



COLD ROLLING CASSETTES

DEM ROLLING CASSETTES

DESCRIPTION

Cold Rolling Cassettes are most commonly used for one or two reduction passes for the production of ribbed wire in concrete applications and the construction industry.

The latest DEM design has developed a unit with a very rigid frame and an easy maintenance concept. The unit allows roll replacement without opening the housing. It is provided with a reduction gear box (typical of DEM patented design since the first unit produced) with high ratio to allow the roll gap adjustment also under load and with a digital counter for quick roll repositioning. Carbide wear-proof guides are installed to protect the main parts from wire wearing. Roll gap offset alignment is possible on each roll individually. Provided with cooling and lubrication circuits.



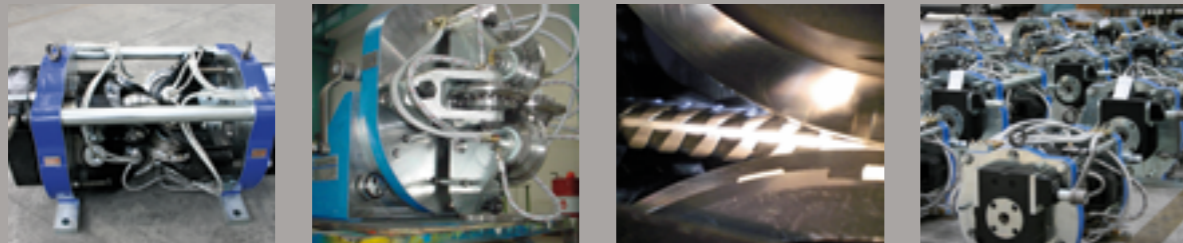
CASSETTE WORKING RANGE

APPLICATIONS

Low, medium and high carbon steel smooth wires.
Low, medium and high carbon steel ribbed (reinforced or indented) wires.
Copper, aluminum, and titanium wires.
Ropes, PC pre-stressed wires and special section wires.

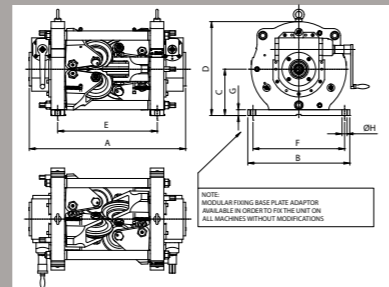
WIRE		ROLLS		ROLL HOLDERS		CASSETTE MODELS
Inlet max	Outlet min	Diameter max/min	Thickness	Roll holder	Shaft DD	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
12	3	125/170	15/20	82-15/20	25/26	CLF-125-DD-RR-F
16	3.5	150/123	15/20	90/82-15/20	26/30	CLF-150-DD-RR-F
20	8	180/150	20/25	110-20/25	40	CLF-180-DD-RR-F
24	10	240/200	30/25	150-30/25	70	CLF-240-DD-RR-F

Notes:
DD -> standardized shaft dimensions
RR -> roll configuration, 0+2, 2+2, 0+3, 3+3, 0+4, 4+4 possible



CASSETTE GENERAL DRAWING

Model	A	B	C	D	E	F	G	H
CLF-125-F	513	380	170	340	353	350	20	Ø 20
CLF-150-F	674	440	200	405	430	395	25	Ø 22
CLF-180-F	810	520	235	475	513	470	30	Ø 27
CLF-240-F	1246	700	320	645	760	630	40	Ø 35



EXAMPLES OF CASSETTE INSTALLATIONS



DEM ROLLING CASSETTE ROLLS

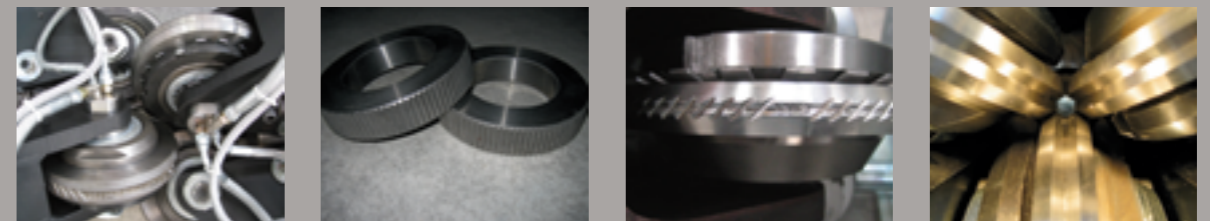


DIMENSIONS	ROLL SIZE	INNER DIAMETER	THICKNESS
	[mm]	[mm]	[mm]
	123/125	82	15/20
	140/150	90	15/20
	180	110	20/25
	240	150	25/30

ROLL WORKING RANGE

SMOOTH WIRE ROLLS						REINFORCED WIRE ROLLS					
IN Wire rod	Oval reducing rolls	Round reducing roll	Oval reducing rolls	Sizing reducing rolls	OUT Smooth wire	IN Wire rod	Oval reducing rolls	Round reducing rolls	Forming rolls	Profiling rolls	OUT Ribbed wire
4	RO 0	RT 0	RO 0	CA 3.0	3.0	4	RO 0	RT 0	FO 0	PR 3.0	3.0
4.5	RO 0	RT 0	RO 0	CA 3.5	3.5	4.5	RO 0	RT 0	FO 0	PR 3.5	3.5
5.5	RO 1	RT 1	RO 0	CA 4.0	4.0	5.5	RO 1	RT 1	FO 1	PR 4.0	4.0
5.5	RO 1	RT 1	RO 1	CA 4.5	4.5	5.5	RO 1	RT 1	FO 1	PR 4.5	4.5
6	RO 2	RT 2	RO 1	CA 5.0	5.0	6	RO 2	RT 2	FO 1	PR 5.0	5.0
7	RO 2	RT 2	RO 1	CA 5.5	5.5	7	RO 2	RT 2	FO 1	PR 5.5	5.5
7.5	RO 3	RT 3	RO 2	CA 6.0	6.0	7.5	RO 3	RT 3	FO 2	PR 6.0	6.0
8	RO 3	RT 3	RO 2	CA 6.5	6.5	8	RO 3	RT 3	FO 2	PR 6.5	6.5
8.5	RO 4	RT 4	RO 3	CA 7.0	7.0	8.5	RO 4	RT 4	FO 2	PR 7.0	7.0
9	RO 4	RT 4	RO 3	CA 7.5	7.5	9	RO 4	RT 4	FO 3	PR 7.5	7.5
10	RO 5	RT 5	RO 4	CA 8.0	8.0	10	RO 5	RT 5	FO 3	PR 8.0	8.0
11	RO 5	RT 5	RO 4	CA 8.5	8.5	11	RO 5	RT 5	FO 3	PR 8.5	8.5
11	RO 5	RT 5	RO 5	CA 9.0	9.0	11	RO 5	RT 5	FO 3	PR 9.0	9.0
12	RO 6	RT 6	RO 5	CA 9.5	9.5	12	RO 6	RT 6	FO 4	PR 9.5	9.5
12	RO 6	RT 6	RO 5	CA 10.0	10.0	12	RO 6	RT 6	FO 4	PR 10.0	10.0
13	RO 6	RT 6	RO 5	CA 10.5	10.5	13	RO 6	RT 6	FO 4	PR 10.5	10.5
14	RO 7	RT 7	RO 6	CA 11.0	11.0	14	RO 7	RT 7	FO 4	PR 11.0	11.0
14	RO 7	RT 7	RO 6	CA 11.5	11.5	14	RO 7	RT 7	FO 4	PR 11.5	11.5
15	RO 7	RT 7	RO 6	CA 12.0	12.0	15	RO 7	RT 7	FO 4	PR 12.0	12.0
16	-	-	RO 7	CA 14.0	14.0	16	-	-	FO 5	PR 14.0	14.0

Note: rolls in light grey cells are 20 mm thick all others are 15 mm



CASSETTE ROLL HOLDERS



DIMENSIONS	ROLL SIZE	INNER DIAMETER	THICKNESS	SHAFT
	[mm]	[mm]	[mm]	[mm]
	123/125	82	15/20	25/26
	140/150	90	15/20	26/30
	180	110	20/25	40
	240	150	25/30	70

DEM CASSETTE OPTIONAL EQUIPMENT



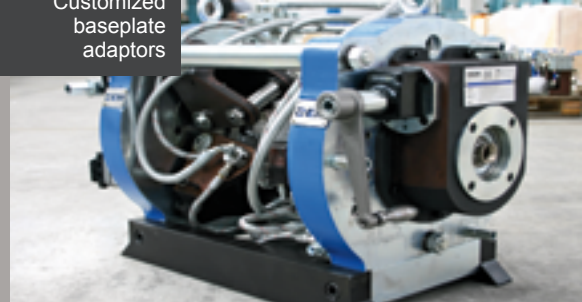
Roll holder disassembling unit



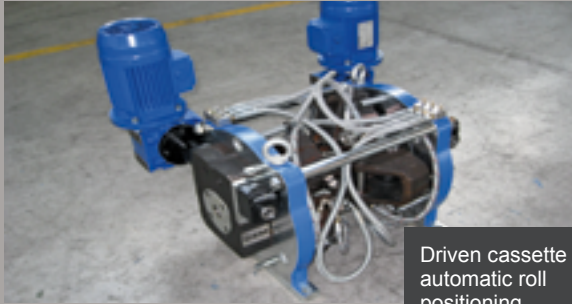
Complete family of cassettes



Optical device for roll alignment



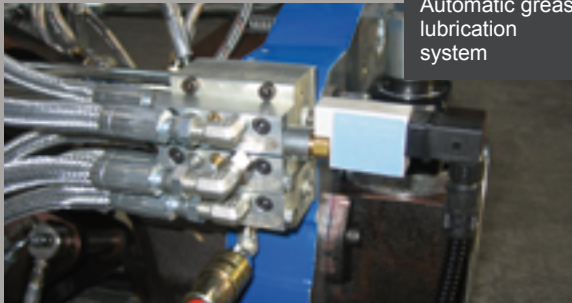
Customized baseplate adaptors



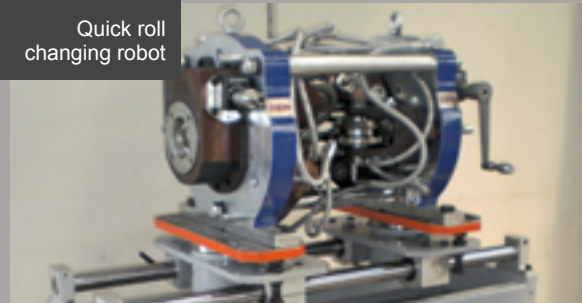
Driven cassette automatic roll positioning



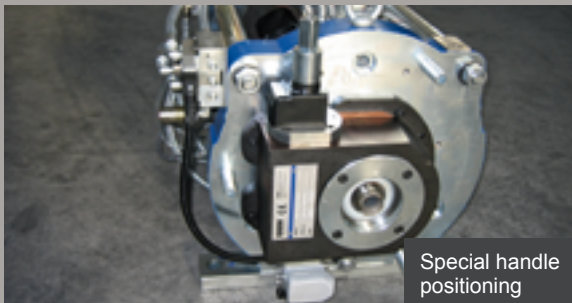
Cassette housings and dust collector



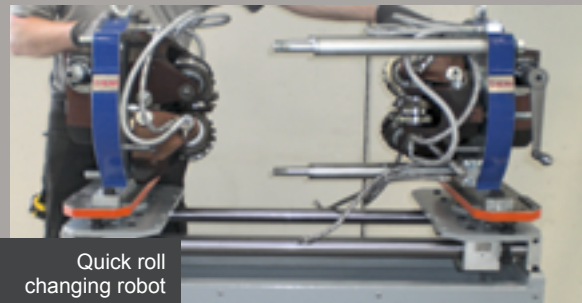
Automatic grease lubrication system



Quick roll changing robot



Special handle positioning



Quick roll changing robot

DEM
WIRE ROLLING TECHNOLOGY

AN EVG
GCR COMPANY
EURODRAW

DEM Costruzioni Speciali srl
Viale del Lavoro, 23 Z.I.U.
I-33050 Pavia di Udine - ITALY
Phone (+39) 0432 655393
Fax (+39) 0432 655484

Web: www.demgroup.com
e-mail: info@demgroup.com