-02-02/A	F90 + M4/V MS/40 M4/L	F90 + M4/V MS/30 M4/L	Macrol 450
	11	0.120	3,05	0.510	12,9	0.492 ÷ 0.571	12,5 ÷ 14,5	R141.#-02/A	02/A-T	R161.#-02/A	02/A-V	6-03 ÷ 1			
	12	0.109	2,77	0.532	13,4	0.512 ÷ 0.590	13,0 ÷ 15,0	R141.#-03	03-T	R161.#-03	03-V				
	13	0.095	2,41	0.560	14,2	0.531 ÷ 0.610	13,5 ÷ 15,5	R141.#-04	04-T	R161.#-04	04-V	6-1/A	Matex	Matex	
	14	0.083	2,11	0.584	14,8	0.551 ÷ 0.639	14,0 ÷ 16,2	R141.#-1	1-1/A-T	R161.#-1	1-1/A-V				
	15	0.072	1,83	0.606	15,3	0.570 ÷ 0.669	14,5 ÷ 17,0	R141.#-1/A	1-1/A-T	R161.#-1/A	1-1/A-V				
	16	0.065	1,65	0.620	15,7	0.590 ÷ 0.689	15,0 ÷ 17,5	R141.#-2	2-T	R161.#-2	2-V				
	17	0.058	1,47	0.634	16,0			R141.#-2/A	2/A-T	R161.#-2/A	2/A-V	6-2 ÷ 3/B	F90 + M4/V MS/60 MP/1	F90 + M4/L M4/V MS/60	Macrol 750
	18	0.049	1,24	0.652	16,5	0.610 ÷ 0.709	15,5 ÷ 18,0	R141.#-3	3-T	R161.#-3	3-V				
	19	0.042	1,07	0.666	16,8	0.630 ÷ 0.728	16,0 ÷ 18,5	R141.#-3/A	3/A-T	R161.#-3/A	3/A-V				
20	0.035	0,89	0.680	17,2	0.650 ÷ 0.748	16,5 ÷ 19,0	R141.#-3/B	3/B-T	R161.#-3/B	3/B-V					
22	0.028	0,71	0.694	17,6											
7/8" (22,2)	10	0.134	3,40	0.607	15,4	0.570 ÷ 0.669	14,5 ÷ 17,0	R141.#-2-M	2-T	R161.#-2-M	2-V	6-2 ÷ 3/B	F90 + M4/V MS/40 M4/L	F90 + M4/V MS/30 M4/L	Macrol 450
	11	0.120	3,05	0.635	16,1	0.610 ÷ 0.709	15,5 ÷ 18,0	R141.#-3-M	3-T	R161.#-3-M	3-V				
	12	0.109	2,77	0.657	16,6	0.630 ÷ 0.728	16,0 ÷ 18,5	R141.#-3/A-M	3/A-T	R161.#-3/A-M	3/A-V				
	13	0.095	2,41	0.685	17,4	0.650 ÷ 0.748	16,5 ÷ 19,0	R141.#-3/B-M	3/B-T	R161.#-3/B-M	3/B-V	6-5 ÷ 6	Matex	Matex	
	14	0.083	2,11	0.709	18,0	0.681 ÷ 0.799	17,3 ÷ 20,3	R141.#-5-M	5-T	R161.#-5-M	5-V				
	15	0.072	1,83	0.731	18,5	0.700 ÷ 0.812	17,8 ÷ 20,8	R141.#-5/A-M	5/A-T	R161.#-5/A-M	5/A-V				
	16	0.065	1,65	0.745	18,9										
	17	0.058	1,47	0.759	19,2	0.720 ÷ 0.838	18,3 ÷ 21,3	R141.#-6-M	6-T	R161.#-6-M	6-V				
	18	0.049	1,24	0.777	19,7										
	19	0.042	1,07	0.791	20,0										
20	0.035	0,89	0.805	20,4	0.748 ÷ 0.866	19,0 ÷ 22,0	R141.#-7-M	7-T	R161.#-7-M	7-V	6-7 ÷ 8/A	Matex	Matex		
22	0.028	0,71	0.819	20,8											
1" (25,4)	8	0.165	4,19	0.670	17,0	0.650 ÷ 0.748	16,5 ÷ 19,0	R141.#-3/B-S	3/B-T	R161.#-3/B-S	3/B-V	6-2 ÷ 3/B	F90 + M4/V MS/30 M4/L	F90 + M4/V M4/L	(R/141) Macrol 450
	9	0.148	3,76	0.704	17,9	0.681 ÷ 0.799	17,3 ÷ 20,3	R141.#-5	5-T	R161.#-5	5-V	6-5 ÷ 6			
	10	0.134	3,40	0.732	18,6	0.700 ÷ 0.812	17,8 ÷ 20,8	R141.#-5/A	5/A-T	R161.#-5/A	5/A-V				
	11	0.120	3,05	0.760	19,3	0.720 ÷ 0.838	18,3 ÷ 21,3	R141.#-6	6-T	R161.#-6	6-V	6-7 ÷ 8/A	Matex	Matex	
	12	0.109	2,77	0.782	19,8	0.748 ÷ 0.866	19,0 ÷ 22,0	R141.#-6/A	6/A-T	R161.#-6/A	6/A-V				
	13	0.095	2,41	0.810	20,6	0.767 ÷ 0.886	19,5 ÷ 22,5	R141.#-7	7-T	R161.#-7	7-V				
	14	0.083	2,11	0.834	21,2	0.807 ÷ 0.925	20,5 ÷ 23,5	R141.#-7/A	7/A-T	R161.#-7/A	7/A-V				
	15	0.072	1,83	0.856	21,7										
	16	0.065	1,65	0.870	22,1	0.827 ÷ 0.964	21,0 ÷ 24,5	R141.#-8	8-T	R161.#-8	8-V	6-9 ÷ 10	F90 + M4/V MS/60 M4/L	F90 + M4/V MS/40 M4/L	(R/141) Macrol 750
	17	0.058	1,47	0.884	22,4										
	18	0.049	1,24	0.902	22,9	0.846 ÷ 0.984	21,5 ÷ 25,0	R141.#-8/A	8/A-T	R161.#-8/A	8/A-V				
	19	0.042	1,07	0.916	23,2										
	20	0.035	0,89	0.930	23,6	0.866 ÷ 1.004	22,0 ÷ 25,5	R141.#-9	9-T	R161.#-9	9-V				
	22	0.028	0,71	0.944	24,0										

Consigliate
Suggested
Conseillées
Empfehlung

Possibili
Possible
Possibles
Variationsmöglichkeiten

MAUS
ITALIA

TE-45